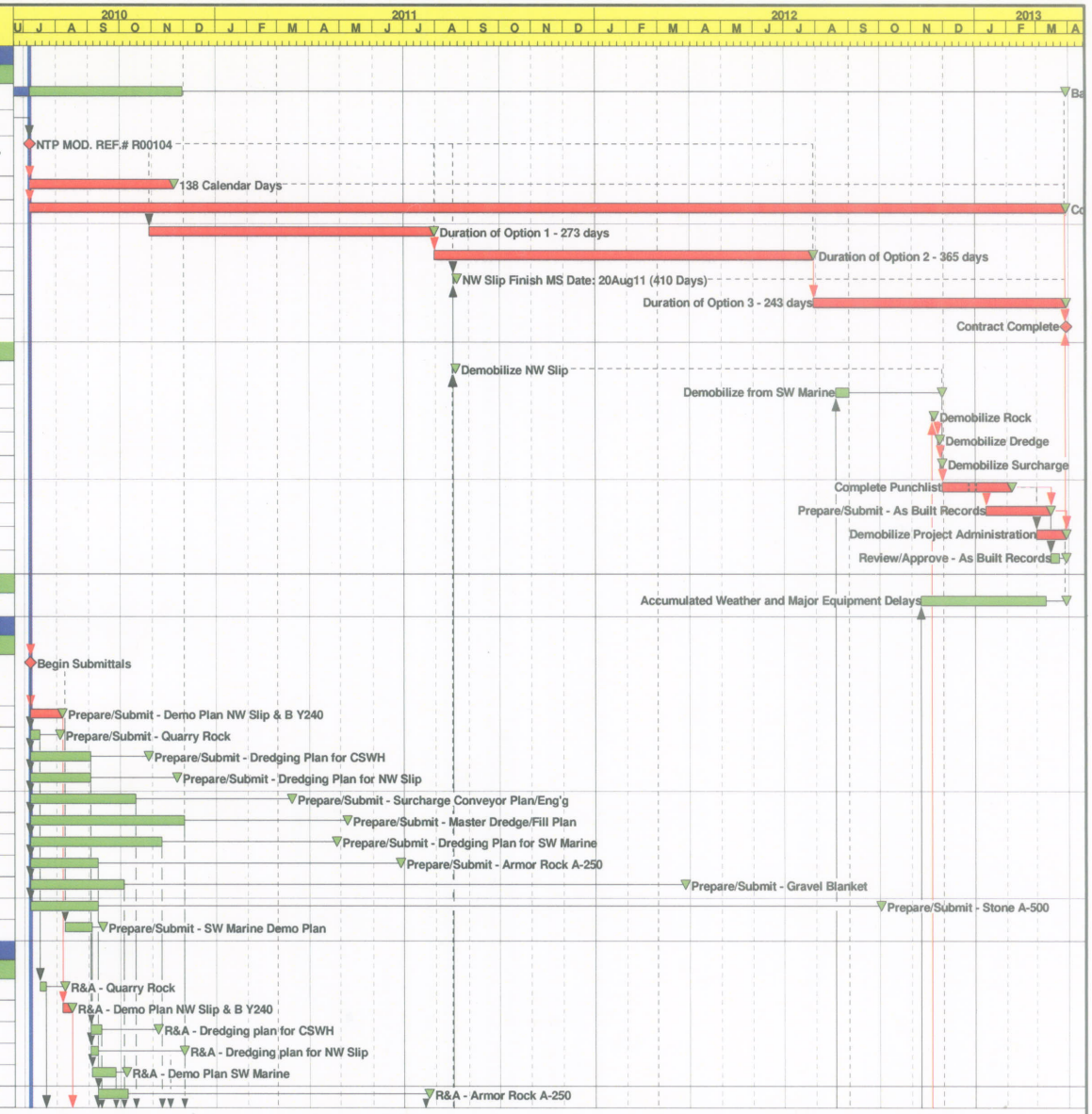
TRANSMITTAL 21

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Predecessors	Successors
Milestones / Contract Durations						
Milestones						
1010	Base Bid Duration (710 Cal Days)	511*	20DEC08A	29NOV10	1110*	9500
1110	Start of Contract Ext 20Dec08	0	20DEC08A			1000*, 1010*
1000	NTP MOD. REF.# R00104	0	07JUL10		1110*	199*, 1020, 1030, 1040, 1050*, 1060, 1070*
1050	138 Calendar Days	138	07JUL10	21NOV10	1000*	9500
1070	Construction/Contract Duration	996	07JUL10	28MAR13	1000*	9500*
1020	Duration of Option 1 - 273 days	273	30OCT10*	29JUL11	1000	1030*
1030	Duration of Option 2 - 365 days	365	30JUL11	28JUL12	1000, 1020*	1040*
1060	NW Slip Finish MS Date: 20Aug11 (410 Days)	1	18AUG11	18AUG11	1000, 9000*	9500
1040	Duration of Option 3 - 243 days	243	29JUL12	28MAR13	1000, 1030*	9500*
9500	Contract Complete	0		28MAR13	1010, 1040*, 1050,	
Demobilization						
9000	Demobilize NW Slip	2	16AUG11	17AUG11	4010, 4100*, 7055	1060*, 9030
9010	Demobilize from SW Marine	10	20AUG12	31AUG12	5260, 5270*, 6040, 8050	9030
9020	Demobilize Rock	2	20NOV12	21NOV12	5010, 5120, 6030*	9022*, 9030
9022	Demobilize Dredge	2	26NOV12	27NOV12	9020*	9024*
9024	Demobilize Surcharge	2	28NOV12	29NOV12	9022*	9030*
9030	Complete Punchlist	45	30NOV12	04FEB13	9000, 9010, 9020, 9024*	9040*, 9040*, 9060
9040	Prepare/Submit - As Built Records	45	11JAN13	14MAR13	9030*, 9030*	9050*, 9060*
9060	Demobilize Project Administration	20	01MAR13	28MAR13	9030, 9040*	9500*
9050	Review/Approve - As Built Records	5	15MAR13	21MAR13	9040*	9500
Administrative						
