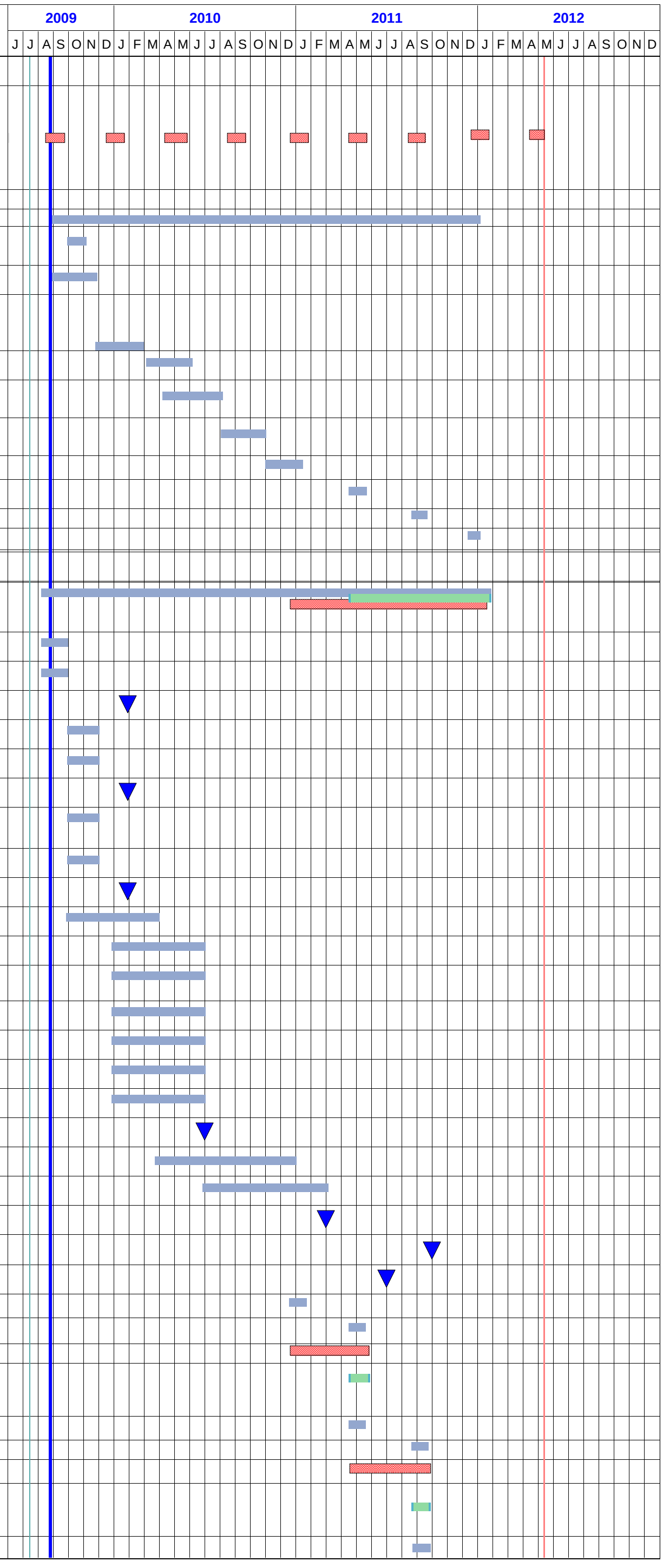
DRAFT Schedule for ARRA Beamlines 8-24-2009

	Activity Name
1	
2	Machine Shutdowns
3	
4	ID VC
5	Write and approve ESD and QA Plan for new IDVC
6	Create and Release Design drawings
7	Write and approve Requisitions for Extrusion Machining, Endboxes, Bi-metal flanges, Bellows, Pumps, NEG material
8	Machining of 3 extrusions
9	Fabrication of 3 sets of Endboxes
10	QA of chambers and endboxes at ANL
11	Chamber Fabrication and Testing at ANL
12	Install S34 VC
13	Install S16 VC (HP)
14	Install S13 VC (GSE)
16	
18	Front End
19	S34
20	Layout and ray tracing for S34
21	BSDRSC Review for S34
22	GSECARS
23	Layout and ray tracing for GSE-CARS
24	BSDRSC Review for GSE-CAT
25	HP-CAT
26	Layout and ray tracing for HP-CAT
27	BSDRSC Review for HP-CAT
28	Prepare procurement packages
29	Award FE components
30	PS and masks and windows
31	SS
32	Collimators
33	Vacuum components
34	Control hardware
35	All FE procurements awarded
36	Delivery of FE components
37	Assembly and QA of FE components
38	All S34 componets assembled
39	All GSE components assembled
40	All HP components assembled
41	Install S34 wall collimator
42	Install S34 FE
43	S34 Dark time
44	Alternative S34 FE installation in single shut down, no dark time, require two work shifts
45	Install HP wall collimator
46	Install HP FE
47	HP Dark time
