ACO Case Study

Sydney Olympics 2000

This book is a 2026 reprint of the original created in 2000.

ACO. we care for water

Aerial view of Homebush and the construction of SIAC

The Olympic Bid

In the late 1980s, Sydney took the decision to bid for the 2000 Olympic Games and Paralympic Games.

As part of the bid a suitable location for Olympic sites would be required and a facility built as a platform for the bid. The decision, in the early 1990s, was made to locate the sports venues within the area of Homebush Bay.

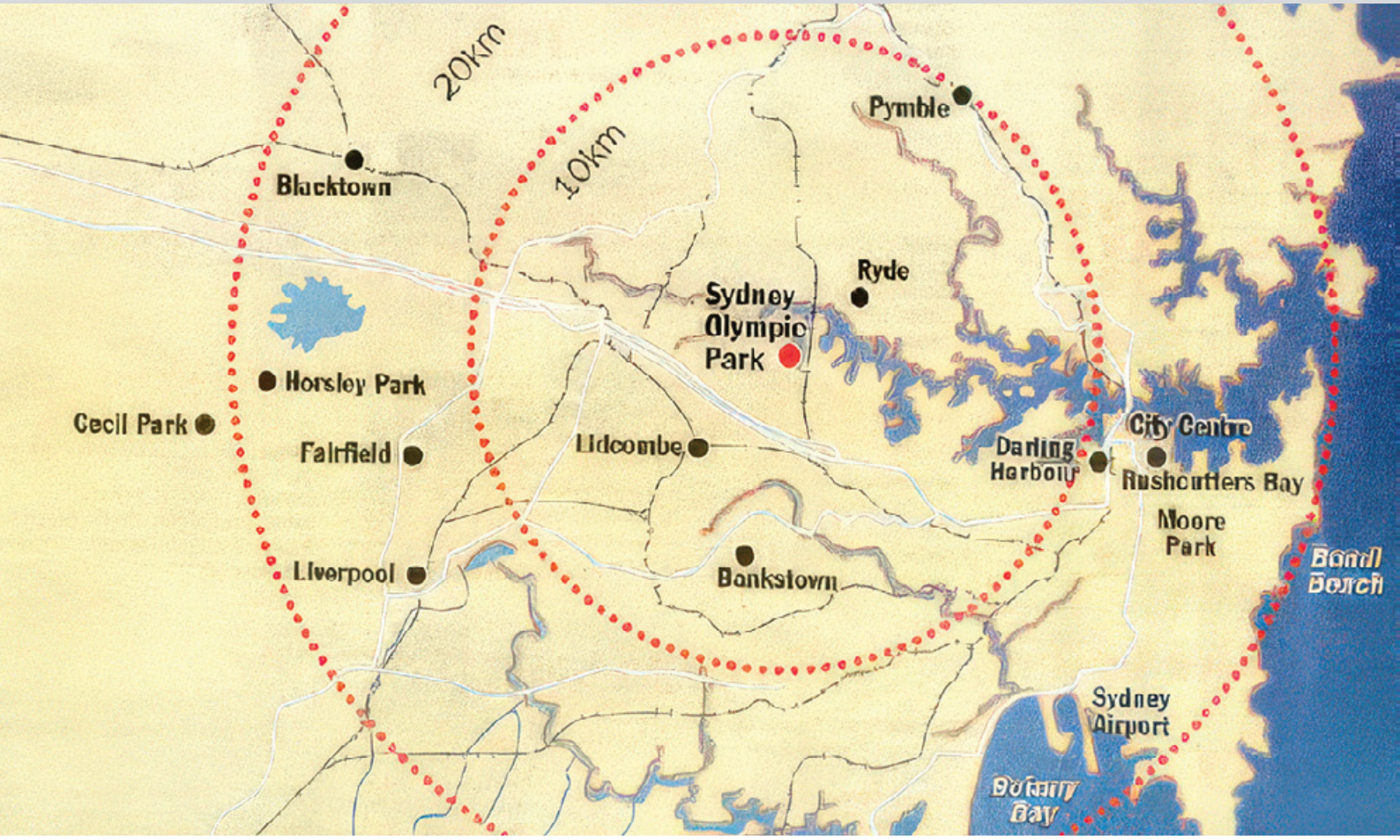
As the platform for this bid, the Sydney International Athletics Centre (SIAC) and a world-class aquatic centre were to be built by 1994.

SIAC running track complete

SIAC running track under construction and the polymer concrete drain system

The area of Homebush Bay was a mixture of small industrial units, the NSW abattoir, a munitions site, brick pit and a mixture of wetlands, park and scrub.

The central part of the bid was the new Olympic standard running track at SIAC, with its warm up track and the Olympic-sized swimming pool located at the aquatic centre. As the running track was to be to Olympic standards, the design engineers, R A Young of Canberra, used the locally manufactured polymer concrete channel drain system around the track. This channel system was a clone of the ACO N100 channel, complete with slotted Polymer Concrete cover. The track was laid by Balsam Pty Ltd., also located in Sydney. Both tracks were equipped with 400 metres of polymer concrete drain and covers.



The Venues

The majority of venues for the 2000 Games were built on greenfield sites, with many of the venues within the Homebush Bay area. Certain venues had to be built away from Homebush Bay, to accommodate sports such as sailing and rowing, where the Homebush location was not ideal. All the Olympic venues (with the exception of some of the soccer matches, which took place in existing stadiums in Adelaide, Brisbane, and Melbourne) were within a 50 km radius of the CBD of Sydney.

