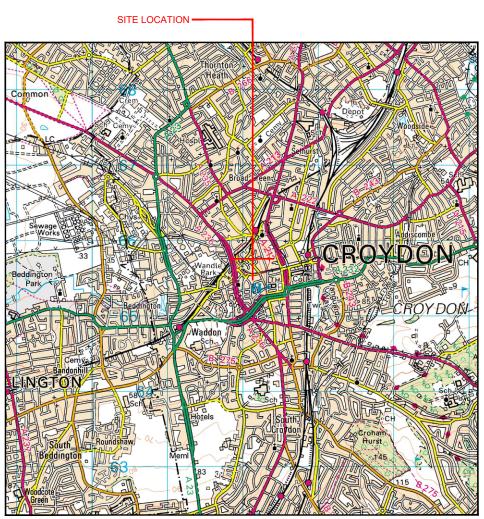
	_	30.08.23	06.11.23											
Drawing Name:	Drawing No:	A	A1											
Drawing Register	001	$\checkmark$	$\checkmark$											
Site Location Plan	002	<ul> <li>✓</li> </ul>	$\checkmark$											
Access Plan	003	$\checkmark$	$\checkmark$											
Lease Demise	004	$\checkmark$	$\checkmark$											
Service Plan	005	$\checkmark$	$\checkmark$											
FIXIT's & Project Dependencies	006	$\checkmark$	$\checkmark$											
Existing Site Plan	100	$\checkmark$	$\checkmark$											
Proposed Site Plan	150	$\checkmark$	$\checkmark$											
Existing Site Elevation A	200	· · · · · · · · · · · · · · · · · · ·	· ✓											
Proposed Site Elevation A	250	· ✓	$\checkmark$											
Antenna Plan & RRU Plan	310	✓ ✓	✓ ✓											
Existing Antenna Schedule	300	✓ ✓	✓ ✓											
Existing Antenna Line Configuration	325	✓ ✓	✓ ✓											
Proposed Antenna Schedule	330	▼ ▼	▼ ✓											
Proposed Antenna Line Configuration	335	▼ ▼	✓ ✓	 										
Equipment Schedules & Support Structure	400	▼ ▼	▼ √	 										
Power & Transmission Schedule		✓ ✓	$\checkmark$	 										
Proposed RF Compliance Plan	401	▼ ▼	✓ ✓											
	500													
Proposed RF Compliance Elevation	510	✓	<ul> <li>✓</li> </ul>											
Detailed Designs	600-604		<ul> <li>✓</li> </ul>											
Electrical Schematic	700-701		$\checkmark$											
Lightning Protection Details	705		<ul> <li>✓</li> </ul>											
Signage Plan	800		<ul> <li>✓</li> </ul>											
Standard Notes	900-901		<ul> <li>✓</li> </ul>											
Purpose of Issue:			,			·								
Planning		✓												
General Arrangement		✓ ✓												
Detailed Design		•	$\checkmark$											
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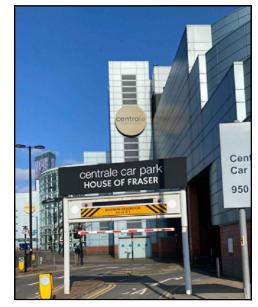
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Date: Drawn: Checked:	06/11/2023 DvB DM	Revision / Upgrade De First Issue	scription:				
Approved: Master: M001	KTL MBNL / EE / H3G: MBNL	Project: Vendor S	wan	Purpose of Issue:	Issue:		
Date: Drawn:	30/08/2023 MM	Revision / Upgrade De First Issue		Planning			
Checked: Approved:	DvB KTL	1 101 10000					
			Hatfie Hatfie	eld Business Pa	ark		
			Hertfo	ordshire			
			AL10	9BW			
				1707 315000			
Design &	Principal Cor	osultant:	Fax: 0	1707 319001			
2 oolgii a							
UK Of	fice:						
UBC E	Building, 1310	Solihull Parkwa ss Park, B37 7Y		Tel: +44 (0)1908 3 Email: info@ktl.ie	377 766		
Site Nam	e:						
	CENTR	ALE SHO	PPIN	G CENTRE	2		
Site ID:		108	286	2			
Address:							
	CENT				E		
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Title:							
	001	DRAWIN	IG RE	EGISTER			
Project:		VENDO	R SV	VAP			
Purpose of	Issue:	ETAILE	יח ח	SIGN			
	EE Cell ID:	MBNI	Cell ID:	3UK (	Cell ID:		
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Master Drav 108		N002_50961	I_CR0	137_M002	A1		



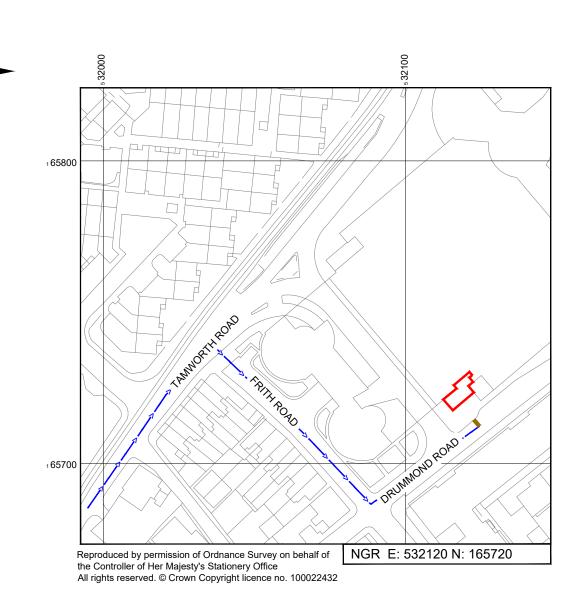
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# SITE AREA PLAN

 $\begin{bmatrix} 1 & 1 & 1 \\ 0 & 1 & 50,000 \end{bmatrix}^{1 \text{km}} = 2$ 



SITE PHOTOGRAPH



SITE LOCATION PLAN

<sup>0</sup> 1:1250 <sup>25m</sup> <sup>5</sup>



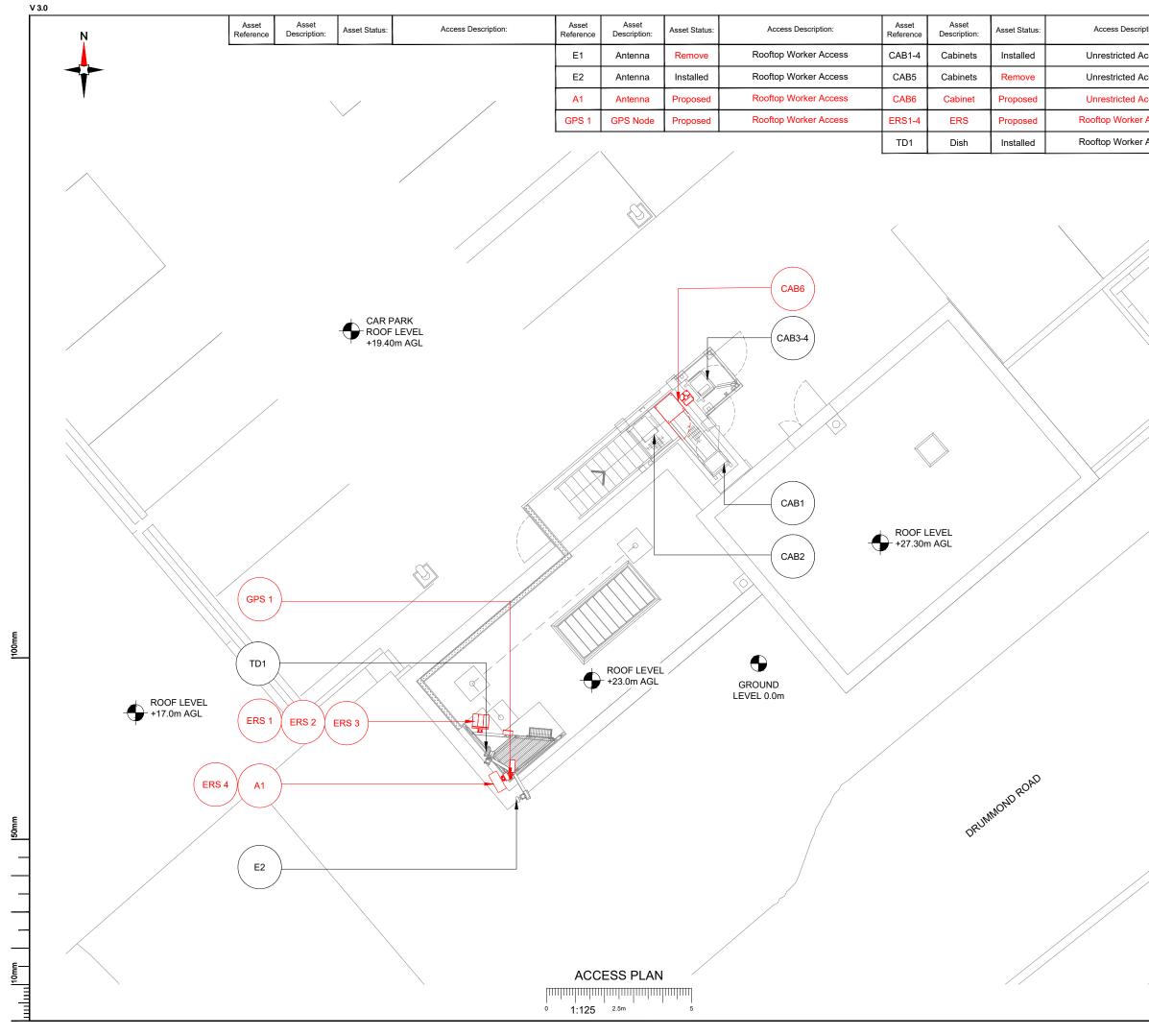
GOOGLE MAPS QR CODE

**GOOGLE MAPS - HYPERLINK** 

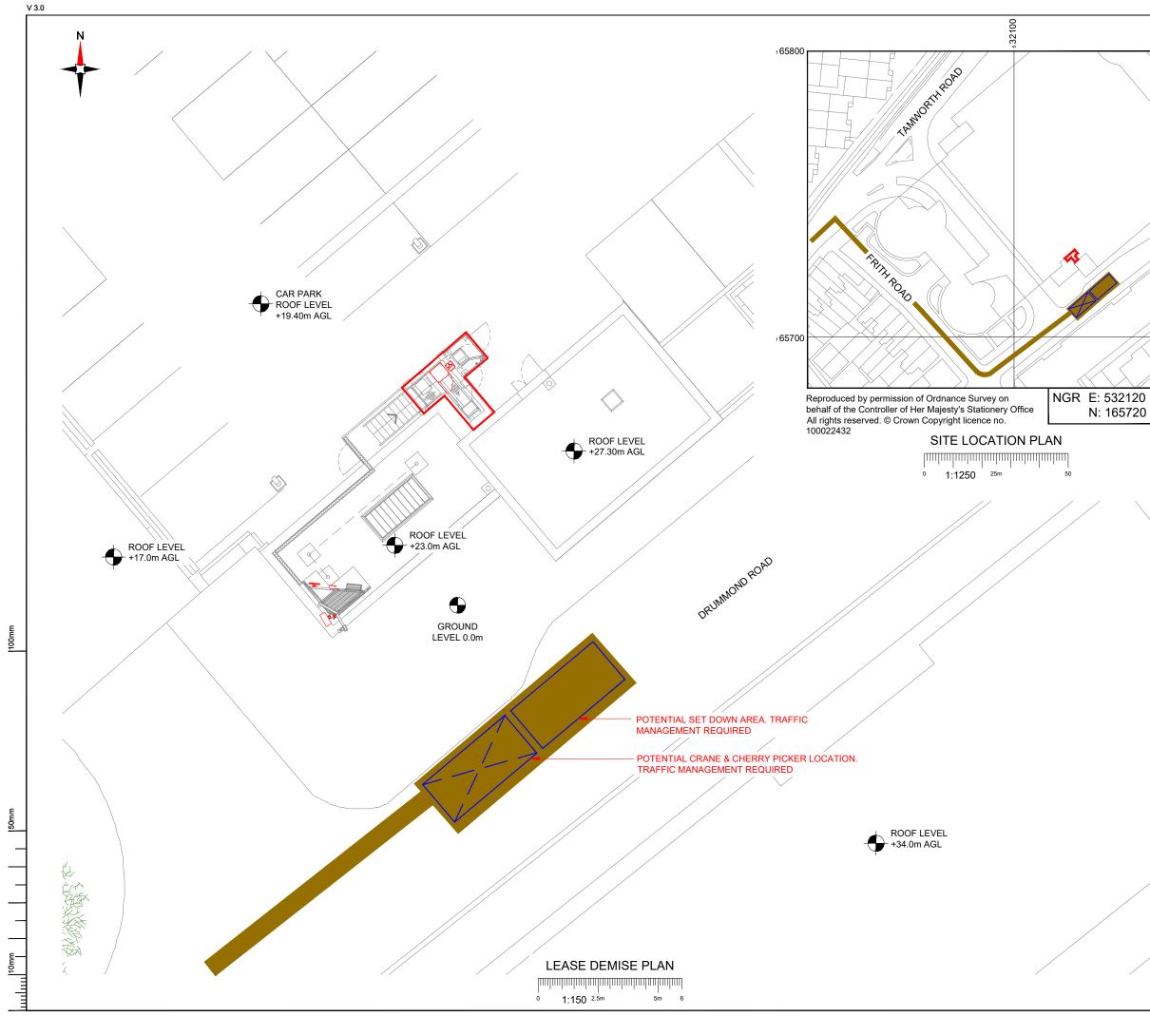
GOOGLE STREET VIEW - HYPERLINK

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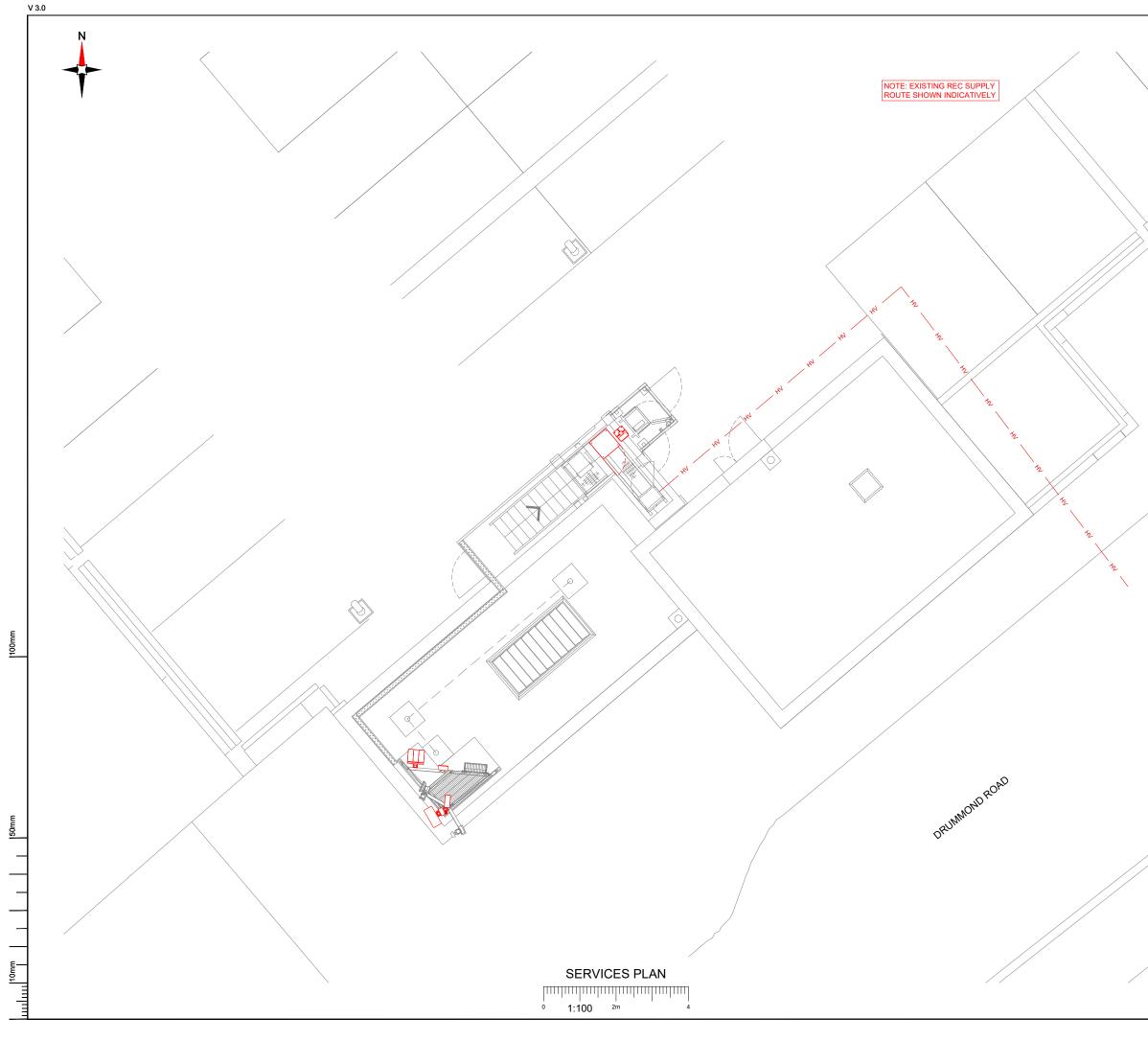
NOTES:	NOTES:						
1. ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.							
HEAD EAST ON M2 ONTO GODSTONE TAKE THE 4TH EXI NARROW LN, TURI TURNS LEFT AND ROUNDABOUT, TA AT THE ROUNDAB TURN RIGHT ONTO	DIRECTIONS TO SITE: HEAD EAST ON M25, AT THE ROUNDABOUT, TAKE THE 1ST EXIT ONTO GODSTONE HILL/A22, AT WAPSES LODGE ROUNDABOUT, TAKE THE 4TH EXIT ONTO SUCCOMB'S HILL, CONTINUE ONTO NARROW LN, TURN RIGHT ONTO WESTHALL RD, WESTHALL RD TURNS LEFT AND BECOMES THE GREEN/B269, AT THE ROUNDABOUT, TAKE THE 1ST EXIT ONTO LOWER COOMBE ST/A236, AT THE ROUNDABOUT, TAKE THE 2ND EXIT ONTO OLD TOWN/A236, TURN RIGHT ONTO REEVES CORNER, CONTINUE ONTO TAMWORTH RD, CONTINUE STRAIGHT TO STAY ON TAMWORTH RD, CONTINUE						
Demise:		<b></b>					
Access Route To Si	te:>	>>					
Access Route:							
Master: MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:				
M002 MBNL	Vendor Swap	Detail Design	A1				
Date:         06/11/2023           Drawn:         DvB           Checked:         DM	Revision / Upgrade Description: First Issue						
Approved: KTL Master: MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:				
M001 MBNL Date: 30/08/2023	Vendor Swap Revision / Upgrade Description:	Planning	A				
Drawn: MM Checked: DvB	First Issue						
Approved: KTL	Hatfie	eld Business Pa	ark				
	Hatfie Hertfo AL10	ordshire					
E		1707 315000 1707 319001					
Design & Principal Cor	nsultant:						
UK Office: UBC Building, 1310 Birmingham Busine		Tel: +44 (0)1908 3 Email: info@ktl.ie	77 766				
Site Name: CENTR	ALE SHOPPIN	IG CENTRE	2				
Site ID:	108286	2					
	ייססטור פוואס		_				
CENT	RALE SHOPPII NORTH EN		_				
	CROYDO CR0 1TY	N					
Title: 002	SITE LOCATI	ON PLAN					
Project:	VENDOR SV						
Purpose of Issue:	ETAILED DE	ESIGN					
EE Cell ID: 50961							
Master Drawing No: 1082862_CD	N002_50961_CR0	137_M002	Issue: A1				



