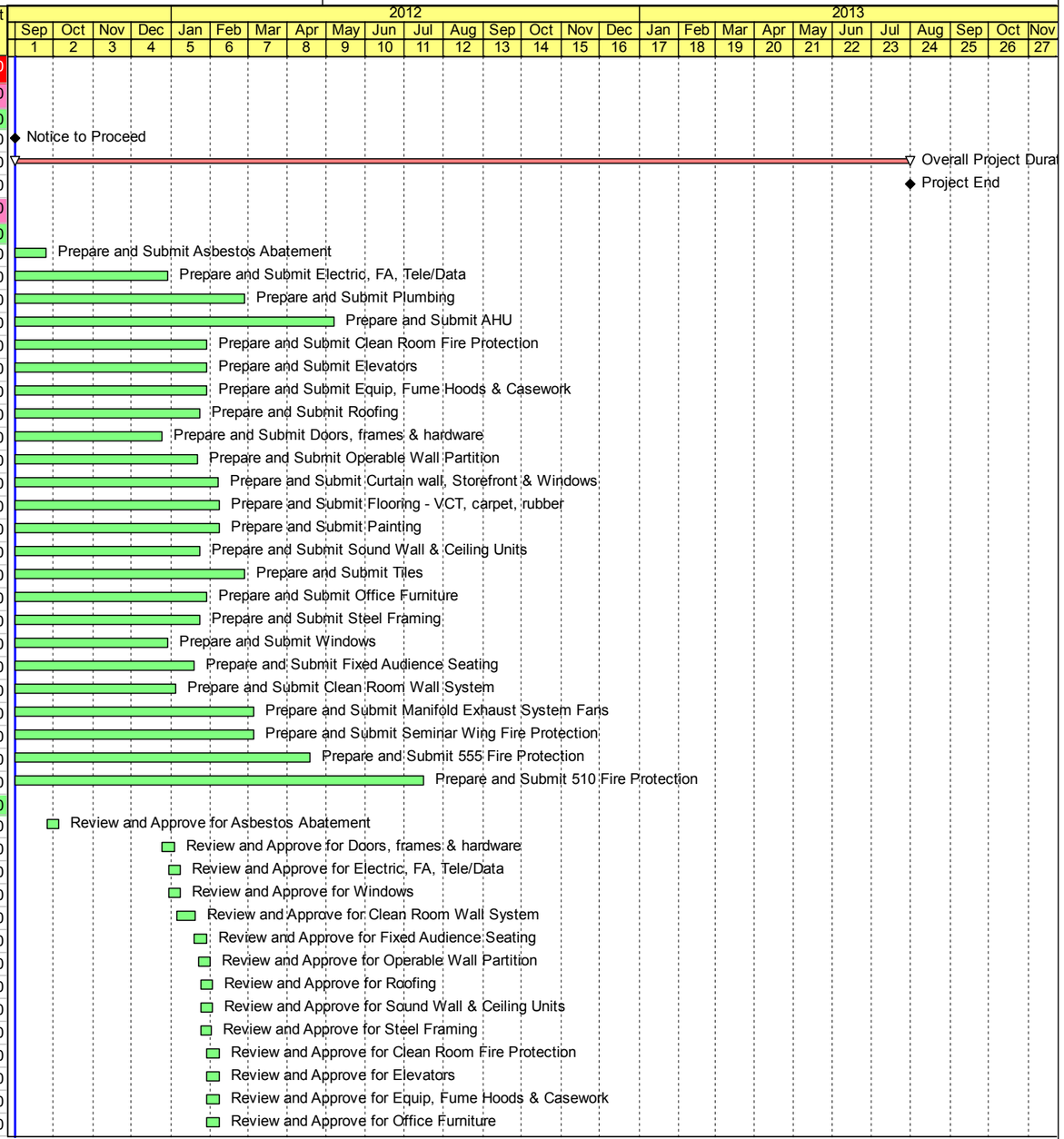
U.W. MARX CONSTRUCTION COMPANY

Renovate Science Labs - Phase II - Baseline change

HSE CPM Scheduling Consultants

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Budgeted Total Cost
Renovate Science Labs - Phase II - Baseline change		468	01-Sep-11	31-Jul-13	0	$33,545,449.00
General Requirements		700	01-Sep-11	31-Jul-13	0	$0.00
Key Dates & Milestones		700	01-Sep-11	31-Jul-13	0	$0.00
KD-1000	Notice to Proceed	0	01-Sep-11		0	$0.00
KD-1010	Overall Project Duration	700	01-Sep-11	31-Jul-13	0	$0.00
KD-1020	Project End	0		31-Jul-13*	0	$0.00
Submittals & Approvals		220	01-Sep-11	30-Jul-12	127	$0.00
Submittals		210	01-Sep-11	16-Jul-12	127	$0.00
SUB-1000	Prepare and Submit Asbestos Abatement	25	01-Sep-11	25-Sep-11	102	$0.00
SUB-1010	Prepare and Submit Electric, FA, Tele/Data	120	01-Sep-11	29-Dec-11	46	$0.00
SUB-1020	Prepare and Submit Plumbing	180	01-Sep-11	27-Feb-12	138	$0.00
SUB-1030	Prepare and Submit AHU	250	01-Sep-11	07-May-12	3	$0.00
SUB-1040	Prepare and Submit Clean Room Fire Protection	150	01-Sep-11	28-Jan-12	289	$0.00
SUB-1050	Prepare and Submit Elevators	150	01-Sep-11	28-Jan-12	180	$0.00
SUB-1060	Prepare and Submit Equip, Fume Hoods & Casework	150	01-Sep-11	28-Jan-12	56	$0.00
SUB-1070	Prepare and Submit Roofing	145	01-Sep-11	23-Jan-12	91	$0.00
SUB-1080	Prepare and Submit Doors, frames & hardware	115	01-Sep-11	24-Dec-11	105	$0.00
SUB-1090	Prepare and Submit Operable Wall Partition	143	01-Sep-11	21-Jan-12	0	$0.00
SUB-1100	Prepare and Submit Curtain wall, Storefront & Windows	159	01-Sep-11	06-Feb-12	158	$0.00
SUB-1110	Prepare and Submit Flooring - VCT, carpet, rubber	160	01-Sep-11	07-Feb-12	180	$0.00
SUB-1120	Prepare and Submit Painting	160	01-Sep-11	07-Feb-12	44	$0.00
SUB-1130	Prepare and Submit Sound Wall & Ceiling Units	145	01-Sep-11	23-Jan-12	96	$0.00
SUB-1140	Prepare and Submit Tiles	180	01-Sep-11	27-Feb-12	3	$0.00
SUB-1150	Prepare and Submit Office Furniture	150	01-Sep-11	28-Jan-12	130	$0.00
SUB-1160	Prepare and Submit Steel Framing	145	01-Sep-11	23-Jan-12	37	$0.00
SUB-1170	Prepare and Submit Windows	120	01-Sep-11	29-Dec-11	19	$0.00
SUB-1180	Prepare and Submit Fixed Audience Seating	140	01-Sep-11	18-Jan-12	32	$0.00
SUB-1190	Prepare and Submit Clean Room Wall System	126	01-Sep-11	04-Jan-12	0	$0.00
SUB-1200	Prepare and Submit Manifold Exhaust System Fans	120	01-Sep-11	05-Mar-12	198	$0.00
SUB-1210	Prepare and Submit Seminar Wing Fire Protection	120	01-Sep-11	05-Mar-12	1	$0.00
SUB-1220	Prepare and Submit 555 Fire Protection	150	01-Sep-11	18-Apr-12	116	$0.00
SUB-1230	Prepare and Submit 510 Fire Protection	210	01-Sep-11	16-Jul-12	127	$0.00
Approvals		203	26-Sep-11	30-Jul-12	127	$0.00
REV-1000	Review and Approve for Asbestos Abatement	10	26-Sep-11	05-Oct-11	102	$0.00
REV-1010	Review and Approve for Doors, frames & hardware	10	25-Dec-11	03-Jan-12	105	$0.00
REV-1020	Review and Approve for Electric, FA, Tele/Data	10	30-Dec-11	08-Jan-12	46	$0.00
REV-1030	Review and Approve for Windows	10	30-Dec-11	08-Jan-12	19	$0.00
REV-1040	Review and Approve for Clean Room Wall System	10	05-Jan-12	19-Jan-12	0	$0.00
REV-1060	Review and Approve for Fixed Audience Seating	10	19-Jan-12	28-Jan-12	32	$0.00
REV-1050	Review and Approve for Operable Wall Partition	10	22-Jan-12	31-Jan-12	0	$0.00
REV-1070	Review and Approve for Roofing	10	24-Jan-12	02-Feb-12	91	$0.00
REV-1080	Review and Approve for Sound Wall & Ceiling Units	10	24-Jan-12	02-Feb-12	96	$0.00
REV-1090	Review and Approve for Steel Framing	9	24-Jan-12	01-Feb-12	37	$0.00
REV-1110	Review and Approve for Clean Room Fire Protection	10	29-Jan-12	07-Feb-12	289	$0.00
REV-1120	Review and Approve for Elevators	10	29-Jan-12	07-Feb-12	180	$0.00
REV-1130	Review and Approve for Equip, Fume Hoods & Casework	10	29-Jan-12	07-Feb-12	56	$0.00
REV-1140	Review and Approve for Office Furniture	10	29-Jan-12	07-Feb-12	130	$0.00