Contents

Olympic Park

The centrepiece for the games was Olympic Park located within Homebush Bay. It is here that the majority of sports venues are located along with the Olympic Village.

In 1996, the bid master plan was re-evaluated and a new plan laid out an urban core surrounded by parklands. The urban core would be cut by the Olympic Boulevard and all the landscape areas between the venues would be tied together by the Public Domain. The design for this Public Domain was laid out by the San Francisco landscape architect George Hargreaves. With the master plan complete, individual venues were contracted out for design and integration into the Public Domain.

To ensure the maximum specification of products, ACO contacted all designers that influenced the choice of products used in these venues.

Archery at Homebush

Archery Park

The $3 million, 6.5 hectare archery complex was built during 1998 and is situated between the Olympic Park and Ferry Wharf. The site consists of a 183 x 100 metre field with a pavilion to provide shade and protection for the archers. Car parking and a spectator park were built, with the entranceway being distinguished by 185 recycled electricity poles creating a sculpture. ACO supplied channel drains across the entrances, electrical pits and recessed access covers for the electric supply to the pavilion.

Architect:	CPTC/Ancher Mortlock & Woolley/Pavilion
Contractor:	Theiss/Baulderstone/Concrete Constructions
Project Manager:	Australian Pacific Projects
Engineering:	Hyder/SCP/Ove Arup & Partners
Hydraulic Engineers:	HTR
Electrical Engineers:	Bassett Consulting/Barry Webb & Associates

The unusual shaped roof of the Archery centre

ACO Drain K200S with slotted ductile iron grates across car park entrances

Brass edged ACO access covers were used on top of the polymer concrete electrical pits

S170 installed in the test area

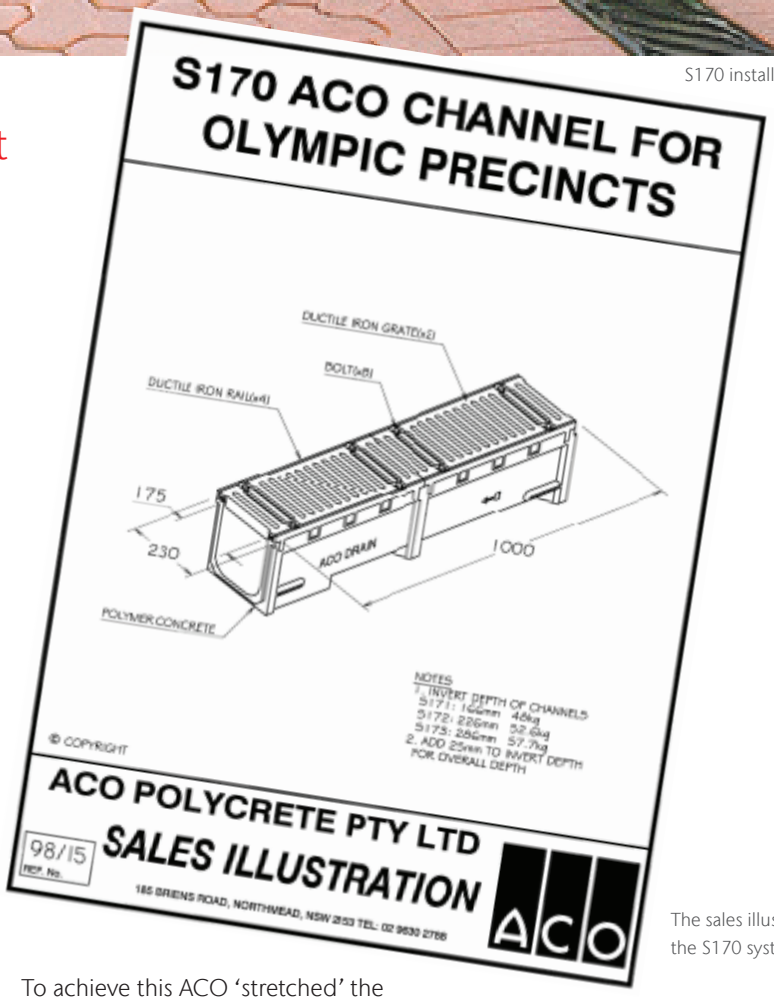
The Critical Component

The building program for the Homebush site meant that the RAC Showground and the Railway Station would be built first to host the Royal Easter show held on site in 1998. The area in front of the Railway Station would eventually be a part of the Public Domain, therefore, products used to build this area would be used all over the site.

As part of the decision-making process, Concrete Constructions were contracted by GHD (the project managers for both the Railway Station and the Public Domain) to build a small test area showing the different pavers, street furniture and channel drains that were under consideration.

Suppliers were asked to donate products without the manufacturer's name on to prevent 'free' advertising.

For ACO, the critical component to get specified was the channel drain system. The size of paver chosen meant that ACO had to produce a 175 mm clear opening 'S' type drain to class D loading.



The sales illustration detailing the S170 system

To achieve this ACO 'stretched' the width of the S100 moulds and offered a three depth stepped system with step connectors and end caps, which became the approved product.