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cess	DEFINED ACCESS ROUTE DESCRIPTION FROM SITE ENTRANCE TO THE EQUIPMENT:					
cess						
Access						
Access						
1.	Master: MBNL / EE / H3G M002 MBNL	Project: Vendor Swap	Purpose of Issue: Detail Design	Issue: A1		
$\square$	Date:         06/11/2023           Drawn:         DvB           Checked:         DM	Revision / Upgrade Description: First Issue				
	Checked: DM Approved: KTL Master: MBNL / EE / H3G		Purpose of Issue:	Issue:		
	M001 MBNL Date: 30/08/2023	Revision / Upgrade Description:	Planning	A		
	Drawn: MM Checked: DvB Approved: KTL	First Issue				
		Hatfie Hertfo AL10	ordshire 9BW	ĸ		
			1707 315000 1707 319001			
	Design & Principal Co	onsultant:				
		KT				
	Birmingham Busin	0 Solihull Parkway, ess Park, B37 7YU	Tel: +44 (0)1908 37 Email: info@ktl.ie	7 766		
	Site Name: CENTF	RALE SHOPPIN	G CENTRE	2		
	Site ID:	108286	2			
	Address:					
	CENT	RALE SHOPPII NORTH EN				
/,		CROYDO CR0 1TY	N			
	Title:	003 ACCESS	PLAN			
	Project:	VENDOR SV	VAP			
	Purpose of Issue:	DETAILED DE				
	EE Cell ID: 50961	MBNL Cell ID:				
	Master Drawing No: 1082862_CE	DN002_50961_CR0		A1		



	NEW CODE:
	Demise: Outlined in Red
	Access Route: Solid Brown
	Set Down Area: Outlined in Blue
	Crane Area: Dashed in Blue
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Y	
//	Master: MBNL / EE / H3G: Project: Purpose of Issue: Issue: Issue:
1	M002 MBNL Vendor Swap Detail Design A1 Date: 06/11/2023 Revision / Ugrade Description:
	Drawn: DVB First Issue Checked: DM Approved: KTL
	Master:         MBNL / EE / H3G:         Project:         Purpose of Issue:         Issue:           M001         MBNL         Vendor Swap         Planning         A
	Date:         30/08/2023         Revision / Upgrade Description:           Drawn:         MM         First Issue           Checked:         DvB         First Issue
	Approved: KTL
	Hatfield Business Park Hatfield Hertfordshire AL10 9BW
	Tel: 01707 315000 Fax: 01707 319001
	Design & Principal Consultant:
	KTE
	UK Office: UBC Building, 1310 Solihull Parkway, Birmingham Business Park, B37 7YU Email: info@ktt.ie
	Site Name: CENTRALE SHOPPING CENTRE 2
	Site ID: 1082862
	Address: CENTRALE SHOPPING CENTRE
	NORTH END
	CROYDON CR0 1TY
/	Title: 004 LEASE DEMISE
	Project: VENDOR SWAP
	Purpose of Issue: DETAILED DESIGN
/	EE Cell ID:         MBNL Cell ID:         3UK Cell ID:           50961         CDN002         CR0137
	Master Drawing No: 1082862_CDN002_50961_CR0137_M002



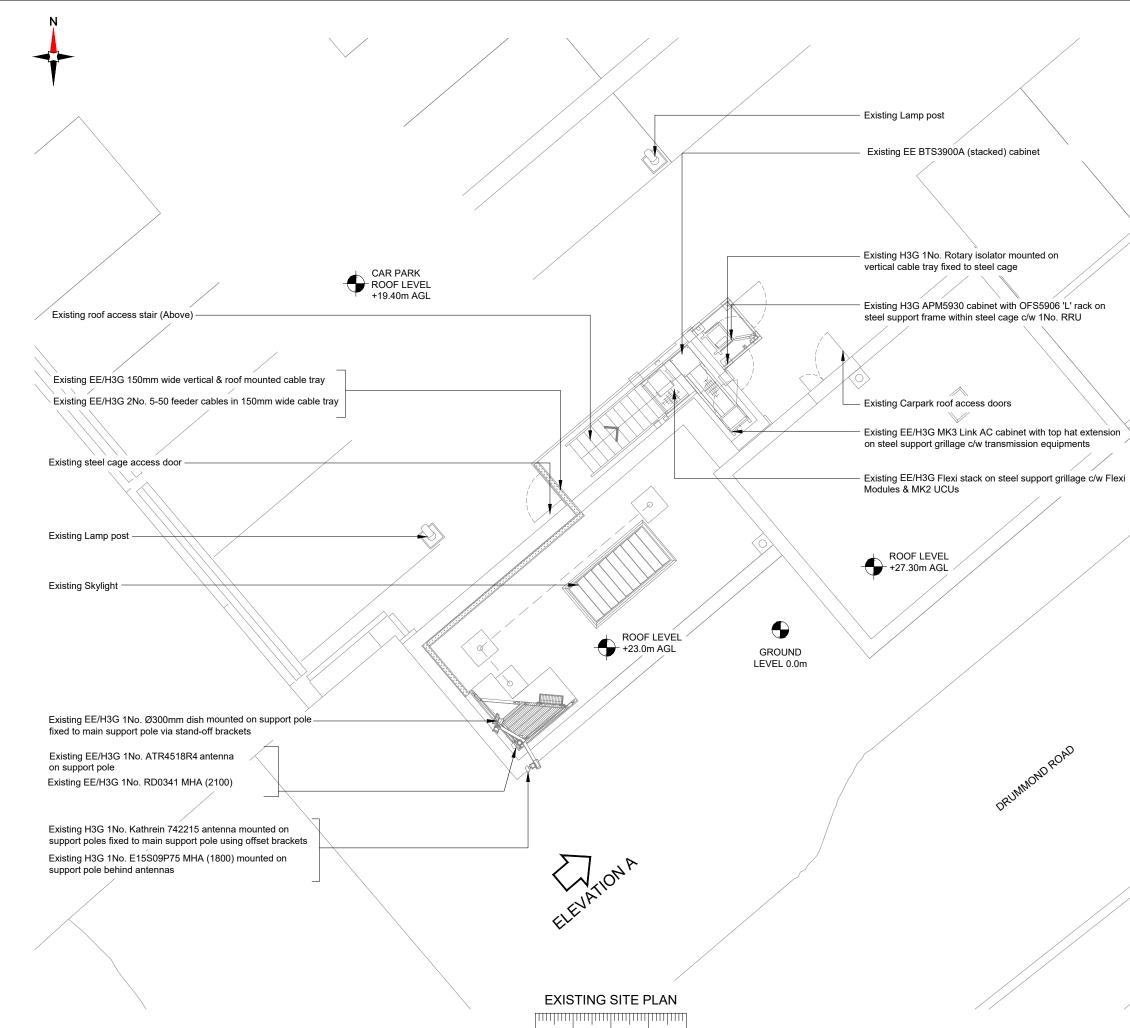
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	Master: MBNL / EE	E / H3G: Project:	Purpose of Issue:	Issue:		
	M002 MB1 Date: 06/11/2		Detail Design	A1		
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	Date: 30/08/2 Drawn: MM	2023 Revision / Upgrade Description A First Issue	-			
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			field Business Par field	ĸ		
		Hei	tfordshire			
		AL	10 9BW			
		Tel:	01707 315000			
			: 01707 319001			
	Design & Princip	oal Consultant:				
	UK Office: UBC Building	, 1310 Solihull Parkway,	Tel: +44 (0)1908 37	7 766		
		Business Park, B37 7YU	Email: info@ktl.ie			
	Site Name: CEN	ITRALE SHOPP		2		
	Site ID:	10828	62			
	Address:					
	CE	NTRALE SHOPF NORTH E				
/		CROYD				
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/	Title:	005 SERVICE	S PLAN			
	Project:					
	Purpose of Issue:					
	EE Cell IE			11 ID:		
	5096		02 CR0 <sup>2</sup>	137		
	Master Drawing No: 1082862	_CDN002_50961_CI		A1		
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Live Technologi	es	Pr	oposed Config	Achievable Config	Proposed Config	Achievable MIMO Config		CR Status
GSM;UMTS;LTE1800 ;LTE1800 Carrier 2	Carrier 1	18/18/21/	26/26/35/80/70	18/18/21/26/26/35/80/70	18/21/26 @4x4; 70/80 @2x4; 3500 @8x8	18/21/26 @4x4; 70/80 @2x4; 3500 @8x8	N/A	
							-	
				FIXITS				
FIXIT TYPE	STA	TUS	FIXIT NUMBER	СОМ	MENTS			
-		-	-	-				
DEPENDENCY	STATUS			COMMENTS				
Asbestos	Completed	Refer to a	asbestos report dated 05	5/03/20. No ACMS detected				
Building Regulations Approval	N/A	-						
Planning Conditions	Ok	-						
RF Compliance TD54000 v11.0	Pass / Fail: Pass	Sector A	T&A - Stepdown 4.0a	a				
Global Design Check	N/A	-						
Geotech Report	N/A	-						
Structural Calculations	Completed	-						
Intrusive Building Survey	N/A	-						
Rigging Survey	N/A	-						
Power	Upgrade Requii NO		ingle phase 100A REC	supply				
Line of Sight Survey	N/A	-						
Cooling Solution	Indoor/outdoor Outdoor	<u>br:</u> <u>kW:</u> -	<u>Status:</u> -	<u>System:</u> -	Upgrade Required: -			
Services Search	N/A	-						
Trial Hole	N/A	-						
Temporary Site	N/A	-						
Other	N/A							
Other	-							

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# Note: Page is for Internal Distribution Only

STATUS KEY:						
Insta Retai Reloc Remo Prop	in: cate:	Existing Existing and to remain Existing and to be relocated Existing to be removed from site New on site				
LOC	ATION KEY	:				
Outd Indoo Inter	or:	equipment room	Located within an equipment cabin or equipment room located inside a cabinet or item of			
Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:		
M002 Date:	MBNL 06/11/2023	Revision / Upgrade Description:	Detail Design	A1		
Drawn: Checked: Approved:	DvB DM KTL	First Issue				
Master: M001	MBNL/EE/H3G: MBNL	Project: Vendor Swap	Purpose of Issue: Planning	A		
Date: Drawn: Checked:	30/08/2023 MM DvB	Revision / Upgrade Description: First Issue				
Approved: KTL Hatfield Business Park Hatfield Hertfordshire AL10 9BW Tel: 01707 315000 Fax: 01707 319001						
Design &	& Principal Co	nsultant:				
UK O	ffice					
UBC Birmir	Building, 1310 ngham Busine	Solihull Parkway, ss Park, B37 7YU	Tel: +44 (0)1908 377 Email: info@ktl.ie	7 766		
Site Nan		ALE SHOPPIN	IG CENTRE 2	2		
Site ID:		108286	2			
Address: CENTRALE SHOPPING CENTRE NORTH END CROYDON CR0 1TY						
Title:	6 FIXIT's	& PROJECT I	DEPENDENC	CIES		
Project:		VENDOR SV	VAP			
Purpose of		ETAILED DE	ESIGN			
5	EE Cell ID: 50961	MBNL Cell ID:		137		
Master Dra 108	-	N002_50961_CR0		sue: A1		

