



APPENDIX 1

**ENGINEERING DRAWING
CHECKLIST**

**PENRITH CITY COUNCIL
ENGINEERING DRAWING CHECKLIST**

This checklist is to be completed and certified by the Design Engineer

PLANS

| | | |
|---|-----|-----|
| North Point on all plans | YES | N/A |
| Locality sketch | YES | N/A |
| Limit of works | YES | N/A |
| Road Names | YES | N/A |
| Allotment boundaries and numbers | YES | N/A |
| Existing easements - drainage, services, rights-of-carriageway, etc. | YES | N/A |
| Existing services - water, sewer, drainage, etc. | YES | N/A |
| Existing features - trees, buildings, dams, road formation, etc. | YES | N/A |
| Existing surface levels and contours | YES | N/A |
| Fill/regrading areas | YES | N/A |
| Finished surface levels and contours | YES | N/A |
| Proposed easements - drainage, services, rights-of-carriageway, etc | YES | N/A |
| Interalotment drainage lines, including junction locations | YES | N/A |
| All lots drain to road or interallotment drainage system | YES | N/A |
| Service conduit locations | YES | N/A |
| Road centrelines - chainages, bearings, tangent points, curve radii, etc. | YES | N/A |
| Road widths - carriageways, footways, etc. | YES | N/A |
| Kerb radii (where not parallel to centreline) | YES | N/A |
| Edge of pavement where no kerb is constructed | YES | N/A |
| Location and details of all traffic management devices, signs, guideposts, guardrails, road furniture, etc. | YES | N/A |
| Location of concrete footpaths, cycleways, etc. | YES | N/A |
| Location of vehicular crossings, pram ramps, etc. | YES | N/A |
| Changes in pavement construction or type | YES | N/A |
| Origin of levels and location of permanent survey marks | YES | N/A |
| Drawing number and sheet number | YES | N/A |
| Scale shown on all sheets (including bar scale) | YES | N/A |
| Schedule showing date and nature of any amendments | YES | N/A |
| Drawing title | YES | N/A |
| Developers Name | YES | N/A |

Consultants Name and Address

| | |
|-----|-----|
| YES | N/A |
|-----|-----|

ROADS

Longitudinal sections of all road centrelines including existing surface levels, gradings, vertical curves, crests, low points, etc.

| | |
|-----|-----|
| YES | N/A |
|-----|-----|

Vertical curves provide appropriate stopping sight distance and comfort

| | |
|-----|-----|
| YES | N/A |
|-----|-----|

Design gradings - within acceptable range

| | |
|-----|-----|
| YES | N/A |
|-----|-----|

Longitudinal sections of korb returns and cul-de-sacs including gradings, vertical curves, crests, low points, etc.

| | |
|-----|-----|
| YES | N/A |
|-----|-----|

Pavement design completed using design traffic loadings nominated by Council and submitted for approval

| | |
|-----|-----|
| YES | N/A |
|-----|-----|

Typical cross-sections of all roads including pavement details, crossfalls, korb and gutter type, etc.

| | |
|-----|-----|
| YES | N/A |
|-----|-----|

Cross-sections at natural scale showing grades (where these differ from typical section), extent of batters, etc.

| | |
|-----|-----|
| YES | N/A |
|-----|-----|

Intersections and cul-de-sacs - contoured

| | |
|-----|-----|
| YES | N/A |
|-----|-----|

Match with existing construction

| | |
|-----|-----|
| YES | N/A |
|-----|-----|

*Design complete -
Report by geotech. engineer
to follow.*

DRAINAGE - Major/Minor

Catchment plans

| | |
|-----|-----|
| YES | N/A |
|-----|-----|

Hydrological calculations

| | |
|-----|-----|
| YES | N/A |
|-----|-----|

Hydraulic calculations

| | |
|-----|-----|
| YES | N/A |
|-----|-----|

Pit, pipe and headwall locations shown on plans

| | |
|-----|-----|
| YES | N/A |
|-----|-----|

Gutter flow does not exceed 80 litres/sec or 2.5m in width

| | |
|-----|-----|
| YES | N/A |
|-----|-----|

Pit bypass less than 15% of flow

| | |
|-----|-----|
| YES | N/A |
|-----|-----|

Pit spacing less than 75m

| | |
|-----|-----|
| YES | N/A |
|-----|-----|

Pipe class is appropriate given cover or depth requirements

| | |
|-----|-----|
| YES | N/A |
|-----|-----|

Pipe grade allows for self-cleansing at low flow velocities

| | |
|-----|-----|
| YES | N/A |
|-----|-----|

Longitudinal sections of all pipelines showing pipe grades and classes, pit names/numbers and type, hydraulic grade line, etc.

| | |
|-----|-----|
| YES | N/A |
|-----|-----|

Plan and sectional views of all non-standard drainage structures

| | |
|-----|-----|
| YES | N/A |
|-----|-----|

Downstream owners consent to discharge of stormwater

| | |
|-----|-----|
| YES | N/A |
|-----|-----|

MISCELLANEOUS

Structural details of retaining walls, etc.

| | |
|-----|-----|
| YES | N/A |
|-----|-----|

Details, sections of traffic management devices

| | |
|-----|-----|
| YES | N/A |
|-----|-----|

| | | |
|--|--------------------------------------|--------------------------------------|
| Design satisfies the intent of engineering conditions of the subdivision/development consent issued by Council | <input checked="" type="radio"/> YES | <input type="radio"/> N/A |
| Design complies with Council's Design Specifications and/or relevant Australian Standards | <input checked="" type="radio"/> YES | <input type="radio"/> N/A |
| Roads and Traffic Authority approval to works on classified roads | <input type="radio"/> YES | <input checked="" type="radio"/> N/A |
| Adjoining owners consent to works on property | <input checked="" type="radio"/> YES | <input type="radio"/> N/A |
| Soil erosion and sediment control plan | <input checked="" type="radio"/> YES | <input type="radio"/> N/A |
| EPA approval of soil erosion and sediment control measures (subdivisions of 50 lots or more) | <input type="radio"/> YES | <input checked="" type="radio"/> N/A |
| Traffic management plan | <input type="radio"/> YES | <input checked="" type="radio"/> N/A |

Condition 22 of consent states TMP to be submitted with the Notice of commencement to PCC.

signed..... *Katrina Griffin*

Name..... *Katrina Griffin BE (Hons)*

Address..... *Se 2 L1 668 Princes Hwy, Sutherland 2232*

NPER-3 Registration number (if applicable).....