

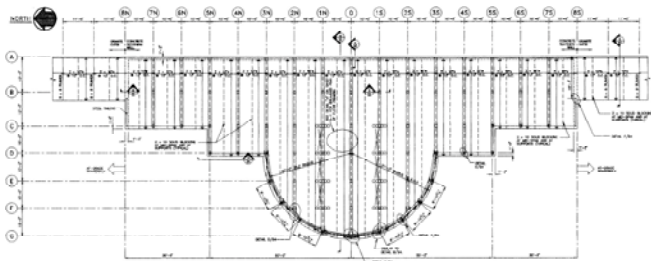
Burlington Waterfront Park Boardwalk and Promenade Burlington, Vermont

Owner: Burlington Parks and Recreation Department

Services Provided: Civil, geotechnical and structural engineering (including pile inspection)

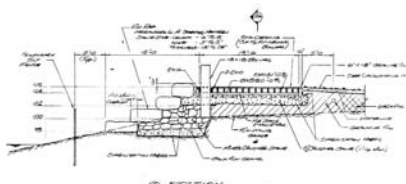


View of Promenade and Boardwalk (from Promenade)

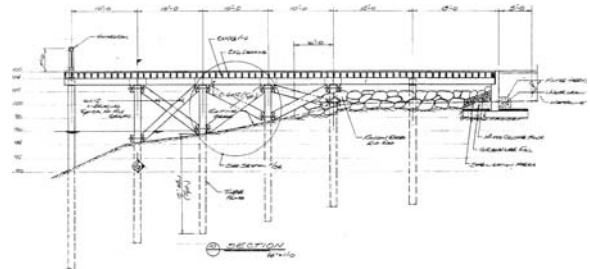


Plan View of Promenade Framing

Design Concept: The focal point of the new waterfront park was to be a 700-foot long shoreline boardwalk and promenade north of the Burlington Boathouse. The main boardwalk was to be an at-grade structure providing access to the shoreline; the 160-foot long promenade was to be an elevated structure extending out over the water.



Section of Boardwalk Framing



Section of Promenade Framing

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Design Approach: The at-grade boardwalk structure consists of pressure-treated joists, decking and 8x8 sleepers set in crushed stone. The elevated promenade structure consists of pressure-treated joists, decking and heavy timbers supported on pressure-treated timber piles all anchored to a concrete seawall. Connection of the at-grade boardwalk to the promenade was made using a “floating” bridge.

Related Design Elements: Design of the shoreline riprap and graded filter base. Design of potable and non-potable waterlines for drinking fountains and the landscape irrigation system. Design of a stormwater system to handle the 100-year rainfall.

Construction Services: Pile-driving inspection and occasional structural inspections. Project was completed in 1991.



View of Timber Piles for Promenade



View of Boardwalk Framing



View of Promenade Framing

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