

CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINES

2022 MEETING 02 MINUTES

Venue: GRC Offices at Calliope

Date and Time: 3 March 2022 10:00 am

Attendance: Chris Hegarty (MCE), Richard Bywater (MCE), Jamie McCaul (RRC), Grant Vaughan (RRC), Scott McDonald (GRC), Brendan Fuller (GRC), Graham Sweetlove (MRC), Karen McMillan (MRC), Kym Downey (CHRC), Anthony Lipsys (BSC), Daniel Price (BSC), Chandrasiri Jayalath (BSC)

Apologies: Robin Thekkekara (IRC), Joel Kuczynski (IRC), Dev Krishnasamy (LSC), Greg Abbotts (LSC), Allan Heit (BSC)

Item	Item	Action By																																	
22.02.00A	<p>Meeting Format</p> <ul style="list-style-type: none">GRC Have suggested a new meeting format. For the current meeting it would generally look like the following – The aim is to discuss the draft format / numbering system and agree on a format for all future meetings <p>TEAG format used as an example</p> <ol style="list-style-type: none">WelcomeApologiesTrue and correct record of minutes from previous meeting (Typically adopted via email correspondence in accordance with MOU)Terms of reference (if we need to discuss any suggested changes over time)Address Outstanding Items From Previous Meeting <table><tr><th>Item number</th><th>Item</th><th>Proponent</th></tr><tr><td>M22.01.01</td><td>Website Update - Committee Requirements</td><td></td></tr><tr><td>M22.01.02</td><td>IPWEAQ Standard Drawing Review (maybe better as a general business item?)</td><td></td></tr><tr><td>M22.01.03</td><td>Standard Drawing Styles</td><td></td></tr><tr><td>M22.01.04</td><td>D1 – IRC and CHRC Rural Roads Tables</td><td></td></tr><tr><td>M22.01.05</td><td>Standard Drawings to be amended (CMDG-G-011, CMDG-R-051, CMDG-R-055, CMDG-R-055A, CMDG-R-058, CMDG-W-040, CMDG-W-041)</td><td></td></tr><tr><td>M22.01.06</td><td>Table D05.04.01 Design AEP's</td><td></td></tr><tr><td>M15.5</td><td>D1 Geometric Road Design – finalise new tables</td><td></td></tr><tr><td>M15.18</td><td>D1 Geometric Road Design – solar lighting rural and urban</td><td></td></tr><tr><td>M15.7</td><td>D2 Pavement Design – amend APRG Report 21 as outdated reference and LSC to review design procedure and references</td><td></td></tr><tr><td>M15.15</td><td>D9 Cycleway and Pathway Design revision</td><td></td></tr></table>	Item number	Item	Proponent	M22.01.01	Website Update - Committee Requirements		M22.01.02	IPWEAQ Standard Drawing Review (maybe better as a general business item?)		M22.01.03	Standard Drawing Styles		M22.01.04	D1 – IRC and CHRC Rural Roads Tables		M22.01.05	Standard Drawings to be amended (CMDG-G-011, CMDG-R-051, CMDG-R-055, CMDG-R-055A, CMDG-R-058, CMDG-W-040, CMDG-W-041)		M22.01.06	Table D05.04.01 Design AEP's		M15.5	D1 Geometric Road Design – finalise new tables		M15.18	D1 Geometric Road Design – solar lighting rural and urban		M15.7	D2 Pavement Design – amend APRG Report 21 as outdated reference and LSC to review design procedure and references		M15.15	D9 Cycleway and Pathway Design revision		
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	M15.16	Draft underbore detail		MCE	
	M16.5	D5 Stormwater Design – Provide template for SWMP	GRC		
	M16.9	PS5 PVC Pressure Pipe (Poly services to be PN16 not PN 12)			
	M16.10	C273 Landscaping – amend hydromulch spec			
	M15.20	PS26 Marker Posts			
	M15.21	PS28 Gaskets			
	M15.22	C242 Pavements – Amend references as advised by GRC			
	?	D10 Landscape Design			
	?	Parks standard drawings			
	?	D6 Site regrading – consider retaining wall issue			
	M22.01.08	CMDG-S-030 Type C Vertical H.C.			
	M22.01.09	CMDG-S-026 Lamphole Details			
	6. New Agenda Items				
	Item number	Item	Proponent		
	M22.02.01	Use of RPEQ Signed Change Request forms	All		
	M22.02.02	CMDG Action Register	MCE		
	M22.02.03	D1 Geometric Road Design – Rural Heavy Industry Access Road	IRC		
	M22.02.04	CMDG-R-050 Drawing review	LSC		
	M22.02.05	Use of Corrugated polypropylene drainage pipes	LSC		
	M22.02.06	CMDG-D-033 Use of Precast Square roof water pits	LSC		
	7. General Business				
	8. Next meeting				
	9. Meeting closed at				
<u>Resolution</u>					
Agreed to use this format to make tracking of agenda items easier.					
<u>Action By –</u>					
MCE					
22.02.00B	Matters Arising from previous meeting minutes <ul style="list-style-type: none">Previous minutes are at Attachment H. <u>Resolution</u> Nil <u>Action By –</u>				
22.02.01	Website <ul style="list-style-type: none">Progress report on website update. Grant provided summary update on progress. RRC I.T. don't have the resources to carry out the website update internally. GRC legal team has expressed concerns regarding website ownership if externally designed and procured through MCE. Scott to discuss further with GRC legal team as other Councils including RRC do not share				

