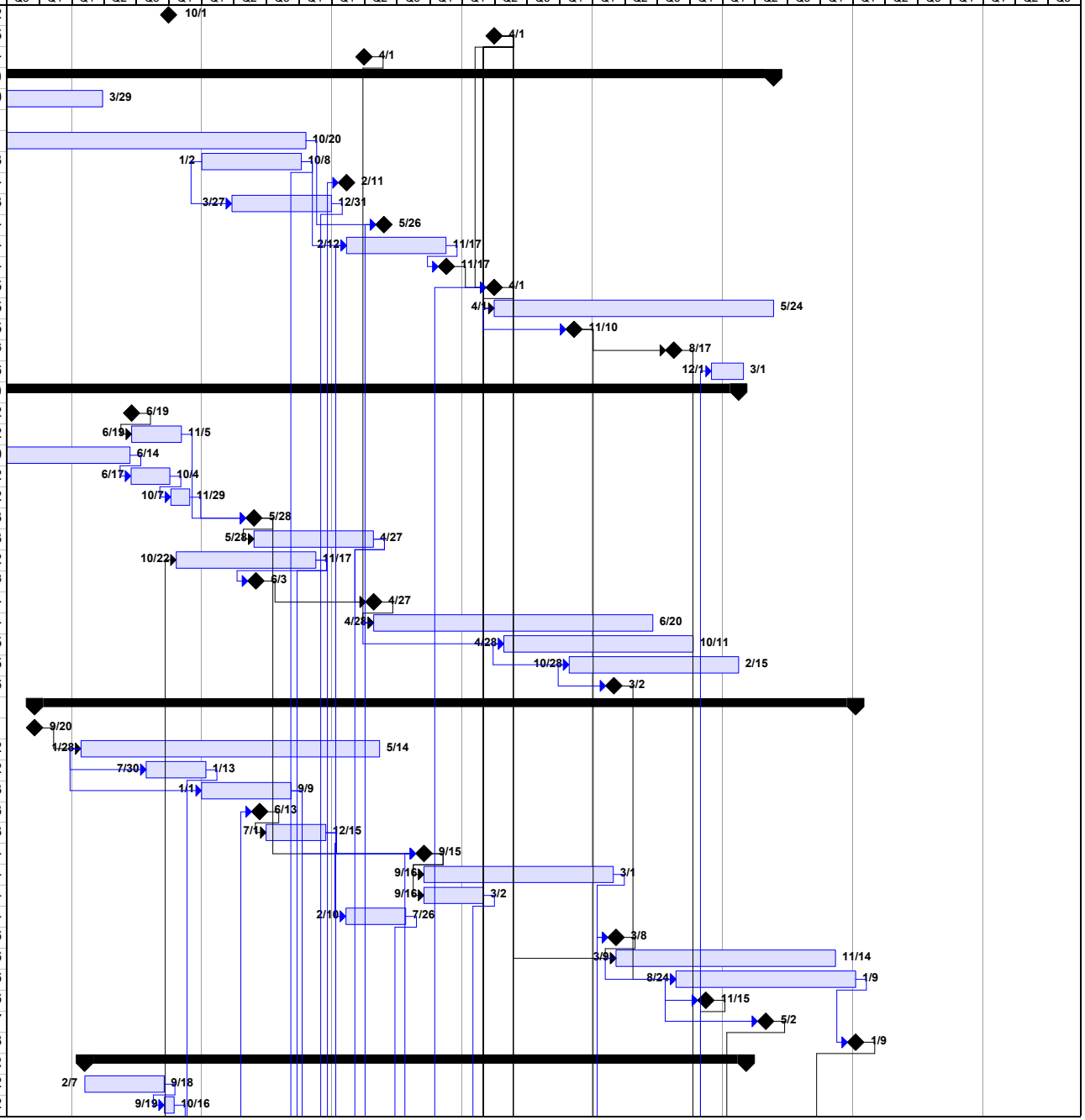
ADVANCED LIGO SUMMARY SCHEDULE 9/25/2002 **LIGO-M020121-C**

ID	Task Name	Duration	Start
1	Construction proposal submitted	0 d	10/1/02
2	construction funding available	0 d	4/1/05
3	funding for COC blanks available	0 d	4/1/04
4	**Seismic Isolation (SEI)**	**1824 d**	**5/29/00**
5	prototype	24 mons	5/29/00
6	DRR	0 d	1/16/01
7	Prelim Design	36 mons	1/16/01
8	pathfinder design/fab (HAM)	10 mons	1/2/03
9	PDR (HAM)	0 d	2/11/04
10	pathfinder design/fab (BSC)	10 mons	3/27/03
11	PDR (BSC)	0 d	5/26/04
12	Final Design	10 mons	2/12/04
13	FDR	0 d	11/17/04
14	Fab Readiness Rev	0 d	4/1/05
15	production	28 mons	4/1/05
16	first article avail	0 d	11/10/05
17	sufficient qty to start install	0 d	8/17/06
18	first article rework	13 w	12/1/06
19	**Core Optics Components (COC)**	**1619 d?**	**12/4/00**
20	DRR	0 d	6/19/02
21	Preliminary Design	5 mons	6/19/02
22	Sapphire Development	20 mons	12/4/00
23	fab sapphire noise prototype blanks	4 mons	6/17/02
24	metrology/testing	2 mons	10/7/02
25	PDR/ select Sapphire or FS	0 d	5/28/03
26	polish & coat LASTI Sap noise optics	12 mons	5/28/03
27	fab LASTI FS noise optics	14 mons	10/22/02
28	choose LASTI cavity parameters	1 d?	6/3/03
29	FDR	0 d	4/27/04
30	blanks	28 mons	4/28/04
31	polish	19 mons	4/28/05