8500	Accumulated Weather and Major Equipment Delays	120	10NOV12	09MAR13	6110*	9500
Submittals						
Administrative						
199	Begin Submittals	0	07JUL10		1000*	200*, 230*, 260*, 290*, 320*, 350*, 380*, 410*, 460*, 480, 500*
460	Prepare/Submit - Demo Plan NW Slip & B Y240	23	07JUL10	06AUG10	199*	470*, 480*
320	Prepare/Submit - Quarry Rock	9	07JUL10	15JUL10	199*	330*
230	Prepare/Submit - Dredging Plan for CSWH	58	07JUL10	02SEP10	199*	240*
260	Prepare/Submit - Dredging Plan for NW Slip	58	07JUL10	02SEP10	199*	270*
500	Prepare/Submit - Surcharge Conveyor Plan/Eng'g	101	07JUL10	15OCT10	199*	510*
200	Prepare/Submit - Master Dredge/Fill Plan	147	07JUL10	30NOV10	199*	210*
290	Prepare/Submit - Dredging Plan for SW Marine	126	07JUL10	09NOV10	199*	300*
350	Prepare/Submit - Armor Rock A-250	65	07JUL10	09SEP10	199*	360*
410	Prepare/Submit - Gravel Blanket	90	07JUL10	04OCT10	199*	420*
380	Prepare/Submit - Stone A-500	65	07JUL10	09SEP10	199*	390*
480	Prepare/Submit - SW Marine Demo Plan	20	09AUG10	03SEP10	199, 460*	490*
Review / Approvals						
Administrative						
330	R&A - Quarry Rock	5	16JUL10	20JUL10	320*	3040*
470	R&A - Demo Plan NW Slip & B Y240	9	07AUG10	15AUG10	460*	3225*, 3507*
240	R&A - Dredging plan for CSWH	10	03SEP10	12SEP10	230*	3030*
270	R&A - Dredging plan for NW Slip	7	03SEP10	09SEP10	260*	3560
490	R&A - Demo Plan SW Marine	23	04SEP10	26SEP10	480*	3240*, 3265*
360	R&A - Armor Rock A-250	28	10SEP10	07OCT10	350*	4090



Start Date	07JUL10	Early Bar
Finish Date	28MAR13	Float Bar
Data Date	07JUL10	Progress Bar
Run Date	05OCT10 10:29	Critical Activity