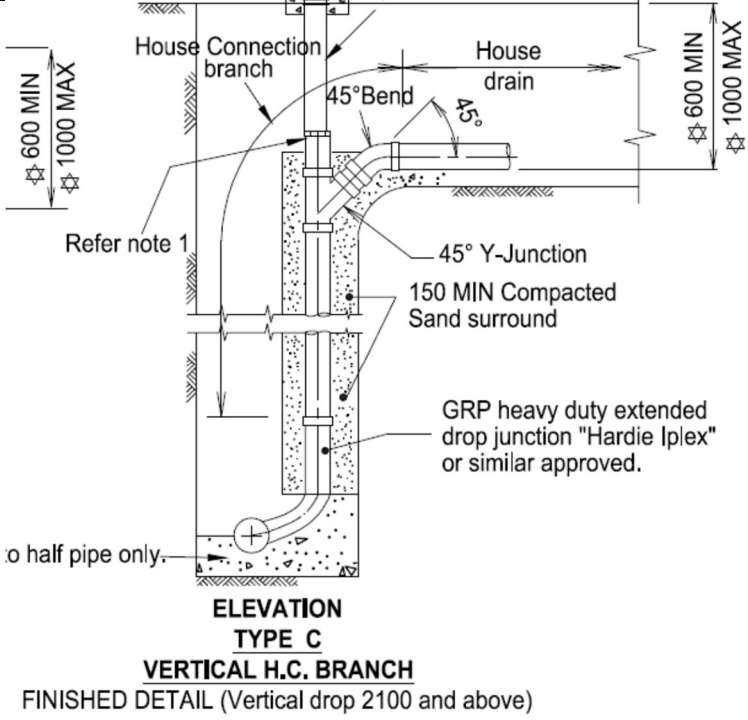
Item	Item	Action By
	<p>the same concerns. Consideration to be given to setup/ functionality and maintenance.</p> <p><u>Resolution</u></p> <p>MCE to put together scope in coordination with Grant/RRC (Grant to provide initial scope document for MCE to expand on). RRC I.T. department will provide some technical input/review regarding the scope. Aim for draft scope to be completed by next meeting. Scott to liaise with GRC legal team regarding procurement.</p> <p><u>Action By</u></p> <p>MCE/ RRC/ GRC</p>	MCE/RRC/ GRC
22.02.02	<p>IPWEAQ Standard Drawing Review</p> <ul style="list-style-type: none"> Update on whether anyone has received approval to participate in the review including any updates on IPWEAQ Progress. No further progress of the drawing review. Scott informed the committee that IPWEAQ are still working on changing and updating the drawings. The suite is not finalised ready for review yet. Some discussion around adopting any of the IPWEAQ standard drawings/ referencing them in CMDG. Availability/ cost of these drawings is a potential issue. Grant and Scott to discuss with IPWEAQ about potential drawing sharing options/ availability including the possibility of posting any adopted IPWEAQ drawings on the CMDG website. <p><u>Resolution</u></p> <p>Grant/ Scott to discuss drawing availability with IPWEAQ</p> <p><u>Action By</u></p> <p>RRC/GRC</p>	RRC/GRC
22.02.03	<p>Use of RPEQ Signed Change Request forms</p> <ul style="list-style-type: none"> This item is to further discussion regarding the circumstances requiring the use of these forms. A new resolution is proposed below to provide further clarity <p><u>Resolution</u></p> <ol style="list-style-type: none"> RPEQ signed form will be requested for changes that require engineering judgement outside of prescriptive standards. The RPEQ signed form will not be required to action administrative or clarification changes or where a resolution is made at a Steering Committee meeting. The RPEQ Change forms (word copies) be made available on the website. Form 1 will be modified to allow submission of change requests via email Form 2 will be updated to suit the specific requirements defined in point 1. <p><u>Action By</u> MCE</p>	MCE
22.02.04	<p>CMDG Action Register</p> <ul style="list-style-type: none"> The purpose of this agenda item is to outline the status of all actions requested. Note this register commences at Nov 2021 when MCE became involved and may not capture any requests or actions prior to that date. If there are any missing requests then please advise. The current register is at Attachment A <p><u>Resolution</u></p> <p>Column to be included to cross reference agenda item number with action.</p>	MCE