48	Alternative S16 FE installation in single shut down, no dark time, require two work shifts
49	Install GSE wall collimator



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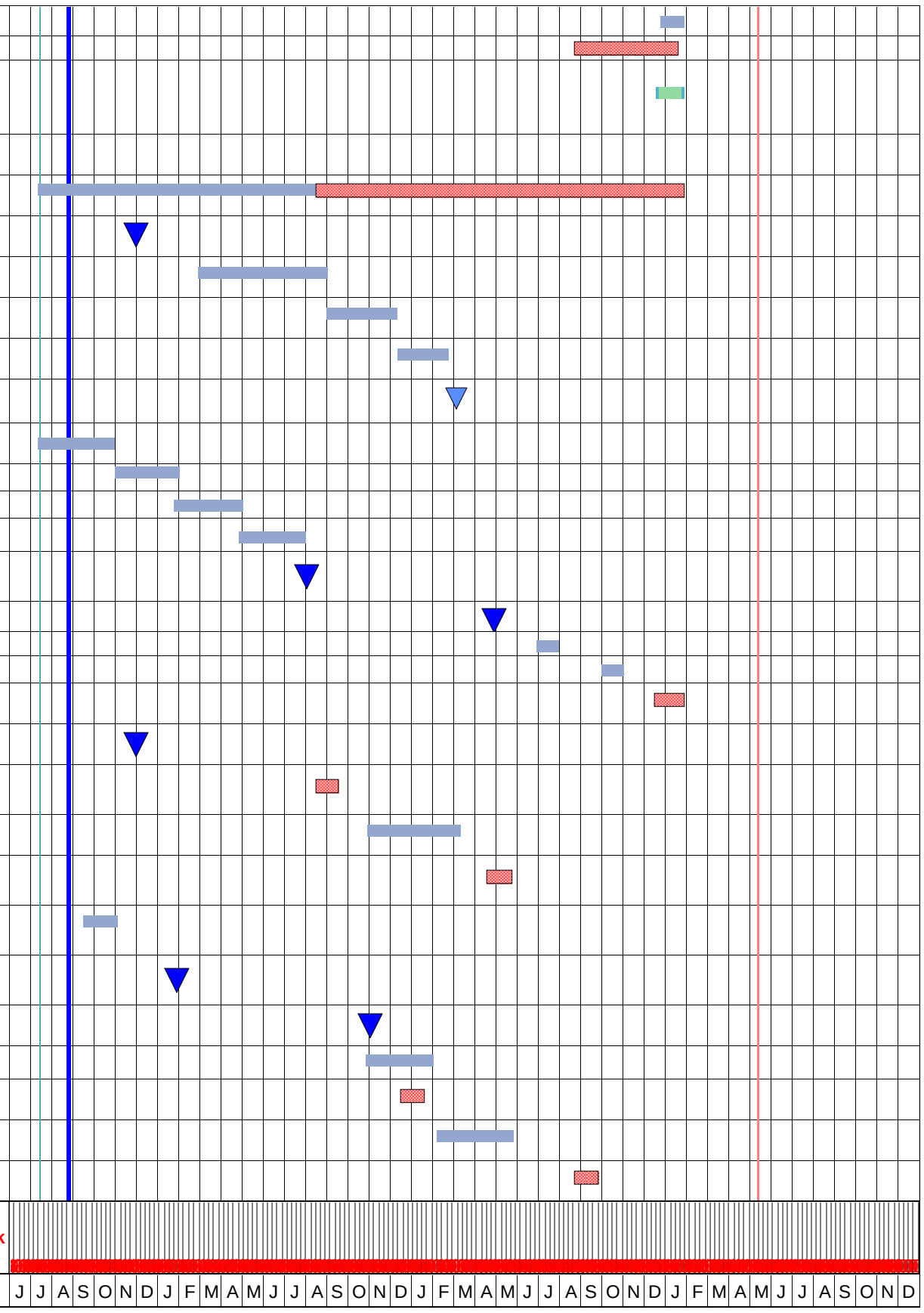
50	Install GSE FE
51	GSE dark time
52	Alternative S13 FE installation in single shut down, no dark time, require two work shifts
53	
54	ID and Canted Magnets
55	Canting magnet packages to procurement
56	Canted magnets fabrication
57	Assemble canting and corrector magnets
58	Canted magnets field test
59	Canted magnets ready for installation
60	Finalize GSECARS period lengths
61	GSE magnetic design
62	GSE ID mechanical design (1st ID)
63	GSE mechanical design (2nd ID)
64	order for both GSE magnets and poles to procurement
65	Delivery of magnets and poles for GSE ID
66	Assemble and Tune GSE ID (1st ID)
67	Assemble and Tune GSE ID (2nd ID)
68	GSECARS ID installation
69	Shop order to shorten UA for S34
70	swap out the S34 2.4m UA with the shortened UA
71	shorten the 2nd UA for S34
72	Install both shortened UA in S34 in canted mode
73	finalize HP new ID period from the exist ing design
74	Order for HP ID magnets and poles to procurement
75	Delivery of HP ID magnets and poles
76	HP ID assembly and tuning
77	Remove one long UA from S16
78	Shorten the UA for S16
79	Install both HP IDs in canted config
	Total Cost per Week