

**BEBO Arch System - Reference List of major cut-and-cover tunnels**

Country	Project Name	Location	Construction Method	Description / Specialties	Picture
Switzerland	Mariazell	Lucerne	c-i-p	Twin tube tunnel on strip footings. Extremely slender arches with up to 8m overfill.	
	Stephanshorn	Saint Gall	c-i-p	Value Engineering of arch structure and construction process led to considerable savings compared to bid project.	
	Airport Line	Zurich	c-i-p	Single tube railway tunnel designed for future aircraft of 1000 tons. Tunnel is fully waterproofed, and partly under groundwater.	
	Chèvres	Geneva	c-i-p	Value engineering of arch structures led to considerable savings over bid project.	
Malaysia	Penampang Bypass	Sabah	precast	Precast twin tube tunnel on strip footings designed for up to 12m overfill.	
Australia	Yandina Bypass	Yandina	precast	Twin-leaf precast arch installed over railway under operation	
USA	Hibbing Taconite	Hibbing, MN	precast	Two 80m long precast twin-leaf arch structures.	

Notes: c-i-p = cast in place