Project Start : 01-Sep-11

Finish Date : 31-Jul-13

Data Date : 01-Sep-11

Renovate Science Labs - Phase II - Baseline change

Baseline Schedule

Remaining Level of Effort ◆ Milestone

Actual Work

Remaining Work

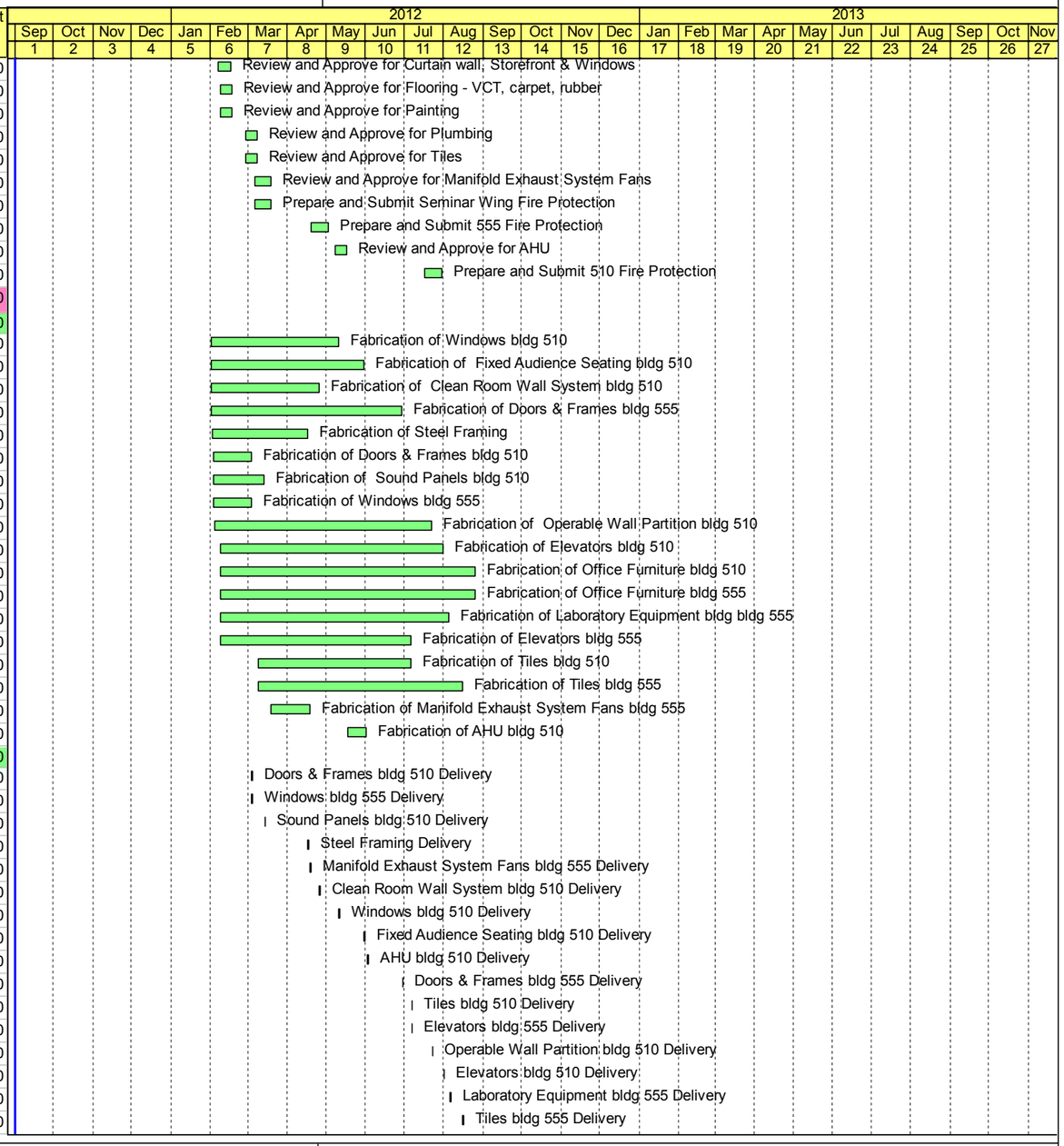
Critical Remaining Work

U.W. MARX CONSTRUCTION COMPANY

Renovate Science Labs - Phase II - Baseline change

HSE CPM Scheduling Consultants

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Budgeted Total Cost
REV-1150	Review and Approve for Curtain wall, Storefront & Windows	10	07-Feb-12	16-Feb-12	158	$0.00
REV-1160	Review and Approve for Flooring - VCT, carpet, rubber	10	08-Feb-12	17-Feb-12	180	$0.00
REV-1170	Review and Approve for Painting	10	08-Feb-12	17-Feb-12	44	$0.00
REV-1180	Review and Approve for Plumbing	10	28-Feb-12	08-Mar-12	138	$0.00
REV-1190	Review and Approve for Tiles	10	28-Feb-12	08-Mar-12	3	$0.00
REV-1200	Review and Approve for Manifold Exhaust System Fans	10	06-Mar-12	19-Mar-12	198	$0.00
REV-1230	Prepare and Submit Seminar Wing Fire Protection	10	06-Mar-12	19-Mar-12	1	$0.00
REV-1210	Prepare and Submit 555 Fire Protection	10	19-Apr-12	02-May-12	116	$0.00
REV-1100	Review and Approve for AHU	10	08-May-12	17-May-12	3	$0.00
REV-1220	Prepare and Submit 510 Fire Protection	10	17-Jul-12	30-Jul-12	127	$0.00
Fabrication & Delivery		208	01-Feb-12	26-Aug-12	205	$0.00
Fabrication of Long Lead Items		207	01-Feb-12	25-Aug-12	205	$0.00
FAB-1000	Fabrication of Windows bldg 510	100	01-Feb-12	10-May-12	19	$0.00
FAB-1010	Fabrication of Fixed Audience Seating bldg 510	120	01-Feb-12	30-May-12	32	$0.00
FAB-1030	Fabrication of Clean Room Wall System bldg 510	85	01-Feb-12	25-Apr-12	0	$0.00
FAB-1040	Fabrication of Doors & Frames bldg 555	150	01-Feb-12	29-Jun-12	187	$0.00
FAB-1060	Fabrication of Steel Framing	75	02-Feb-12	16-Apr-12	37	$0.00
FAB-1050	Fabrication of Doors & Frames bldg 510	30	03-Feb-12	03-Mar-12	105	$0.00
FAB-1070	Fabrication of Sound Panels bldg 510	40	03-Feb-12	13-Mar-12	96	$0.00
FAB-1080	Fabrication of Windows bldg 555	30	03-Feb-12	03-Mar-12	362	$0.00
FAB-1020	Fabrication of Operable Wall Partition bldg 510	170	04-Feb-12	22-Jul-12	0	$0.00
FAB-1100	Fabrication of Elevators bldg 510	175	08-Feb-12	31-Jul-12	230	$0.00
FAB-1110	Fabrication of Office Furniture bldg 510	200	08-Feb-12	25-Aug-12	205	$0.00
FAB-1120	Fabrication of Office Furniture bldg 555	200	08-Feb-12	25-Aug-12	130	$0.00
FAB-1130	Fabrication of Laboratory Equipment bldg bldg 555	180	08-Feb-12	05-Aug-12	56	$0.00
FAB-1140	Fabrication of Elevators bldg 555	150	08-Feb-12	06-Jul-12	180	$0.00
FAB-1150	Fabrication of Tiles bldg 510	120	09-Mar-12	06-Jul-12	3	$0.00
FAB-1160	Fabrication of Tiles bldg 555	160	09-Mar-12	15-Aug-12	173	$0.00
FAB-1170	Fabrication of Manifold Exhaust System Fans bldg 555	30	19-Mar-12	18-Apr-12	287	$0.00
FAB-1090	Fabrication of AHU bldg 510	15	18-May-12	01-Jun-12	3	$0.00
Delivery of Long Lead Items		176	04-Mar-12	26-Aug-12	205	$0.00
DEL-1010	Doors & Frames bldg 510 Delivery	1	04-Mar-12	04-Mar-12	105	$0.00
DEL-1020	Windows bldg 555 Delivery	1	04-Mar-12	04-Mar-12	362	$0.00
DEL-1040	Sound Panels bldg 510 Delivery	1	14-Mar-12	14-Mar-12	96	$0.00
DEL-1030	Steel Framing Delivery	1	17-Apr-12	17-Apr-12	37	$0.00
DEL-1050	Manifold Exhaust System Fans bldg 555 Delivery	1	18-Apr-12	19-Apr-12	287	$0.00
DEL-1060	Clean Room Wall System bldg 510 Delivery	1	26-Apr-12	26-Apr-12	0	$0.00
DEL-1000	Windows bldg 510 Delivery	1	11-May-12	11-May-12	19	$0.00
DEL-1070	Fixed Audience Seating bldg 510 Delivery	1	31-May-12	31-May-12	32	$0.00
DEL-1100	AHU bldg 510 Delivery	2	02-Jun-12	03-Jun-12	3	$0.00
DEL-1090	Doors & Frames bldg 555 Delivery	1	30-Jun-12	30-Jun-12	187	$0.00
DEL-1110	Tiles bldg 510 Delivery	1	07-Jul-12	07-Jul-12	3	$0.00
DEL-1120	Elevators bldg 555 Delivery	1	07-Jul-12	07-Jul-12	180	$0.00
DEL-1080	Operable Wall Partition bldg 510 Delivery	1	23-Jul-12	23-Jul-12	0	$0.00
DEL-1130	Elevators bldg 510 Delivery	1	01-Aug-12	01-Aug-12	230	$0.00
DEL-1140	Laboratory Equipment bldg 555 Delivery	1	06-Aug-12	06-Aug-12	56	$0.00
DEL-1150	Tiles bldg 555 Delivery	1	16-Aug-12	16-Aug-12	173	$0.00

