

Purpose of Issue:

Issued by:

KTL

1. ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.



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CAMBRIDGE ROAD LAMP POST

929270

LAMPPOST 186
A505 CAMBRIDGE ROAD
PURWELL
HITCHIN
HERTFORDSHIRE
SG4 0JW

001 DRAWING REGISTER

VENDOR SWAP

DETAILED DESIGN

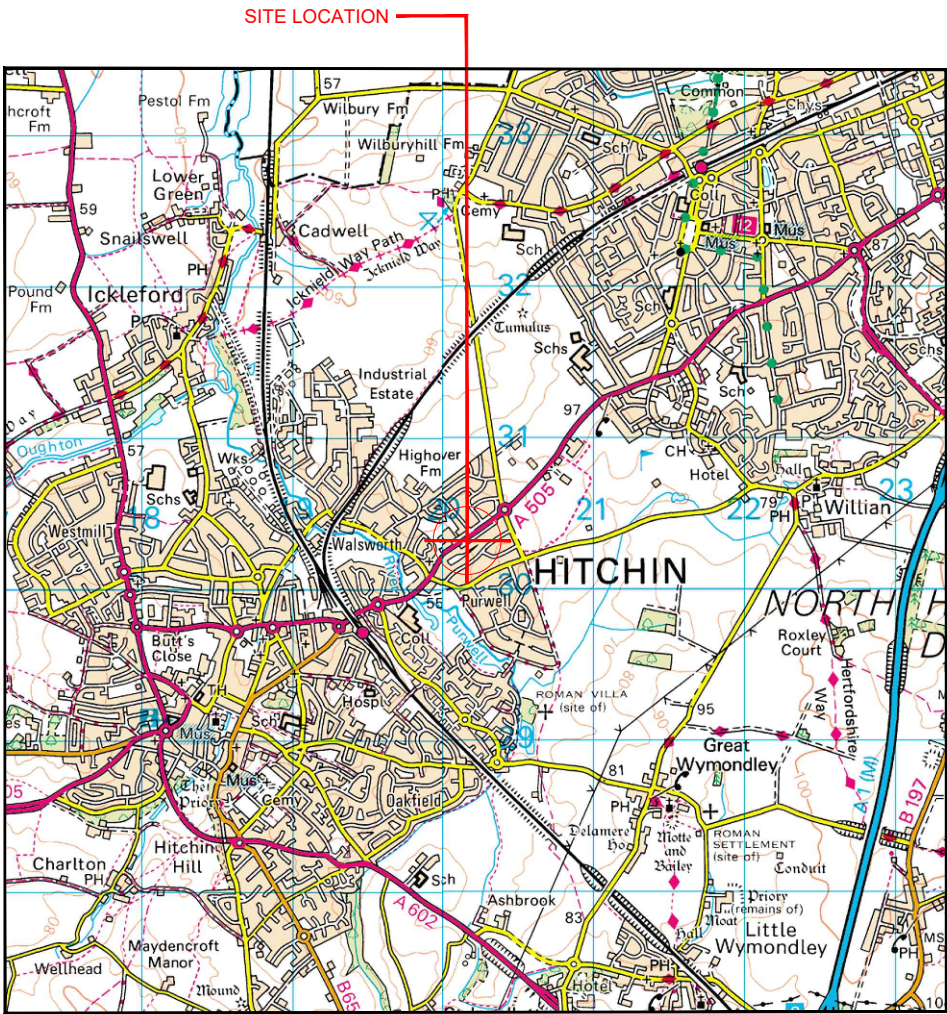
EE Cell ID:
51014

MBNL Cell ID:
NHE009

3UK Cell ID:
SG0168

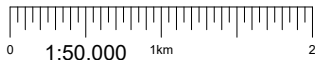
929270_NHE009_51014_SG0168_M001

Issue:
A1

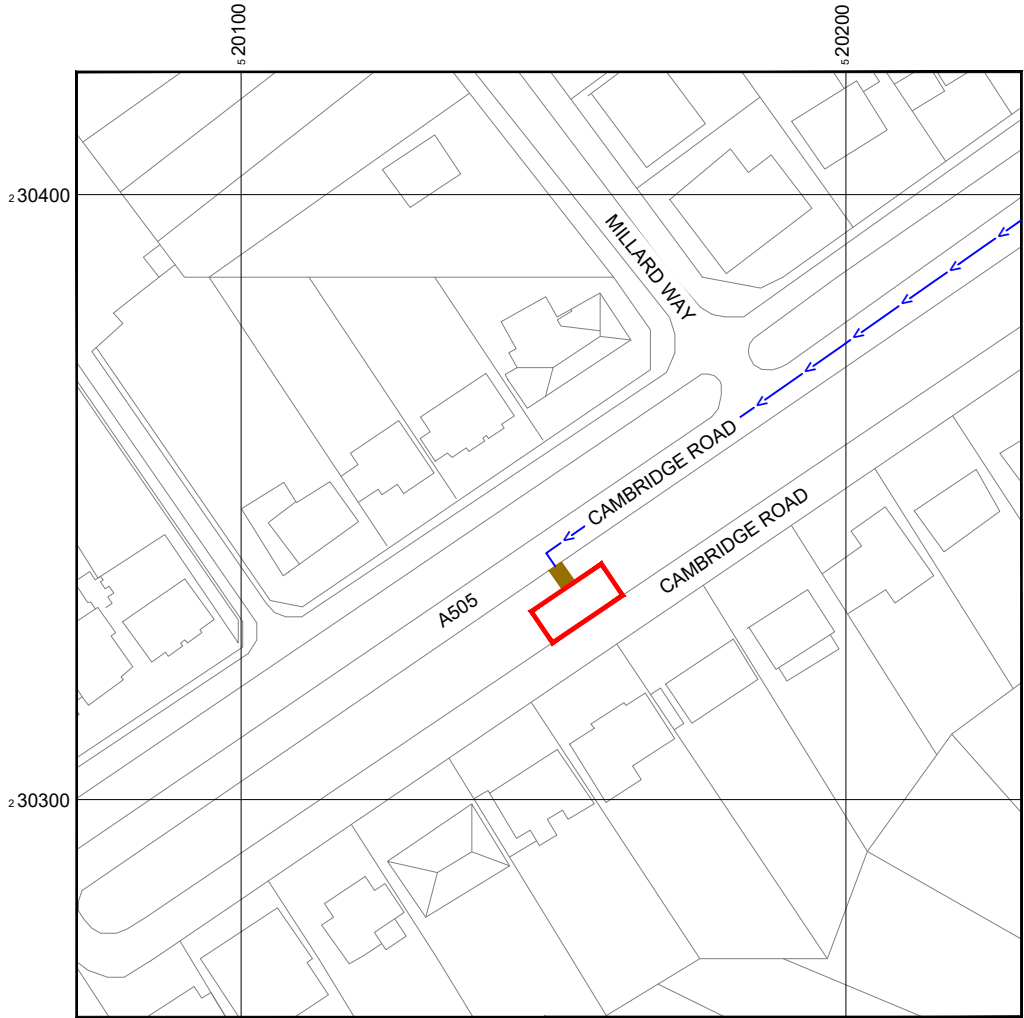


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SITE AREA PLAN



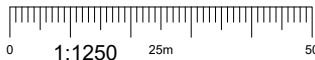
SITE PHOTOGRAPH



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NGR E: 520153 N: 230337

SITE LOCATION PLAN



GOOGLE MAPS QR CODE

GOOGLE MAPS - <https://maps.app.goo.gl/W3D34RFYdE1zw1vT6>

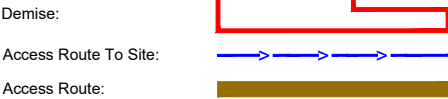
GOOGLE STREET VIEW - <https://maps.app.goo.gl/jMAdJf8w5zAoGCR99>

NOTES:

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DIRECTIONS TO SITE:

HEAD NORTH ON A1(M), AT JUNCTION 9, EXIT ONTO LETCHWORTH GATE/A505, TOWARD LETCHWORTH, TURN LEFT ONTO BALDOCK LN, CONTINUE ONTO WILLIAN RD, TURN RIGHT ONTO QUEENSWOOD DR, AT THE ROUNDABOUT, TAKE THE 1ST EXIT ONTO CAMBRIDGE RD/A505, DESTINATION WILL BE ON THE LEFT.



Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M001	MBNL	Vendor Swap	Detailed Design	A1
Date:	25/06/2024	Revision / Upgrade Description:		
Drawn:	KOK	Detailed Design		
Checked:	KS			
Approved:	KTL			



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Hertfordshire
AL10 9BW

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Site Name:
CAMBRIDGE ROAD LAMP POST

Site ID:
929270

Address:
LAMPPOST 186
A505 CAMBRIDGE ROAD
PURWELL
HITCHIN
HERTFORDSHIRE
SG4 0JW

Title:
002 SITE LOCATION PLAN

Project:
VENDOR SWAP

Purpose of Issue:
DETAILED DESIGN

EE Cell ID: 51014	MBNL Cell ID: NHE009	3UK Cell ID: SG0168
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Master Drawing No: 929270_NHE009_51014_SG0168_M001	Issue: A1
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CAMBRIDGE ROAD
(30mph)

KERBLINE

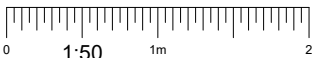
GRASS AREA

GROUND
LEVEL 0.0m

KERBLINE

CAMBRIDGE ROAD
(30mph)

PROPOSED ACCESS PLAN



Asset Reference	Asset Description:	Asset Status:	Access Description:	Asset Reference	Asset Description:	Asset Status:	Access Description:
E1	Antenna	Installed	Cherry Picker Access	CAB1-5	Cabinets	Installed	Unrestricted Access
E2	Antenna	Installed	Cherry Picker Access	CAB6	Cabinet	Remove	Unrestricted Access
E3	Antenna	Installed	Cherry Picker Access	CAB7-8	Cabinets	Proposed	Unrestricted Access
GPS1	GPS	Installed	Cherry Picker Access				
GPS2	GPS	Proposed	Unrestricted Access				

NOTES:

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Site Name:

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Site ID:

929270

Address:

LAMPPOST 186
A505 CAMBRIDGE ROAD
PURWELL
HITCHIN
HERTFORDSHIRE
SG4 0JW

Title:

003 ACCESS PLAN

Project:

VENDOR SWAP

Purpose of Issue:

DETAILED DESIGN

EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
51014	NHE009	SG0168

Master Drawing No:

929270_NHE009_51014_SG0168_M001

Issue:

A1



ROOF LEVEL
+8.8m AGL

TREE LEVEL
+8.0m AGL

TREE LEVEL
+8.0m AGL

TREE LEVEL
+8.0m AGL

TREE LEVEL
+8.0m AGL

TREE LEVEL
+8.0m AGL

GROUND
LEVEL 0.0m

ROOF LEVEL
+8.8m AGL

POTENTIAL SET DOWN AREA. TRAFFIC
MANAGEMENT REQUIRED

POTENTIAL CRANE & CHERRY PICKER
LOCATION. TRAFFIC MANAGEMENT
REQUIRED

CAMBRIDGE ROAD
(30mph)

BUSHES

GRASS AREA

BUSHES

CAMBRIDGE ROAD
(30mph)

KERBLINE

KERBLINE

CAMBRIDGE ROAD
(30mph)