Olympic Park Hotel

Only one hotel was designated to be built on the Homebush Olympic Park site. The Novotel/Mercure hotel is built on the junction of Dawn Fraser Avenue and the Olympic Boulevard in close proximity to both the Olympic Park railway station and Stadium Australia.

ACO access covers being installed in brick paved area alongside the hotel. Olympic Park railway station can be seen in the background

ACO Drain S170 from Fig Grove water feature to the Olympic Park Hotel

The two-part ACO access cover installed above the Type 8 electrical pit outside of the hotel

Type 8 polymer concrete pit used for electrical services in paved area around hotel forecourt

S170 to the right of the water feature at Fig Grove

Water Features

Two major water features were designed into the Homebush site. Fig Grove is located off the Olympic Boulevard directly opposite Stadium Australia.

The Northern Water Feature is located at the bottom of Dawn Fraser Avenue opposite the Superdome.

ACO 900 x 900mm access cover filled with brick coloured concrete, note the PEP22 earth rod box adjoining the cover on the right-hand side to cover a valve

An ACO recessed galvanised steel multipart cover over the pumping system for the Northern Water Feature

A run of ACO Drain S170 was located at the bottom of each of the three sets of steps at the Northern Water Feature

The Public Domain looking from Stadium Australia towards Olympic Park Railway Station

The Public Domain

The Public Domain is the area tying together all the individual venues. The centrepiece is the Olympic Boulevard which is intersected by a number of roads, of which Dawn Fraser Avenue is the most important as this connects Stadium Australia to the Olympic Park Railway Station. With the majority of the Public Domain being brick paved, ACO was able to secure specification for channel drainage throughout the area and, due to paver size, the ACO Drain S170 system was used extensively.

The successful use of the S170 enabled ACO Drain K100S to be specified in the Public Domain Overflow area, which was a late addition, to enable site security to be increased.

Architect:	Hargreaves Associates/GADD
Contractor:	Multiplex/Abigroup
Project Manager:	Gutteridge, Haskins & Davey
Engineering:	Maunsell McIntyre
Hydraulic Engineers:	Denton Corker Marshall
Electrical Engineers:	Barry Webb & Associates

ACO Drain S170 used in the Public Domain leading from the Railway Station to Stadium Australia

S170 used along the sides of Dawn Fraser Avenue to drain the Public Domain

ACO access covers in the Public Domain

The Public Domain

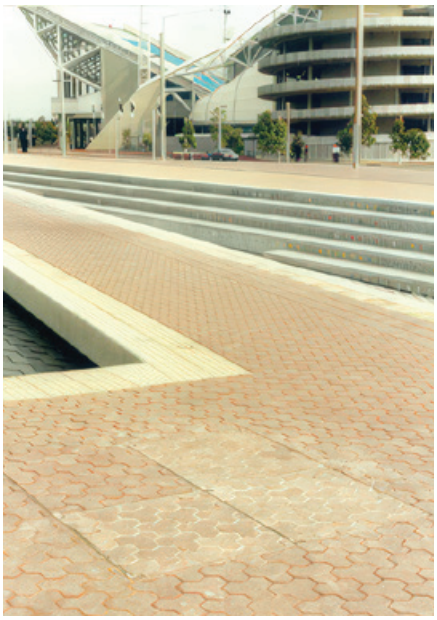
The aesthetic nature of this area also meant that the electrical pits for lighting and communications required a discreet cover.

Both polymer concrete and plastic pits were supplied by ACO with a variety of ACO recessed steel covers. These were then fitted with brick pavers to make them unobtrusive.

Type 5 electrical pit during installation on Overflow area in Public Domain

Recessed galvanised steel ACO access cover filled with concrete located in the Public Domain next to the Overflow area

An ACO recessed galvanised steel multipart cover over the pumping system for the Northern water feature