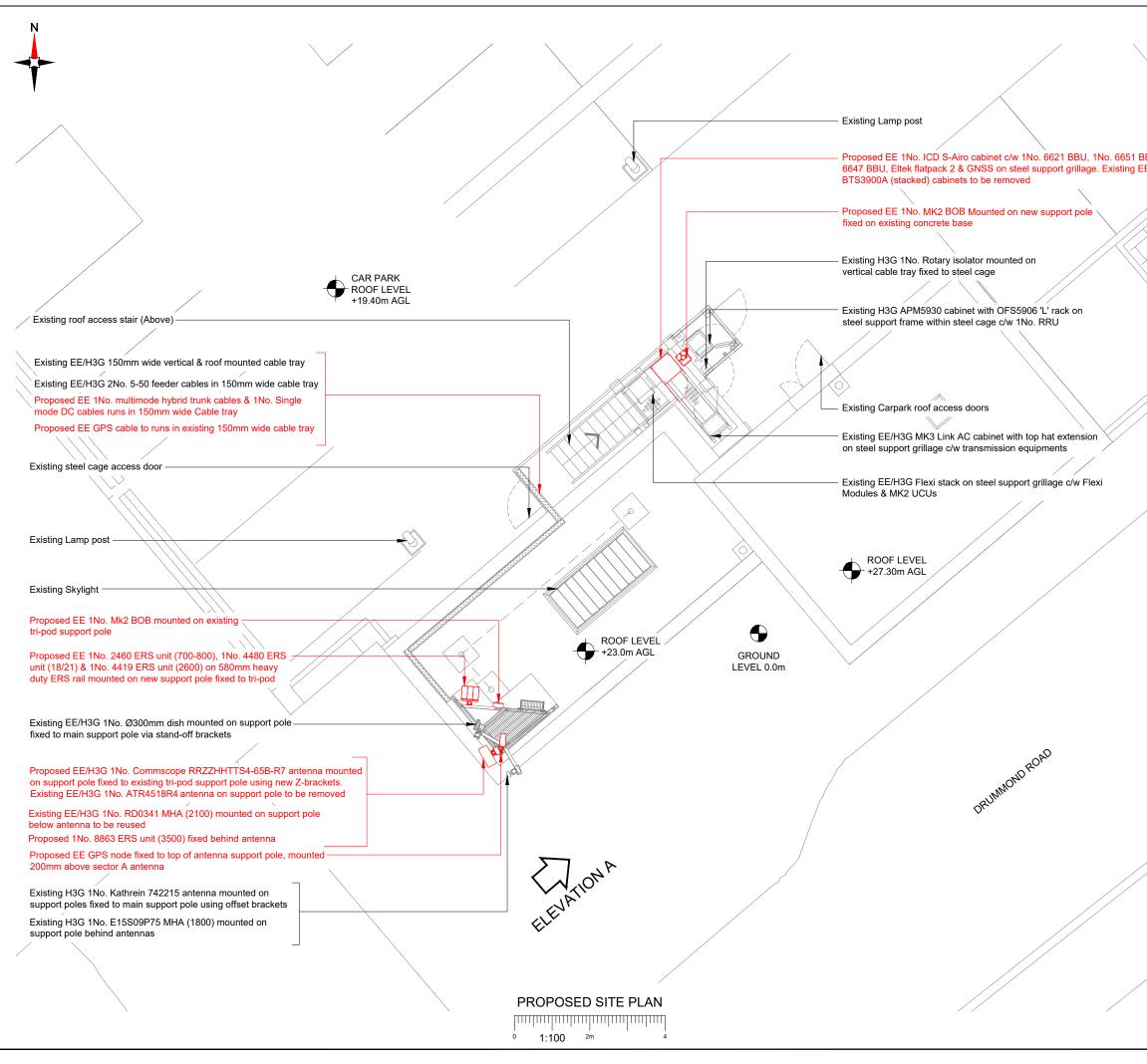


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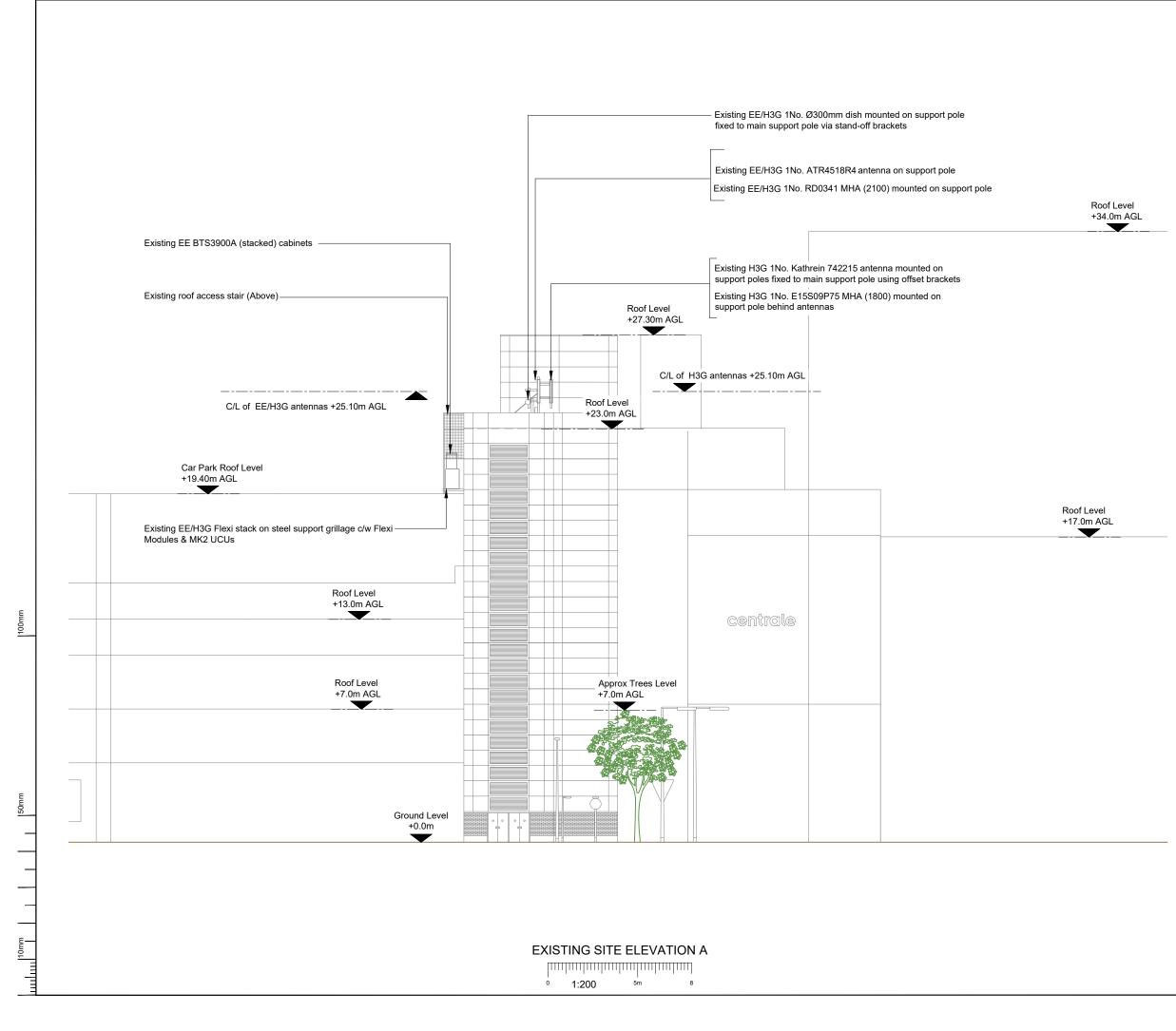
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	M002 MBNL Vendor Swap Detail Design A1 Date: 06/11/2023 Revision / Upgrade Description:
	Drawn:         DvB         First Issue           Checked:         DM
	Approved:         KTL           Master:         MBNL/EE / H3G:         Project:         Purpose of Issue:         Issue:           M001         MBNL         Vendor Swap         Planning         A
	Date: 30/08/2023 Revision / Upgrade Description: Drawn: MM First Issue
	Checked: DVB Approved: KTL
	Hatfield Business Park Hatfield
	Hertfordshire
	AL10 9BW
	Tel: 01707 315000
	Fax: 01707 319001 Design & Principal Consultant:
	UK Office:
	UBC Building, 1310 Solihull Parkway, Tel: +44 (0)1908 377 766 Birmingham Business Park, B37 7YU Email: info@ktl.ie
	Site Name:
	CENTRALE SHOPPING CENTRE 2
	Site ID: 1082862
	Address:
	CENTRALE SHOPPING CENTRE
1.	NORTH END CROYDON
	CR01DON CR01TY
	Table
	100 EXISTING SITE PLAN
	Project: VENDOR SWAP
/	Purpose of Issue:
/	DETAILED DESIGN
/	50961 CDN002 CR0137
	Master Drawing No: 1082862_CDN002_50961_CR0137_M002 A1

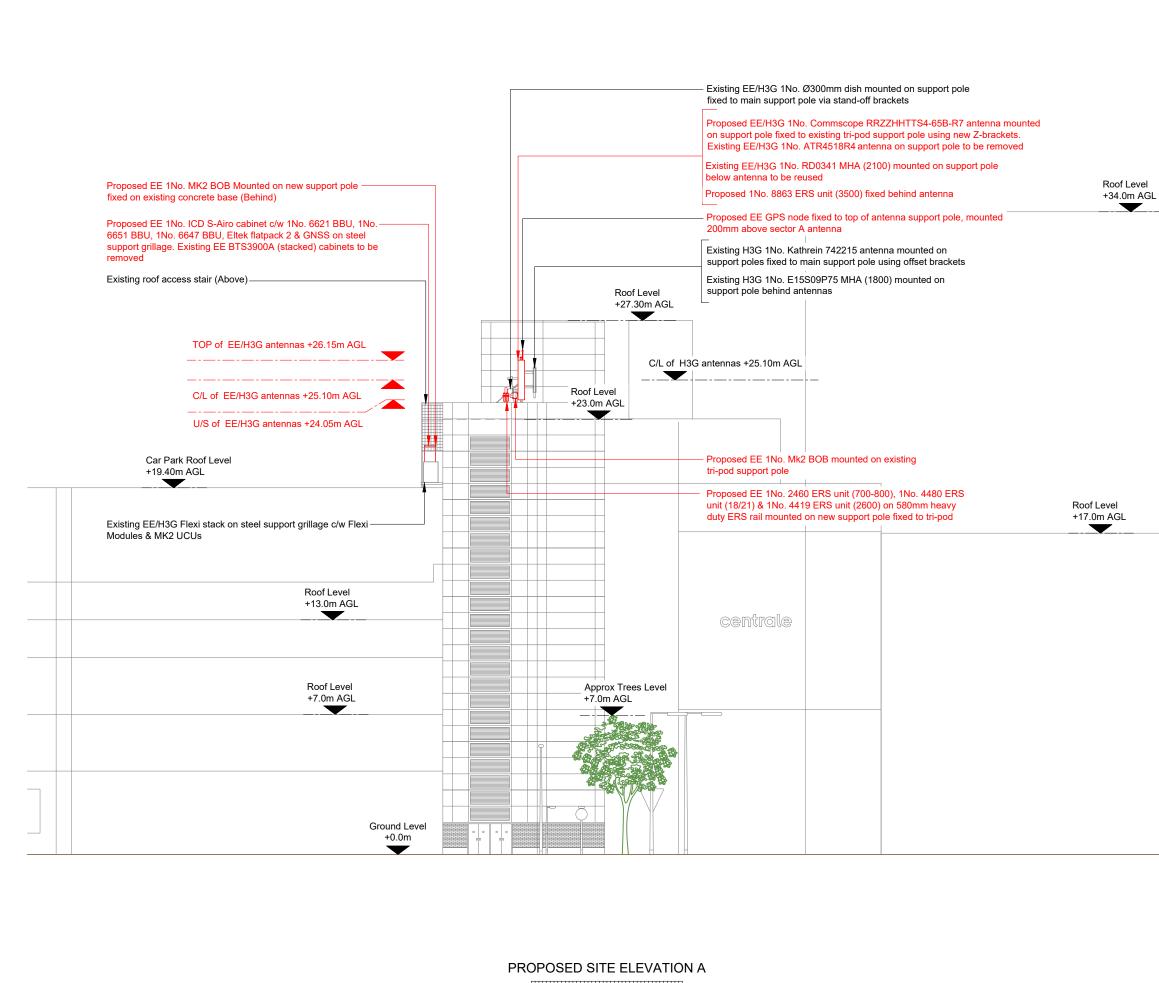




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	NOTES: 1. ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.					
	Note; All existing feeder/fibre cables to be re-used. Subject to testing					
BBU, 1No. EE						
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	Master:         MBNL/E/H3G:         Project:         Purpose of Issue:         Issue:           M002         MBNL         Vendor Swap         Detail Design         A1           Date:         06/11/2023         Revision / Upgrade Description:         Drawn:         DvB           Drawn:         DvB         First Issue         First Issue         First Issue					
,	Checked:         DM           Approved:         KTL           Master:         MBNL / EE / H3G:           Project:         Purpose of Issue:           M001         MBNL           Vendor Swap         Planning           Date:         30/08/2023           Revision / Upgrade Description:           Drawn:         MM           First Issue					
/	Approved: KTL Hatfield Business Park Hatfield Hertfordshire AL10 9BW Tel: 01707 315000 Fax: 01707 319001					
	Design & Principal Consultant:					
	UK Office: UBC Building, 1310 Solihull Parkway, Birmingham Business Park, B37 7YU Email: info@ktl.ie					
	Site Name: CENTRALE SHOPPING CENTRE 2					
	Site ID: 1082862					
	CENTRALE SHOPPING CENTRE NORTH END CROYDON CR0 1TY					
	Title: 150 PROPOSED SITE PLAN					
,	Project: VENDOR SWAP Purpose of Issue:					
	EE Cell ID: MBNL Cell ID: 3UK Cell ID:					
/	50961         CDN002         CR0137           Master Drawing No:         1082862_CDN002_50961_CR0137_M002         Issue:					
	1002002_0D14002_0001_CR0101_INI002 AI					



NOTES:							
1. ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.							
Master:         MBNL / EE / H3G:           M002         MBNL           Date:         06/11/2023	Project: Vendor Swap Revision / Upgrade Description:	Purpose of Issue: Detail Design	A1				
Drawn: DvB Checked: DM Approved: KTL	First Issue						
Master: MBNL/EE/H3G: M001 MBNL	Project: Vendor Swap	Purpose of Issue: Planning	Issue: A				
Date:         30/08/2023           Drawn:         MM           Checked:         DvB	Revision / Upgrade Description: First Issue	I					
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÷	AL10						
	Tel: 0	1707 315000					
		1707 319001					
Design & Principal Co	nsultant:						
UK Office: UBC Building, 1310 Birmingham Busine		Tel: +44 (0)1908 3 Email: info@ktl.ie	77 766				
Site Name:							
	ALE SHOPPIN	IG CENTRE	2				
Site ID:	108286	2					
Address:			_				
CENT	RALE SHOPPII NORTH EN		=				
	CROYDO CR0 1TY						
Title: 200 EX	ISTING SITE E	LEVATION	A				
Project:	VENDOR SV	VAP					
EE Cell ID:	MBNL Cell ID:	3UK C	Cell ID:				
50961 Master Drawing No:	CDN002	2 CR0	137				
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<sup>0</sup> 1:200 <sup>5m</sup>

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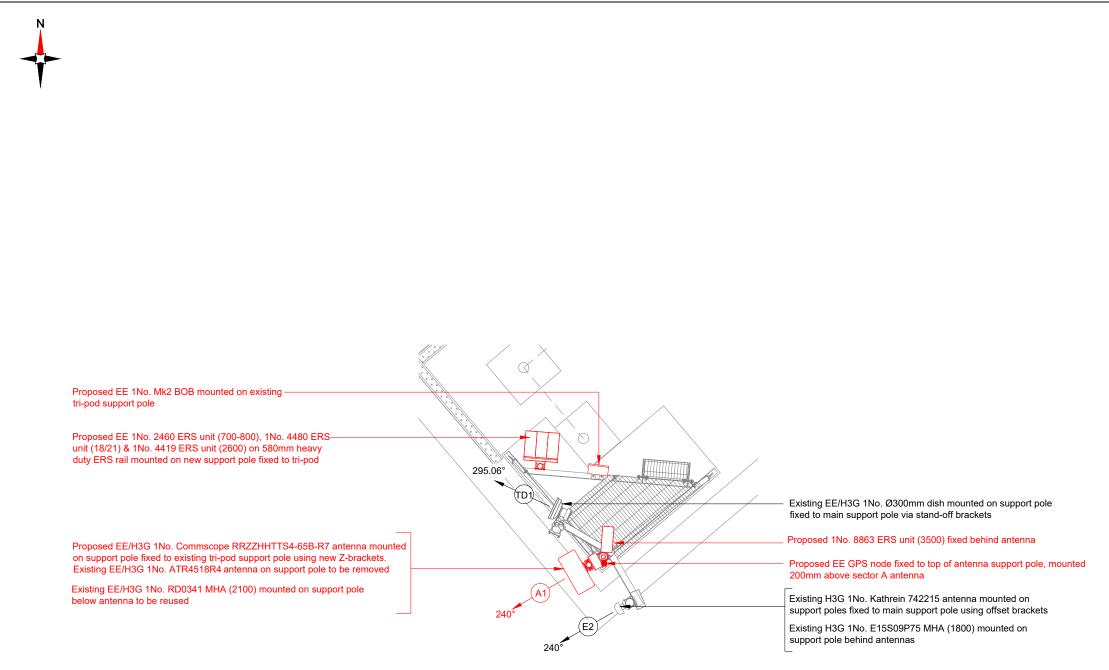
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NOTES:							
NOTES: 1. ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.							
	Note; All existing feeder/fibre cables to be re-used. Subject to testing						
Master: MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:				
	Vendor Swap Revision / Upgrade Description:	Detail Design	A1				
Drawn: DvB Checked: DM	First Issue						
Approved:         KTL           Master:         MBNL / EE / H3G:           M001         MBNL	Project: Vendor Swan	Purpose of Issue:	Issue:				
Date: 30/08/2023	Vendor Swap Revision / Upgrade Description:	Planning	A				
Drawn: MM Checked: DvB Approved: KTL	First Issue						
	Hatfie	eld Business Pa	ark				
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	AL10	ordshire 9BW					
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Design & Principal Con	sultant:						
UK Office: UBC Building, 1310 Birmingham Busines		Tel: +44 (0)1908 3 Email: info@ktl.ie	77 766				
	ALE SHOPPIN	G CENTRE	2				
Site ID:	108286	2					
Address: CENTRALE SHOPPING CENTRE NORTH END CROYDON CR0 1TY							
Title: 250 PRO	POSED SITE	ELEVATION	I A				
Project:	VENDOR SV	VAP					
Purpose of Issue:		-	cell ID:				
50961 Master Drawing No:	CDN002						
-	N002_50961_CR0	137_M002	A1				



#### PROPOSED ANTENNA & RRU PLAN

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NOTES:			
1. ALL DIMENS	IONS IN MM UNLESS O	THERWISE NOTED	).
Master: MBNL/EE/H3G: M002 MBNL	Project: Vendor Swap	Purpose of Issue: Detail Design	A1
Date:         06/11/2023           Drawn:         DvB           Checked:         DM	Revision / Upgrade Description: First Issue		
Approved: KTL Master: MBNL / EE / H3G: M001 MBNL	Project: Vendor Swap	Purpose of Issue: Planning	Issue:
Date:         30/08/2023           Drawn:         MM           Checked:         DvB	Revision / Upgrade Description: First Issue		
Checked: DvB Approved: KTL	Hatfie	eld Business Pa	ark
	Hatfie		IIK
	AL10		
	Tel: 0	1707 315000	
	Fax: 0	1707 319001	
Design & Principal Co	nsultant:		
UK Office:			
UBC Building, 1310 Birmingham Busine		Tel: +44 (0)1908 3 Email: info@ktl.ie	77 766
Site Name: CENTR	ALE SHOPPIN	IG CENTRE	2
Site ID:	108286	2	
Address:	100200	2	
CENT			Ξ
	NORTH EN CROYDO		
	CR0 1TY		
Title: 310 AN	ITENNA PLAN	& RRU PLA	N
Project:	VENDOR SV	VAP	
Purpose of Issue:	ETAILED DE	ESIGN	
EE Cell ID: 50961	MBNL Cell ID:		
Master Drawing No:	N002_50961_CR0		Issue: A1

ANTENNAS	FEEDER/FIBRE	
	EXISTING ANTENNA SCI	HEDULE

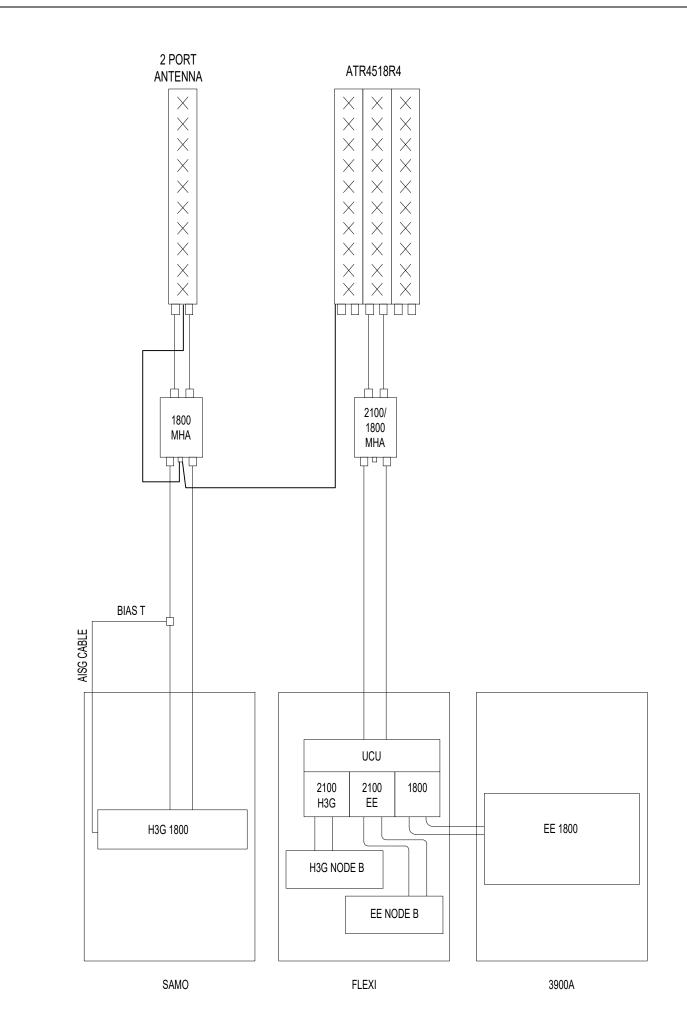
	ANTENNAS FEEDER/						R/FIBRE							В	OBS / MHA's / RRU's	/ JUMPER	S / ROUTERS							
	Antenna Manufacturer		3earing (°)	rator	um Port nber	eployed		Ту	pe & Length(r	n)		Main Feeder Type	Main Feeders QTY	ink Length	ow Level / TYPE	BOB length (m)	High Level Y / Type	RRU / AAU Igth (m)	RU / AAU Type to led off)	Antenna th (m)	\ Type	e Router Level)	Router Level)	OAX Loss (db)
ID	& Type	TOP C/L U/S	Antenna E	Ope	Spectrun	Tech D	Low level Jumper	Main Feeder	High Level Jumper 1 (MHA)	High Level Jumper 2 (router/ combiner)	Total	(COAX or Fibre)		Fibre Tru	BOB Lo QTY /	BBU to B (r	BOB Hi QTY	BOB to R Leng	RFU / RRU / (RRU Typ be called o	RRU to Ar Length	ΨΗW	Passive (Low	Active (High	CC Feeder L
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E1	ATR4518R4	25.1	240°	EE/H3G	3 - 4	1800/2100	4-50 =2m	5-50 =26m	4-50 =2m	-	30m	COAX	2No. Existing	-	-	-	-	-	RFU	-	RD0341	-	-	-1.83
				-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E2	Kathrein 742215	25.10	240°	H3G	1 - 2	1800	4-50 =2m	78-50 =26m	4-50 =2m	-	30m	COAX	2No. Existing	-	-	-	-	-	RFU	-	E15S09P75	-	-	-1.68