GRASS AREA

LEASE DEMISE PLAN



z 30400

z 30300

520100

520200

MILLARD WAY

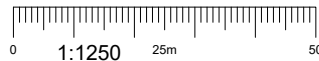
A505

CAMBRIDGE ROAD

NGR E: 520153 N: 230337

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SITE LOCATION PLAN



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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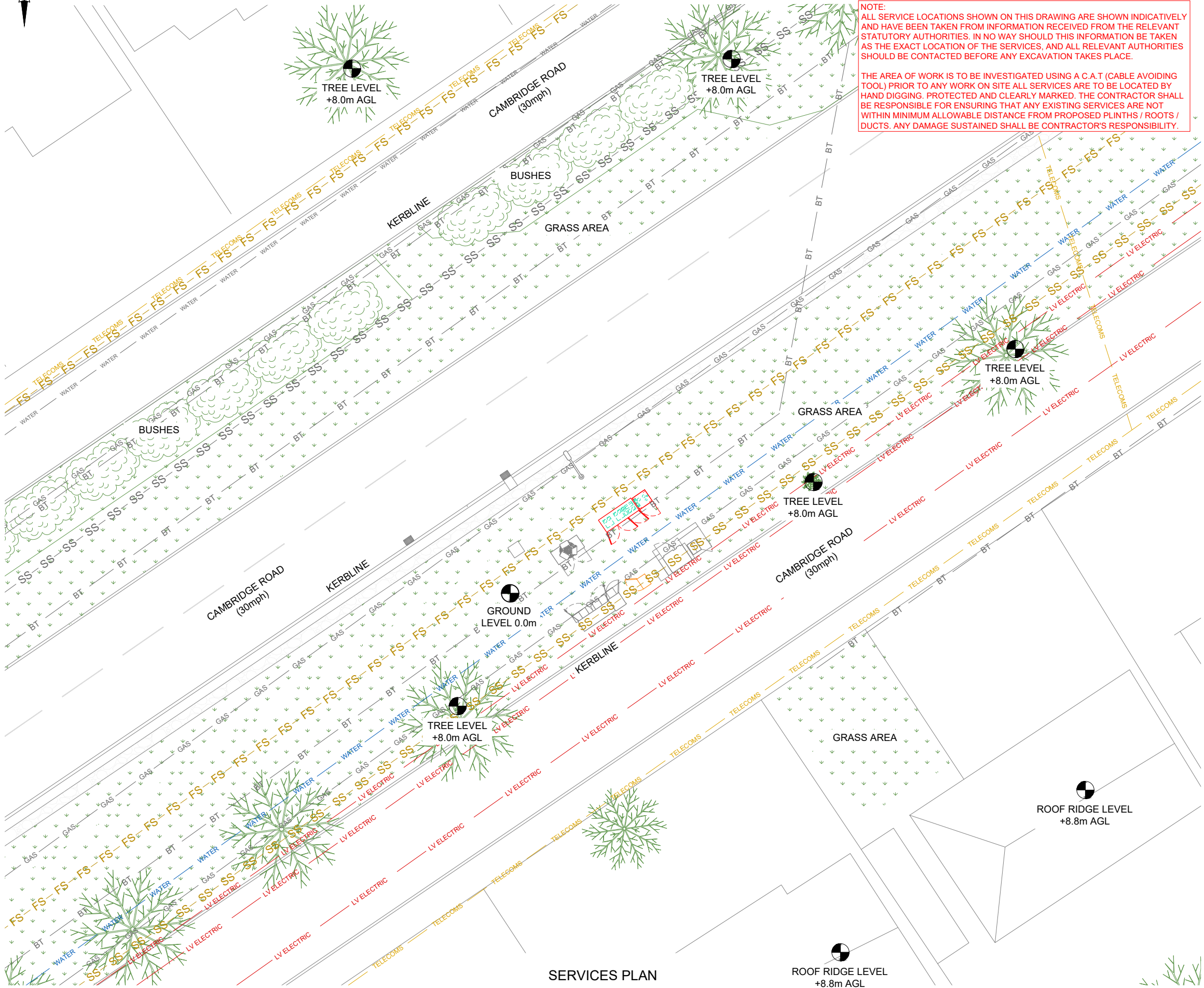
Title:
004 LEASE DEMISE

Project:
VENDOR SWAP

Purpose of Issue:
DETAILED DESIGN

EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
51014	NHE009	SG0168

Master Drawing No:	Issue:
929270_NHE009_51014_SG0168_M001	A1



NOTE:
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THE AREA OF WORK IS TO BE INVESTIGATED USING A C.A.T (CABLE AVOIDING TOOL) PRIOR TO ANY WORK ON SITE ALL SERVICES ARE TO BE LOCATED BY HAND DIGGING. PROTECTED AND CLEARLY MARKED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ANY EXISTING SERVICES ARE NOT WITHIN MINIMUM ALLOWABLE DISTANCE FROM PROPOSED PLINTHS / ROOTS / DUCTS. ANY DAMAGE SUSTAINED SHALL BE CONTRACTOR'S RESPONSIBILITY.

- NOTES:
- ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.

SERVICES:

- HV
- LV ELECTRIC
- ELECTRIC
- WATER
- GAS
- BT
- SS
- TELECOMS
- FS
- CS

Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
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929270

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PURWELL
HITCHIN
HERTFORDSHIRE
SG4 0JW

Title:
005 SERVICES PLAN

Project:
VENDOR SWAP

Purpose of Issue:
DETAILED DESIGN

EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
51014	NHE009	SG0168

Master Drawing No:	Issue:
929270_NHE009_51014_SG0168_M001	A1

Live Technologies	Proposed Config	Achievable Config	Proposed MIMO Config	Achievable MIMO Config	CR Status
GSM; LTE1800 Carrier 1	18/18/21/26/26/26	18/18/21/26/26/26	18\21\26 @4x4	18\21\26 @4x4	N/A

FIXITS			
FIXIT TYPE	STATUS	FIXIT NUMBER	COMMENTS
-	-	-	-

DEPENDENCY	STATUS	COMMENTS			
Asbestos	N/A	-			
Building Regulations Approval	N/A	-			
Planning Conditions	N/A	-			
RF Compliance TD54000 v11.0	Pass / Fail:	Sector A	Non-T&A - Stepdown 1.0		
	Pass	Sector B	Non-T&A - Stepdown 1.0		
		Sector C	Non-T&A - Stepdown 1.0		
Global Design Check	N/A	-			
Geotech Report	N/A	-			
Structural Calculations	N/A	-			
Intrusive Building Survey	N/A	-			
Rigging Survey	N/A	-			
Power	Upgrade Required: N	Existing Single phase 100A REC supply within Mk3 link AC cabinet			
Line of Sight Survey	N/A	-			
Cooling Solution	Indoor/outdoor: Outdoor	kW: -	Status: -	System: -	Upgrade Required: -
Services Search	Completed	-			
Trial Hole	N/A	-			
Temporary Site	N/A	-			
Other	-				
Other	-				

STATUS KEY:

Installed: Existing
Retain: Existing and to remain
Relocate: Existing and to be relocated
Remove: Existing to be removed from site
Proposed: New on site

LOCATION KEY:

Outdoor: Located outside
Indoor: Located within an equipment cabin or equipment room
Internal: located inside a cabinet or item of equipment

Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
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LAMPPOST 186
A505 CAMBRIDGE ROAD
PURWELL
HITCHIN
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SG4 0JW

Title:
006 FIXIT's & PROJECT DEPENDENCIES

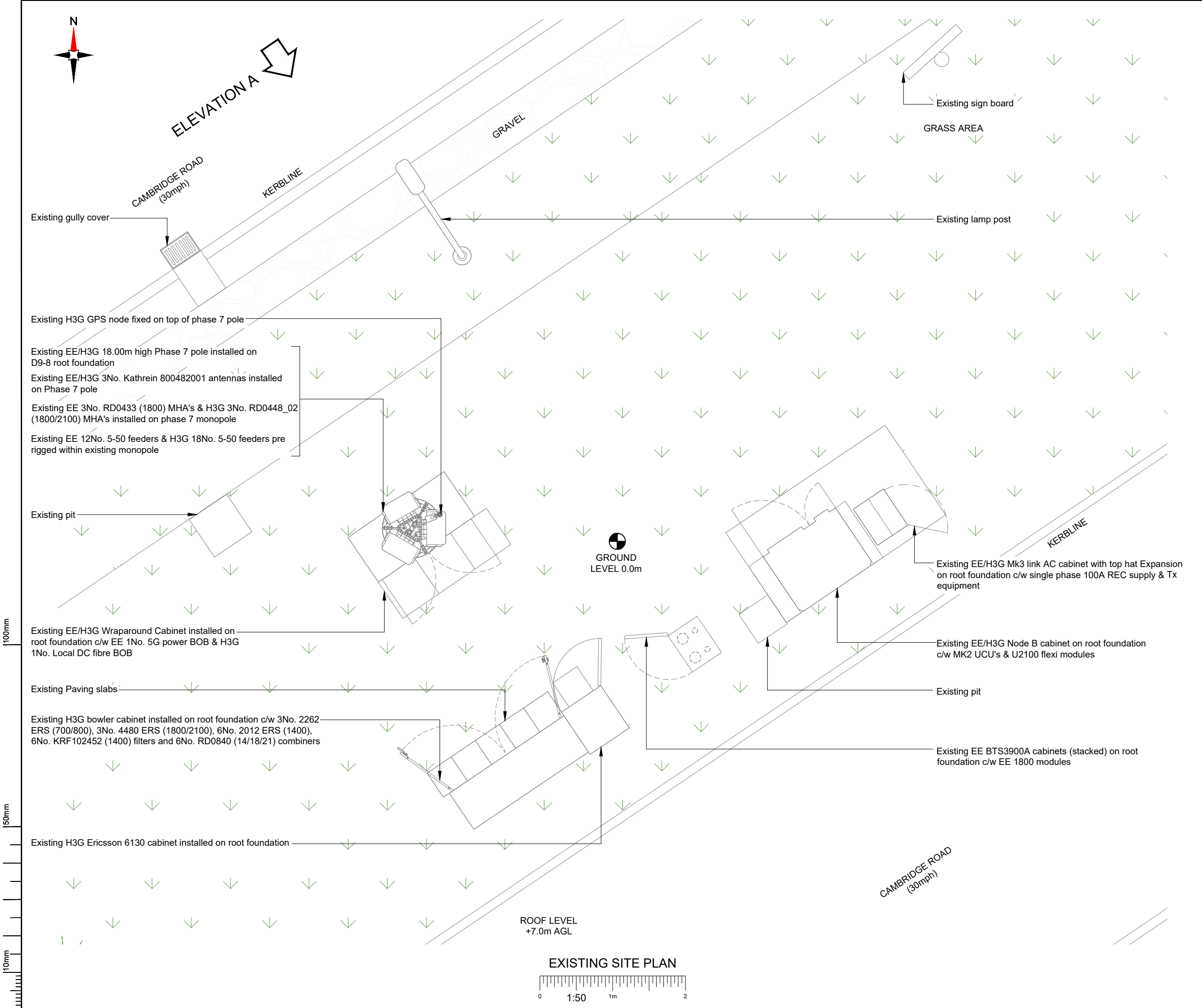
Project:
VENDOR SWAP

Purpose of Issue:
DETAILED DESIGN

EE Cell ID: 51014	MBNL Cell ID: NHE009	3UK Cell ID: SG0168
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Master Drawing No: 929270_NHE009_51014_SG0168_M001	Issue: A1
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Note:
Page is for Internal Distribution Only



NOTES:

1. ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.