Multipart ACO access cover set into brick pavers at end of water feature

Stadium Australia under construction

Stadium Australia

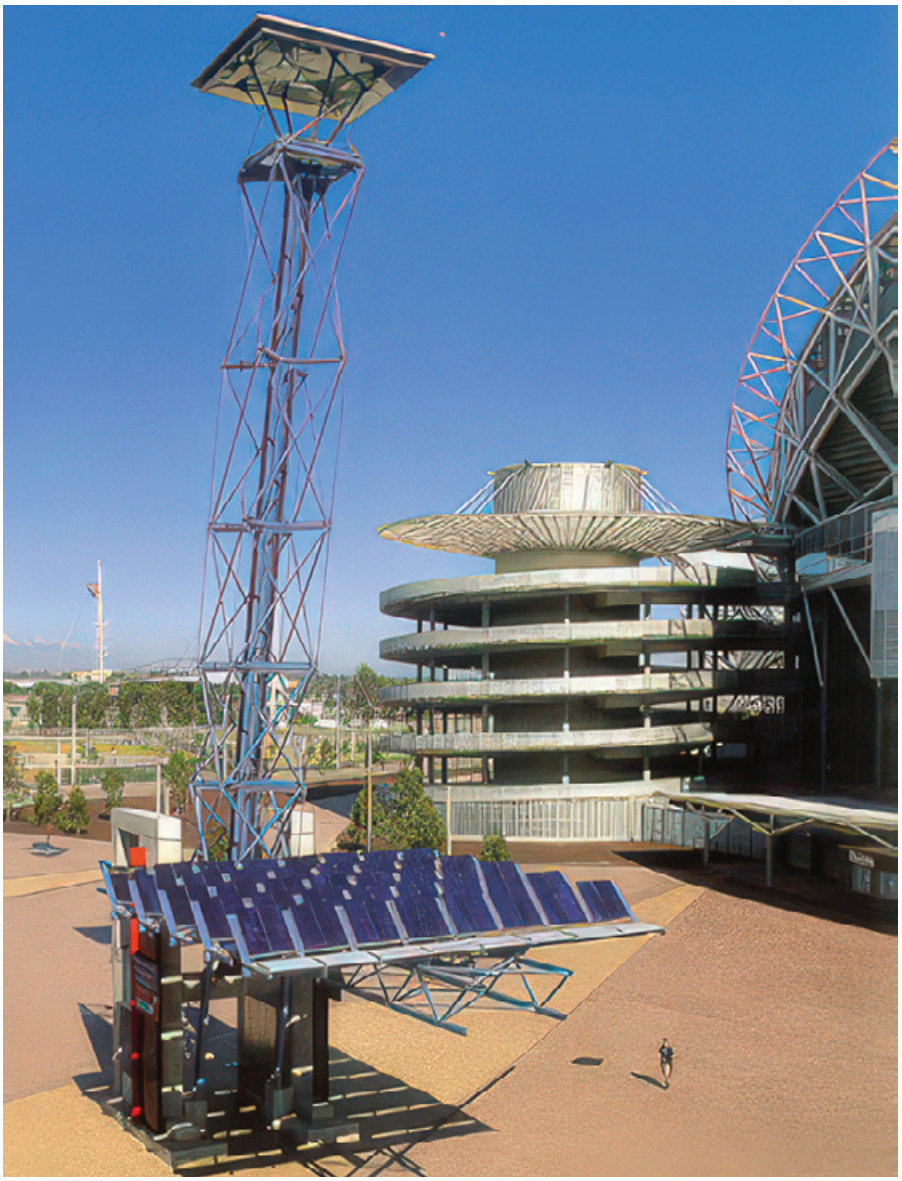
The centrepiece stadium for the games was Stadium Australia, a 110,000-seat stadium which was converted after the games to 80,000 seats.

Stadium Australia hosted all the track and field events for the Olympics and after the games, the stadium became the home of rugby, soccer, concerts and other major field events (the running track was removed).

Architect:	Bligh LBB Sports Architecture
Contractor:	Multiplex
Project Manager:	OCA
Engineering:	Modus Consulting Engineers
Hydraulic Engineers:	Sinclair Knight Merz
Electrical Engineers:	D Rudd and Partners

Stadium under construction

Completed Stadium Australia



One of the light towers outside Stadium Australia, note the S170 in the foreground

Stadium Australia

For ACO, the most critical order of the entire site was the running track drainage. This order would ensure that the tradition started at Munich in 1972 would not be broken.

The track surface was laid by Mondo. The specification set by R. A. Young was sloped N100 channel with Mesh grates on the straights and around the water jump. A slotted polymer concrete cover (replaced ACO Sport System 2000) was put on the channel at the radiused ends which the track would be laid over. As part of the track area, a number of recessed steel access covers were supplied which covered electrical and water connections.

During the construction of the stadium, a number of other orders were secured. These included K100S used on the VIP ramps and in the Athletes tunnel. Galvanised Mesh grates were used on the ramps but stainless steel Heelguard 'S' were used in the tunnel (disability compliant gratings). The Paralympics were held at this location immediately after the Olympic Games.

Main track drain during installation

S170 being installed outside Stadium, note the curved run

Main entrance to Stadium Australia, note curved runs of S170 drain were used at change of brick paver colour

Stadium Australia

An ACO access cover used to cover the valves for the steeplechase pit

N100 between the steeplechase pit and the main track

ACO's Derek Humphries, Sean Kirk, and John Sordo at the official track opening

The Superdome early evening

The Superdome

The A$197 million Superdome was built immediately next to Stadium Australia and shares plaza facilities and the use of the multi-storey car park. The Dome hosted the gymnastics and basketball during the Olympic Games.

As with the other venues, ACO Drain S170 was used to drain outside areas including delineating a brick-paved roadway to the back of the multi-storey car park. In this area, runs of S170 were laid in curves to match the roadway. Unlike other venues, the Superdome used red-coloured bitumen in large areas. This did not impact on ACO's business, as S170 was as usable in this area as the brick paved areas.

Architect:	Cox Richardson Architects & Planners
Contractor:	Abigroup
Project Manager:	OCA
Engineering:	Taylor Thomson Whitting
Hydraulic Engineers:	Sinclair Knight Merz
Electrical Engineers:	Norman Disney Young

The Superdome under construction, note that the dome roof had not been erected

The Superdome

S170 in the plaza leading to the main Superdome entrance

Curved runs of S170 in the area between the Superdome and the multi-storey car park, note the red-coloured bitumen areas either side of the brick paved roadway

S170 on the plaza area between the Public Domain and the Superdome

Curved run of S170 at rear of Superdome

S170 in front of animal pavilions, note show arena in background where baseball would be held

The RAS Showground

The RAS Showground was completed in 1996 and hosted the volleyball, handball, badminton and baseball.

