

LOCAL AUTHORITY SPECIFIC REQUIREMENTS

INTRODUCTION

This Section contains variations and additions to the Operational Works Guidelines, which are considered necessary for the effective application of the Guidelines in Mareeba Shire Council and shall be treated as amendments to the Guidelines.

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The following sections have varied or additional clauses

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CONSTRUCTION PROCEDURES

CP1.10 GENERAL REQUIREMENTS

ADDITIONAL CLAUSES

5. All pipe laying work for water and sewerage reticulation installations is to be carried out under the supervision of a licensed plumber who has undertaken a manufacturers pipe laying accreditation course.

DESIGN GUIDELINE - D3 ROAD PAVEMENTS

D3.14 ASPHALTIC CONCRETE

ADDITIONAL CLAUSE

5. Prime
 - An AMC 0 or AMC 00 prime is required to be applied to the granular pavement prior to the application of the asphalt. The primer design is required to be submitted to Council for approval prior to application. The design will ensure that the maximum residual bitumen remaining on the pavement surface does not exceed 0.3 l/m². The prime is to have a minimum curing time of 48 hours prior to applying the asphalt. Asphalt is only to be applied once the primed surface is not sticky to touch.
 - In the event that the pavement is required to take traffic, a primer seal is required to be submitted for Council approval.

DESIGN GUIDELINE – D4 STORMWATER DRAINAGE

D4.08 KERB INLETS AND MANHOLES

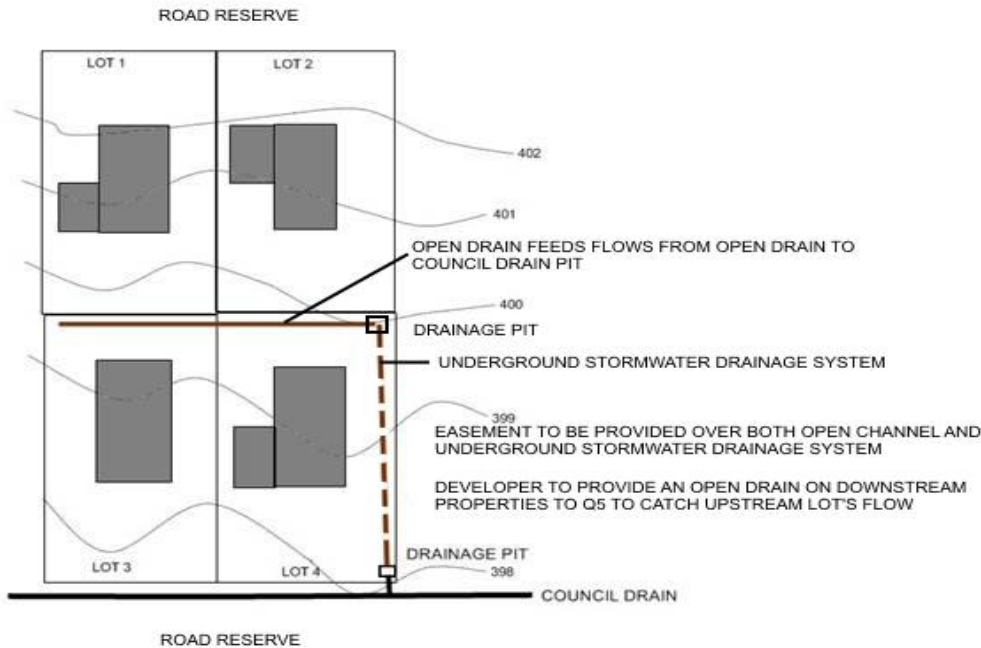
ADDITIONAL CLAUSE –

11. Gully to gully drain lines are acceptable for pipes 750mm diameter or less provided that the developer complies with the following requirements:
 - Gully pit complies with the Standard drawings
 - Acute angles in the connecting pipes are avoided to minimize lead losses
 - Interference with utility services on the footpath is avoided
 - The major drainage line (spine) of the gully to gully system is constructed on one side of the road only. Any gullies on the opposite side of the road must be connected directly across the road
 - The gully pit is appropriately benched

D4.13 ALLOTMENT DRAINAGE / CATCH DRAIN

ADDITION TO CLAUSE

1. It should be noted that underground roof and allotment drainage systems as detailed in Section 5.18 of QUDM shall not be permitted. All inter allotment drainage works shall be conveyed above ground via catch drains and / or by extension of Councils minor drainage system. Each lot downstream shall provide an open drain to Q5 to catch upstream lots flow i.e



D4.17 TABLE DRAINS

SUBSTITUTE CLAUSE

2. Table drains generally shall be trapezoidal with a minimum channel width of 1.0m and a roadside batter slope of 1 in 4. Cut / Fill batter to natural surface shall be 1 in 2 where height of the batter is greater than 1.5m and 1 in 4 where the height of the batter is less than 1.5 m. Council may relax this condition through cuttings where earthworks may be excessive.

DESIGN GUIDELINE - D6 WATER RETICULATION

D6.10 RETICULATION NETWORK

ADDITIONAL CLAUSE

3. Where non-metallic pipe is laid a continuous stainless steel wire, 1.6mm (min) diameter, shall be laid immediately above the fill sand to assist in future location. This wire shall be wrapped once around all hydrants and sluice valves.
4. The minimum test pressure for all pipes shall be 1250 KPa and twenty-four (24) hours notice is to be given to the Water Officer prior to testing. Council's minimum test pressure and inspection notification requirements are to be clearly noted on the approved Project Drawings / Specification

4. MARKERS

Raised Pavement Markers

Raised Pavement Markers shall be provided as approved by the Department of Main Roads Queensland shall be:

Valves - orange in colour with reflector both sides and an arrow indicating the location of the valve.

