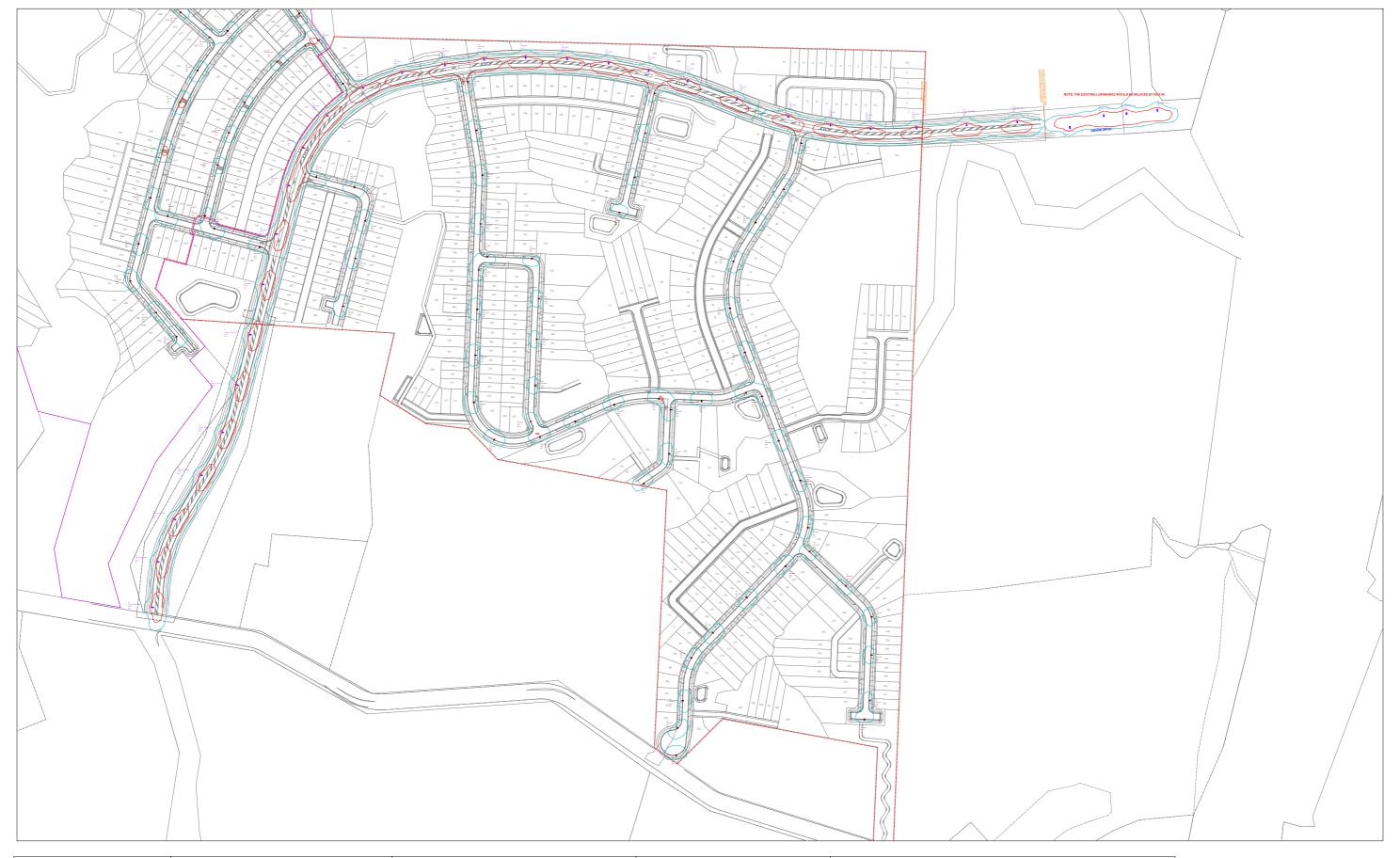


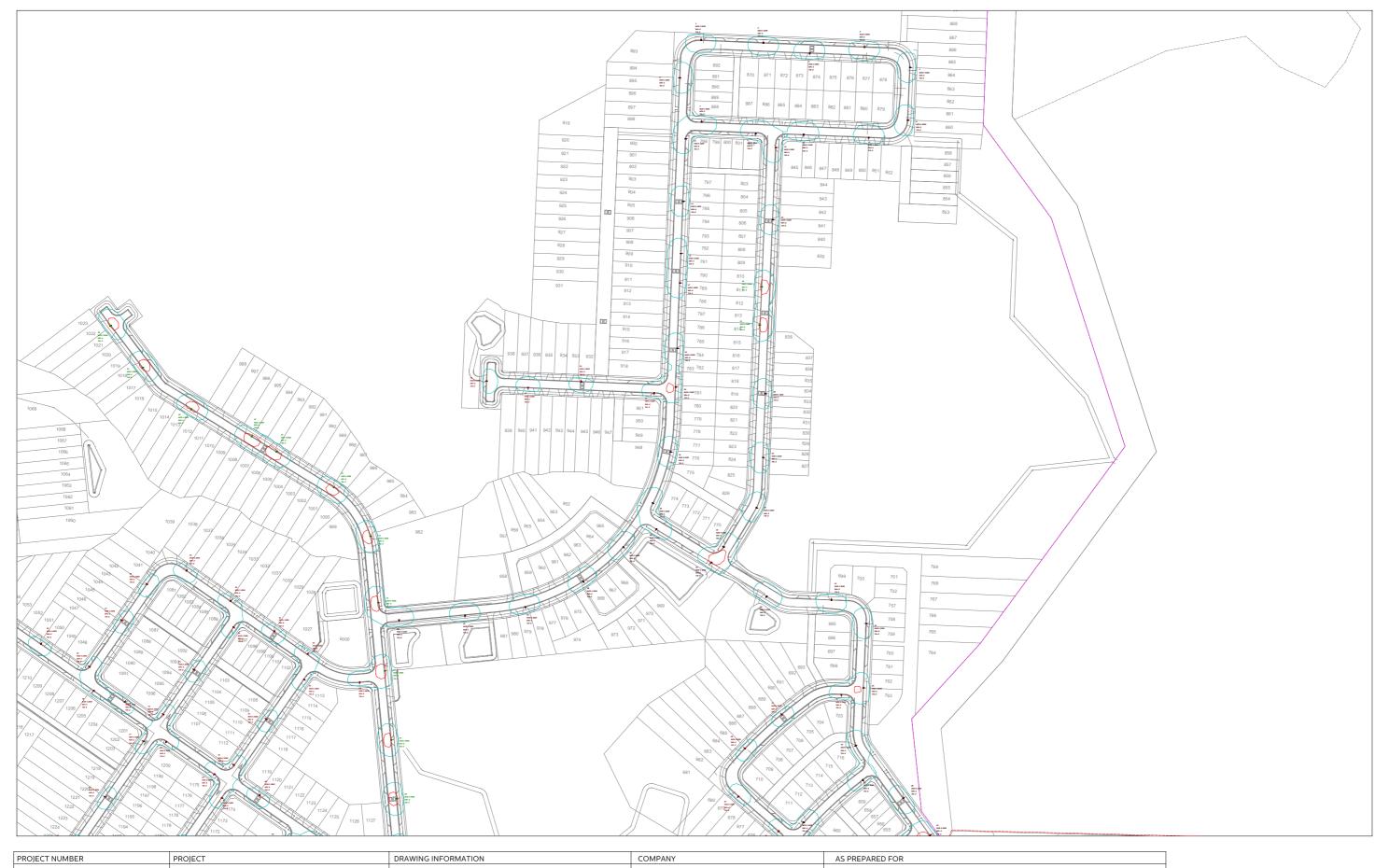
PROJECT NUMBER		PROJECT	DRAWING INFORMATION		COMPANY	Д	AS PREPARED FOR	
9851		DELMORE OVERALL OREWA	ROADWAY LIGHT - ISOLUX PLOTS	ROADWAY LIGHTING PLAN - ISOLUX PLOTS		RAWA PLACE O GA 3171		MCKENZIE & CO
DRAWING NO.:	REVISION:	OREWA	Scale : 1 : 6000 @ A3	DESIGNED BY: SF	AUCKLAND 1061 TAURANGA 3171 NZ FREEPHONE 0800 63 65 67			MOREITEIL & CO.
1	-		Date:26-June-2025	CHECKED BY: /	www.ibexlighting.com	.	1 14 /4 1111	