32	coat	17 mons	10/28/05
33	IFO1 set avail from QA	0 d	3/2/06
34	**Suspension (SUS)**	**1645 d**	**9/20/01**
35	DRR	0 d	9/20/01
36	Preliminary Design	30 mons	1/28/02
37	non-TM Controls Prototypes Fab	6 mons	7/30/02
38	TM Controls Prototypes Fab	9 mons	1/1/03
39	non-TM PDR	0 d	6/13/03
40	non-TM Final Design	6 mons	7/1/03
41	TM PDR	0 d	9/15/04
42	TM Final Design	19 mons	9/16/04
43	TM 'noise' prototype fab	6 mons	9/16/04
44	non-TM 'noise' prototype fab	6 mons	2/10/04
45	FDR	0 d	3/8/06
46	production	22 mons	3/9/06
47	Assembly	18 mons	8/24/06
48	first article completed	0 d	11/15/06
49	IFO1 Assy completed	0 d	5/2/07
50	IFO2 & IFO3 Assy completed	0 d	1/9/08
51	**LASTI Experiments/Tests**	**1326 d**	**2/7/02**
52	seismic pre-isolator tests	8 mons	2/7/02
53	set HAM table height to match adv LIGO	1 mon	9/19/02



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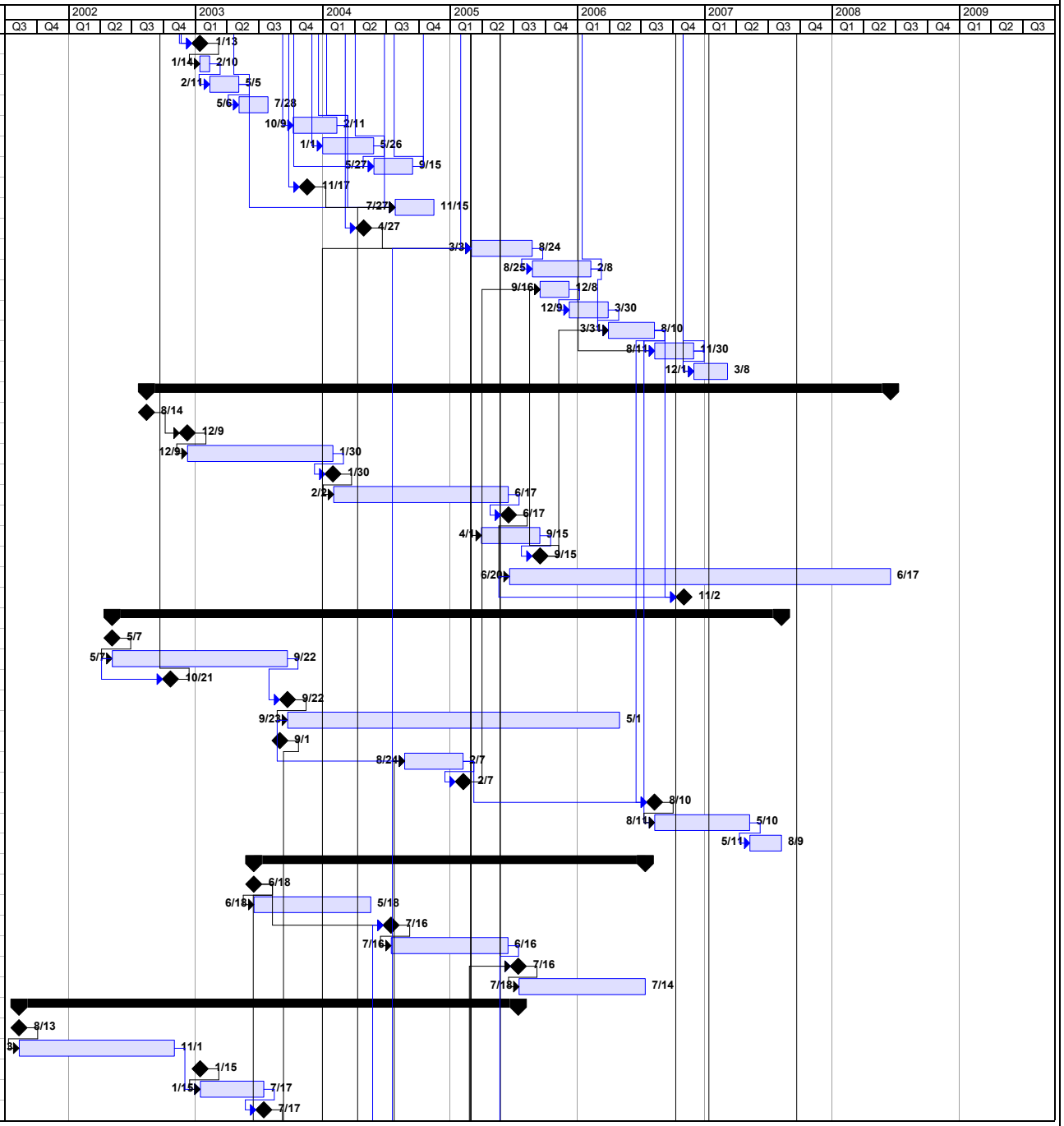
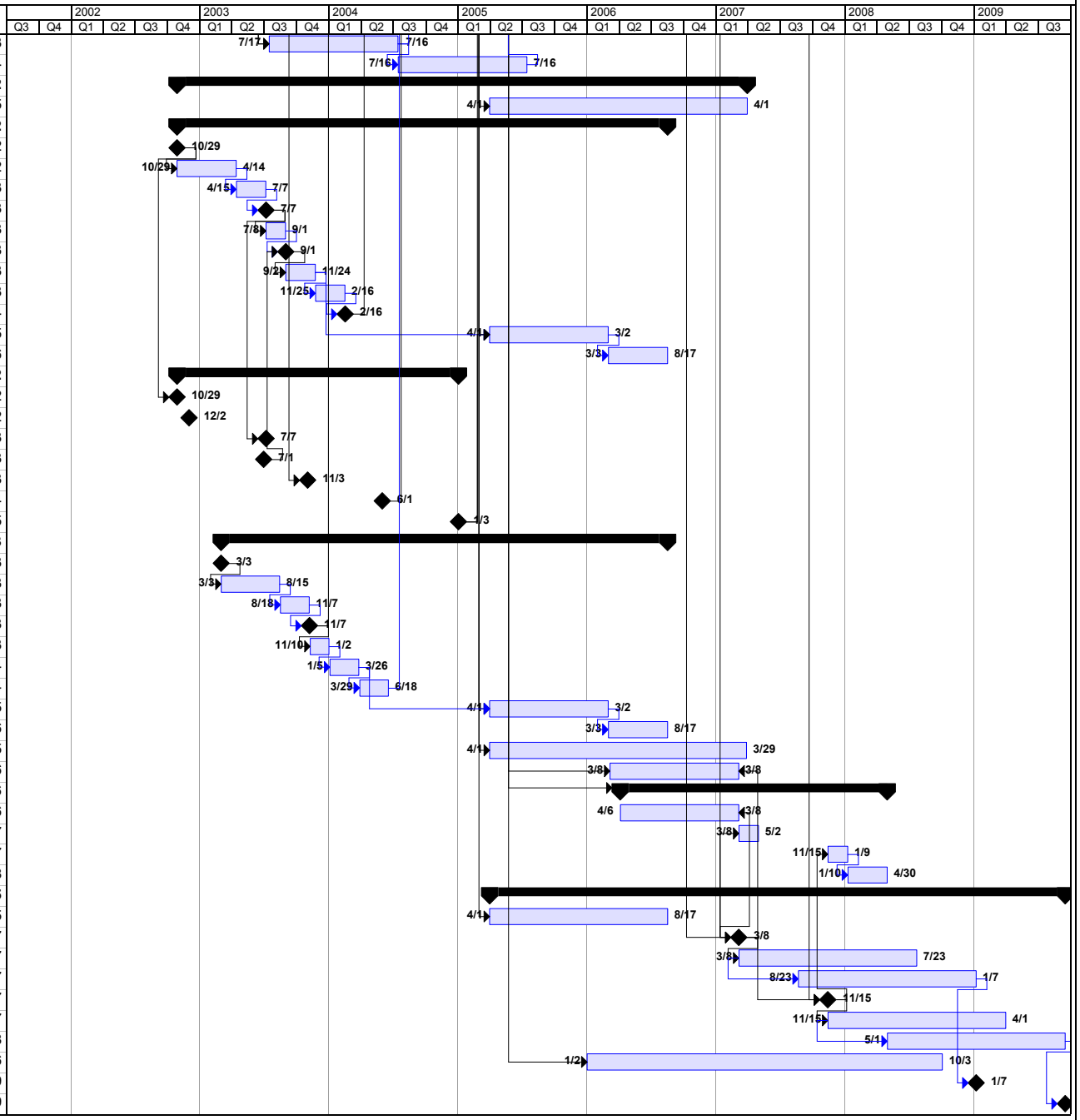
ID	Task Name	Duration	Start
54	receive HAM SUS: fit-test suspensions	0 d	1/13/03
55	install HAM suspensions	1 mon	1/14/03
56	HAM SUS Controls stand-alone testing	3 mons	2/11/03
57	laser intensity stabilization testing	3 mons	5/6/03
58	HAM SEI stand-alone testing	18 w	10/9/03
59	BSC SEI stand-alone tests	21 w	1/1/04
