Part 1 - Design Drawings
From Gungahlin
To the City Centre

Canberra Metro
Canberra's Light Rail
Gungahlin to Civic

Southbound Longitudinal Profile

Scale 1:500

© Arup

Created using CADplot http://www.oasys-software.com/cadplot/
From Gungahlin To the City Centre

Canberra Metro
Canberra's Light Rail
Gungahlin to Civic Rail

Job Title: Client
Discipline: Issue
Job No: Drawing No
Drawing Status: Work in Progress
Rail - Base Case Alignment
Plan and Profile
Sheet 16 of 34

Created using CADplot http://www.oasys-software.com/cadplot/
From Gungahlin
To the City Centre

PLAN
SCALE 1:500

NORTHUMBER AVENUE

VERTICAL ALIGNMENT

PROPOSED ELEVATIONS

EXISTING ELEVATIONS

HORIZONTAL ALIGN

SOUTHBOUND LONGITUDINAL PROFILE

SCALE 1:1000 VER 1:300

Canberra Metro
Canberra's Light Rail
Gungahlin to Civic

Rail - Base Case Alignment
Plan and Profile
Sheet 26 of 34
From Gungahlin To the City Centre

Canberra Metro
Canberra's Light Rail
Gungahlin to Civic

SCALE 1:500

Sheet 27 of 34

NOTES

1. For General Legend Refer WRI 1000

Rail - Base Case Alignment
Plan and Profile
Sheet 27 of 34
NOT TO SCALE

Rail - Rail Systems
Overhead Wiring
Sectioning Diagram 750V DC

Canberra Metro
Canberra's Light Rail
Gungahlin to Civic

Notes:
1. CAMBRIDGE TIPS TIP IS A CONTINUOUS LOCATION.
2. SUBJECT TO RESULTS OF TRACTION POWER MODEL. A MAY NOT BE REQUIRED.
3. ADDITIONAL TRC TO BE INSTALLED NOT SHOWN FOR CLARITY.
NOTES
1. 35kV DC HELPER CABLE THROUGHOUT ROUTE.
2. FOR LEGEND REFER TO PHS IN CLR-RRS-DRG-0202.
3. DEPOT SUBSTATION AND BUS SECTION TO BE INTERLOCKED WITH A SWITCH IN THE NEGATIVES NEVER closer the DEPOT YARD AND THE MAIN LINES.

To Park Line
FOR CONSTRUCTION REFER TO PHS CLR-RRS-DRG-0202

To Years Street TPS

MANTENANCE SHED

OUTDOOR SWITCING FRAME

VASH RIGHT

STABLING YARD

NOT TO SCALE

Work in Progress

C: \projectwise \clr \Concept \CLR-RRS-DRG-0202.dwg 12 Jun 2014 17:01:17
Diagram showing a schematic of a railway system. The legend explains various symbols used in the diagram, such as circuit breakers, rail connections, and transformers. Notations on the diagram include:

- Down Track
- Up Track
- Transformer Transformer
- DC Switchgear

Key notes:

1. Transformer sitting footprint approximately on the ground.

Additional information includes:

- Issue Date: 12/06/14
- Client: Canberra Metro
- Discipline: Rail - Rail Systems
- Traction Power
- Typical 750V DC Substation System

The diagram is created using CADplot, as indicated by the credit to the software company.
NOTES:
1. NO DIMENSIONS TO BE OBTAINED BY SCALING FROM THE DRAWING.
2. ALL DIMENSIONS ARE NECESSITATED IN MILLIMETERS.
3. SPAN WIRE ARRANGEMENTS CAN BE INSTALLED IN MULTIPLE AREAS, OR WHERE CLEARANCE CONSTRAINTS OR OTHER CONSTRAINTS SUCH AS PLATFORMS, AVERAGES, DRAINS, ETC. PREVENT THE USE OF OTHER STRUCTURE TYPES.
4. IN THE INSTALLATION OF POLE SIZES THE FOLLOWING PARAMETERS MUST BE OBSERVED:
   a. LARGE CABLES USED WITH A CROSS-SECTIONAL AREA OF 50 SQ MM OR MORE OF 1000 SQ MM.
   b. SMALL CABLES USED WITH A CROSS-SECTIIONAL AREA OF 50 SQ MM OR LESS.
5. FOR RAILWAY DETAILS REFER TO DRAWING No. CLR-RRS-DRG-0303.
6. LENGTH GREATER THAN 30 TYPICALLY. IF LESS THAN 30 POLE MUST BE DESIGNED AS FEASIBLE.

INDICATIVE POLE CONNECTION DETAILS FOR SPAN WIRE ARRANGEMENT

<table>
<thead>
<tr>
<th>BOTTOM POLE SIZE</th>
<th>TOP POLE SIZE</th>
<th>BASE PLATE SIZE</th>
<th>POLE SIZE</th>
<th>HINGING DOWN BOLT</th>
</tr>
</thead>
<tbody>
<tr>
<td>395.9 x 92 ENG</td>
<td>373.1 x 9.3 ENG</td>
<td>TEC</td>
<td>TEC</td>
<td>TEC</td>
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</table>
TYPICAL ANCHOR POLE
INSTALLED OVER EXISTING UNDERGROUND SERVICES
WITH RESTRICTED CLEARANCE

SIDES

INDICATIVE POLE CONNECTION DETAILS FOR SELF SUPPORTING ANCHOR STRUCTURE

<table>
<thead>
<tr>
<th>BOTTOM POLE SIZE</th>
<th>TOP POLE SIZE</th>
<th>BASE PLATE SIZE</th>
<th>BOLT hole</th>
<th>HANGING DOWN BOLT</th>
</tr>
</thead>
<tbody>
<tr>
<td>323 x 42.7 cm</td>
<td>273 x 40.6 cm</td>
<td>Tec</td>
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</tbody>
</table>

NOTES
1. NO DIMENSIONS TO BE OBTAINED BY SCALE READ GRD FROM THE DRAWING
2. ALL DIMENSIONS IN MM UNLESS NOTED OTHERWISE
3. FOR MOUNTING DETAILS REFER TO DRAWINGS CLR-RRS-DRG-0304
4. FOR LOCATIONS WHERE EXISTING UNDERGROUND SERVICES ARE CLOSE TO THE SURFACE, PRODUCED ARRANGEMENTS SHALL BE CONSIDERED IN ADDITION TO THE OPTIONS FOR SERVICES RELOCATION

SCALE 1:50