PROJECT NUMBER	PROJECT	DRAWING INFORMATION	COMPANY	AS PREPARED FOR	
9851		ROADWAY LIGHTING PLAN - ISOLUX PLOTS	IBEX LIGHTING L1, THE PRECINCT 2 MATARAWA PLACE 40 ONEHUNGA MALL TAURIKO AUCKLAND 1061 TAURANGA 3171	MCKENZIE & CO.	
DRAWING NO.: REVISION:		Scale : 1 : 3500 @ A3 DESIGNED BY: SF Date: 26-June-2025 CHECKED BY: /	NZ FREEPHONE 0800 63 65 67 www.ibexlighting.com	MIII MCKENZIE & CO.	





IBEX LIGHTING DELMORE **ROADWAY LIGHTING PLAN** 9851 L1, THE PRECINCT 40 ONEHUNGA MALL AUCKLAND 1061 2 MATARAWA PLACE TAURIKO TAURANGA 3171 **OVERALL** MCKENZIE & CO. - ISOLUX PLOTS **OREWA** DRAWING NO.: Scale : 1 : 2500 @ A3 NZ FREEPHONE 0800 63 65 67 www.ibexlighting.com DESIGNED BY: SF 3 Date:26-June-2025 CHECKED BY: /





PROJECT NUMBER		PROJECT	DRAWING INFORMATION		COMPANY		AS PREPARED FOR	
9851		DELMORE	ROADWAY LIGHTING PLAN - ISOLUX PLOTS		IBEX LIGHTING L1, THE PRECINCT 2 MATARAWA PLACE 40 ONEHUNGA MALL TAURIKO AUCKLAND 1061 TAURANGA 3171			
		OVERALL OREWA						MCKENZIE & CO
DRAWING NO.:	REVISION:	OREWA	Scale : 1 : 4000 @ A3	DESIGNED BY: SF	NZ FREEPHONE 08			MCKENZIE & CO.
4	-		Date:26-June-2025 CHECKED BY: /		www.ibexlighting.com		1 14/4/1111	



Luminaire S	chedule							
Project: 09	- Luminai	res - Proposed						
Symbol Qty Label Mounting Height Outreach Length Lum. Tilt Angle								
	90	NOX S 2000	6 metres	1 metre	0 degrees			
	91	NOX S 3200	6 metres	1 metre	0 degrees			
-	29	NOX S 3900	6 metres	1 metre	0 degrees			
	3	NOX M 7800	8 metres	1 metre	0 degrees			
	19	NOX M 12000	10 metres	2 metres	0 degrees			
	4	NOX M 12000 on Ex Pole	8 metres	1 metre	0 degrees			
	3	NOX MC4 5200	8 metres	1 metre	0 degrees			

	Luminaire Schedule								
	Project: 10 - Luminaires - Existing & Future								
Ī	Symbol	Qty	Label	Mounting Height	Outreach Length	Lum. Tilt Angle			
	-	9	Indicative - NOX M 12000	10 metres	2 metres	0 degrees			

Luminaire Details	"NOX S 2000"	"NOX S 3200"	"NOX S 3900"	
Manufacturer and	NSS-08-020-740-P1	NSS-08-032-740-P1	NSS-16-039-740-P1	
Product Name				
Lamp type and Rating	LED 14.0W	LED 23.2W	LED 26.6W	
Luminous flux	2031 Lumens (4000K)	3209 Lumens (4000K)	3907 Lumens (4000K)	
Origin of Photometric Data	NSS-08-014-740-P1	NSS-08-014-740-P1	NSS-16-027-740-P1	
Upward Waste Light Ratio	0.0% at 0 degree tilt	0.0% at 0 degree tilt	0.0% at 0 degree tilt	
Maintenance factor used	0.80	0.80	0.80	
Peak Luminous Intensity (Glare): 60-80 degrees	953 Candela	1505 Candela	1804 Candela	
Peak Luminous Intensity (Glare) : 80 degrees	263 Candela	398 Candela	396 Candela	
Luminaire Details	"NOX S 2000"	"NOX M 12000"	"NOX MC4 5200"	
Manufacturer and	NMS-32-078-740-V2	NMS-32-122-740-V2	NMS-32-052-740-C4	
Product Name				
Lamp type and Rating	LED 51.4W	LED 86.8W	LED 34.2W	
Luminous flux	7840 Lumens (4000K)	12183 Lumens (4000K)	5207 Lumens (4000K)	
Origin of Photometric Data	NMS-32-101-740-V2	NMS-32-101-740-V2	NMS-32-097-740-C4	
Upward Waste Light Ratio	0.0% at 0 degree tilt	0.0% at 0 degree tilt	0.0% at 0 degree tilt	
Maintenance factor used	0.80	0.80	0.80	
Peak Luminous Intensity (Glare) : 60-80 degrees	5279.4 Candela	8204.4 Candela	4070.2 Candela	
Peak Luminous Intensity (Glare) : 80 degrees	2470 Candela	3838.5 Candela	458.0 Candela	

