

Master Document

	General Comments	Disc.	Response	Status	Disposition
1	Include temporary vertical alignment tubes in Undulator Hall and X-Ray Tunnel.	A	Comply	Complete	See SHT. A-8
2	Provide project key plan on every applicable sheet	A	Comply	Complete	
3	Indicate scale in only location per sheet	A	Comply	Complete	As Appropriate
4	Increase line spacing in title block	A	Comply	Complete	
5	Include an overall demolition plan	A	Comply	Complete	
6	Correct line weight and line type so that new is clearly distinguishable from existing to remain, to be demolished, etc	A	Comply	Complete	
7	Show only zero degree line on design (perhaps layout other potential future beam lines on one separate sheet indicating "Future Expansion...")	A	Comply	Complete	
8	Complete title block as per previous instructions	A	Comply	Complete	
9	Provide drawing number (side layout)	A	Comply	Complete	
10	Relocate spires letter block above title block	A	Comply	Complete	
11	Provide civil drawings	A	Comply	Complete	
12	Provide landscape drawings	A	Comply	Complete	
13	Provide structural drawings	A		Complete	Structural drawings will be provided in Title II

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Master Document

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		S	Comply. Structural drawings will be added whenever completed. For Title I, structural items will be shown on architectural & tunneling drawings. Structural will provide pile plan for Bean Transfer Hall.	Complete	
14	Turn on text level (bldg numbers are not identified)	A	Comply	Complete	
15	Turn off site grid layout shown on various sheets	A	Comply	Complete	
16	Identify drawing by discipline (i.e. A-1, A-2, E-2, etc) for every sheet	A	Comply	Complete	
17	Show FEH facility at grade		N/A		
18	Specific drawing title on sheets do not match title block	A	Comply	Complete	
19	Provide overall site plan with latest programmatic changes (show FEH/UFC bldg, FEH service/utility bldg)	A	Comply	Complete	
20	FEH service/utility bldg				Detailed Floor plans and Elevations will be provided in Title II
21	Provide line type definition (legend)	A	Comply	Complete	
22	If head-house is deleted, use heavy aggregate concrete at locations conflicting with buildings. Ex: #406, #407, #113)				Structural drawings will be provided in Title II See Sheet. A-5
23	Inconsistent layout of drawings by area (ie site plan - rsy - bth - road access)		Comply	Complete	

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Master Document

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24	Match key plan with intended area shown on drawing	A	Comply	Complete	
25	Provide building numbers	A	Comply	Complete	
26	Indicate room names	A	Comply	Complete	
27	Show thermal barriers at UH	A	Comply	Complete	See Sheet A-8, 9 & 10
28	Turn off data fields		Comply	Complete	
29	Make provisions for hatch doors to open during power failure	A	Comply	Complete	Refer to specifications - Title II detail.
30	Delete references to "Tune-Up Dump"	A	Comply		
31	Coordinate data from "Program & Basis of Design" binder	A	Comply	Complete	
32	Cover Sheet (T-1)				
33	No data in title block	A	Comply	Complete	
34	Delete large SLAC logo	A	Comply	Complete	
35	Add SLAC site key plan and indicate "Project Site"	A	Comply	Complete	
36	Delete both "Title I: Schematic Design – 50%" lines	A	Comply	Complete	
37	Add "Linac Coherent Light Source"	A	Comply	Complete	
38	General Notes (T-2)				
39	Delete Title I 50% and date	A	Comply	Complete	
40	Delete key plan	A	Comply	Complete	
41	Correct data in title block - delete "Beam Transport Hall" and "Enlarged Plans & Sections"	A	Comply	Complete	
42	Add legend and abbreviations	A	Comply	Complete	See T-2 Sheet

Disc.

