

Timeline of Maintenance Activities on General Sullivan Bridge (NH Bridge 200/023)

Date(s)	Source	Action/Subject	Funding/ Cost
May 15, 1984	Inter-department Memorandum, Special Bridge Projects	Subject: Spaulding Tpke, US 4, NH 16 Southbound over Little Bay; notes repairs needs and general maintenance	
May 18, 1984	Entry in 1984-2007 Maintenance Record	Reattached insp. Plates on sidewalk + placed plates over hole in easterly sidewalk.	
May 23, 1984	Inter-department Memorandum, Bridge Maintenance	Subject: Various Minor Repairs; notes record of maintenance of GSB (reference letter May 15, 1984)	
August 18, 1984	Entry in 1984-2007 Maintenance Record	Cleaning + mortaring joints on piers.	
September 1, 1984	Entry in 1984-2007 Maintenance Record	Mortaring joints on piers.	
September 8, 1984	Entry in 1984-2007 Maintenance Record	Mortaring joints on piers.	
September 15, 1984	Entry in 1984-2007 Maintenance Record	Comp. mortaring joints on piers. Greased rollers.	
April 1, 1986	Department of Public Works and Highways Letter response to private citizen	Individual requested road maintenance of GSB since he frequently bicycles over the GSB.	
August 13, 1988	Entry in 1984-2007 Maintenance Record	Greasing roller & set floatation rafts	
August 20, 1988	Entry in 1984-2007 Maintenance Record	Completed greasing roller essem. & install new tide gauges on Pier.	
August 27, 1988	Entry in 1984-2007 Maintenance Record	Working on tide gauges.	
June 10, 1989	Entry in 1984-2007 Maintenance Record	Assisting inspection team. Crew #11.	
June 11, 1989	Inter-department Memorandum, Bureau of Bridge Design	Subject: GSB Use for Emergency Detour; makes note of deterioration of the top surface of the concrete slab hidden by the asphalt pavement being present in "28 of 84 test holes in 1974". Notes delamination in several areas on underside of the deck. Notes deck is being raised off stringers due to layers of rust between top flanges and concrete deck. (Describes more re: condition.) Ends with action needed to allow single-lane of light traffic to use the bridge.	
June 17, 1989	Entry in 1984-2007 Maintenance Record	Assisting inspection team. Crew #11.	
June 24, 1989	Entry in 1984-2007 Maintenance Record	Chipping and removing sidewalk on U/S side at east end. Forming sidewalk and welding bridge rail at various locations. Crew #11.	
July 1, 1989	Entry in 1984-2007 Maintenance Record	Continued chipping deteriorated areas of U/S catwalk, formed and poured first section. Crew #11.	
July 8, 1989	Entry in 1984-2007 Maintenance Record	Stripping and forming alternate sections of sidewalk on U/S side. Also installing steel plates at expansion joints and bolting down. Crew #11.	
July 15, 1989	Entry in 1984-2007 Maintenance Record	Stripping and forming alternate sections of sidewalk on U/S side. Crew #11.	
July 22, 1989	Entry in 1984-2007 Maintenance Record	Stripping and forming alternate sections of sidewalk on U/S side. Also started on deck areas. Crew #11.	
July 29, 1989	Entry in 1984-2007 Maintenance Record	Removing deteriorated sections of deck, forming and pouring. Crew #11.	
August 5, 1989	Entry in 1984-2007 Maintenance Record	Formed, placed re-steel, and poured various deck sections. Crew #11.	
August 12, 1989	Entry in 1984-2007 Maintenance Record	Formed, placed re-steel, and poured various deck sections. Crew #11.	
August 19, 1989	Entry in 1984-2007 Maintenance Record	Formed, placed re-steel, and poured various deck sections. Crew #11.	
August 30, 1989	Entry in 1984-2007 Maintenance Record	Completed forming, placed re-steel, and pouring various deck sections. Crew #11.	

