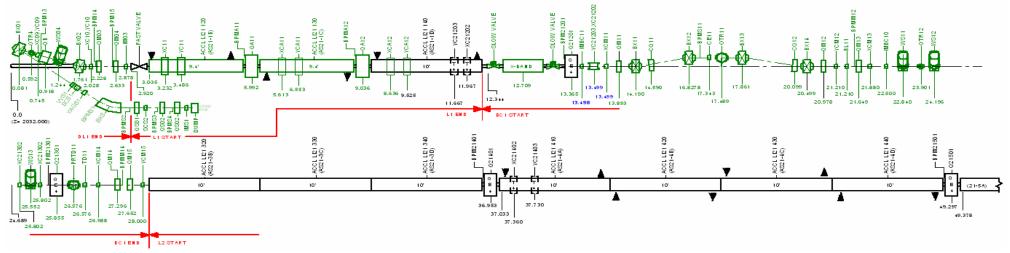
11-1 (2	Stanford Linear Accelerator Center					
LUL	Stanford Synchrotron Radiation Laboratory					
LCLS Room Data Sheet #	1.9-1003	Linac	Revision 7			
Philip G Cutino	At lati	Feb. 27, 2006				
Owner / Editor	Signature	Date				
Jim Welch	Wille	3/9/06				
Conventional Facilities System Physicist	Signature	<sup>7</sup> Date				
David Saenz Conventional Facilities	fund p. McDonel fo Signature	92 <u>3/9/06</u> Date				
System Manager		,				
Eric Bong Injector/ Linac Manager	Signature	Date				
injector/ Endo manager						
Dave Schultz	Signature	3/9/06 Date	-			
E-Beam System Manage						
Darren Marsh	Signature	3 yo 6	- 11			
Quality Assurance Manager	Signature	Date				
REVISION INFORMATION			]			

RDS 1.9-1003-R1 Linac

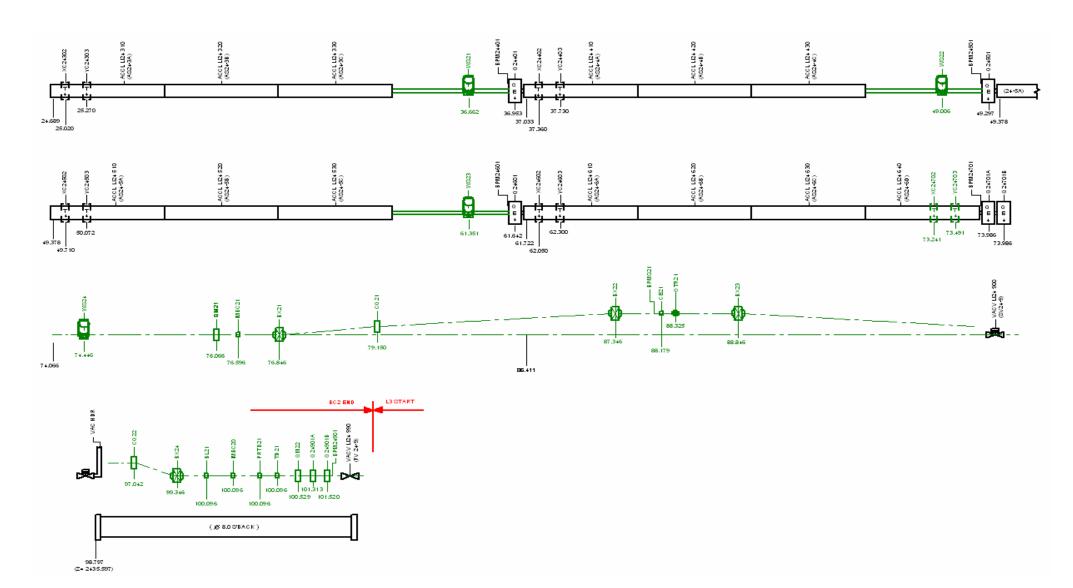
1 of 5 Updated: February 27, 2006

## **ROOM DATA SHEETS**

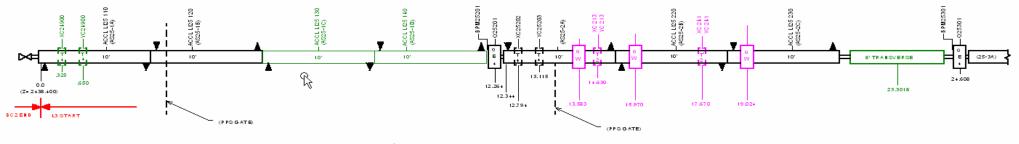
FACILITY COMPONENT	LINAC - ROOM DATA SHEET						
	Name of Building	Linac Klystron Gallery (Building 002) and Linac Housing (Building 001)					
	Organization or Department	SLAC, Stanford University					
	Hours of operation	Housing is locked 24/7/365 (periodic maintenance only) The Gallery is available for maintenace during operations					
	Users/Occupancy	No occupancy in housing during normal operation of the facility					
	Application Notes	The Linac is an existing facility being upgraded for LCLS. This Room Data Sheet applies only to the additions and upgrades associated with LCLS. The upgrades are limited to the final 1/3 of the 3 kilometer Linac, sectors 20 through 30					
PLANNING CONSIDERATIONS & CRITICAL FACTORS	Installation of upgrades must be coordinated with ongoing operations						
APPLICABLE STANDARDS	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) 1997 including appendixes, Uniform Fire Code (UFC) 1997 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), 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 Standards-Energy Code, DOE standard 10 CFR Part 435, ASHRAE/IES Standards 90.1, NFPA Standard 13 and SLAC Fire Marshal requirements, LCLS Cabling Standard and SLAC LOTO						
VIEWS & SCHEMATICS							
	Schematics are for reference only. New equipment is indicated in green. See the following Schematic Diagrams for details:						
	Sector 21: SD-380-030-021   Sector 24: SD-380-030-024   Sector 25: SD-380-030-025   Sector 27: SD-380-030-027   Sector 28: SD-380-030-028   Sector 29: SD-380-030-029						



