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3.0 CONSTRUCTION PROCEDURES

3.1 GENERAL

This chapter is intended to provide guidance to Developers and Consultants in respect of a number of key Council requirements, from the construction phase to the sealing of survey plans (for subdivisions) or the issuance of a certificate of classification (for other developments).

3.2 CONTRIBUTIONS

Occasionally, Developers provide monetary contributions for specific works that cannot be constructed in isolation at the time of the subdivision or development and these funds are paid into Trust. In general, Council will not accept monetary contributions in lieu of undertaking the works unless there are exceptional circumstances. Further the approval of Council's Delegate is required.

3.3 BONDING OF UNCOMPLETED WORKS

Bonding of uncompleted works by a Developer enables Council to permit early signing and sealing of survey plan. The following criteria must be met at the time of lodging the request for sealing of the survey plan to the Engineering Officer Development & Regulatory Services:

1. All bulk earthworks are completed. Bulk earthworks include excavation and filling of the road formations and allotments.
2. Council has accepted the engineering design plans of all the works.
3. The total value of all uncompleted subdivisional works, including internal water supply and sewerage works, must not exceed 50% of the total value of all subdivisional works.
4. The Superintendent (Consultant) must provide the following information:
 - Certification of the value of uncompleted works.
 - Detailed schedule of the scope and cost of the uncompleted works for auditing purposes.
 - Certification that all external and internal works can be completed and accepted On Maintenance within three (3) months of plan sealing.
 - Certification that the contract has been let for the construction of the remaining external and internal works and the name of the Contractor.
 - Proposed finish dates for remaining internal and external works.
5. An uncompleted works bond must have been prepared and executed. The amount of the bond must be 125% of the certified value of the uncompleted works including the cost of any works to be carried out by the Council for which payments have not been received.

The release of the uncompleted works bond can be arranged through the Licensing, Sealing & Certificates Unit on the advice by the Engineering Officer Development & Regulatory Services that works have been satisfactorily completed.



Council will generally accept up to \$200 000 security for uncompleted works without requiring a subdivision deed where the Developer gives a letter of undertaking and submits a bond document. The bond is executed by the bank in a standard Council format and incorporates a schedule of outstanding works and estimates. Council's Delegate formally accepts the undertaking and bond offered by the Developer.

Where the amount of security for uncompleted works exceeds \$200 000 the Developer must enter into a subdivision deed drawn up by Council at the Developer's expense and provide security, generally in the form of a bank guarantee.

3.4 NOTIFICATION AND INSPECTION PROTOCOLS

The Superintendent (Consultant) is responsible for undertaking inspections and certifying that:

- The design intent of the approved engineering drawings and relevant standards has been satisfactorily achieved.
- The works are constructed to within the tolerances specified in the approved engineering drawings, technical specifications and contract documents.

Council officers will not deal directly with the Contractor. The Superintendent is responsible for liaising with the Engineering Officer Development & Regulatory Services at the key joint inspections and sufficient notice must be given, as follows:

- Pre-start meeting (mandatory) - minimum 5 working days.
- Inspections during construction (as required) - minimum 48 hours.
- On Maintenance inspection (mandatory) - minimum 5 working days.
- Off Maintenance inspection (mandatory) - minimum 5 working days.

During the progress of the works on site, the Superintendent must notify the Engineering Officer Development & Regulatory Services of the information and requests for key activities outlined Table E3.4.1.



