



ROZELLE INTERCHANGE – DIVE STRUCTURE AND CUT AND COVER TUNNEL INSTALLATION OF PERMANENT ANCHORS AND SHOTCRETE WALLS

PROJECT OVERVIEW

WestConnex M4 (the New M4 Tunnels and the Widened M4), includes 5.5km tunnels and around 7.5km of surface roads. The WestConnex M4 links the M4 at Parramatta to the west, and Wattle Street and Parramatta Road at Haberfield to the east. The WestConnex M4 will also connect to the M4-M5 Link Tunnels and Rozelle Interchange.

SOLUTION

Our scope involved 9,500m² of shotcrete walls including 4,700m of permanent soil nails/rock bolts all delivered to the Specification RMS R64 and 5,500m of permanent DCP thread bar anchor (40mm in diameter) complying to B114 specifications. Our contract includes full Quality Assurance and soil nail testing which, along with meshing, drainage, shotcreting, fabrication of permanent nails, drilling, installation and grouting, are all undertaken by our highly trained and professional in-house sites teams with our specialist drill rigs, grout stations and shotcrete rig. This project was managed by Keshab SUBEDI

CLIENT	CPB Samsung John Holland JV
LOCATION	Sydney, NSW
AREA	4,500m ²
VALUE	\$3.5M
COMPLETION	2018
DESIGN	Perm Anchors Soil Nails Shotcrete



SYDNEY METRO TUNNEL AND EXCAVATION WORKS SHOTCRETE & ANCHOR INSTALLTION

PROJECT OVERVIEW

Sydney Metro City & Southwest is Stage 2 of Australia's largest public transport project that will extend the metro rail from Sydney's booming northwest region to Bankstown in the southwest. With a new crossing under Sydney Harbour, the 15.5-kilometre twin railway tunnels will run from Chatswood, through the CBD and then to Sydenham. The project includes building complex underground structures for six new stations in Crows Nest, Victoria Cross, Barangaroo, Martin Place, Pitt Street and Waterloo.

SOLUTION

Our scope involved the installation of semi-permanent anchors to a modified project specific B114 specification and the installation of steel reinforcement and application of shotcrete across many of the new station boxes, dive supports and shafts throughout the project. RIX experienced team of supervisors, engineers, anchoring and shotcrete crews have been working, for the last 3 years with the JV in sites limited by access/staging thus requiring careful programming and sequencing with the client to ensure good productivity is achieved to the work program managed by Keshab.

CLIENT	JOHN HOLLAND CPB GHHELLA JV
LOCATION	Sydney, NSW
AREA	Various
VALUE	\$20.5M+
COMPLETION	2020
DESIGN	Semi Perm Anchors Rock Anchors Steel-fixing Shotcrete