5. CONDUITS

Additional Clause

Conduits shall extend 1000 mm beyond the back of the kerb and in the case where the verge contains a pathway the conduits shall extend 1000 mm beyond the path.

D6.17 TELEMETRY SYSTEMS

ADDITIONAL CLAUSE

3. All pump stations must be fitted with telemetry system in accordance with Council's Specification for Telemetry Systems.

DESIGN GUIDELINE – D7 SEWERAGE SYSTEMS

D7.09 SEWER ALIGNMENT

ADD CLAUSE

8. Sewer location wire to be placed on fill sand and terminated inside the manhole at the join of the lid sections

D7.16 PUMP STATIONS

2. Operation levels for pump stations to be controlled by "King Fisher" probes or hydrostatic probes and not by float switches. Major pump stations as determined by the Council shall be controlled by ultra sonic level controllers.

Additional Clause

1. The position of switchboard, vent and access cover opening shall suit the standing area's position for pump unit removal.
2. The pumping station site plan shall detail the access facilities and finished ground levels as well as location of the vent pole and switchboard, incoming sewer and pressure main.
3. The access covers shall open away from the direction of the standing area, i.e. open covers shall not occur between the access opening and the vehicle standing area.

Additional Clause

1. An isolating valve shall be provided on the gravity inlet sewer inside the pumping station.

2. The valve shall be a fully Grade 316 stainless steel lugged knife gate valve including stainless steel superstructure and non-rising spindle adaptor with stainless steel metal to metal seat such as a Dezurik KGS or similar complete with a Grade 316 stainless steel non-rising extended spindle and brackets.
3. The brackets are to be spaced at a maximum of 1.5 m and shall be provided with HMW polyethylene bearings.

Additional Clause

1. On 2.0m dia Wetwell stations the sprinkler head is to be a Senninger 'Super Spray' with No 26 nozzle (10.32mm orifice) and is to be fitted to the underside of the roof slab above the pump well.
2. A No. 20 nozzle (7.94mm orifice) may be required on stations with lower water pressure.
3. Internal pumping station pipework from the external wall of the wet well shall be 20 mm diameter ABS fixed with Grade 316 stainless steel brackets and - fasteners.
4. The ABS sprinkler elbow shall be 20mm Faucet x 20mm ABS. Pipework external to the wet well shall be 20 mm diameter copper.

Additional Clause

1. On 3.2m dia Wetwell stations a customised approved sprinkler system utilizing all stainless steel components shall be installed.
2. The consultant should discuss the proposed system with Council at design stage.

Additional Clause

1. Installation of the backflow prevention device is to be by a licensed accredited plumber.
2. Prior to acceptance 'on maintenance'; the device is to be inspected and tested by an accredited licensed plumber.
3. The results of the test detailing the device type, model and serial number is to be submitted to Council for its asset register, together with a copy of the Plumber's Certificate of Endorsement to install and test such devices.
4. 5.8.4.3 A ¾" (20mm) 'Dorf' brand hosecock including flat-sided anti-vandal handle and top assembly fixed to a cost above ground is to be provided beside the pumping station.
5. The water service shall be a minimum of 25 mm Type B Copper from Council mains. The above ground pipework to the hosecock shall be 20mm diameter copper.
6. Any copper pipe penetrating concrete shall be encapsulated within a PVC conduit.

Additional Clause

The doors to the switchboard shall not open over the opening to the pump station or the valve pit.

Additional Clause

1. Unless advised otherwise by Council, the switchboard shall have provision for a mobile generator to power one pump at the station in the event of supply authority power outage.
2. A plug in type three phase Wilco WIBM 532R socket for 0-6kW pump units and a Wilco WIBM 550 R socket for 6-22 kW pump units is to be provided within a separate lockable compartment at the switchboard side of the cubicle.
3. Copper busbar tags drilled to accept lug terminals shall be provided for switchboards over 22kW.
4. A Traffolyte label attached to the inside door of the compartment is to specify in kVa the minimum size generator required to start and drive one (1) pump unit at the station.

5. A suitable interlock system shall be provided to ensure that only one pump may operate whilst powered by the generator.

Additional Clause

1. The pump cable conduit is to be completely sealed to prevent pump well air entering the switchboard cubicle.
2. The sealing arrangement are to be capable of being resealed after pump removal.
3. All concrete pump stations to have waterproof coating applied to external walls prior to backfilling.

SPECIFICATION – S4 STORMWATER DRAINAGE

S4.26 CCTV INSPECTION OF STORMWATER DRAINAGE SYSTEM

Amended Clause

1. All underground stormwater drainage systems are to be inspected by closed circuit television (CCTV) 14 days prior to date for final inspection and a report including the CCTV files submitted to Council for assessment.

MAREEBA SHIRE COUNCIL STANDARD DRAWINGS

1. The following additional Standard Drawings, shall be deemed to be applicable for those works that shall ultimately become Mareeba Shire Council's responsibility for ongoing maintenance:

Drawing No.	Revision	Title
MSC S2000	A	Valve Box Installation
MSC S2005	A	Hydrant Box installation
MSC S2015	A	Thrust Block Details
MSC S2020	D	Main Connection Details
MSC S2060	A	Domestic Water Service Connection Details