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Master Document

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43	<u>Contextual Aerial Site Plan – Master Plan</u>				
44	Delete key plan	A	Comply	Complete	
45	Delete Title I 50% and date	A	Comply	Complete	
46	Print is too dark	A	Comply	Complete	
47	Identify existing bldg numbers	A	Comply	Complete	
48	<u>Contextual Site Plan</u>				
49	Identify station at RSY wall	A	Comply	Complete	See Sheet A-6
50	Locate alcoves per Jim Welch's latest email		Comply	Complete	See Sheets A-5, 8 &9
51	Show head house with proper configuration	A	Comply	Complete	
52	Delete key plan	A	Comply	Complete	
53	Show latest FEH configuration	A	Comply	Complete	
54	Delete fire lane shown on south half of RSY	A	Comply	Complete	
55	Add Site Section?	A	Comply (Only at site level plan)	Complete	
56	Verify head wall design and configuration(appears too wide)	A	Comply	Complete	
57	Show concrete blocks and relocate upstream service bldg	A	Comply	Complete	
58	Identify existing bldg numbers	A	Comply	Complete	
59	<u>Enl Contextual Site Plan I</u>	A	Remove/Delete		Shows the same information as the overall contextual site plan
60	Incorporate comments from previous sheet		n/a		
61	Verify title of sheet		n/a		
62	Identify on key plan location of drawing information		n/a		

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Master Document

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63	<u>Partial Masterpiece?</u>	A	Remove/Delete		Shows the same information as the overall master plan
64	Verify spell check		n/a		
65	Update FEH location		n/a		
66	Modify Pep Ring road as necessary		n/a		
67	Verify portal location of diagonal tunnel (does not match Contextual Site Plan)		n/a		
68	Show FEH facility at grade		n/a		
69	<u>Contextual Aerial Site Plan – Site Plan</u>				
70	Delete key plan	A	Comply	Complete	
71	Print is too dark	A	Comply	Complete	
72	Identify existing bldg numbers	A	Comply	Complete	
73	Unclear as to purpose of drawing		Comply	Complete	To show contextual relationship between new and existing development.
74	<u>Contextual Site Plan (A-5)</u>				
75	Unclear as to purpose of drawing		Comply	Complete	Same as above.
76	See comments under Contextual Site Plan above	A	Comply	Complete	
77	<u>LCLS Arch Partial Master Plan & Section</u>	A	Remove/Delete		Shows the same information as the overall master plan
78	Add exposed concrete shielding at RSY wall and relocate service building accordingly		n/a		
79	Verify orientation of proposed research support building (bldg may be parallel to bldg #107)		n/a		

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Master Document

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80	Delete fire lane on south side of research yard		n/a		
81	Show entry to BTH		n/a		
82	Clarify difference in elevation of RSY and ends of head-house (ramp, steps, etc)		n/a		
83	Verify alcove locations (see comment already stated)		n/a		
84	<u>LCLS Enl Contextual Site Plan (I)</u>	A	Remove/Delete		Shows the same information as the overall contextual site plan
85	Incorporate previous comments already stated		n/a		
86	Line type of x-ray tunnel should all be dashed		n/a		
87	Verify portal location of diagonal tunnel (does not match other drawings)		n/a		
88	Update FEH configuration		n/a		
89	Delete step wall at grade of FEH		n/a		
90	Verify rectangular object at widening of tunnel (? service bldg in middle of proposed path way discussed at previous design review)		n/a		
91	<u>SLAC Beam Transfer Hall</u>				
92	Change wording of SLAC to LCLS	A	Comply	Complete	
93	Show clear difference between new and existing	A	Comply	Complete	
94	Drawing entitled BTH but shows demolition	A	Comply	Complete	
95	Show road demolition				Refer to Civil Drawings

