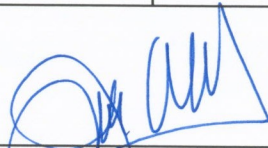


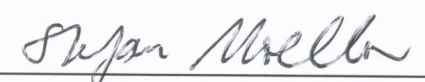
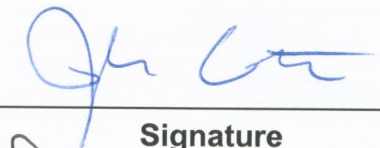
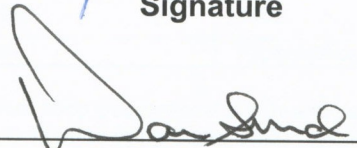




<b>LCLS Room Data Sheet #</b>	<b>1.9-1049</b>	<b>Central Lab Office Complex (CLOC) - Mechanical &amp; Electrical Engineering Pod</b>	<b>Revision 2</b>
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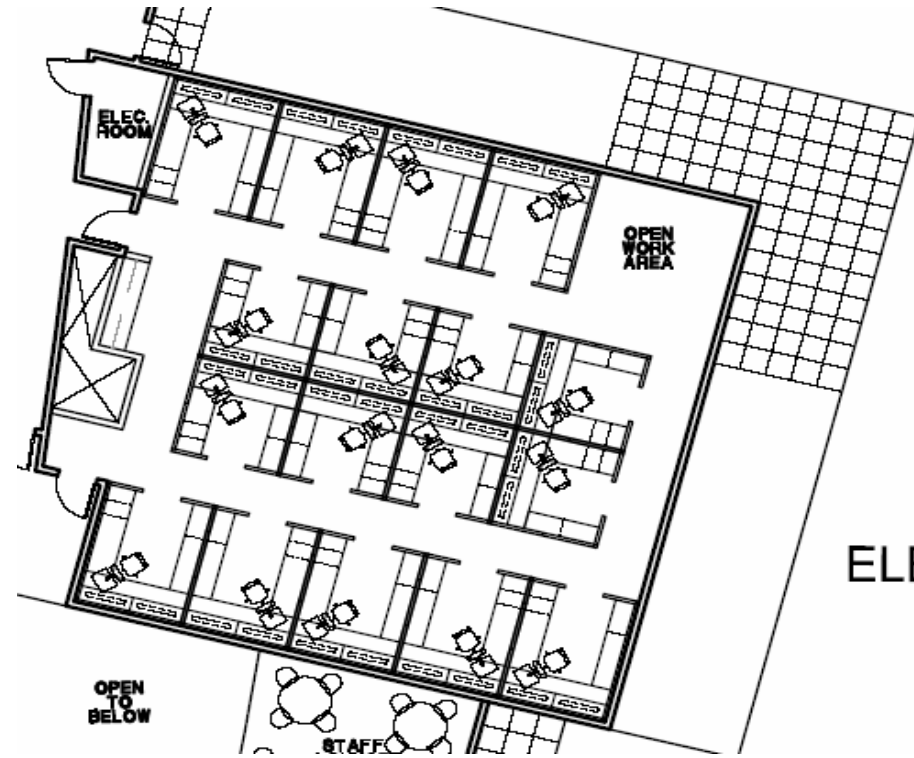
Javier A. Sevilla Owner / Editor		8/12/05
	<b>Signature</b>	<b>Date</b>
Jim Welch Conventional Facilities System Physicist		8/15/05
	<b>Signature</b>	<b>Date</b>
David Saenz Conventional Facilities System Manager		8/12/05
	<b>Signature</b>	<b>Date</b>
Stefan Moeller X-R End stations WBS Manager		08/12/05
	<b>Signature</b>	<b>Date</b>
John Arthur Photon Beam System Manager		8-12-05
	<b>Signature</b>	<b>Date</b>
Darren Marsh Quality Assurance Manager		8/16/05
	<b>Signature</b>	<b>Date</b>

**REVISION INFORMATION**

Rev 2- Updated floor plan, deleted mechanical humidification, updated Standards and Codes. General corrections