TABLE E3.4.1 JOINT INSPECTION PROTOCOLS

Timing	Activities
Prior to commencement of site works	<p>The Superintendent must submit letter advising:</p> <ul style="list-style-type: none"> ▪ Name, address and telephone number (including after hours contact) of the Superintendent (Consultant) for the subdivision or development. ▪ Name, address and telephone number of the Contractor(s) and major Sub-Contractor(s) for the subdivision or development (including after hours contact). ▪ Intended date of commencement of works.
Pre-start meeting	<p>The Superintendent must request pre-start meeting, noting that the meeting can only be held after all the engineering drawings have been approved. The agenda will generally include:</p> <ul style="list-style-type: none"> ▪ Introduction of stakeholders. ▪ Review of Development Approval conditions and approved engineering drawings. ▪ Inspection and identification of parks, waterways, and environmentally significant areas. ▪ Construction activities and program. ▪ Issues pertaining to Workplace Health & Safety Act and the Environmental Protection Act. ▪ Any other relevant matters.
Pavement boxed out to subgrade (subgrade box inspection)	<p>Subdivisions</p> <p>The Superintendent must submit subgrade CBR tests accompanied by pavement designs prior to the placement of pavement material. A courtesy phone call is required to advise the information have been sent.</p> <p>The Engineering Officer Development & Regulatory Services will advise the Superintendent within 48 hours from the receipt of notification advice, if he/she wishes to inspect the work at a joint inspection. The construction of the pavement must not proceed until the Engineering Officer Development & Regulatory Services responds.</p> <p>If the Superintendent decides on any changes to the pavement design as a result of the site inspection, a copy of the amended pavement design must be submitted.</p> <p>Site Developments</p> <p>The Superintendent must notify the Engineering Officer Development & Regulatory Services of the impending joint inspection. The Superintendent must provide at this inspection, copies of CBR tests and pavement designs.</p>
Prior to surfacing (pre-seal inspection)	<p>Subdivisions</p> <p>The Superintendent must ensure that all compliance requirements (eg construction tolerances, compaction standards, material quality test reports, etc) are met. The Superintendent must notify the Engineering Officer Development & Regulatory Services of the impending joint inspection.</p>



Timing	Activities
	<p>The Engineering Officer Development & Regulatory Services will advise the Superintendent within 48 hours from the receipt of notification advice, if he/she wishes to inspect the pavement at a joint inspection. The surfacing of the pavement must not proceed until the Engineering Officer Development & Regulatory Services responds.</p> <p>Site Developments The Superintendent must notify the Engineering Officer Development & Regulatory Services of the impending joint inspection. The Superintendent must provide at this inspection, copies of all compliance test results (eg construction tolerances, compaction standards, material quality test reports, etc).</p>
At practical completion (on maintenance inspection where substantial donated assets are involved/ site clearance inspection where there are no donated assets)	<p>Subdivisions The Superintendent must submit the On Maintenance Inspection Checklist (refer Appendix A) to the Engineering Officer Development & Regulatory Services and request an On Maintenance inspection.</p> <p>Refer Section 3.6 for details of the requirements to have the work formally accepted On Maintenance.</p> <p>Site Developments The Superintendent must notify the Engineering Officer Development & Regulatory Services of the impending site clearance inspection (also refer Section 3.6). The Superintendent must provide at this inspection, copies of any outstanding test results.</p>
Final acceptance of the works (off maintenance inspection)	<p>Subdivisions Following the expiry of the maintenance period (minimum 12 months) the Superintendent must notify the Engineering Officer Development & Regulatory Services of the impending Off Maintenance inspection. The Superintendent must inspect the site prior to the joint inspection to ensure that all the listed faults have been rectified. Refer Section 3.6 for details on the requirements.</p> <p>Site Developments A final Off Maintenance inspection is required for developments when external works have been placed On Maintenance and a maintenance security is held. The procedure is as per subdivisions above.</p>

3.5 COMPLIANCE REQUIREMENTS

The Superintendent is responsible for submitting compliance results (field and laboratory tests, and construction tolerances) and the relevant certificates (structural and geotechnical) to the Engineering Officer Development & Regulatory Services. These requirements are summarised in Table E3.5.1.