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Master Document

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96	Unclear if BTH should be shown?	A	Comply (BTH to be shown very lightly to show area of impact)	Complete	
97	Line type for buildings #102 and #104 show same as bldg #211. #211 is to be relocated and the other two are to be demolished	A	Comply	Complete	
98	Show removal and reinstallation of concrete blocks upstream	A	Comply	Complete	
99	<u>LCLS Proposed Research Yard BTH Floor Plan (A-5)</u>				
100	Clarify that lines are painted lines in north side of RSY	A	Comply	Complete	
101	Verify wall thickness at entry	A	Comply	Complete	
102	Aisle way is too narrow for 10' undulators that need to be moved monthly	A	Comply	Complete	
103	Add replacement of roof panels to provide roof access (span 50')	A	Comply	Complete	See Sheet A-7 (Detail) Sheet A-2 (Location)
104	Delete fire lane	A	Comply	Complete	
105	Delete text "444"	A	Comply	Complete	
106	Verify stair plan to match required rise/run (use maximum allowable rise per code)	A	Comply	Complete	
107	<u>Service Connection Around The Berm</u>				
108	Verify distance of cover under relocated road at station 3+00	A	Comply	Complete	
109	De-emphasize the "Proposed Research Support Building"	A	Comply	Complete	
110	Show only primary portal	A	Comply	Complete	
111	Verify turning radius at station 25+00 to meet same requirements as station 10+00	A	Comply		Refer to Civil Drawings

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Master Document

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112	<u>LCLS Headhouse Arch Enlarged Plans & Sections (A-6)</u>				
113	Section symbols need to be completed	A	Comply	Complete	
114	Relocate upstream service bldg to accommodate concrete shielding	A	Comply	Complete	
115	Provide hip roof design for service bldgs in RSY to be more consistent with other bldgs in the area		Comply	Complete	Shed roof for simplicity of construction and to reduce cost See Sheet A-7
116	Indicate elevation at top of concrete	A	Comply	Complete	
117	Delete man-symbol	A	Comply	Complete	
118	Show f.f. elev inside FFTB hall. There should be a ramp for change of elevation if necessary	A	Comply	Complete	
119	Where is transverse Section shown?	A	Comply	Complete	See Sheet A-6, A-7 Bellow
120	See comment regarding stair plan stated above	A	Comply	Complete	
121	<u>LCLS BTH Arch Enlarged Plans & Sections (A-7)</u>				
122	Key plan does not match	A	Comply	Complete	
123	Enlarged Floor Plan	A	Comply	Complete	
124	Verify head wall section and height	A	Comply	Complete	
125	Show longitudinal section symbol	A	Comply	Complete	
126	Enlarged Section		Comply	Complete	
127	Coordinate caissons with utilities in the area	A	Comply	Complete	Refer to Structural Drawings
128	BTH clear height is 8'. Therefore, BTH may not need to be 4.5 meters high.	A	Comply	Complete	See Sheet A-7 For Rev. CLR. HGT
129	Indicate dimension of height of top of concrete	A	Comply	Complete	
130	Enlarged Section	A	Comply	Complete	
131	Verify height of headwall	A	Comply	Complete	

Disc.

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Master Document

	General Comments	Disc.	Response	Status	Disposition
132	See comment above regarding hip roof design	A	Comply		Shed roof for simplicity of construction and to reduce cost
133	<u>SLAC BTH Arch Enlarged Plans & Sections (A-7)</u>				
134	Lower "Enlarged Floor Plan" should be changed to "Section"	A	Comply	Complete	
135	Clarify in key plan area to be considered	A	Comply	Complete	
136	Overall needs further development for comments	A	Comply	Complete	
137	<u>LCLS BTH Arch Enlarged Plans & Sections (A-8)</u>				
138	Clarify in key plan area to be considered	A	Comply	Complete	
139	Clarify title, is this Undulator Hall?	A	Comply	Complete	
140	Overall needs further development for comments	A	Comply	Complete	
141	<u>LCLS BTH Arch Enlarged Plans & Sections(A-9)</u>				
142	Duplicate title as previous sheet	A	Comply	Complete	
143	Change title from Beam Dump to Beam Dump/Front End Enclosure Plan	A	Comply	Complete	
144	Change title from Beam Dump to Beam Dump/Front End Enclosure Section	A	Comply	Complete	
145	Show utility vehicle on correct side of road	A	Comply	Complete	Removed/deleted (A-9)
146	Indicate cover over Beam Dump at road location	A	Comply	Complete	See Sheet A-9
147	Indicate height of room	A	Comply	Complete	