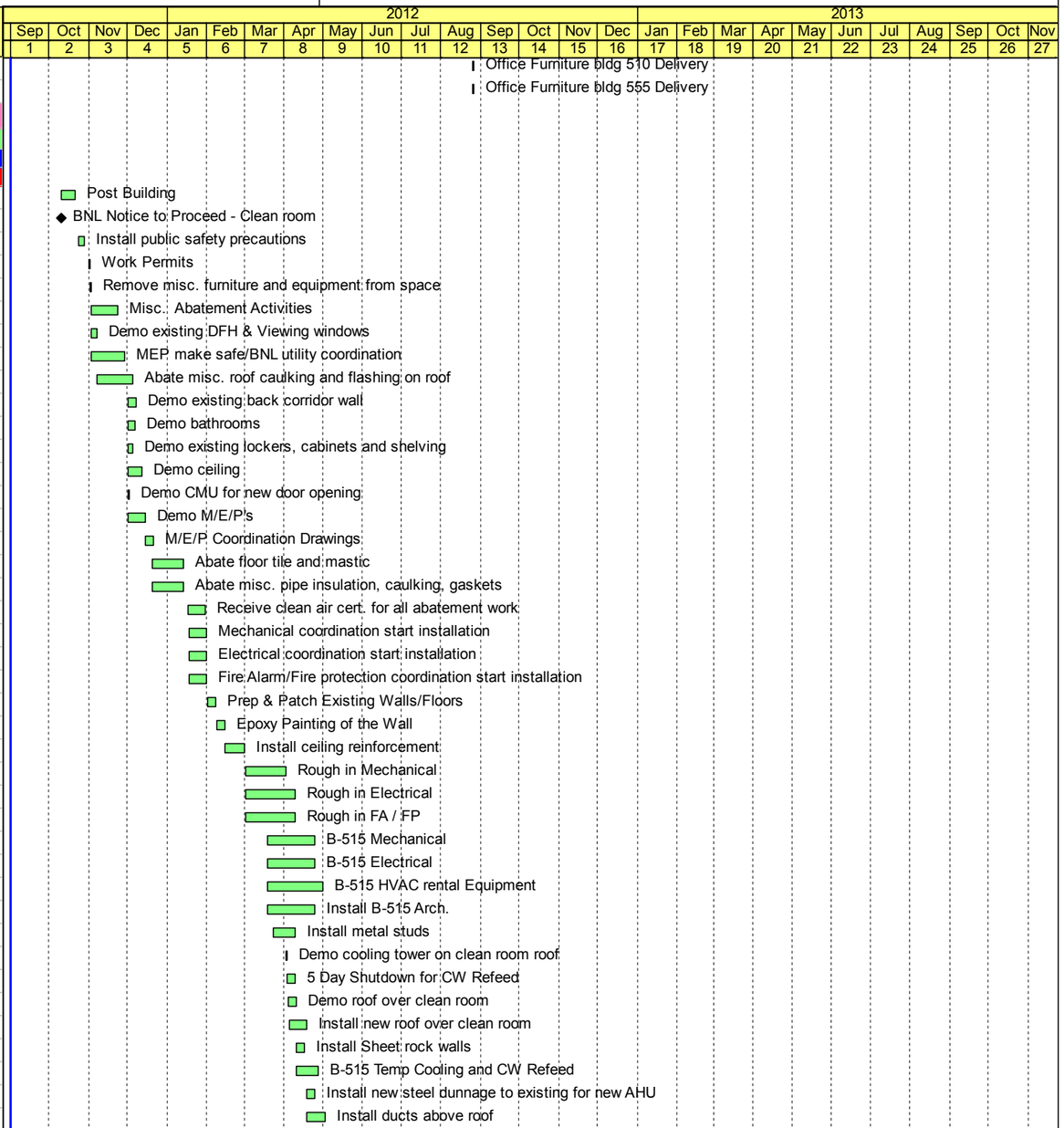


U.W. MARX CONSTRUCTION COMPANY

Renovate Science Labs - Phase II - Baseline change

HSE CPM Scheduling Consultants

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Budgeted Total Cost
DEL-1160	Office Furniture bldg 510 Delivery	1	26-Aug-12	26-Aug-12	205	$0.00
DEL-1170	Office Furniture bldg 555 Delivery	1	26-Aug-12	26-Aug-12	130	$0.00
Construction		468	01-Sep-11	31-Jul-13	0	$33,545,449.00
Renovations Bldg. 510		441	10-Oct-11	31-Jul-13	0	$19,620,182.44
Renovations Bldg 510 Phase I		205	10-Oct-11	15-Aug-12	236	$5,468,733.67
Clean Room		204	10-Oct-11	14-Aug-12	237	$2,793,258.00
A2840	Post Building	10	10-Oct-11	21-Oct-11	14	$0.00
A4070	BNL Notice to Proceed - Clean room	0	10-Oct-11*		0	$0.00
A2860	Install public safety precautions	5	24-Oct-11	28-Oct-11	14	$0.00
A4500	Work Permits	1	01-Nov-11	01-Nov-11	14	$0.00
A3020	Remove misc. furniture and equipment from space	1	02-Nov-11	02-Nov-11	14	$2,000.00
A2850	Misc. Abatement Activities	14	03-Nov-11	23-Nov-11	43	$18,000.00
A2920	Demo existing DFH & Viewing windows	3	03-Nov-11	07-Nov-11	40	$12,500.00
A4510	MEP make safe/BNL utility coordination	15	03-Nov-11	28-Nov-11	14	$15,000.00
A2890	Abate misc. roof caulking and flashing on roof	15	07-Nov-11	05-Dec-11	99	$0.00
A2930	Demo existing back corridor wall	5	01-Dec-11	07-Dec-11	22	$20,000.00
A2940	Demo bathrooms	4	01-Dec-11	06-Dec-11	23	$12,500.00
A2950	Demo existing lockers, cabinets and shelving	3	01-Dec-11	05-Dec-11	25	$12,500.00
A2960	Demo ceiling	8	01-Dec-11	12-Dec-11	14	$48,000.00
A2980	Demo CMU for new door opening	1	01-Dec-11	02-Dec-11	26	$12,500.00
A4470	Demo M/E/P's	10	01-Dec-11	14-Dec-11	28	$36,000.00
A4410	M/E/P Coordination Drawings	5	15-Dec-11	21-Dec-11	28	$0.00
A2870	Abate floor tile and mastic	15	20-Dec-11	13-Jan-12	14	$10,000.00
A2880	Abate misc. pipe insulation, caulking, gaskets	15	20-Dec-11	13-Jan-12	14	$22,500.00
A2900	Receive clean air cert. for all abatement work	10	17-Jan-12	30-Jan-12	14	$0.00
A3030	Mechanical coordination start installation	10	18-Jan-12	31-Jan-12	23	$125,000.00
A3040	Electrical coordination start installation	10	18-Jan-12	31-Jan-12	26	$75,000.00
A3050	Fire Alarm/Fire protection coordination start installation	10	18-Jan-12	31-Jan-12	14	$70,000.00
CR-1000	Prep & Patch Existing Walls/Floors	5	01-Feb-12	07-Feb-12	14	$25,000.00
CR-1010	Epoxy Painting of the Wall	5	08-Feb-12	14-Feb-12	14	$29,000.00
CR-1020	Install ceiling reinforcement	9	15-Feb-12	01-Mar-12	14	$25,000.00
CR-1030	Rough in Mechanical	20	02-Mar-12	02-Apr-12	14	$140,000.00
CR-1040	Rough in Electrical	25	02-Mar-12	09-Apr-12	17	$50,000.00
CR-1050	Rough in FA / FP	25	02-Mar-12	09-Apr-12	28	$50,000.00
CR-1370	B-515 Mechanical	25	19-Mar-12	24-Apr-12	30	$308,125.00
CR-1380	B-515 Electrical	25	19-Mar-12	24-Apr-12	17	$66,124.00
CR-1390	B-515 HVAC rental Equipment	30	19-Mar-12	01-May-12	30	$83,125.00
CR-1400	Install B-515 Arch.	25	19-Mar-12	24-Apr-12	30	$8,200.00
CR-1060	Install metal studs	10	23-Mar-12	09-Apr-12	14	$66,666.00
CR-1070	Demo cooling tower on clean room roof	2	02-Apr-12*	03-Apr-12	21	$30,000.00
CR-1080	5 Day Shutdown for CW Refeed	5	03-Apr-12	09-Apr-12	178	$25,000.00
CR-1090	Demo roof over clean room	5	04-Apr-12	10-Apr-12	21	$50,000.00
CR-1130	Install new roof over clean room	10	05-Apr-12	18-Apr-12	21	$150,000.00
CR-1110	Install Sheet rock walls	5	10-Apr-12	16-Apr-12	14	$5,000.00
CR-1120	B-515 Temp Cooling and CW Refeed	14	10-Apr-12	27-Apr-12	180	$75,000.00
CR-1140	Install new steel dunnage to existing for new AHU	5	18-Apr-12	24-Apr-12	27	$50,000.00
CR-1160	Install ducts above roof	10	18-Apr-12	02-May-12	21	$50,000.00