Master: M001	MBNL / EE / H3G: MBNL	Project: Vendor Swap	Purpose of Issue: Detailed Design	Issue: A1
Date: 25/06/2024	Drawn: KOK	Revision / Upgrade Description: Detailed Design		
Checked: KS				
Approved: KTL				

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929270

Address:

LAMPPOST 186
A505 CAMBRIDGE ROAD
PURWELL
HITCHIN
HERTFORDSHIRE
SG4 0JW

Title:

100 EXISTING SITE PLAN

Project:

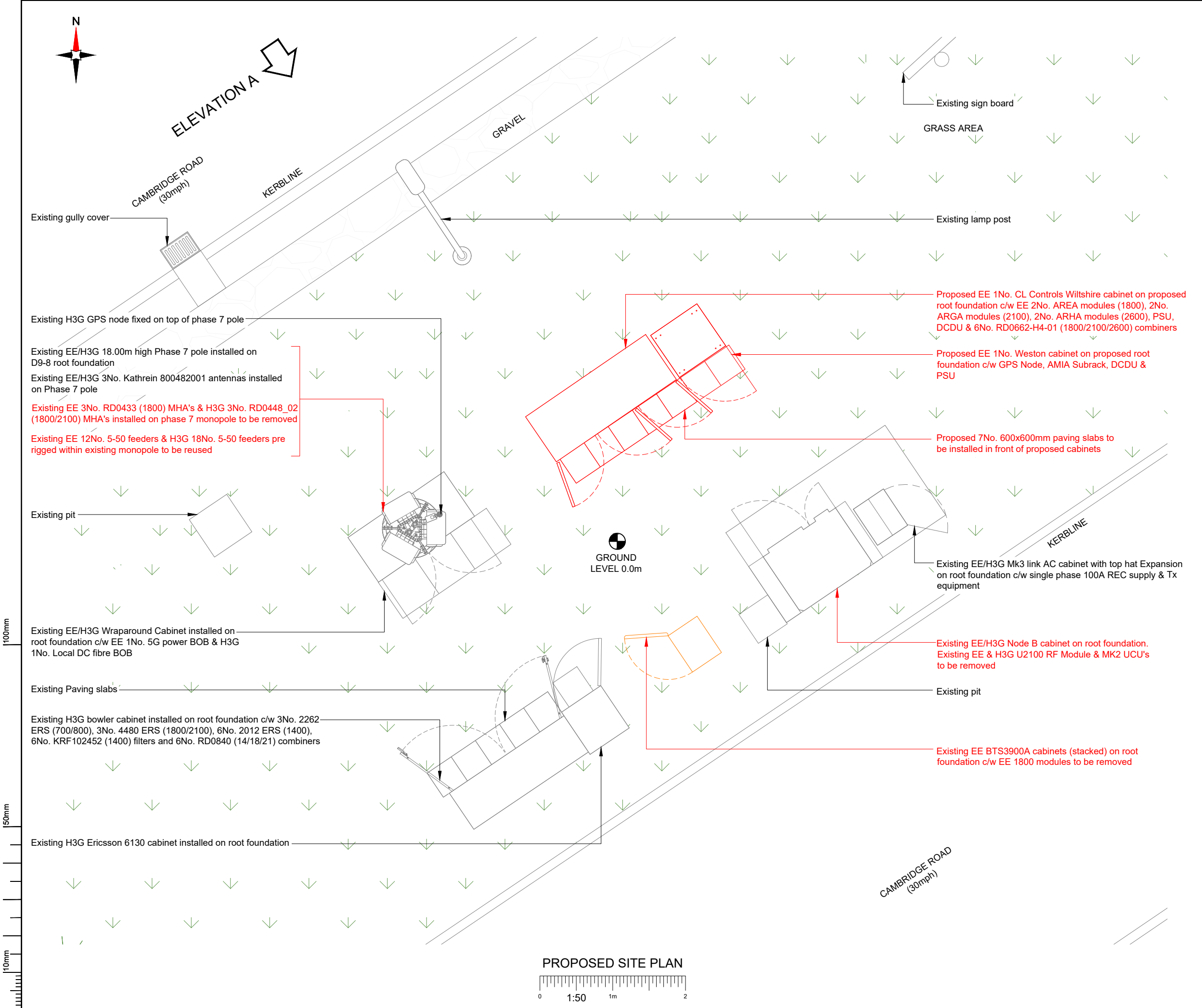
VENDOR SWAP

Purpose of Issue:

DETAILED DESIGN

EE Cell ID: 51014	MBNL Cell ID: NHE009	3UK Cell ID: SG0168
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Master Drawing No: 929270_NHE009_51014_SG0168_M001	Issue: A1
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Address:

LAMPPOST 186
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PURWELL
HITCHIN
HERTFORDSHIRE
SG4 0JW

Title:

150 PROPOSED SITE PLAN

Project:

VENDOR SWAP

Purpose of Issue:

DETAILED DESIGN

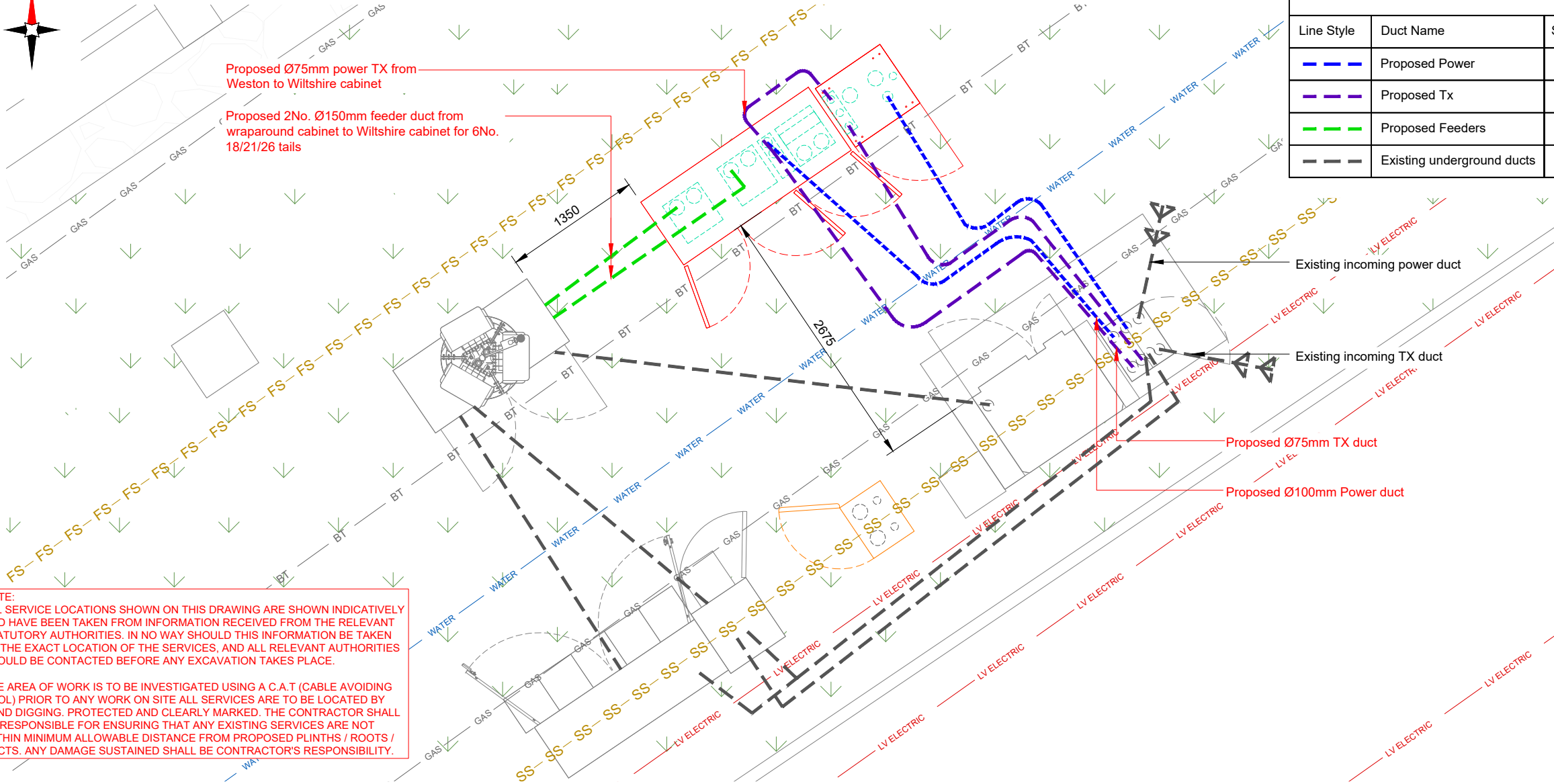
EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
51014	NHE009	SG0168

Master Drawing No:

929270_NHE009_51014_SG0168_M001

Issue:

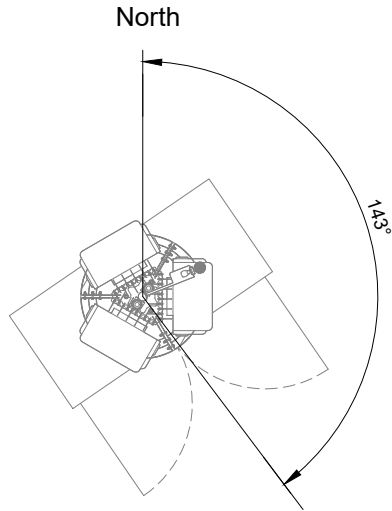
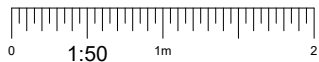
A1



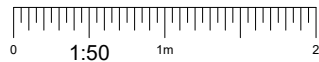
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PROPOSED DUCTING PLAN



EXISTING HATCH-ORIENTATION PLAN



DUCT KEY

Line Style	Duct Name	Size Ø
	Proposed Power	100
	Proposed Tx	75
	Proposed Feeders	150
	Existing underground ducts	N/A

NOTES:

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SERVICES:

— HV — HV — HV — HV —

— LV ELECTRIC —

— ELECTRIC — ELECTRIC —

— WATER — WATER — WATER —

— GAS — GAS — GAS —

— BT — BT — BT — BT —

— SS — SS — SS — SS — SS — SS — SS — SS — SS — SS —

— TELECOMS — TELECOMS —

— FS — FS — FS — FS — FS — FS — FS — FS — FS — FS —

— CS — CS — CS — CS — CS — CS —

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929270

Address:
**LAMPPOST 186
A505 CAMBRIDGE ROAD
PURWELL
HITCHIN
HERTFORDSHIRE
SG4 0JW**

Title:
155 DUCTING PLAN

Project:
VENDOR SWAP

Purpose of Issue:
DETAILED DESIGN

EE Cell ID: 51014	MBNL Cell ID: NHE009	3UK Cell ID: SG0168
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Master Drawing No: 929270_NHE009_51014_SG0168_M001	Issue: A1
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Existing H3G GPS node fixed on top of phase 7 pole

Existing EE/H3G 18.00m high Phase 7 pole installed on D9-8 root foundation

Existing EE/H3G 3No. Kathrein 800482001 antennas installed on Phase 7 pole

Existing EE 3No. RD0433 (1800) MHA's & H3G 3No. RD0448_02 (1800/2100) MHA's installed on phase 7 monopole

Existing EE 12No. 5-50 feeders & H3G 18No. 5-50 feeders pre rigged within existing monopole

Top of pole +18.00m AGL

Top of EE/H3G Antennas +17.35m AGL

C/L of EE/H3G Antennas +16.60m AGL

U/S of EE/H3G Antennas +15.85m AGL

Existing lamp post

Existing telegraph pole

Existing H3G Ericsson 6130 cabinet installed on root foundation

Existing EE BTS3900A cabinets (stacked) on root foundation c/w EE 1800 modules

Existing EE/H3G Node B cabinet on root foundation c/w MK2 UCU's & U2100 flexi modules

Existing EE/H3G Mk3 link AC cabinet with top hat Expansion on root foundation c/w single phase 100A REC supply & Tx equipment

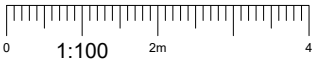
Tree Level +8.0m AGL

Existing EE/H3G Wraparound Cabinet installed on root foundation c/w EE 1No. 5G power BOB & H3G 1No. Local DC fibre BOB

