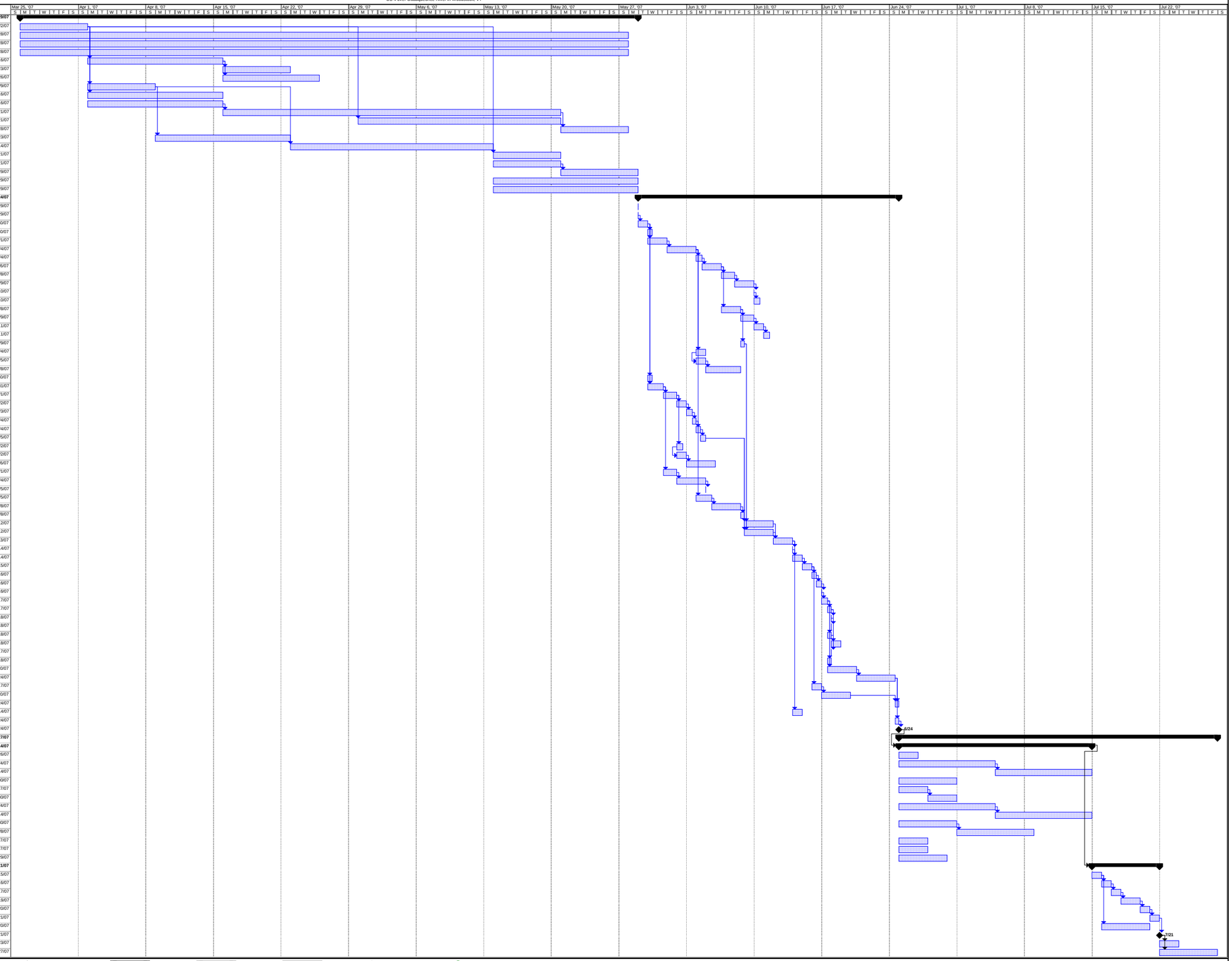
ID	Task Name	Duration	Start	Finish
1	**BEFORE ROAD CLOSURE**	**64 days**	**Mon 3/26/07**	**Tue 5/29/07**
2	Mobilize to site and set up field offices	7 days	Mon 3/26/07	Mon 4/2/07
3	Stockpile materials at local staging areas	63 days	Mon 3/26/07	Mon 5/28/07
4	Coordinate with utilities	63 days	Mon 3/26/07	Mon 5/28/07
5	Coordintate with VTrans to finalize placement of the variable message signs for regional detour	63 days	Mon 3/26/07	Mon 5/28/07
6	Install erosion prevention and sediment controls	14 days	Mon 4/2/07	Mon 4/16/07
7	Remove and store SE corner property owner's trees that are to be saved	7 days	Mon 4/16/07	Mon 4/23/07
8	Perform required clearing and grubbing	10 days	Mon 4/16/07	Thu 4/26/07
9	With Resident Engineer, jointly inspect piers and abutments to identify concrete removal areas	7 days	Mon 4/2/07	Mon 4/9/07
10	Install cofferdams for pier encasement	14 days	Mon 4/2/07	Mon 4/16/07
11	Install superstructure shoring system at each pier	14 days	Mon 4/2/07	Mon 4/16/07
12	Removed deteriorated concrete at piers and encase piers	35 days	Mon 4/16/07	Mon 5/21/07
13	Install debris containment system for superstructure removal operations	21 days	Mon 4/30/07	Mon 5/21/07
14	Remove cofferdams	7 days	Mon 5/21/07	Mon 5/28/07
15	Sawcut existing concrete and prepare for removal of abutment wingwalls	14 days	Mon 4/9/07	Mon 4/23/07
16	Repair deteriorated concrete at abutments	21 days	Mon 4/23/07	Mon 5/14/07
17	Remove existing bridge lights and posts	7 days	Mon 5/14/07	Mon 5/21/07
18	Remove existing granite curb on bridge approaches	7 days	Mon 5/14/07	Mon 5/21/07
19	Remove existing guardrail from both bridge approaches and place traffic control barrels	8 days	Mon 5/21/07	Tue 5/29/07
20	Erect and cover detour sign packages	15 days	Mon 5/14/07	Tue 5/29/07
21	Remove and/or cover existing traffic signs that will conflict with detour signage	15 days	Mon 5/14/07	Tue 5/29/07
22	**DURING ROAD CLOSURE**	**26.96 days**	**Tue 5/29/07**	**Sun 6/24/07**
23	Activate the variable message signs for the regional detour	1 hr	Tue 5/29/07	Tue 5/29/07
24	Uncover detour signs and close bridge to all traffic	8 hrs	Tue 5/29/07	Tue 5/29/07
25	Remove bridge and approach pavement	23 hrs	Tue 5/29/07	Wed 5/30/07
26	Set up crane on east approach	4 hrs	Wed 5/30/07	Wed 5/30/07
27	Remove existing bridge railing, sidewalk and concrete deck from Spans 2 and 3	48 hrs	Wed 5/30/07	Fri 6/1/07
28	Remove existing steel beam superstructure, bearings, and the abandoned water line from Spans 2 and 3	72 hrs	Fri 6/1/07	Mon 6/4/07