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Master Document

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148	Refer to latest approved Beam Dump entry design	A	Comply	Complete	
149	Add previous 7 meters of CF flex space into Front End Enclosure space adjacent to NEH, move downstream commencing at large steel block	A	Comply	Complete	See Sheet A-10
150	In section view separate 17' steel at BD and NEH	A	Comply	Complete	See Sheet A-10
151	Relocate service bldg	A	Comply	Complete	
152	Identify key plan	A	Comply	Complete	
153	Show steel full height	A	Comply	Complete	See Sheet A-10
154	Vertically align plan and section for clarity	A	Comply	Complete	
155	<u>LCLS NEH Arch Enlarged Plans & Sections (A-11)</u>				
156	Reverse plan titles	A	Comply	Complete	
157	Show second floor plan (or delete)	A	Comply	Complete	
158	Verify upstream entry of NEH is a 4' door	A	Comply	Complete	
159	Do not show walls around prep area	A	Comply	Complete	See Rev. FL A-11
160	Verify dimensions of beam inside hutches (south hutches from south wall 2.25m to beam line, 2.5 m separation between beam lines and 4.75m to wall from second beam line = 9.5m. dimension shows 9.45m. north hutch dimension from south wall to centerline of beam line is 4.75m)	A	Comply	Complete	
161	Coordinate proposed bldg columns with future hutch wall location	A	Comply	Complete	
162	Use Storage area near stair for telephone/communication closet	A	Comply	Complete	

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Master Document

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163	Update layout to show aisle space and area for hvac to hutches (both sides of hall)		Comply	Complete	Refer to Mech. Drawing
164	Verify cost differential of raising concrete ceiling in 1' foot increments	A	Comply	Complete	
165	Indicate finish floor elevation	A	Comply	Complete	
166	<u>LCLS BTH Arch Enlarged Plans & Sections (A-12)</u>				
167	Clarify in key plan area to be considered	A	Comply	Complete	
168	Clarify title, is this NEH?	A	Comply	Complete	
169	Overall needs further development for comments	A	Comply	Complete	
170	<u>X-Ray Transport Tunnel (title block untitled) (A-16)</u>	T	Title inserted	Complete	Drawing revised
171	Add data in title block	A	Comply	Complete	
		T	Completed	Complete	Drawing revised
172	Enlarged Section				
173	Show correct tunnel profile	A	Comply	Complete	
		T	Profile corrected	Complete	Drawing revised
174	Show overall dimensions	A	Comply	Complete	See Sheet(s) A-2,3
		T	Dimensions inserted	Complete	Drawing revised
175	Show floor elevation	A	Comply	Complete	
		T	Floor elevation shown		
176	Identify granite block and beam (include dimensions)	A	Comply	Complete	
177	Indicate cover between tunnel and FELC/UFC	A	Comply	Complete	See Sheet C-12
178	See multiple comments on plan	A	Comply	Complete	
179	No shielding req'd on south side	A	Comply	Complete	

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Master Document

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180	Verify access on both ends with Rad Physics	A	Comply	Complete	
181	Identify size and capacity of freight elevator	A	Comply	Complete	See Sheet A-11
182	Provide vibration sensitive floor at upstream end for mirror tank. Length to be considered shall be 10 meters	A	Comply	Complete	See Sheet A-11
183	Possible reverse locations of elevator and restroom to dampen vibration for mirror tank	A	Comply	Complete	See Sheet A-11
184	Future hatch adjacent to freight elevator may require vibration considerations	A	Comply	Complete	Issue has been taken under consideration. The freight elevator has been separated from the future hatch.
185	Verify that 8' ceiling height is all that we need in this tunnel	A T	Comply Tunnel height adjusted	Complete Complete	 Drawing revised
186	Show temporary vertical shaft for alignment sighting	A	Comply	Complete	See Sheet A-8, 9
187	Identify aisle	A	Comply	Complete	
188	Dimension spacing between beam lines	A	Comply	Complete	
189	Provide 3' concrete wall for shielding at downstream entry	A	Comply	Complete	
190	Maintain 6' at dead end for beam stoppers	A	Comply	Complete	
191	<u>LCLS FEH Arch Enlarged Plans & Sections (A-17)</u>				
192	Show section through plan	A	Comply	Complete	
193	Define area for micro-tunneling			Complete	Identify at end of x-ray tunnel (horizontal borg for protective sleeve.)
194	Properly name hatches	A	Comply	Complete	