60	BSC SUS Controls stand alone tests	4 mons	5/27/04
61	HAM SUS 'noise' optics ready	0 d	11/17/03
62	HAM SUS assy/instal/test 'noise' SUS proto.	4 mons	7/27/04
63	TM 'noise' optics ready	0 d	4/27/04
64	TM assy/instal/test 'noise' SUS proto.	25 w	3/3/05
65	cavity tests	6 mons	8/25/05
66	install PSL, IO	3 mons	9/16/05
67	commission PSL	4 mons	12/9/05
68	PSL-MC Integ Test	19 w	3/31/06
69	SEI 1st Article Test	16 w	8/11/06
70	SUS 1st Article Test	14 w	12/1/06
71	**Prestabilized Laser (PSL)**	**1525 d**	**8/14/02**
72	Conceptual design downselect	0 d	8/14/02
73	DRR	0 d	12/9/02
74	preliminary design	15 mons	12/9/02
75	PDR	0 d	1/30/04
76	final design	18 mons	2/2/04
77	FDR	0 d	6/17/05
78	pathfinder	6 mons	4/1/05
79	pathfinder ship to LASTI	0 d	9/15/05
80	production	782 d	6/20/05
81	Ship PSL to LLO	0 d	11/2/06
82	**Input Optics (IO)**	**1373 d**	**5/7/02**
83	DRR	0 d	5/7/02
84	prelininary design	18 mons	5/7/02
85	LASTI MC and ancillary optics designed	0 d	10/21/02
86	PDR	0 d	9/22/03
87	final design	34 mons	9/23/03
88	deliver modulators/isolators to Gingin	0 d	9/1/03
89	mod/isolator prototype fabrication	6 mons	8/24/04
90	mod/isol prototype ship to LASTI	0 d	2/7/05
91	FDR	0 d	8/10/06
92	fabrication	39 w	8/11/06
93	assembly	13 w	5/11/07
94	**Interferometer Sensing and Control (ISC)**	**803 d**	**6/18/03**
