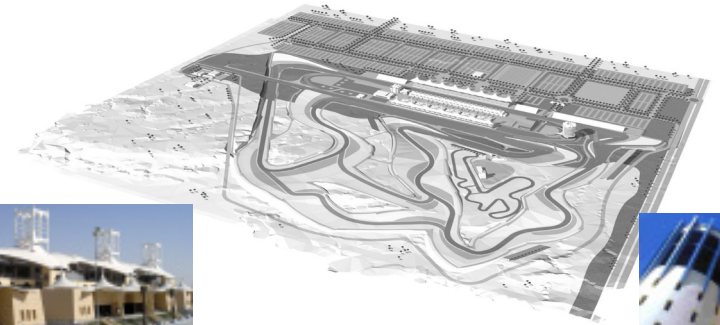


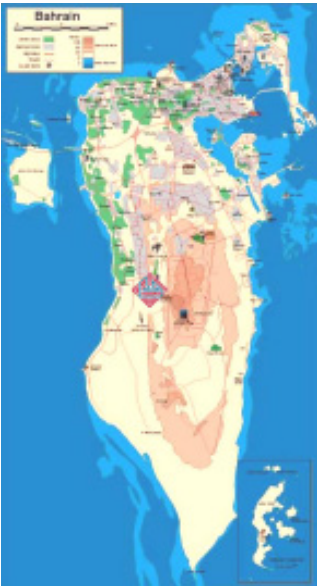


CLIENT Ministry of Works, Kingdom of Bahrain
CONTRACT SUM RM 586, 000, 000.00
CONTRACT PERIOD 16 Months
YEAR OF CONSTRUCTION 8th November 2002 to 5th March 2004
PROJECT CONSULTANT Tilke & Partners W.L.L.



Project Components

RACING TRACK	5.41 km	
MAIN GRANDSTAND	20,000 m ²	
PIT BUILDING	18,000 m ²	
ANCILLARY BUILDINGS	Multi-Purpose Building	12,000 m ²
	Sakhir (VIP) Tower	7,500 m ²
	Team Buildings	5,000 m ²
	Media Centre	2,000 m ²
	Medical Centre	460 m ²
	Workshop Building	810 m ²
	Entrance Gates (3 buildings)	180 m ²
	Workers' Lodging Building	930 m ²
PLANT BUILDING	180 m ²	
VIP TOWER BUILDING	7,500 m ²	
PARKING AREAS	590,000 m ²	
DRAINAGE SYSTEM		
TEMPORARY STANDS		



▲ Top: Rock drilling works; Bottom: Installation of tensile fabric roofing



The Project

The Bahrain International Circuit is located in the southwest of the Kingdom of Bahrain between the Al-Areen Wildlife Park and the University of Bahrain. Covering a total area of 170 hectares, the track construction is the second that WCT has been involved in, making it the only contractor in the world to have built two Formula One circuits.

The Bahrain International Circuit was completed in sixteen months, in time for its first Formula One race in April 2004.

Facilities provided at the Bahrain International Circuit includes:

- A Technical resource Centre dedicated to an F1 Grand Prix or any other international race event, located on the start/finish straight.
- Main grandstand for 70,000 spectators and first class hospitality suites
- Dedicated buildings for international racing teams
- Administration and hospitality buildings
- Multi-purpose second pit building with lounges and grandstand for six thousand spectators
- A Medical Centre constructed and equipped to international racing standards
- Broadcast centre for 500 journalists
- Under track pedestrian and vehicle tunnels
- VIP viewing area (Sakhir Tower)
- Vending area for merchandising
- Helicopter landing facilities
- Excellent road access and parking facilities

Some of the major quantities of the project are:

- | | |
|---------------------------------|------------------------|
| • Total built up area | 65,000 m ² |
| • Concrete | 70,000 m ³ |
| • Rock excavation | 730,000 m ³ |
| • Soft excavation | 120,000 m ³ |
| • Track asphaltic works | 104,000 m ² |
| • Services road asphaltic works | 154,000 m ² |
| • Asphalt run off | 70,000 m ³ |
| • Gravel run off | 65,000 m ³ |
| • Tensile roofing | 31,000 m ² |
| • Triple guardrail | 12,000 m |
| • Single guardrail | 6,000 m |



▲ Building construction in progress



▲ Top & Above: Track construction in progress



▲ Above: Construction of team Buildings and Oasis Complex (Background)

The Track

The Bahrain International Circuit is made up of six different individual tracks:

- The **Grand Prix Track** is the main racing track with a length of 5.41 km and 16 turns. The width of the track varies from 14 to 22m. The track has a maximum uphill slope of 3.6% and a maximum downhill slope of 5.6% with a relief that ranges from 0 to 18m.
- The **Inner Track** with a width varying between 13m to 15m is 2.55km long (8 turns)
- The **Outer Track** with a width varying between 13 to 17 metres is 3.664 km long (10 turns)
- The 1.2 km **Drag Strip** with a width of 18.5 m
- The 2.5 km **Test Oval**
- The 3.6 km **Paddock Circuit** 14-22m width (9 turns)



▲ The Bahrain International Circuit - 6 different individual tracks, Grand Prix track with four straights and 16 turns



Based on our experience in the Malaysian Formula One circuit, special materials and stringent quality control in executing the pavement works were adopted comprising of material control, workmanship and skilled workforce during the execution of the works. The track is also built using the same specially formulated Polymer Modified Bitumen (PMB) compound which is smooth and non-abrasive.