The Showground was used for the first time to host the 1998 Royal Easter Show, and was the least successful project for ACO in terms of product specified and sold. ACO was able to supply product such as K100S into the precincts and show arenas, as well as a variety of stainless steel gratings used in the animal pavilions (which were not used for the Olympics) during a 1999 refurbishment. The showground consists of an exhibition centre, show arena (used to host the Baseball during the Olympics), animal pavilions and landscaped precincts.

ACO supplied ACO Drain S170 and ACO recessed steel access covers in front of the pavilions during the 1999 upgrade.

Aerial view of RAS Showgrounds, note rail station to the front left

The RAS Showground

K100S drainage channel with cast iron Intercept grate in outdoor show arena

K100S drainage channel with ductile iron Intercept grate within RAS precinct

K100S with Intercept grate, note the rubber tiles have been changed from red to black

ACO access covers used in the footpaths around the animal pavilions

The Olympic Cauldron

After the Olympic Games were completed, the Olympic Cauldron, which held the Olympic flame, was relocated from the Olympic Stadium to the overflow area in Cathy Freeman Park.

After the relocation, the Cauldron was converted to a water feature. As part of this conversion, ACO supplied stainless steel wedgewire drainage around the base.

The Olympic Park Railway Station

Olympic Park Railway Station

The Award-winning railway station was one of the first venues to be completed as it was required for the RAS Showgrounds which was opened to host the Royal Easter Show in 1998.

The early finish was also required to enable SOCOG to test the public transport system which was centred around the railway station. The railway station was ACO's primary target as the decision for the drainage used in the area leading up to the railway station would have a great impact on the rest of the site, especially the Public Domain.

Apart from extensive S170 used around the railway station, we were also able to get K100S and Heelguard grates specified and used within the main station entrances and exits. ACO access steel covers were used in the bitumen areas around the back of the railway station.

Architect:	Hassell
Contractor:	Leighton Contractors
Project Manager:	Gutteridge, Haskins & Davey
Engineering:	Tierney & Partners
Hydraulic Engineers:	Tierney & Partners
Electrical Engineers:	Connell Wagner

S170 drain being installed alongside the Railway Station

Completed S170 drain alongside Railway Station

Olympic Park Railway Station

The S170 drain leading up to the Railway Station

K100S with ductile iron Heelguard grates at doorway entrances to the station

K100S and Heelguard grates during installation

Recessed steel access cover above polymer concrete electrical pit in asphalt footpath

Ductile iron Heelguard grate used on Railway Station. For all areas around the station the markings and non slip studs were machined off

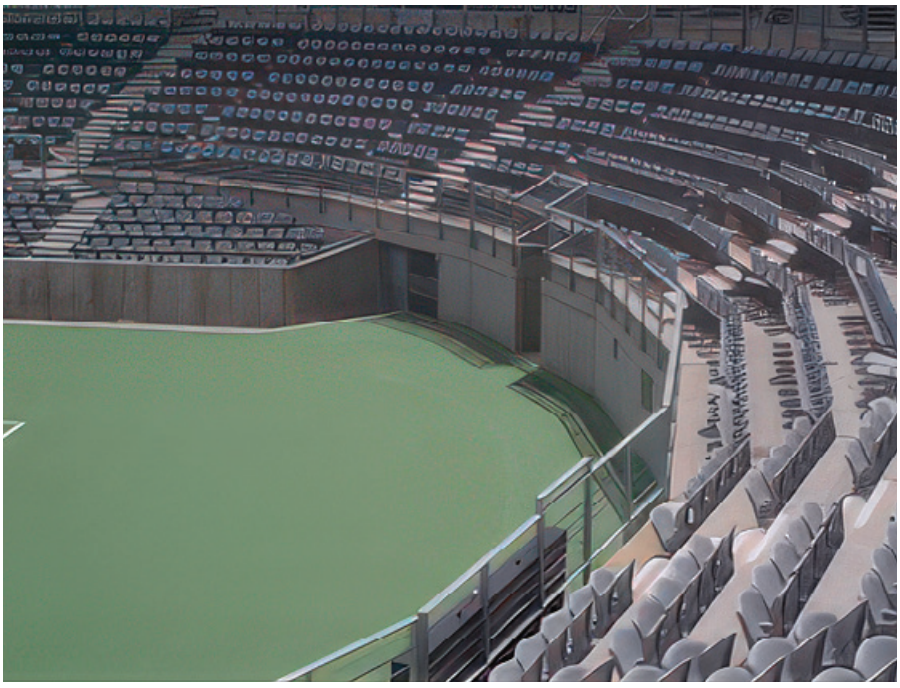
The Centre Court of the Tennis Centre

The Tennis Centre

The last major sporting venue to be designed, The Tennis Centre was used in January 2000 for the NSW Open Tennis Tournament. This meant a very fast construction program which enabled ACO to get specified over 1000 metres of ACO Drain K100S along with our electrical pit products. We supplied a run of CS300 cable ducting across the main road entrance for temporary television cable protection.

The aesthetic nature of the circular 10,000-seat centre court included the use of cast iron Rosette gratings instead of the normal slotted grating. The two show courts, seven match courts and six practice courts also used Rosette gratings in the K100S channels for drainage. All electrical pits on the site were supplied by ACO and manufactured from polymer concrete.