**Urban Management Division
Subdivision and Development Guidelines
Part E Engineering Procedures**

TABLE E3.5.1 COMPLIANCE REQUIREMENTS CHECKLIST

Item	Description	Reference	Timing of Submission to Council
1	Earthworks Eg compaction standards, select fill, construction tolerances	Specification S120 – Quality Specification S140 – Earthworks	Prior to acceptance On Maintenance and within 2 weeks from On Maintenance inspection
2	Pavement Design Eg 4 day soaked CBR values at subgrade	Chapter 5 of Part B of this document	Prior to placement of pavement material
3	Pavement Materials Eg grading, soaked CBR values, Atterberg limits, flakiness index	Specification S300 – Quarry Products Specification S310 – Supply of Asphalt	Prior to acceptance On Maintenance and within 2 weeks from On Maintenance inspection
3	Pavement Construction Eg compaction standards, delivery docket, AC core tests, construction tolerances	Specification S140 – Earthworks Specification S300 – Quarry Products Specification S320 – Laying of Asphalt	Prior to acceptance On Maintenance and within 2 weeks from On Maintenance inspection
4	Concrete Structures Eg construction tolerances, slump and strength tests, docket	Specification S120 – Quality Specification S200 – Concrete Work	Prior to acceptance On Maintenance and within 2 weeks from On Maintenance inspection
5	Stormwater Drainage Eg trench and backfill compaction results, construction tolerances, closed circuit television camera survey	Specification S140 – Earthworks Specification S160 – Drainage Section 6.5.1 of Part B of this document	Prior to acceptance On Maintenance and within 2 weeks from On Maintenance inspection
6	On Maintenance Inspection Checklist	Appendix A	Prior to On Maintenance inspection
7	Request for development to go On Maintenance	Section 3.6	Prior to acceptance On Maintenance and within 2 weeks from On Maintenance inspection
8	Structural/Geotechnical Certificates	Where Required	Prior to acceptance On Maintenance and within 2 weeks from On Maintenance inspection
9	Certificate of Completion	Appendix B	Prior to acceptance On Maintenance and within 2 weeks from On Maintenance inspection
9	As Constructed Drawings including Asset Register	Section 2.11 of Part E of this document and Section 3.6	Prior to acceptance On Maintenance and within 2 weeks from On Maintenance inspection



Item	Description	Reference	Timing of Submission to Council
10	Bonding Arrangement	Section 3.6	Prior to acceptance On Maintenance and within 2 weeks from On Maintenance inspection
11	Request to take Off Maintenance	Section 3.6	Following expiry of maintenance period and rectification of all defects
12	Release of bonds and securities	Section 3.6	Following expiry of maintenance period and acceptance of works by Council

3.6 MAINTENANCE/DEFECTS LIABILITY PERIOD

Works must be complete including the installation of street signs, street lights, speed control devices, traffic signs and pavement marking, in order to be accepted On Maintenance.

The maintenance or defects liability period is minimum of **twelve (12) months** from the date of acceptance On Maintenance. However longer periods may be required for specific items on the development where problems have been encountered or where poor workmanship is evident or where non-standard methods or materials have been used. The minimum 12 month maintenance period has been selected for the following reasons:

- Ability to monitor performance of contributed (donated) assets over a full seasonal cycle.
- Ability to monitor performance of contributed (donated) assets for design loads. For example, roads in a new subdivision are not always subject to the design traffic loads (eg refuse collection vehicles) during the first 6 months.
- The nominated period is consistent with industry trend.
- Ability to evaluate the overall performance of contributed (donated) assets especially with the shift towards self certification. Further, maximising the use of ecologically sensitive solutions such as natural channels and wetlands often requires longer establishment and performance monitoring periods.



**Urban Management Division
Subdivision and Development Guidelines
Part E Engineering Procedures**

Within two weeks from the date of On Maintenance inspection, the Superintendent must lodge the following documentation with the Engineering Officer Development & Regulatory Services, so that the formal acceptance of the development On Maintenance can be processed. If the documentation is not be supplied within the nominated period, the date of works being accepted On Maintenance will be deferred to the date when all the information is satisfactorily lodged.

1. Letter confirming satisfactory completion of the On Maintenance inspection and requesting that the maintenance period commence from the date of inspection and acknowledge that any defects will be attended to as soon as possible within the maintenance period.
2. A formal Certificate of Completion (including recording of non-compliance items and the corresponding corrective actions) issued by the Principal Engineering Consultant, based on the proforma template outlined in Appendix B.
3. One set of hardcopy As Constructed drawings on paper, endorsed by a Licensed Surveyor. In future, hardcopies may be complemented by digital submission.
4. As Constructed asset register. Refer Section 2.11 of Part E of this document.
5. All quality control testing and monitoring results including construction tolerances.
6. Advise form of proposed maintenance security (minimum \$2000 and not less than 5% of the contract sum). Alternatives may include offsetting against an existing bond, additional cash payment, or bank guarantee.
7. Request to reduce performance bonds if applicable, and bond any uncompleted footpaths, if applicable.

Formal acceptance of On Maintenance will be in the form of a correspondence from the Council Delegate to the Superintendent, confirming the On Maintenance date and listing the defects requiring rectification during the maintenance period, and advising how the maintenance security will be executed.

During the maintenance period, responsibility and liability for rectification of defects and for any damage that may occur (including damages caused by builders or utility service provider) lies with the Developer and not with Council, unless the work may be directly related to Council activities. The Developer must undertake the necessary steps to minimise the occurrences of damages. In circumstances where Council has a duty of care to undertake emergency repair works to safeguard public safety and where the repair works are related defective works or materials, Council will recover costs from the Developer.