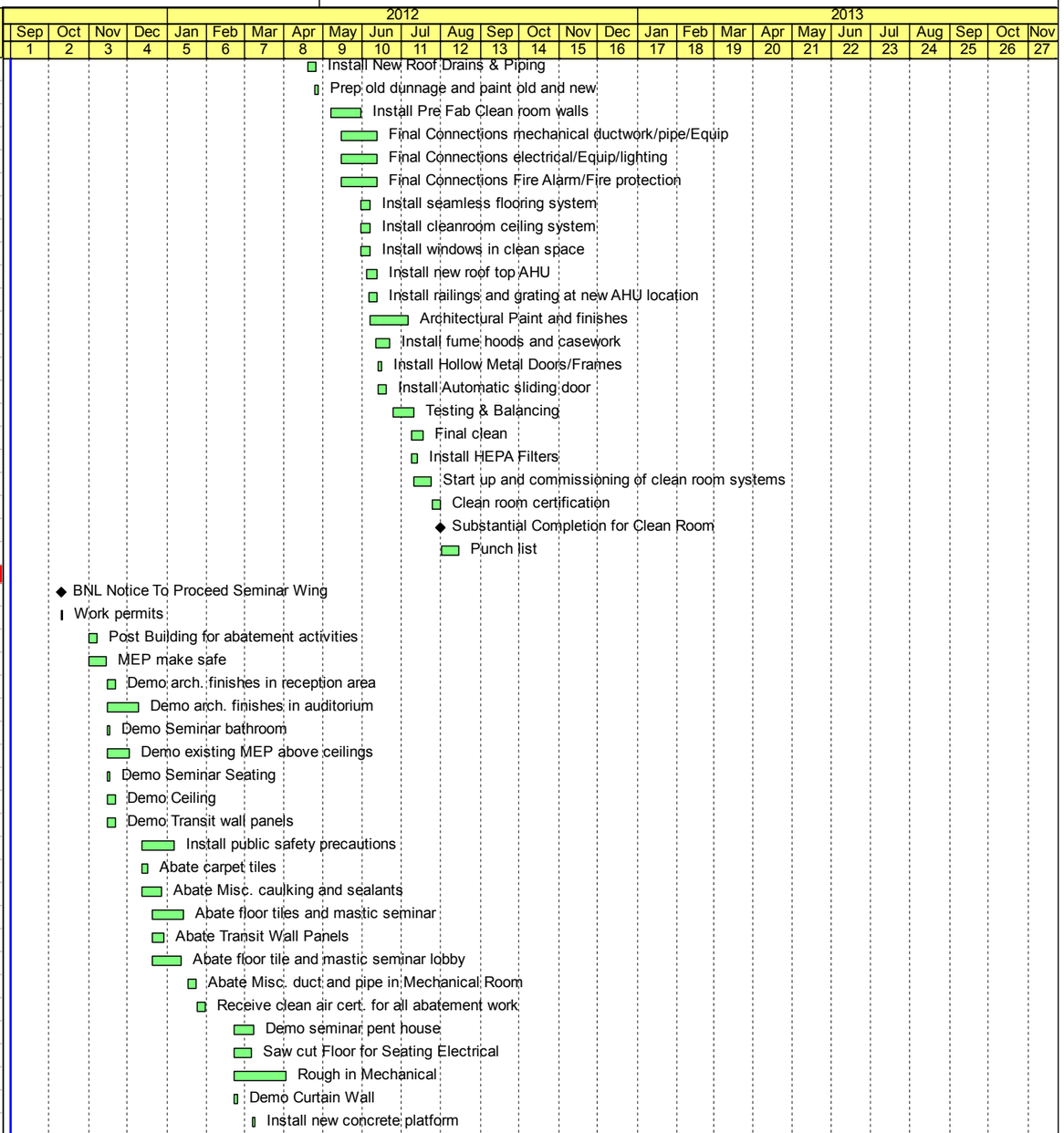


U.W. MARX CONSTRUCTION COMPANY

Renovate Science Labs - Phase II - Baseline change

HSE CPM Scheduling Consultants

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Budgeted Total Cost
CR-1170	Install New Roof Drains & Piping	5	19-Apr-12	25-Apr-12	66	$12,000.00
CR-1150	Prep old dunnage and paint old and new	3	24-Apr-12	27-Apr-12	27	$50,000.00
CR-1180	Install Pre Fab Clean room walls	17	07-May-12	30-May-12	0	$160,000.00
CR-1210	Final Connections mechanical ductwork/pipe/Equip	20	15-May-12	12-Jun-12	3	$130,000.00
CR-1220	Final Connections electrical/Equip/lighting	20	15-May-12	12-Jun-12	3	$80,000.00
CR-1100	Final Connections Fire Alarm/Fire protection	20	15-May-12	12-Jun-12	3	$50,000.00
CR-1230	Install seamless flooring system	5	31-May-12	06-Jun-12	0	$25,000.00
CR-1240	Install cleanroom ceiling system	5	31-May-12	06-Jun-12	24	$75,000.00
CR-1250	Install windows in clean space	5	31-May-12	06-Jun-12	0	$2,000.00
CR-1190	Install new roof top AHU	7	04-Jun-12	12-Jun-12	3	$155,000.00
CR-1200	Install railings and grating at new AHU location	5	06-Jun-12	12-Jun-12	20	$50,000.00
CR-1280	Architectural Paint and finishes	20	07-Jun-12	06-Jul-12	0	$71,518.00
CR-1290	Install fume hoods and casework	10	11-Jun-12	22-Jun-12	0	$50,000.00
CR-1260	Install Hollow Metal Doors/Frames	3	13-Jun-12	15-Jun-12	3	$20,000.00
CR-1270	Install Automatic sliding door	5	13-Jun-12	19-Jun-12	3	$25,000.00
CR-1300	Testing & Balancing	10	25-Jun-12	10-Jul-12	0	$10,000.00
CR-1320	Final clean	8	09-Jul-12	18-Jul-12	4	$12,000.00
CR-1330	Install HEPA Filters	5	09-Jul-12	13-Jul-12	7	$15,000.00
CR-1310	Start up and commissioning of clean room systems	10	11-Jul-12	24-Jul-12	0	$15,000.00
CR-1340	Clean room certification	5	25-Jul-12	31-Jul-12	0	$8,000.00
CR-1350	Substantial Completion for Clean Room	0		31-Jul-12*	0	$0.00
CR-1360	Punch list	10	01-Aug-12	14-Aug-12	237	$0.00
Seminar Wing		205	10-Oct-11	15-Aug-12	236	$2,675,475.67
A4080	BNL Notice To Proceed Seminar Wing	0	10-Oct-11*		0	$0.00
A4520	Work permits	2	10-Oct-11	11-Oct-11	36	$0.00
A3310	Post Building for abatement activities	5	01-Nov-11	07-Nov-11	22	$5,000.00
A4140	MEP make safe	9	01-Nov-11	14-Nov-11	22	$31,216.67
A3390	Demo arch. finishes in reception area	5	15-Nov-11	21-Nov-11	38	$20,000.00
A3400	Demo arch. finishes in auditorium	15	15-Nov-11	09-Dec-11	22	$60,000.00
A3410	Demo Seminar bathroom	3	15-Nov-11	17-Nov-11	40	$10,000.00
A3420	Demo existing MEP above ceilings	10	15-Nov-11	02-Dec-11	33	$30,000.00
A4340	Demo Seminar Seating	3	15-Nov-11	17-Nov-11	40	$3,500.00
A4530	Demo Ceiling	5	15-Nov-11	21-Nov-11	38	$7,000.00
A3320	Demo Transit wall panels	5	15-Nov-11	21-Nov-11	60	$50,000.00
A3300	Install public safety precautions	16	12-Dec-11	06-Jan-12	52	$5,000.00
A3340	Abate carpet tiles	5	12-Dec-11	16-Dec-11	43	$20,000.00
A3360	Abate Misc. caulking and sealants	10	12-Dec-11	27-Dec-11	38	$25,000.00
A3330	Abate floor tiles and mastic seminar	15	20-Dec-11	13-Jan-12	22	$95,000.00
A3350	Abate Transit Wall Panels	6	20-Dec-11	29-Dec-11	38	$40,000.00
A3720	Abate floor tile and mastic seminar lobby	13	20-Dec-11	11-Jan-12	22	$60,000.00
A3370	Abate Misc. duct and pipe in Mechanical Room	5	17-Jan-12	23-Jan-12	22	$60,000.00
A3380	Receive clean air cert. for all abatement work	5	24-Jan-12	30-Jan-12	22	$0.00
SR-1000	Demo seminar pent house	10	22-Feb-12	08-Mar-12	87	$30,000.00
SR-1010	Saw cut Floor for Seating Electrical	8	22-Feb-12*	06-Mar-12	81	$5,000.00
SR-1020	Rough in Mechanical	25	22-Feb-12	02-Apr-12	22	$248,759.00
SR-1030	Demo Curtain Wall	3	22-Feb-12*	24-Feb-12	74	$20,000.00
SR-1040	Install new concrete platform	3	07-Mar-12*	09-Mar-12	36	$10,000.00



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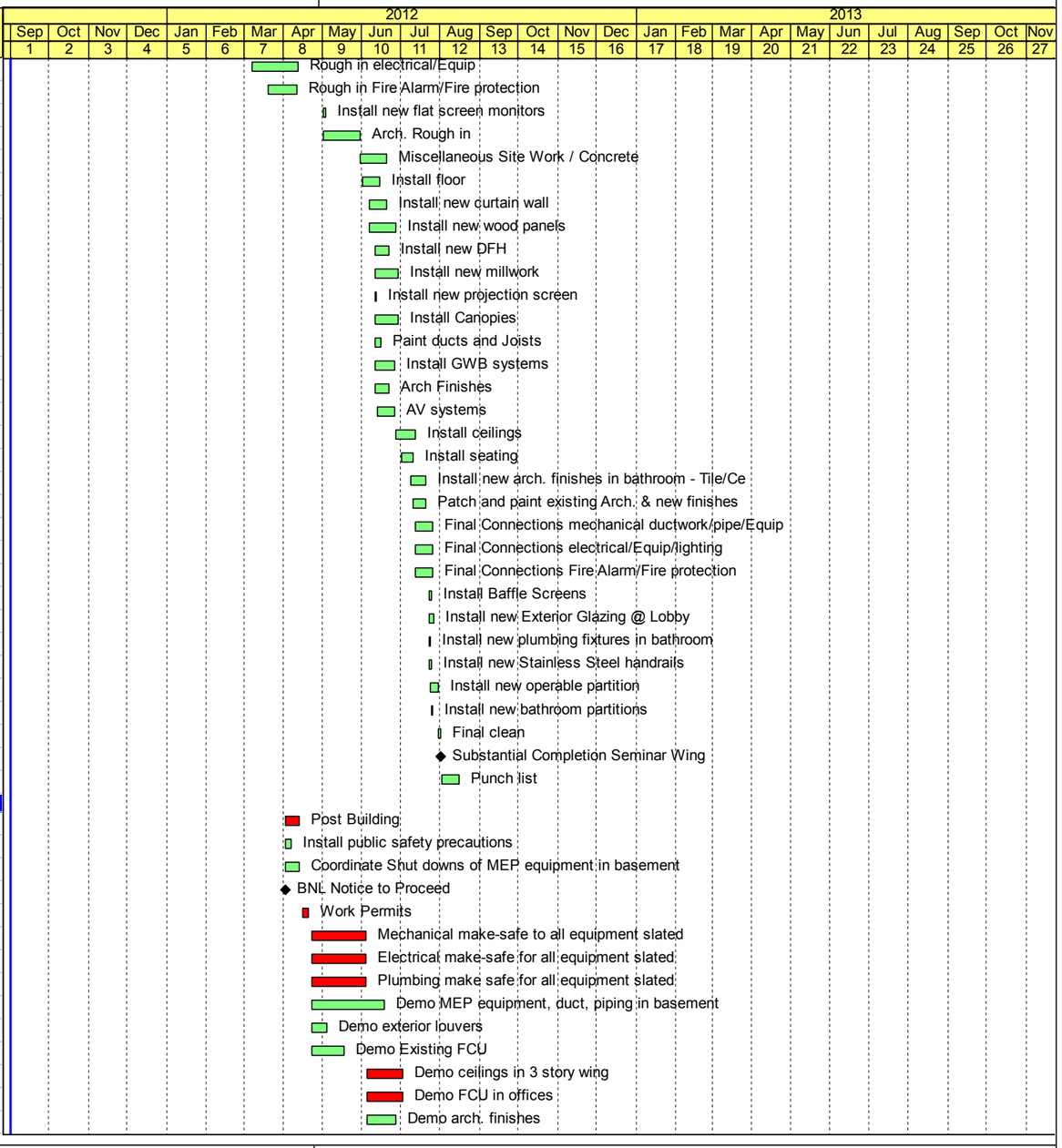
Renovate Science Labs - Phase II - Baseline change