November 24, 1990	Entry in 1984-2007 Maintenance Record	Assisting in Inspection. Crew #12.	
December 1, 1990	Entry in 1984-2007 Maintenance Record	Assisting in inspection. Crew #12.	
May 18, 1991	Entry in 1984-2007 Maintenance Record	Repair fellow guard and lighting. Crew #11.	
June 22, 1991	Entry in 1984-2007 Maintenance Record	Install tide guages. Crew #11.	
August 3, 1991	Entry in 1984-2007 Maintenance Record	Install tide guages. Crew #11.	
May 27, 1995	Entry in 1984-2007 Maintenance Record	Replace tide guage on General Sullivan Bridge.	
June 13, 1996	Inter-department Memorandum, Bureau of Materials and Research	Subject: GSB Bridge Coating Evaluation; notes condition of existing coating and steel corrosion. Memo concludes with recommendation to "blast down to bare metal and then repaint with an organic zinc primer, an epoxy intermediate coat and a top coat of polyurethane."	
March 21, 1998	Entry in 1984-2007 Maintenance Record	Replace navigation light bulbs on U/S side of bridge.	
August 22, 1998	Entry in 1984-2007 Maintenance Record	Assist Turnpike's electrician in troubleshooting navigation light electrical problem. Replace and splice wire as needed.	
October 1, 1998	Inter-department Memorandum, Bureau of Turnpikes	Subject: GSB - Condition of Deck and Navigation Lights; memo addresses concerns regarding bridge condition; outlines two key problems with lights and GSB structure.	
October 9, 1998	Site photographs with "repaired" hand-written notes on a few of the photos.	South abutment and backwall spalling, exposed rebar; asphalt hole at joint patch; steel plate settled 4"; heavy spalling/exposed rebar at north end; delaminations over walkway; asphalt hole at joint patch	
November 23, 1998	Inter-department Memorandum, Bureau of Turnpikes, Bridge Maintenance, and Bridge Design	Subject: GSB; concerns regarding navigational lighting system and deterioration of the steel superstructure and concrete deck; proposed cost estimates to maintain the GSB (est. \$20,000 per year).	
March 4, 1999	NHDOT Request for Project Authorization - by Bridge Maintenance	Description of Work: repair south abutment	
March 4, 1999	Entry in 1984-2007 Maintenance Record	Repair south abutment face at seat area as needed. Repair deck areas for pedestrian access as needed.	
March 18, 1999	Entry in 1984-2007 Maintenance Record	Move equipment and materials to project. Remove rip-rap at face of south abutment and remove deteriorated concrete at same. Haul concrete debris from project.	
March 25, 1999	Entry in 1984-2007 Maintenance Record	Remove deteriorated concrete at south abutment face. Haul concrete debris from project.	
March 29, 1999	Inter-department Memorandum, Bureau of Public Works	Subject: GSB - Navigation Lights; cost estimate to complete work to replace the navigation lights	Estimated at \$45,000.00
April 1, 1999	Entry in 1984-2007 Maintenance Record	Erect Spider staging at east end of bridge. Construct temporary shield to catch demolition debris and remove shoring at east end.	
April 8, 1999	Entry in 1984-2007 Maintenance Record	Place re-steel at east abutment face. Remove pavement and deteriorated concrete at deck side of east expansion joint; place re-steel, set forms, and place concrete at same. Place and removed steel traffic plates daily. Haul concrete debris from project.	
April 15, 1999	Entry in 1984-2007 Maintenance Record	Remove barricades at easterly expansion joint and open to pedestrian traffic. Set forms and place concrete at east abutment face (two lifts). Remove staging at east end of bridge.	