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Master Document

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195	Hutches #1 and #2 shall have sliding door (2mm lead with steel face both sides)	A	Comply	Complete	This comment was addressed. Per Steve Hill's direction was later changed back to swinging doors.
196	Delete doors between tunnels if not required for hvac control	A	Comply	Complete	
197	3rd hutch	A	Comply	Complete	
198	2' concrete on north/south wall and 3' at end wall	A	Comply	Complete	
199	Remove pair of swing doors and use same door design as used in NEH	A	Comply	Complete	
200	remove shielding around swinging doors	A	Comply	Complete	
201	Show amenity area in its entirety	A	Comply	Complete	
202	Delete egress tunnel	A	Comply	Complete	
		T	Egress tunnel deleted		
203	Change drawing plan title from Partial Master Plan to Section.....	A	Comply	Complete	
204	Show overall dimensions	A	Comply	Complete	
205	Clarify concrete walls from typical stud/sheet rock walls from gunite tunnel walls	A	Comply	Complete	
206	Scale earth symbol	A	Comply	Complete	
207	Identify slope in floor	A	Comply	Complete	
208	<u>Tunnel Sections and Details (title block untitled)</u>	T	Title block inserted	Complete	Drawing revised
209	Details C&D call out 40', is this correct?	A	Not	Complete	
		T	Title of Details C and D corrected	Complete	Drawing revised
210	Sections refer to figure 4. What and where is it located?	A	Comply	Complete	

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Master Document

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		T	Reference to Figure 4 deleted as it is shown in Tunnel Waterproofing and Liner Details.	Complete	Drawing revised
211	Is drain on both sides of tunnel?	A	Comply	Complete	See Sheet(s) C-13, 14
		T	Title changed to include both sides of the tunnel.	Complete	Drawing revised
212	Identify floor thickness.	A	Comply	Complete	Refer to tunnel & to Struc. Drwgs See Sheet(s) A-13,14
		T	Floor Thickness inserted on all sections	Complete	Drawing revised
213	Update plan to include latest proposal in design review	A	Comply		
		T	Undulator Floor Slab support updated as discussed during design review	Complete	Drawing revised
214	<u>SLAC Head House Arch Enlarged Plans & Sections</u>	A	Remove/Delete		
215	Unclear as to purpose of this sheet		n/a		
216	Clarify in key plan area to be considered		n/a		
217	Clarify title, is this the service bldgs?		n/a		
218	Overall needs further development for comments		n/a		
219	Show stacked concrete shielding blocks		n/a		
220	Correct floor elevations to service bldgs		n/a		
221	Are these service bldgs A-C?		n/a		