10mm | 10mm | 1

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Antenna Status /				
Additional comments				
Remove				
Remain				
		Destants	Durran of laws	1
	Master: MBNL / EE / H3G: M002 MBNL	Project: Vendor Swap	Purpose of Issue: Detail Design	A1
	Date:         06/11/2023           Drawn:         DvB           Checked:         DM	Revision / Upgrade Description: First Issue		
	Approved: KTL Master: MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
	M001 MBNL Date: 30/08/2023	Vendor Swap Revision / Upgrade Description:	Planning	A
	Drawn: MM Checked: DvB	First Issue		
	Approved: KTL	Hatfie	eld Business Par	k
	E	Hatfie	eld	ĸ
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			1707 315000	
	Design & Principal Co		1707 319001	
	Design & Findpar Co	nsultant.		
	UK Office: UBC Building, 1310	) Solihull Parkway,	Tel: +44 (0)1908 37	7 766
	Birmingham Busine	ess Park, B37 7YU	Email: info@ktl.ie	
	Site Name: CENTR	ALE SHOPPIN	IG CENTRE 2	2
	Site ID:	108286	2	
	Address:	100200	2	
		RALE SHOPPII	NG CENTRE	
		NORTH EN	1D	
		CROYDO		
		CR0 1TY		
	Title: 320 EXIS		NA SCHEDUI	E
	Project:	VENDOR SV		
	Purpose of Issue:			
	EE Cell ID:	MBNL Cell ID:	3UK Cel	I ID:
				127
	50961 Master Drawing No:	CDN002 N002_50961_CR0	ls	137 <sup>sue:</sup> A1





Master: M002	MBNL/EE/H3G: MBNL	Project: Vendor Swap	Purpose of Issue: Detail Design	A1
Date: Drawn: Checked: Approved:	06/11/2023 DvB DM KTL	Revision / Upgrade Description: First Issue		
Master: M001	MBNL/EE/H3G: MBNL	Project: Vendor Swap	Purpose of Issue: Planning	Issue: A
Date: Drawn: Checked: Approved:	30/08/2023 MM DvB KTL	Revision / Upgrade Description: First Issue		
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			ordshire	
	i		1707 315000 1707 319001	
Design &	& Principal Co	nsultant:		
UK O				
		) Solihull Parkway, ess Park, B37 7YU	Tel: +44 (0)1908 3 Email: info@ktl.ie	// /66
Site Nan		ALE SHOPPIN	G CENTRE	2
Site ID:		108286	2	
Address				_
	CENT	RALE SHOPPII NORTH EN	1D	=
		CROYDO CR0 1TY		
Title:				
3 Project:	25 EXIS	TING LINE CO		ION
Purpose of		VENDOR SV		
	EE Cell ID:	MBNL Cell ID:		Cell ID:
5 Master Dra	50961 awing No:	CDN002	2 CR0	137 Issue:
		N002_50961_CR0	137_M002	A1

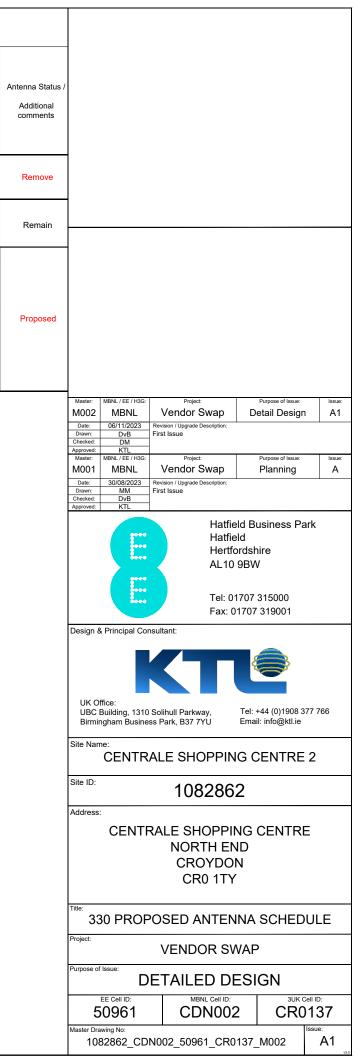
		ANTE	NAS							FEEDE	R/FIBRE							B	OBS / MHA's / RRU's	/ JUMPER	S / ROUTERS			
Antenna	a Antenna Manufacturer		3earing (°)	Operator	Spectrum Port number	eployed		Ту	be & Length(r	n)		Main Feeder Type	Main Feeders QTY	nk Length	BOB Low Level QTY / TYPE	BBU to BOB length (m)	BOB High Level QTY / Type	BOB to RRU / AAU Length (m)	RFU / RRU / AAU (RRU Type to be called off)	RRU to Antenna Length (m)	Type	assive Router (Low Level)	Active Router (High Level)	COAX Feeder Loss (db)
ID	& Type	TOP C/L U/S	Antenna Bearing	Ope	Spectru	Tech De	Low level Jumper	Main Feeder	High Level Jumper 1 (MHA)	High Level Jumper 2 (router/ combiner)	Total	(COAX or Fibre)	Existing / Proposed	Fibre Tru	BOB Lo QTY /	BBU to B (r	BOB Hi QTY	BOB to R Lengt	RFU / RF (RRU <sup>-</sup> be call	RRU to	MHM	Passive (Low I	Active (High	CO Feeder L
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E1	ATR4518R4	25.1	240°	EE/H3G	3 - 4	1800/2100	4-50 =2m	5-50 =26m	4-50 =2m	-	30m	COAX	2No. Existing	-	-	-	-	-	RFU	-	RD0341	-	-	-1.83
				-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E2	Kathrein 742215	25.10	240°	H3G	1 - 2	1800	4-50 =2m	78-50 =26m	4-50 =2m	-	30m	COAX	2No. Existing	-	-	-	-	-	RFU	-	E15S09P75	-	-	-1.68
				EE	1 - 2	700-800												2.0m	2460 ERS	2.0m	-	-	-	-0.13
				EE	3 - 4	700-800	-	-	-	-	-							2.0m	2400 ERS	2.0m	-	-	-	-0.13
				EE	5 - 6	1800/2100		_		_		Multicore Fibre	1No. Proposed	30m	MK2 BOB	3m	MK2 BOB	2.0m	4480 ERS	2.0m	-	-	-	-0.22
	Commscope	26.15		EE	7 - 8	1000/2100	-	-	-	-	-	Fibre						2.0m	400 210	2.0m	-	-	-	-0.22
A1	RRZZHHTTS4-65B	25.10	240°	EE	9 - 10	2600	-	-	-	-	-							2.0m	4419 ERS	2.0m	-	-	-	-0.24
	-R7	24.05		EE	11 - 12	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				EE	13 - 14	2100	4-50 =2m	5-50 =26m	4-50 =2m	-	30m	-	-	-	-	-	-	-	RFU	-	RD0341	-	-	-1.83
				EE	15 - 16	2600	-	-	-	-	-	Multicore Fibre	1No. Proposed	30m				2.0m	4419 ERS	2.0m	-	-	-	-0.24
				EE	17 - 25	3500	-	-	_	_	-	Single mode 8	1No. Proposed	30m	MK2 BOB	3m	MK2 BOB	2.0m	8863 ERS	2.0m	_	_	<u> </u>	-0.28

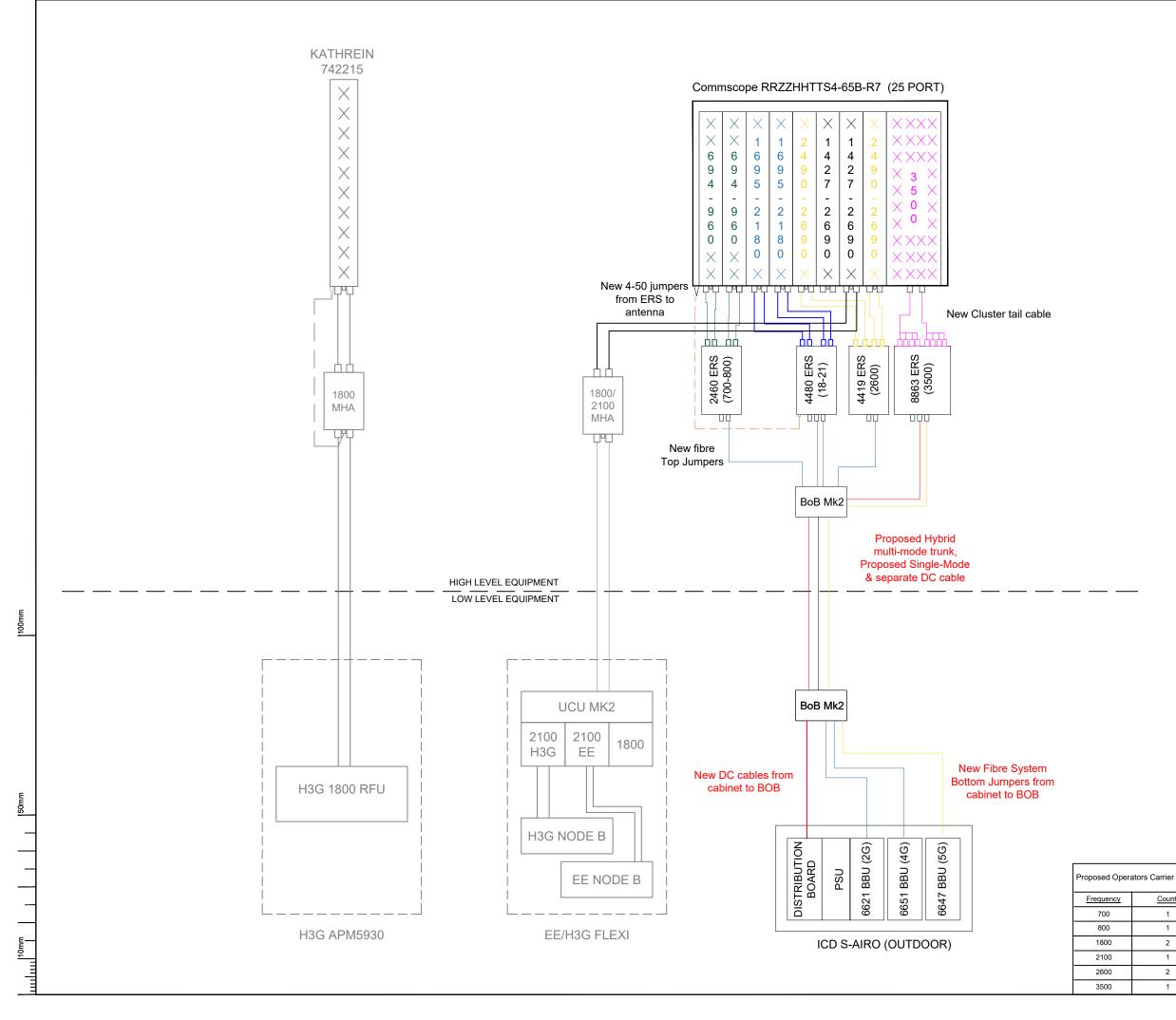
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	iption		Li	ne Style							
Propose	ed 800										
Propose	ed 3G 1800/21	00									
		100									
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-											
Propose	d Power Cable	es									
Propose	d Single Mode	e Fibre									
-		ibre / Hybrid Trunking									
RET Ca	bles										
Master: M002 Date: Drawn: Checked: Approved: M001 Drawn: Checked: Approved:	MBNL / EE / H3G: MBNL 06/11/2023 DVB DM KTL 30/08/2023 MM DVB KTL 00/08/2023	Hatfie Hertfo	ld ordshire	Issue: A							
Design 8	Principal Cor	nsultant:									
Birmir	ngham Busine		Tel: +44 (0)1908 3 Email: info@ktl.ie	377 766							
Cite ID:	CENTR	ALE SHOPPIN	G CENTRE	2							
		108286	2								
Address:		NORTH EN CROYDO	ID N	E							
	5 PROP	OSED LINE CO	ONFIGURA	TION							
Project:		VENDOR SV	VAP								
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			Cell ID: 0137								
	-	N002_50961_CR0	137_M002	A1							
	Propose Propose Propose Propose Propose Propose Propose Propose RET Ca Drawn: Checked: Approved: Drawn: Checked: Approved: Drawn: Checked: Approved: Drawn: Checked: Approved: Site ID: Site ID: Site ID: Site ID: Address:	Proposed 3G 1800/21 Proposed 3G 1800/21 Proposed LTE 1800/2 Proposed 2600 Proposed 3400-3600 Existing Feeders, Jum Proposed Feeders, Jum Proposed Feeders, Jum Proposed Single Mode Proposed Single Mode Proposed Multimode F RET Cables            Master:         MBNL / EE / H3C:           M002         MBNL           Date:         06/11/2023           Drawn:         DvB           Approved:         KTL           Jate:         06/11/2023           Drawn:         DvB           Approved:         KTL           Jate:         03/08/2023           Drawn:         MBNL           Date:         03/08/2023           Drawn:         MM           Checked:         DvB           Approved:         KTL           Jate:         30/08/2023           Drawn:         MM           Checked:         DvB           Approved:         KTL           Jate:         30/08/2023           Drawn:         MM           CENTR         Site ID:           Address:         CENTR           Site ID:         Address:           CENTF         Stop961           Master Drawing No:         Mo	Proposed 800 Proposed 3G 1800/2100 Proposed 2600 Proposed 2600 Proposed 2600 Existing Feeders, Jumpers, Equipment Proposed Power Cables Proposed Single Mode Fibre Proposed Multimode Fibre / Hybrid Trunking RET Cables  UK Office: UK	Proposed 300							

3.0 Support Structure Schedule												
Support Structure Schedule												
Structure ID	Status	Len	eight / gth AGL (m)	Structure Manufacturer	Description / Type	Colour / Finishing (RAL Colour)	Size	(mm)	Foundation / Support Grillage / Host Structure Details	t	Comments	
ST1	Existin	g	-	-	Tri-pod	Galvanised		-	Free-Standing	1No.		
ST2	Existin	g 2	5.10m	Bespoke	Antenna Support Pole	Galvanised	Ø60.	.3x3.0	Free-Standing	1No.		
ST3	Existin	g	-	-	Offset brackets	Galvanised		-	Free-Standing	2No.		
ST4	Propose	ed 2	5.10m	Bespoke	Antenna Support Pole	Galvanised	Ø76.	1x5.0	Free-Standing	1No.		
ST5 ST6	Propose Propose		- 5.10m	- Bespoke	Z-brackets ERS Support pole	Galvanised Galvanised		- .9x3.2	Free-Standing Free-Standing	2No. 1No. 1500mm		
	1						Equipr	nent S	chedule			
Equipment ID	Operator	Quantity	Status	Equipment Manufacturer	Equipment Description / Type	Dimensions (W x D x H)	Weight (kg)	Colou (RAL Col		ation	Comments	
CAB1	EE/H3G	1	Existing	Portastor	MK3 Link AC	600x500x1240	250kg	RAL 703		llage	-	
CAB2	EE/H3G	1	Existing	Nokia	Flexi Stack	492x560x1300	250kg	RAL 703		llage	c/w Flexi Modules & MK2 UCU	
CAB3	H3G	1	Existing	Huawei	OFS5906 'L' rack	750x750x600	250kg	RAL 703		llage	-	
CAB4	H3G	1	Existing	Huawei	APM5930	480x600x1000	250kg	RAL 703		llage	-	
CAB5	EE	2	Remove	Huawei	BTS 3900A (Stacked)	600x480x1400	250kg	RAL 703		llage	-	
CAB6 ERS1	EE	1	Proposed Proposed	ICD Ericsson	S-AIRO 2460 ERS Unit	600x600x2100 398x190x553	250kg 37.5kg	RAL 600 RAL 703		llage ding Frame	- For 700/800 technology	
ERS2	EE	1	Proposed	Ericsson	4480 ERS Unit	553x398x151	37.5kg 32.5kg	RAL 70		ding Frame	For 1800/2100 Technology	
ERS3	EE	1	Proposed	Ericsson	4419 ERS Unit	477x898x153	21kg	RAL 70		ding Frame	For 2600 Technology	
ERS4	EE	1	Proposed	Ericsson	8863 ERS Unit	343 x146x495	20.7kg	RAL 703		ding Frame	For 3500 Technology	
BT1	EE	1	Proposed	Commscope	MK2 BOB	300x300x150	10kg	RAL 703	5 Free-Stan	ding Frame	· · ·	
BB1	EE	1	Proposed	Commscope	MK2 BOB	300x300x150	10kg	RAL 703	35 Gri	llage	-	
AMP1	EE/H3G	1	Existing	Radio Design	RD0341 MHA	96x230x169	5kg	RAL 703	35 Structure	High Level	For 2100	
AMP2	H3G	1	Existing	Commscope	E15S09P75	227x56x225	4.5kg	RAL 703	35 Structure	High Level	For 1800	
BBU 1	EE	1	Proposed	Ericsson	6621 BBU	447x350x44.5	6kg	RAL 703		Cabinet	2G BBU within S-AIRO	
BBU 2	EE	1	Proposed	Ericsson	6651 BBU	447x352x44.5	7.5kg	RAL 703		Cabinet	4G BBU within S-AIRO	
BBU 3	EE	1	Proposed	Ericsson	6647 BBU	447x352x44.5	7.5kg	RAL 703		Cabinet	5G BBU within S-AIRO	
REC1	EE	1	Proposed	Rosenberger	GNSS Receiver	78x78x95	-	RAL 703	35 Within	Cabinet	within S-AIRO	
							GPS N	ODE S	chedule			
Equipment ID	Supply Status	0	perator	Height (C/L) AGL	Cable Length	Cable type	Locati	ion			Comments	
GPS1	Proposed		EE	26.30m	25m	4-50	Secto	r A	GPS Node fixed abo	ove EE antenna a	at Sector A	