29	Place stone fill around Pier 2 using crane on east approach	8 hrs	Mon 6/4/07	Mon 6/4/07
30	Drive sheeting for NE retaining wall using crane on east approach	48 hrs	Mon 6/4/07	Wed 6/6/07
31	Install shear studs on face of NE retaining wall	40 hrs	Wed 6/6/07	Fri 6/8/07
32	Construct forms and place cast-in-place concrete cap on NE retaining wall	40 hrs	Fri 6/8/07	Sat 6/9/07
33	Backfill behind NE retaining wall	8 hrs	Sat 6/9/07	Sun 6/10/07
34	Place stone fill at the two locations along the NE retaining wall	8 hrs	Sun 6/10/07	Sun 6/10/07
35	Drive sheeting for SE retaining wall using crane on east approach	48 hrs	Wed 6/6/07	Fri 6/8/07
36	Install shear studs on face of SE retaining wall	32 hrs	Fri 6/8/07	Sat 6/9/07
37	Construct forms and place cast-in-place concrete cap on SE retaining wall	32 hrs	Sat 6/9/07	Mon 6/11/07
38	Backfill behind SE retaining wall	8 hrs	Mon 6/11/07	Mon 6/11/07
39	Move crane on east approach and excavate east approach and behind Abutment 2	16 hrs	Fri 6/8/07	Sat 6/9/07
40	Drill and grout dowel bars into existing Abutment 2 for new seat	16 hrs	Mon 6/4/07	Mon 6/4/07
41	Construct forms and place reinforcing steel for new Abutment 2 seat	24 hrs	Mon 6/4/07	Tue 6/5/07
42	Place and cure concrete for new Abutment 2 seat	80 hrs	Tue 6/5/07	Fri 6/8/07
43	Set up crane on west approach	4 hrs	Wed 5/30/07	Wed 5/30/07
44	Remove existing bridge railing, sidewalk and concrete deck from Span 1	32 hrs	Wed 5/30/07	Thu 5/31/07
45	Remove existing steel beam superstructure, bearings, and the abandoned water line from Span 1	32 hrs	Thu 5/31/07	Fri 6/1/07
46	Drive sheeting for NW retaining wall using crane on west approach	24 hrs	Fri 6/1/07	Sat 6/2/07
47	Install shear studs on face of NW retaining wall	16 hrs	Sat 6/2/07	Sun 6/3/07
48	Construct forms and place cast-in-place concrete cap on NW retaining wall	16 hrs	Sun 6/3/07	Mon 6/4/07
49	Backfill behind NW retaining wall	4 hrs	Mon 6/4/07	Mon 6/4/07
50	Move crane on west approach and excavate west approach and behind Abutment 1	16 hrs	Mon 6/4/07	Tue 6/5/07
51	Drill and grout dowel bars into existing Abutment 1 for new seat	16 hrs	Fri 6/1/07	Sat 6/2/07
52	Construct forms and place reinforcing steel for new Abutment 1 seat	24 hrs	Fri 6/1/07	Sat 6/2/07
53	Place and cure concrete for new Abutment 1 seat	80 hrs	Sat 6/2/07	Wed 6/6/07
54	Construct forms and place remaining reinforcing steel for new Pier 1 cap	32 hrs	Thu 5/31/07	Fri 6/1/07
55	Place and cure concrete for new Pier 1 cap	72 hrs	Fri 6/1/07	Mon 6/4/07
