

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	'11					Feb 20	
							T	W	T	F	S	S	M
1		MSD II	63 days	Wed 2/16/11	Fri 5/13/11								
2		Detailed Design Review Action Items	25 days	Wed 2/16/11	Tue 3/22/11								
3		Finalize BOM for all Systems	10 days	Wed 2/16/11	Tue 3/1/11								
4		Place orders for identified components	3 days	Tue 2/22/11	Thu 2/24/11								
5		Create Detailed Design Drawings including tolerances for components needing to be Manufactured.	17 days	Wed 2/16/11	Thu 3/10/11								
6		Finalize Test Plan	14 days	Wed 2/16/11	Mon 3/7/11								
7		Review Tests and implement updates	13 days	Thu 2/17/11	Mon 3/7/11								
8		Fabrication of Appropriate Pieces	20 days	Mon 3/7/11	Fri 4/1/11								
9		Obtain Critical Raw Materials	7 days	Fri 3/11/11	Mon 3/21/11								
10		Construct Base From Extruded Aluminum	4 days	Wed 3/16/11	Mon 3/21/11								
11		Fabricated Side Supports	5 days	Wed 3/16/11	Tue 3/22/11								
12		Blade Mount Fabrication	5 days	Mon 3/14/11	Fri 3/18/11								
13		Straw Base Plate Fabrication (Automated)	5 days	Mon 3/14/11	Fri 3/18/11								
14		Length Adjustment Components	3 days	Mon 3/14/11	Wed 3/16/11								
15		Plexiglas Safety Guard	3 days	Mon 3/21/11	Wed 3/23/11								
16		Plastic Straw Guide	1 day	Mon 3/21/11	Mon 3/21/11								
17		Cartridge Construction	5 days	Mon 3/28/11	Fri 4/1/11								
18		Vacuum Attachment Rapid Prototyped	4 days	Mon 3/28/11	Thu 3/31/11								
19		System Assembly	16 days	Mon 3/7/11	Mon 3/28/11								
20		Pneumatic System Including 2 Handed Controller	5 days	Mon 3/7/11	Fri 3/11/11								
21		Microcontroller Programming	7 days	Mon 3/7/11	Tue 3/15/11								