STATUS KEY:								
Installed: Retain: Relocate: Remove: Proposed:	Existing Existing and to rer Existing and to be Existing to be rem New on site	relocated						
LOCATION KEY:								
Outdoor:	Located outside							
Indoor:	Located within an equipment cabin or equipment room located inside a cabinet or item of							
Internal:	located inside a ca	abinet or item of						
Master: MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:					
	Vendor Swap Revision / Upgrade Description:	Detail Desigr	n A1					
Drawn: DvB Checked: DM Approved: KTL	First Issue							
Master: MBNL / EE / H3G: M001 MBNL	Project: Vendor Swap	Purpose of Issue: Planning	Issue: A					
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Design & Principal Cons	sultant:							
UK Office:								
UBC Building, 1310 S Birmingham Busines		Tel: +44 (0)1908 3 Email: info@ktl.ie	77 766					
Site Name: CENTRA	LE SHOPPIN	G CENTRE	2					
Site ID:	108286	2						
Address:								
CENTR	ALE SHOPPII NORTH EN		=					
	CROYDO							
	CR0 1TY							
	QUIPMENT SC							
 SUPPO Project:	NENDOR SV		S					
Purpose of Issue:	VENDOR SV	VAP						
			Cell ID:					
50961 Master Drawing No:	CDN002							
	1002_50961_CR0	137_M002	A1					

								AC F	Power Sch	edule		
Equipment ID	Supply Status	Operator	Тур	be Incomi	ng Supply Typ		ervice head / ation	/ Ma	ibution Board anufacturer / internal rooms)	Upgrade Required (Y / N / TBC at DD)		Comments
MCAB1	Existing	EE/H3G	RE(	C Single	e Phase 100A	Mete	er room		Proteus	N	-	
DB	Existing	EE/H3G	AC	Single	e Phase 100A	MK3 I	Link AC		Hager	N	-	
								DC F	Power Sch	edule		
Supply Stat	itus	Operator	Enclosure / Location	Model	Recti QTY		Upgrade Re (Y/ N / TBC	equired cat DD)				Comments
Existin	ıg	EE/H3G	MK3 Link AC	Eltek Flatpack 2		1.8	N		-			
Propose	ed	EE	S-AIRO	Eltek Flatpack 2	5	2	-		-			
							Trai	nsmiss	sion Supply	y Schedule		
	Supply	Operator	Enclo	sure	Туре:	Suj Ni	pplier ame	U-Sp	ace Available			Comments
Equipment ID	Status						BT		4U			

10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10mm | 10

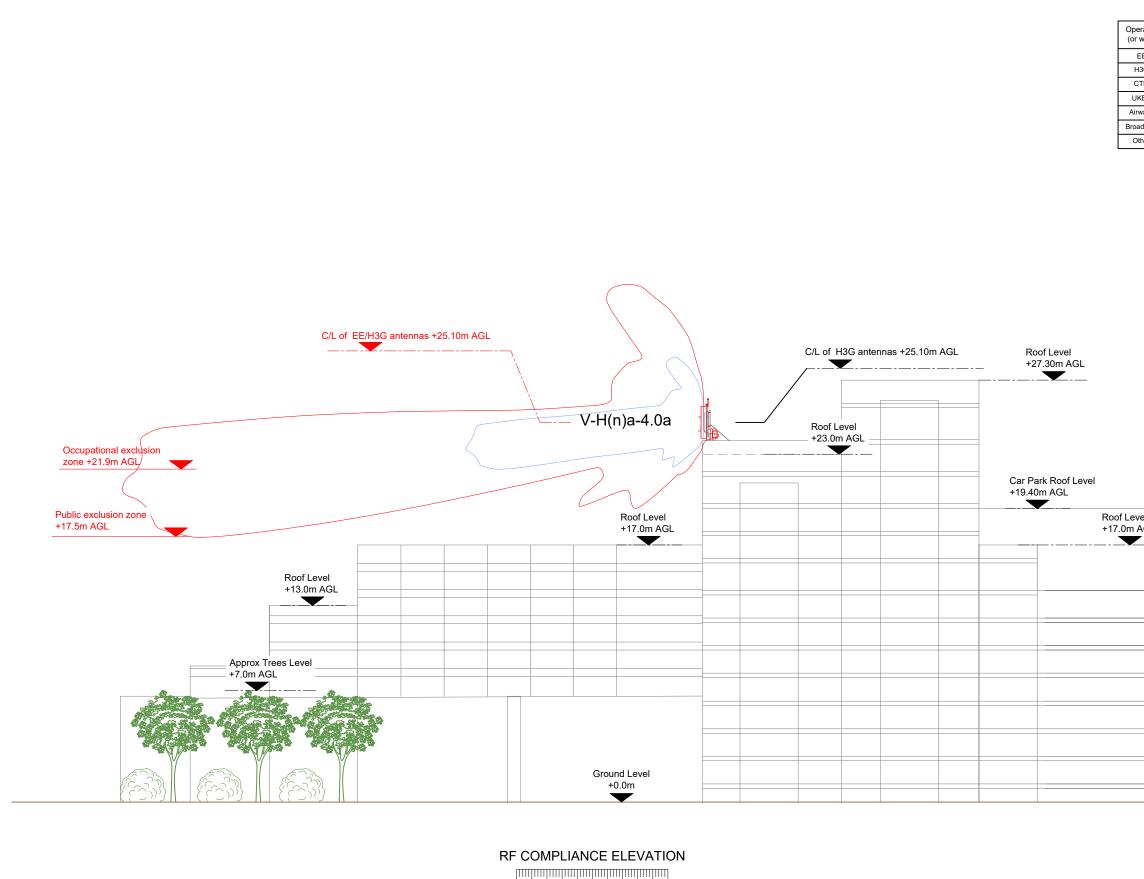
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						Tra	ansmission Dish	Schedule		Site
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	Equipment ID	Supply Status	Size Ø (mm)	Colour (RAL Colour)	Height (C/L) AGL	Bearing (°) EGN	Link Ref:	Relocation height (if required)	Comments (capture lift and shift requirements)	Add
mmO	TD1	Existing	300mm	-	24.50m	295.06°	ML102087	-	-	
ũ										

STATUS KEY:			
Installed: Retain: Relocate: Remove: Proposed:	Existing Existing and to rer Existing and to be Existing to be rem New on site	relocated	
LOCATION KEY:			
Outdoor: Indoor: Internal:	Located outside Located within an equipment room located inside a ca equipment		ı or
Master: MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M002 MBNL	Vendor Swap	Detail Desigr	
	First Issue		
Master: MBNL/EE/H3G: M001 MBNL	Project: Vendor Swap	Purpose of Issue: Planning	Issue:
Date:         30/08/2023         F           Drawn:         MM         F	Revision / Upgrade Description:	·	
Checked: DvB Approved: KTL			
	Hatfie Hertfo AL10 Tel: 0	ordshire	ark
Design & Principal Cons	ultant:		
UK Office:			
UBC Building, 1310 S Birmingham Business Site Name:		Tel: +44 (0)1908 3 Email: info@ktl.ie	877 766
	LE SHOPPIN	IG CENTRE	2
Site ID:	108286	2	
Address:			
 CENTR	ALE SHOPPII NORTH EN		E
	CROYDO CR0 1TY	N	
Title: 401 POWER Project:	& TRANSMIS	SION SCHE	EDULE
	VENDOR SV	VAP	
	TAILED DE		
EE Cell ID: 50961 Master Drawing No:	MBNL Cell ID: CDN002		Cell ID: )137 Issue:
-	1002_50961_CR0	137_M002	A1





	NOTE	ES:			
	1. 2.		BIONS IN MM UNLESS ( D54000 v11.0 FOR MBN		
erators on site within 100m)		GUIDANCE.			
EE Yes					
I3G Yes					
KBB					
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	Master: M002	MBNL/EE/H3G: MBNL	Project: Vendor Swap	Purpose of Issue: Detail Design	Issue: A1
	Date: Drawn:	06/11/2023 DvB	Revision / Upgrade Description: First Issue		
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$\langle \langle \rangle$	M001	MBNL	Vendor Swap	Planning	A
/	Date: Drawn: Checked:	30/08/2023 MM DvB	Revision / Upgrade Description: First Issue		
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				ordshire 9BW	
				0211	
				1707 315000	
	Design	& Principal Co		01707 319001	
	Design		isultant.	-	
	UK O UBC		) Solihull Parkway,	Tel: +44 (0)1908 3	77 766
	Birmi	ngham Busine	ss Park, B37 7YU	Email: info@ktl.ie	
	Site Nar		ALE SHOPPIN	IG CENTRE	2
	Site ID:	021111			-
/	Sile ID.		108286	2	
	Address				_
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/			CROYDO		
/			CR0 1TY		
, ×	Title:				
		500	RF COMPLIAN	NCE PLAN	
	Project:		VENDOR SV	VAP	
/	Purpose o		_		
		EE Cell ID:		ESIGN 3UK C	ell ID:
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	Master Dra 10		N002_50961_CR0		Issue: A1
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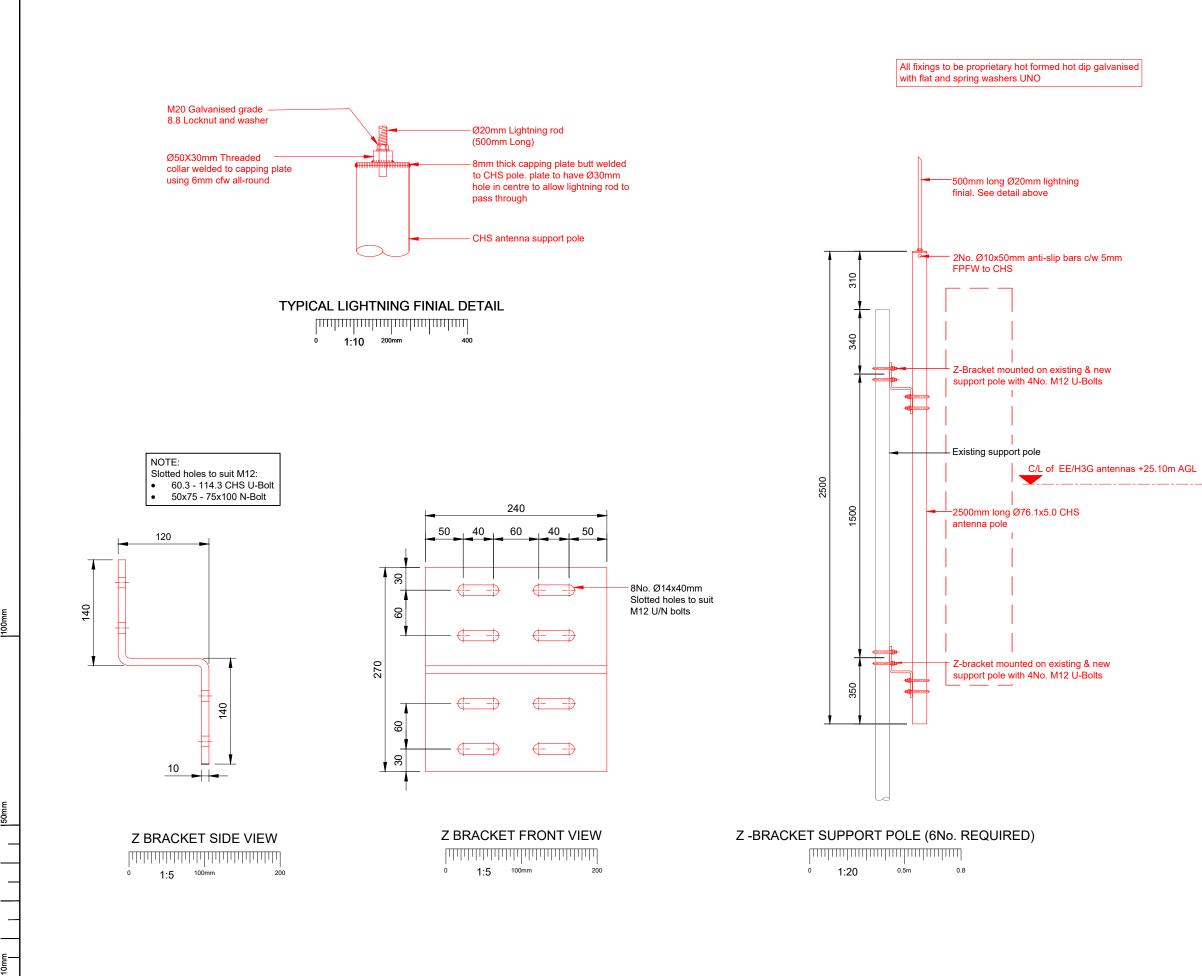


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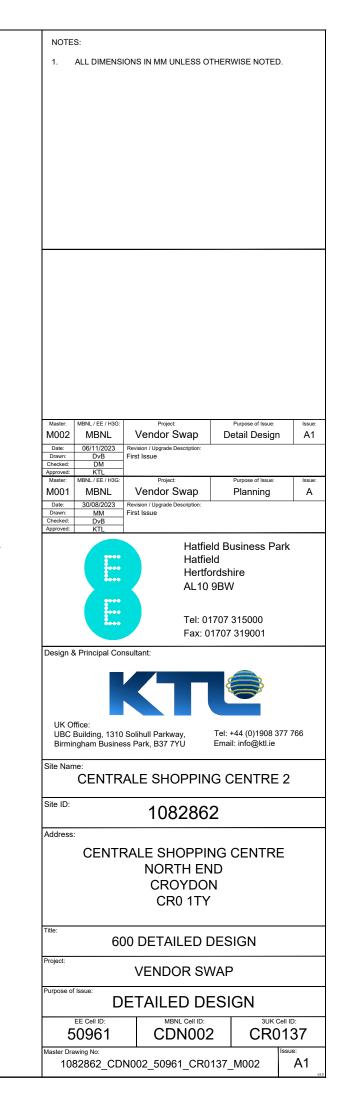
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EE Yes					
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	Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
	M002 Date:	MBNL 06/11/2023	Vendor Swap Revision / Upgrade Description:	Detail Desigr	n A1
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	Approved: Master:	KTL MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
	M001 Date:	MBNL 30/08/2023	Vendor Swap Revision / Upgrade Description:	Planning	A
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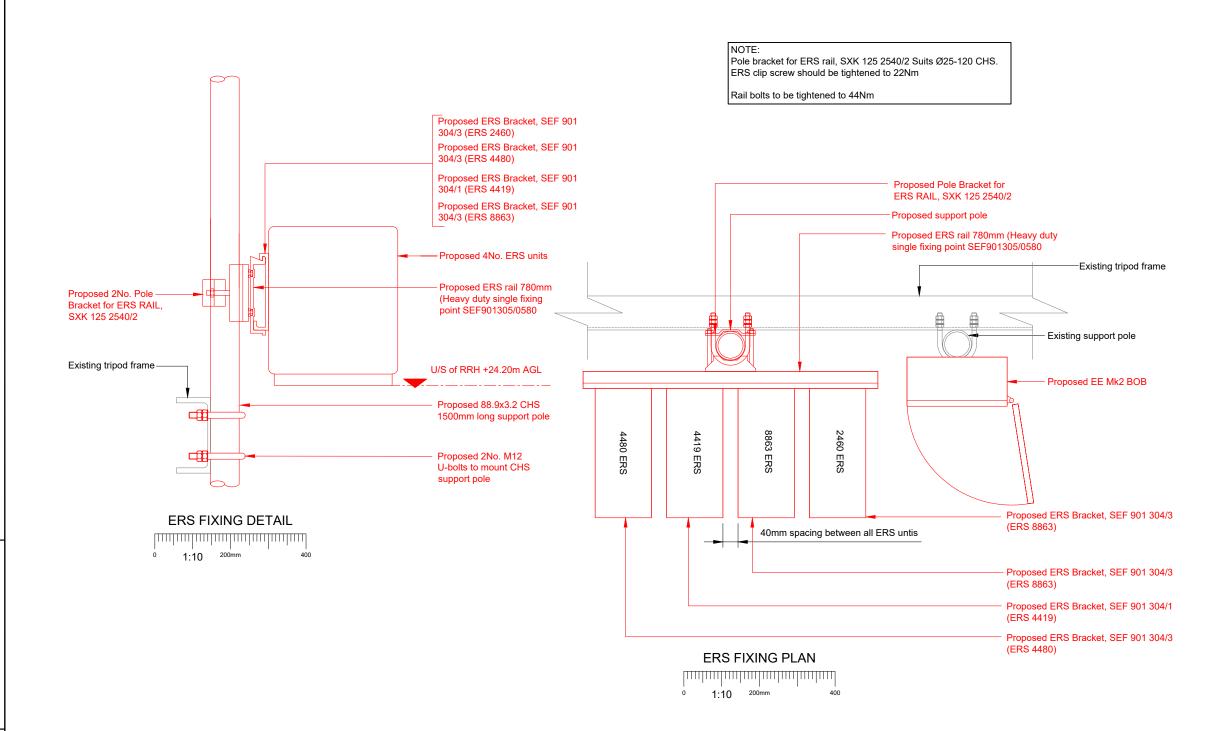