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Sheet 1 of 4

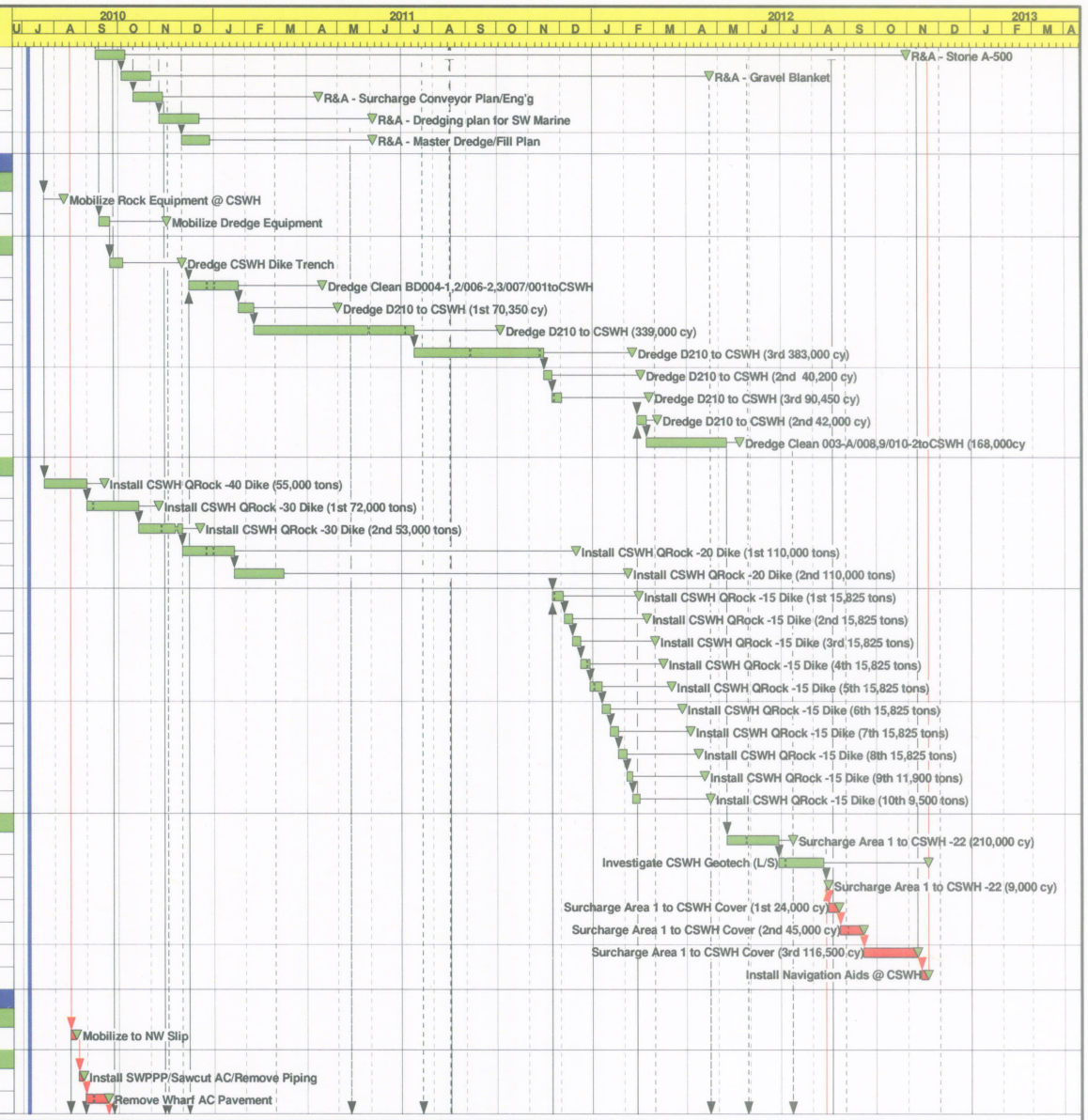
MANSON CONSTRUCTION CO.