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Master Document

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222	Need dimensions		n/a		
223	<u>LCLS Service Bldgs D & E Arch Enlarged Plans & Sections</u>	A	Remove/Delete		
224	Clarify in key plan area to be considered		n/a		
225	Clarify title, is this the service bldgs?		n/a		
226	Overall needs further development for comments		n/a		
227	Service bldgs will not be at elevation 247.25'		n/a		
228	<u>SLAC Service Bldgs A, B & C Arch Enlarged Plans & Sections</u>	A	Remove/Delete		
229	Clarify in key plan area to be considered		n/a		
230	Clarify title, is this the service bldgs?		n/a		
231	Overall needs further development for comments		n/a		
232	Service bldgs will not be at elevation 247.25'		n/a		
233	Sheet calls out service bldgs A and B, title blk conflicts		n/a		
234	<u>LCLS BTH Arch Enl Plans & Sections (A-19)</u>	A			Sheet is reserved for conceptual 3D digital renderings
235	Clarify in key plan area to be considered		n/a		
236	Clarify title, is this the service bldgs?		n/a		
237	Overall needs further development for comments		n/a		
238	<u>LCLS BTH Arch Enl Plans & Sections (duplicated)(A-20)</u>	A			Sheet is reserved for conceptual 3D digital renderings.

Disc.

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Master Document

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239	Clarify in key plan area to be considered		n/a		
240	Clarify title, is this the service bldgs?		n/a		
241	Overall needs further development for comments		n/a		
242	Clarify title, is this the service bldgs?		Comply	Complete	
243	Overall needs further development for comments		Comply	Complete	
244	<u>BTH Mech Sys Diagram(M-0)</u>				
245	No comments	M	(M)No response required.	N/A	N/A
246	<u>UH Mech Sys Diagram (M-1)</u>				
247	Update with latest comments regarding alcoves (qty and size)	M	Will comply.	Complete	Alcoves have been reduced in size and number.
248	Show return slots in ceiling (M-2)	M	Will comply.	Complete	Return air grilles are shown on the UH section.
249	Verify sheet numbering system	M	Will be done.	Complete	Sheet numbering has been coordinated with other disciplines and SLAC guidelines.
250	<u>NEH Mech Sys Diagram (M-4)</u>				
251	Update to include new proposed idea of aisle and closet space in hutches	M	Will comply.	Complete.	Drawings have been coordinated with architectural design.
252	Restroom is on opposite end of bldg	M	Will comply.	Complete.	Restroom location has been changed on the mechanical system diagram.
253	Hutch 1-3 indicate 1 supply and 4 returns. Verify if this is correct.	M	Will review and correct if appropriate.	Design indicates 1 supply, 1 return and 3 exhausts. This is correct.	No changes required.

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Master Document

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254	Verify volume of space calculated against latest arch plan	M	Will review and coordinate with latest architectural plan.	Complete.	Drawings have been coordinated with architectural design.
255	Is support bldg conditioned?	M	The building will be heated and ventilated.	Complete.	NEH mechanical spaces are shown on architectural drawings.
256	<u>XRTDT Mech Sys Diagram</u>				
257	Coordinate service bldgs with arch plans	M	Will comply.	Complete.	Drawings have been coordinated with architectural design.
258	Is there a barrier wall for exiting?	M	This is an architectural item.	Complete.	Yes, there is a barrier wall for exiting.
259	Change title to X-Ray Transport & Diagnostics Tunnel.....	M	Will comply.	Complete.	Drawing title has been updated.
260	Show SA from FEH	M	Will comply.	Complete.	Drawing has been revised to show SA.
261	<u>FEH Mech Sys Diagram – CA Sys Diagram</u>				
262	Update with current plans for FEH	M	Will comply.	Complete.	CA is shown diagrammatically for Title 1.
263	<u>Fire Protection Sys Diagram</u>				
264	Update with current plans i.e. FELC/UFC	M	Will comply	Complete.	New building/area designations have been incorporated.
265	Verify that all FP water is coming from RSY. See FP utilities in Pep Ring Rd.	M	This is a civil item, but will be completed.	Complete.	Mechanical takes FP water at 5' outside building boundary.
266	<u>LCLS BD Elect One Line Diagram - LCLS FELC Elect One Line Diagram</u>				

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267	Identify sources for all power	M	Will comply.	Complete.	Sources of power are defined (Building 406/407 or MH 48). However, neither existing system loading or actual system capacity has been provided to JFI. The design and equipment necessary to distribute 12kv power from MH 48 is not included in the JFI scope of work for this project.

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