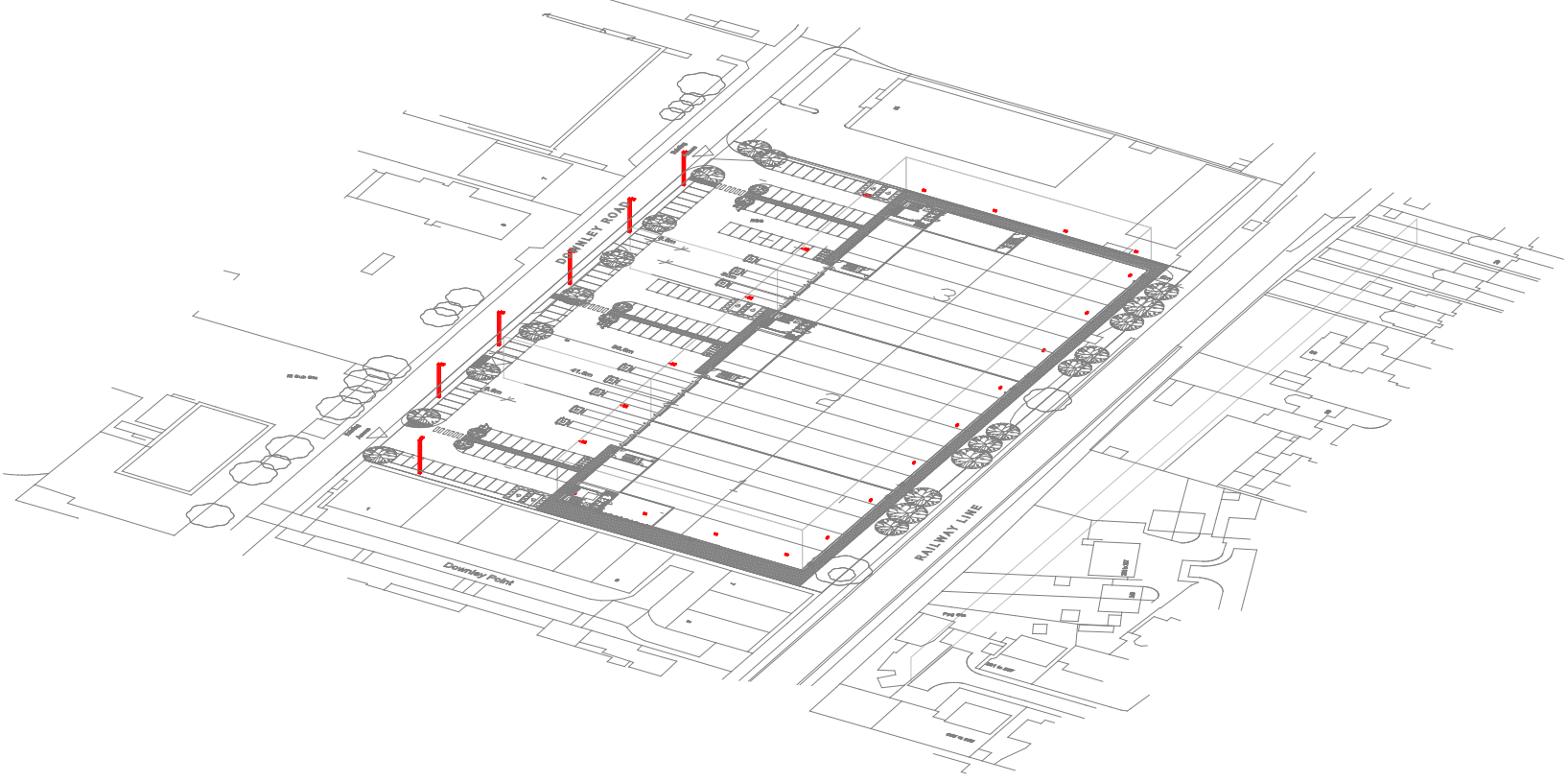


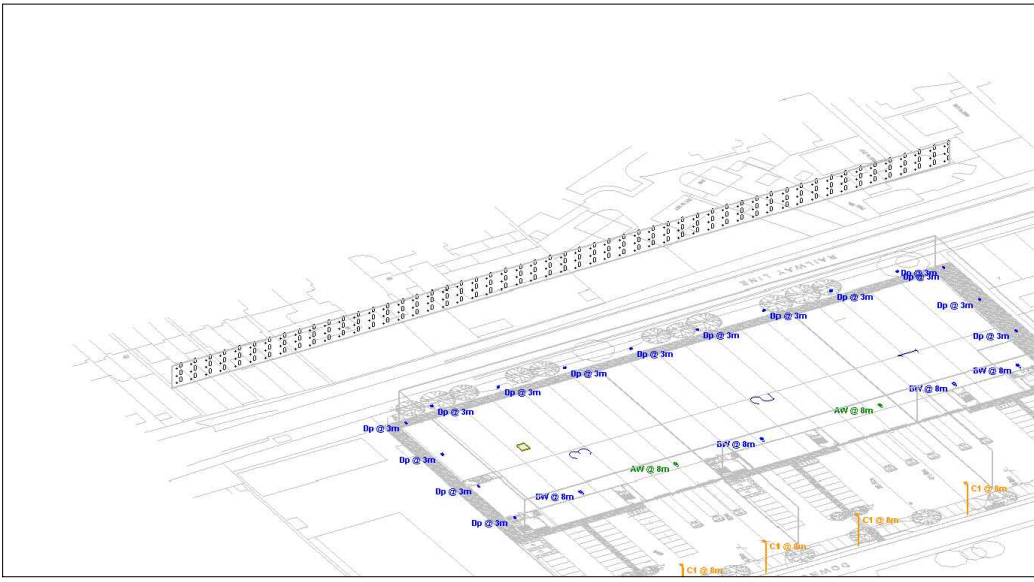
Schedule						
Symbol	Label	Quantity	Catalog Number	Description	Lumens Per Lamp	Wattage
	AW	2	DSX1.2LA224.FW on Wall Bracket at 8m AFFL	D-Series 1 Luminaire	24252	200
	BW	4	DSX0.4LA184.FW on Wall Bracket at 8m AFFL	D-Series 0 - Area luminaire	17390	130
	C1	6	1 x DSX0.4LA184.BLC on 8m Column, Extreme Backlight Control Optics	D-Series 0 - Area luminaire	12463	130
	Dp	16	DWL1.1LA014.HN.W007.PL1 at 3m AFFL, Dims to 30% after 10 minutes of inactivity - switches off after further 10 minutes. Remotely re-programmable with accessory HEL-PRG (purchased separately)	Denver ID Wall	897	6.5

Statistics				
Description	Symbol	Avg	Min	Min/Avg
Rear Walkways - 50.25Uo	+	8 lux	2 lux	0.25
Unit 1 Parking - 200.25Uo	+	24 lux	10 lux	0.42
Unit 1 Service Yard - 200.40Uo	+	21 lux	10 lux	0.48
Unit 2 Parking - 200.25Uo	+	21 lux	8 lux	0.38
Unit 2 Service Yard - 200.40Uo	+	22 lux	11 lux	0.50
Unit 3 Parking - 200.25Uo	+	20 lux	5 lux	0.25
Unit 3 Service Yard - 200.40Uo	+	24 lux	10 lux	0.42

BREEAM UK New Construction Compliance Schedule			
BREEAM Compliance Summary			
Ene 03	Energy efficient external lighting		Pass
Pol 04	Reduction of nighttime light pollution		Pass
