



Client

Ward Civil &
Environmental Engineering

Installation

January 2024

Location

Eastern Suburbs
Sydney

Product

Iplex BlackMax
DN225 - DN600

Efficient and Safe Stormwater Management with BlackMax

This project involved a major upgrade to deliver improved facilities at a project in Sydney's Eastern Suburbs. Ward was engaged to undertake the works, which included the installation of stormwater management systems.

Ward is a leading, independent, civil and environmental engineering contractor with a history of over 50 years. Ward's team of skilled engineers work closely with clients and are committed to safety in their delivery of high-quality projects.

Challenge

Long lead times in sourcing traditional stormwater pipes to be installed beneath the roads as part of the new entry precinct meant that an alternative solution was sought.

Solution

BlackMax pipes and fittings were supplied in various sizes ranging from DN225 to DN600. These pipes offered several benefits that made them an ideal choice for this project:

- **Extensive Range of Fittings:** The availability of a wide range of fittings allowed for quick and easy installation according to the plans.
- **Lightweight and Durable:** The lightweight and durable nature of BlackMax pipes reduced costs as Ward Civil performed the stormwater installation.
- **Compliance with Standards:** To meet AS/NZS 2566.1 Buried flexible pipelines Part 1 Structural design standards, the BlackMax pipes were installed under the road with a typical minimum cover of 0.6m. The typical traffic loading in the precinct will include cars, buses, and heavy vehicles.

Implementation

Crews found that using 'come-alongs' increased the installation rate of the pipes and the lightweight nature contributed to a safer job site.

Results

The installation of the BlackMax stormwater pipes and fittings demonstrated advantages:

- **Cost Efficiency:** By self-performing the installation, Ward Civil was able to reduce overall project costs.
- **Safety:** The lightweight nature of the pipes contributed to a safer work environment.
- **Performance:** The pipes passed vacuum testing and are expected to have a service life of over 100 year*

Ward expressed satisfaction with the performance of BlackMax pipes and plans to use them as a preferred product in future projects.

Conclusion

The project showcases the effectiveness of using BlackMax pipes for stormwater management systems. The combination of cost efficiency, safety, ease of installation, and long-term performance makes BlackMax an excellent choice for similar projects in the future.