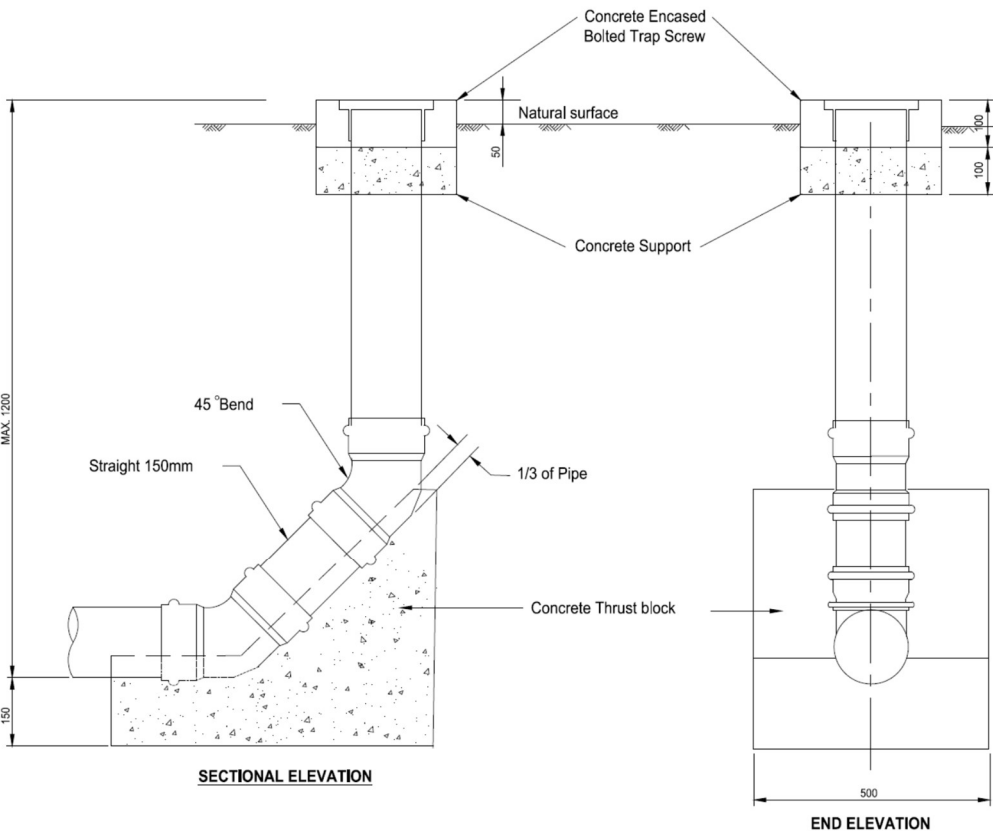
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22.02.05	<p>CMDG-G-011 Proposed changes</p> <ul style="list-style-type: none">LSC have withdrawn the request to update the drawing. They have advised that changes were made to suit supply from the local contractor at the time for the sewer treatment plantDespite this request it is considered worth discussing in view of the comparison below with other drawingsThe proposed new drawing prepared by LSC is at Attachment B including IPWEAQ Drawing GS-041 and TMR Drawing 1206 for comparison purposesThe following table compares member sizes for an 1800mm high fence <table><tr><td></td><td>Current CMDG</td><td>Proposed CMDG</td><td>GS-041 (IPWEAQ)</td><td>SD 1602 (TMR)</td></tr><tr><td>Gate Post sizes</td><td>DN 80 (light)(3.2mm)</td><td>Proposed 100NB (medium)(4.5 mm) for opening >6m otherwise 80NB (medium)(4.0 mm)</td><td>80NB (light)(3.2mm)</td><td>88.9 x 5.0 CHS</td></tr><tr><td>End or Corner Post sizes</td><td>DN 80 (light)(3.2mm)</td><td>50NB (medium)(3.6 mm)</td><td>50NB (light)(2.9mm)</td><td>60.3 x 4.5 CHS</td></tr><tr><td>Intermediate Post sizes</td><td>DN 50 (light)(2.9mm)</td><td>40NB (medium)(3.2 mm)</td><td>32NB (light)(2.6mm)</td><td>48.3 x 4.0 CHS</td></tr></table> <p><u>Resolution</u> Nil <u>Action By</u> N/A</p>		Current CMDG	Proposed CMDG	GS-041 (IPWEAQ)	SD 1602 (TMR)	Gate Post sizes	DN 80 (light)(3.2mm)	Proposed 100NB (medium)(4.5 mm) for opening >6m otherwise 80NB (medium)(4.0 mm)	80NB (light)(3.2mm)	88.9 x 5.0 CHS	End or Corner Post sizes	DN 80 (light)(3.2mm)	50NB (medium)(3.6 mm)	50NB (light)(2.9mm)	60.3 x 4.5 CHS	Intermediate Post sizes	DN 50 (light)(2.9mm)	40NB (medium)(3.2 mm)	32NB (light)(2.6mm)	48.3 x 4.0 CHS	
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22.02.06	<p>CMDG-R-055 Bollards</p> <ul style="list-style-type: none">The proposed version G drawing is at Attachment C including the drawing to be discontinued.Changes from M15.11 have been incorporated. Plan to produce a single drawing for this. It appears some Councils do not like Plastic bollards. We have clarified that matter in the applicability box. All other details appear the same. Footing depth for steel bollard has been increased from 500 to 600 (need to get down to the stable zone free from wetting / drying. 750mm deep footing provided for 1300mm bollard - is there a particular use intended for the 1300mm bollard? Is a removable bollard or lockrail drawing required for park access (example on additional sheet)?Discussion about uppercase vs lower case for text/notes. Agreed that Uppercase of titles and lower case for leaders and notes.Some interest from committee regarding removable bollards/lockrails. Existing lockrail drawing (not part of standard drawings set) to be discussed at next meeting.	MCE																				