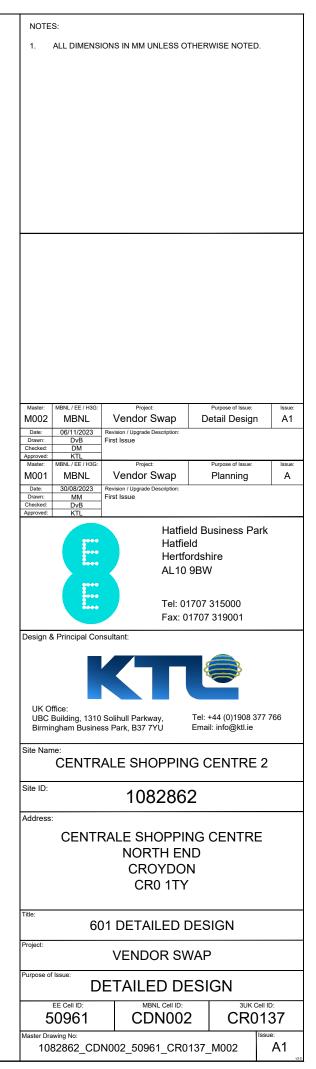
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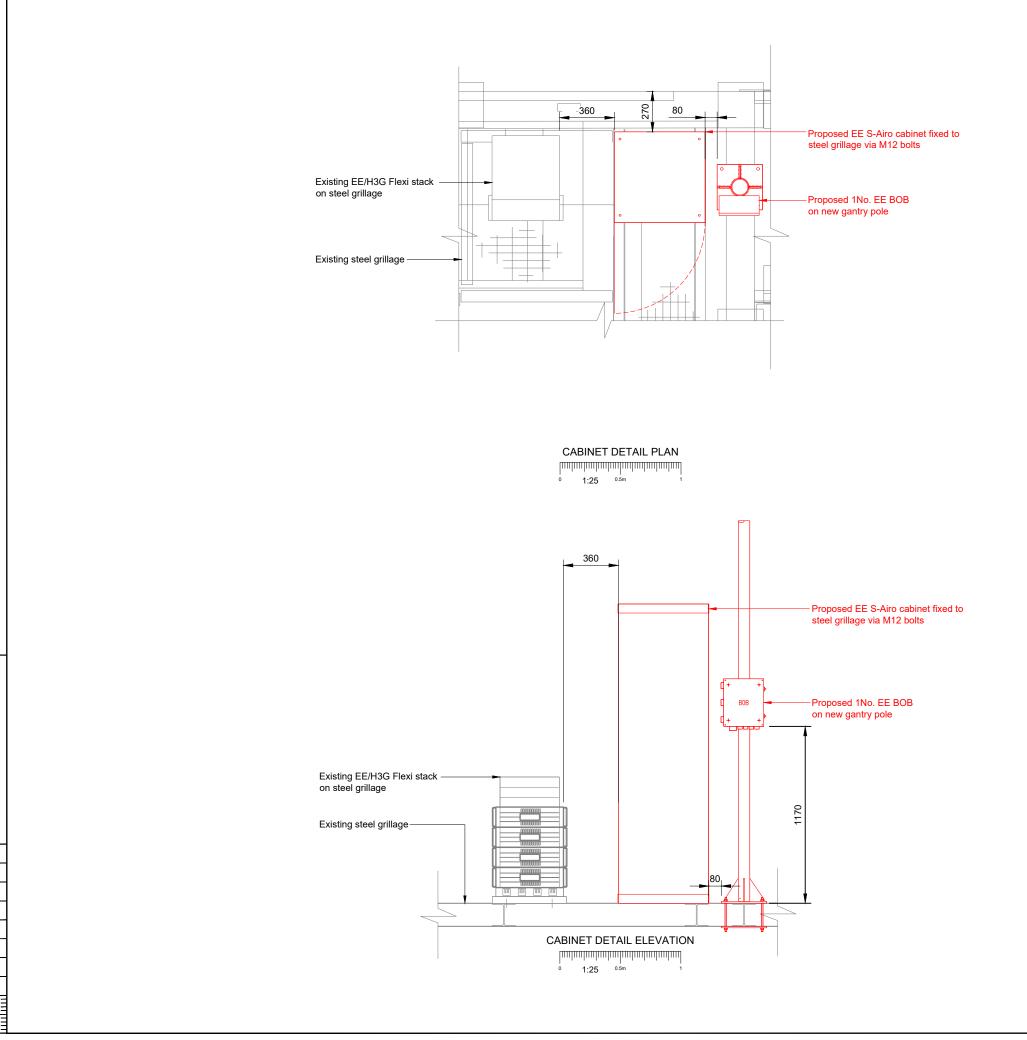
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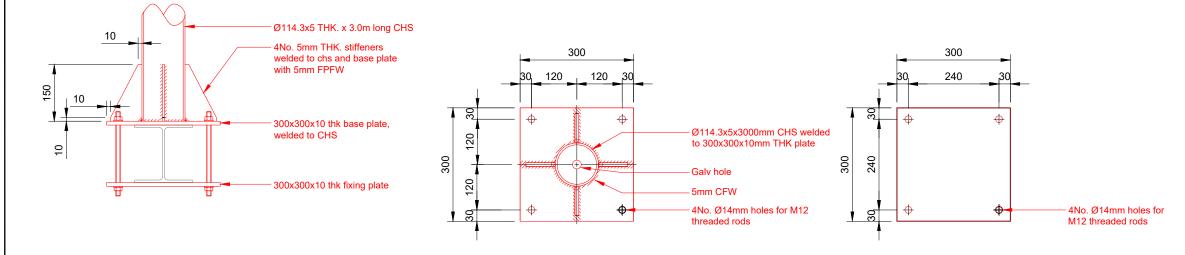






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Date:         30/08/2023           Drawn:         MM           Checked:         DvB	Revision / Upgrade Description: First Issue				
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	Tel: 0'	1707 315000			
Fax: 01707 319001					
Design & Principal Con	isultant:				
UK Office: UBC Building, 1310 Birmingham Busines		Tel: +44 (0)1908 3 Email: info@ktl.ie	77 766		
Site Name:					
CENTR	ALE SHOPPIN	IG CENTRE	2		
Site ID:	108286	2			
Address:					
CENTRALE SHOPPING CENTRE NORTH END					
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#### GANTRY POLE & PLATE FIXING DETAIL

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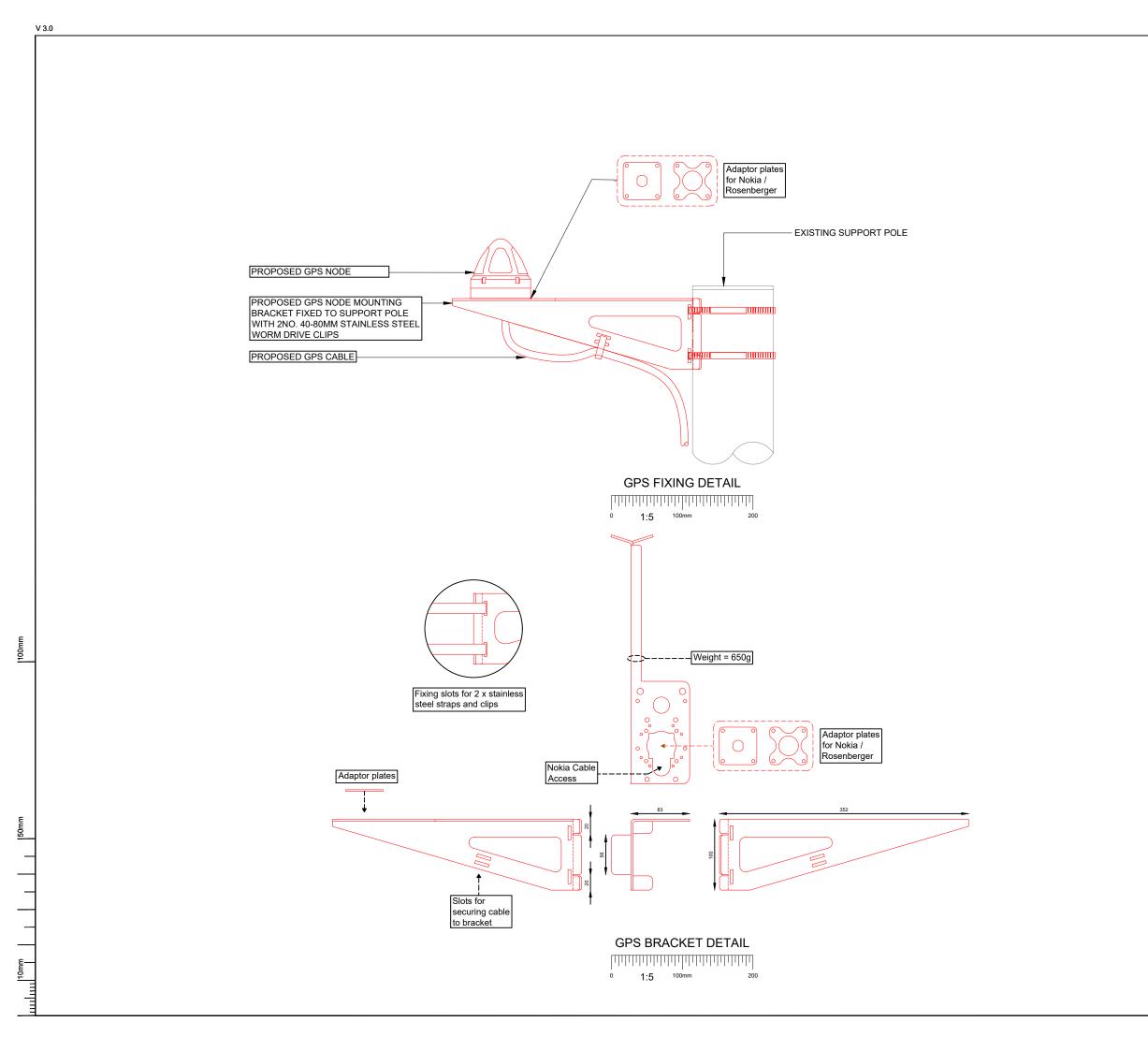
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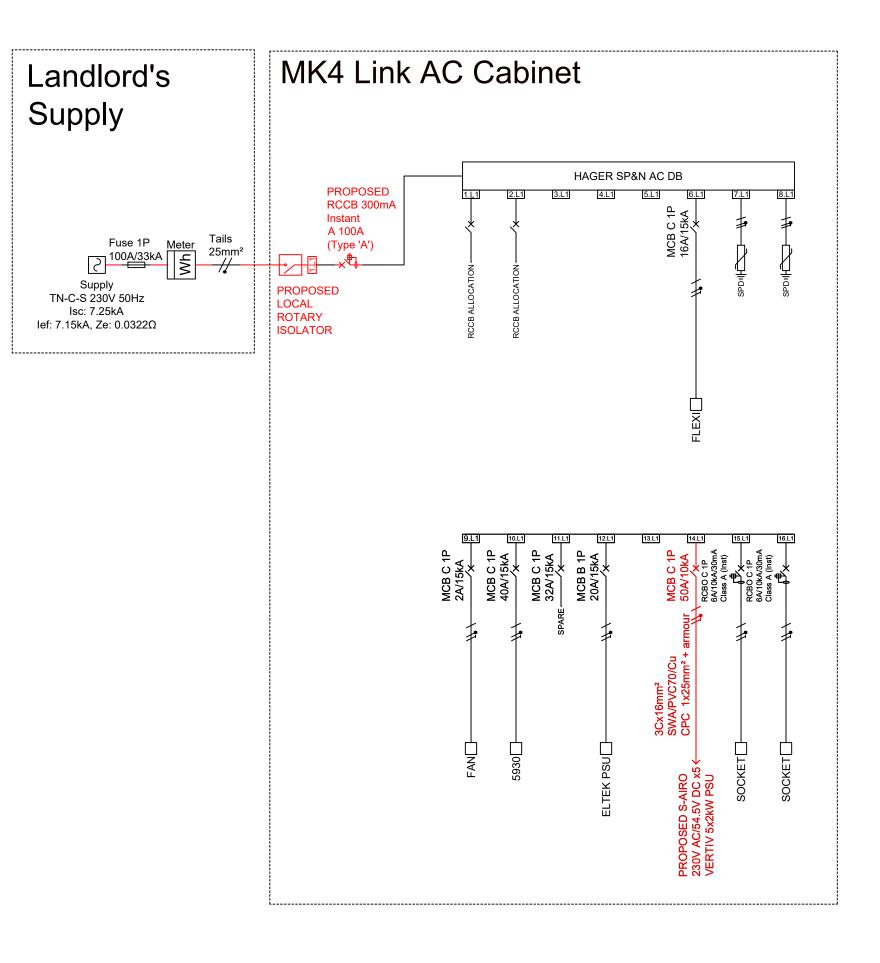
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		1707 315000 1707 319001			
Design & Principal Consultant:					
UK Office: UBC Building, 1310	) Solihull Parkway.	Tel: +44 (0)1908 3	77 766		
UBC Building, 1310 Solihull Parkway, Tel: +44 (0)1908 377 766 Birmingham Business Park, B37 7YU Email: info@ktl.ie					
Site Name: CENTR	ALE SHOPPIN	G CENTRE	2		
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Design & Principal Consultant:					
UK Office: UBC Building, 1310	) Solihull Parkway.	Tel: +44 (0)1908 3	77 766		
UBC Building, 1310 Solihull Parkway, Tel: +44 (0)1908 377 766 Birmingham Business Park, B37 7YU Email: info@ktl.ie					
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AC ELECTRICAL SCHEMATIC N.T.S.

