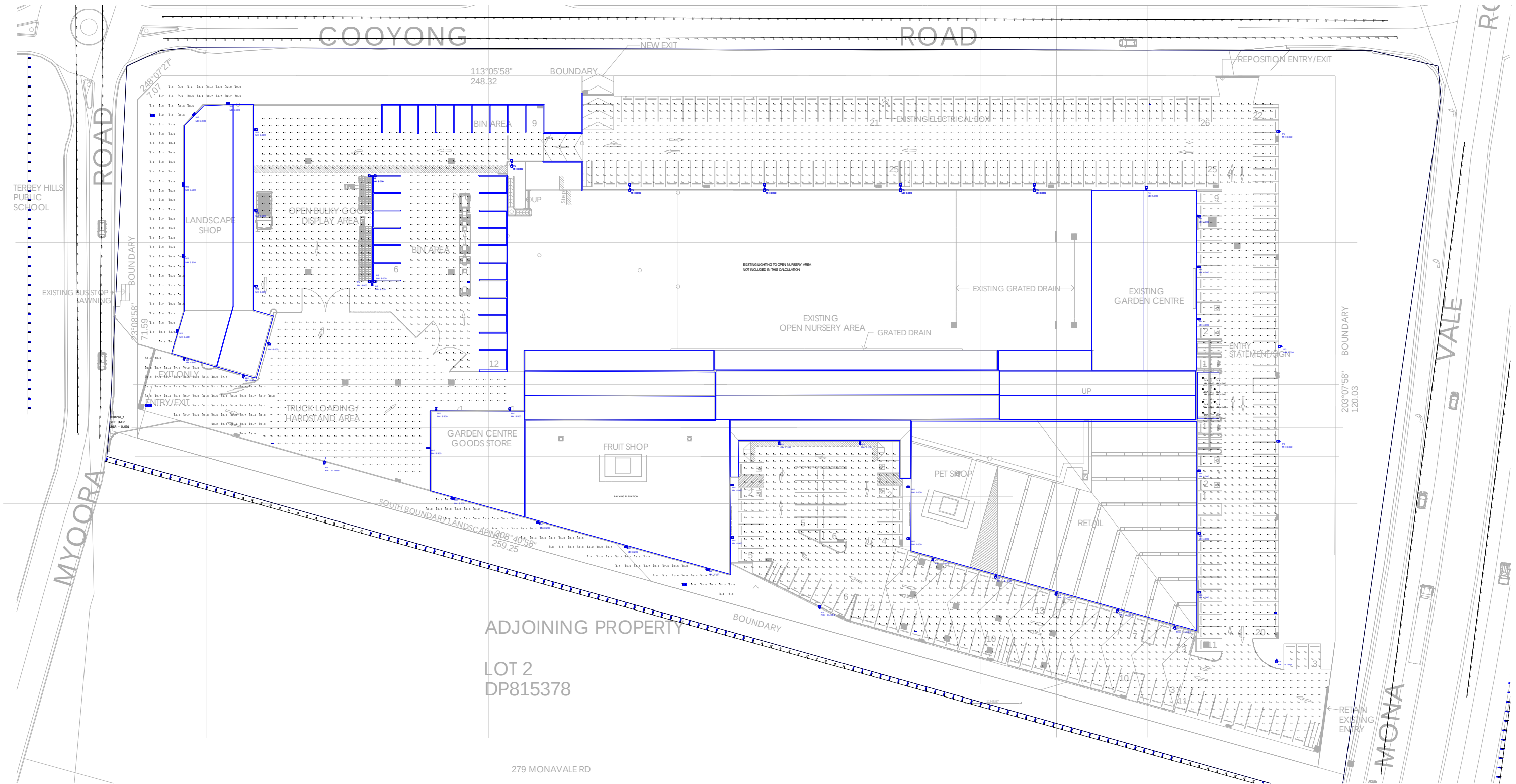




DESIGN NOTES:

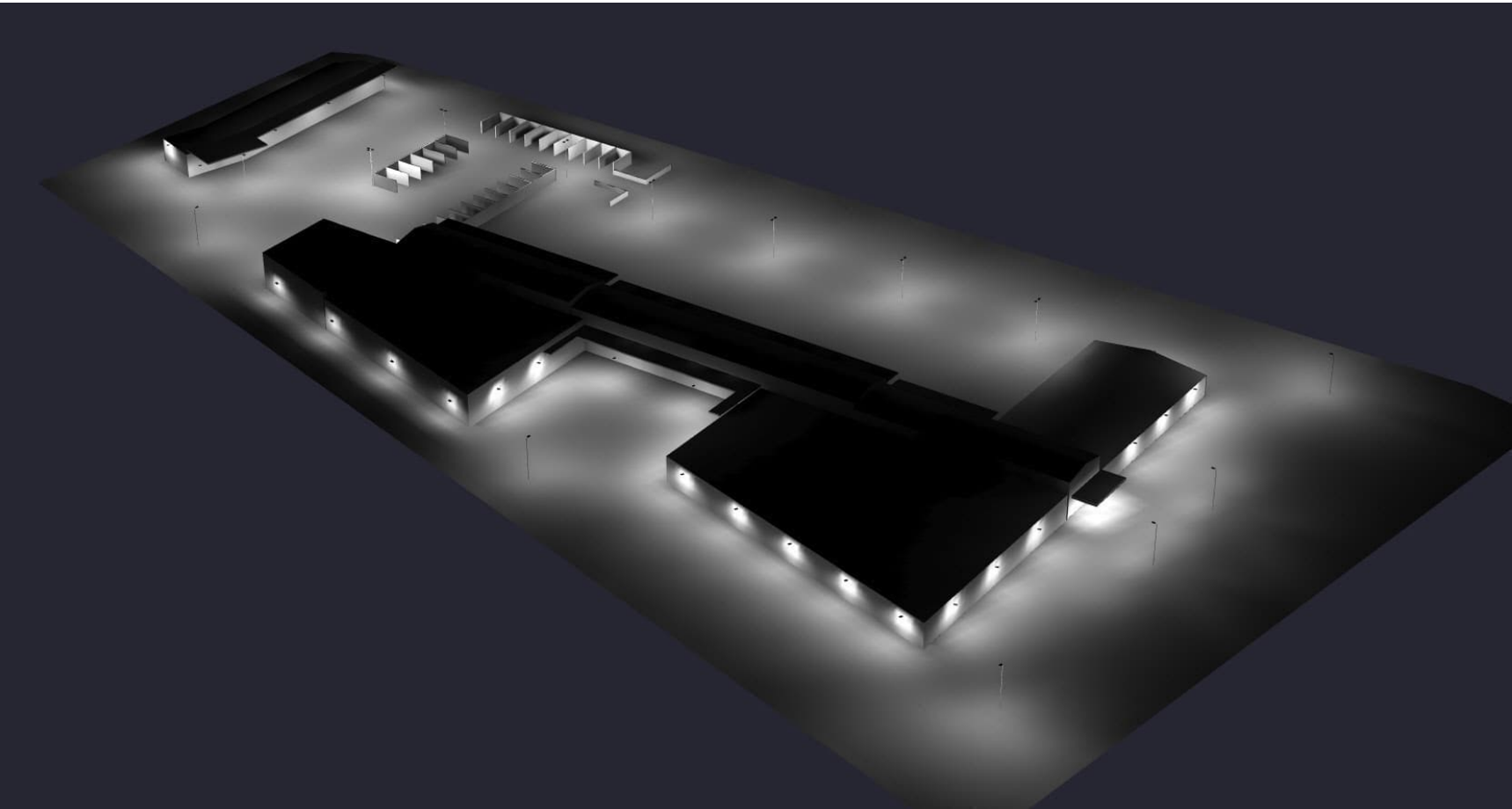
- THIS DESIGN SCHEME WAS PRODUCED ON ARCH BACKGROUND DA15-P4 SITE PLAN PRODUCED BY LEFFLER SIMES ARCHITECTS.
- THIS DESIGN SATISFY THE AVERAGE HORIZONTAL ILLUMINANCE AS REQUIRED FOR AUSTRALINA STANDARDS.
*AS1158.3.1:2020 - PC3 CARPARKS & CIRCULATION 14LUX
*AS1680.5:2012 - LOADING & UNLOADING 40LUX
- A MAINTENANCE FACTORS HAVE BEEN APPLIED THROUGHOUT THE DESIGN IN ACCORDANCE WITH AS 1158.3.1. A MAINTENANCE PLAN SHALL BE ADOPTED TO COMPLY WITH THESE FACTORS.
- OBTRUSIVE LIGHT ANALYSIS HAS BEEN CONDUCTED FOR THIS DESIGN IN ACCORDANCE WITH AS4282-2019.
- THIS DESIGN IS BASED ON THE INFORMATION PROVIDED BY THE CLIENT.
- LIGHT FITTING SIMULATION AND CALCULATION RESULTS ARE BASED ON IES FILES PROVIDED BY THE LIGHTING MANUFACTURER.