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	<u>Resolution</u> CMDG-R-055 Ver G be approved for website upload. Some minor drafting changes required CMDG-R-055A be superseded . <u>Action By</u> MCE	
22.02.07	CMDG-W-040 <ul style="list-style-type: none"> The proposed drawing is at Attachment D along with the existing CMDG-S-090 drawing which GRC has suggested needs to be discussed as well so that a coherent strategy is presented for trenching in water and sewer applications. <u>Resolution</u> CMDG-W-040 Ver G - MCE to check specifications for depths etc to be consistent (especially Type C) Standard drawing S-090 to also be updated by MCE following feedback from GRC after staff consultation. <u>Action By</u> MCE	GRC/ MCE
22.02.08	CMDG-W-041 <ul style="list-style-type: none"> The proposed drawing is at Attachment E This drawing provides added hold down detail for vertically acting thrust blocks drawn from the SEQ drawing. The intention is for the drawing to cover all design aspects up to 200mm dia. Equal to or over 200mm dia will require specialist reinforcement design for the concrete hold down block. Anthony suggested that protection between strap and pipe maybe required. SEQ standard drawings shows 3mm thick insertion rubber between straps and bend. Agreed that this should be added to drawing W-041. <u>Resolution</u> CMDG-W-041 Ver F approved for upload to the website once rubber insert note is added <u>Action By</u> MCE	MCE
22.02.09	Table D05.04.01 Design AEP's <ul style="list-style-type: none"> <u>This item has been presented again due to differing opinions that emerged post meeting regarding whether the table should be deleted from CMDG.</u> The way this table is presented in CMDG at the moment it implies that ARI 20 for minor roads is acceptable for the major system (the required standard is AEP 1% or ARI 100). I think this has come about because the QUDM Table covers minor system flows only and the CMDG table attempted to cover major and minor systems. The relevant QUDM Table 7.3.1 Follows. 	

