The Drive Pavement Rehabilitation
The Drive Pavement Rehabilitation

2015
360m

2016
1036m
Why Concrete?

Demand

Benefits

Drawbacks
Design Pavement Profile
325mm

- 40mm Wearing Course
- 135mm Structural Asphalt
- 150mm 20MPa Concrete
- CBR 1.5 Clay Subgrade
The Drive Pavement Design

- Shallow pavement
- Contaminated subgrade
- Weak subgrade
- Shallow services
The Drive Pavement Construction

**Project Staging**

- 4-month programme
- 13 sections in 13 weeks
- 1 week per section
  - Excavation (2 days)
  - Concrete (1 day)
  - 36-hour minimum curing period
  - Structural Asphalt (1 day)
- Wearing course paved in 3 shifts
- One-way traffic detour
- 10 side street closures
The Drive Pavement Construction

Day 1-2: Milling, Excavation and Prep
The Drive Pavement Construction

Day 3-4: Concrete Pumping, 36-hour Curing
The Drive Pavement Construction

Day 5: Structural Asphalt
The Drive Pavement Construction

Snag List and Final Surfacing
Constraints and Challenges

Stakeholders

- Dense residential population
- Regular update notices
- 1500 letterboxes in proximity to site
- 5-day advance notices of access restrictions
  - Side street closures
  - Cul-de-sac access
  - Driveway access
- Primary school site visits
- Door-knocking to residents
## Constraints and Challenges

### Construction and Level Control

- **Enabling works**
  - Subsoil drainage
  - New kerb and channel
- **New carriageway profile**
- **Strict pavement depth tolerances**
- **Quality monitoring**
  - Inspection and testing plans
  - Permits
  - QA check sheets
  - Survey control
  - Testing
Questions?