22		Blade Mounting Plate and Carriage Assembly	2 days	Mon 3/21/11	Tue 3/22/11	12							
23		Length Adjustment System Construction	2 days	Fri 3/18/11	Mon 3/21/11	14							
24		Safety System Construction	2 days	Thu 3/24/11	Fri 3/25/11	15							

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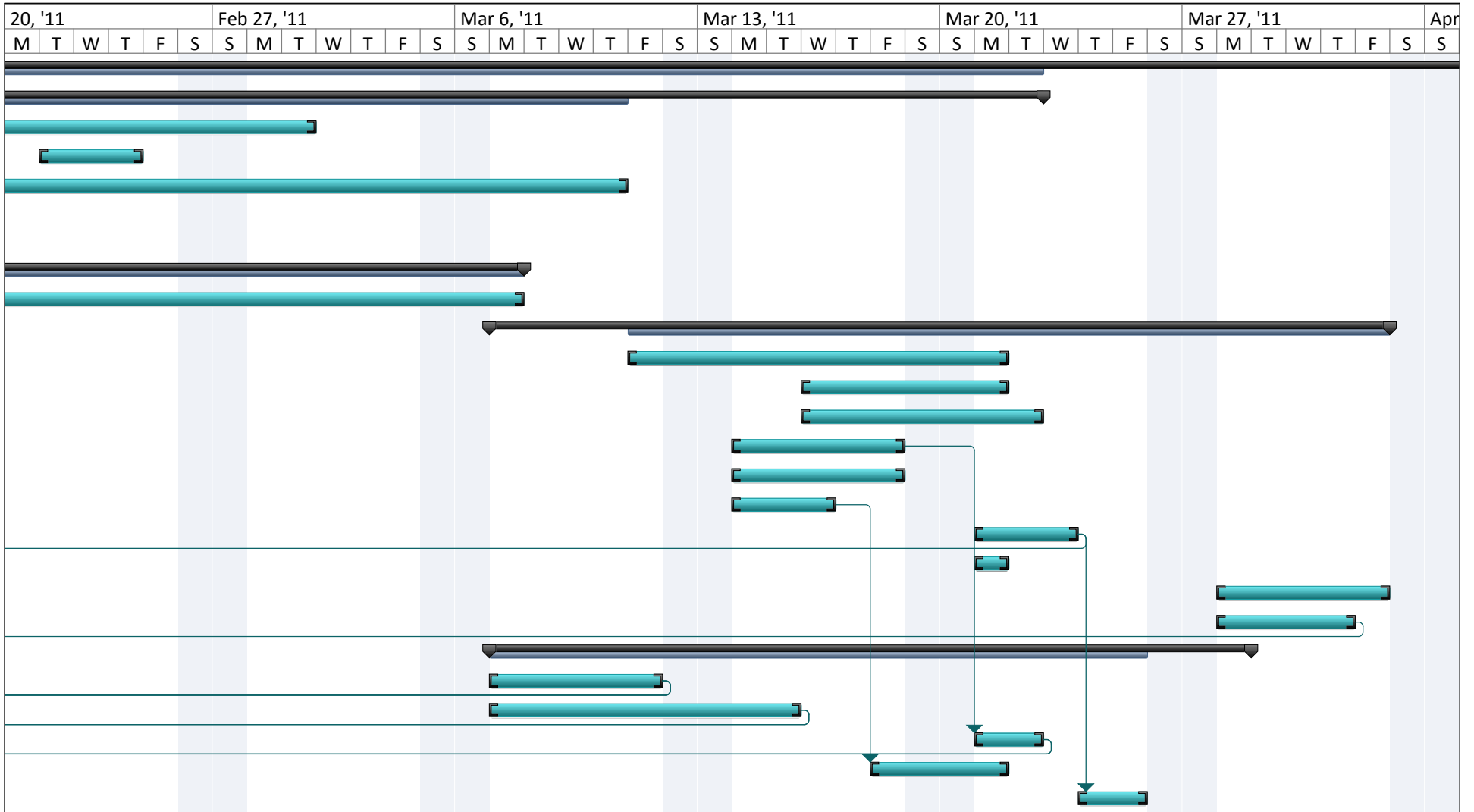
ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	'11					Feb 20	
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25		Construction of System Interfaces	16 days	Wed 3/16/11	Wed 4/6/11								
26		Blade and Mount Options	1 day	Wed 3/23/11	Wed 3/23/11	22							
27		Electrical Power Interface	2 days	Wed 3/16/11	Thu 3/17/11	21							
28		Pneumatic Interface	6 days	Mon 3/14/11	Mon 3/21/11	20							
29		Vacuum / Material Removal Interface	4 days	Fri 4/1/11	Wed 4/6/11	18							