56	Apply water repellent to Pier 1	4 hrs	Mon 6/4/07	Tue 6/5/07
57	Construct forms and place remaining reinforcing steel for new Pier 2 cap	32 hrs	Mon 6/4/07	Tue 6/5/07
58	Place and cure concrete for new Pier 2 cap	72 hrs	Tue 6/5/07	Fri 6/8/07
59	Apply water repellent to Pier 2	4 hrs	Fri 6/8/07	Fri 6/8/07
60	Construct roadway drainage on approaches	72 hrs	Sat 6/9/07	Tue 6/12/07
61	Place electrical and Verizon conduit and manholes on approaches	72 hrs	Sat 6/9/07	Tue 6/12/07
62	Backfill and grade both approaches	40 hrs	Tue 6/12/07	Wed 6/13/07
63	Move cranes on both approaches closer to abutments for end spans box beam erection	4 hrs	Wed 6/13/07	Thu 6/14/07
64	Set box beam elastomeric bearings	16 hrs	Thu 6/14/07	Thu 6/14/07
65	Erect box beams in end spans	24 hrs	Thu 6/14/07	Fri 6/15/07
66	Post tension end span box beams (transversely)	16 hrs	Fri 6/15/07	Sat 6/16/07
67	Place backfill against box beams at one abutment and dunnage on adjacent end span	8 hrs	Sat 6/16/07	Sat 6/16/07
68	Move crane onto the dunnage on the end span	4 hrs	Sat 6/16/07	Sat 6/16/07
69	Erect box beams in Span 2 using crane on the end span (use a second crane on the other end span if necessary)	16 hrs	Sat 6/16/07	Sun 6/17/07
70	Move crane and dunnage off end span(s)	4 hrs	Sun 6/17/07	Sun 6/17/07
71	Place stone fill on slope at SW corner of bridge	8 hrs	Sun 6/17/07	Mon 6/18/07
72	Demobilize both cranes	4 hrs	Mon 6/18/07	Mon 6/18/07
73	Post tension Span 2 box beams (transversely)	16 hrs	Sun 6/17/07	Mon 6/18/07
74	Grout box beam shear keys	16 hrs	Mon 6/18/07	Mon 6/18/07
75	Excavate temporary backfill from behind the abutment(s) used for crane access	4 hrs	Sun 6/17/07	Sun 6/17/07
76	Drill and grout box beam anchor bolts at piers	16 hrs	Sun 6/17/07	Mon 6/18/07
77	Place reinforcing steel for box beam overlay, curtain walls at abutments and diaphragms at piers	72 hrs	Sun 6/17/07	Wed 6/20/07
78	Place and cure concrete for box beam overlay, curtain walls at abutments and diaphragms at piers	96 hrs	Wed 6/20/07	Sun 6/24/07
79	Construct forms and tie reinforcing steel for abutment wingwalls	32 hrs	Fri 6/15/07	Sun 6/17/07
80	Place and cure concrete for abutment wingwalls	72 hrs	Sun 6/17/07	Wed 6/20/07
81	Backfill abutments	8 hrs	Sun 6/24/07	Sun 6/24/07
82	Drive the posts for the bridge approach rail and guardrail on both approaches	24 hrs	Wed 6/13/07	Thu 6/14/07
83	Install portable concrete barrier as temporary bridge and approach rail	8 hrs	Sun 6/24/07	Sun 6/24/07