Architect:	Bligh Voller Neild
Contractor:	Abigroup
Project Manager:	NSW Dept. of Public Works
Engineering:	Ove Arup & Partners
Hydraulic Engineers:	Ove Arup & Partners
Electrical Engineers:	Ove Arup & Partners



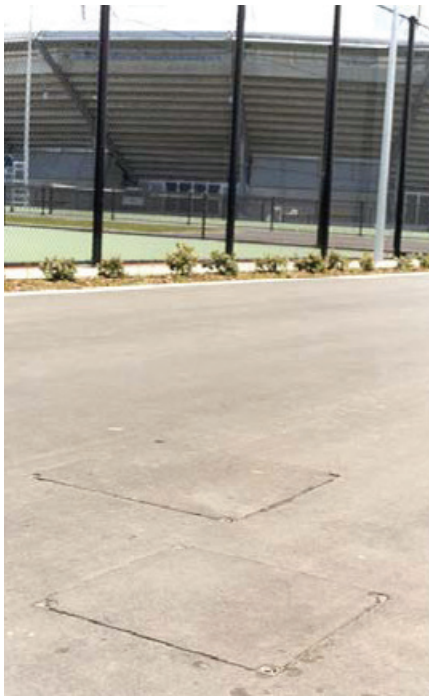
Centre Court - the K100S runs around the edge of the court and the rubber surface is laid over the gratings and the holes cleaned out afterwards

The Tennis Centre

Rosette gratings in K100S channel around perimeter of practice courts

Rosette gratings and K100S in front of scoreboard on outside courts used for preliminary tournament matches

Rosette cast iron grates were used in the channel on all of the courts



Recessed steel access cover above polymer concrete electrical pit in asphalt footpath

ACO brass edged access covers filled with concrete located alongside main driveway, note brass identification plate for pit contents between cover and bitumen driveway

The Hockey centre at night

The Hockey Centre

The Hockey Centre comprises two different stadiums. The older stadium has existed for a number of years and was used as the warm-up facility for the Olympic Tournament. Apart from a small number of electrical pits used in the refurbishment, we had no other major products used in that arena.

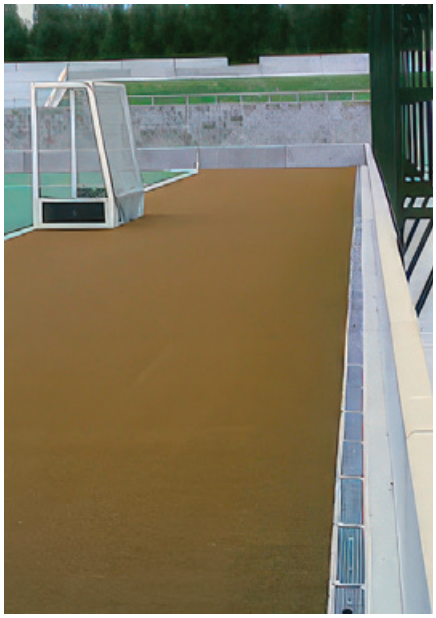
For the Olympic Tournament, a new A$15 million stadium was built which used ACO Drain N100 and Mesh gratings around the Balsam Pacific supplied synthetic turf pitch. All electrical pits and the irrigation pits for the site were supplied by ACO, complete with locked galvanised steel chequer plate covers.

The Hockey Centre (top left) during construction, the pitch top left is the original international venue which will be the warm up pitch during the Olympics

The Hockey Centre

Polymer concrete pit, riser and steel chequer plate cover

Polymer concrete pits and steel chequer plate covers outside the Hockey Centre



The run of N100 and Mesh grate around the perimeter wall

The ACO Drain N100 and Mesh grates in front of the main stand - note the wavy installation !

Site Irrigation

Type 95 Polymer concrete pit used for irrigation pits outside Stadium Australia

Solitary irrigation valves used either Type 52 or PEP 22 earth rod pits with galvanised steel chequer plate covers

Due to the warm climate of Sydney, the entire Homebush site had a large semi-automated water irrigation system. The consultants required all pits to be locked to prevent unauthorised access to the valve systems.

The end result was to use polymer concrete electrical pit risers shortened to 150 mm height in whatever multiples required depending on the depth of the pipework. The modular nature of the risers and ease of cutting for pipe entries provided an ideal solution. The locking of the covers was easily solved by using ACO's cover locking system.

Polymer concrete pits with steel chequer plate covers outside Homebush Entertainment Centre

Car Parks & Bus Stops

The main car park area to the west of the site is on a slight slope. Runs of S170 drain surface water away from the bus loading areas

The Homebush site was designed primarily to be serviced by public transport. The major car parks were some distance from the venues and people were transported by bus to the various locations.

The amenity blocks were built to give shelter and offer toilet facilities and are located at various points around the site.

Around the rear of the main car park ticket office and amenities are runs of ACO Drain K100S and Slotted galvanised steel grate and polymer concrete sumps with galvanised grates

At various points around the site located by car parks or bus stops are amenity blocks. In front of the block is a single ACO access cover on an electrical pit and a four part unit covering the sewer pumping system

The S170 channel on Australia Avenue (RAS showgrounds in background)

Olympic Circuit Roadways and Landscaping

Although the decision to use ACO Drain S170 was driven by the Olympic Railway Station Project, the first delivery was sent to Australia Avenue outside the RAS Showgrounds as part of the Roads and Landscaping project.