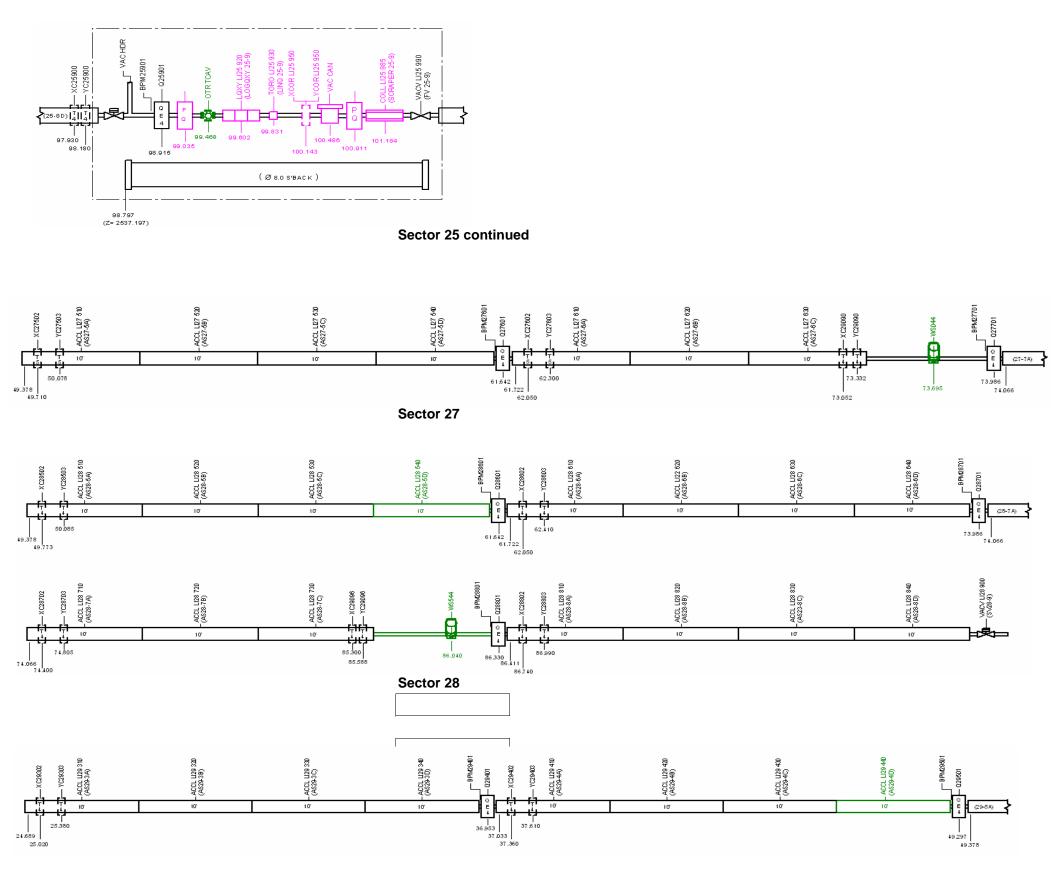




Sector 24







Sector 29

MECHANICAL REQUIREMENTS	Process Water (LCW)	-	Change in	Change in	Change in	Air	New Inj.
			Waveguide	Klystron	Accelerater		Water Sys.
		Sector	Water (GPM)	Water (GPM)	Water (GPM)	(CFM)	(GPM)
		20	0.00	13.66	(90.00)	0.00	42.80
		21	(19.50)		(38.80)	0.80	
		22	0.00	10.60	0.00	0.00	
		23	0.00		0.00	0.00	
		24	52.00		(133.00)	0.60	
		25	13.00		13.00	0.00	
		26	0.00	0.00	0.00	0.00	
		27	0.00		(13.00)	0.00	
		28	0.00		0.00	0.00	
		29	0.00	0.00	0.00	0.00	
		30	0.00		0.00	0.00	
ELECTRICAL REQUIREMENTS	AC Power		Change in	Change in			
			<sup>≎</sup> 480 Volt	208/120 Volt			
		Sector	Power (kW)	Power (kW)			
		20	1500.00	300.00			
		21	0.00	16.00			
		22	0.00	16.00			
		23	0.00	16.00	_		
		24	107.00	124.00	_		
		25	30.00	46.00			
		26	0.00	16.00	-		
		27	0.00	16.00	1		
		28	0.00	16.00			
		29	0.00	16.00	-		
		30	0.00	16.00	] _		