

## David Nairne + Associates

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ACCEPTED

AUG 15 2013  
N Francoi  
Engineering Development Services  
District of North Vancouver

DNA 4781

July 24, 2013

District of North Vancouver  
355 West Queens Road  
North Vancouver, BC V7N 4N5  
Attn: Nelly Franscois, AScT, BTech  
Supervisor Engineering Development Services

**RE: Engineer's Cost Estimate of Structural Work  
3707 – 3739 Dollarton Highway, North Vancouver, BC**

Please note DNA's revised cost estimate for the construction of the proposed concrete retaining walls, concrete stairs and pedestrian bridge for the referenced project:

on-site

Item	Work	Qty	Unit	Cost Estimate
1	Concrete retaining wall with bench	230	lineal ft	\$ 105,000
2	Bridge structure and concrete foundations	29.5	span ft	\$ 56,000
<del>3</del>	<del>Concrete retaining wall &amp; stairs at cul de sac</del>	<del>40</del>	<del>lineal ft</del>	<del>\$ 43,000</del>
4	Concrete retaining wall at lower edge of path	230	lineal ft	\$ 56,000
5	<b>Sub Total Construction</b>			<del>-\$ 260,000</del> \$217,000
6	GST @ 5% on (5)			<del>-\$ 13,000</del> 10,850
7	<b>Sub Total Construction plus GST</b>			<del>-\$ 273,000</del> \$227,850
8	Add 25% Contingency to (7)			\$ 68,250 56,962
9	<b>Grand Total</b>			<del>\$ 341,250</del> \$284,812

## Notes:

1. Cost estimate is based on DNA drawings (February 10, 2012 Issued for building permit) and Forma Design drawings (July 4, 2012 "Resubmitted to DNV")
2. Cost estimate does not include mobilization costs, granite facing, landscaping, guard railing, fences, underground services, roadwork, pipe piled shotcrete retaining walls (designed by geotechnical engineer), precast block (Allen block) retaining wall systems, consultant fees and permit fees.
3. Cost estimate does not include the concrete walls and stairs at the lower pathway.
4. Cost estimate includes 15% allowance for contractor overhead and profit.
5. Cost estimate includes allowances for local excavation and backfill behind structural retaining walls.
6. Cost estimate for Item 4 is based on a 3 ft tall wall on top of a 10" thick footing over the entire length.
7. Cost estimate is based on 2013 dollars with all construction completed as a single project with no phasing.

DNA's cost estimate letter of July 21 is no longer valid. Please contact us if you have any questions or require further information regarding the above.

Sincerely,  
**David Nairne + Associates**

Brian Fortier, P.Eng.  
Project Engineer – Structural Group

Copy: Nick Ebrahim, Forma Designs Inc.

Brian Fortier

July 24/13