With the exception of the Public Domain and individual sites, the Roads and Landscaping project tied the whole site together both from a transport perspective and aesthetically. As part of this package, street lighting, walkways and pedestrian bridges were all built.

Architect:	Hargreaves/Anchor Mortlock & Wooley
Contractor:	Abigroup/Concrete Constructions/Lahey
Project Manager:	OCA/GHD/NSW Dept. of Public Works
Engineering:	DCM/Maunsell McIntyre
Hydraulic Engineers:	Maunsell McIntyre/Acor
Electrical Engineers:	Barry Webb & Ass./Enginuity/Energy Australia

Olympic Circuit Roadways and Landscaping

The first run of S170 channel on the Olympic site was on Australia Avenue

All light pole jointing boxes were supplied by ACO and covered with ACO access covers

On the wheelchair ramp off Australia Avenue, ACO Drain K100S and Heelguard 'S' stainless steel gratings were used on the 6 runs

A late addition to the site was a bus underpass built at the bottom of Dawn Fraser Avenue, a further 200 metres of S170 was used here

ACO Products used (by Olympic Sporting Venue)

Sport	Location	Details & ACO Involvement	Quantity
Athletics	Aqualina (Bankstown) Athletics Track	ACO Sport System 4000 & Galvanised Mesh Grates/ Polymer Concrete lid	400 metres
Athletics	Campbelltown Athletics Track	ACO Sport System 4000 & Galvanised Mesh Grates/ Polymer Concrete lid	400 metres
Athletics	Sydney International Athletics Centre/ Warm-up Track Glendale	ACO Sport System 4000 & Galvanised Mesh Grates/ Polymer Concrete lid	400 metres
Athletics	Hunter Region Athletics Track	ACO Sport System 4000 & Galvanised Mesh Grates/ Polymer Concrete lid	400 metres
Athletics	Mingara Athletics Track	ACO Sport System 4000 & Galvanised Mesh Grates/ Polymer Concrete lid	400 metres
Athletics	Queensland University, Brisbane, QLD	ACO Sport System 4000 & Slotted Ductile Iron Grates	400 metres
Athletics	Griffiths University, Gold Coast, QLD	ACO Sport System 4000 & Galvanised Mesh Grates/ Polymer Concrete lid	400 metres
Athletics	St Josephs College, Nudgee, QLD	ACO Sport System 4000 & Galvanised Mesh Grates/ Polymer Concrete lid	400 metres
Athletics	Sunshine Coast University, QLD	ACO Sport System 4000 & Galvanised Mesh Grates/ Polymer Concrete lid	400 metres
Athletics	Bendigo Athletics Track, VIC	ACO Sport System 4000 & Galvanised Mesh Grates/ Polymer Concrete lid	400 metres
Athletics	Bendigo Athletics Track, VIC	Polymer Concrete Electrical Pits & Polymer Concrete lid	25 pits
Athletics	Ballarat Athletics Track, VIC	ACO Sport System 4000 & Galvanised Mesh Grates/ Polymer Concrete lid	400 metres
Athletics	Ballarat Athletics Track, VIC	Polymer Concrete Electrical Pits & Polymer Concrete lid	25 pits
Athletics	Melbourne Olympic Park, VIC	ACO Sport System 4000 & Polymer Concrete lid	400 metres
Athletics	Mile End Stadium, SA	ACO Sport System 4000 & Galvanised Mesh Grates/ Polymer Concrete lid	400 metres
Athletics	Stadium Australia Track	ACO Sport System 4000 & Galvanised Mesh Grates/ Polymer Concrete lid	400 metres
Athletics	Stadium Australia VIP Ramps	ACO Drain K100S & Galvanised Grates Mesh	38 metres
Athletics	Stadium Australia Athletics Tunnel	ACO Drain K1l00S & Stainless Steel Heelguard Grates	70 metres
Athletics	Bankstown Running Track	ACO Sport System 4000 & Galvanised slotted gates	400 metres
Archery	Sydney International Archery Centre	ACO Drain K200S & Slotted Ductile Iron Grates	30 metres
Archery	Sydney International Archery Centre	Polymer Concrete Electrical Pits & Access Covers	15 Pits
Baseball & Softball	Aqualina Athletics Centre	ACO Drain K100S & Rosette Grates	140 metres
Beach Volleyball	Bondi Beach	Polymer Concrete Electrical Pits, Polymer Concrete Covers & Galvanised Covers	16 Pits
Canoeing	White Water Rafting Centre, Penrith	Polymer Concrete Electrical Pits & Galvanised Covers	10 Pits
Cycling	Warm-up Track, Merrylands	ACO Drain K100S & Slotted Galvanised Grates	170 metres
Equestrian	Sydney Olympic Equestrian Centre	Polymer Concrete Electrical Pits & Access Covers	140 Pits
Equestrian	Sydney Olympic Equestrian Centre	Polymer Concrete Drainage Sumps and Galvanised Grates	25 Sumps
Equestrian	Sydney Olympic Equestrian Centre	ACO Drain S300	30 metres
Equestrian	Centennial Park Lands	Polymer Concrete Electrical Pits & ACO Access Covers	30 Pits
Equestrian	Centennial Park Lands	ACO Drain K100S & Heelguard Composite Grates	355 metres
Hockey	Olympic Hockey Centre	ACO Sport System 4000 & Galvanised slotted grates	330 metres
Hockey	Olympic Hockey Centre	Polymer Concrete Electrical Pits & Galvanised Covers	37 Pits
Hockey	Olympic Hockey Centre	Polymer Concrete Drainage Sumps & Galvanised Gratings	20 Sumps
Hockey	Olympic Hockey Centre	Polymer Concrete Electrical Pits & Galvanised Covers	12 Pits
Rowing	Regatta Centre - Penrith Lakes	Plastic & Polymer Concrete Electrical Pits, Access Covers	30 Pits
Shooting	Sydney Shooting Centre	Polymer Concrete Electrical Pits & ACO Access Covers	30 Pits
Swimming	Aquatic Centre	ACO Drain KS100S & Heelguard Composite Grates	4 metres
Swimming	Aquatic Centre	Polymer Concrete Electrical Pits & Polymer Concrete Covers	12 Pits
Swimming	Ryde Aquatic Centre	ACO Drain KS100S & Heelguard Stainless Steel Grates	38 metres
Tennis	Sydney Olympic Tennis Centre	ACO Drain K100S Rosette & Stainless Steel Grates	1300 metres
Tennis	Sydney Olympic Tennis Centre	Polymer Concrete Electrical Pits & Galvanised Covers, Access Covers	60 Pits
Tennis	Sydney Olympic Tennis Centre	CS300 Cable Ducting	10 metres
Weightlifting	Convention Centre - Darling Harbour	Stainless Steel Grates & Channel	60 metres
Yachting	Rushcutters Bay Shore Base	Polymer Concrete Electrical Pits and Galvanised Covers	28 Pits
Yachting	Rushcutters Bay Shore Base	Polymer Concrete Drainage Sumps and Galvanised Grates	12 Sumps