30		Safety Interface	1 day?	Thu 3/24/11	Thu 3/24/11	15,27,28							
31		Testing of Individual Systems	19 days	Mon 3/14/11	Thu 4/7/11								
32		Preliminary Pneumatic Tests	2 days	Mon 3/14/11	Tue 3/15/11	20							
33		Blade Choice Test	3 days	Wed 3/23/11	Fri 3/25/11	22							
34		Safety Guard & Interlock Test	1 day	Fri 3/25/11	Fri 3/25/11	21,20,30							
35		Vacuum Material Removal Test	1 day?	Thu 4/7/11	Thu 4/7/11	29							
36		Testing of Completed Model	7 days	Thu 4/7/11	Fri 4/15/11	31							
37		Length and Capability Test	1 day	Thu 4/7/11	Thu 4/7/11								
38		Straw Cut Quality Test	1 day	Thu 4/7/11	Thu 4/7/11								
39		Overall Functionality Test	1 day	Mon 4/11/11	Mon 4/11/11								
40		Field Demo/Customer Demo & Hand off to Arc Wor	10 days	Mon 4/18/11	Fri 4/29/11								
41		Demonstrate full Functionality in Lab at RIT	3 days	Mon 4/18/11	Wed 4/20/11								
42		Complete all tests to a satisfactory result	1 day	Thu 4/21/11	Thu 4/21/11	41							
43		Setup Device at Arc Works	2 days	Fri 4/22/11	Sun 4/24/11	42							
44		Complete Testing at Arc Works and perform Observations throughout full day	1 day	Fri 4/22/11	Mon 4/25/11	43							
45		Communicate with Arc works Frequently during first Weeks of Implementation	5 days	Mon 4/25/11	Fri 4/29/11	44							
46		Project Completion Tasks	15 days	Mon 4/25/11	Fri 5/13/11								
47		Technical Paper	15 days	Mon 4/25/11	Fri 5/13/11								
48		Poster	10 days	Mon 4/25/11	Sun 5/8/11								

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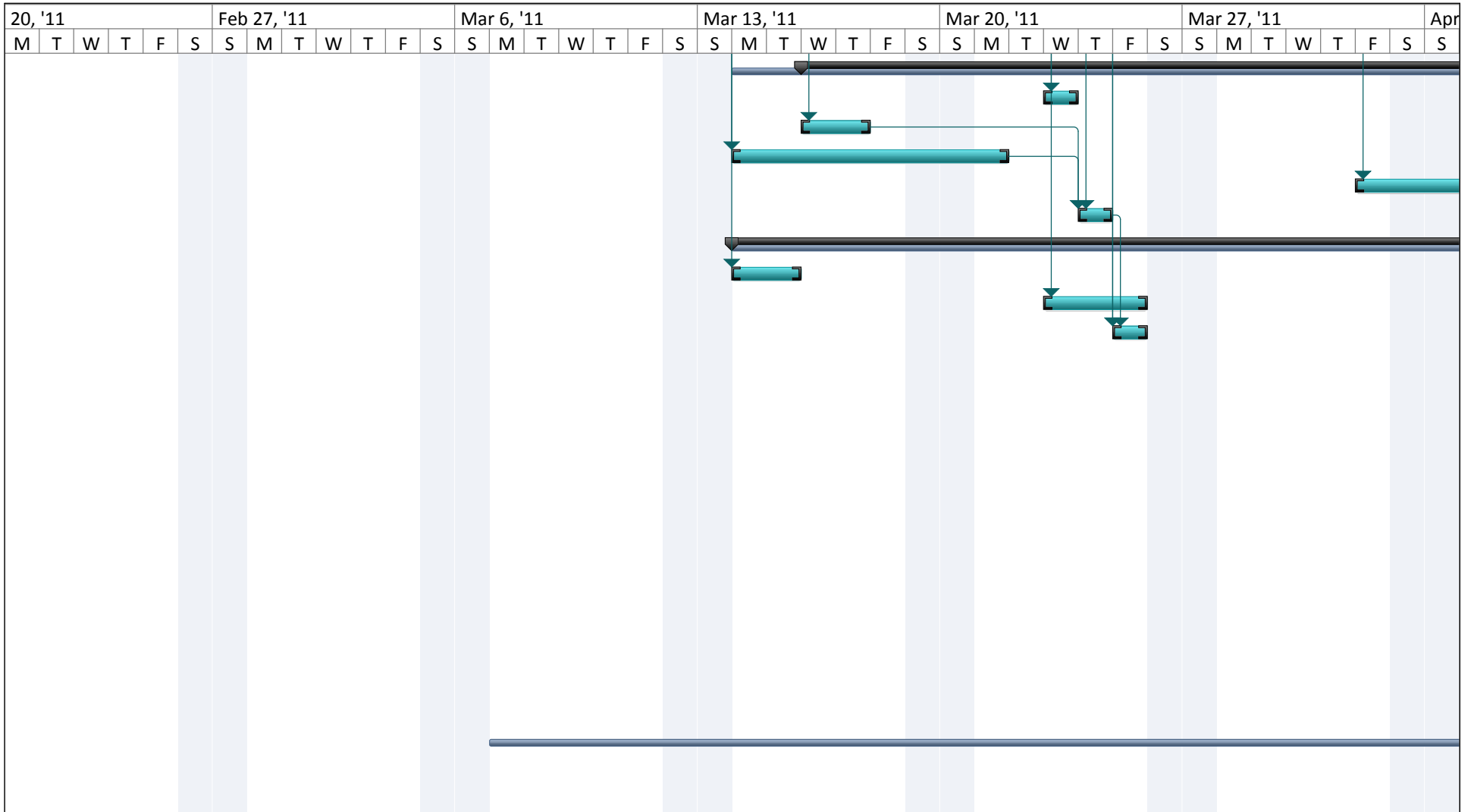
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49		Project Review	1 day	Fri 5/13/11	Fri 5/13/11								
