

Lessons learned from one of New Zealand's most challenging civil engineering projects: rebuilding the earthquake damaged pipes, roads, bridges and retaining walls in the city of Christchurch 2011 - 2016.

DG007 Technical Leads Guideline

Story: Technical Groups and Technical Newsletters

Theme: Design

A design guideline which defined the role of the Technical Leads within SCIRT technical forums.

This document has been provided as an example of a tool that might be useful for other organisations undertaking complex disaster recovery or infrastructure rebuild programmes.

For more information about this document, visit www.scirtlearninglegacy.org.nz



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DESIGNERS GUIDELINE

Number : 007
Design Group: GEN
Revision : 1
Original: 14/06/2012
Revision: 31/07/2013

- Wastewater
- Stormwater
- Geotechnical
- Structures
- Roading
- Water Reticulation

Subject: Technical Leads

Original: Design Management

Approved: Stephen Wright

Updated by : Paula Lock

Keywords
Technical Advisors, Detailed Design

1. Purpose of guideline

To define the role of the Technical Leads.

2. Background

The Technical Leads are representatives of the Clients organisations and are members of the design teams. Whilst it is expected that they undertake design roles they also act as Technical Advisors to all design teams during the development of the Detailed Designs. Input may also be requested/required during Concept Designs.

3. Recommendation

The Technical Lead role includes:

- Guidance and mentoring of SCIRT design teams
- Checking compliance with minimum standards and agreed concept
- Provide comments for the Detailed Design Report
- Noting obvious errors
- Identifying areas where designs could lead to future problems
- Providing a level of consistency across the four design teams
- Liaising and advising Asset Owner Representatives
- Advocacy and liaison with Council (within SCIRT and Council)
- Promotion of innovations and cost saving opportunities
- Providing feedback to the Designers and the Technical Forums on design issues, including any recurring errors/omissions, areas for improvement, and sharing of lessons learned
- Providing input into SCIRT standard drawing and details on behalf of Council

The Technical Advisor role does not include:

- Imposing personal views or preferences
- A detailed design check or full drawing check – design and drawing verification is the responsibility of the Designer
- Giving approval of the designs

Should the Technical Lead identify betterment opportunities, the Technical Lead is to liaise with the Asset Owner Representative for agreement in principle, and the preparation of a Scope and Standards Paper.