Work that may have been bonded for construction during the maintenance period such as footpaths and bikeways must be completed prior to the development being taken Off Maintenance. However deferred construction may be considered in multi-stage developments. Any outstanding quality control test results such as asphalt core tests and 28 day concrete strengths not available at the On Maintenance inspection must be supplied during the maintenance period.

The purpose of the Off Maintenance inspection is to ensure that the constructed works had performed satisfactorily during the maintenance period and that omissions and defects have been rectified. The Superintendent is responsible for making sure that all unsatisfactory work and defects have been rectified prior to the Off Maintenance inspection.



Where the Engineering Officer Development & Regulatory Services deems that the Off Maintenance inspection is satisfactory, the Superintendent must request in writing for the development be taken Off Maintenance and that the maintenance security and any other bond monies be released.

Formal acceptance of Off Maintenance and release of security deposit will be in the form of a correspondence from the Council Delegate to the Superintendent. At this time, the donated assets are formally transferred to Council ownership.

For any development that does not involve any donated assets and following satisfactory completion of all the internal works, clearance advice from the Engineering Officer Development & Regulatory Services will be forwarded to the Building Inspector to effect the issuance of a Certificate of Classification.

3.7 AS CONSTRUCTED REQUIREMENTS

The Superintendent is responsible for ensuring that the As Constructed information (drawings and asset register) is accurate and reflects the actual construction, endorsed by a Licensed Surveyor. The non-compliance records and remedial actions have been incorporated to the Certificate of Completion in order to expedite the checking and approval process by placing the responsibility for identifying and reporting non-conforming works with the Superintendent. Council will only undertake random audit checks.

At this stage, one set of hardcopy As Constructed drawings must be submitted on paper. As the drawings are currently microfilmed, linework and lettering must be of suitable thickness and clarity (typically 0.25 mm black stencilled lettering) to be legible in the microfilm. Numerical amendments are usually denoted as a diagonal line through the design value with the As Constructed value noted adjacent. Encircling with a notated cloud usually denotes other amendments.

In future, hardcopies may be complemented by digital submission. Council is in the process of formulating a geo-relational model that would provide a link between geographic features (graphics) and attribute data, in order to facilitate the direct electronic transfer into Council's geographic information database system.

Street Identification

Correct street names and lot numbers must be shown on all relevant drawings.

Earthworks

Certification of approved design drawings(s) is usually sufficient provided the As Constructed spot levels are generally in accordance with the approved engineering drawings and built to within the specified construction tolerances.



Roadworks

Certification of approved design layout is usually sufficient provided the As Constructed grade and cross sectional information is confirmed in areas where roadway overland flow capacities are critical, and built to within the specified construction tolerances. The As Constructed drawings must also:

- Confirm that the permanent street, warning and regulatory signs are installed in accordance with the approved engineering drawings.
- Incorporate the As Constructed pavement thickness and composition. The minimum CBR values for the pavement materials must be noted on the longitudinal sections.

Stormwater and Roofwater Drainage

The following survey information is required:

- Manholes/inspection pits - location established by two ties, surface level, invert level.
- Stormwater lines - diameter, class, material type, length, grade, alignment, bedding support type.
- Roofwater house connections - location established by two ties, surface level, invert level.
- Overland flow path - surface level.

Digital Terrain Model

To enable Council to progressively update the citywide levels and contours, the following submissions are required.

- Digital terrain model (xyz file with breaklines) of the development. The accuracy of the survey data must generally conform to the construction tolerances specified in the Reference Specifications for Civil Engineering Work - S140 Earthworks. However in non-critical areas such as allotments, the planimetric precision of 0.2 m and vertical precision of 0.15 m are usually sufficient.
- A hardcopy plan depicting the 0.5 m contour intervals and survey spot levels of the development. Certification by a licensed surveyor is required to ensure that the accuracy and reliability of the dataset is maintained.