50		Finalize Edge Page	8 days	Wed 5/4/11	Fri 5/13/11								
51													
52		Group Members not Available	50 days	Mon 3/7/11	Fri 5/13/11								
53		Tyler Away	8 days	Thu 3/24/11	Sun 4/3/11								
54		Matt Away	2 days	Sat 3/19/11	Mon 3/21/11								
55		Matt Away	2 days	Fri 3/25/11	Mon 3/28/11								
56		Ian Away	2 days	Sun 4/17/11	Mon 4/18/11								
57		Mark Away	2 days	Sat 4/23/11	Mon 4/25/11								

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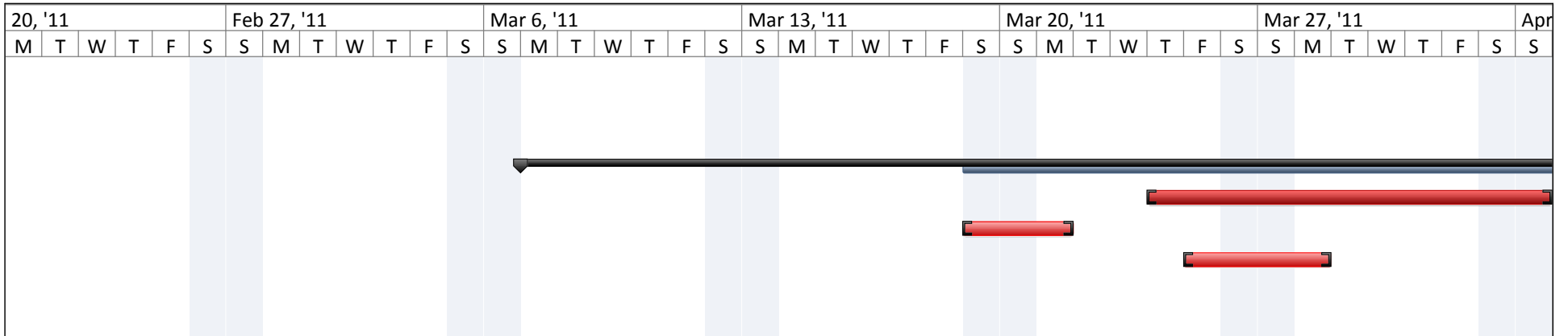
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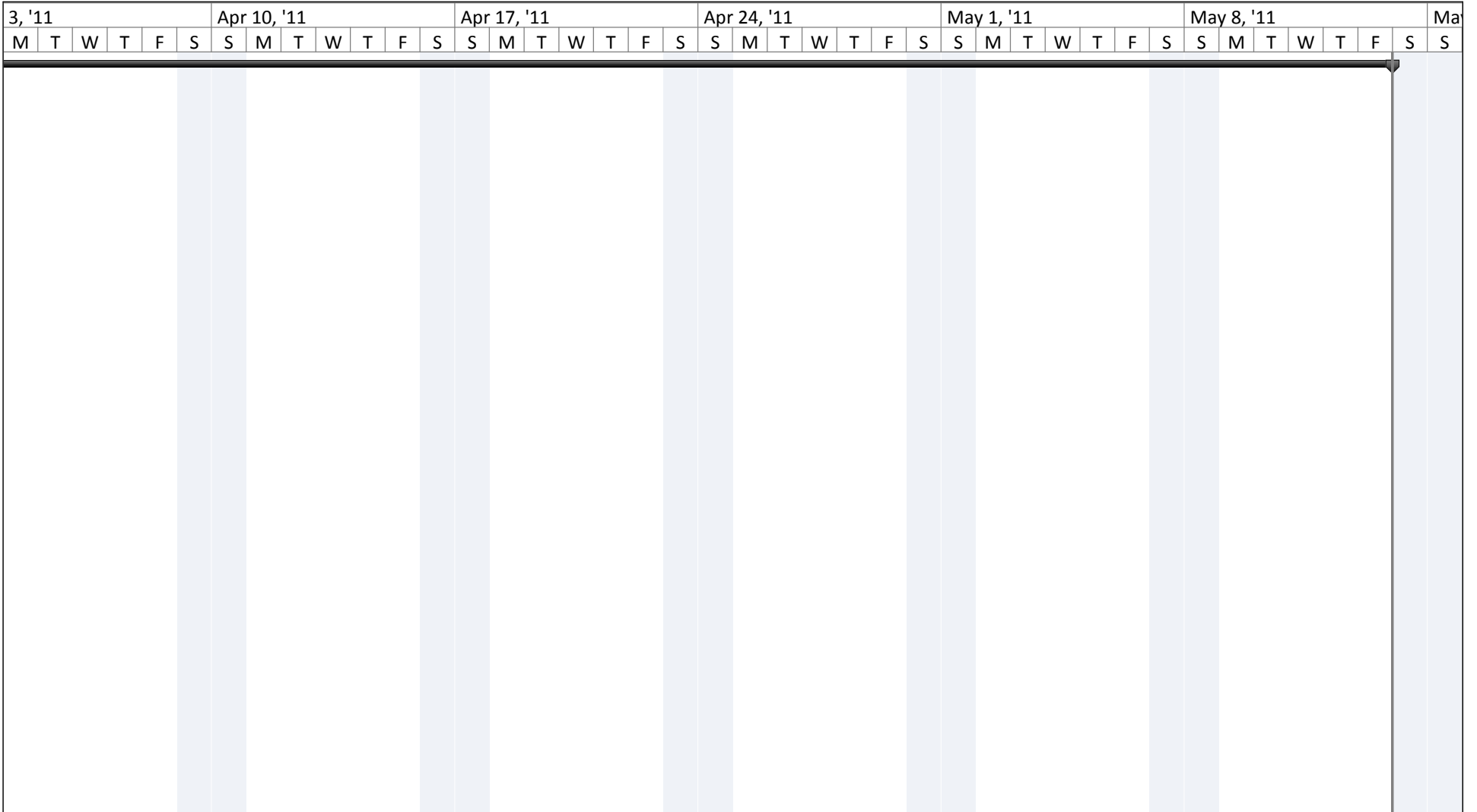


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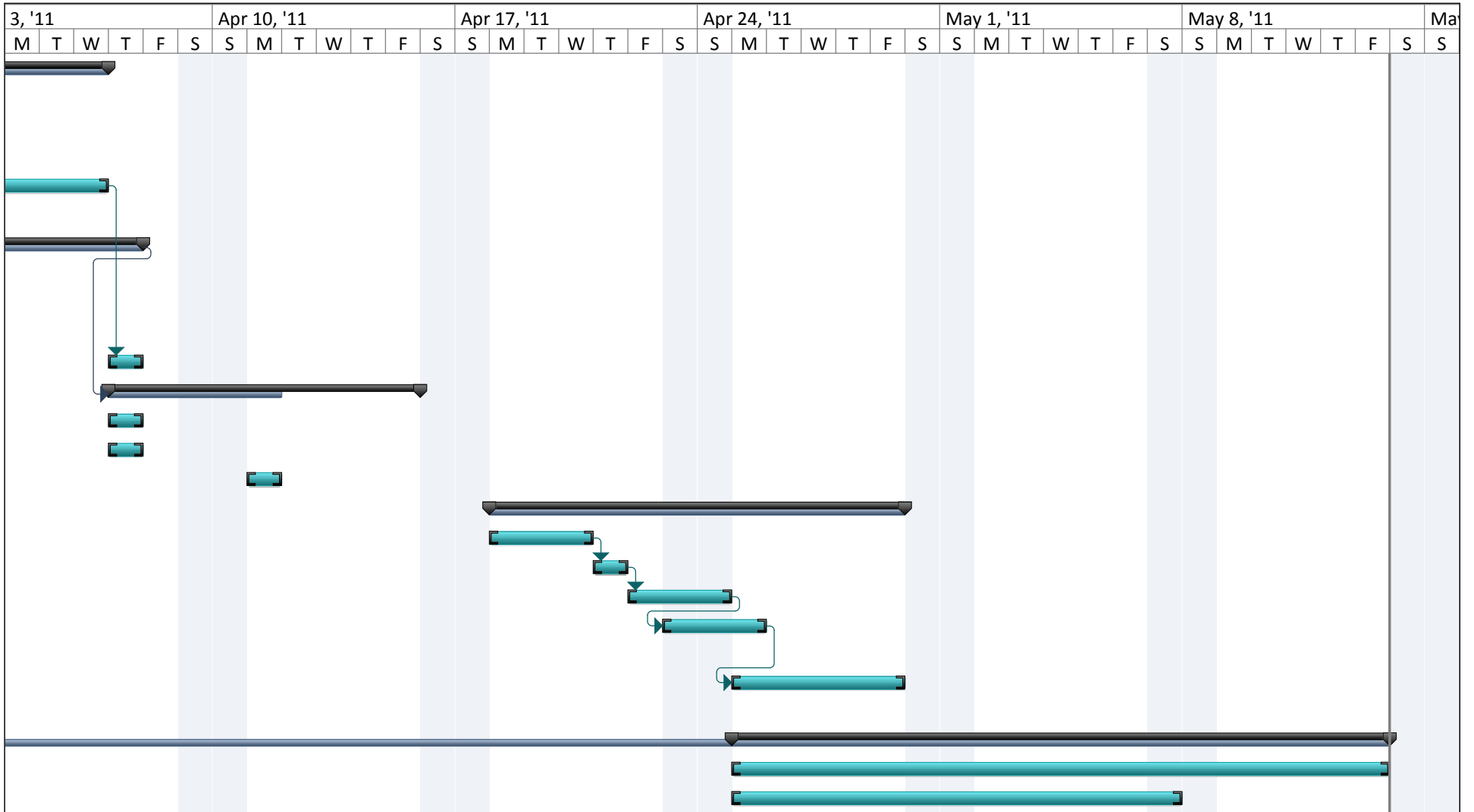


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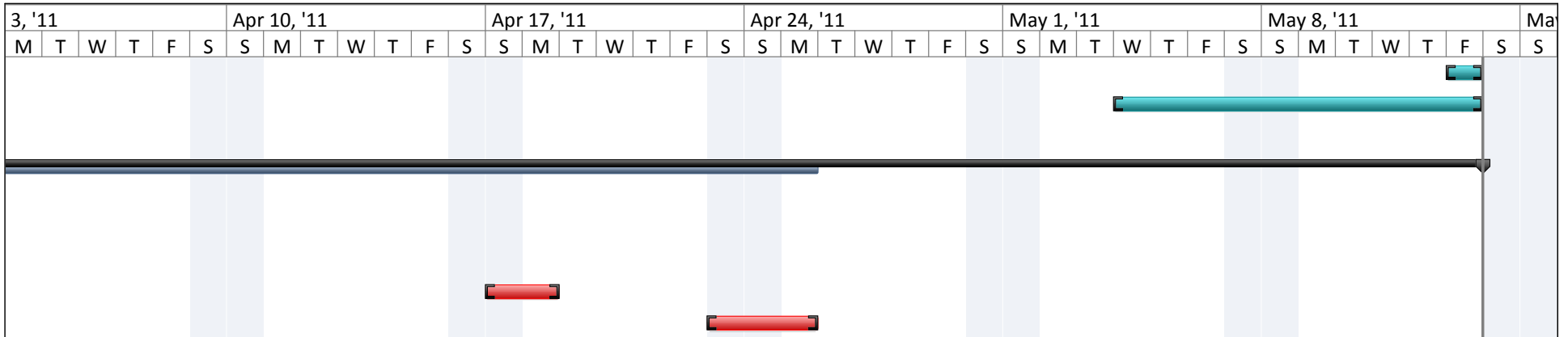
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