

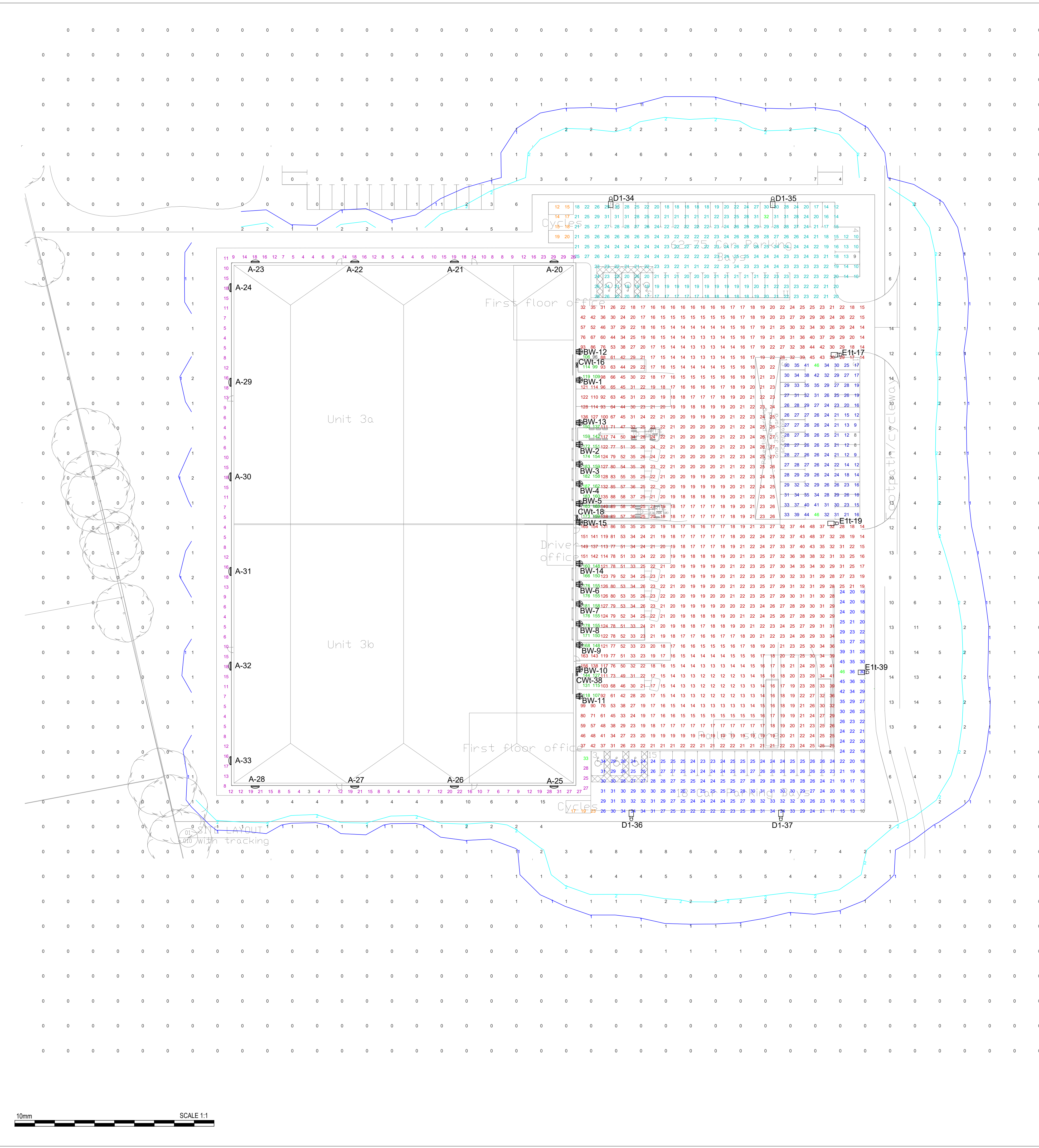
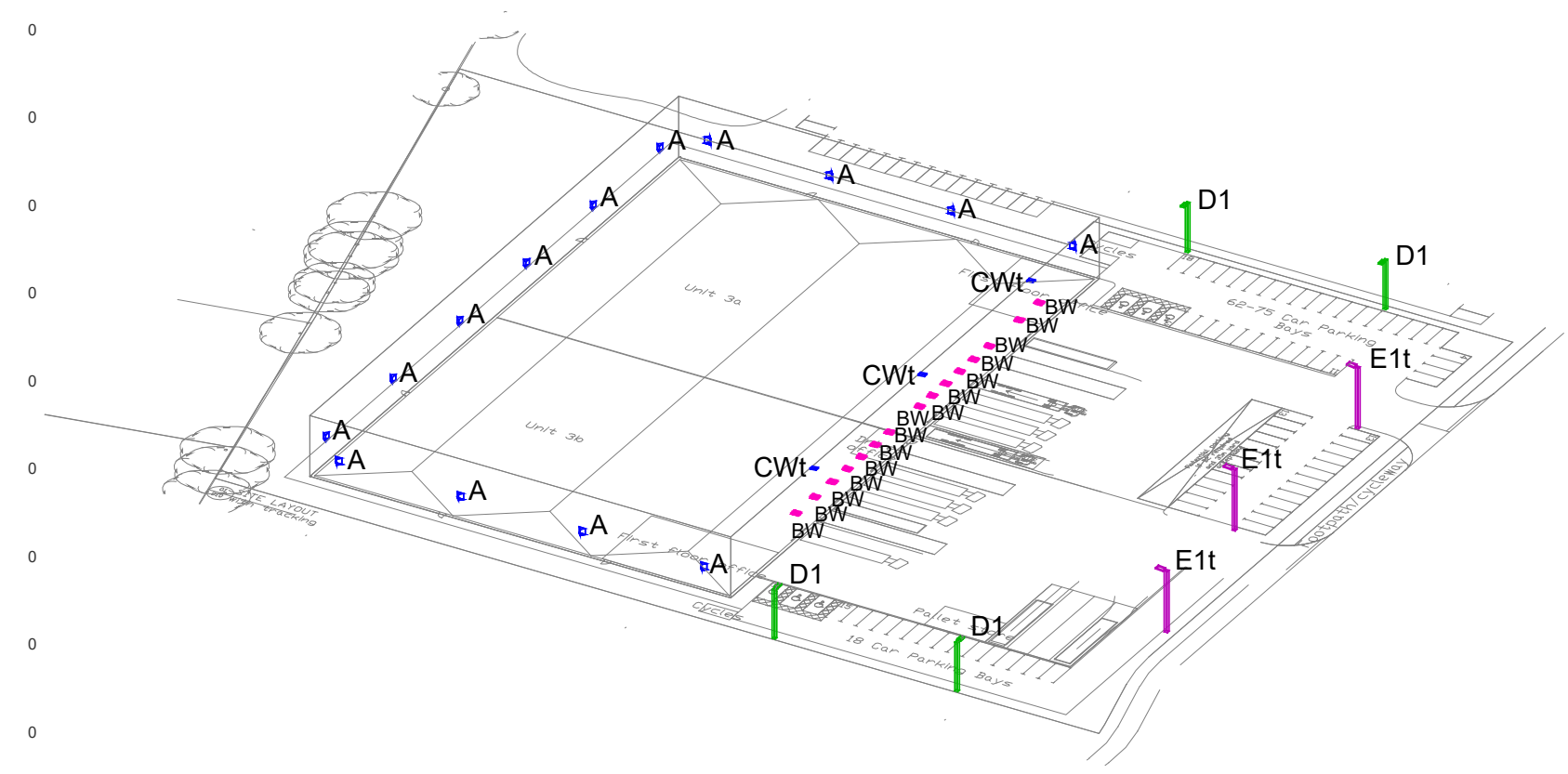
Symbol	Label	Qty	Catalog Number	Description	Lamp	Watts
	A	14	DEW.LA014.NR.C GL at 3.5m AFFL	Denver Elite Wall	LED C.1000LM - 4000K	12
	BW	15	F.TS.2.LA074.NR on Wall Bracket at 5m AFFL	FACTOR SMALL STREETLIGHT	LED C.7000LM-4000K	52
	CW1	3	DSX1.2.LA224.FW on 5 degree tilt Wall Bracket at 10m AFFL	D-Series 1 Luminaire	LED C.22000LM-4000K	208
	D1	4	1 x DSX1.2.LA164.AY on 8m Column	D-Series 1 Luminaire	LED C.16000LM-4000K	131
	E1t	3	1 x DSX2.2.LA364.FW on 10m Column and 5 degree tilt bracket	D-Series 2 Luminaire	LED C.36000LM-4000K	328