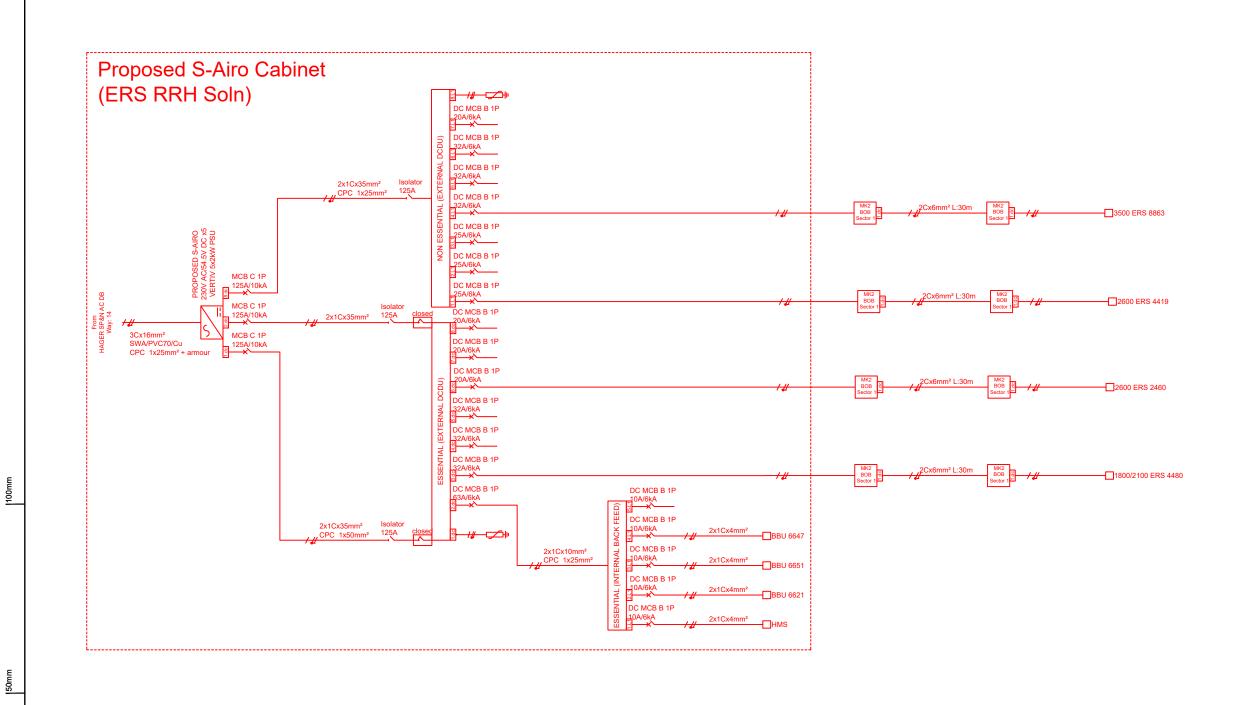
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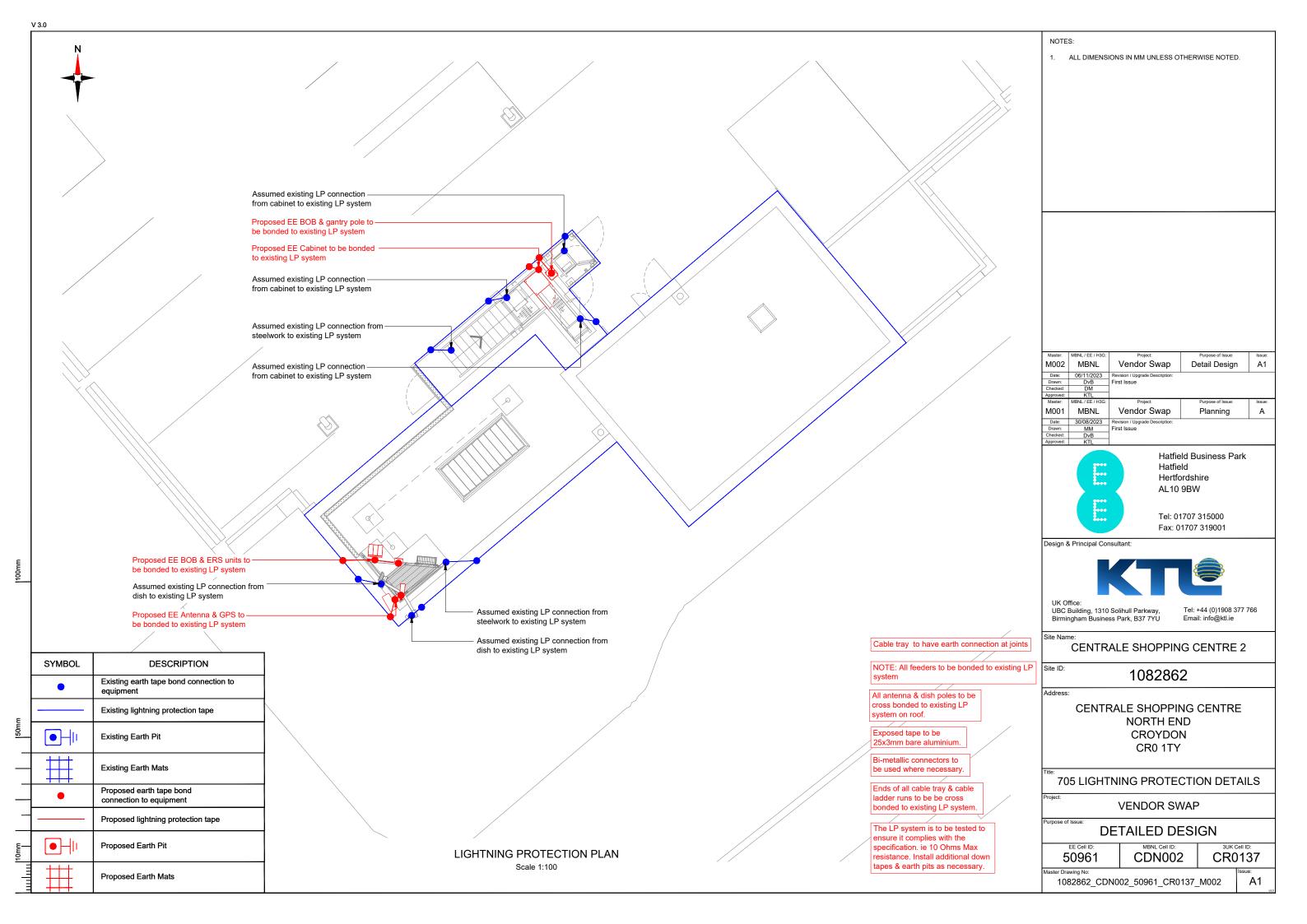
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UK Office:		Tol: +44 (0)1008 3	77 766	
UBC Building, 1310 Solihull Parkway, Tel: +44 (0)1908 377 766 Birmingham Business Park, B37 7YU Email: info@ktl.ie				
Site Name: CENTF	RALE SHOPPIN	IG CENTRE	2	
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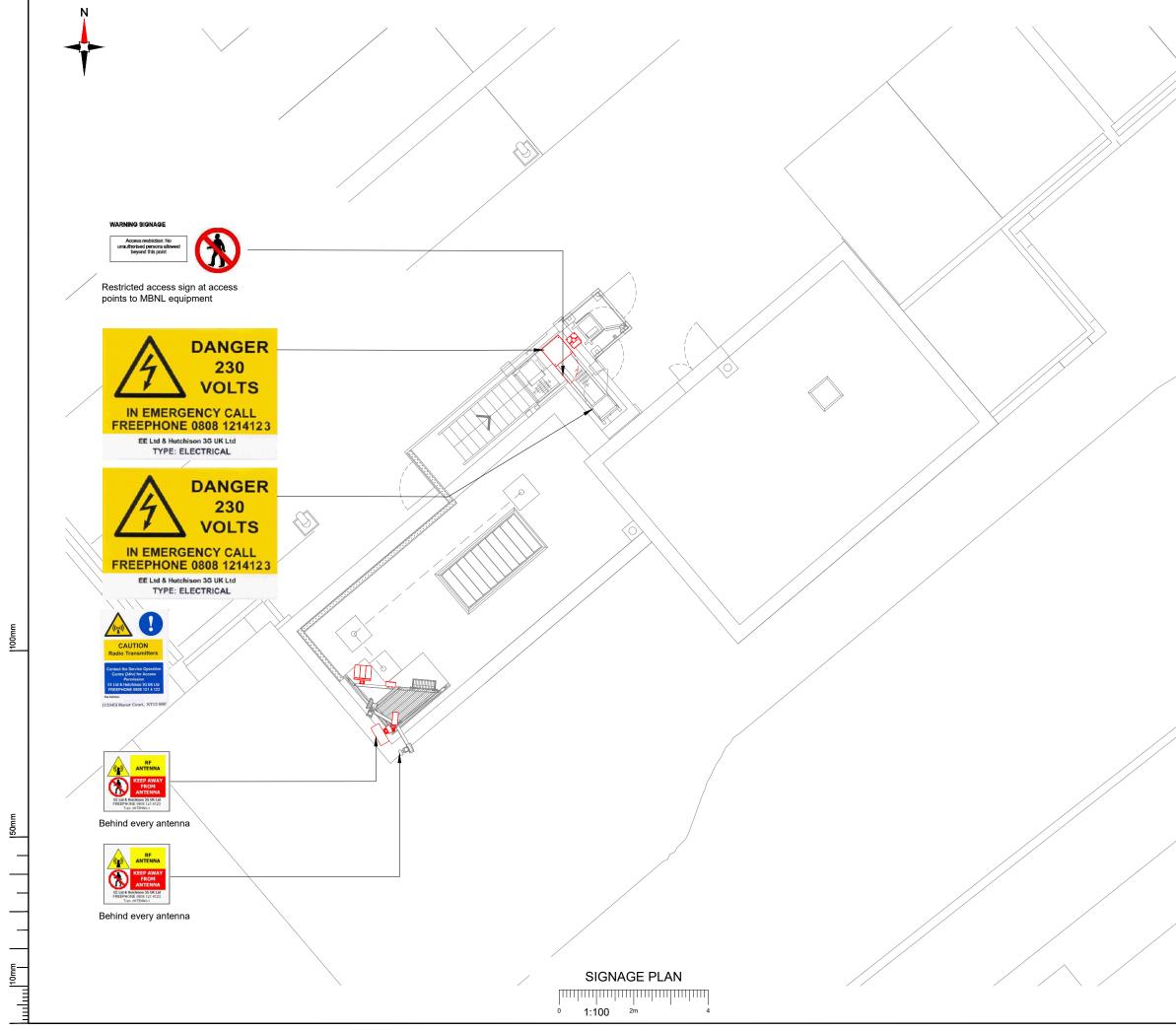


DC 1 ELECTRICAL SCHEMATIC N.T.S.

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Drawn:         DvB           Checked:         DM           Approved:         KTL           Master:         MBNL / EE / H3G	First Issue	Purpose of Issue:	Issue:		
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UBC Building, 1310 Solihull Parkway, Tel: +44 (0)1908 377 766 Birmingham Business Park, B37 7YU Email: info@ktl.ie					
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	NOTES:
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	Date:         30/08/2023         Revision / Upgrade Description:           Drawn:         MM         First Issue
	Checked: DvB Approved: KTL
	Hatfield Business Park Hatfield Hertfordshire AL10 9BW Tel: 01707 315000 Fax: 01707 319001
	Design & Principal Consultant:
/	UK Office: UBC Building, 1310 Solihull Parkway, Tel: +44 (0)1908 377 766 Birmingham Business Park, B37 7YU Email: info@ktl.ie
	Site Name: CENTRALE SHOPPING CENTRE 2
	Site ID: 1082862
/	Address: CENTRALE SHOPPING CENTRE NORTH END CROYDON CR0 1TY
	Title: 800 SIGNAGE PLAN
	Project: VENDOR SWAP
~	Purpose of Issue: DETAILED DESIGN
	EE Cell ID:         MBNL Cell ID:         3UK Cell ID:           50961         CDN002         CR0137
	Master Drawing No: 1082862_CDN002_50961_CR0137_M002 A1

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#### 1.0 General

1.1. Do not scale drawings.

1.2. All dimensions in mm unless noted otherwise

1.3. Not Required

1.4. The contractor shall be responsible for confirming dimensions and levels on site prior to the commencement of construction or fabrication.

1.5. The contractor shall be responsible for setting out the project on site.

1.6. The contractor shall be responsible for the stability and integrity of existing structures and ground profiles within and adjacent to the works, from the date of taking possession of the site until practical completion of the works. The contractor shall be responsible for the design, installation and maintenance of all necessary temporary works to comply with this requirement.

1.7. The contractor shall ensure that tolerances are integrated and co-ordinated throughout the works to ensure the efficient implementation of the works.

1.8. Where the existing weatherproof envelope is pierced to implement the works, the contractor shall be responsible for ensuring that ingress of water does not occur during the construction period.

1.9. Deviations between site dimensions, levels or existing details to those shown on the drawings shall be brought to the attention of the Engineer for comment and resolution.

1.10. Preparation, handling and application of the proprietary products shall be all in accordance with the recommendations of the product manufacturer, Health and Safety legislation and the specifications and details of the Engineer. Where contradictions occur between these requirements, reference should be made to the Engineer for resolution.

1.11. Where specific proprietary products are referenced an equal product approved by the engineer may be substituted, unless noted otherwise.

2.0. Fasteners and Connections - Steel to Steel

2.1. All bolts shall be M16 grade 8.8 unless noted otherwise.

Incorporating fully threaded length bolts :

Bolt to BS EN ISO 4017, nut to BS EN ISO 4032 (Class 8) and washer to BS EN ISO 7091 (100HV).

Incorporating part threaded length bolts:

Bolt to BS EN ISO 4014, nut to BS EN ISO 4032 (Class 8) and washer to BS EN ISO 7091 (100HV).

2.2. All bolts shall be Galvanised finish in accordance with BS EN ISO 10684.

 $2.3. \ \mbox{All}$  bolts shall be sized in length to give a minimum extension beyond the nut of three threads.

2.4. Where connections are made using dissimilar materials, all connections shall be provided with neoprene, 'top-hat' washers, spring washers or other approved barrier between connector and main material, to minimise the risk of bi-metallic (electrolytic) corrosion.

2.5. Where appropriate, taper washers shall be used in bolted connections.

2.6. Where a connection is subject to vibration or cyclic loading use shall be made of locknuts, lockwashers or spring washers or other approved methods at locations indicated on the drawing by the Engineer to minimise the risk of loosening of the connectors.

3.0. Fasteners and Connections - Steel to Concrete or Masonry

3.1. The preferred method of fixing structural fixings into solid concrete or masonry walls shall be through-bolt fixings unless specified otherwise. Where the through-bolt fixings cannot be achieved resin anchor fixings should be utilised upon consultation with engineer.

3.2 All resin anchors into solid concrete shall be Hilti HIT RE500 resin injection system with HAS-R stainless steel anchor components, or similar approved, unless noted otherwise.

3.3. All resin anchors into solid brickwork or other solid masonry shall be Hilti HIT-HY270 resin injection system with HIT-V stainless steel anchor components, or similar approved, unless noted otherwise.

Material	Anchor diameter	Minimum embedment depth (mm)	
Solid brick or stone	M10	90	
Solid brick or stone	M12	110	
Solid concrete	M10	90	
Solid concrete	M12	110	
Solid concrete	M16	125	
Solid concrete	M20	170	
Embedment lengths are taken from Hilti Fastening Technology Manual			

3.5. Where a connection is made between dissimilar metals, all connections shall be provided with neoprene, 'top-hat' washers/spring washers or other approved barrier between connector and main material, to minimise the risk of bi-metallic (electrolytic) corrosion.

3.6. Where appropriate, taper washers shall be used in bolted connections.

3.7. Where a connection is subject to vibration or cyclic loading use shall be made of locknuts, lockwashers, spring washers or other approved methods, as indicated on the drawing by the Engineer, to minimise the risk of loosening of the connectors.

3.8. Anchors shall be tested in accordance with 'Construction Fixings Association Guidance Note : Procedure for Testing Construction Fixings' and BS 5080-1:1993 - Structural fixings in concrete and masonry

BS 5080-2:1986 Structural Fixings in concrete and masonry. Method for determination of resistance to loading in shear or manufacturers recommendations.

3.9. Code of Practice for the design, selection, installation use and maintenance of anchor devices conforming to BS EN795:2012 refer to BS 7883:2005

3.10. The Engineer shall be advised a minimum of 48 hours in advance to afford the opportunity of witnessing the test.

3.11. All tests shall be carried out to the following test loads (UNO):

Material	Anchor diameter	Test load (kN)
Solid brick or stone	M10	3.0
Solid brick or stone	M12	3.5
Solid concrete	M10	6.3
Solid concrete	M12	9.5
Solid concrete	M16	12.1
Solid concrete	M20	20

Test load is based on 1.0 x Nrec ( $f_{cc}$  = 33 Nmm<sup>2</sup>) for solid brickwork and 1.0 x  $F_{REC}$  ( $f_{cc}$  = 30 Nmm<sup>2</sup>) taken from Hilti Fastening Technology Manual

3.12. All tests shall be documented with location sketches and unique references for each bolt tested, in such a manner that each test location can be identified on site from the documentation.

3.13. All nuts, bolts and studdings used in connections to porous materials shall be stainless steel.

3.14 Code of practice for the selection and installation of post-installed anchors in concrete and masonry refer to BS 8539:2012

#### 4.0. Concrete

4.1. Unless noted otherwise all concrete shall be:

Concrete grade: C28/35 Minimum cement content: 330 kg.m<sup>2</sup>

Nominal aggregate size: 20mm Maximum free water/cement ratio: 0.5

4.2. Unless noted otherwise all reinforcement shall be: (a) High yield ( $f_y = 500 \text{ Nmm}^2$ ) type 2 deformed bar reinforcement to BS 4449:2005 +A2:2009

(b) Mild steel ( $f_y = 250$  Nmm<sup>2</sup>) plain round reinforcement bars to BS 4449:2005 +A2:2009

(c) Welded steel mesh reinforcement to BS EN 10080:2005

(d) Scheduled and dimensioned to BS 8666:2005

4.3. All tower holding down bolts and anchorage assemblies, their settin out and any relevant templates shall be supplied by the tower manufacturer.

4.4. The main contractor shall be responsible for setting out, fixing and checking the installation of the tower anchorage assembly in accordance with the details supplied by the tower manufacturer.

4.5. The mix design certificate shall be submitted to the Engineer, for the opportunity to comment, a minimum of 72 hours prior to commencement casting.

4.6. Concrete cube testing to be carried out in accordance with BS 1881 The results to be forwarded to the Engineer for evaluation.

4.7. All concrete reinforcement and cast in items shall be positively locat in position prior to casting of the concrete.

4.8. Where concrete is to be cast against an existing concrete surface, th existing surface shall be scabbled to remove laitence and other deleterio materials. Scabbling shall expose the aggregate and sound material. A bonding agent is to be applied to the scabbled surface a maximum of two days before casting.

4.9. Concrete in each base shall be cast in a single continuous operation

4.10. Cover to reinforcement as noted on detail drawing.

4.11. Concrete shall not be cast where the ambient temperature is 2 degrees centigrade and falling or less than 2 degrees on a rising thermometer.

4.12. Finishes where stated shall be :

4.12.1. Formed finish - basic as struck. 4.12.2. Worked finish - brush finish.

5.0. Steelwork

5.1 Structural steel to be Grade S355 steel to BS EN 10025.

5.2 All welds to be minimum 6mm fillet weld unless noted otherwise. We at tube to tube connections to be full penetration butt welds.

5.3 All steelwork to be galvanised to BS EN 1S0 1461:2009.

5.4 Minor site erection damage to be made good with brush applied Galvafroid.

5.5 BS EN 1090 - 1 - 2009 CE Marking:

BS EN 1090 - 1 - 2009 Execution of Steel Structures and Aluminium Structures for all fabricated steelwork to be compliant with CE Marking specifications. All fabricated steel must be designed and fabricated to the requirements of Execution Class 2 as a minimum unless noted otherwise In order for fabricated steelwork to comply with BS EN 1090, Designers must state the Execution Class requirements on the drawings if not Execution Class 2 and the Principal Contractors must ensure that any the party fabricator is appropriately accredited.

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n.	Hatfield Hertfordshire AL10 9BW				
	Tel: 01707 315000				
	Fax: 01707 319001 Design & Principal Consultant:				
	UK Office:				
	UBC Building, 1310 Solihull Parkway, Birmingham Business Park, B37 7YU Email: info@ktl.ie				
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#### ELECTRICAL, LIGHTNING PROTECTION AND EARTHING NOTES

ALL ELECTRICAL WORKS INCLUDING AC DISTRIBUTION, DC DISTRIBUTION, PSU AND BATTERY INSTALLATIONS SHALL COMPLY WITH CURRENT LEGISLATION INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- BS7671:2018 REQUIREMENT FOR ELECTRICAL INSTALLATIONS (AS AMENDED)
- **ELECTRICITY AT WORK REGULATIONS 1989** HEALTH AND SAFETY AT WORK ACT 1974
- ELECTRICITY SUPPLY, QUALITY AND CONTINUITY REGULATIONS 2002
- BS 7430: CODE OF PRACTICE FOR EARTHING
- BS6701 SECTION 5.2 (BS EN 50310)
- BS EN 62305: PROTECTION AGAINST LIGHTNING PARTS 1 4
- **GUIDANCE NOTE 3 INSPECTION AND TESTING**
- ALL OTHER RELEVANT BRITISH STANDARDS
- CDM REGULATIONS
- LOCAL AUTHORITY REQUIREMENTS
- BUILDING REGULATIONS (AS APPLICABLE)
- HSR25 MEMORANDUM OF GUIDANCE ON THE ELECTRICITY AT WORK **REGULATIONS 1989**
- GS38 ELECTRICAL TEST EQUIPMENT FOR USE BY ELECTRICIANS
- HSG85 ELECTRICITY AT WORK. SAFE WORKING PRACTICES
- HSG107 MAINTAINING PORTABLE ELECTRICAL EQUIPMENT
- HSG230 KEEPING ELECTRICAL SWITCHGEAR SAFE
- INDG139 USING ELECTRIC STORAGE BATTERIES SAFELY
- INDG231 ELECTRICAL SAFETY AND YOU. A BRIEF GUIDE
- INDG354 SAFETY IN ELECTRICAL TESTING AT WORK
- HSE & CIBSE ELECTRICAL BEST PRACTICE GUIDES

EARTHING AND BONDING WORKS SHALL COMPLY WITH BS 7430:2011+A1:2015 2 AND ALL RELEVANT UPDATES INCLUDING BS7671: 2018 (542.1.201; 542.2.2 & 542.3.1).