GENERAL NOTES:

- 1. These lighting calculations are based upon the Initial Lamp Lumens as described in the product information table(s) and a Maintenance Factor calculated in accordance with AS/NZS 1158.
- 2. Isolux plots show the Illuminance value at Ground Level.
- 3. The Mounting Height of the Luminaire is indicated on the drawing and the Tilt (upcast) angle is zero degrees unless indicated on the drawing.
- 4. These lighting calculations are subject to the accuracies and tolerances in accordance with AS/NZS 3827.1:1998 and AS/NZS 3827.2:1998
- 5. All work shall conform to the requirements the local energy supplier and to AS/NZS 3008, AS/NZS 1158, and the Electrical (Safety) Regulations 2010.
- 6. Should there be a clash between a column position and underground services, the column position may be altered by upto 1m while retaining the general pole arrangement. This should be confirmed with the Engineer prior to final installation.

PROJECT NOTES:

- 1. Final pole locations have been agreed to by the client.
- 2. Lighting from existing poles and luminaires adjacent to the scope of work have been taken into account where details are known.
- 3. For calculation grids and calculation values, refer to the .dwg file of this project.
- 4. A minimum ten (10) year warranty from the date of on site installation shall be provided for the luminaire and electronic control gear.
- 5. Each luminaire shall be supplied with a 7-pin NEMA Socket compliant with ANSI C136.41:2013.
- 6. New LED luminaires shall be supplied with electronic DALI dimmable control
- 7. The lighting standard for each road is documented in the appropriate 'Calculation Summary' table on this sheet.

INSTALLATION NOTES

- 1. Final pole locations are to be confirmed on site prior to installation.
- 2. Columns shall be positioned 1.0m behind the kerb unless otherwise stated or advised.
- 3. Allowable tolerances of the column location are:
 - a. 0.5m parallel to the carriageway
 - b. 0.2m perpendicular to the carriageway
 - c. 0.2m vertically

Should the final pole location be outside the permitted tolerance, a further lighting design may be required.

- 4. Mounting heights are to be measured with respect to the luminaire above the
- 5. The contractor shall be responsible for the fixing of outreaches taking into account work on or near existing services. The contractor shall liaise with the appropriate service provider in relation to working on or near services, and shall give a suitable notice period.
- 6. All metal columns, outreaches, and luminaires are to be effectively Earthed. Earthing is to be designed to conform to the requirments of the NZ Electrical (Safety) Regulations and AS/NZS 3000:2018.
- 7. Wiring shall be in accordance with AS/NZS 3000 and AS/NZS 3008:1.2
- 8. The internal wiring between the terminal blocks and the luminaire shall be circular 2C 2.5sq.mm Neutral Screen cable

Design Revision Summary						
Rev.	Date	Comment				
-	26/05/25	Original Design				

PROJECT NUMBER 9851		PROJECT	DRAWING INFORMATION	DRAWING INFORMATION	
		DELMORE OVERALL OREWA	1101121111121	ROADWAY LIGHTING PLAN - ISOLUX PLOTS	
DRAWING NO.:	AWING NO.: REVISION: OREWA		Scale: n/a	DESIGNED BY: SF	AUCKLAND NZ FR
5	-		Date:26-June-2025	CHECKED BY: /	ww

AS PREPARED FOR IBEX LIGHTING

L1, THE PRECINCT 40 ONEHUNGA MALL AUCKLAND 1061

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