

Infrastructure construction monitoring: 3 steps to success

Unsure on QLDC's expectations for monitoring and certifying infrastructure construction in our region? Here's our 3 step guide to how we monitor your construction project from design phase to completion.

STEP 1: DESIGN



You need a detailed engineering design accepted by QLDC. Also, before we can have confidence in the supervision and certification of your construction, we need a design certificate for each design area (like roads, drainage, etc.). This needs to be in the format of [Schedule 1A from NZS 4404:2010](#), which should be provided by a suitably qualified and experienced person (SQEP) during the Engineering Acceptance stage. The design certificate will tie the supervision and certification back to the specific design discipline. Each certificate should list the documents it applies to, and we will agree with the certificate issuer on the limit of professional indemnity.

Please note: All walls within the road reserve (and some bridges and culverts) shall be designed by a Chartered Professional Engineer in accordance with the NZ Building Code and a building consent obtained where required.

STEP 2: SUPERVISION BY DEVELOPER



We will agree with the developer (or the developer's professional advisor or IQP, if appointed) on the level of supervision required for construction depending on the size and complexity of the project, as well as the experience and skill of the person overseeing the construction. For most routine infrastructure works, we expect the minimum level of supervision to be CM3, which you can find in the [Construction Monitoring Services guidelines](#) from Engineering New Zealand (EngNZ) and the Association of Consulting Engineers New Zealand (ACE New Zealand).

STEP 3: COMPLETION



It's best practice that the same consultant or designer who worked on the design also signs off on the completion certificate (Schedule 1C). We understand that things can change during a project, and if a new consultant takes over, the consent holder must let us know and confirm that the new firm is taking on the liability.

HOT TIP: A completed Inspection and Test Plan (ITP) showing the key hold points during construction and who signed off (Council, professional advisor, IQP, etc.) is considered good accompanying evidence of Construction Monitoring, along with the completion certificate.