APPENDIX A ON MAINTENANCE INSPECTION CHECKLIST



ON MAINTENANCE INSPECTION CHECKLIST			
DEVELOPMENT NAME:		STAGE:	
ADDRESS:		FILE REFERENCE:	
Item	Description	Work Passed Yes/No/NA	Comments
A	ROOFWATER RETCULATION		
A1	Roofwater drainage system is constructed to plan.		
A2	Outlets to kerb and channel are satisfactory, installed with full height kerb adaptor.		
A3	Outlets other than to kerb satisfactory.		
A4	Each lot falling to the street has a full height kerb adaptor.		
A5	Roofwater system has been flow tested and is operating as designed.		
A6	Prefabricated lids are used on inspection pits.		
B	ENCLOSED STORMWATER DRAINS		
B1	Pipe layout is as per the plan or approved amendments with respect to pipe size, levels and location.		
B2	All pipeline joints and lifting plug holes are mortared, except for externally banded pipes (invert only) and rubber ringed joints.		
B3	All pipework is free of debris, siltation, etc.		
B4	Outlet/inlet structures are satisfactorily constructed and are protected from scour or siltation.		
B5	Trenches: <ul style="list-style-type: none"> ▪ No visual subsidence has occurred ▪ All density tests are available and satisfactory 		
B6	Closed circuit television camera (CCTV) inspection to demonstrate that the pipes do not sustain any premature cracking.		
B7	Pipe connections to gully pits are not constructed to the corner of two walls such that the pipe capacity is reduced.		
B8	All gully pits are constructed to the correct standards (including grate types, slots, backstones, etc).		
B9	Grates are seated in frames without movement.		
B10	All manhole roofs (aspros) are mortared to the manhole walls.		
B11	Manhole lids are seated in frames without movement.		
B12	All manhole and gully pit pipe connections are mortared flush with the walls and that no pipe reinforcement is exposed.		



ON MAINTENANCE INSPECTION CHECKLIST			
DEVELOPMENT NAME:		STAGE:	
ADDRESS:		FILE REFERENCE:	
Item	Description	Work Passed Yes/No/NA	Comments
B13	Manholes are constructed to standards and are satisfactory ie absence of any foreign materials or voids.		
B14	Step irons have been securely installed to provide easy access.		
B15	Step irons have been installed in gullies and manholes > 1.35 m deep.		
C	OPEN CUT CHANNELS		
C1	Open channels are constructed to design profiles.		
C2	Lining of channel is to the required thickness and reinforcement, with appropriate weepholes.		
C3	Low flow channel or pipe has been constructed satisfactorily.		
C4	Unlined sections are stable and/or grass/turf has been established.		
C5	Smooth transitions have been provided between new work and natural channels.		
C6	Cut-off walls have been constructed to all concrete channel edges and outlet or inlet structures.		
D	MISCELLANEOUS DRAINAGE		
D1	Appropriate overland flow paths are provided and clear of obstruction.		
D2	Outlets and outfalls have been constructed to control discharge flow in accordance with the plans.		
D3	Subsoil drainage discharges to gullies or other approved point of discharge.		
D4	Side drains have been checked hydraulically and found to operate satisfactorily.		
E	ROAD PAVEMENTS		
E1	Plan layout and geometry of road system is accordance with the drawings.		
E2	Finished levels at crown and channel are at design levels.		
E3	Crossfalls are to the approved plan.		
E4	AC surfacing is satisfactory in respect of finish and thickness.		
E5	Joints in the seal (especially where various development stages apply) are flush.		
E6	The sealed surface is free of blemishes, including those caused by the base of backhoe legs. When caused by utility		



ON MAINTENANCE INSPECTION CHECKLIST			
DEVELOPMENT NAME:		STAGE:	
ADDRESS:		FILE REFERENCE:	
Item	Description	Work Passed Yes/No/NA	Comments
	service providers, the damage must be repaired during the maintenance period.		
E7	No areas of ponding around islands or adjacent manholes or channel.		
F	SEGMENTAL PAVERS		
F1	All pavers are laid to the correct pattern to within allowable tolerance, compacted, and the joints filled.		
F2	Bedding sand for pavers drain to subsoil drainage.		
F3	Pavers adjacent to CKC, edge restraints etc are cut and laid as per the specified standards.		
F4	Weedicide has been placed on the bedding sand.		
G	STENCIL PATTERN CONCRETE		
G1	Level of concrete pavement joins neatly onto the AC surface and the CKC.		
G2	Good coverage of colour hardener have been applied as per the specification.		
G3	Two coat protective sealer have been applied.		
H	CONCRETE KERB & CHANNEL (CKC) AND MEDIANS		
H1	The correct type are used at all locations (including medians) in accordance with the specified standards.		
H2	Ponding of stormwater does not occur.		
H3	Transitions and connections to existing construction are smooth and to a satisfactory standard of workmanship.		
H4	Service markers are placed in kerb face. Conduits must be exposed for inspection purposes.		
H5	Lip and back of kerb are flush with the roadway and footpath respectively.		
H6	All channelisation works and medians have been satisfactorily completed.		
H7	Infill treatment of medians has been inspected and found satisfactory. Any landscaping has been completed as per approved drawings.		
H8	Backing Strips are provided to median kerbs where required.		
H9	Side drains are provided under medians.		



