



Con-Tech Systems Ltd.

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October 2014

Please visit us:

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IFCEE
March 17 - 21, 2015
San Antonio, TX

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For more info please visit our website under "Meet Us":
www.contechsystems.com

Exclusive
North American
Supplier of:



Geo-Support Systems

We are a member of:



Double Project Issue: Southwest Contracting Ltd. Dual Project Feature (page 2-3)



Before we feature our two projects this month we would like to take a quick moment to congratulate:

ADSC Raffle winner Lance Kitchens!

Con-Tech Systems had the privilege of unveiling our new **HRTB product (Hot Rolled Thread Bar)** at the recent product presentation portion of the **ADSC Summer Meeting** in Nashville, TN. Part of the duty of the presenter is to provide a \$100.00 raffle prize for the contractor members in attendance. **Lance Kitchens of Russo Corporation** located in Birmingham, AL was the lucky winner of a \$100 gift certificate which was used towards the ADSC Woman's Association silent auction. Congrats Lance, and we hope your family enjoyed the Southern Spice Basket you successfully outbid your fellow contractors on!



Lance Kitchens and family

“Evergreen” Transit Line, Vancouver B.C.

The new “Evergreen” Rapid Transit Line is located in Burnaby and Coquitlam near Vancouver, British Columbia. Once completed in 2016, it will provide a continuation of this city’s current “SkyTrain” transit network for local commuters. Local contractor [Southwest Contracting Ltd.](#) recently received an award for their important role in this high profile project in which the superior quality **CTS®TITAN Hollow bars** were used. The SNC-Lavalin - Graham Construction Joint Venture, SGJV, required three phases of shoring and excavation beneath eight lanes of arterial road to establish the launch pit for the Evergreen Line Tunnel Boring machine in Port Moody, BC.

Scope of Work

- Excavation volume: ~22,000 cubic yards.
- Excavation depth: 23’ - 48’.
- Shoring wall area: ~18,800 square feet.
- Shoring anchors: **635 CTS TITAN 40/20 Hollow Bar Anchors** totalling 19,304 feet and Fiberglass Anchors were installed.
- Jet grout columns: 86 columns, drilled to 62’ depth, jetted to 46’ depth; varying diameters of 1m - 3m dependent on soil conditions.
- Secant piles: 66 reinforced secant piles and 86 unreinforced soldier piles; 900mm diameters, with varying depths of 20’ to 65’.
- Utility support: 50 foot span supporting sanitary and gas mains.
- Civil works: raising of 300mm water main and 450mm sanitary sewer, re-alignment of Barnet Hwy.



Please feel free to contact [Marek Zawierucha](#) of [Con-Tech Systems](#) at: marek@contechsystems.com for any further information.

Shown below: the installation of **CTS®TITAN Hollow Bars** prior to the tunnel boring start.



North Vancouver B.C., “Low Level Road”

This existing road in North Vancouver B.C., adjacent to the rail road tracks, had to be relocated to make room for additional rail road spur lines. The new, “Low Level Road” was moved upwards, supported by a series of retaining walls which also support the additional cut which was required. 625 **CTS®TITAN 40/20 IBO® Hollow Bar Anchors**, totaling 15,000 feet, were installed. In lieu of double corrosion protection of these permanent anchors, the **sacrificial steel method** was applied which is an important feature of the **special fine grain CTS® TITAN Hollow Bar steel**. This was confirmed by the Vancouver based Corrosion Consultant Levelton and Associates after soil tests indicated the aggressiveness of the soil, which dictated the loss of steel over 100 years life. This method can only be applied to special steels. We are very proud to have worked with **Southwest Contracting Ltd.** on this complex and delicate project.



Project at a Glance:

Owner: Port Metro Vancouver, Vancouver Fraser Port Authority

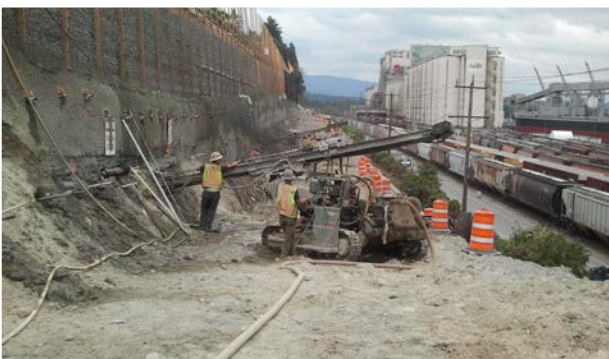
General Contractor: B&B Construction

Specialty Sub-Contractor: Southwest Contracting Ltd.

CTS® Product: 625 **CTS®TITAN 40/20 IBO® Hollow Bar Anchors**

Consulting Engineers: Stantec

Location: North Vancouver, British Columbia, Canada



Next scheduled Con-Tech Systems Ltd. Newsletter:
November 2014