95	DRR	0 d	6/18/03
96	prelininary dsign	12 mons	6/18/03
97	PDR	0 d	7/16/04
98	final design	12 mons	7/16/04
99	FDR	0 d	7/16/05
100	fabrication	52 w	7/18/05
101	**40m**	**1025 d**	**8/13/01**
102	40m Req./Plan Review	0 d	8/13/01
103	preliminary experiments/shakedown	16 mons	8/13/01
104	GEO 10m results, ISC coordination	0 d	1/15/03
105	ISC controls fab	183 ed	1/15/03
106	construction complete/Exper. Plan Rev.	0 d	7/17/03



ID	Task Name	Duration	Start
107	experiment phase 1	365 ed	7/17/03
108	experiment phase 2	365 ed	7/16/04
109	**Auxiliary Optics (AOS)**	**1154 d**	**10/29/02**
110	scattered light control, pickoffs	730 ed	4/1/05
111	**active optics compensation**	**993 d**	**10/29/02**
112	DRR	0 d	10/29/02
113	prelim design	6 mons	10/29/02
114	prototype fab	3 mons	4/15/03
115	ship to Gingin	0 d	7/7/03
116	prototype test	2 mons	7/8/03
117	data back from gingin	0 d	9/1/03
118	final design	3 mons	9/2/03
119	clearance and fit test prototype fab	3 mons	11/25/03
120	ship to LASTI	0 d	2/16/04
121	fabrication	12 mons	4/1/05
122	assembly	6 mons	3/3/06
123	**Gingin High Power Experiment**	**569 d**	**10/29/02**
124	LIGO delivers ring heater parameters	0 d	10/29/02
125	LIGO delivers sapphire test masses (2)	0 d	12/2/02
126	LIGO delivers prototype AOC system	0 d	7/7/03