84	Open bridge to two-lane two-way vehicular traffic (vehicles wil be driving on the concrete overlay)	0 days	Sun 6/24/07	Sun 6/24/07
85	**AFTER ROAD CLOSURE**	**33 days**	**Sun 6/24/07**	**Fri 7/27/07**
86	**While behind concrete barrier and maintaining two-lane two-way vehicular traffic:**	**20 days**	**Sun 6/24/07**	**Sat 7/14/07**
87	Erect permanent traffic signs	2 days	Sun 6/24/07	Tue 6/26/07
88	Construct and cure brush curb on south side of bridge	10 days	Sun 6/24/07	Wed 7/4/07
89	Install bridge rail and lights on south side of bridge	10 days	Wed 7/4/07	Sat 7/14/07
90	Install granite curb on south sides of approaches	6 days	Sun 6/24/07	Sat 6/30/07
91	Install bridge approach rail on south sides of approaches	3 days	Sun 6/24/07	Wed 6/27/07
92	Install steel beam guardrail on south sides of approaches	3 days	Wed 6/27/07	Sat 6/30/07
93	Construct and cure sidewalk on north side of bridge	10 days	Sun 6/24/07	Wed 7/4/07
94	Install bridge rail and lights on north side of bridge	10 days	Wed 7/4/07	Sat 7/14/07
95	Install granite curb on north sides of approaches	6 days	Sun 6/24/07	Sat 6/30/07
96	Construct concrete sidewalk on north sides of approaches	8 days	Sat 6/30/07	Sun 7/8/07
97	Install bridge approach rail on north sides of approaches	3 days	Sun 6/24/07	Wed 6/27/07
98	Install steel beam guardrail on north sides of approaches	3 days	Sun 6/24/07	Wed 6/27/07
99	Apply water repellent to both abutments and piers	5 days	Sun 6/24/07	Fri 6/29/07
100	**While maintaining one-lane of two-way alternating vehicular traffic for a short duration:**	**7 days**	**Sat 7/14/07**	**Sat 7/21/07**
101	Remove concrete barrier from bridge and approaches	1 day	Sat 7/14/07	Sun 7/15/07
102	Place waterproofing membrane on bridge deck concrete overlay and pave bridge - first lane	1 day	Sun 7/15/07	Mon 7/16/07
103	Place waterproofing membrane on bridge deck concrete overlay and pave bridge - second lane	1 day	Mon 7/16/07	Tue 7/17/07
104	Pave approaches	2 days	Tue 7/17/07	Thu 7/19/07
105	Construct asphaltic plug-type expansion joints	1 day	Thu 7/19/07	Fri 7/20/07
106	Apply pavement markings	1 day	Fri 7/20/07	Sat 7/21/07
107	Loam and seed slopes	5 days	Sun 7/15/07	Fri 7/20/07
108	Open bridge to two lanes of two-way vehicular traffic and pedestrian traffic	0 days	Sat 7/21/07	Sat 7/21/07
109	Remove all remaining detour signs	2 days	Sat 7/21/07	Mon 7/23/07
110	Demobilize	6 days	Sat 7/21/07	Fri 7/27/07



Bridge No. 50 in Woodstock, VT
Date: Mon 11/6/06

Task | Split | Progress | Milestone | Summary | Project Summary | External Tasks | External Milestone | Deadline