April 22, 1999	Entry in 1984-2007 Maintenance Record	Place backfill and rip-rap at E abutment. Repair areas of structural steel section loss as needed. Apply anti-spall compound. Paint bridge shoes and bearing plates at east end. Clean up project site. Move materials and equipment from project. SUSPENDED	
May 25, 1999	Letter regarding navigational lights.	Letter of approval from USCG to NHDOT for proposed replacement of navigational lights, with attached placement plan.	
June 3, 1999	Bid Results: Replace Navigation Lights, GSB	Yates Electric Service Inc., Farmington, NH	
March 6, 2000	Entry in 1984-2007 Maintenance Record	Repair float, dock and walkway as needed to keep in service. Assist with installation and removal.	
March 9, 2000	Entry in 1984-2007 Maintenance Record	Move equipment and materials to project. Reinforce bridge rail to support Spider staging.	
March 16, 2000	Entry in 1984-2007 Maintenance Record	Reinforce bridge rail and install Spider staging and work platforms at west side of a second joint. Install false work to catch concrete removal debris. Remove expansion joint plates and adjacent pavement at same.	
March 23, 2000	Entry in 1984-2007 Maintenance Record	Remove deteriorated concrete from ends of deck section at expansion joint #2. Place reinforcing steel and set forms at same.	
March 30, 2000	Entry in 1984-2007 Maintenance Record	Place concrete at west end of deck at expansion joint #2. Remove deteriorated concrete east end of deck section at expansion joint #2. Place reinforcing steel and set forms at same.	
April 6, 2000	Entry in 1984-2007 Maintenance Record	Place concrete at west end of deck at expansion joint #2. Remove staging and false work at same. Remove inland tide gauge to be replaced at a later date.	
April 13, 2000	Entry in 1984-2007 Maintenance Record	Replace inland tide gauge. PROJECT SUSPENDED.	
April 27, 2000	Entry in 1984-2007 Maintenance Record	Install Dow-Corning sealant at expansion joint #2.	
June 5, 2000	northeast decking depressed area; torn compression seal; damaged rail and post at west	Site photographs with "repaired" hand-written note on damaged rail photo.	
June 8, 2000	Entry in 1984-2007 Maintenance Record	Remove existing D/S tide gauge and bracket. Install new bracket anchors and install tide gauge.	
February 27, 2001	Entry in 1984-2007 Maintenance Record	Repair deck and joints to keep in service for pedestrian traffic.	
March 1, 2001	Entry in 1984-2007 Maintenance Record	Move equipment and materials to project.	
March 8, 2001	Entry in 1984-2007 Maintenance Record	Move equipment and materials to project.	
March 15, 2001	Entry in 1984-2007 Maintenance Record	Assist Crew 15 with erection of staging for deck repairs.	
March 15, 2001	Entry in 1984-2007 Maintenance Record	Move equipment and materials to project. Reinforce bridge rail as needed and erect staging for deck repairs.	
March 22, 2001	Entry in 1984-2007 Maintenance Record	Assist Crew 15 with erection of staging for deck repairs.	
March 22, 2001	Entry in 1984-2007 Maintenance Record	Erect Spider staging and debris shield at north end expansion joint. Remove deteriorated concrete and expansion joint steel at same.	
March 29, 2001	Entry in 1984-2007 Maintenance Record	Remove asphalt and deteriorated concrete at expanse joints as needed. Set forms at same.	
April 5, 2001	Entry in 1984-2007 Maintenance Record	Place concrete at north end expansion joint. Move equipment and materials from project.	
April 19, 2001	Entry in 1984-2007 Maintenance Record	Remove Spider staging from bridge. Move equipment from project.	

January 11, 2002	Inter-department Memorandum, Office of Bridge Design	Subject: GSB Possible Temporary Measures; describes inspection results from 1989 and 1991; summarizes 1991 report repair estimates (in 1991 and 2002 \$), including: (1) New deck, guardrails & pedestrian rails, pavement, exterior stringers, steel repairs, seismic isolation bearings, paint removal, cleaning and repainting. (2) All the above plus pier encasements. (3) All the above plus new piers. (4) New replacement structure.	
March 27, 2002	Entry in 1984-2007 Maintenance Record	Remove and replace expansion joints, repair deck and sidewalk.	
April 4, 2002	Entry in 1984-2007 Maintenance Record	Move materials and equipment to project. Hang Spider Staging at expansion joint as work platform.	
April 11, 2002	Entry in 1984-2007 Maintenance Record	Clean tide gauge and replace navigation lights as necessary. Remove expansion joint sliding plate and deteriorated concrete adjacent to it.	
April 18, 2002	Entry in 1984-2007 Maintenance Record	Form, place reinforcement steel and concrete at second expansion joint from the north.	
April 25, 2002	Entry in 1984-2007 Maintenance Record	Remove and replace deteriorated concrete adjacent to sidewalk.	
May 2, 2002	Entry in 1984-2007 Maintenance Record	Remove deck joint falsework and Spider Staging. Move materials and equipment from project.	
May 9, 2002	Entry in 1984-2007 Maintenance Record	Remove concrete spalls on the under side of deck on the main span over river traffic.	
March 18, 2004	Entry in 1984-2007 Maintenance Record	Replace missing electrical pull box covers as necessary.	
August 11, 2005	Entry in 1984-2007 Maintenance Record	Repair navigation lights.	
October 24, 2005	Inter-department Memorandum, Bureau of Highway Design: Recommended Preferred Alternative	Describes GSB rehabilitation steps and costs, associated with the DEIS Preferred Alternative.	
July 12, 2007	Entry in 1984-2007 Maintenance Record	Replace navigational light bulbs as necessary and secured access covers on sidewalks.	
November 18, 2010	Construction of Dover approach (before/after)	Site photographs.	
November 14, 2011	Construction of Dover approach (before/after)	Site photographs.	
March 6, 2012	Construction of Dover approach (before/after)	Site photographs.	
November 26, 2012	Section on east has weight limit of 12 people max.	Site photograph.	
November 7, 2013	Beam #2 heat straightened	Site photograph.	
March 30, 2015	Chain link fence in place for safety	Site photograph.	
Unknown	NHDOT Request for Project Authorization - by Bridge Maintenance (NOTE: approval line is unsigned)	Description of Work: remove and replace expansion joints; repair deck and sidewalk. Includes three site photographs from 1998, showing spalling and delaminations on northern end of GSB.	