**ROOM DATA SHEETS**

FACILITY COMPONENT	CLOC MECHANICAL & ELECTRICAL POD - ROOM DATA SHEET							
	<b>Name of Building</b>	Mechanical and electrical Engineering Pod						
	<b>Organization or Department</b>	SLAC, Stanford University -						
	<b>Net area</b>	139.0 sq. meters 1500sf						
	<b>Critical dimensions</b>	<table border="1"> <tr> <td><b>H:</b></td> <td>varies</td> </tr> <tr> <td><b>W:</b></td> <td>varies</td> </tr> <tr> <td><b>L:</b></td> <td>varies</td> </tr> </table>	<b>H:</b>	varies	<b>W:</b>	varies	<b>L:</b>	varies
<b>H:</b>	varies							
<b>W:</b>	varies							
<b>L:</b>	varies							
	<b>Hours of operation</b>	Normal business hours						
	<b>Users/Occupancy</b>	Workers within the CLOC that are assigned private "systems-furniture" cubicle workstations. Occupancy Group "B"						
	<b>Building orientation</b>	Mechanical and Electrical Engineering pod is located on the Nouttheast corner of the third floor.						
<b>FUNCTIONAL OBJECTIVE</b>	Provide conveniently located office space with maximum flexibility for employees working in the CLOC.							
<b>PLANNING CONSIDERATIONS &amp; CRITICAL FACTORS</b>	1 - Office space in the Mechanical & Electrical pod shall consist of (8) 8'x10' systems furniture workstations and (8) 8'x8' systems furniture workstations							
<b>FINISHES</b>	Walls	Utilize systems furniture						
	Ceiling	Exposed						
	Floor	Carpet						
	Base	none						
	Doors	may use barn doors						
	Fenestration	none						
	Acoustical	Typical office decibel level required NC less 35 Excessive white noise is not desired.						
<b>APPLICABLE STANDARDS</b>	29 CFR Part 1910 Occupational Safety and Health Standards Dept of Labor, 29 CFR Part 1926 Safety and Health Regulations for Constructions Dept of Labor, Uniform Building Code (UBC) 1997 including appendixes, National Electric Code (NEC) 2002, Uniform Mechanical Code (UMC) 2003 including appendixes, Uniform Plumbing Code (UPC) 2003 including appendixes, Uniform Fire Code (UFC) 2003 including appendixes, California Code of Regulations Title 8 Industrial Safety, Title 19 Public Safety, NFPA 70 National Fire Codes, National electrical Safety Code ANSI C2, Occupational Safety and Health Act (OSHA), General Services Administration 41 CFR part 101-19, American with Disabilities Act, Environmental Protection Agency 40 CFR Parts 264 and 265, SLAC Environmental Safety & Health Manual, General Industrial Activities Storm Water Permit (SLAC Permit), NFPA 101 life Safety Code, Title 24-energy Code, DOE standard 10 CFR Part 435, ASHRAE/IES Standards 90.1, NFPA Standard 13 and SLAC Fire Marshal requirements, LCLS Cabling Standard, SLAC LOTO							



## MECHANICAL & ELECTRICAL ENGINEERS OFFICE POD

MECHANICAL REQUIREMENTS	HVAC	<input checked="" type="checkbox"/>	Heating system	Temp: 70 degrees F ± 3 degree F	<input type="checkbox"/>	Mechanical humidification
		<input checked="" type="checkbox"/>	Air conditioning	Temp: 74 degrees F ± 3 degree F	<input type="checkbox"/>	Direct exhaust system - for laser table experiment enclosures only.
		<input type="checkbox"/>	Direct supply		<input type="checkbox"/>	Positive pressure system
		<input type="checkbox"/>	Indirect supply		<input type="checkbox"/>	Negative pressure system
		<input type="checkbox"/>	Smoke control system		<input type="checkbox"/>	Standard registers
		<input checked="" type="checkbox"/>	Temperature sensors connected to SLAC's DDC systems		<input type="checkbox"/>	Requirement for gases
	Communications	<input checked="" type="checkbox"/>	Telephone- 2 phone lines/location-		<input type="checkbox"/>	PA speakers
		<input checked="" type="checkbox"/>	Dataport- 2 jacks/location-		<input type="checkbox"/>	PA station
		<input type="checkbox"/>	Payphone		<input type="checkbox"/>	CCTV camera
		<input checked="" type="checkbox"/>	Fire alarm station		<input type="checkbox"/>	CCTV monitor
		<input type="checkbox"/>	Intercom			



	<b>Plumbing/Fire Protection</b>	<input type="checkbox"/>	Hot water system	<input type="checkbox"/>	Electric watercooler
		<input type="checkbox"/>	Cold water system	<input type="checkbox"/>	Drinking fountain
		<input type="checkbox"/>	Tempered water	<input checked="" type="checkbox"/>	Smoke detection system
		<input type="checkbox"/>	Waste drain	<input checked="" type="checkbox"/>	Wet Sprinkler System
		<input type="checkbox"/>	Floor drain	<input type="checkbox"/>	Eye wash / Safety shower
		<input type="checkbox"/>	Trench drain		
	<b>Comments:</b> electric watercooler shall be located in common space conveniently located on the floor level, one per floor				
<b>ELECTRICAL REQUIREMENTS</b>	<b>Power supply</b>	<input type="checkbox"/>	208 volts, 3 phase outlets	<input type="checkbox"/>	Uninterrupted power supply
		<input checked="" type="checkbox"/>	110V 1ph, 20 amps outlets	<input type="checkbox"/>	Special electric Type:
		<input type="checkbox"/>	Emergency power		
	<b>Comments:</b>				
	<b>Lighting</b>	<input checked="" type="checkbox"/>	Light fixtures - 2 x 4 recessed florescent lighting.	<input type="checkbox"/>	Remote lighting control
		<input type="checkbox"/>	Fixture type I: Downlight	<input checked="" type="checkbox"/>	Light switches
		<input type="checkbox"/>	Fixture type II: Bollard (exterior)	<input checked="" type="checkbox"/>	Lighting level FC: <b>typ. office</b>
		<input checked="" type="checkbox"/>	Emergency lighting		
	<b>Comments:</b> 1- Utilize standard Illuminating Engineering Society (IES) guidelines				
<b>RADIATION/SEISMIC/VIBRATIONS ISSUES</b>	<b>Comments:</b> 1- All equipment and systems are to be seismically braced and restrained SLAC Seismic Standards				
<b>SPECIAL REQUIREMENTS FOR EQUIPMENT</b>	<b>Comments:</b>				
<b>CHEMICALS / GASES</b>		<b>CHEMICALS</b>		<b>SPECIALTY GASES</b>	
		<b>#</b>	<b>Chemical Type</b>	<b>Quantity</b>	<b>#</b>
					<b>Gas Type</b>
					<b>Quantity</b>
<b>ENVIRONMENTAL NEEDS</b>					