Luminaire Schedule						
Symbol	Qty	Label	Description	Tag	LLF	Total Lamp Lumens
⊙	8	M20C21N84-550mA	SALC MILANO DOWNLIGHT 21W REC	D1A	0.850	N.A.
□	1	HZ2-180-4B	DNS NIKKON ZEALII 180W T4	P6	0.850	23270
□	18	HZ2-150-4B	DNS NIKKON ZEALII 150W T4	P5	0.850	19370
□	25	HZ2-90-4B	DNS NIKKON ZEALII 90W T4	W4	0.850	11570
□	2	HZ2-120-4B	DNS NIKKON ZEALII 120W T4	P4	0.850	15470
□	2	HZ2-120-3B	DNS NIKKON ZEALII 120W T3	P3	0.850	17040
□	9	DU30 T2M	DNS NIKKON DUVAR 30W T2 WALL LIGHT	W2	0.800	4238.4

	THIS DESIGN IS FOR INFORMATION ONLY. NOT FOR CONSTRUCTION. CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING ANY WORK OR MAKING ANY SHOP DRAWING. THE INFORMATION ON THIS DRAWING REMAINS THE PROPERTY C-LEVEL PTY LTD	REV	DATE	DESCRIPTION	BY	 C-LEVEL PTY LTD SUITE 4 / 852-854 OLD PRINCES HWY, SUTHERLAND NSW 2232 P: 02 9545 2348 E: admin@c-level.com.au W: c-level.com.au	PROJECT:	DWG TITLE		
		P1	06/12/2021	PRELIMINARY	EC		FLOWER POWER TERRY HILLS	EXTERNAL LIGHTING		
		P2	29/05/2023	PRELIMINARY - NEW LAYOUT	CF					
							ADDRESS	277 MONA VALE RD, TERRY HILLS NSW		
						PAPER	PAGES	PROJECT NO.	DWG NO	REV
						A3	1/2	CLE-2305	LUX-001	P2

Luminaire Schedule						
Symbol	Qty	Label	Description	Tag	LLF	Total Lamp Lumens
	8	M20C21N84-550mA	SALC MILANO DOWNLIGHT 21W REC	D1A	0.850	N.A.
	1	HZ2-180-4B	DNS NIKKON ZEALII 180W T4	P6	0.850	23270
	18	HZ2-150-4B	DNS NIKKON ZEALII 150W T4	P5	0.850	19370
	25	HZ2-90-4B	DNS NIKKON ZEALII 90W T4	W4	0.850	11570
	2	HZ2-120-4B	DNS NIKKON ZEALII 120W T4	P4	0.850	15470
	2	HZ2-120-3B	DNS NIKKON ZEALII 120W T3	P3	0.850	17040
	9	DU30 T2M	DNS NIKKON DUVAR 30W T2 WALL LIGHT	W2	0.800	4238.4

UWLR Area Summary		
Label	UWLR	Description
LPDArea_1	0.001	SITE UWLR



Obtrusive Light - Compliance Report

AS/NZS 4282:2019, A3 - Medium District Brightness, Non-Curfew L1
Filename: flowerpower R2
30/05/2023 2:02:25 PM

Illuminance

Maximum Allowable Value: 10 Lux

Calculations Tested (4):

Calculation Label	Test Results	Max. Illum.
ObtrusiveLight_3 SOUTH_III_Seg1	PASS	7
ObtrusiveLight_4 EAST_III_Seg1	PASS	1
ObtrusiveLight_1 NORTH_III_Seg1	PASS	2
ObtrusiveLight_2 WEST_III_Seg1	PASS	0

Luminous Intensity (Cd) At Vertical Planes

Maximum Allowable Value: 12500 Cd

Calculations Tested (4):

Calculation Label	Test Results
ObtrusiveLight_3 SOUTH_Cd_Seg1	PASS
ObtrusiveLight_4 EAST_Cd_Seg1	PASS
ObtrusiveLight_1 NORTH_Cd_Seg1	PASS
ObtrusiveLight_2 WEST_Cd_Seg1	PASS

Threshold Increment (TI)

Maximum Allowable Value: 20 %

Calculations Tested (6):

Calculation Label	Adaptation Luminance	Test Results
ObtrusiveLight_TI_5	1	PASS
ObtrusiveLight_TI_6	1	PASS
ObtrusiveLight_TI_3	1	PASS
ObtrusiveLight_TI_4	1	PASS
ObtrusiveLight_TI_1	1	PASS
ObtrusiveLight_TI_2	1	PASS

Upward Waste Light Ratio (UWLR)

Maximum Allowable Value: 2.0 %

Calculated UWLR: 0.1 %
Test Results: PASS

DESIGN NOTES:

- OBSTRUSIVE CALCULATIONS PER AS4282:2019 CAT A3 MEDIUM DISTRICT BRIGHTNESS
- OBSTRUSIVE CALCS TAKEN FROM 1.5M TO 6M.
ROADWAY TI CALCS AT 1.5 WITH A WINDSHIELD CUTOFF ANGLE OF 20DEG.
- ASYMMETRIC OPTICS HAVE BEEN USED. COLOUR TEMPERATURE OF 4000K SHOULD BE SUPPLIED.

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	REV	DATE	DESCRIPTION			ADDRESS 277 MONA VALE RD, TERRY HILLS NSW	
		P1	06/12/2021	PRELIMINARY			
		P2	29/05/2023	PRELIMINARY - NEW LAYOUT			
PAPER A3	PAGES 2/2	PROJECT NO. CLE-2305	DWG NO LUX-001	REV P2			