

30	Design field map fixture for Tagging magnet				1/12/2013	4/18/2013									6	4	FY13	31	22720	
31	Fab field map fixture tagging magnet				4/19/2013	7/22/2013							18400					30	1562061	
32	Install Cable trays in tagger				2/22/2013	3/5/2013								2			FY13	1562095	3440	
1562085	Racks - Install Tagger	H	3/11/2013	3/22/2013	3/6/2013	3/22/2013	0%	16.6	\$0	\$0	\$1,765	\$1,765								
1562098	Install Tagger Quad Stand & Magnet (Installtn)	H	3/1/2013	3/29/2013	4/1/2013	4/29/2013	0%	45.8	\$0	\$0	\$19,554	\$19,554								
33	Design field map fixture for PS magnet				3/3/2013	5/6/2013									5	3	FY13	34	18000	
34	Fab field map fixture for PS magnet				5/8/2013	8/4/2013							7100					33	35	
35	Field Map PS magnet				8/7/2013	9/22/2013								2		1		34	ready 4 be	6240
36	Design stand for PS shielding				12/1/2012	2/2/2012									2	2	FY13	37	9440	
37	Fab stand for PS shielding				2/4/2013	5/1/2013							6500					36	72	
1562225	Mount Bcal Modules in Solenoid (Installtn)	H	7/9/2013	9/19/2013	6/3/2013	8/16/2013	0%	20.4	\$62,010	\$0	\$30,507	\$92,517								
1562230	Attach readout wedges to the BCAL modules in situ (Installtn)	H	9/20/2013	11/7/2013	8/17/2013	10/4/2013	0%	20.4	\$7,137	\$0	\$52,727	\$59,864								
38	Design BCAL Lateral support				6/2/2013	8/2/2013									3	2	FY13	39	11360	
39	Fab BCAL lateral support				8/3/2013	9/28/2013							3800					38	40	
40	Install BCAL lateral support				10/1/2013	11/1/2013								2				39	ready 4 beam	
1562245	Racks - Install Hall Lower Level Upstream (U1)	H	3/25/2013	4/5/2013	3/1/2013	3/30/2013	0%	16.6	\$0	\$0	\$7,061	\$7,061								
1562246	Racks - Install Hall Lower Level Upstream South (US1)	H	4/8/2013	4/19/2013	4/1/2013	4/20/2013	0%	16.6	\$0	\$0	\$3,530	\$3,530								
1562247	Racks - Install Hall Lower Level North (N1)	H	4/22/2013	5/1/2013	1/28/2013	2/24/2013	0%	16.6	\$0	\$0	\$3,530	\$3,530								
1562248	Racks - Install Hall Lower Level South (S1)	H	5/2/2013	5/15/2013	2/7/2013	3/18/2013	0%	16.6	\$0	\$0	\$3,530	\$3,530								
1562250	Install Pwr to Racks Platform #1 (Installtn)	H	4/8/2013	5/3/2013	2/4/2013	4/8/2013	0%	34	\$22,230	\$0	\$14,122	\$36,352								
1562330	Racks - Install Hall Upper Level Upstream (U2)	H	5/16/2013	5/30/2013	1/22/2013	2/4/2013	0%	16.6	\$0	\$0	\$7,061	\$7,061								
1562335	Install Pwr to Racks Platform #2 (Installtn)	H	5/31/2013	8/2/2013	2/5/2013	4/9/2013	0%	25.4	\$35,100	\$0	\$0	\$35,100								
1562360	Install FDC on Platform (Installtn)	H	5/7/2013	5/20/2013	9/13/2013	9/20/2013	0%	2.8	\$3,510	\$0	\$7,016	\$10,526								
1562365	Alignment of FDC (Installtn)	H	5/21/2013	6/4/2013	10/1/2013	10/14/2013	0%	2.8	\$0	\$0	\$8,138	\$8,138								
1562375	Operation Checks FDC (outside Solenoid) (Installtn)	H	9/6/2013	9/19/2013	11/5/2013	11/27/2013	0%	2.8	\$0	\$0	\$14,560	\$14,560								
1562392	Procure final hardware for gas systems	D	1/3/2013	7/5/2013	1/3/2013	7/5/2013	0%	34.6	\$43,546	\$0	\$0	\$43,546	76000							
1562393	Install/test gas systems	H	2/5/2013	5/29/2013	2/5/2013	5/29/2013	0%	34.6	\$0	\$0	\$39,020	\$39,020		29	4	4			68760	
1562400	Racks - Install Hall Upper Level Downstream (D2)	H	6/6/2013	6/19/2013	5/11/2013	6/25/2013	0%	16.6	\$0	\$0	\$7,061	\$7,061								
1562405	Install Pwr to Racks Platform #3 (Installtn)	H	6/20/2013	8/22/2013	4/26/2013	6/29/2013	0%	16.6	\$23,400	\$0	\$0	\$23,400								
1562450	Install TOF Sys (Installtn)	H	12/30/2013	1/28/2014	12/9/2013	1/13/2014	0%	1	\$1,170	\$0	\$9,354	\$10,524								
1562465	Erect Dark Room for Fcal (Installtn)	H	4/22/2013	6/24/2013	8/5/2013	10/7/2013	0%	1	\$2,340	\$0	\$29,185	\$31,525								
1562470	Register Single Channel FCAL Detector to Readout (Installtn)	H	4/22/2013	7/23/2013	8/5/2013	10/8/2013	0%	1	\$0	\$0	\$11,037	\$11,037								
41	Install cable trays on FCAL platform (FCAL/TOF)	H			6/26/2013	7/29/2013								4				1562400	1562475	6880
42	Design cooling system for FCAL dark room	H			6/26/2013	8/28/2013									4	3	FY13	43	16080	