POLA CHANNEL DEEP DACW09-02-C-0008

Area of Work/Cata BASELINE SCHEDULE

Date	Revision	Checked	Approved

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Predecessors	Successors
390	R&A - Stone A-500	28	10SEP10	07OCT10	380*	6040
420	R&A - Gravel Blanket	28	05OCT10	01NOV10	410*	6050
510	R&A - Surcharge Conveyor Plan/Eng'g	28	16OCT10	12NOV10	500*	4260*
300	R&A - Dredging plan for SW Marine	38	10NOV10	17DEC10	290*	4210
210	R&A - Master Dredge/Fill Plan	28	01DEC10	28DEC10	200*	4210
CSWH - Cabrillo Shallow Water Habitat						
Mobilization						
3040	Mobilize Rock Equipment @ CSWH	1	21JUL10	21JUL10	330*	3500*
3030	Mobilize Dredge Equipment	10	13SEP10	22SEP10	240*	3550*
Dredge						
3550	Dredge CSWH Dike Trench	11	23SEP10	05OCT10	3030*	3560, 3570
3570	Dredge Clean BD004-1,2/006-2,3/007/001toCSWH	39	08DEC10	24JAN11	3550, 3560*	4180*
4180	Dredge D210 to CSWH (1st 70,350 cy)	13	25JAN11	08FEB11	3570*	4190*
4190	Dredge D210 to CSWH (339,000 cy)	130	09FEB11	12JUL11	4180*	4200*
4200	Dredge D210 to CSWH (3rd 383,000 cy)	105	13JUL11	14NOV11	4190*	4182*
4182	Dredge D210 to CSWH (2nd 40,200 cy)	7	15NOV11	22NOV11	4200*	4184*
4184	Dredge D210 to CSWH (3rd 90,450 cy)	6	23NOV11	01DEC11	4182*	5160
5160	Dredge D210 to CSWH (2nd 42,000 cy)	8	13FEB12	21FEB12	4184, 6070*	5170*
5170	Dredge Clean 003-A/008,9/010-2toCSWH (168,000cy	67	22FEB12	09MAY12	5160*	5210*, 5260
Rock						
3500	Install CSWH QRock -40 Dike (55,000 tons)	28	22JUL10	30AUG10	3040*	3510*
3510	Install CSWH QRock -30 Dike (1st 72,000 tons)	36	31AUG10	20OCT10	3500*	3520*
3520	Install CSWH QRock -30 Dike (2nd 53,000 tons)	26	21OCT10	30NOV10	3510*	3530*, 4020
3530	Install CSWH QRock -20 Dike (1st 110,000 tons)	34	01DEC10	19JAN11	3520*	3540*
3540	Install CSWH QRock -20 Dike (2nd 110,000 tons)	34	20JAN11	08MAR11	3530*	5030
5030	Install CSWH QRock -15 Dike (1st 15,825 tons)	6	23NOV11	02DEC11	3540, 5150*	5040*
5040	Install CSWH QRock -15 Dike (2nd 15,825 tons)	6	05DEC11	12DEC11	5030*	5050*
5050	Install CSWH QRock -15 Dike (3rd 15,825 tons)	6	13DEC11	20DEC11	5040*	5060*
5060	Install CSWH QRock -15 Dike (4th 15,825 tons)	6	21DEC11	29DEC11	5050*	5070*
5070	Install CSWH QRock -15 Dike (5th 15,825 tons)	6	30DEC11	09JAN12	5060*	5080*
5080	Install CSWH QRock -15 Dike (6th 15,825 tons)	6	10JAN12	17JAN12	5070*	5090*
5090	Install CSWH QRock -15 Dike (7th 15,825 tons)	6	18JAN12	25JAN12	5080*	5100*
5100	Install CSWH QRock -15 Dike (8th 15,825 tons)	6	26JAN12	02FEB12	5090*	5110*
5110	Install CSWH QRock -15 Dike (9th 11,900 tons)	4	03FEB12	08FEB12	5100*	5120*
5120	Install CSWH QRock -15 Dike (10th 9,500 tons)	4	09FEB12	14FEB12	5110*	6050, 9020
Surcharge						
5210	Surcharge Area 1 to CSWH -22 (210,000 cy)	35	10MAY12	28JUN12	5170*	5010*, 5260, 6080
5010	Investigate CSWH Geotech (L/S)	30	29JUN12	10AUG12	5210*	9020
6080	Surcharge Area 1 to CSWH -22 (9,000 cy)	2	13AUG12	14AUG12	5210, 5260*	6090*
6090	Surcharge Area 1 to CSWH Cover (1st 24,000 cy)	8	15AUG12	24AUG12	6080*	6100*
6100	Surcharge Area 1 to CSWH Cover (2nd 45,000 cy)	15	27AUG12	17SEP12	6090*	6110*
6110	Surcharge Area 1 to CSWH Cover (3rd 116,500 cy)	39	18SEP12	09NOV12	6100*	6030*, 8500*
6030	Install Navigation Aids @ CSWH	5	13NOV12	19NOV12	6110*	9020*
NW Slip - Berth 134-135						
Mobilization						
3507	Mobilize to NW Slip	5	16AUG10	20AUG10	470*	3415*
Demolition						
3415	Install SWPPP/Sawcut AC/Remove Piping	5	23AUG10	27AUG10	3507*	3410*, 3450*
3450	Remove Wharf AC Pavement	15	30AUG10	20SEP10	3415*	3460*