Hea 01	Internal / external lighting levels		Pass
Evidence - Refer to evidence for each credit below			
Ene 03	Luminous Efficacy		Status
	Target Luminous Efficacy Target	Designed lumens per circuit watt (average)	
	Not less than 70 luminaire lumens per circuit watt	113	Pass
Ene 03 / Pol 04	Control Strategy		Status
	Automatic controls provided to prevent operation during daylight hours		
	Photocell & timedlock controls, all off between 23.00 and 07.00		Pass
Pol 04	Environmental Zone		Status
	TBA		
	Sky Glow		Status
	Target Upward Light Ratio (ULR)	Designed Maximum ULR	
		0.00%	Pass
	Luminaire Source Intensity (Candelas)		Status
	Pre-Curfew Target (Candelas)	Designed Candelas	
	Complies with Zones Pre/Post Curfew E2,E3,E4		Pass
	Post Curfew Target (Candelas)	Designed Candelas	
	Complies with Zones Pre/Post Curfew E2,E3,E4		Pass
	Light Intrusion / Trespass (Lux)		Status
	Pre-Curfew Target (Lux)	Designed Lux	
Hea 01	Complies with Environmental Zones E0 & E1 & E2 & E3 & E4	0	Pass
	Post Curfew Target (Lux)	Designed Lux	
	Complies with Environmental Zones E0 & E1 & E2 & E3 & E4	0	Pass
External Lighting Levels / Design			
BS EN Standards & Guidance Compliance			Status
External lighting has been designed in accordance with the recommended standards			Pass