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	<div><p>Table 7.3.1 – Recommended design average recurrence intervals (ARI) and annual exceedance probabilities (AEP) for the minor system</p><table><tr><th colspan="2">Development category^[1]</th><th>ARI (yrs)</th><th>AEP</th></tr><tr><td colspan="2">Central business and commercial</td><td>10</td><td>10%</td></tr><tr><td colspan="2">Industrial</td><td>2</td><td>39%</td></tr><tr><td colspan="2">Urban residential high density – greater than 20 dwelling units/ha</td><td>10</td><td>10%</td></tr><tr><td colspan="2">Urban residential low density – 6 to 20 dwelling units/ha</td><td>2</td><td>39%</td></tr><tr><td colspan="2">Rural residential – 2 to 5 dwelling units/ha</td><td>2</td><td>39%</td></tr><tr><td colspan="2">Open space – parks, etc.</td><td>1</td><td>63%</td></tr><tr><td rowspan="2">Major road</td><td>Kerb and channel flow</td><td>10^[2]</td><td>10%</td></tr><tr><td>Cross drainage (culverts)</td><td>50^[3]</td><td>2%</td></tr><tr><td rowspan="2">Minor road</td><td>Kerb and channel flow</td><td>[4]</td><td>[4]</td></tr><tr><td>Cross drainage (culverts)</td><td>10^[3]</td><td>10%</td></tr></table><p>Notes:</p><p>[1] The terms used in this table are described in the Glossary (Chapter 13) and Table 7.3.3.</p><p>[2] The design AEP for the minor drainage system in a major road must be that indicated for the major road, not that for the development category of the adjacent area.</p><p>[3] Refer to discussion in Section 7.3.7.</p><p>[4] Refer to relevant development category (above).</p></div> <div><p>The relevant table in CMDG looks like this at the moment</p><p>Table D05.04.1 - Design Annual Exceedance Probabilities</p><table><tr><th colspan="2" rowspan="2">Development Category</th><th colspan="2">Major System</th><th colspan="2">Minor System</th></tr><tr><th>ARI (yrs)</th><th>AEP (%)</th><th>ARI (yrs)</th><th>AEP (%)</th></tr><tr><td colspan="2">Central Business & Commercial</td><td>100</td><td>1</td><td>10</td><td>10</td></tr><tr><td colspan="2">Industrial</td><td>100</td><td>1</td><td>2</td><td>39</td></tr><tr><td colspan="2">Urban Residential (High Density – greater than 20 dwelling units/ha)</td><td>100</td><td>1</td><td>10</td><td>10</td></tr><tr><td colspan="2">Urban Residential (Low Density – 6 & up to 20 dwelling units/ha)</td><td>100</td><td>1</td><td>2</td><td>39</td></tr><tr><td colspan="2">Rural Residential – 2 to 5 dwelling units/ha</td><td>100</td><td>1</td><td>2</td><td>39</td></tr><tr><td colspan="2">Open Space – Parks, etc.</td><td>100</td><td>1</td><td>1</td><td>63</td></tr><tr><td rowspan="2">Major Collector / Distributor and higher</td><td>Kerb and channel flow</td><td>100</td><td>1</td><td>10</td><td>10</td></tr><tr><td>Cross drainage (culverts)</td><td>100</td><td>1</td><td>50</td><td>2</td></tr><tr><td rowspan="2">Minor road</td><td>Kerb and channel flow</td><td>20</td><td>5</td><td></td><td></td></tr><tr><td>Cross drainage (culverts)</td><td>20</td><td>5</td><td>10</td><td>10</td></tr></table><p>Notes:</p><ol style="list-style-type: none">The design AEP for the minor drainage system in a major road shall be that indicated for the major road, not that for the Development Category of the adjacent area.Cross drainages should be designed to accept the flow for the minor system AEP shown. In addition, the designer must ensure that the major system backwater does not enter properties upstream. If upstream properties are at a relatively low elevation, it may be necessary to install culverts of capacity greater than that for the minor system AEP design storm to ensure flooding of upstream properties does not occur. In addition, the downstream face of the causeway embankment may need protection where overtopping is likely to occur.The terms used in this table are described in the QUDM Glossary and/or Table 7.3.3 of QUDM 2013.Council specific or refer to development category.VDg, flow depth and width limitations are applicable in accordance with QUDM.</div> <div><p>Recent changes to Minor AEP's agreed by the Councils have in fact resulted in complete agreement with QUDM. It is therefore considered the Design AEP table is superfluous and should be deleted.</p></div>	Development category ^[1]		ARI (yrs)	AEP	Central business and commercial		10	10%	Industrial		2	39%	Urban residential high density – greater than 20 dwelling units/ha		10	10%	Urban residential low density – 6 to 20 dwelling units/ha		2	39%	Rural residential – 2 to 5 dwelling units/ha		2	39%	Open space – parks, etc.		1	63%	Major road	Kerb and channel flow	10 ^[2]	10%	Cross drainage (culverts)	50 ^[3]	2%	Minor road	Kerb and channel flow	[4]	[4]	Cross drainage (culverts)	10 ^[3]	10%	Development Category		Major System		Minor System		ARI (yrs)	AEP (%)	ARI (yrs)	AEP (%)	Central Business & Commercial		100	1	10	10	Industrial		100	1	2	39	Urban Residential (High Density – greater than 20 dwelling units/ha)		100	1	10	10	Urban Residential (Low Density – 6 & up to 20 dwelling units/ha)		100	1	2	39	Rural Residential – 2 to 5 dwelling units/ha		100	1	2	39	Open Space – Parks, etc.		100	1	1	63	Major Collector / Distributor and higher	Kerb and channel flow	100	1	10	10	Cross drainage (culverts)	100	1	50	2	Minor road	Kerb and channel flow	20	5			Cross drainage (culverts)	20	5	10	10	
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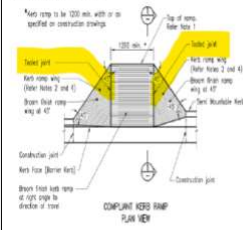
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	<p>Alternatively the table may be retained with the Major System column deleted (and note references will also need to be amended / clarified)</p> <p>It is also noted that in preparing the D1 Urban road tables Councils should be ensuring consistency with the QUDM Table for designated flood immunities for each road hierarchy. If there are any differences these may need to be highlighted in Table D05.04.01.</p> <p><u>Resolution</u></p> <p>Clause D05.04.02 and Table D05.04.1 be amended as follows:</p> <ul style="list-style-type: none"> • Include QUDM Table 7.3.1 as Table D05.04.1 • Include QUDM Table 7.3.2 as Table D05.04.2 <p>Include text/ note: Refer to D1 for road hierarchy.</p> <p>(Also correct <i>Error! Reference source not found</i> throughout the document)</p> <p><u>Action By</u> MCE</p>	MCE
22.02.10	<p><i>Not discussed</i></p> <p>D5 Stormwater Design – Template for SWMP</p> <ul style="list-style-type: none"> • Previously an agenda item 16.5 (Meeting did not proceed) • GRC have provided a template Attachment F for consideration and discussion. • Clause D05.21 currently reads as follows. <p>D05.21. SITE BASED STORMWATER MANAGEMENT PLAN (SWMP) D05.21.01. Where required by Council, the developer is obliged to submit Site Based Stormwater Management Plan addressing Quantity and Quality aspects of stormwater management.</p> <p><u>Suggested Resolution</u></p> <p>That the Stormwater template be included as Annexure D05A and Clause D05.21 be amended to reference the new Annexure.</p> <p><u>Action By</u> MCE</p>	
22.02.11	<p>CMDG-S-030 Type C Vertical H.C.</p> <ul style="list-style-type: none"> • <u>RRC Comments from Mohit</u> - CMDG-S-030 Type C Vertical H.C. - Heavy duty fibreglass coated junctions are made from a 45' junction and a 45' bend. This places the property connection directly above the sewer main. A standard (less than 2 metres deep junction is made up from a 45' junction and a 60' bend this offsets the property connection to one side (as it's drawn in CMDG-S-030). Is there any reason the standard connection cannot be directly above the main like a heavy duty junction. 	

