

# Richmond Speed Skating Oval

Richmond, British Columbia

*105m V-shaped  
Composite arches  
... a very tricky task!*

owner ... *City of Richmond*  
contract ... *\$2,000,000*  
duration ... *9 months*  
completion ... *November 2007*

*Working under Dominion  
Fairmile Construction Ltd.,  
KWH was sub-contracted to  
erect the roof structure for  
the Olympic 2010 Speed  
Skating Oval.*

*The challenge...*

*sixteen v-shaped glulam  
and steel composite arches.  
Each arch spans 105m,  
weighs 80 tons and requires  
intricate splice connections.*

*KWH designed all  
specialized lifting and  
support devices to safely  
handle the delicate arch  
sections.*



erection of the self-supporting composite arches on temporary shoring towers



lift of 40 ton section employed specialized lifting devices



jacking support frames take full weight of arch until the arch is complete and end plates are grouted