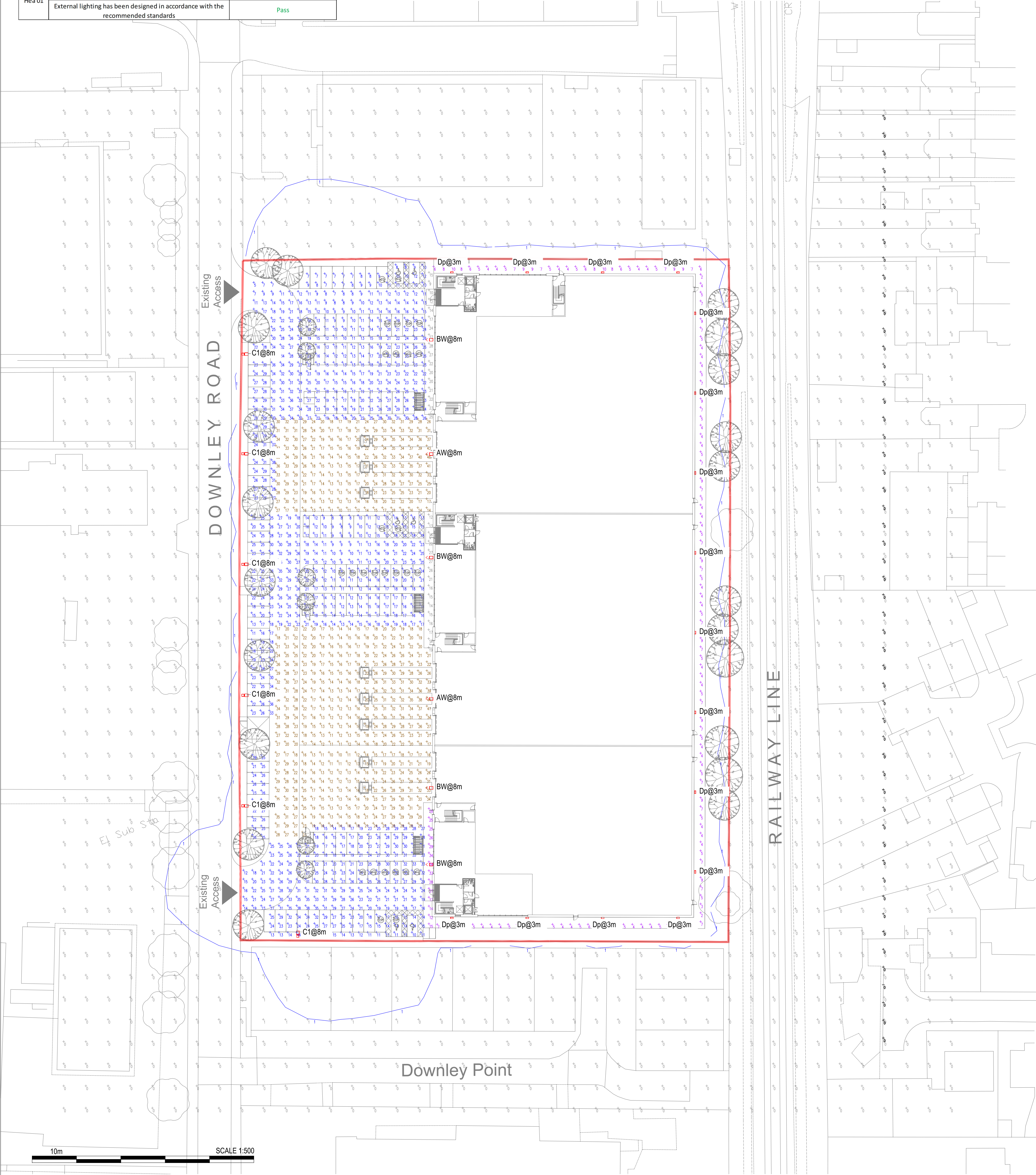


SOUTH EAST VIEW



VERT

Statistics		
Symbol	Max	Description
+	0 lux	Vertical Spill to South East Residential



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Contractors must verify all dimensions on site before commencing works.
All works shall be coordinated with all other trades.