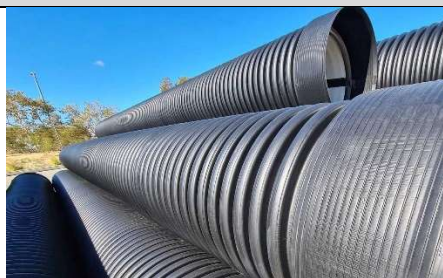


Item	Item	Action By
	 <p>ELEVATION TYPE C VERTICAL H.C. BRANCH FINISHED DETAIL (Vertical drop 2100 and above)</p> <ul style="list-style-type: none"> The standard connection could be above the main but the concrete support under the bend off the main would mean the main would need to be encased in concrete to comply. For discussion – drawing extract above for clarity. <p><u>Resolution</u> General acceptance regarding the use of connections directly above main. Discussion regarding removal of the house drain and Y branch in the Pre Site Development details. Agreement reached that it should be removed. Jamie (RRC) to provide markups to drawing CMDG-S-030 for MCE to complete.</p> <p><u>Action By</u> RRC/ MCE</p>	RRC/ MCE
22.02.12	<p>CMDG-S-026 Lamphole Details</p> <ul style="list-style-type: none"> <u>RRC Comments from Mohit - CMDG-S-026 Lamphole Details.</u> Why is a Lamphole limited to a maximum of 1200mm? A Lamphole is for camera and clearing access. It is unknown why the depth was limited to 1200mm. Depths over 2100 would require a GRP heavy duty junction. For discussion – drawing extract follows. 	

Item	Item	Action By
	 <p>Resolution</p> <p>Acceptance that 1200 (max) deep lamphole is desirable to limit sewer depth and aid cleanout. Agreement reached to add “Desirable” to the dimension on the detail above (no additional notes are required).</p> <p>Action By</p> <p>MCE</p>	MCE
22.02.13	<p>D1 Geometric Road Design – Urban Road Tables</p> <ul style="list-style-type: none"> • Previous agenda item - Meeting 15.5 • Only 1 D1 Urban Roads table has been received at the time of preparing this agenda so it will not be possible to finalise the document this meeting. However, there are a number of matters to discuss regarding the format and inclusions of the new D1 as well as consultation requirements. The following items are put forward for discussion <ul style="list-style-type: none"> ○ Use of watermark with Council name on individual tables ○ The lighting categories have been amended following a review of AS1158 2020. Recommend that table D1.19.1 can be removed from D1 now (its noted that the new Tables also address lighting requirements; ○ The road hierarchies described at the start of D1 are not consistent with all Councils – recommend that this section be removed and replaced by a reference to the objectives and strategies in the IPWEAQ Street Design Manual except where modified by each Councils D1 Urban Roads Table; ○ Do we include generic cross sections in D1 for reference? There are 6 urban road cross sections in the document at the moment – 	

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	<p>however, terminology/hierarchy is not consistent with the new roads tables for each Council. It has been discussed previously to remove the cross sections and restore them as Standard Drawings – for discussion.</p> <ul style="list-style-type: none"> ○ It is recommended that the document priority order be amended as follows to capture recent relevant publications: <ul style="list-style-type: none"> ▪ IPWEAQ Street Design Manual ▪ Model Code for Neighbourhood Design; ▪ Queensland Streets ▪ Austroads Publications ▪ TMR Publications ▪ Australian Standards ○ A draft D1 (and much abbreviated) D1 document is to be produced to amend references to IPWEAQ Street Design Manual in lieu of Queensland Streets. Content will be removed where it is now covered by the additional information in the New D1 Urban Roads tables. A draft D1 Ver 10 is at Attachment J. This attachment has changes highlighted and quite a comments on items where decisions need to be made. It is suggested that everyone review this document and be familiar with the IPWEAQ Street design manual so that decisions can be made on the new document layout and content. ○ Is the intention to seek feedback from industry before adoption? If so the format and timing of this consultation needs to be discussed to ensure a uniform approach from the group. <p><u>Resolution</u></p> <ul style="list-style-type: none"> • Agreement to use Council watermarks on individual tables • Scott to send notes regarding lighting specification changes to D1 (M15.18) • Definitions of road hierarchies to be consistent with Street Design Manual and across councils. • Agreement to remove standard cross sections and recreate as standard drawings • Agreement that document order of priority set out above is ok. • Councils to update D1 tables to new format (ideally prior to next meeting). <i>Priority 1.</i> • Rural and Urban tables in appendix. All councils to complete revised rural tables as per urban tables. <i>Priority 2.</i> • <i>RRC to proceed separately with industry consultation regarding proposed significant changes to D1. This will initially involve an email to industry (2 weeks to respond) with a copy of the new RRC Urban Roads Table and explanation of the reasoning behind the proposed changes.</i> <p><u>Action By</u> MCE and all Councils</p>	
22.02.14	<p><i>Not discussed</i></p> <p>D1 Geometric Road Design – Rural Heavy Industry Access Road</p> <ul style="list-style-type: none"> • Previous agenda item - Meeting 15.7. The following resolution was made. 	