Start Date 07JUL10
Finish Date 28MAR13
Data Date 07JUL10
Run Date 05OCT10 10:29

Early Bar
Float Bar
Progress Bar
Critical Activity

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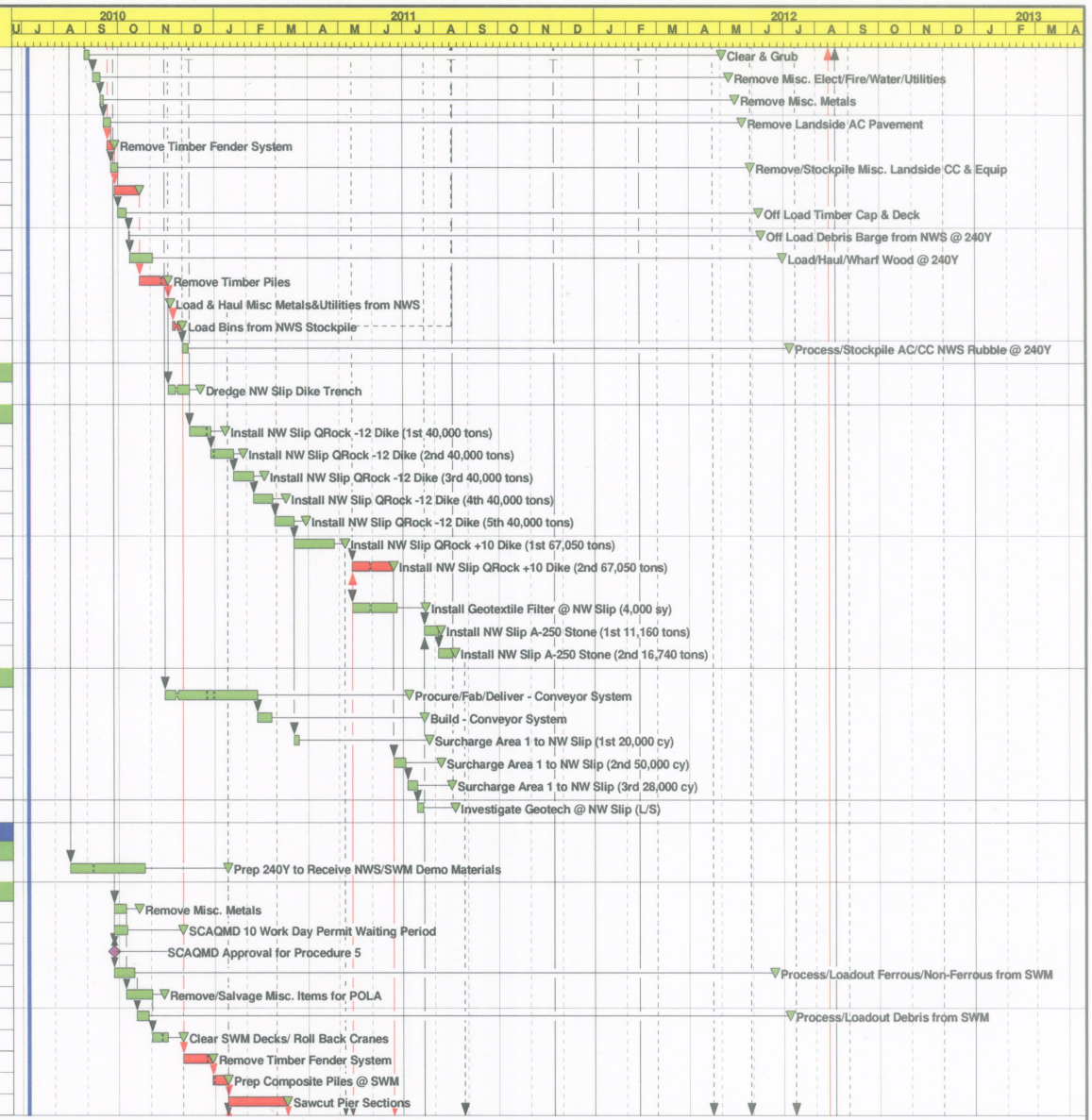
MANSON CONSTRUCTION CO.