RESIDUAL RISK REGISTER			
NO.	DESCRIPTION OF HAZARD	CONTROL MEASURES	ACTION BY
1	UNKNOWN BURIED SERVICES AND SERVICES IDENTIFIED IN WRONG LOCATION.	IDENTIFICATION OF EXISTING UNDERGROUND SERVICES USING UTILITY RECORD DRAWINGS AND CAT SCANNING OF GROUND. CAREFUL EXCAVATION, USING SLOT TRENCHES AND CAT SCANNING OF GROUND.	CONTRACTOR

NOTES

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER ENGINEERING SERVICES CONSULTANCY LIMITED DRAWINGS
- THE EXTERNAL LIGHTING SHALL BE DESIGNED TO ENSURE THAT REQUIRED LIGHTING LEVELS ARE ACHIEVED WHILST MINIMISING GLARE AND LIGHT SPILLAGE TO THE SURROUNDING AREAS AND TO ENSURE THERE IS NO DIRECT CONTRIBUTION TO UPWARD LIGHT POLLUTION.
- THE EXTERNAL LIGHTING SCHEME SHALL BE PROVIDED IN ACCORDANCE WITH THE LOCAL PLANNING AUTHORITIES REQUIREMENTS/RESTRICTIONS.
- WHERE COLUMNS ARE POSITIONED NEAR TO NEIGHBOURING PROPERTIES, OR LOCATED ON THE PERIMETER OF THE SITE, THEY SHALL BE COMPLETE WITH SUITABLE BACK-SHIELDS TO PREVENT LIGHT SPILL.
- ALL COLUMNS SHALL HAVE A FLEXIBLE DUCT PASSING INTO THE BASE, THROUGH THE CONCRETE, TO ENSURE THAT FUTURE REWIRING OF THE CIRCUITS IS POSSIBLE.
- WHERE LUMINAIRES ARE FIXED DIRECTLY TO THE EXTERNAL BUILDING FABRIC, THE LUMINAIRES SHALL BE THE SAME RAL COLOUR AS THE CLADDING PANELS. ALL LUMINAIRE FIXING BOLTS ETC. SHALL BE THE SAME COLOUR AS THE LUMINAIRE.
- GENERALLY, THE COLUMNS SHALL BE GALVANISED STEEL CONSTRUCTION. THE ELECTRICAL CONTRACTOR SHALL LIAISE WITH THE ARCHITECT TO ASCERTAIN THE RAL COLOUR OF THE COLUMNS. THE COLUMN HEADS SHALL MATCH THE RAL COLOUR OF THE COLUMN.
- WHERE SERVICES NEED TO BE INSTALLED WITHIN DUCTS / TRENCHES, THE ELECTRICAL CONTRACTOR SHALL SUPPLY THE MAIN CONTRACTOR WITH DETAILS OF REQUIRED DUCT ROUTES AND DRAW PIT LOCATIONS.
- DURING INSTALLATION OF THE EXTERNAL LIGHTING A DRAW WIRE SHALL BE PULLED THROUGH WITH THE CABLING TO PROVIDE A MEANS OF INSTALLING FUTURE SERVICES

LEGEND

- EXTERNAL LIGHTING COLUMNS/BOLLARDS
(REFER TO EXTERNAL LIGHTING DRAWING FOR MORE INFORMATION)

P2	27.06.24	Issued for planning - site plan revised	DH
P1	02.06.24	Issued for information	DH

Rev.	Date	Details	Initials
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Client
Canmoor

Project
**Downley Road
Havant**

Drawing Title
External Lighting Layout

Purpose
FOR PLANNING

Drawn DM	Engineer DH	Approved DH
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Project No. 0000	Date Jun 2024	Scale @ A1 1:500
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Drawing No. 0000-ESC-00-ZZ-DR-E-2100	Revision P2
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