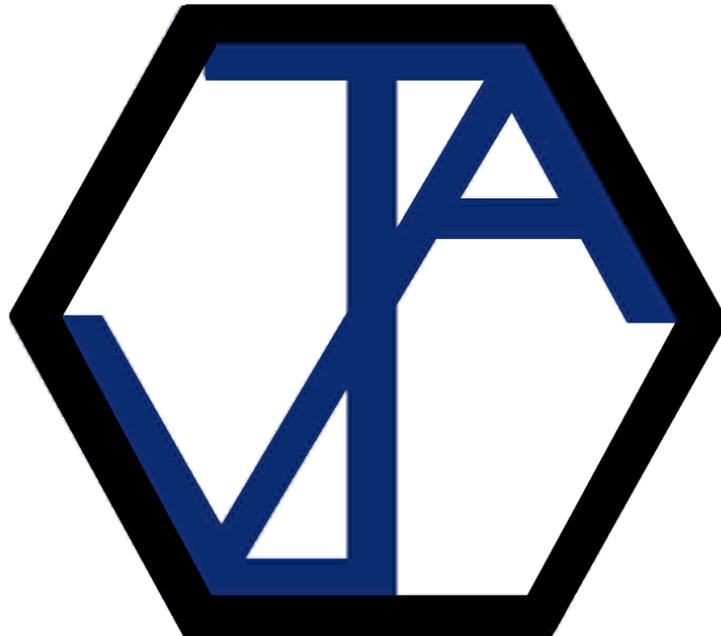


New Fermenting Cellar

Molson Breweries

Designed & Developed By:



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Prime Consultant: Villholth Jensen & Associates Ltd
Project: New Fermenting Cellar
Client: Molson Breweries

Overview - The Client:

Molson Breweries' fermenting facilities at the Burrard plant was in need of expansion so as to accommodate tanks of greater capacity. This project would include construction of a new fermenting cellar, designed to house six new 350 tonnes capacity fermenting tanks with process system.

Overview - The General Contractor:

Smith Bros. & Wilson (SBW) has played an important role in construction and development throughout Western Canada since 1897. In recent years, SBW has been actively involved in the development of existing facilities at Molson Breweries' Burrard plant.

Overview - The Consultant:

Villholth Jensen & Associates Ltd (VJA), established in 1986, is a successful Vancouver consulting engineering firm. The company has extensive local and international experience. Areas of expertise include design and development of Ports and Marine Structures, Civil and Structural Engineering, Coastal and Offshore Engineering, along with all aspects of Project Management. VJA's list of clients includes BC Ferry Corporation, BC Hydro, Placer Dome, Public Works Canada, and Vancouver Port Corporation, to name but a few.

Prior to the Molson project, VJA served as prime consultant on the Pacific Elevator Direct-Hit Facility project, with SBW acting as general contractor for the heavy civil work. Based on a good working relationship with SBW during that project, VJA was asked to play the role of prime consultant on the Molson project. VJA also acted as the engineer of record, ensuring mechanical and electrical engineering requirements were performed and certified as needed.



Construction of column and wall foundation.



Completion of column and wall foundation.



Project - Specifications:

The existing fermenting cellar consisted of tanks standing directly on the cellar floor, resulting in severe access restrictions to the process piping and operation. As part of a new solution, the Client wanted the heavy fermenting tanks supported by the cellar deck structure.

Project - Design & Construction:

Planning and design of the new fermenting facility began in the spring of 1998. Initially, a steel structure solution was investigated. However, the monolithic reinforced concrete structure was selected as the preferred structural arrangement. The detailed design of the concrete structures was completed in late summer and the excavation for development was initiated in October 1998.

Design of the remaining concrete and steel structures progressed throughout the construction phase. Meanwhile, the design and manufacturing of the fermenting tanks was under way in Germany. The design of these tanks was reviewed by VJA.

Construction of the columns and wall foundations was initiated in late October 1998. The bulk of the construction of the walls and columns was completed a month later, while the cellar deck structure with tank support was completed mid-January 1999.

Project - Successful Completion:

The fermenting tanks were delivered in late-January 1999 and installed shortly thereafter. Meanwhile, outstanding work to the concrete and steel structures was completed in April 1999.

The floor and wall finishing work, along with the installation of the process equipment was completed in May 1999. The landscaping and paving work was also completed in May 1999.



Completion of raw cellar structures.



Fermenting tank support structures.



Cellar view of finished project.



The client has expressed their satisfaction with the design and the overall course of the project. With the new fermenting tasks supported directly on the cellar deck structure, the basement has been opened up to allow open access to key areas of the facility. One of the benefits of this new facility is the practical and esthetical installation of the process equipment.



New entrance to Molson Breweries' Burrard plant.

In Conclusion:

Molson Breweries' new Fermenting Cellar Facility is only one example of VJA's commitment to quality. Our team of Professional Consulting Engineers is committed to the efficient planning and engineering of projects, combining technical skill with environmental sensitivity.



Completed fermenting facility at Molson Breweries' Burrard plant.

For more information about our services, please visit our web site at www.vja.bc.ca, or call us at (604) 985-0781.