HSE CPM Scheduling Consultants

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Budgeted Total Cost
SR-1050	Rough in electrical/Equip	25	07-Mar-12*	12-Apr-12	14	$150,000.00
SR-1060	Rough in Fire Alarm/Fire protection	15	20-Mar-12	11-Apr-12	1	$95,000.00
SR-1210	Install new flat screen monitors	2	02-May-12	03-May-12	33	$5,000.00
SR-1110	Arch. Rough in	20	02-May-12	30-May-12	1	$30,000.00
SR-1070	Miscellaneous Site Work / Concrete	15	30-May-12	20-Jun-12	28	$50,000.00
SR-1200	Install floor	10	01-Jun-12*	14-Jun-12	12	$55,000.00
SR-1170	Install new curtain wall	10	07-Jun-12*	20-Jun-12	6	$40,000.00
SR-1160	Install new wood panels	15	07-Jun-12	27-Jun-12	8	$30,000.00
SR-1150	Install new DFH	10	11-Jun-12	22-Jun-12	10	$10,000.00
SR-1180	Install new millwork	15	11-Jun-12	29-Jun-12	14	$50,000.00
SR-1220	Install new projection screen	2	11-Jun-12	12-Jun-12	22	$5,000.00
SR-1190	Install Canopies	15	11-Jun-12	29-Jun-12	1	$22,000.00
SR-1080	Paint ducts and Joists	5	11-Jun-12	15-Jun-12	19	$21,000.00
SR-1090	Install GWB systems	12	11-Jun-12	26-Jun-12	2	$0.00
SR-1360	Arch Finishes	10	11-Jun-12	22-Jun-12	24	$80,000.00
SR-1230	AV systems	10	13-Jun-12	26-Jun-12	22	$165,000.00
SR-1100	Install ceilings	10	27-Jun-12	12-Jul-12	2	$180,000.00
SR-1240	Install seating	5	02-Jul-12	10-Jul-12	1	$100,000.00
SR-1250	Install new arch. finishes in bathroom - Tile/Ce	10	09-Jul-12	20-Jul-12	2	$8,000.00
SR-1260	Patch and paint existing Arch. & new finishes	8	11-Jul-12	20-Jul-12	1	$20,000.00
SR-1120	Final Connections mechanical ductwork/pipe/Equip	10	13-Jul-12	26-Jul-12	2	$300,000.00
SR-1130	Final Connections electrical/Equip/lighting	10	13-Jul-12	26-Jul-12	2	$200,000.00
SR-1140	Final Connections Fire Alarm/Fire protection	10	13-Jul-12	26-Jul-12	2	$50,000.00
SR-1280	Install Baffle Screens	3	23-Jul-12	25-Jul-12	3	$25,000.00
SR-1300	Install new Exterior Glazing @ Lobby	5	23-Jul-12	27-Jul-12	1	$22,000.00
SR-1270	Install new plumbing fixtures in bathroom	2	23-Jul-12	24-Jul-12	2	$10,000.00
SR-1310	Install new Stainless Steel handrails	3	23-Jul-12	25-Jul-12	3	$22,000.00
SR-1290	Install new operable partition	5	24-Jul-12	30-Jul-12	0	$80,000.00
SR-1320	Install new bathroom partitions	2	25-Jul-12	26-Jul-12	2	$10,000.00
SR-1330	Final clean	2	31-Jul-12	01-Aug-12	0	$5,000.00
SR-1340	Substantial Completion Seminar Wing	0		01-Aug-12*	0	$0.00
SR-1350	Punch list	10	02-Aug-12	15-Aug-12	236	$0.00
Renovations Bldg 510 Phase II		331	02-Apr-12	31-Jul-13	0	$14,151,448.77
B510-1000	Post Building	10	02-Apr-12	13-Apr-12	0	$5,000.00
B510-1010	Install public safety precautions	5	02-Apr-12	06-Apr-12	5	$5,000.00
B510-1020	Coordinate Shut downs of MEP equipment in basement	10	02-Apr-12	13-Apr-12	70	$0.00
B510-1030	BNL Notice to Proceed	0	02-Apr-12*		0	$0.00
B510-1040	Work Permits	5	16-Apr-12	20-Apr-12	0	$0.00
B510-1050	Mechanical make-safe to all equipment slated	30	23-Apr-12	04-Jun-12	0	$50,000.00
B510-1060	Electrical make-safe for all equipment slated	30	23-Apr-12	04-Jun-12	0	$53,595.00
B510-1070	Plumbing make safe for all equipment slated	30	23-Apr-12	04-Jun-12	0	$30,000.00
B510-1080	Demo MEP equipment, duct, piping in basement	40	23-Apr-12	18-Jun-12	120	$100,000.00
B510-1090	Demo exterior louvers	10	23-Apr-12	04-May-12	75	$21,000.00
B510-1100	Demo Existing FCU	20	23-Apr-12	18-May-12	30	$50,000.00
B510-1110	Demo ceilings in 3 story wing	20	05-Jun-12	02-Jul-12	0	$47,000.00
B510-1120	Demo FCU in offices	20	05-Jun-12	02-Jul-12	0	$80,000.00
B510-1130	Demo arch. finishes	17	05-Jun-12	27-Jun-12	3	$50,000.00

