



General:

The 3.6km Lane Cove Tunnel involves a twin two-lane tunnel, with three lanes provided in long sections. The tunnel will connect the Gore Hill Freeway with the M2, resulting in quicker journey times between the city and Sydney's north-west.

Project: LANE COVE TUNNEL – GORE HILL FWY SYDNEY

Client: LANE COVE TUNNEL COMPANY PTY LTD

Principal Contractor: Thies John Holland JV

Scope of Works by Avopiling

- Various Retaining wall piles and Foundation Piles for Entry and Exit plus Bridge structures
- Over 2,000 piles with various diameter from 450mm to 1200mm
- Service shafts and ventilations shafts 1500mm dia to 2500mm dia. exceeding depths over 30m drilled into high strength shale and sandstone
- Secant Pile wall with soft(600mm dia) and hard 900mm dia piles installed
- Specially manufactured CFA tools by Avopiling penetrated over 12m rock
- Drilling was performed through uncontrolled fill cutting through various obstructions



Works at middle of Gore Hill FWY

Contact AVOPILING Pty Ltd

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Retaining Wall 13 – Gore Hill Freeway

- Piling works for Retaining wall 13 is the largest and most challenging of all retaining walls with limited access, and close proximity to heavy trafficked freeway and to the residential buildings.
- Existing noise wall panels could be disturbed only temporarily subject to noise level to the residents maintained within limits.
- The pile wall was designed to be cantilevered condition to retain up to 10m height as no anchors could be installed. Piles were installed with post tensioned tendons



Retaining Wall – 13- contiguous Piles 900mm & 1200mm dia.



Service shaft 2500mm dia. x 30m deep drilled through high strength shale and sandstone; R 930 rig was utilized and Drilling completed in 2days;

<u>Section</u>	<u>Pile Dia (mm)</u>	<u>Pile Nos</u>
Rw03	450	140
Rw04/ 07	600-1.200	259
Rw13	600-1.200	471
CC02	600-900	840
CC03	600-1.200	235
CC04	750	187
Vent Shaft	750	37

<i>SUMMARY OF WORK VOLUME</i>	
Total Length	23,400 M
Total Concrete	14,000 M3
Total Reo	2,350 Ton

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