

e n g i n u i t y

BEKKER

Specialist design for foundations:

- City Council **Smartpoles**
- Cantilever **Light Poles**
- **Pylon Signs**
- **Mega Screens** at ATC Racecourse

Smartpoles: Solution to Sydney City Street lighting including traffic signals, street signage and promotional banners

(Ford Civil Contracting & JDL Constructions & Sydney City Council)

The engineering design for installing multi-functional smartpoles for the Sydney city council in the CBD requires concrete pier and/or pad footings.

These smartpole installations are designed around established infrastructure underground - utilising deep piling and piercing in consideration of existing conduits.

These slender poles meet the evolving needs of the city's urban landscape environments.



Light Poles: Foundations for sports venues and carparks

When designing the foundations for poles all ground conditions will be encountered such as

- land fills
- poor soils
- contaminated soils methane
- gas emission sites acid
- sulphate soil locations

These all require deep piers or piles to bedrock below.



Lighting poles from 4m - 38m are installed around ovals in the Sydney area - Specialist 50m high light towers for the Drummoyne Sports Oval.

These foundations are designed for specialist lighting companies **Floodlight Australia** and **Smada Electrical**.

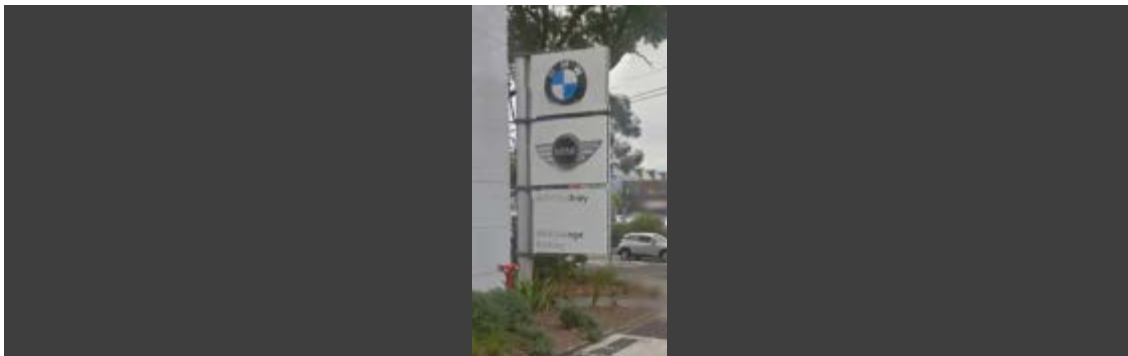
Signs and Mega Screens: Solutions for urban advertising structures

Many engineering aspects need be considered when erecting permanent outdoor signs, screens & billboards - from loads, wind factors, ground conditions to name a few.

Look around your urban built environment to see some structures designed by BEDB.



The Royal Randwick Racecourse now has the largest LED outdoor screen in the Southern Hemisphere. We designed the footings to cope with adverse conditions of poor soil conditions and high wind loadings.



BMW Alexandria requested a design for a pylon sign for their logo at a new dealership.

Copyright © 2016 Bekker Engineering Design Buro Pty Ltd. Certified Practising Engineers. All rights reserved.

For more information on any of our services go to www.paulbekkerengineering.com.au
bekker@spin.net.au

(02)9960 6944 - 0411 570 948