Item	Item	Action By
	<p>Question raised by IRC for the consideration of the inclusion of a "Rural Heavy Industry Access Road" (Mine Access) or similar wording with appropriate associated elements within the Road hierarchy.</p> <ul style="list-style-type: none"> - GRC to provide the TMR drawing for Industrial Collector that was presented in the meeting. This will be distributed to the other council's. See attachment 18 - Street Type to be added to table D2.08.1 "Resource Access Road" - IRC to provide proposal for inclusion into CMDG. - SD1807 provided for information - GRC Standard Drawings attached for information Refer Att 19, 20, 21 & 22 <ul style="list-style-type: none"> • Need to discuss the status of this item and any proposed changes to D1 and D2. <p><u>Suggested Resolution</u></p> <p>Nil</p> <p><u>Action By</u> MCE</p>	
22.02.15	<p><i>Not discussed</i></p> <p>D1 Geometric Road Design – Solar Lighting</p> <ul style="list-style-type: none"> • Meeting 15.18. The previous resolution was: <p>Recommended actions are:</p> <ul style="list-style-type: none"> • Amend D01.19 Lighting (Urban) to include GRC Policy items noted as relevant to urban • Amend D01.25 Lighting (Rural) to include GRC Policy items noted as relevant to rural • Development of a Purchase Specification for Solar Lights. <p><i>Cardno to send out the policy split into "Rural" & "Urban" for review and wordsmithing by all councils. Ideally this will be able to be added to D01.19 & D01.25. It is understood a point of difference may be required for incorporation into the document.</i></p> <ul style="list-style-type: none"> • Need to discuss the status of this item and any proposed changes to D1. <p><u>Suggested Resolution</u></p> <p>Nil</p> <p><u>Action By</u> MCE</p>	
22.02.16	<p><i>Not discussed</i></p> <p>CMDG-R-050</p> <ul style="list-style-type: none"> • <u>Comments from Dev at LSC.</u> We have received recent feedback from TMR emphasising the need for "tooled joints" in the location highlighted. According to TMR, the sharp transitions at these joints serve as wayfinding features for the visually impaired. Although these joints appear as lines on the CMDG standard drawing R-50, there is no specific reference to their inclusion 	

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	4-2021	CMDG-R-050 E	<p>Kerb ramp drawings do not specify the provision of a 'tooled joint' at the ramp wing transition.</p> <p>According to TMR, the sharp transitions at these joints serve as way-finding features for the visually impaired.</p>	<p>Update the standard drawings to include the detail as highlighted from TMR SD 1446 (attached)</p>  <p>Without this detail, some ramps have been constructed with rounded transitions and have come under scrutiny during TMR funded projects.</p> <p>Comments from Manager ES: Looks good to me.</p> <p>Comments from C&M: We agree with the amendment request to implement a uniform kerb ramp standard.</p> <p>Comments from Waste: No comment</p> <p>Comments from Water/Sewer: No comments or objections.</p> <p>Comments from Infra Design: I have reviewed this amendment with Michael. Happy to update drawing to suit and proceed.</p>	
	<ul style="list-style-type: none"> Refer Attachment G for marked up changes to CMDG-R-050 <p><u>Suggested Resolution</u></p> <p>Marked up changes to CMDG-R-050 relating to tool joints on kerb ramps be approved. New version F to be uploaded to website.</p> <p><u>Action By</u> MCE</p>				
22.02.17	<p><i>Not discussed</i></p> <p>D5 – Use of corrugated polypropylene drainage pipes</p> <ul style="list-style-type: none"> LSC Is suggesting use of corrugated polypropylene drainage pipes. 				
	6-2021	CMDG-D, CMDG-D5, C221.		<p>Addition of corrugated polypropylene drainage pipes.</p> <p>Twin wall corrugated polypropylene drainage pipes offer many benefits compared to reinforced concrete pipes. Benefits include:</p> <ul style="list-style-type: none"> • Excellent corrosion and chemical resistance • Can be cut to length with no detriment corrosion resistance • Excellent rubber ring joint sealing system • Smooth bore providing optimum hydraulic performance • Available in 6 metre lengths • Lighter to handle with a lower risk ratio than those handling the pipes • Smaller diameter pipes can be manually handled • Lower transport costs • Large and diverse range of fitting available <p>1.1 CMDG-D, CMDG-D5, C221. Addition of corrugated polypropylene drainage pipes.</p>	
	<ul style="list-style-type: none"> C221 Section C221.04 mentions FRC and RCP pipes but not Plastic. Current Section D05.18 reads as follows. <p>D05.18. PIPE MATERIAL</p> <p>D05.18.01. The following pipe materials are approved subject to minimum cover and installation requirements stated by the manufacturer:</p> <ul style="list-style-type: none"> • Steel reinforced concrete pipe and culverts to AS4058; and • Fibre Reinforced pipes to AS4139.; and • Other pipes will be considered subject to individual Council approval. <p>D05.18.02. All joints between pipes shall be Rubber Ring Joints (RRJ).</p> <ul style="list-style-type: none"> It is noted that Hydra Storm supplies pipe as follows: <ul style="list-style-type: none"> ○ Manufactured in accordance to AS – NZS 5065 ○ Available from Diameter Nominal (DN) 225mm to 600mm ○ Manufactured from recycled HDPE 				