ACO Products used by Other Olympic Venue

Type	Location	Details & ACO Involvement	Quantity
Electricity	Electrical Supply	Polymer Concrete Electrical Pits, Plastic Electrical Pits & ACO Access Covers ACO Drain	200 Pits
Electricity	Homebush Electrical Sub station	K200S & Ductile Iron Grates	30 metres
Hotel	Olympic Park Novotel Hotel	Polymer Concrete Electrical Pits & ACO Access Covers	8 Pits
Irrigation	Olympic Park Landscape	Polymer Concrete Electrical Pits, Galvanised Covers & ACO Access Covers	400 Pits
Irrigation	Millennium Irrigation	ACO Access Covers	80 Units
Public Domain	Olympic Boulevard	ACO Drain S170	700 metres
Public Domain	Stadium Australia Plaza	ACO Drain S170	1385 metres
Public Domain	Stadium Australia	Polymer Concrete & Plastic Electrical Pits, Galvanised Covers & Access Covers	110 Pits
Public Domain	Western Plaza Area	ACO Drain S170	140 metres
Public Domain	Station Plaza	ACO Drain S170	325 metres
Public Domain	Fig Grove	ACO Drain S170	500 metres
Public Domain	Northern Water Features	ACO Drain S170	140 metres
Public Domain	Superdome Urban forest	ACO Drain S170	325 metres
Public Domain	Superdome Plaza	ACO Drain S170	990 metres
Public Domain	Overflow	ACO Drain K100S & Heelguard Grates	60 metres
Public Domain	Outdoor Showing	ACO Drain K100S & Intercept Grates	150 metres
RAS Showground	Pavilion	ACO Access Covers (Brass Edge)	32 Units
RAS Showground	Pavilion	ACO Drain K200S & Stainless Steel Grates	20metres
RAS Showground	Carnival & Primo	Polymer Concrete Electrical Pits & ACO Access Covers	60 Pits
RAS Showground	Horse & Cattle Pavilion	Polymer Concrete Electrical Pits, Risers & ACO Access Covers (Brass Edge)	30 Pits
RAS Showground	Infrastructure	Polymer Concrete Electrical Pits, ACO Access Covers	40 Pits
RAS Showground	Irrigation Avenue	Polymer Concrete Electrical Pits, Galvanised Covers & ACO Access Covers	30 Pits
Railway	Olympic Park Station	ACO Drain K100S & Heelguard Grates, ACO Drain S170, ACO Drain S300	300 metres
Railway	Olympic Park Station	Polymer concrete Electrical Pits & Stainless Steel ACO Access Covers	18 Pits
Railway	Olympic Park Station Corridor	Polymer Concrete Cable Ducting	280 metres
Railway	Olympic Park Station Corridor	Access Covers	15 Units
Railway	Olympic Circuit Footpaths	Polymer Concrete Electrical Pits & ACO Access Covers	15 Pits
Roads	Bus Interchange, Main Car Park	ACO Drain S170, ACO Drain K100S & Slotted Steel gates & Polymer Concrete Sumps	70 metres
Walkways	Footpaths around Site	ACO Drain K100S & Type 508 Heelguard grates	10 metres
Walkways	Footpaths around Site	Polymer Concrete Electrical Pits & ACO Access Covers	42 Pits

ACO. we care for water

ACO Pty Ltd.

134-140 Old Bathurst Road
Emu Plains NSW 2750
Australia

info@acoaus.com.au
www.acoaus.com.au