POLA CHANNEL DEEP DACW09-02-C-0008

Area of Work/Cata BASELINE SCHEDULE

Date	Revision	Checked	Approved

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Predecessors	Successors
3410	Clear & Grub	5	30AUG10	03SEP10	3415*	3420*
3420	Remove Misc. Elect/Fire/Water/Utilities	5	07SEP10	13SEP10	3410*	3430*
3430	Remove Misc. Metals	3	14SEP10	16SEP10	3420*	3440*
3440	Remove Landside AC Pavement	5	17SEP10	23SEP10	3430*	3445*
3460	Remove Timber Fender System	5	21SEP10	27SEP10	3450*	3470*
3445	Remove/Stockpile Misc. Landside CC & Equip	5	24SEP10	30SEP10	3440*	7057*
3470		18	28SEP10	21OCT10	3460*	3480*
7057	Off Load Timber Cap & Deck	6	01OCT10	08OCT10	3445*	7020*
7020	Off Load Debris Barge from NWS @ 240Y	2	11OCT10	12OCT10	7057*	7030*
7030	Load/Haul/Wharf Wood @ 240Y	15	13OCT10	02NOV10	7020*	7040
3480	Remove Timber Piles	18	22OCT10	17NOV10	3470*	3560*, 7050*
7050	Load & Haul Misc Metals&Utilities from NWS	2	18NOV10	19NOV10	3480*	7055*, 8040
7055	Load Bins from NWS Stockpile	5	22NOV10	30NOV10	7050*	3270*, 7040*, 9000
7040	Process/Stockpile AC/CC NWS Rubble @ 240Y	4	01DEC10	06DEC10	7030, 7055*	8040
Dredge						
3560	Dredge NW Slip Dike Trench	15	18NOV10	07DEC10	270, 3480*, 3550	3570*, 4020*
Rock						
4020	Install NW Slip QRock -12 Dike (1st 40,000 tons)	14	08DEC10	28DEC10	3520, 3560*	4030*
4030	Install NW Slip QRock -12 Dike (2nd 40,000 tons)	14	29DEC10	18JAN11	4020*	4040*
4040	Install NW Slip QRock -12 Dike (3rd 40,000 tons)	14	19JAN11	07FEB11	4030*	4050*
4050	Install NW Slip QRock -12 Dike (4th 40,000 tons)	14	08FEB11	25FEB11	4040*	4060*
4060	Install NW Slip QRock -12 Dike (5th 40,000 tons)	14	28FEB11	17MAR11	4050*	4070*, 4220*
4070	Install NW Slip QRock +10 Dike (1st 67,050 tons)	27	18MAR11	25APR11	4060*	4080, 4160
4080	Install NW Slip QRock +10 Dike (2nd 67,050 tons)	27	13MAY11	21JUN11	4070, 4160*	4005*, 4090, 4170*, 4230*
4005	Install Geotextile Filter @ NW Slip (4,000 sy)	30	13MAY11	24JUN11	4080*	4090
4090	Install NW Slip A-250 Stone (1st 11,160 tons)	10	21JUL11	03AUG11	360, 4005, 4080, 4170*	4100*
4100	Install NW Slip A-250 Stone (2nd 16,740 tons)	10	04AUG11	17AUG11	4090*	5130, 9000*
Surcharge						
4260	Procure/Fab/Deliver - Conveyor System	60	15NOV10	10FEB11	510*	4270*
4270	Build - Conveyor System	10	11FEB11	24FEB11	4260*	4220
4220	Surcharge Area 1 to NW Slip (1st 20,000 cy)	3	18MAR11	22MAR11	4060*, 4270	4230
4230	Surcharge Area 1 to NW Slip (2nd 50,000 cy)	10	22JUN11	02JUL11	4080*, 4220	4235*
4235	Surcharge Area 1 to NW Slip (3rd 28,000 cy)	9	05JUL11	14JUL11	4230*	4010*
4010	Investigate Geotech @ NW Slip (L/S)	3	15JUL11	19JUL11	4235*	9000
SW Marine - Berth 243-245						
Mobilization						
3225	Prep 240Y to Receive NWS/SWM Demo Materials	50	16AUG10	25OCT10	470*	3280
Demolition						
3240	Remove Misc. Metals	9	27SEP10	07OCT10	490*	3250*, 8020*
3267	SCAQMD 10 Work Day Permit Waiting Period	10	27SEP10	08OCT10	3265*	3270
3265	SCAQMD Approval for Procedure 5	0	27SEP10		490*	3267*
8020	Process/Loadout Ferrous/Non-Ferrous from SWM	15	27SEP10	15OCT10	3240*	8010*
3250	Remove/Salvage Misc. Items for POLA	17	08OCT10	01NOV10	3240*	3255*
8010	Process/Loadout Debris from SWM	10	18OCT10	29OCT10	8020*	8040
3255	Clear SWM Decks/ Roll Back Cranes	10	02NOV10	16NOV10	3250*	3270
3270	Remove Timber Fender System	20	01DEC10	29DEC10	3255, 3267, 7055*	3209*
3209	Prep Composite Piles @ SWM	10	30DEC10	13JAN11	3270*	3260*, 3280*
3260	Sawcut Pier Sections	40	14JAN11	10MAR11	3209*, 3280*	3290*