ON MAINTENANCE INSPECTION CHECKLIST			
DEVELOPMENT NAME:		STAGE:	
ADDRESS:		FILE REFERENCE:	
Item	Description	Work Passed Yes/No/NA	Comments
I VERGES			
I1	Profiles are as per plan.		
I2	Verges are topsoiled in accordance with the specified standards.		
I3	Verges are grass seeded and fertilised or turfed to the specified standards.		
I4	All service fixtures (such as valves) are flush with the surrounding verge.		
I5	Concrete footpaths are constructed to the specified standards. Note: Concrete footpaths can be bonded for the construction at a later date.		
I6	Pram ramps are constructed as required.		
J BIKEWAYS			
J1	Location and width are as per the plan. Note: Bikeways can be bonded for the construction at a later date.		
J2	Kerb ramps and crossings are constructed.		
J3	Safety rails and signs are installed.		
K FENCING AND FEATURES			
K1	All fences other than approved entrance features are constructed within allotments. Survey pegs are visible.		
K2	Specifically approved entrance features are constructed in accordance with the drawings.		
K3	Entrance features and fences have satisfied Building Approvals (if required).		
K4	Sound attenuation fences are contained wholly within the allotments and constructed in accordance with the drawings.		
L EARTHWORKS			
L1	Toe of fill batters and top of cut batters are setback a minimum of 0.3 m from boundary of the public space.		
L2	Retaining walls are contained wholly within the allotments.		
L3	Retaining walls constructed in accordance with the approved drawings.		
L4	Batter slopes are constructed in accordance with the approved drawings.		
L5	Batter slopes stabilised against erosion.		
L6	Interim drainage is constructed in accordance with approved drawings.		



ON MAINTENANCE INSPECTION CHECKLIST			
DEVELOPMENT NAME:		STAGE:	
ADDRESS:		FILE REFERENCE:	
Item	Description	Work Passed Yes/No/NA	Comments
M LANDSCAPING			
M1	Landscaping is placed as per the approved landscaping plan.		
M2	Irrigation system has been removed, or will be removed by (insert date)		
M3	Establishment program is implemented.		
N WATER QUALITY			
N1	Implement the approved erosion and sediment control plan during construction phase.		
N2	If required, implement water quality sampling and analysis.		
N3	Other items.		
O OTHER MISCELLANEOUS			
O1	Signs of Pavement Marking for roads and bikeways are installed as per the approved drawings.		
O2	Works have not resulted in problems on neighbouring properties.		
O3	All new lots have been surveyed and found to be correct as per approved layout plan and engineering drawings.		
O4	The quality control testing program has been implemented.		
O5	Works are constructed to within the specified tolerances.		
O6	Other items.		

PRINCIPAL CONSULTANT

Company Name

Contact Name

RPEQ No.

Signature

Certification Date



APPENDIX B CERTIFICATE OF COMPLETION (TEMPLATE)



CERTIFICATE OF COMPLETION (TEMPLATE ONLY)

DEVELOPMENT DETAILS

Development Name _____
Stage (if applicable) _____
Development Approval Reference _____
Address _____
UBD Reference (eg 161 H16) _____
Real Property Description _____

PRINCIPAL CONSULTANT

Company Name _____
Contact Name _____
RPEQ No. _____
Address for Correspondence _____
Telephone/Facsimile _____

CERTIFICATION

I certify that that the earthworks, roadworks, drainage, and other associated works for the above development:

- Have been constructed to the specified tolerances,
- Have complied with the quality control testing standards, and
- Have been completed in accordance with the approved engineering drawings, specifications and the relevant documents.

Further I (or a nominated representative) have diligently undertaken all the necessary supervision and inspection of works to ensure that the design intent has been achieved.

Signature _____
Duly Authorised On Behalf of _____
(insert name of Consultant) _____
RPEQ No. _____
Date _____

List reference details of the _____
relevant drawings and any _____
other relevant documents, _____
including title, revision, date, etc _____