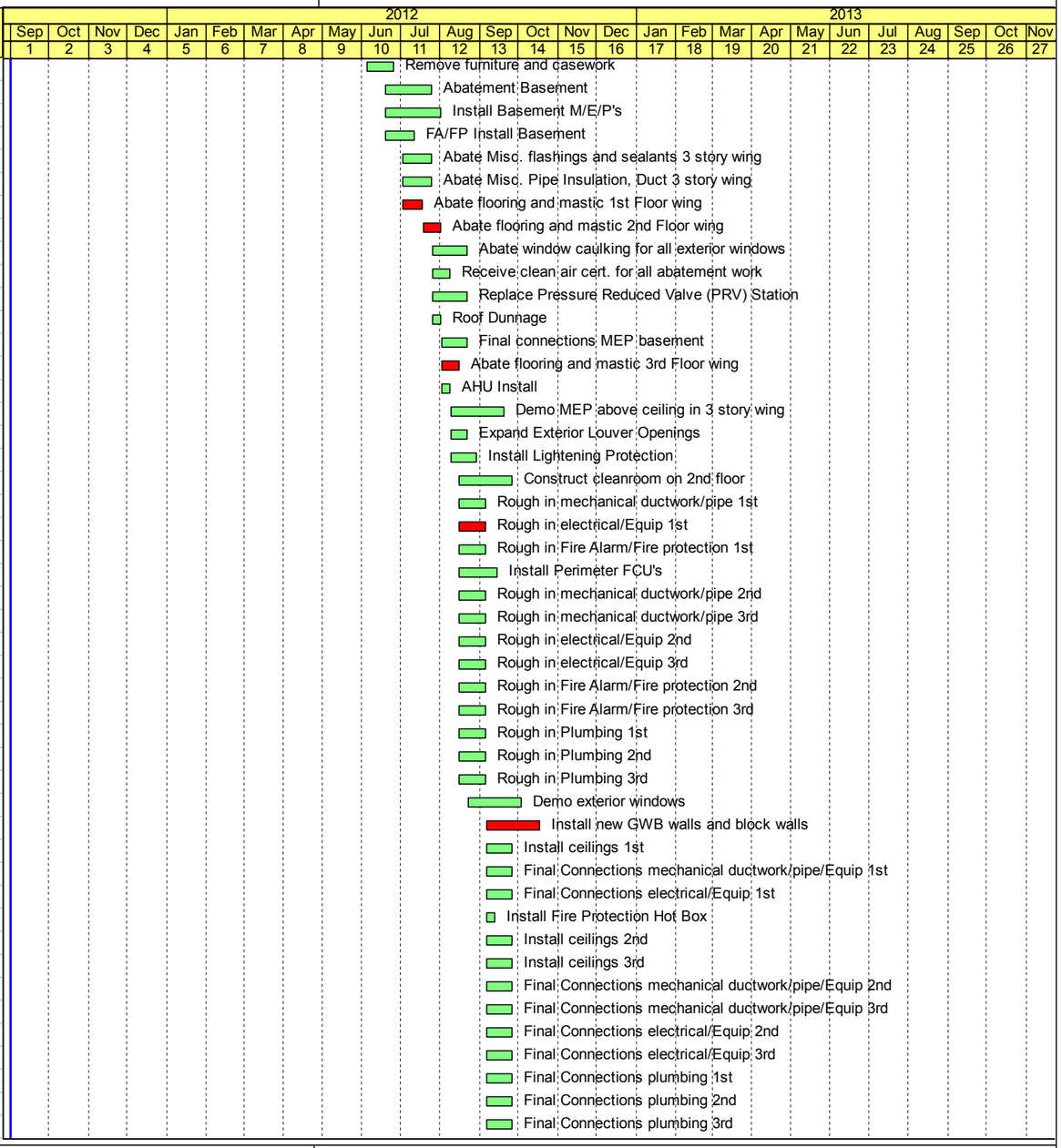


U.W. MARX CONSTRUCTION COMPANY

Renovate Science Labs - Phase II - Baseline change

HSE CPM Scheduling Consultants

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Budgeted Total Cost
B510-1140	Remove furniture and casework	15	05-Jun-12	25-Jun-12	5	$80,000.00
B510-1150	Abatement Basement	25	19-Jun-12	25-Jul-12	120	$150,000.00
B510-1160	Install Basement M/E/P's	30	19-Jun-12	01-Aug-12	145	$300,000.00
B510-1170	FA/FP Install Basement	15	19-Jun-12	11-Jul-12	160	$91,000.00
B510-1180	Abate Misc. flashings and sealants 3 story wing	15	03-Jul-12	25-Jul-12	5	$25,000.00
B510-1190	Abate Misc. Pipe Insulation, Duct 3 story wing	15	03-Jul-12	25-Jul-12	15	$100,000.00
B510-1200	Abate flooring and mastic 1st Floor wing	10	03-Jul-12	18-Jul-12	0	$83,333.00
B510-1210	Abate flooring and mastic 2nd Floor wing	10	19-Jul-12	01-Aug-12	0	$83,334.00
B510-1220	Abate window caulking for all exterior windows	20	26-Jul-12	22-Aug-12	125	$40,000.00
B510-1230	Receive clean air cert. for all abatement work	10	26-Jul-12	08-Aug-12	5	$45,317.00
B510-1240	Replace Pressure Reduced Valve (PRV) Station	20	26-Jul-12	22-Aug-12	120	$200,000.00
B510-1250	Roof Dunnage	5	26-Jul-12	01-Aug-12	188	$90,000.00
B510-1260	Final connections MEP basement	15	02-Aug-12	22-Aug-12	145	$75,000.00
B510-1270	Abate flooring and mastic 3rd Floor wing	10	02-Aug-12	15-Aug-12	0	$83,333.00
B510-1280	AHU Install	5	02-Aug-12	08-Aug-12	185	$200,000.00
B510-1290	Demo MEP above ceiling in 3 story wing	30	09-Aug-12	19-Sep-12	155	$80,000.00
B510-1300	Expand Exterior Louver Openings	10	09-Aug-12	22-Aug-12	10	$30,000.00
B510-1310	Install Lightening Protection	15	09-Aug-12	29-Aug-12	5	$85,000.00
B510-1320	Construct cleanroom on 2nd floor	30	16-Aug-12	26-Sep-12	150	$150,000.00
B510-1330	Rough in mechanical ductwork/pipe 1st	15	16-Aug-12	05-Sep-12	110	$725,000.00
B510-1340	Rough in electrical/Equip 1st	15	16-Aug-12	05-Sep-12	0	$620,176.00
B510-1350	Rough in Fire Alarm/Fire protection 1st	15	16-Aug-12	05-Sep-12	115	$78,342.00
B510-1360	Install Perimeter FCU's	22	16-Aug-12	14-Sep-12	153	$125,000.00
B510-1370	Rough in mechanical ductwork/pipe 2nd	15	16-Aug-12	05-Sep-12	110	$725,000.00
B510-1380	Rough in mechanical ductwork/pipe 3rd	15	16-Aug-12	05-Sep-12	110	$725,000.00
B510-1390	Rough in electrical/Equip 2nd	15	16-Aug-12	05-Sep-12	120	$620,176.00
B510-1400	Rough in electrical/Equip 3rd	15	16-Aug-12	05-Sep-12	120	$620,176.00
B510-1410	Rough in Fire Alarm/Fire protection 2nd	15	16-Aug-12	05-Sep-12	115	$58,333.37
B510-1420	Rough in Fire Alarm/Fire protection 3rd	15	16-Aug-12	05-Sep-12	115	$58,333.35
B510-1430	Rough in Plumbing 1st	15	16-Aug-12	05-Sep-12	120	$200,000.00
B510-1440	Rough in Plumbing 2nd	15	16-Aug-12	05-Sep-12	120	$200,000.00
B510-1450	Rough in Plumbing 3rd	15	16-Aug-12	05-Sep-12	120	$200,000.00
B510-1460	Demo exterior windows	30	23-Aug-12	03-Oct-12	125	$78,000.00
B510-1470	Install new GWB walls and block walls	30	06-Sep-12	17-Oct-12	0	$58,000.00
B510-1480	Install ceilings 1st	15	06-Sep-12	26-Sep-12	15	$95,000.00
B510-1490	Final Connections mechanical ductwork/pipe/Equip 1st	15	06-Sep-12	26-Sep-12	110	$650,000.00
B510-1500	Final Connections electrical/Equip 1st	15	06-Sep-12	26-Sep-12	120	$408,333.35
B510-1510	Install Fire Protection Hot Box	5	06-Sep-12	12-Sep-12	115	$45,000.00
B510-1520	Install ceilings 2nd	15	06-Sep-12	26-Sep-12	15	$95,000.00
B510-1530	Install ceilings 3rd	15	06-Sep-12	26-Sep-12	15	$95,000.00
B510-1540	Final Connections mechanical ductwork/pipe/Equip 2nd	15	06-Sep-12	26-Sep-12	110	$650,000.00
B510-1550	Final Connections mechanical ductwork/pipe/Equip 3rd	15	06-Sep-12	26-Sep-12	110	$700,000.00
B510-1560	Final Connections electrical/Equip 2nd	15	06-Sep-12	26-Sep-12	120	$408,333.35
B510-1570	Final Connections electrical/Equip 3rd	15	06-Sep-12	26-Sep-12	120	$408,333.35
B510-1580	Final Connections plumbing 1st	15	06-Sep-12	26-Sep-12	120	$60,000.00