Safety features included around the track as part of FIA requirements are triple guardrails, FIA fences, tyre barriers, positive kerbs, negative kerbs and flat kerbs.

Gravel beds with gravel size of 5/15mm, round grain and in accordance with FIA requirements are installed to a thickness of 250mm around crucial areas of the track.

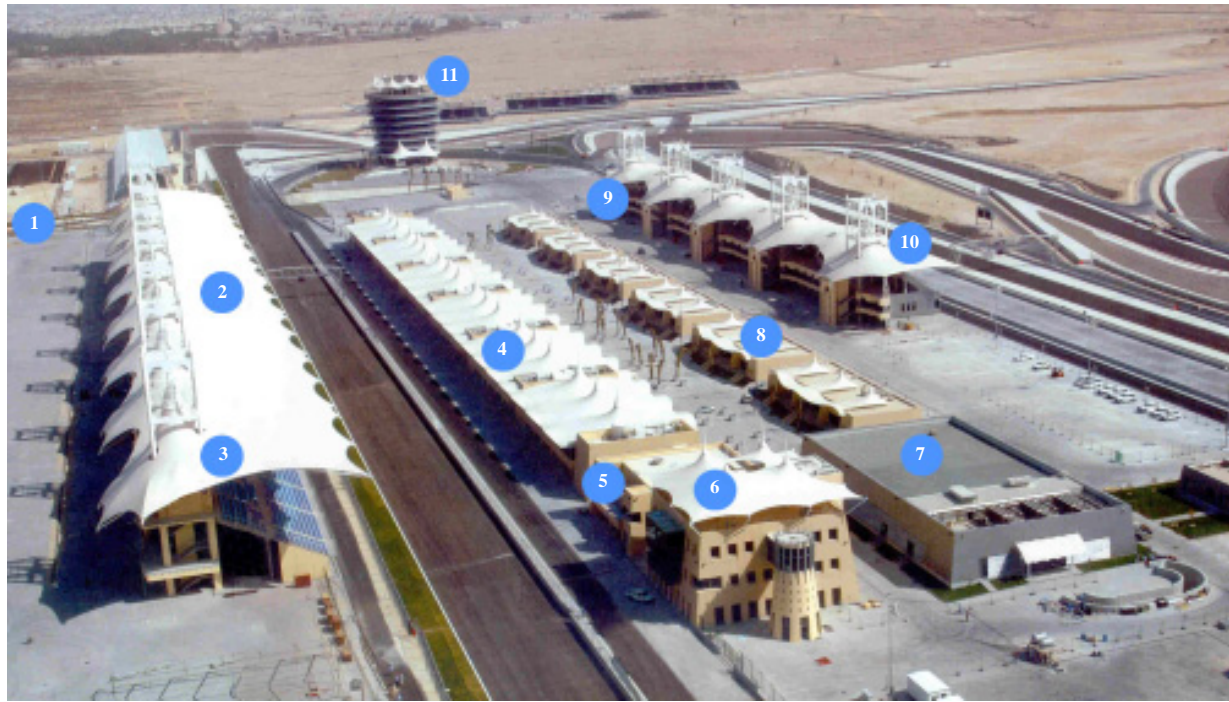
The Facilities

The circuit can accommodate a capacity of 10,000 spectators on the main grandstand and a further 50,000 spectators on other stands around the circuit which includes all non-permanent stands. The Pit Building with lounges and a grandstand can accommodate another 3,000 spectators.

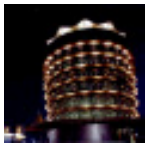
Together, the landmark VIP Viewing Tower, first class Hospitality Suites, grandstands and spectator areas cater for a total of 70,000 people

The facilities that are available at the Bahrain International Circuit are:

Main Grandstand	20,000 m ²
Pit Building	18,000 m ²
Multi-Purpose Building	12,000 m ²
VIP Tower	7,500 m ²
Team Buildings	5,000 m ²
Media Centre	1,750 m ²
Medical Centre	450 m ²
Workshop Building	850 m ²
Plant Building	1,000 m ²
Entrance Gates (3 buildings)	150 m ²
Workers' Lodging Building	450 m ²



- ▲ 1. Main Entrance
- 2. Main Grandstand
- 3. Corporate Boxes
- 4. Pit Buildings
- 5. Winners' Podium
- 7. Media Centre
- 8. Team Buildings
- 9. VIP Lounges
- 10. Oasis Complex



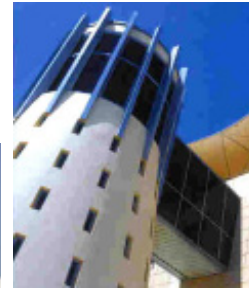
▲ VIP Tower construction



▲ Main Grandstand completed (Top) and in construction (Bottom)



Right: Team Buildings; Top: Tensile roofing



▲ Left to Right: Race Tower



Clockwise from Top: Pit Building; Oasis Complex; ▲ Construction of Media Centre



▲ Main Entrance completed (Top) and in construction (Bottom)



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