Start Date	07JUL10
Finish Date	28MAR13
Data Date	07JUL10
Run Date	05OCT10 10:29

Early Bar
Float Bar
Progress Bar
Critical Activity

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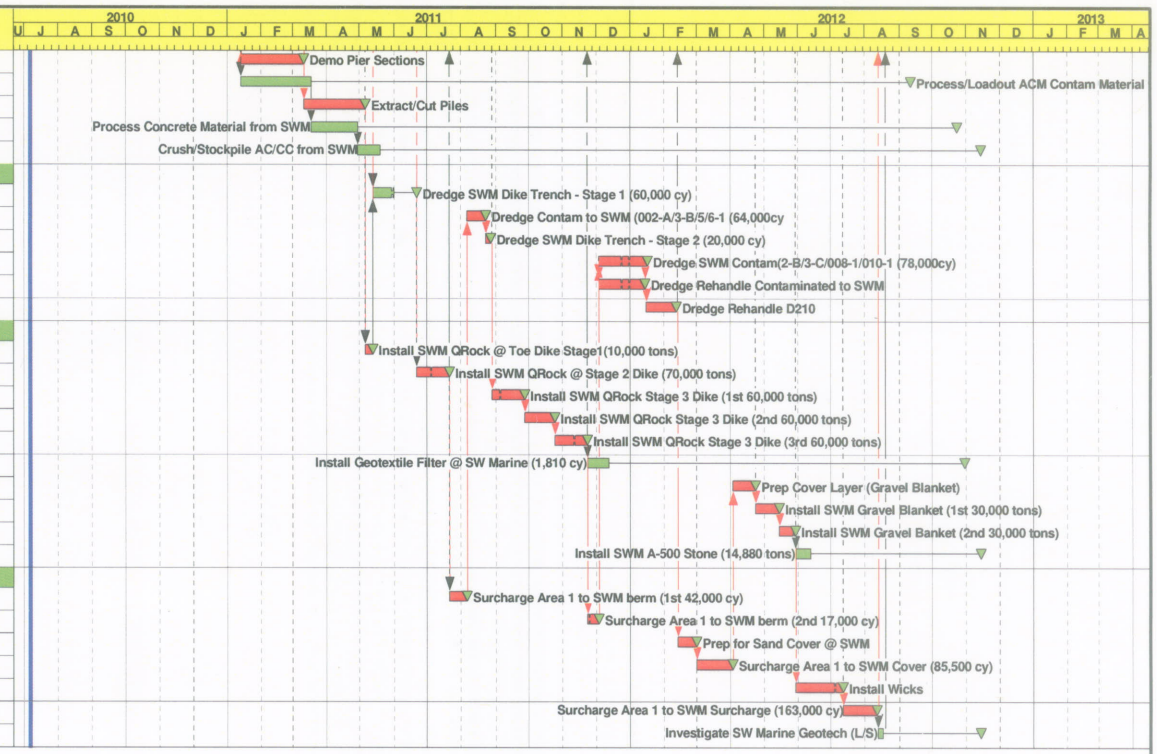
MANSON CONSTRUCTION CO.