B510-1590	Final Connections plumbing 2nd	15	06-Sep-12	26-Sep-12	120	$60,000.00
B510-1600	Final Connections plumbing 3rd	15	06-Sep-12	26-Sep-12	120	$60,000.00

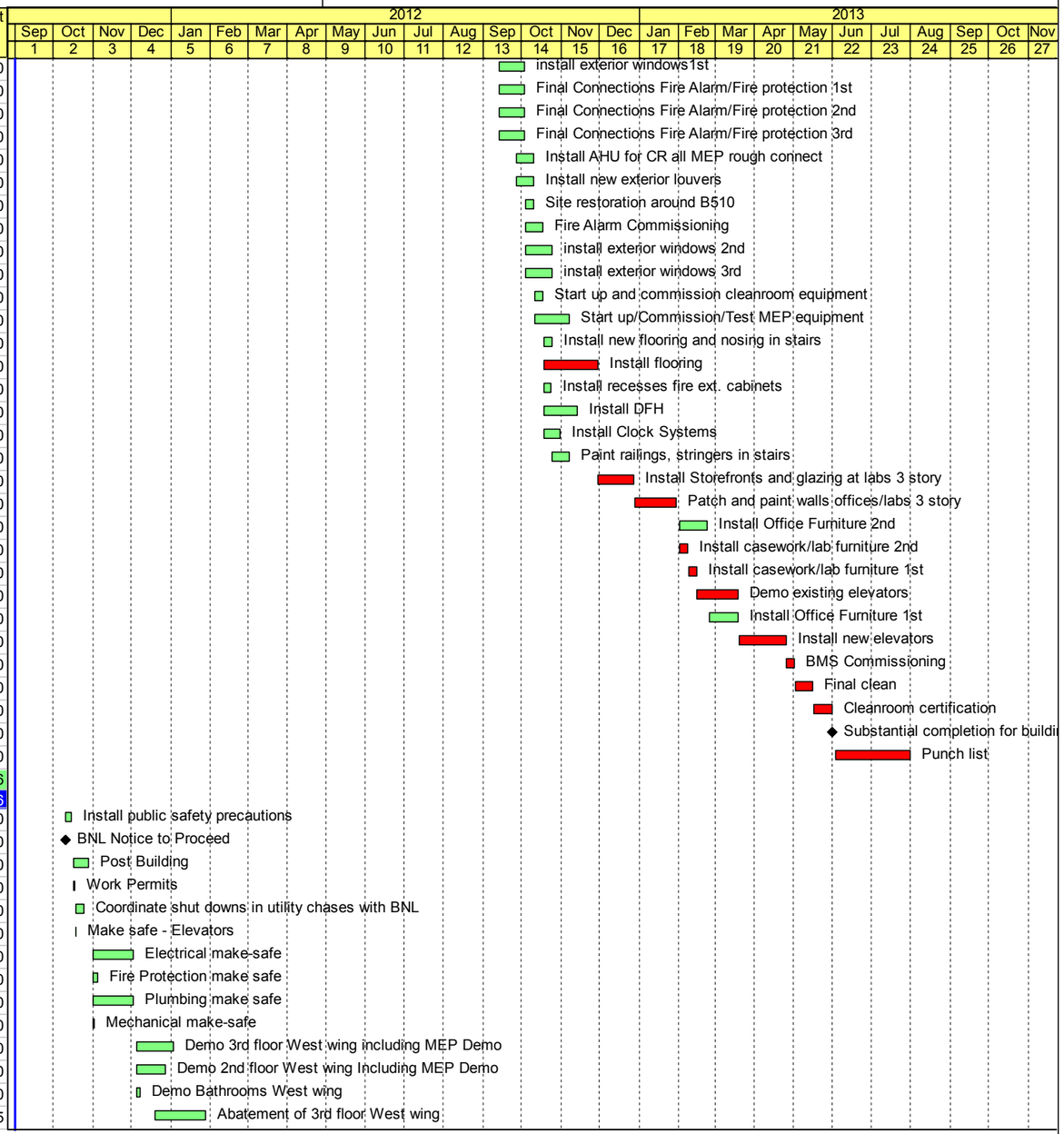


U.W. MARX CONSTRUCTION COMPANY

Renovate Science Labs - Phase II - Baseline change

HSE CPM Scheduling Consultants

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Budgeted Total Cost
B510-1610	install exterior windows1st	15	13-Sep-12	03-Oct-12	135	$50,000.00
B510-1620	Final Connections Fire Alarm/Fire protection 1st	15	13-Sep-12	03-Oct-12	115	$26,000.00
B510-1630	Final Connections Fire Alarm/Fire protection 2nd	15	13-Sep-12	03-Oct-12	115	$26,000.00
B510-1640	Final Connections Fire Alarm/Fire protection 3rd	15	13-Sep-12	03-Oct-12	115	$26,000.00
B510-1650	Install AHU for CR all MEP rough connect	10	27-Sep-12	10-Oct-12	150	$225,000.00
B510-1660	Install new exterior louvers	10	27-Sep-12	10-Oct-12	110	$58,000.00
B510-1670	Site restoration around B510	5	04-Oct-12	10-Oct-12	135	$5,000.00
B510-1680	Fire Alarm Commissioning	10	04-Oct-12	17-Oct-12	130	$12,000.00
B510-1690	install exterior windows 2nd	15	04-Oct-12	24-Oct-12	125	$50,000.00
B510-1700	install exterior windows 3rd	15	04-Oct-12	24-Oct-12	125	$50,000.00
B510-1710	Start up and commission cleanroom equipment	5	11-Oct-12	17-Oct-12	150	$12,000.00
B510-1720	Start up/Commission/Test MEP equipment	20	11-Oct-12	07-Nov-12	110	$10,000.00
B510-1730	Install new flooring and nosing in stairs	5	18-Oct-12	24-Oct-12	115	$16,000.00
B510-1740	Install flooring	30	18-Oct-12	29-Nov-12	0	$150,000.00
B510-1750	Install recesses fire ext. cabinets	4	18-Oct-12	23-Oct-12	46	$5,000.00
B510-1760	Install DFH	19	18-Oct-12	13-Nov-12	31	$20,000.00
B510-1770	Install Clock Systems	10	18-Oct-12	31-Oct-12	120	$100,000.00
B510-1780	Paint railings, stringers in stairs	10	25-Oct-12	07-Nov-12	115	$10,000.00
B510-1790	Install Storefronts and glazing at labs 3 story	20	30-Nov-12	27-Dec-12	0	$85,000.00
B510-1800	Patch and paint walls offices/labs 3 story	20	28-Dec-12	29-Jan-13	0	$62,000.00
B510-1810	Install Office Furniture 2nd	15	01-Feb-13	22-Feb-13	30	$300,000.00
B510-1820	Install casework/lab furniture 2nd	5	01-Feb-13	07-Feb-13	0	$349,500.00
B510-1830	Install casework/lab furniture 1st	5	08-Feb-13	14-Feb-13	0	$349,500.00
B510-1840	Demo existing elevators	20	15-Feb-13	19-Mar-13	0	$60,000.00
B510-1850	Install Office Furniture 1st	15	25-Feb-13	19-Mar-13	30	$300,000.00
B510-1860	Install new elevators	25	20-Mar-13	25-Apr-13	0	$450,000.00
B510-1870	BMS Commissioning	5	26-Apr-13	02-May-13	0	$15,000.00
B510-1880	Final clean	10	03-May-13	16-May-13	0	$10,000.00
B510-1890	Cleanroom certification	10	17-May-13	31-May-13	0	$10,000.00
B510-1900	Substantial completion for building 510	0		31-May-13*	0	$0.00
B510-1910	Punch list	41	03-Jun-13	31-Jul-13	0	$0.00
Renovations Bldg. 555		352	10-Oct-11	21-Mar-13	89	$11,098,999.56
Renovations Bldg 555 Phase I		352	10-Oct-11	21-Mar-13	89	$11,098,999.56
A2300	Install public safety precautions	5	10-Oct-11	14-Oct-11	18	$0.00
A4100	BNL Notice to Proceed	0	10-Oct-11*		0	$0.00
A2310	Post Building	10	17-Oct-11	28-Oct-11	18	$0.00
A2830	Work Permits	1	17-Oct-11	17-Oct-11	23	$0.00
A2420	Coordinate shut downs in utility chases with BNL	5	18-Oct-11	24-Oct-11	23	$0.00
A5420	Make safe - Elevators	1	18-Oct-11	18-Oct-11	276	$0.00
A2430	Electrical make-safe	19	01-Nov-11	02-Dec-11	18	$3,250.00
A2970	Fire Protection make safe	4	01-Nov-11	04-Nov-11	33	$8,000.00
A2440	Plumbing make safe	19	01-Nov-11	02-Dec-11	18	$30,250.00
A2450	Mechanical make-safe	1	01-Nov-11	01-Nov-11	36	$44,000.00
A2480	Demo 3rd floor West wing including MEP Demo	17	05-Dec-11	02-Jan-12	28	$6,750.00
A2490	Demo 2nd floor West wing Including MEP Demo	15	05-Dec-11	27-Dec-11	18	$6,750.00
A2500	Demo Bathrooms West wing	3	05-Dec-11	07-Dec-11	25	$12,000.00
A2350	Abatement of 3rd floor West wing	25	19-Dec-11	27-Jan-12	18	$392,856.25