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	<p><u>Suggested Resolution</u></p> <p>For discussion</p> <p><u>Action By</u> MCE</p>									
22.02.18	<p><i>Not discussed</i></p> <p>CMDG-D-033 Use of Precast Square roofwater pits</p> <ul style="list-style-type: none">LSC propose use of proprietary precast square roofwater pits.Note 5 to CMDG-D-033 permits use of precast chambers but Note 6 says covers and frames must be circular <table><tr><td>2-2021</td><td>CMDG Request for amendment - <u>Roofwater</u> inspection chambers CMDG-D-0(D)</td><td><u>Roofwater</u> inspection chambers CMDG-D-0(D)</td><td>change drawing to include drawing of 600x600 precast pit with galvanised lid.</td><td><p>Comments from Waste: Nil input is required.</p><p>Comments from Water: Nil comments as drawing <u>is</u> related to stormwater drainage access chamber/sewerage access chamber.</p><p>Comments from Infra Design: <u>Roofwater</u> inspection chamber drawing show a square pit detail (600x600 Field type) as this is the <u>most commonly used</u> site.</p><p>Comments from Infra Planning: No comment provided</p><p>Comments from Infra DET: No comment provided</p><p>Comments from Facilities – Assets: No comment provided</p><p>Comments from Construction / Maintenance Hi Ellen, I support the proposal as it will be easier to procure these products. If you have any queries regarding the proposal please contact me. Thanks. Darren Hines</p></td></tr></table> <div></div> <p>Rocla pit left – Holcim pit right</p> <p><u>Suggested Resolution</u></p> <p>For discussion</p> <p><u>Action By</u> MCE</p>				2-2021	CMDG Request for amendment - <u>Roofwater</u> inspection chambers CMDG-D-0(D)	<u>Roofwater</u> inspection chambers CMDG-D-0(D)	change drawing to include drawing of 600x600 precast pit with galvanised lid.	<p>Comments from Waste: Nil input is required.</p> <p>Comments from Water: Nil comments as drawing <u>is</u> related to stormwater drainage access chamber/sewerage access chamber.</p> <p>Comments from Infra Design: <u>Roofwater</u> inspection chamber drawing show a square pit detail (600x600 Field type) as this is the <u>most commonly used</u> site.</p> <p>Comments from Infra Planning: No comment provided</p> <p>Comments from Infra DET: No comment provided</p> <p>Comments from Facilities – Assets: No comment provided</p> <p>Comments from Construction / Maintenance Hi Ellen, I support the proposal as it will be easier to procure these products. If you have any queries regarding the proposal please contact me. Thanks. Darren Hines</p>	
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22.02.19	<p><i>Not discussed</i></p> <p>Ongoing work / future agenda items</p> <ul style="list-style-type: none"> The following is a list of possible agenda items drawn from what is partially completed or actioned work over the last few years. The intention of this item is to discuss prioritisation of these items with a view to preparing the next agenda as well as updates on any work completed where individual Councils were progressing. <ol style="list-style-type: none"> D2 Pavement Design – amend APRG Report 21 as outdated reference and LSC to review design procedure and references. (M15.6, 15.8 and 16.12) (Note M15.6 regarding 150vpd threshold for 2 coat seal has been actioned) D9 Cycleway and Pathway Design revision (M15.15) Draft underbore detail (item M15.16) PS5 PVC Pressure Pipe (Poly services to be PN16 not PN 12) (M16.9) C273 Landscaping – amend hydromulch spec (M16.11) PS26 Marker Posts – (M15.20) PS28 Gaskets – (M15.21) – (Resolved will action at next website load up) C242 Pavements – Amend references as advised by GRC (M15.22) – (Resolved will action at next website load up) D10 Landscape Design Parks standard drawings D6 Site regrading – consider retaining wall issue <p><u>Suggested Resolution</u> Prioritisation of the above potential agenda items</p> <p><u>Action By</u> MCE</p>	
22.02.20	<p>Next meeting</p> <p>Next meeting to be via Teams on 1st April at 11am</p>	