POLA CHANNEL DEEP DACW09-02-C-0008

Area of Work/Cata BASELINE SCHEDULE

Date	Revision	Checked	Approved

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Predecessors	Successors
3280	Demo Pier Sections	40	14JAN11	10MAR11	3209*, 3225	3260*, 3290*, 8040*
8040	Process/Loadout ACM Contam Material from SWM	45	14JAN11	17MAR11	3280*, 7040, 7050, 8010	8030*
3290	Extract/Cut Piles	40	11MAR11	05MAY11	3260*, 3280*	4160*
8030	Process Concrete Material from SWM	30	18MAR11	28APR11	8040*	8050*
8050	Crush/Stockpile AC/CC from SWM	15	29APR11	19MAY11	8030*	9010
Dredge						
4210	Dredge SWM Dike Trench - Stage 1 (60,000 cy)	15	13MAY11	31MAY11	210, 300, 4160*	4170, 5220
5180	Dredge Contam to SWM (002-A/3-B/5/6-1 (64,000cy	14	06AUG11	22AUG11	5220*	4215*
4215	Dredge SWM Dike Trench - Stage 2 (20,000 cy)	5	23AUG11	27AUG11	5180*	5130*, 5230
5190	Dredge SWM Contam(2-B/3-C/008-1/010-1 (78,000cy)	36	03DEC11	16JAN12	5230*	5200*, 5200*
5200	Dredge Rehandle Contaminated to SWM	35	03DEC11	14JAN12	5190*, 5190*	6070*
6070	Dredge Rehandle D210	24	16JAN12	11FEB12	5200*	5160*, 5240*
Rock						
4160	Install SWM QRock @ Toe Dike Stage1(10,000 tons)	5	06MAY11	12MAY11	3290*, 4070	4080*, 4170, 4210*
4170	Install SWM QRock @ Stage 2 Dike (70,000 tons)	20	22JUN11	20JUL11	4080*, 4160, 4210	4090*, 5130, 5220*
5130	Install SWM QRock Stage 3 Dike (1st 60,000 tons)	20	29AUG11	26SEP11	4100, 4170, 4215*	5140*
5140	Install SWM QRock Stage 3 Dike (2nd 60,000 tons)	20	27SEP11	24OCT11	5130*	5150*
5150	Install SWM QRock Stage 3 Dike (3rd 60,000 tons)	20	25OCT11	22NOV11	5140*	4150*, 5030*, 5230*
4150	Install Geotextile Filter @ SW Marine (1,810 cy)	20	23NOV11	12DEC11	5150*	6040
6045	Prep Cover Layer (Gravel Blanket)	15	03APR12	23APR12	5250*	6050*
6050	Install SWM Gravel Blanket (1st 30,000 tons)	15	24APR12	14MAY12	420, 5120, 6045*	6060*
6060	Install SWM Gravel Banket (2nd 30,000 tons)	10	15MAY12	29MAY12	6050*	6020*, 6040*
6040	Install SWM A-500 Stone (14,880 tons)	10	30MAY12	12JUN12	390, 4150, 6060*	9010
Surcharge						
5220	Surcharge Area 1 to SWM berm (1st 42,000 cy)	14	21JUL11	05AUG11	4170*, 4210	5180*
5230	Surcharge Area 1 to SWM berm (2nd 17,000 cy)	7	23NOV11	02DEC11	4215, 5150*	5190*
5240	Prep for Sand Cover @ SWM	15	13FEB12	29FEB12	6070*	5250*
5250	Surcharge Area 1 to SWM Cover (85,500 cy)	28	01MAR12	02APR12	5240*	6045*
6020	Install Wicks	30	30MAY12	11JUL12	6060*	5260*
5260	Surcharge Area 1 to SWM Surcharge (163,000 cy)	27	12JUL12	11AUG12	5170, 5210, 6020*	5270*, 6080*, 9010
5270	Investigate SW Marine Geotech (L/S)	5	13AUG12	17AUG12	5260*	9010*



Start Date	07JUL10
Finish Date	28MAR13
Data Date	07JUL10
Run Date	05OCT10 10:29

Early Bar
Float Bar
Progress Bar
Critical Activity

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MANSON CONSTRUCTION CO.

POLA CHANNEL DEEP DACW09-02-C-0008

Area of Work/Cata BASELINE SCHEDULE

Date	Revision	Checked	Approved