Description	Symbol	Avg	Min	Min/Avg
Building Perimeter	+	12 lux	3 lux	0.25
Cycles	X	20 lux	17 lux	0.85
Dock Doors	+	152 lux	96 lux	0.63
Parking	+	22 lux	9 lux	0.41
Parking	+	26 lux	10 lux	0.38
Parking	+	26 lux	8 lux	0.31
Service Yard	+	31 lux	12 lux	0.39
SPILL	+	1 lux	0 lux	0.00



NOTES

- THE PROPOSED LIGHTING SCHEME WILL ADOPT A POLICY OF LIMITING & CONTROLLING ALL EXTERNAL "UPWARD LIGHT POLLUTION" TO A MINIMUM AND TO USE THE MINIMUM ENERGY NECESSARY TO PROVIDE SAFE AND SECURE PREMISES. ALL EXTERNAL LIGHTING SCHEMES MUST THEREFORE NOT MAKE A DIRECT CONTRIBUTION TO "UPWARD LIGHT POLLUTION".
- THE NEW LIGHTING DESIGN WILL SATISFY ALL STATUTORY REQUIREMENTS INCLUDING THE CHARTERED INSTITUTION OF BUILDING SERVICES ENGINEERS 'CIBSE' TECHNICAL LIGHTING GUIDES.
- CAR PARKS, SERVICE YARD AND PEDESTRIAN AREAS, INCLUDING ALL ESCAPE DOORS AND PATHS, ARE TO BE ILLUMINATED BY LED / LOW ENERGY LIGHT SOURCES USING A COMBINATION OF BUILDING MOUNTED LUMINAIRES AND LIGHTING COLUMNS, TO PROVIDE A MINIMUM MAINTAINED ILLUMINANCE. LOCAL INCREASES IN LIGHTING LEVELS SHALL BE PROVIDED TO THE SERVICE YARDS AND STAFF ENTRANCES AND LOADING BAY AREAS FOR SAFE ACCESS AND EGRESS.
- THE CONTROL OF THE LIGHTING SOLUTIONS WILL BE VIA A TIME CLOCK AND PHOTOCELL CONTROL. THIS WILL ENABLE THE LIGHTING TO BE CONTROLLED TO OPERATE DURING THE OPENING TIMES TO COINCIDE WITH THE SUMMER AND WINTER SEASONS, THUS PREVENTING THE UNNECESSARY OPERATION OF THE LIGHTING SYSTEM.
- THE EXTERNAL LIGHTING WILL BE CO-ORDINATED WITH THE LANDSCAPING SCHEME WITH LIGHT SPILLAGE FROM THE SITE BEING KEPT TO A MINIMUM.
- THE LIGHTING WILL BE DESIGNED TAKING GREAT CARE TO ENSURE THAT THE REQUIRED LIGHTING LEVELS ARE ACHIEVED AT THE CAR PARK PERIPHERY, INCORPORATING LIGHTING GLARE CONTROL TO PREVENT LIGHT POLLUTION TO SURROUNDING AREAS, AND THAT ADEQUATE SECURITY LIGHTING IS PROVIDED FOR PUBLIC AND STAFF SAFETY.



Rev.	Date	Details	Initials
T1	09.06.17	Tender Issue	AW

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Client
Alblon Land

Project
Link 9 - Bakel Units 3A & 3B

Drawing Title
External Lighting Layout

Purpose	Date
TENDER ISSUE	Apr 2017
Scale @ A1 1:400	Checked CP
Drawn AW	Revision T1
Drawing No. ESC1298/E/002	