43	Fab cooling system for FCAL dark room	D			9/1/2013	10/18/2013							7900					42	44	
44	Install Cooling system for FCAL dark room	H			10/19/2013	11/16/2013								3				43	1562590	5160
1562620a	Procure Electrical Power cable/conduit Part B	D	10/1/2012	3/29/2013	10/1/2012	3/29/2013	0%	51	\$18,000	\$0	\$0	\$18,000	36000							
1562625	Install Electrical Power cable/conduit	H	12/3/2012	5/3/2013	12/3/2012	5/3/2013	0%	51	\$0	\$0	\$13,599	\$13,599		14						
45	Design Chilled water system for Hall D	H			4/2/2013	6/4/2013									5	5	FY13	46	23600	
46	Procure Chilled water components	D			6/1/2013	7/20/2013							12000					45	47	
47	Install Chilled water sytem Hall D	H			6/5/2013	8/15/2013								8				46	1562575	13760
48	Design cable tray supports for Upstream Platform	H			11/1/2012	12/1/2012									4	1	FY13	49	10480	
49	Fabricate cable tray supports for upstream platform	D			12/2/2012	1/15/2013							8200					48	50	
50	Install Upstream cable trays (FDC/CDC/SC)	H			8/25/2013	9/10/2013								5				1562225	1562370b	8600
51	Install Cable trays for BCAL	H			2/25/2013	3/25/2013								2				FY13	1562275	3440
52	Design dry air cooling upstream racks/drift chambers	H			2/25/2013	4/28/2013									7	5	FY13	53	27440	
53	Fabricate dry air cooling system up racks/drift chambers	D			5/10/2013	8/18/2013							11500					52	54	
54	Install dry air cooling system up racks/drift chamber	H			8/28/2013	10/15/2013								6		1		53	1562570	13120
55	Design field map fixture for solenoid	H			3/10/2013	5/3/2013									6	5	FY13	56	25520	
56	Fab field map fixture for solenoid	D			5/4/2013	7/2/2013							12600					55	57	
57	Field map solenoid	H			9/1/2013	10/1/2013								5		1		56	1562380	11400
58	Design fixture for commissioning target	H			8/1/2013	11/1/2013									6	4	FY13	59	22720	
59	Fab Fixture for commissioning target	D			11/2/2013	1/10/2014							8000					58	60	
60	Install Commissioning target	H			3/1/2014	4/1/2014								3				59	Ready for t	5160
61	Materials for install 2013	D			11/1/2012	9/28/2013							50000					FY14		
62	Design tooling to roll FCAL platform	H			12/1/2012	1/19/2013									3	3	FY13	63	14160	
63	Fab tooling to roll FCAL platform	D			1/20/2013	3/10/2015							8900					62	64	
64	Install tooling to roll FCAL platform	H			4/1/2013	5/3/2013								3				63	1562590	5160
65	Design N2 purge system	H			3/5/2013	5/5/2013									6	4	FY13	66	22720	
66	Procure N2 purge system	D			5/7/2013	7/1/2013							7600					65	1562630	
67	Design Chilled water system Tagger hall	H			1/5/2013	3/9/2013									4	4	FY13	68	18880	
68	Procure chilled water components tagger	D			3/1/2013	4/1/2013							3200					67	69	
69	Install Chilled water components tagger	H			4/5/2013	7/1/2013								6				68	1562555	10320
70	Install BCAL cooling manifold	H			4/6/2013	6/7/2013								4				5	1562235	6880
72	Install PS shielding	H			8/10/2013	9/10/2013								2				37	ready for b	3440
73	Procure power cable/conduit tagger	D			1/22/2013	3/3/2013							1800					FY13	74	
74	Install Power cable/conduit tagger	H			3/4/2013	5/2/2013												73	1562061	
75	Procure UPS system for critical controls	D			7/18/2013	9/28/2013							4600					FY13	76	
76	Install UPS system for critical controls	H			10/5/2013	1/5/2014								5				75	ready for b	8600
77	Install Electron beamline to dump	H			1/6/2014	2/19/2014								4				FY14	ready for b	6880
78	Procure lighting fixture under US platform	D			1/12/2013	3/1/2013							1100					FY13	79	
79	Install lighting fixtures under US platform	H			2/8/2013	3/19/2013								3				78	54	5160
80	Develop flammable gas detection system in solenoid	H			9/1/2013	11/4/2013									3	6	FY13	81	22560	
81	Procure flammable gas detection system	D			11/5/2013	1/9/2014							8200					80	82	
82	install flammable gas detection system	H			1/10/2014	3/11/2014								3		3		81	ready for b	13560

Totals \$400,519 139 131 134 \$780,061

Labor + Proc \$1,180,580