Existing H3G bowler cabinet installed on root foundation c/w 3No. 2262 ERS (700/800), 3No. 4480 ERS (1800/2100), 6No. 2012 ERS (1400), 6No. KRF102452 (1400) filters and 6No. RD0840 (14/18/21) combiners

Ground Level +0m AGL

EXISTING SITE ELEVATION A



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HERTFORDSHIRE
SG4 0JW

Title:

200 EXISTING SITE ELEVATION A

Project:

VENDOR SWAP

Purpose of Issue:

DETAILED DESIGN

EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
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Issue:
A1

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Existing EE/H3G 18.00m high Phase 7 pole installed on D9-8 root foundation

Existing EE/H3G 3No. Kathrein 800482001 antennas installed on Phase 7 pole

Existing EE 3No. RD0433 (1800) MHA's & H3G 3No. RD0448_02 (1800/2100) MHA's installed on phase 7 monopole to be removed

Existing EE 12No. 5-50 feeders & H3G 18No. 5-50 feeders pre rigged within existing monopole to be reused

Top of pole +18.00m AGL

Top of EE/H3G Antennas +17.35m AGL

C/L of EE/H3G Antennas +16.60m AGL

U/S of EE/H3G Antennas +15.85m AGL

Existing lamp post

Existing telegraph pole

Existing H3G Ericsson 6130 cabinet installed on root foundation

Existing EE BTS3900A cabinets (stacked) on root foundation c/w EE 1800 modules to be removed

Proposed EE 1No. CL Controls Wiltshire cabinet on proposed root foundation c/w EE 2No. AREA modules (1800), 2No. ARG modules (2100), 2No. ARHA modules (2600), PSU, DCDCU & 6No. RD0662-H4-01 (1800/2100/2600) combiners

Existing EE/H3G Node B cabinet on root foundation. Existing EE & H3G U2100 RF Module & MK2 UCU's to be removed

Proposed EE 1No. Weston cabinet on proposed root foundation c/w GPS Node, AMIA Subrack, DCDCU & PSU

Existing EE/H3G Mk3 link AC cabinet with top hat Expansion on root foundation c/w single phase 100A REC supply & Tx equipment

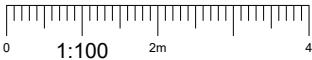
Tree Level +8.0m AGL

Existing EE/H3G Wraparound Cabinet installed on root foundation c/w EE 1No. 5G power BOB & H3G 1No. Local DC fibre BOB

Existing H3G bowler cabinet installed on root foundation c/w 3No. 2262 ERS (700/800), 3No. 4480 ERS (1800/2100), 6No. 2012 ERS (1400), 6No. KRF102452 (1400) filters and 6No. RD0840 (14/18/21) combiners

Ground Level +0m AGL

PROPOSED SITE ELEVATION A



NOTES:

1. ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.

Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M001	MBNL	Vendor Swap	Detailed Design	A1
Date:	25/06/2024	Revision / Upgrade Description:		
Drawn:	KOK	Detailed Design		
Checked:	KS			
Approved:	KTL			



Hatfield Business Park
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Design & Principal Consultant:



UK Office:
UBC Building, 1310 Solihull Parkway,
Birmingham Business Park, B37 7YU

Tel: +44 (0)1908 377 766
Email: info@ktl.ie

Site Name:

CAMBRIDGE ROAD LAMP POST

Site ID:

929270

Address:

LAMPPOST 186
A505 CAMBRIDGE ROAD
PURWELL
HITCHIN
HERTFORDSHIRE
SG4 0JW

Title: 250 PROPOSED SITE ELEVATION A
SHEET 1 OF 2

Project:

VENDOR SWAP

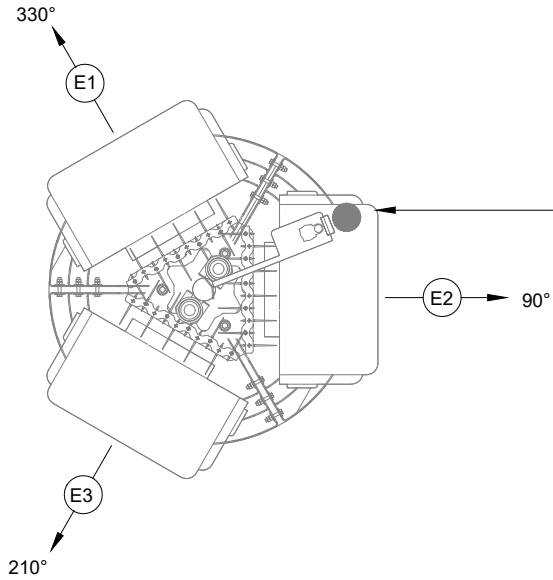
Purpose of Issue:

DETAILED DESIGN

EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
51014	NHE009	SG0168

Master Drawing No: 929270_NHE009_51014_SG0168_M001

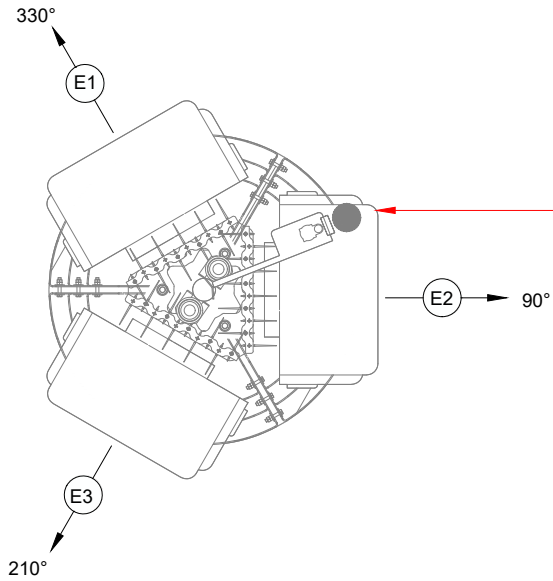
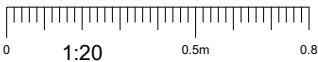
Issue: A1



Existing EE/H3G 3No. Kathrein 800482001 antennas installed on Phase 7 pole

Existing EE 3No. RD0433 (1800) MHA's & H3G 3No. RD0448_02 (1800/2100) MHA's installed on phase 7 monopole

EXISTING ANTENNA PLAN



Existing EE/H3G 3No. Kathrein 800482001 antennas installed on Phase 7 pole

Existing EE 3No. RD0433 (1800) MHA's & H3G 3No. RD0448_02 (1800/2100) MHA's installed on phase 7 monopole to be removed

PROPOSED ANTENNA PLAN



- NOTES:
- ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.

Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M001	MBNL	Vendor Swap	Detailed Design	A1
Date:	25/06/2024	Revision / Upgrade Description:		
Drawn:	KOK	Detailed Design		
Checked:	KS			
Approved:	KTL			



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Site Name:
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Site ID:
929270

Address:
LAMPPOST 186
A505 CAMBRIDGE ROAD
PURWELL
HITCHIN
HERTFORDSHIRE
SG4 0JW

Title:
310 ANTENNA PLAN

Project:
VENDOR SWAP

Purpose of Issue:
DETAILED DESIGN

EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
51014	NHE009	SG0168

Master Drawing No:	Issue:
929270_NHE009_51014_SG0168_M001	A1

EXISTING ANTENNA SCHEDULE																									
ANTENNAS							FEEDER/FIBRE							BOBS / MHA's / RRU's / JUMPERS / ROUTERS										Antenna Status / Additional comments	
Antenna ID	Antenna Manufacturer & Type	Antenna AGL (m) TOP C/L U/S	Antenna Bearing (°)	Operator	Spectrum Port number	Tech Deployed	Type & Length(m)					Main Feeder Type (COAX or Fibre)	Main Feeders QTY	Fibre Trunk 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)	MHA Type	Passive Router (Low Level)	Active Router (High Level)		COAX Feeder Loss (db)
							Low level Jumper	Main Feeder	High Level Jumper 1 (MHA)	High Level Jumper 2 (router/ combiner)	Total														
E1	KATHREIN 800482001	17.35 16.60 15.85	330°	-	1 - 2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Remain
				H3G	3 - 4	700/800	4-50 =6m	5-50=16m	4-50=1m	-	23m	COAX	2No. Existing	-	-	-	-	2262 ERS	-	-	-	-	-1.06		
				H3G	5 - 6	14/18/21	4-50 =6m	5-50=16m	4-50=1m	-	23m	COAX	2No. Existing	-	-	-	-	4480 ERS/ 2No. 2012 ERS	-	-	RD0840 (14/18/21)	-	-1.69/-1.83		
				-	7 - 8	-	4-50 =6m	5-50=16m	4-50=1m	-	23m	COAX	2No. Existing	-	-	-	-	RFU	-	RD0448_02	MK2 UCU	-	-1.83		
				EE	9 - 10	1800	4-50 =6m	5-50=16m	4-50=1m	-	23m	COAX	2No. Existing	-	-	-	-	RFU	-	RD0433	-	-	-1.69		
				H3G	11 - 12	14/18/21	4-50 =6m	5-50=16m	4-50=1m	-	23m	COAX	2No. Existing	-	-	-	-	4480 ERS/ 2No. 2012 ERS	-	-	RD0840 (14/18/21)	-	-1.69/-1.83		
E2	KATHREIN 800482001	17.35 16.60 15.85	90°	-	1 - 2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Remain
				H3G	3 - 4	700/800	4-50 =6m	5-50=16m	4-50=1m	-	23m	COAX	2No. Existing	-	-	-	-	2262 ERS	-	-	-	-	-1.06		
				H3G	5 - 6	14/18/21	4-50 =6m	5-50=16m	4-50=1m	-	23m	COAX	2No. Existing	-	-	-	-	4480 ERS/ 2No. 2012 ERS	-	-	RD0840 (14/18/21)	-	-1.69/-1.83		
				-	7 - 8	-	4-50 =6m	5-50=16m	4-50=1m	-	23m	COAX	2No. Existing	-	-	-	-	RFU	-	RD0448_02	MK2 UCU	-	-1.83		
				EE	9 - 10	1800	4-50 =6m	5-50=16m	4-50=1m	-	23m	COAX	2No. Existing	-	-	-	-	RFU	-	RD0433	-	-	-1.69		
				H3G	11 - 12	14/18/21	4-50 =6m	5-50=16m	4-50=1m	-	23m	COAX	2No. Existing	-	-	-	-	4480 ERS/ 2No. 2012 ERS	-	-	RD0840 (14/18/21)	-	-1.69/-1.83		
E3	KATHREIN 800482001	17.35 16.60 15.85	210°	-	1 - 2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Remain
				H3G	3 - 4	700/800	4-50 =6m	5-50=16m	4-50=1m	-	23m	COAX	2No. Existing	-	-	-	-	2262 ERS	-	-	-	-	-1.06		
				H3G	5 - 6	14/18/21	4-50 =6m	5-50=16m	4-50=1m	-	23m	COAX	2No. Existing	-	-	-	-	4480 ERS/ 2No. 2012 ERS	-	-	RD0840 (14/18/21)	-	-1.69/-1.83		
				-	7 - 8	-	4-50 =6m	5-50=16m	4-50=1m	-	23m	COAX	2No. Existing	-	-	-	-	RFU	-	RD0448_02	MK2 UCU	-	-1.83		
				EE	9 - 10	1800	4-50 =6m	5-50=16m	4-50=1m	-	23m	COAX	2No. Existing	-	-	-	-	RFU	-	RD0433	-	-	-1.69		
				H3G	11 - 12	14/18/21	4-50 =6m	5-50=16m	4-50=1m	-	23m	COAX	2No. Existing	-	-	-	-	4480 ERS/ 2No. 2012 ERS	-	-	RD0840 (14/18/21)	-	-1.69/-1.83		