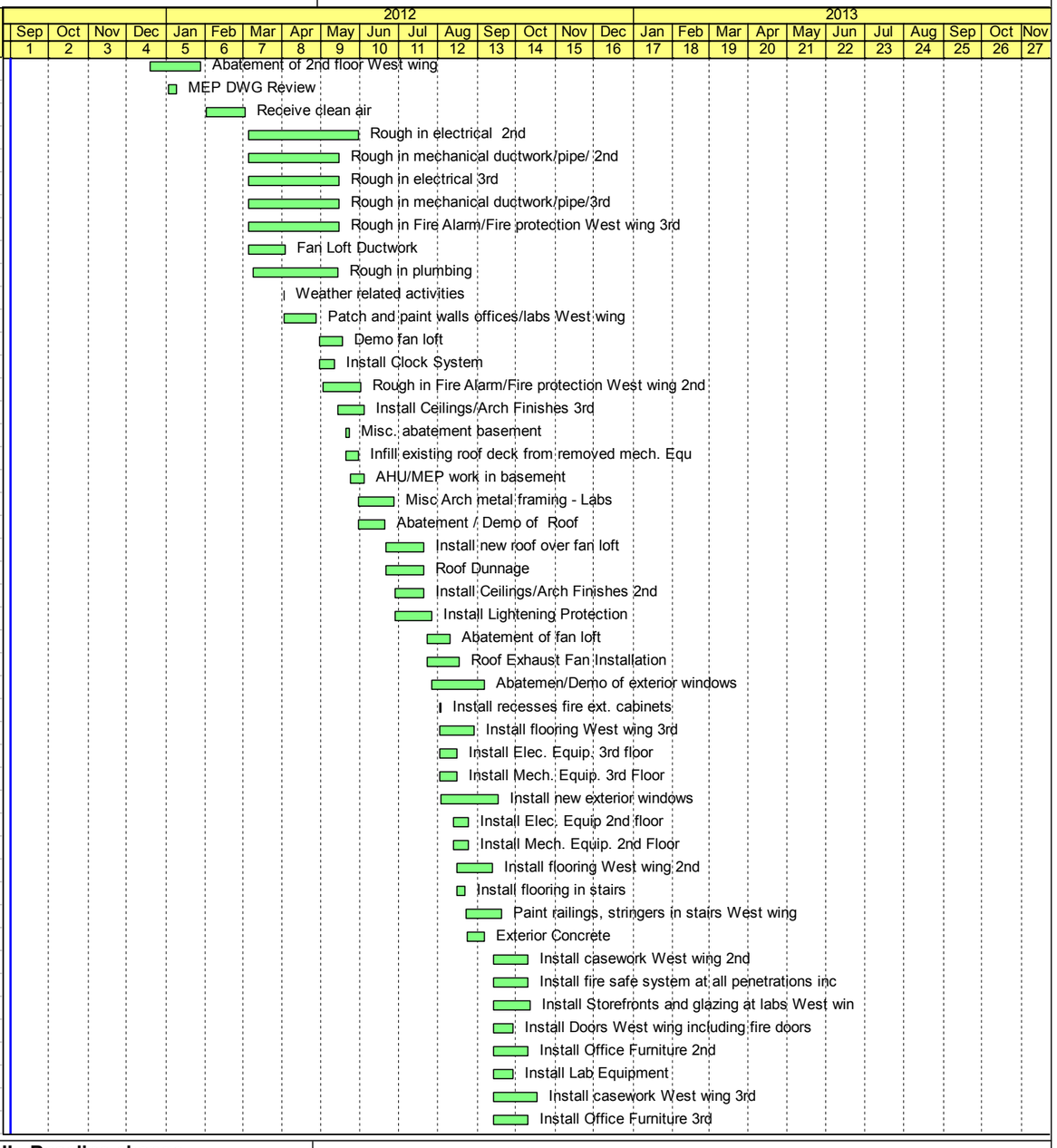


U.W. MARX CONSTRUCTION COMPANY

Renovate Science Labs - Phase II - Baseline change

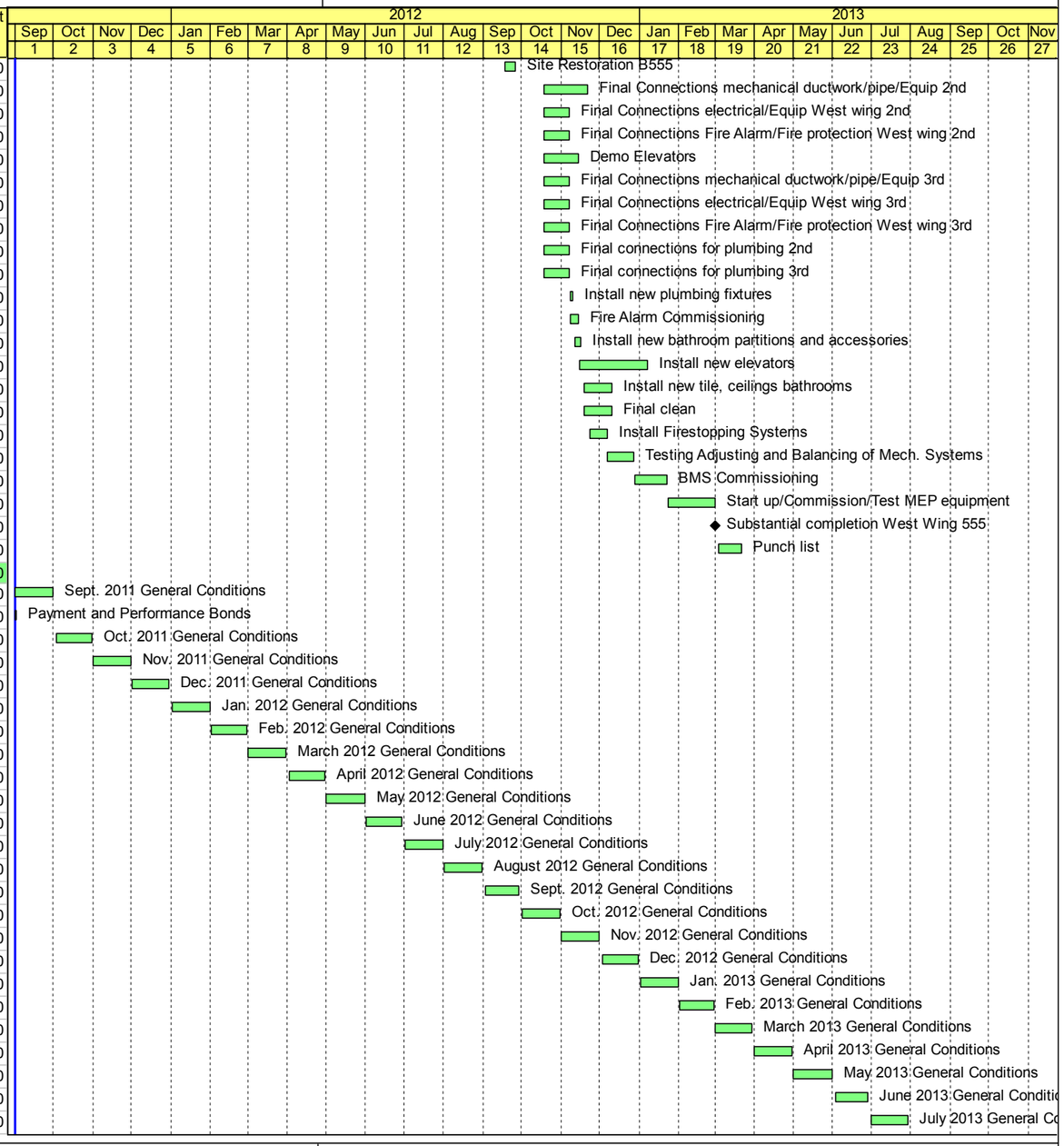
HSE CPM Scheduling Consultants

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Budgeted Total Cost
A2360	Abatement of 2nd floor West wing	25	19-Dec-11	27-Jan-12	18	$389,582.45
A4480	MEP DWG Review	5	02-Jan-12	09-Jan-12	73	$0.00
B555-1000	Receive clean air	20	01-Feb-12	02-Mar-12	18	$0.00
B555-1010	Rough in electrical 2nd	60	05-Mar-12	30-May-12	38	$425,000.00
B555-1020	Rough in mechanical ductwork/pipe/ 2nd	50	05-Mar-12	15-May-12	108	$512,500.00
B555-1030	Rough in electrical 3rd	50	05-Mar-12	15-May-12	128	$425,000.00
B555-1040	Rough in mechanical ductwork/pipe/3rd	50	05-Mar-12	15-May-12	108	$537,500.00
B555-1050	Rough in Fire Alarm/Fire protection West wing 3rd	50	05-Mar-12	15-May-12	128	$120,000.00
B555-1060	Fan Loft Ductwork	20	05-Mar-12	03-Apr-12	138	$50,000.00
B555-1070	Rough in plumbing	45	09-Mar-12	14-May-12	129	$100,000.00
B555-1110	Weather related activities	1	02-Apr-12*	02-Apr-12	0	$0.00
B555-1300	Patch and paint walls offices/labs West wing	20	02-Apr-12*	27-Apr-12	0	$35,000.00
B555-1160	Demo fan loft	15	30-Apr-12*	18-May-12	168	$10,000.00
B555-1340	Install Clock System	10	30-Apr-12	11-May-12	70	$65,000.00
B555-1190	Rough in Fire Alarm/Fire protection West wing 2nd	21	03-May-12	01-Jun-12	116	$140,000.00
B555-1380	Install Ceilings/Arch Finishes 3rd	15	14-May-12	04-Jun-12	70	$30,000.00
B555-1200	Misc. abatement basement	3	21-May-12*	23-May-12	130	$80,000.00
B555-1210	Infill existing roof deck from removed mech. Equ	7	21-May-12	30-May-12	168	$10,000.00
B555-1220	AHU/MEP work in basement	7	24-May-12	04-Jun-12	130	$105,000.00
B555-1250	Misc Arch metal framing - Labs	20	31-May-12	27-Jun-12	38	$60,000.00
B555-1680	Abatement / Demo of Roof	15	31-May-12	20-Jun-12	48	$142,500.00
B555-1240	Install new roof over fan loft	20	21-Jun-12	20-Jul-12	152	$150,000.00
B555-1270	Roof Dunnage	20	21-Jun-12	20-Jul-12	48	$50,000.00
B555-1370	Install Ceilings/Arch Finishes 2nd	15	28-Jun-12	20-Jul-12	38	$130,000.00
B555-1230	Install Lightening Protection	20	28-Jun-12	27-Jul-12	78	$80,000.00
B555-1080	Abatement of fan loft	15	23-Jul-12	10-Aug-12	48	$62,500.00
B555-1260	Roof Exhaust Fan Installation	20	23-Jul-12	17-Aug-12	93	$75,000.00
B555-1120	Abatemen/Demo of exterior windows	30	27-Jul-12	06-Sep-12	86	$290,000.00
B555-1310	Install recesses fire ext. cabinets	2	02-Aug-12	03-Aug-12	93	$10,000.00
B555-1350	Install flooring West wing 3rd	20	02-Aug-12	29-Aug-12	10	$100,000.00
B555-1700	Install Elec. Equip. 3rd floor	10	02-Aug-12	15-Aug-12	65	$300,000.00
B555-1720	Install Mech. Equip. 3rd Floor	10	02-Aug-12	15-Aug-12	45	$475,000.00
B555-1180	Install new exterior windows	32	03-Aug-12	17-Sep-12	88	$370,000.00
B555-1690	Install Elec. Equip 2nd floor	10	13-Aug-12	24-Aug-12	58	$300,000.00
B555-1710	Install Mech. Equip. 2nd Floor	10	13-Aug-12	24-Aug-12	38	$575,000.00
B555-1320	Install flooring West wing 2nd	20	16-Aug-12	12-Sep-12	0	$100,000.00
B555-1330	Install flooring in stairs	5	16-Aug-12	22-Aug-12	93	$15,000.00
B555-1360	Paint railings, stringers in stairs West wing	20	23-Aug-12	19-Sep-12	93	$18,000.00
B555-1140	Exterior Concrete	10	24-Aug-12	06-Sep-12	95	$40,000.00
B555-1420	Install casework West wing 2nd	20	13-Sep-12	10-Oct-12	5	$492,000.00
B555-1430	Install fire safe system at all penetrations inc	20	13-Sep-12	10-Oct-12	65	$35,000.00
B555-1390	Install Storefronts and glazing at labs West win	22	13-Sep-12	12-Oct-12	68	$180,000.00
B555-1400	Install Doors West wing including fire doors	12	13-Sep-12	28-Sep-12	78	$25,000.00
B555-1440	Install Office Furniture 2nd	20	13-Sep-12	10-Oct-12	78	$225,000.00
B555-1410	Install Lab Equipment	12	13-Sep-12	28-Sep-12	13	$60,000.00
B555-1450	Install casework West wing 3rd	25	13-Sep-12	17-Oct-12	0	$493,560.86
B555-1460	Install Office Furniture 3rd	20	13-Sep-12	10-Oct-12	78	$275,000.00



U.W. MARX CONSTRUCTION COMPANY

Renovate Science Labs - Phase II - Baseline change

HSE CPM Scheduling Consultants

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Budgeted Total Cost
B555-1280	Site Restoration B555	7	18-Sep-12	26-Sep-12	88	$10,000.00
B555-1470	Final Connections mechanical ductwork/pipe/Equip 2nd	25	18-Oct-12	21-Nov-12	0	$500,000.00
B555-1480	Final Connections electrical/Equip West wing 2nd	15	18-Oct-12	07-Nov-12	20	$350,000.00
B555-1490	Final Connections Fire Alarm/Fire protection West wing 2nd	15	18-Oct-12	07-Nov-12	20	$45,000.00
B555-1500	Demo Elevators	20	18-Oct-12	14-Nov-12	33	$60,000.00
B555-1510	Final Connections mechanical ductwork/pipe/Equip 3rd	15	18-Oct-12	07-Nov-12	50	$400,000.00
B555-1520	Final Connections electrical/Equip West wing 3rd	15	18-Oct-12	07-Nov-12	20	$350,000.00
B555-1530	Final Connections Fire Alarm/Fire protection West wing 3rd	15	18-Oct-12	07-Nov-12	20	$45,000.00
B555-1540	Final connections for plumbing 2nd	15	18-Oct-12	07-Nov-12	20	$75,000.00
B555-1550	Final connections for plumbing 3rd	15	18-Oct-12	07-Nov-12	20	$75,000.00
B555-1560	Install new plumbing fixtures	2	08-Nov-12	09-Nov-12	51	$12,000.00
B555-1570	Fire Alarm Commissioning	5	08-Nov-12	14-Nov-12	45	$10,000.00
B555-1580	Install new bathroom partitions and accessories	5	12-Nov-12	16-Nov-12	51	$12,000.00
B555-1590	Install new elevators	35	15-Nov-12	07-Jan-13	33	$400,000.00
B555-1600	Install new tile, ceilings bathrooms	15	19-Nov-12	10-Dec-12	51	$20,000.00
B555-1610	Final clean	15	19-Nov-12	10-Dec-12	51	$9,000.00
B555-1620	Install Firestopping Systems	10	23-Nov-12	06-Dec-12	0	$25,000.00
B555-1630	Testing Adjusting and Balancing of Mech. Systems	15	07-Dec-12	27-Dec-12	0	$12,000.00
B555-1640	BMS Commissioning	15	28-Dec-12	22-Jan-13	0	$12,000.00
B555-1650	Start up/Commission/Test MEP equipment	23	23-Jan-13	01-Mar-13	0	$10,000.00
B555-1660	Substantial completion West Wing 555	0		01-Mar-13*	0	$0.00
B555-1670	Punch list	14	04-Mar-13	21-Mar-13	89	$0.00
General Conditions		477	01-Sep-11	29-Jul-13	2	$2,826,267.00
ACTSEP	Sept. 2011 General Conditions	22	01-Sep-11	30-Sep-11	2	$374,796.20
GEN-1010	Payment and Performance Bonds	1	01-Sep-11	01-Sep-11	2	$0.00
ACTOCT	Oct. 2011 General Conditions	21	03-Oct-11	31-Oct-11	2	$114,926.80
GEN1030	Nov. 2011 General Conditions	19	01-Nov-11	30-Nov-11	2	$111,264.00
GEN1040	Dec. 2011 General Conditions	20	01-Dec-11	30-Dec-11	2	$111,264.00
GEN1050	Jan. 2012 General Conditions	21	02-Jan-12	31-Jan-12	2	$111,264.00
GEN-1060	Feb. 2012 General Conditions	20	01-Feb-12	29-Feb-12	2	$111,264.00
GEN-1070	March 2012 General Conditions	22	01-Mar-12	30-Mar-12	2	$111,264.00
GEN-1080	April 2012 General Conditions	21	02-Apr-12	30-Apr-12	2	$111,264.00
GEN-1090	May 2012 General Conditions	22	01-May-12	31-May-12	2	$111,264.00
GEN-1100	June 2012 General Conditions	21	01-Jun-12	29-Jun-12	2	$111,264.00
GEN-1110	July 2012 General Conditions	20	02-Jul-12	31-Jul-12	2	$111,264.00
GEN-1120	August 2012 General Conditions	23	01-Aug-12	31-Aug-12	2	$111,264.00
GEN-1130	Sept. 2012 General Conditions	20	03-Sep-12	28-Sep-12	2	$111,264.00
GEN-1140	Oct. 2012 General Conditions	23	01-Oct-12	31-Oct-12	2	$111,264.00
GEN-1150	Nov. 2012 General Conditions	19	01-Nov-12	30-Nov-12	2	$111,264.00
GEN-1160	Dec. 2012 General Conditions	19	03-Dec-12	31-Dec-12	2	$111,264.00
GEN-1170	Jan. 2013 General Conditions	21	02-Jan-13	31-Jan-13	2	$111,264.00
GEN-1180	Feb. 2013 General Conditions	19	01-Feb-13	28-Feb-13	2	$111,264.00
GEN-1190	March 2013 General Conditions	21	01-Mar-13	29-Mar-13	2	$111,264.00
GEN-1200	April 2013 General Conditions	22	01-Apr-13	30-Apr-13	2	$111,264.00
GEN-1210	May 2013 General Conditions	22	01-May-13	31-May-13	2	$111,264.00
GEN-1220	June 2013 General Conditions	20	03-Jun-13	28-Jun-13	2	$111,264.00
GEN-1230	July 2013 General Conditions	19	01-Jul-13	29-Jul-13	2	$111,264.00