

UDC Design Audit Checklist



- Project Type UDC Development
 Public Lighting (Only)

Ergon Energy Work Request	
Developer / Public Body	
Design Contractor Name	
Project Name	
Stage No.	
Project Location	
Design Version No.	
Date Started	
Date Completed	
Overall Audit Result	Compliant <input type="checkbox"/> Not Compliant <input type="checkbox"/>
Comments added at rear	Yes <input type="checkbox"/> No <input type="checkbox"/>

Time taken to Audit Design		Hours
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UDC Design Audit Checklist



1.0 DOCUMENTATION AND APPROVALS						
No	Action Item	Cat No	Compliance			Results / Comments
			Yes	No	N/A	
1.1	Electronic copy of detailed design in dwg format is preferred	4				
1.2	Ergon Energy's parameters advice incorporated into the design provided	5				
1.3	Earthing Identified - CMEN preferred	16				
1.4	Non-standard Material approval documentation (If required)	6				
1.5	Low Voltage Drop Calculations	16				
1.6	Certificate of Electrical Reticulation Design including sign-off by RPEQ Electrical	7				
1.7	Certificate of Lighting Design including sign-off by RPEQ	7				
1.8	Non-standard Street Lighting Indemnity Form (If required)	7				
1.9	Registered Easement Documents (Available or have written confirmation they will be available with the Cert of Completion) (Note to be added in Ellipse)	6				
1.10	Conformation approval has been given by the local authority to work in a Publicly Controlled Place	5				
1.11	Council Development Application	5				
1.12	Council statutory approvals relevant to the region (Available or have written confirmation they will be available with the Cert of Completion) (Note to be added in Ellipse)	5				
1.13	Council/DMR Public lighting design approval. (Available or have written confirmation Council/DMR approval will be available with the Cert of Completion. (Note to be added in Ellipse)	6				
1.14	Environmental approvals and permits determined through Developer consultation with relevant authorities	3				
1.15	Evidence of Telecommunications provider notifications.	5				
1.16	DNR Statutory approvals (Available or have written confirmation they will be available with the Cert of Completion) (Note to be added in Ellipse)	6				
1.17	Clearing approvals obtained	5				
1.18	Wayleaves if required	6				
1.19	Communication (Timely and Clear)	8				

2.0 PUBLIC LIGHTING						
No	Action Item	Cat No	Compliance			Results / Comments
			Yes	No	N/A	
	Cast In Situ <input type="checkbox"/> Pre-cast <input type="checkbox"/>					
2.1	Correct alignment and location (Location is subject to Council approved tolerances)	14				
2.2	Correct foundation specified – major or minor	17				
2.3	Connected to LV Pillar	8				
2.4	Streetlight Fuse at LV Pillar	13				
2.5	Use of pit for looping pole-to-pole	15				
2.6	Ergon standard lighting Equipment used	15				
2.7	Correct cable	15				

3.0 PADMOUNTED SUBSTATIONS						
No	Action Item	Cat No	Compliance			Results / Comments
			Yes	No	N/A	
3.1	Correct orientation and within site	1				
3.2	Correct foundation - uni culvert, piers or concrete block	13				
3.3	Appropriate kVA rating – Compliant to design requirements	8				
3.5	EMF guidelines addressed	9				

4.0 CONDUITING						
No	Action Item	Cat No	Compliance			Results / Comments
			Yes	No	N/A	
4.1	Within Local Council approved alignment	4				
4.2	Correct number	3				
4.3	Correct conduit ducting arrangement	4				
4.4	Compliant with Ergon Energy size standards	13				
4.5	Hard cover protection requirements as a Note in the schedule	13				
4.6	ECM at conduit ends for future extension	9				

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5.0 LOW VOLTAGE SYSTEM						
No	Action Item	Cat No	Compliance			Results / Comments
			Yes	No	N/A	
5.1	LV pillars	12				
5.2	MEN as per design standard (Minimum)	10				
5.3	Ergon Standard LV Cables used	15				
5.4	LV schematic	14				
5.5	LV pulling pit location (If required)	12				
5.6	LV cable terminations	10				

6.0 HIGH VOLTAGE SYSTEM						
No	Action Item	Cat No	Compliance			Results / Comments
			Yes	No	N/A	
6.1	HV Terminations	11				
6.2	HV Joints	10				
6.3	HV Pulling pit location	12				
6.4	HV Pulling tension indicated on Construction Issue Plan	5				
6.5	Ferro resonance addressed	9				
6.6	Ergon standard cables used	15				
6.7	HV line diagram	9				
6.8	ECM at Joint locations	9				
6.9	HV Switch and cable connection diagram	5				

7.0 STANDARDS						
No	Action Item	Cat No	Compliance			Results / Comments
			Yes	No	N/A	
7.1	Compliant with Ergon Energy Specifications RSC06 RSC07, RSC08, RSC10, RSD01, RSM01 & RSM02	16				
7.2	Compliant with Ergon Energy Distribution Design Manual	16				
7.3	Compliant with Ergon Energy Underground Construction Manual	16				
7.4	Compliant with Ergon Energy Lighting Construction Manual	16				

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General Comments.

ACTION PLAN				
No	Action	Responsibility	Target Date	Sign on completion

Auditing Officer Name: _____

Auditing Officer Signature: _____

Date: _____