Note: EE Node B 3G 2100 has been soft-decommmed

Master: M001

MBNL / EE / H3G: MBNL

Project: Vendor Swap

Purpose of Issue: Detailed Design

Issue: A1

Date: 25/06/2024

Drawn: KOK

Checked: KS

Approved: KTL

Revision / Upgrade Description: Detailed Design



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Site Name:

CAMBRIDGE ROAD LAMP POST

Site ID:

929270

Address:

LAMPPOST 186
A505 CAMBRIDGE ROAD
PURWELL
HITCHIN
HERTFORDSHIRE
SG4 0JW

Title:

320 EXISTING ANTENNA SCHEDULE

Project:

VENDOR SWAP

Purpose of Issue:

DETAILED DESIGN

EE Cell ID: 51014

MBNL Cell ID: NHE009

3UK Cell ID: SG0168

Master Drawing No: 929270_NHE009_51014_SG0168_M001

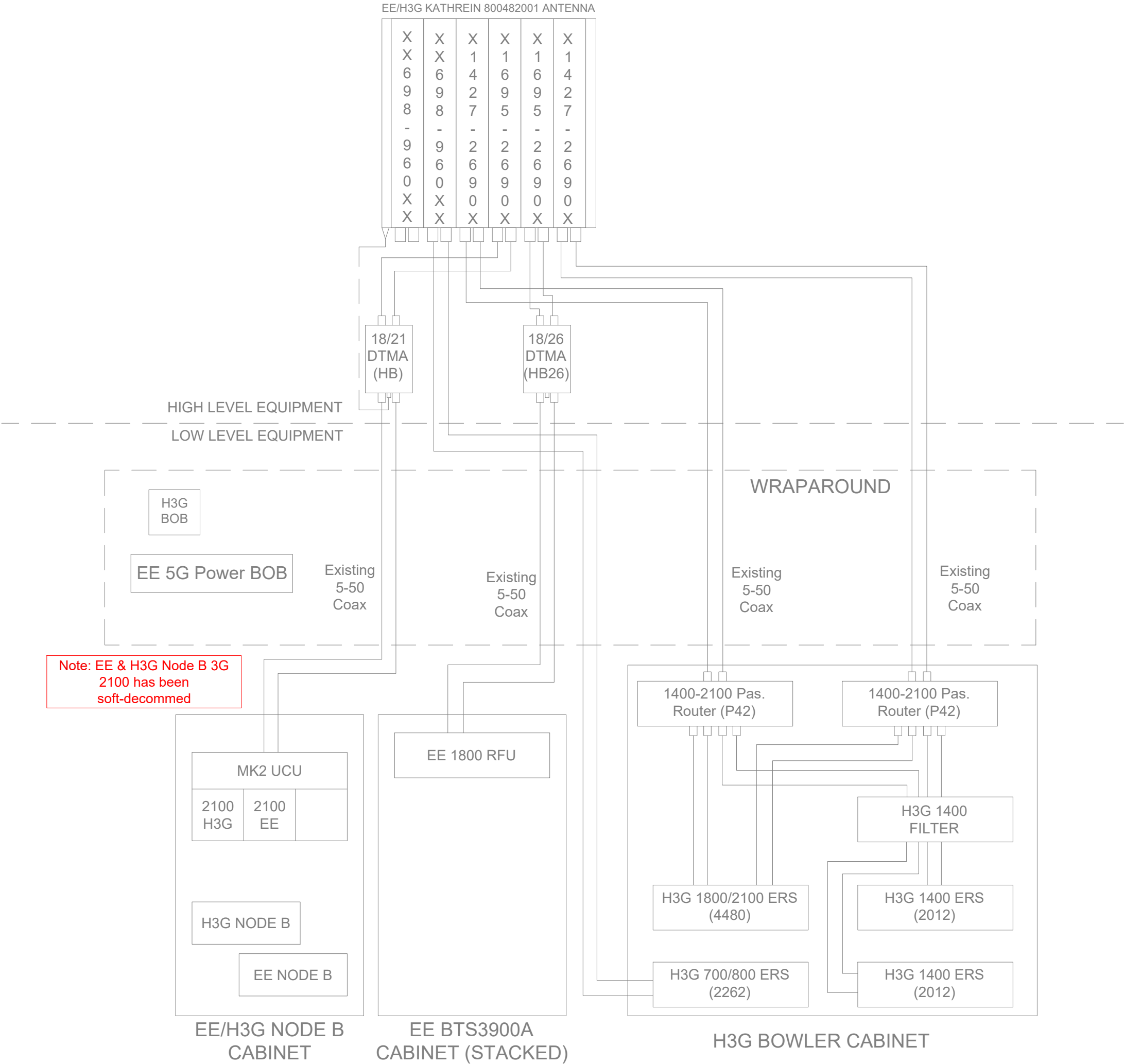
Issue: A1

100mm

150mm

10mm





Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M001	MBNL	Vendor Swap	Detailed Design	A1
Date:	25/06/2024	Revision / Upgrade Description:		
Drawn:	KOK	Detailed Design		
Checked:	KS			
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 Tel: +44 (0)1908 377 766 Email: info@ktl.ie		
Site Name:				
CAMBRIDGE ROAD LAMP POST				
Site ID:				
929270				
Address:				
LAMPPOST 186 A505 CAMBRIDGE ROAD PURWELL HITCHIN HERTFORDSHIRE SG4 0JW				
Title:				
325 EXISTING ANTENNA LINE CONFIGURATION				
Project:				
VENDOR SWAP				
Purpose of Issue:				
DETAILED DESIGN				
EE Cell ID:		MBNL Cell ID:		3UK Cell ID:
51014		NHE009		SG0168
Master Drawing No:				Issue:
929270_NHE009_51014_SG0168_M001				A1

PROPOSED ANTENNA SCHEDULE (Proposed / Existing-Remain)																										
ANTENNAS							FEEDER/FIBRE							BOBS / MHA's / RRU's / JUMPERS / ROUTERS												Antenna Status / Additional comments
Antenna ID	Antenna Manufacturer & Type	Antenna AGL (m) TOP C/L U/S	Antenna Bearing (°)	Operator	Spectrum Port number	Tech Deployed	Type & Length(m)					Main Feeder Type (COAX or Fibre)	Main Feeders QTY Existing / Proposed	Fibre Trunk 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)	MHA Type	Passive Router (Low Level)	Active Router (High Level)	COAX Feeder Loss (db)		
							Low level Jumper	Main Feeder	High Level Jumper 1 (MHA)	Low Level Jumper 2 (router/ combiner)	Total															
E1	KATHREIN 800482001	17.35 16.60 15.85	330°	-	1 - 2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Remain	
				H3G	3 - 4	700/800	4-50 =6m	5-50=16m	4-50=1m	-	23m	COAX	2No. Existing	-	-	-	-	-	2262 ERS	-	-	-	-	-		-1.06
				H3G	5 - 6	14/18/21	4-50 =6m	5-50=16m	4-50=1m	-	23m	COAX	2No. Existing	-	-	-	-	-	4480 ERS/ 2No. 2012 ERS	-	-	-	RD0840 (14/18/21)	-		-1.69/ -1.83
				EE	7 - 8	18/21/26	4-50 =5m	5-50=16m	4-50=1m	-	22m	COAX	2No. Existing	-	-	-	-	-	AREA/ARGA/ARHA	-	-	-	RD0662-H4-01	-		-1.69/ -1.83/2.09
				EE	9 - 10	18/21/26	4-50 =5m	5-50=16m	4-50=1m	-	22m	COAX	2No. Existing	-	-	-	-	-	AREA/ARGA/ARHA	-	-	-	RD0662-H4-01	-		-1.69/ -1.83/2.09
E2	KATHREIN 800482001	17.35 16.60 15.85	90°	-	1 - 2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Remain	
				H3G	3 - 4	700/800	4-50 =6m	5-50=16m	4-50=1m	-	23m	COAX	2No. Existing	-	-	-	-	-	2262 ERS	-	-	-	-	-		-1.06
				H3G	5 - 6	14/18/21	4-50 =6m	5-50=16m	4-50=1m	-	23m	COAX	2No. Existing	-	-	-	-	-	4480 ERS/ 2No. 2012 ERS	-	-	-	RD0840 (14/18/21)	-		-1.69/ -1.83
				EE	7 - 8	18/21/26	4-50 =5m	5-50=16m	4-50=1m	-	22m	COAX	2No. Existing	-	-	-	-	-	AREA/ARGA/ARHA	-	-	-	RD0662-H4-01	-		-1.69/ -1.83/2.09
				EE	9 - 10	18/21/26	4-50 =5m	5-50=16m	4-50=1m	-	22m	COAX	2No. Existing	-	-	-	-	-	AREA/ARGA/ARHA	-	-	-	RD0662-H4-01	-		-1.69/ -1.83/2.09
E3	KATHREIN 800482001	17.35 16.60 15.85	210°	-	1 - 2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Remain	
				H3G	3 - 4	700/800	4-50 =6m	5-50=16m	4-50=1m	-	23m	COAX	2No. Existing	-	-	-	-	-	2262 ERS	-	-	-	-	-		-1.06
				H3G	5 - 6	14/18/21	4-50 =6m	5-50=16m	4-50=1m	-	23m	COAX	2No. Existing	-	-	-	-	-	4480 ERS/ 2No. 2012 ERS	-	-	-	RD0840 (14/18/21)	-		-1.69/ -1.83
				EE	7 - 8	18/21/26	4-50 =5m	5-50=16m	4-50=1m	-	22m	COAX	2No. Existing	-	-	-	-	-	AREA/ARGA/ARHA	-	-	-	RD0662-H4-01	-		-1.69/ -1.83/2.09
				EE	9 - 10	18/21/26	4-50 =5m	5-50=16m	4-50=1m	-	22m	COAX	2No. Existing	-	-	-	-	-	AREA/ARGA/ARHA	-	-	-	RD0662-H4-01	-		-1.69/ -1.83/2.09
				H3G	11 - 12	14/18/21	4-50 =6m	5-50=16m	4-50=1m	-	23m	COAX	2No. Existing	-	-	-	-	-	4480 ERS/ 2No. 2012 ERS	-	-	-	RD0840 (14/18/21)	-	-1.69/ -1.83	

Note: EE/H3G Node B 3G 2100 has been soft-decommmed

Master: M001

MBNL / EE / H3G: MBNL

Project: Vendor Swap

Purpose of Issue: Detailed Design

Issue: A1

Date: 25/06/2024

Drawn: KOK

Checked: KS

Approved: KTL

Revision / Upgrade Description: Detailed Design



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Site ID:

929270

Address:

LAMPPOST 186
A505 CAMBRIDGE ROAD
PURWELL
HITCHIN
HERTFORDSHIRE
SG4 0JW

Title:

330 PROPOSED ANTENNA SCHEDULE

Project:

VENDOR SWAP

Purpose of Issue:

DETAILED DESIGN

EE Cell ID:

51014

MBNL Cell ID:

NHE009

3UK Cell ID:

SG0168

Master Drawing No:

929270_NHE009_51014_SG0168_M001

Issue:

A1

100mm

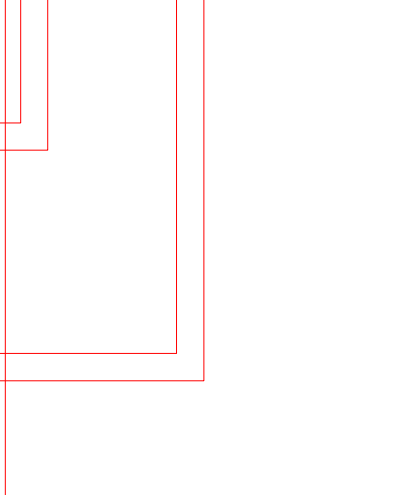
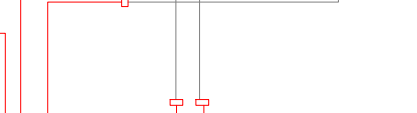
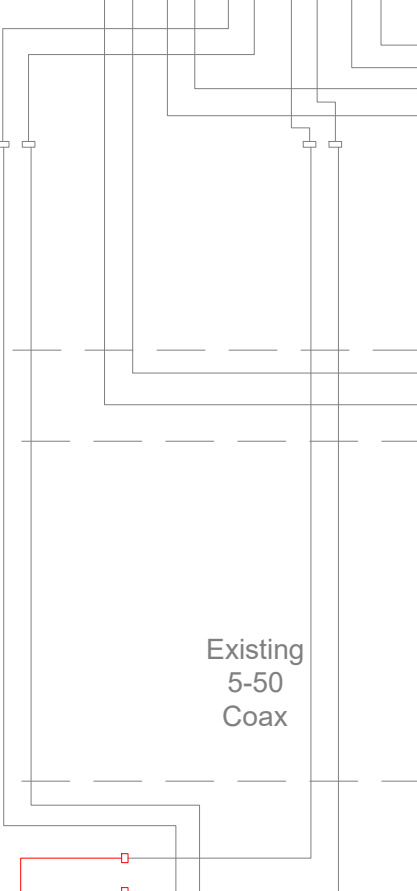
50mm

10mm



EE/H3G KATHREIN 800482001 ANTENNA

X	X	X	X	X	X
X	X	1	1	1	1
6	6	4	6	6	4
9	9	2	9	9	2
8	8	7	5	5	7
-	-	-	-	-	-
9	9	2	2	2	2
6	6	6	6	6	6
0	0	9	9	9	9
X	X	0	0	0	0
X	X	X	X	X	X



HIGH LEVEL EQUIPMENT

LOW LEVEL EQUIPMENT

H3G
BOB

EE 5G Power BOB

Existing
5-50
Coax

Existing
5-50
Coax

WRAPAROUND

Existing
5-50
Coax

Existing
5-50
Coax

1400-2100 Pas.
Router (P42)

1400-2100 Pas.
Router (P42)

H3G 1800/2100 ERS
(4480)

H3G 700/800 ERS
(2262)

H3G 1400
FILTER

H3G 1400 ERS
(2012)

H3G 1400 ERS
(2012)

H3G BOWLER CABINET

EE Soft Decomm Forecast

30/08/2023

EE Soft Decomm Actual

30/08/2023

End of EE Soft Decomm Monitoring

30/09/2023

EE Monitoring Period Result

PASS

3UK Soft Decomm Forecast

21/04/2023

3UK Soft Decomm Actual

21/04/2023

End of 3UK Soft Decomm Monitoring

21/05/2023

3UK Monitoring Period Result

PASS

100mm

50mm

10mm

2G/4G
(LEFT) 5G
(RIGHT)

AMIA SUBRACK

PSU

DISTRIBUTION
BOARD

PSU

DISTRIBUTION
BOARD

AREA (1800P)

ARGA (2100P)

ARHA (2600P)

AREA (1800S)

ARGA (2100S)

ARHA (2600S)

RD0662-H4-01
(18/21/26)
RD0662-H4-01
(18/21/26)

EE WESTON CABINET

EE WILTSHIRE CABINET

Key

Description	Line Style
Proposed 700/800	—
Proposed 3G 1800/2100	—
Proposed LTE 1800/2100	—
Proposed 2600	—
Proposed 3400-3600	—
Existing Feeders, Jumpers, Equipment	—
Proposed Feeders & Equipment	—
Proposed Power Cables	—
Proposed Single Mode Fibre	—
Proposed Multimode Fibre / Hybrid Trunking	—
RET Cables	—

Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M001	MBNL	Vendor Swap	Detailed Design	A1
Date:	25/06/2024	Revision / Upgrade Description:		
Drawn:	KOK	Detailed Design		
Checked:	KS			
Approved:	KTL			



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A505 CAMBRIDGE ROAD
PURWELL
HITCHIN
HERTFORDSHIRE
SG4 0JW

Title:

335 PROPOSED LINE CONFIGURATION

Project:

VENDOR SWAP

Purpose of Issue:

DETAILED DESIGN

EE Cell ID:

51014

MBNL Cell ID:

NHE009

3UK Cell ID:

SG0168

Master Drawing No:

929270_NHE009_51014_SG0168_M001

Issue:

A1

Proposed Operators Carrier Count	
Frequency	Count:
700	0
800	0
1800	2
2100	1
2600	3
3500	0

100mm

50mm

10mm

Support Structure Schedule								
Structure ID	Status	Height / Length AGL (m)	Structure Manufacturer	Description / Type	Colour / Finishing (RAL Colour)	Size (mm)	Foundation / Support Grillage / Host Structure Details	Comments
ST1	Existing	18.0m	Valmont	Phase 7 pole	RAL 7035	A9	Root Foundation	-

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Equipment Schedule

Equipment ID	Operator	Quantity	Status	Equipment Manufacturer	Equipment Description / Type	Dimensions (H x W x D)	Weight (kg)	Colour (RAL Colour)	Location	Comments
CAB1	EE/H3G	1	Existing	Siemens	Node B Cabinet	1240x900x800	300kg	RAL 7035	Ground Level	-
CAB2	EE/H3G	1	Existing	Portastor	MK3 Link AC cabinet	1666x606x515	190kg	RAL 6009	Ground Level	c/w Top Hat Expansion
CAB3	H3G	1	Existing	Commscope	Bowler cabinet	1752x1900x660	250kg	RAL 7035	Ground Level	-
CAB4	H3G	1	Existing	Ericsson	RBS 6130 Cabinet	950x650x700	250kg	RAL 7035	Ground Level	-
CAB5	EE/H3G	1	Existing	Hutchinson	Wraparound Cabinet	1570x1800x750	150kg	RAL 7035	Ground Level	-
CAB6	EE	1	Remove	Huawei	BTS 3900A (Stacked)	1900x600x480	150kg	RAL 7035	Ground Level	-
CAB7	EE	1	Proposed	CL Controls	Wiltshire cabinet	1650x2000x755	780kg	RAL 7035	Ground Level	-
CAB8	EE	1	Proposed	CL Controls	Weston Cabinet	1259x770x700	275kg	RAL 7035	Ground Level	-
AMP1-3	H3G	3	Remove	Radio Design	RD0448_02	168x96x230	5kg	RAL 7035	Structure High Level	For 1800/2100 Technology
AMP4-6	EE	3	Remove	Radio Design	RD0433	96x168x230	5kg	RAL 7035	Structure High Level	For 1800/2600 Technology
COM1-3	EE/H3G	3	Remove	Radio Design	RD0313-01	448x43x237	7.0kg	RAL 7035	Within cabinet	For 1800/2100 Technology within Node B Cabinet
COM4-9	EE	6	Proposed	Radio Design	RD0662-H4-01	116x164x195	3.9kg	RAL 7035	Within cabinet	For 1800/2100/2600 Technology within Wiltshire cabinet
COM10-15	H3G	6	Existing	Radio Design	RD0840	176x190x77	3.2kg	RAL 7035	Within cabinet	-
FIL1-6	H3G	6	Existing	Ericsson	1400 Filters	165x187x106	5kg	RAL 7035	Within Cabinet	-
BB1	H3G	1	Existing	Commscope	Local fibre BOB	200x200x185	10kg	RAL 7035	Within Cabinet	-
RF1-2	EE	2	Proposed	Nokia	AREA	118x441x402	23kg	RAL 7035	Within cabinet	1800 Technology within Wiltshire cabinet
RF3-4	EE	2	Proposed	Nokia	ARGA	118x441x402	23kg	RAL 7035	Within cabinet	2100 Technology within Wiltshire cabinet
RF5-6	EE	2	Proposed	Nokia	ARHA	118x441x402	23kg	RAL 7035	Within cabinet	2600 Technology within Wiltshire cabinet
ERS1-3	H3G	3	Existing	Ericsson	2262 ERS	553x398x190	37.5kg	RAL 7035	Within cabinet	For 700/800 technology
ERS4-6	H3G	3	Existing	Ericsson	4480 ERS	553x398x151	32kg	RAL 7035	Within cabinet	For 1800/2100 Technology
ERS7-12	H3G	6	Existing	Ericsson	2012 ERS	553x398x151	32kg	RAL 7035	Within cabinet	For 1400 Technology
BB1	EE	1	Existing	Rosenberger	Power BOB	180x180x100	1.5kg	RAL 7035	Within cabinet	Within Wraparound cabinet
BBU1	EE	1	Proposed	Nokia	AMIA Subrack	129x447x400	5.1kg	RAL 7035	Within cabinet	BBU within Weston cabinet
GPS 1	EE	1	Proposed	Nokia	AYGE Node	72.5xØ95	0.2kg	RAL 7035	Within Cabinet	GPS node within Weston cabinet

--

GPS NODE Schedule

Equipment ID	Supply Status	Operator	Height (C/L) AGL	Cable Length	Cable type	Location	Comments
GPS1	Installed	H3G	18.20m	20m	4-50	Phase 7 pole	To be installed on Phase 7 pole
GPS2	Proposed	EE	1m	1m	4-50	Within Cabinet	To be installed within Weston cabinet

--

STATUS KEY:

Installed:

Retain:

Relocate:

Remove:

Proposed:

Existing

Existing and to remain

Existing and to be relocated

Existing to be removed from site

New on site

LOCATION KEY:

Outdoor:

Indoor:

Internal:

Located outside

Located within an equipment cabin or equipment room

located inside a cabinet or item of equipment

Master: M001

MBNL / EE / H3G: MBNL

Date: 25/06/2024

Drawn: KOK

Checked: KS

Approved: KTL

Project: Vendor Swap

Purpose of Issue: Detailed Design

Issue: A1

Revision / Upgrade Description: Detailed Design



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Email: info@ktl.ie

Site Name:

CAMBRIDGE ROAD LAMP POST

Site ID:

929270

Address:

LAMPPOST 186
A505 CAMBRIDGE ROAD
PURWELL
HITCHIN
HERTFORDSHIRE
SG4 0JW

Title:

400 EQUIPMENT SCHEDULE & SUPPORT STRUCTURE

Project:

VENDOR SWAP

Purpose of Issue:

DETAILED DESIGN

EE Cell ID: 51014

MBNL Cell ID: NHE009

3UK Cell ID: SG0168

Master Drawing No: 929270_NHE009_51014_SG0168_M001

Issue: A1

AC Power Schedule								
Equipment ID	Supply Status	Operator	Type	Incoming Supply Type	Meter / Service head / location	Distribution Board Manufacturer (cabins / internal rooms)	Upgrade Required (Y / N / TBC at DD)	Comments
CAB2	Existing	EE/H3G	REC	Single Phase 100A	Ground Level	HAGER	N	-
DC Power Schedule								
Supply Status	Operator	Enclosure / Location	Model	Rectifier		Upgrade Required (Y/ N / TBC at DD)	Comments	
				QTY	Size (kw)			
Existing	EE/H3G	MK3 Link AC cabinet	Minipack2	2	1.8	-	-	
Proposed	EE	Wiltshire	PSU	4	3	-	-	
Proposed	EE	Weston	PSU	2	2	-	-	
Transmission Supply Schedule								
Equipment ID	Supply Status	Operator	Enclosure	Type:	Supplier Name	U-Space Available	Comments	
CAB2	Existing	EE/H3G	MK3 Link AC cabinet	Microwave Only	BT	0U	-	

STATUS KEY:

Installed: Existing
Retain: Existing and to remain
Relocate: Existing and to be relocated
Remove: Existing to be removed from site
Proposed: New on site

LOCATION KEY:

Outdoor: Located outside
Indoor: Located within an equipment cabin or equipment room
Internal: located inside a cabinet or item of equipment

