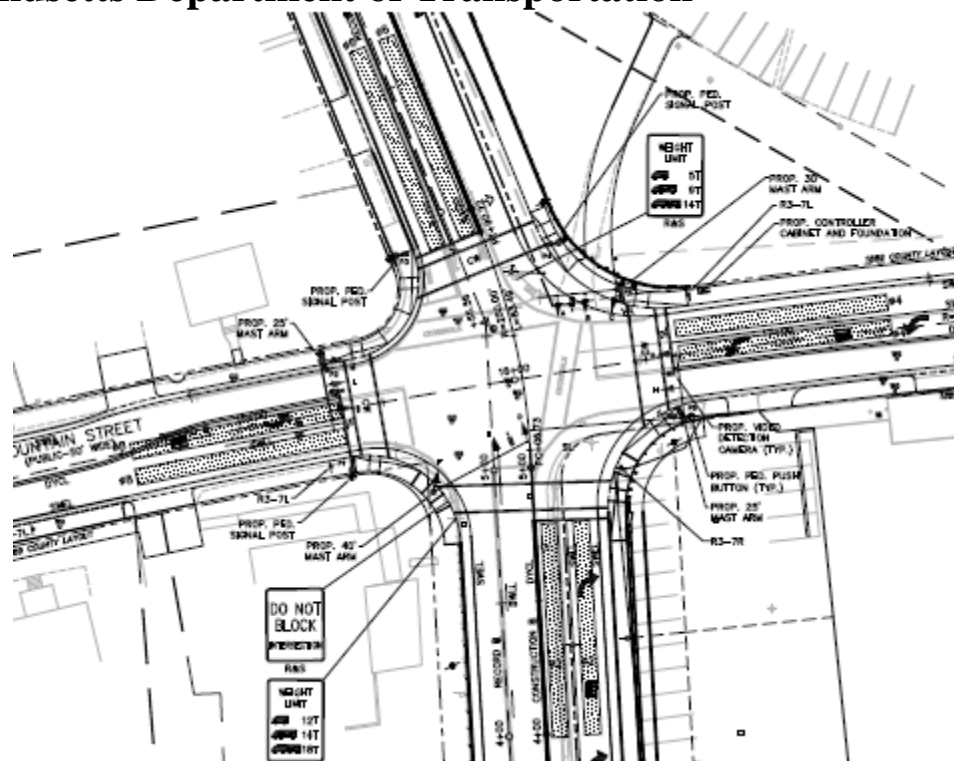


Winter Street Bridge over CSX Railroad, Framingham, MA Massachusetts Department of Transportation

Duration: 2011-2014
Project Fee: \$500,000
Firm Fee: \$20,000
Role: Sub-consultant



As a sub-consultant, TrafInfo Communications, Inc. (TrafInfo) was responsible for preparation of all of the traffic-related plans, specifications and estimate as well as construction phase services for the Winter Street Bridge Reconstruction over the CSX Railroad project.

As part of the project, TrafInfo conducted a comprehensive analysis to assess alternative construction staging concepts including a complete closure of the bridge. To assess the traffic impacts of the proposed detour, traffic analysis was conducted at 20 intersections. Using existing traffic counts, TrafInfo manually developed an Origin-Destination matrix which was used to develop traffic volumes under alternative detour plans. One concept involved one-lane two-way operations over a bridge, which was analyzed under temporary traffic signal control. Based on the analysis, a detailed detour plan was developed as part of the Traffic Management Plans.

TrafInfo was also responsible for the analysis and design of new traffic signals on either side of the new bridge. Existing signal hardware was retained to reduce the construction cost, while new video-based traffic detection system was added to improve traffic operations with least construction cost.