127	Gingin delivers 1st exper. Results	0 d	7/1/03
128	UFla delivers modulators/isolators	0 d	11/3/03
129	Gingin delivers results on mod/isol	0 d	6/1/04
130	Gingin delivers final results to LIGO	0 d	1/3/05
131	**photon drive**	**904 d**	**3/3/03**
132	DRR	0 d	3/3/03
133	prelim design	6 mons	3/3/03
134	prototype fab	3 mons	8/18/03
135	ship prototype to LASTI	0 d	11/7/03
136	prototype test	2 mons	11/10/03
137	final design	3 mons	1/5/04
138	1st art fab	3 mons	3/29/04
139	fabrication	12 mons	4/1/05
140	assembly	6 mons	3/3/06
141	Data Acquisition, Networking & Supervisory Contr	104 w	4/1/05
142	Support Equipment (SUP)	365 ed	3/8/06
143	**Facility Modifications (FAC)**	**540 d**	**4/6/06**
144	prep	12 mons	4/6/06
145	install large dia MC tubes @ LLO	8 w	3/8/07
146	install large dia MC tubes @ LHO	8 w	11/15/07
147	move mid-sta BSC to end-sta	16 w	1/10/08
148	**Installation (INS)**	**1164 d**	**4/1/05**
149	prep	18 mons	4/1/05
150	start LLO install	0 d	3/8/07
151	install @ LLO	18 mons	3/8/07
152	commission @ LLO	18 mons	8/23/07
153	start LHO install	0 d	11/15/07
154	install @ LHO	18 mons	11/15/07
155	commission @ LHO	18 mons	5/1/08
156	LIGO Data Analysis System (LDAS)	36 mons	1/2/06
157	LLO operational	0 d	1/7/09
158	LHO operational	0 d	9/16/09