Master: M001

Date: 25/06/2024

Drawn: KOK

Checked: KS

Approved: KTL

MBNL / EE / H3G: MBNL

KOK

KS

KTL

Project: Vendor Swap

Revision / Upgrade Description: Detailed Design

Purpose of Issue: Detailed Design

Issue: A1



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PURWELL
HITCHIN
HERTFORDSHIRE
SG4 0JW

Title:

401 POWER & TRANSMISSION SCHEDULE

Project:

VENDOR SWAP

Purpose of Issue:

DETAILED DESIGN

EE Cell ID: 51014

MBNL Cell ID: NHE009

3UK Cell ID: SG0168

Master Drawing No: 929270_NHE009_51014_SG0168_M001

Issue: A1

100mm

50mm

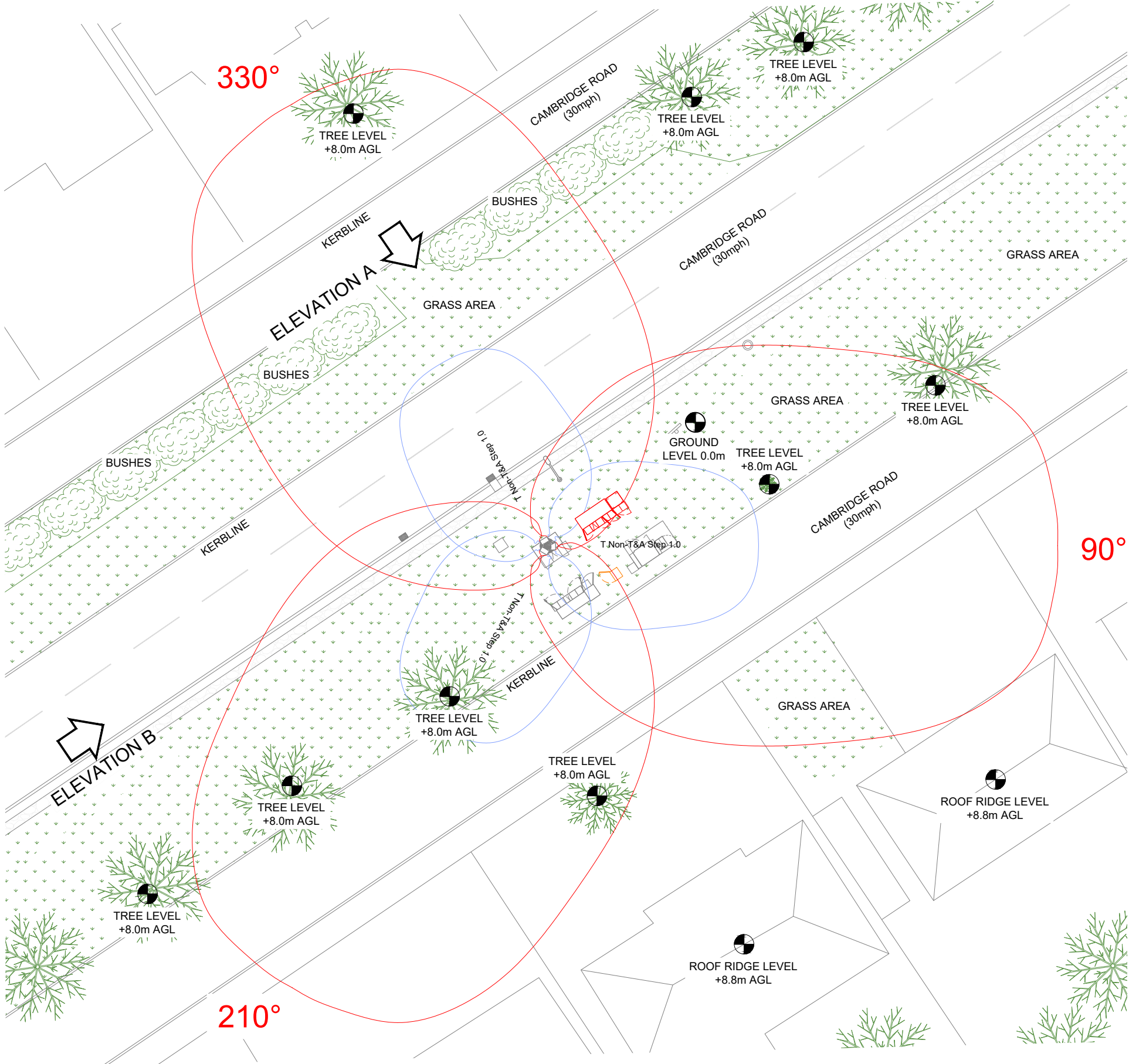
10mm



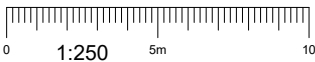
Sector A	Non-T&A - Stepdown 1.0
Sector B	Non-T&A - Stepdown 1.0
Sector C	Non-T&A - Stepdown 1.0

Operators on site (or within 100m)	
EE	Yes
H3G	Yes
CTIL	
UKBB	
Airwave	
Broadcast	
Other	

- NOTES:
- ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.
 - REFER TO TD54000 v11.0 FOR MBNL RF COMPLIANCE GUIDANCE.



RF COMPLIANCE PLAN



Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M001	MBNL	Vendor Swap	Detailed Design	A1
Date:	25/06/2024	Revision / Upgrade Description:		
Drawn:	KOK	Detailed Design		
Checked:	KS			
Approved:	KTL			



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929270

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**LAMPPPOST 186
A505 CAMBRIDGE ROAD
PURWELL
HITCHIN
HERTFORDSHIRE
SG4 0JW**

Title:
500 RF COMPLIANCE PLAN

Project:
VENDOR SWAP

Purpose of Issue:
DETAILED DESIGN

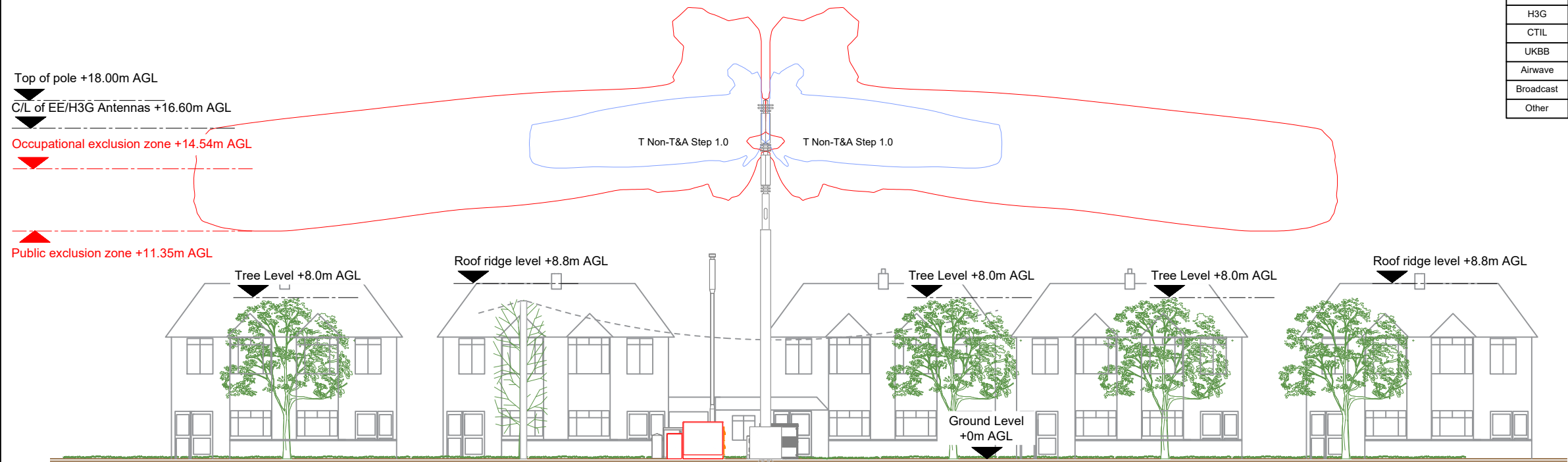
EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
51014	NHE009	SG0168

Master Drawing No:	Issue:
929270_NHE009_51014_SG0168_M001	A1

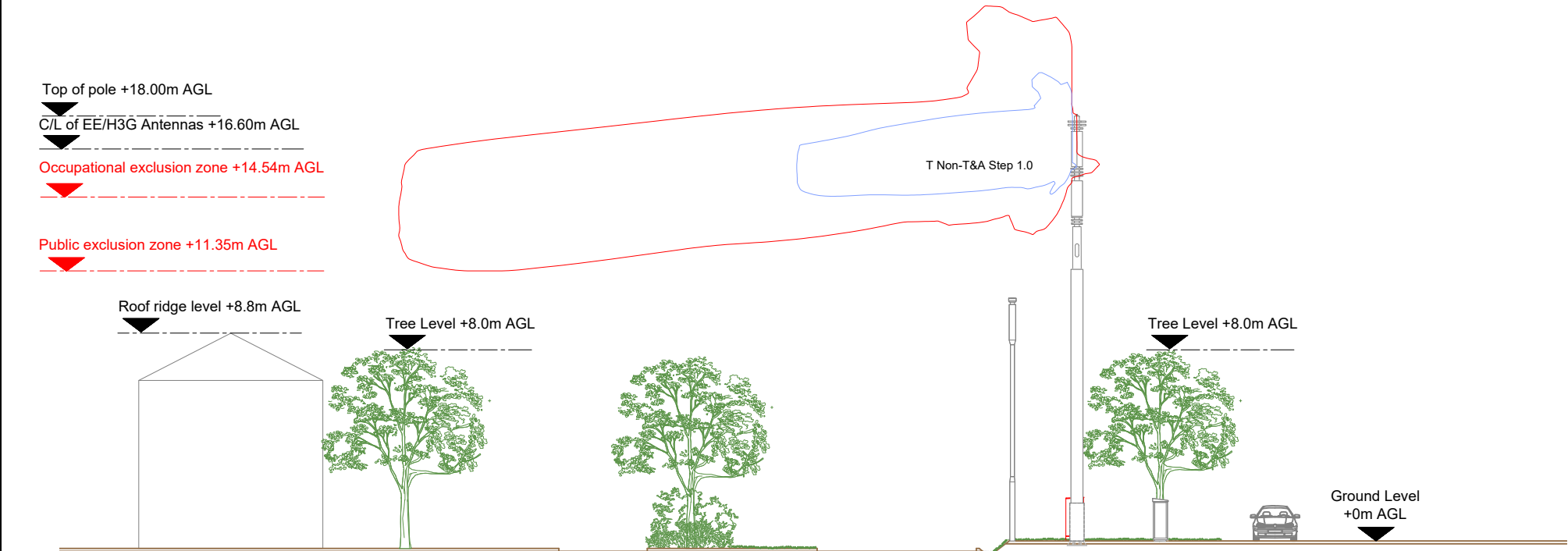
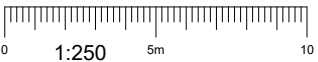
Sector A	Non-T&A - Stepdown 1.0
Sector B	Non-T&A - Stepdown 1.0
Sector C	Non-T&A - Stepdown 1.0

Operators on site (or within 100m)	
EE	Yes
H3G	Yes
CTIL	
UKBB	
Airwave	
Broadcast	
Other	

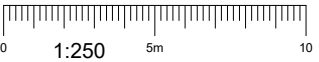
- NOTES:
- ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.
 - REFER TO TD54000 v11.0 FOR MBNL RF COMPLIANCE GUIDANCE.