THE FOLLOWING MECHANICAL AND ELECTRICAL SERVICES SHALL INTER-CONNECT DIRECTLY WITH THE 'DESIGNER NOMINATED' MAIN EARTH TERMINAL AS APPLICABLE

- SUPPLEMENTARY OR TT DEDICATED EARTH ELECTRODE.
- COMBINED PROTECTIVE / FUNCTIONAL EARTH
- LIGHTNING PROTECTION
- MAIN PROTECTIVE BONDING CONDUCTOR
- SUPPLEMENTARY PROTECTIVE BONDING CONDUCTORS (WHERE APPLICABLE) OTHER EARTH BARS
- TELECOM MASTS, TOWERS AND ANTENNA SUPPORTS
- FEEDERS AND OTHER COAXIAL COPPER SERVICES
- EXTRANEOUS CONDUCTIVE PARTS
- HVAC & COPPER SERVICES

NB THIS IS NOT AN EXHAUSTIVE LIST AND AS AN EXAMPLE DOES NOT INCLUDE INDIRECT BONDING CONNECTIONS OR CROSS BONDING ASSOCIATED WITH REMOTE EQUIPMENT AND OTHER CONDUCTIVE PARTS NOT NORMALLY ASSOCIATED WITH THE TELECOM INSTALLATION. AS SUCH, ALL CONDUCTIVE PARTS LOCATED WITHIN THE EQUIPOTENTIAL ZONE SHALL BE CROSS-BONDED AND TIED TO EARTH. THIS SHALL INCLUDE NON TELECOM SPECIFIC EQUIPMENT THAT MAY AFFECT THE TELECOM EQUIPMENT OR ANY PERSONNEL UNDER FAULT CONDITIONS.

ALL DNO INSTALLATIONS (REGARDLESS OF EARTH CONFIGURATION) SHALL BENEFIT FROM THE INCLUSION OF AN INDEPENDENT EARTH ELECTRODE TO BE LOCATED IN THE ELECTRICAL PROXIMITY OF THE DNO SERVICE HEAD. THIS 'SUPPLEMENTARY' ELECTRODE AND ITS ASSOCIATED INSTALLATION SHALL COMPLY WITH REGULATION 542.2.201 AS STATED ABOVE AND COMPLEMENT (NOT REPLACE) THE DNO EARTH FACILITY IF PROVIDED.

THE LIGHTNING PROTECTION INSTALLATION SHALL BE SUPPLIED, INSTALLED, TESTED, COMMISSIONED AND SET TO WORK IN KEEPING WITH BS EN 62305. WORKS SHALL ENCOMPASS BEST WORKING PRACTICES BY SUITABLY EXPERIENCED AND QUALIFIED PERSONNEL

WHERE INTER-CONNECTED WITH EXISTING LP SERVICES NEW TEST CERTIFICATES MUST REFLECT THE CONJOINED OR ENTIRE LIGHTNING PROTECTION SYSTEM INSTALLATION.

CONNECTION OF EXISTING OR INSITU EQUIPMENT, NORMALLY NOT ASSOCIATED WITH THE INSTALLATION SHALL BE KEPT TO A MINIMUM. THIS DOES NOT INCLUDE EXISTING SERVICES THAT MAY AFFECT THE INTEGRITY OF THE EQUIPMENT UNDER FAULT CONDITIONS. MATERIAL'S USED SHALL BE THE PROPRIETARY TYPE AS DEFINED IN THE PROJECT SPECIFICATION AND/ OR CONSTRUCTION DRAWINGS.

THE COMPOSITE LIGHTNING PROTECTION SYSTEM SHALL ACHIEVE A RESISTIVITY VALUE < 10 OHMS. THIS VALUE SHALL BE RECORDED IN ISOLATION TO ANY OTHER EXTERNAL INFLUENCES.

WHERE AN EXISTING OR PART EXISTING LIGHTNING PROTECTION SYSTEM IS 8 ADOPTED FOR TELECOM PURPOSES, THE SPECIALIST CONTRACTOR SHALL VERIFY IN ADVANCE THAT IT IS BOTH COMPLIANT (DATE INSTALLED) AND FIT FOR PURPOSE. VERIFICATION SHALL BE ACHIEVED BY A COMBINATION OF EXISTING TEST CERTIFICATION, VALID TO WITHIN 1 YEAR AND VISUAL INSPECTION, WHERE EXISTING TEST CERTIFICATION IS NOT AVAILABLE OR HAS EXCEEDED THE DUE EXPIRY DATE THEN THE SPECIALIST CONTRACTOR SHALL ARRANGE TO INSPECT AND RE-TEST THE 'ENTIRE' SYSTEM IN LINE WITH BS EN 62305. DETAILS OF ANY DEPARTURES FROM BS7671: 2018 OR ANY CONFLICTS ARISING FROM EQUIPMENT COMPATIBILITY INCLUDING SPD'S SHALL BE DULY ADVISED.

9. WHERE IN CONTACT WITH OTHER DISSIMILAR METALS SUCH AS CU ELECTRODES OR FERROUS SUPPORTS THEN BI-METALLIC CONNECTORS SHALL BE USED. WHERE THE USE OF BI-METALLIC CONNECTORS IS NOT POSSIBLE ALL CONDUCTORS INCLUDING AL TAPES WILL BE DULY PROTECTED AND / OR TREATED TO NEGATE DETERIORATION. WHERE CONSUMABLES SUCH AS TRANSFER PASTE OR OTHER SIMILAR COMPOUNDS ARE USED TO NEGATE DETERIORATION OR REQUIRE REGULAR ROUTINE MAINTENANCE THEN THE CONTRACTOR SHALL INDICATE THOSE AREA'S ON THE HAND OVER DOCUMENTS.

10. TAPES BELOW GROUND LEVEL SHALL NORMALLY BE THE BARE CU TYPE 25X3MM. WHERE BURIED WITHIN PEDESTRIAN AREA'S, CU SERVICES SHALL BE LOCATED A MINIMUM 1 METRE BELOW FINISHED GROUND LEVEL AND INSULATED UP TO FINISHED GROUND LEVEL TO NEGATE STEP POTENTIALS AS FAR A ELECTRICALLY POSSIBLE. WITHIN OTHER AREA'S TAPE CONDUCTORS SHALL NORMALLY BE LOCATED 600MM BELOW FINISHED GROUND LEVEL.

11. ALL RING CONDUCTORS SHALL BE COMPLETE WITH A CONTINUOUS LINE OF MARKER TAPE LOCATED 300MM BELOW FINISHED GROUND LEVEL. WHERE INSTALLED ELECTRODES SHALL BE COMPLETE WITH A FLUSH FITTING CONCRETE INSPECTION CHAMBER / LID AND BE READILY ACCESSIBLE FOR TESTING PURPOSES IN ISOLATION TO OTHER CONNECTED ELECTRODES.

12. ALL DOWN-CONDUCTORS SHALL BE COMPLETE WITH TEST LINK FACILITY AND IDENTIFIED IN LINE WITH THE PROJECT SPECIFICATION/ DRAWINGS

13. LIGHTNING PROTECTION SYSTEMS SHALL BE IN PLACE AND FULLY FUNCTIONAL PRIOR TO THE ERECTION OF ANY MASTS, TOWERS, ANTENNAS OR OTHER SUCH EQUIPMENT THAT MAY INCREASE THE LIKELIHOOD OF A DIRECT OR RESIDUAL LIGHTNING STRIKE TO THE HOST OR ADJACENT STRUCTURES.

14. SOIL PREPARATION AGENTS SHOULD BE AVOIDED WHERE POSSIBLE. WHERE CONSIDERED NECESSARY THE KTL DESIGN ENGINEER MUST BE DULY ADVISED IN ADVANCE OF THEIR USE.

15. WHERE LIGHTNING PROTECTION TAPES CONNECT TO OTHER SERVICES, CONNECTION SHALL \*PREFERABLY BE ACHIEVED VIA A PROPRIETARY MECHANICAL CONNECTION SUITABLE FOR THE PURPOSE INTENDED. THIS SHALL INCLUDE FLEXIBLE OR BRAIDED CONNECTIONS WHERE THE CONNECTION MAY BE SUBJECT TO MECHANICAL STRESS. LIGHTNING PROTECTION TAPES SHALL NOT BE DRILLED OUT OR PENETRATED TO ACHIEVE CONNECTION. ALL TERMINATIONS SHALL BE SUITABLY PROTECTED TO NEGATE DETERIORATION.

CHEMICAL JOINTING BY PERMISSION OF THE KTL DESIGN ENGINEER

16. SURFACE FIXED TAPES SHALL BE SECURED AT 600MM CENTRES VIA PROPRIETARY PVC INSULATED CLIPS. CLIPS SHALL GENERALLY BE THE SELF-ADHESIVE TYPE SO AS TO AVOID PENETRATING THE BUILDING FABRIC. SELF-ADHESIVE TYPE ARE UNSUITABLE AND THEIR USE WILL NOT DAMAGE THE

SIGNAGE POSTED IN KEEPING WITH BS EN 62305. DETAILED WORDING AS PER THE

18. CONTINUOUS CONTAINMENT SYSTEM RUNS SHALL BE BONDED DIRECTLY TO THE LIGHTNING PROTECTION SYSTEM AT A MAXIMUM 20 METRE INTERVAL. WHERE BONDED DIRECTLY TO THE LIGHTNING PROTECTION SYSTEM BOND'S SHALL BE 25X3MM CU. TAPE OR BRAID AS REQUIRED. PARALLEL OR DISSIMILAR TRAY RUNS SHALL BE CROSS-BONDED, AS SHOULD CONDUCTIVE FENCES AND GATES. 25X3MM CU. TAPE OR BRAID AS REQUIRED.

CABLES SHALL CALCULATED, SPECIFIED AND SUPPLIED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATION AND BS CRITERIA:

EARTH CABLES SHALL BE SINGLE CORE REF. 6491X TO BS 6004 a)

POWER & SWA TYPE CABLES INCLUDING 3 OR 5 CORE REF. 6943X TO BS b) 5467.

MIC ALARM CABLE 2 PAIR 1/0.50MM CEL-PE/PJF/PE/SWA/PE BLACK TO CS1128/1198 (EG BATT CABLES P/N 42125).

d) PCM CABLES SHALL BE SWA RG59 (VPN 303-223) FOR EXTERNAL USE. COMPLETE WITH IP66 GLAND CW205/16 (VPN 303-688). INTERNAL USE BS20S (VPN 303-224).

e) WHERE SPECIFIED OPERATOR 'PREFERRED' CONDUCTOR TYPES INCLUDING HYBRID CABLES SHALL BE FULLY COMPLIANT WITH BS7671:2018 IN ALL ASPECTS OF THEIR PERFORMANCE, INCLUDING ENVIRONMENTAL AND ELECTRICAL WITHSTANDS. PROTECTIVE DEVICE COMPATIBILITY AND SUITABILITY RELATIVE TO PARALLEL SERVICES.

20. CABLES SHALL BE IDENTIFIED AND LABELLED IN KEEPING WITH BS7671: 2018 AND CTIL PROJECT SPECIFICATION SDN5016.

21. WHERE BURIED ELECTRICAL CABLES SHALL BE INSTALLED IN KEEPING WITH THE CONSTRUCTION DRAWINGS, PROJECT SPECIFICATION AND BEST WORKING PRACTICES. PRIOR TO THE OPENING OF ANY TRENCHES THE CONTRACTOR SHALL DEMONSTRATE THAT THE AREA TO BE EXCAVATED IS FREE FROM OTHER SERVICES AND ALL NECESSARY SAFEGUARDS HAVE BEEN PUT IN PLACE TO NEGATE RISK TO SITE PERSONNEL, BUILDING FABRIC, MEMBERS OF THE PUBLIC AND SITE PROVIDER EMPLOYEE'S.

UNLESS DIRECTED OTHERWISE ALL SUCH CABLE EXCAVATIONS & ASSOCIATED INSTALLATIONS SHALL INCLUDE ADVANCE H&S / PERMIT TO WORK NOTIFICATIONS.

22. CONTAINMENT SYSTEMS SHALL BE THE PROPRIETARY TY DETAILED ON THE CONSTRUCTION DRAWINGS I.E. ROOFPRO OF APPROVED. THEY SHALL TAKE COGNISANCE OF CABLE CLASSIF AND SEGREGATION AS DEFINED IN SECTION / CHAPTER 52 OF E 2018 AND BE COMPLETE PRIOR TO ANY CABLE INSTALLATION.

23. BENDS OFFSETS AND OTHER ACCESSORIES SHALL BE TH PROPRIETARY TYPE. SITE FABRICATED INSTALLATIONS IN LIEU MANUFACTURERS EQUIPMENT SHALL BE AVOIDED WHERE PRA POSSIBLE.

24. WHERE THE HOST BUILDING IS COMPLETE WITH A FIRE AL SYSTEM. THAT SYSTEM SHALL BE EXTENDED AND / OR MODIFIE IN SITU SPECIALIST CONTRACTOR TO PROVIDE BOTH AUDIBLE INDICATION OF FIRE ALARM ACTIVATION AND CALL POINT ACTIV WHERE PRACTICAL DB LEVELS SHALL BE 65DB (A) OR 5DB (A) A PREVAILING BACKGROUND NOISE. ASSOCIATED CABLES SHALL MICC OR FP200 TYPE 1.5MM 2 CORE WITH RED XLPE OUTER SH CLIPS SHALL BE PROPRIATARY CU INSULATED TYPE FIXED DIRE BUILDING FABRIC AND/ OR DEDICATED CONTAINMENT. FIRE ALA WORKS SHALL BE RESTRICTED TO THE VODAFONE INSTALLATION ARE DEEMED TO INCLUDE MODIFICATION AS REQUIRED TO THE FIRE ALARMS SYSTEM E-PROM AND / OR MIMIC DRIVER. FIRE AL WORKS SHALL ONLY BE UNDER TAKEN ON APPROVAL FROM TH BUILDING OFFICER OR HIS NOMINATED SPECIALIST CONTRACT

25. WHERE REQUIRED CABLE SERVICE PENETRATIONS SHALL AGREED IN ADVANCE WITH THE RELEVANT AUTHORITY INCLUDI STRUCTURAL AND ELECTRICAL DESIGN ENGINEERS AND THE S PROVIDER. FIRE SEALING AND REINSTATEMENT WORKS WILL R AND AS A MINIMUM MAINTAIN THE SPECIFIED FIRE INTEGRITY O WORK AREA. BS7671: 2018 REGULATION 525.2.

26. EXTERNAL LIGHTING SHALL BE PROVIDED TO THE CABIN AREA VIA THE AGREED ACCESS ROUTE ONLY, FITTINGS SHALL SWITCHABLE MAINTAINED / NON-MAINTAINED AND DUAL FUNCT VARIETY AND BE BOTH PHYSICALLY AND AESTHETICALLY SUITA THE AREA INSTALLED.

THEY SHALL BE COMPLETE WITH A MINIMUM AND INTEGRAL 3 H BATTERY BACK- UP FACILITY IN THE EVENT OF MAINS POWER FA SWITCHING SHALL GENERALLY BE ACHIEVED VIA A COMBINATION WAY AND 2 WAY AND INTERMEDIATE SWITCHES POSITIONED IN WAY AS TO FACILITATE SAFE OPERATION FROM THE CABIN / RA POSITION AND THE NOMINATED BUILD OR FACILITY ENTRY / EXI

27. DISTRIBUTION BOARDS, FUSE SWITCHES AND SUNDRIES SUPPLIED IN ACCORDANCE WITH THE FOLLOWING:

- 100AMP SWITCH DISCONNECTOR SHALL BE TO BS EN 6094 a)
- MCB'S TO BS EN 60898 b)
- c) RCD'S TO BS EN 61009

7 WAY DB'S TO BS EN 60529 FOR AC MAINS (MK SENTRY 55 d) EQUIVALENT)

24 WAY DB'S TO BS EN 60529 FOR CABINS / ROOMS (EG HAGER SWITCH FUSES 32AMP SP&N AND TP&N TO BS 5419 (MEM OR EQUIVALENT)

SWITCH FUSES 63AMP SP&N AND TP&N TO BS 5419 (MEM 63GNC EQUIVALENT)

SWITCH FUSES 100AMP SP&N AND TP&N TO BS 5419 (MEM 103G EQUIVALENT).

PLUGS AND SOCKETS 16AMP IP44 ANGLED IN ACCORDANC BS EN 60309-2 (MK COMMANDO 9201 BLU)

PLUGS AND SOCKETS 16AMP IP44 STRAIGHT IN ACCORDANCE V 60309-2 (MK COMMANDO 9201 BLU)

PLUGS AND SOCKETS 16AMP IP67 SWITCH OUTLET IN ACCORDA BS EN 60309-2 (HUBEL BK 1663)

RCD 13AMP 30MA TWIN SWITCH SOCKET SHALL BE SUPPLIED TO METAL CLAD (VOLEX VT9208 SG).

28. ACCESSORIES AND SUNDRY ITEMS SHALL BE SUPPLIED IN ACCORDANCE WITH THE FOLLOWING:

WARNING LABELS SHALL BE SUPPLIED TO BS 5378.

SINGLE PVC BACK BOX FOR ALARM CONNECTIONS SHALL SUPPLIED TO BS 5733. SINGLE BLANK PLATE ENGRAVED ALARM CONTACTS FOR C)

SHALL BE SUPPLIED TO BS 5733. A) AMP CONNECTOR STRIP SHALL BE SUPPLIED TO BS 5733.

29. WHEN OCCUPYING AN ESCAPE ROUTE OR PART THERE-O ELECTRICAL MATERIALS INCLUDING ALL CABLES, FIXINGS AND CONTAINMENT SHALL BE NON COMBUSTIBLE AND 'LOW (IN THE CONDUCTORS) SMOKE ZERO HALOGEN'. WHERE CABLES ARE N INSTALLED IN CONTAINMENT THEY SHALL BE RUN AND INSTALL SUCH A WAY AS TO NEGATE DROOPING OR SAGGING DURING F ABNORMALLY HIGH HEAT CONDITIONS.

ADDITIONALLY ALL LINE CONDUCTORS OCCUPYING THE ABOVE SHALL BE RCD PROTECTED IN KEEPING WITH BS7671: 2018. THIS INCLUDES MAIN AND SUB-MAIN CABLES, AND SUB-CIRCUITS SUG ACCESS, EMERGENCY LIGHTING AND SMALL POWER WHERE APPLICABLE.

PROJECT SPECIFICATION.

BUILDING FABRIC.

17. ALL LIGHTNING PROTECTION EQUIPMENT SHALL BE DULY IDENTIFIED AND

SCREW/CAVITY FIXINGS SHALL ONLY BE CONSIDERED WHERE THE

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VITH BS EN	Birmingham Business Park, B37 7YU Email: info@ktl.ie					
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