RF COMPLIANCE ELEVATION A



RF COMPLIANCE ELEVATION B



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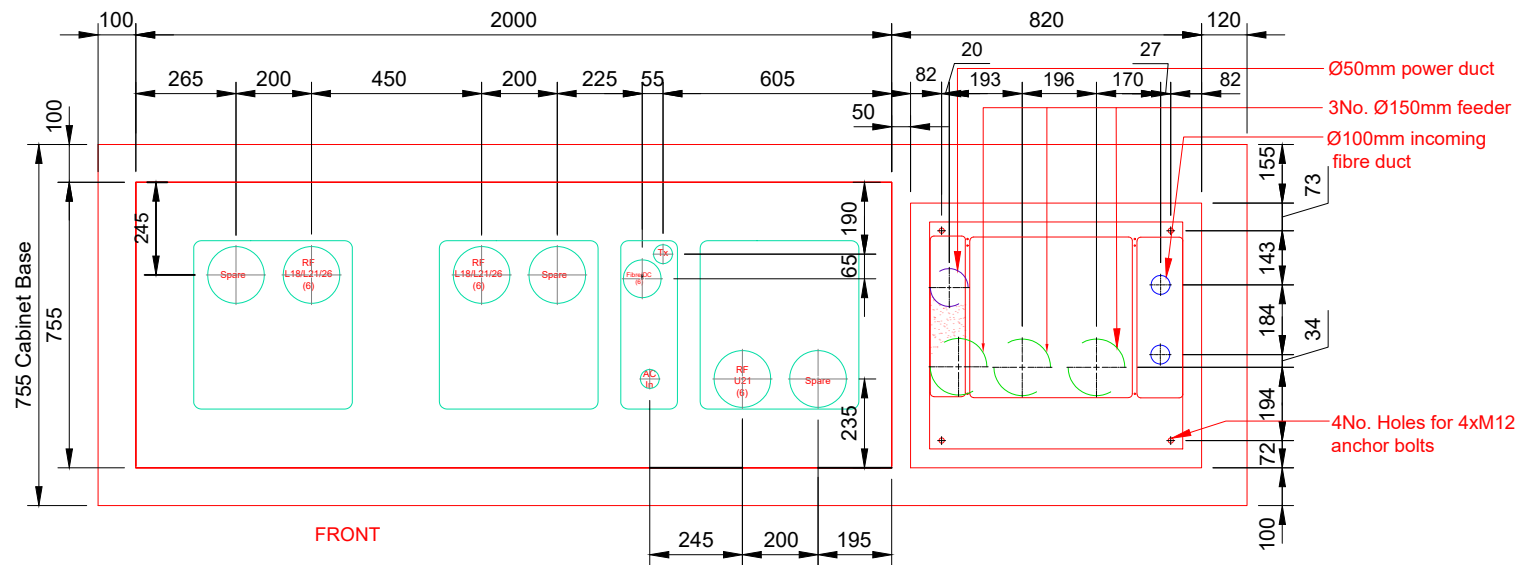
Title:
510 RF COMPLIANCE ELEVATION A & B

Project:
VENDOR SWAP

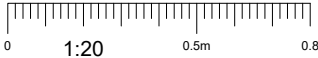
Purpose of Issue:
DETAILED DESIGN

EE Cell ID: 51014	MBNL Cell ID: NHE009	3UK Cell ID: SG0168
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Master Drawing No: 929270_NHE009_51014_SG0168_M001	Issue: A1
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WESTON AND WILTSHIRE BASE & DUCT SETTING OUT



PROPOSED CABINET LOCATION

TOP OF CABINET ROOT TO BE 25mm min. CLEAR OF FINISHED GROUND LEVEL

CABINET BASE TO HAVE 1 LAYER OF A193 MESH BOTTOM, 50mm MIN CONCRETE COVER. BASE CAST ON 50mm CONCRETE BLINDING ON 150mm MIN TYPE1 MOT HARDCORE

150 MIN TYPE 1 MOT HARDCORE

BURIED EARTH MAT AT FORMATION LEVEL MIN 1000 BELOW GROUND LEVEL. ENSURE MATT IS BELOW DUCT LEVEL

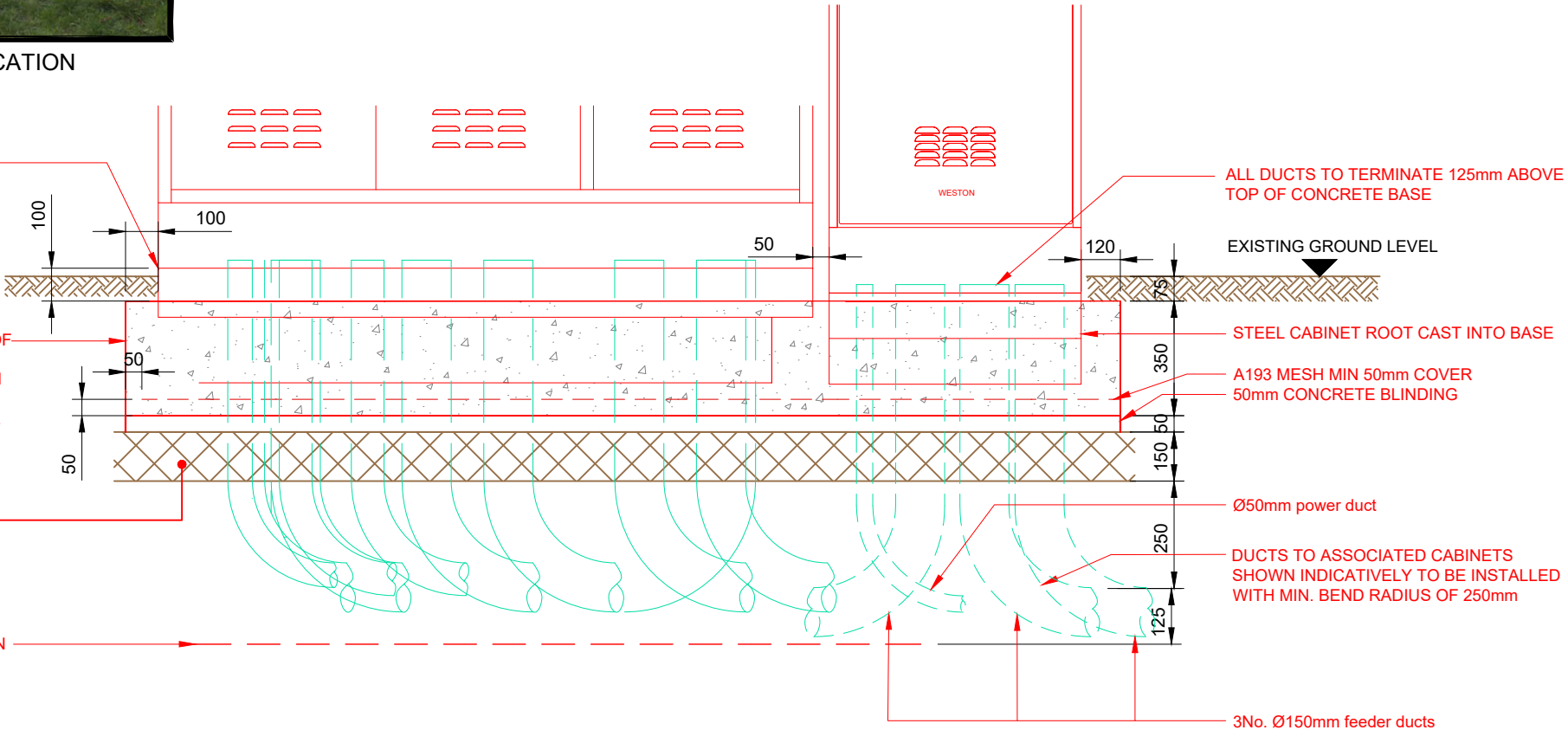
ALL DUCTS TO HAVE TEMP PLASTIC CAPS AND DRAW ROPES THEN SEALED WITH EXPANDING FOAM FOLLOWING CABLE INSTALLATION

NOTE: PCC FLAGS TO FORM HARDSTANDING IN FRONT OF CABINET DOOR. FLAGS LAID ON MORTAR BED ON 150mm MIN. WELL COMPACTED MOT TYPE 1

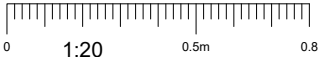
NOTE. PROPOSED CABINET TO BE INSTALLED STRICTLY IN ACCORDANCE WITH MANUFACTURERS DETAILS. REFER TO DESIGN GUIDE FOR ELECTRICAL, EARTHING, TRANSMISSION, ALARM DETAILS, ETC. NEW C32A BREAKER TO BE INSTALLED IN DISTRIBUTION BOARD FOR WILTSHIRE POWER SUPPLY. MAKE OF BREAKER MUST MATCH MAKE OF DB

FINISHES TO BE MADE GOOD TO MATCH EXISTING FOLLOWING INSTALLATION OF EQUIPMENT

DUCTS TO BE BACKFILLED USING WELL COMPACTED MOT TYPE 1 IN 150mm MAX LAYERS



WESTON AND WILTSHIRE TYPICAL SECTION



NOTES:

- ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.

Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M001	MBNL	Vendor Swap	Detailed Design	A1
Date:	25/06/2024	Revision / Upgrade Description:		
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Approved:	KTL			



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PURWELL
HITCHIN
HERTFORDSHIRE
SG4 0JW

Title:
600 DETAILED DESIGN

Project:
VENDOR SWAP

Purpose of Issue:
DETAILED DESIGN

EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
51014	NHE009	SG0168

Master Drawing No:
929270_NHE009_51014_SG0168_M001

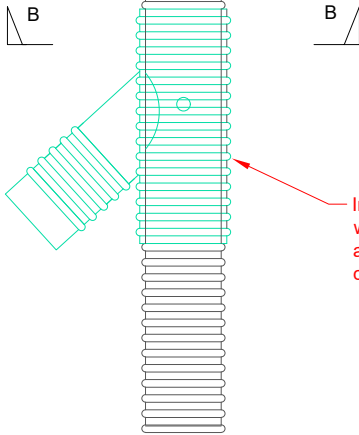
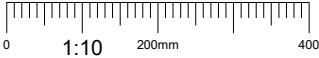
Issue:
A1

Existing Ø50mm power/Ø100mm BT
fibre/Ø150mm feeder ducts

Carefully cut new aperture in the wall of the existing
duct with hand tools only ensure shallow cutting
strokes are used. Install new power cable and push
through to meter cabinet.

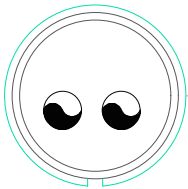
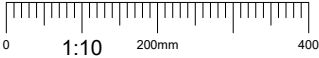
Carefully make a 'pilot' hole in top of the duct so
existing power cable can be seen/located. Using
a rod or long screwdriver, move and hold the
power cable off to the opposite where new
aperture is to be cut.

DUCT TIE-IN DETAIL



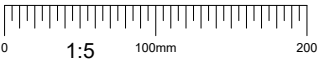
Install new 45° junction 'split' duct over existing duct
with thick bead of mastic sealant to ends of split duct
and to both side of split. Tie in place with plastic
cable ties until mastic goes off.

PROPOSED DUCT TIE-IN DETAIL



INSTALL NEW 45° JUNCTION 'SPLIT'
DUCT OVER EXISTING DUCT WITH THICK
BEAD OF MASTIC SEALANT TO ENDS OF
SPLIT DUCT AND TO BOTH SIDE OF
SPLIT. TIE IN PLACE WITH PLASTIC
CABLE TIES UNTIL MASTIC GOES OFF.

SECTION B-B



NOTES:

1. ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.

Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M001	MBNL	Vendor Swap	Detailed Design	A1
Date:	25/06/2024	Revision / Upgrade Description:		
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Checked:	KS			
Approved:	KTL			



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Address:

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SG4 0JW

Title:

601 DETAILED DESIGN

Project:

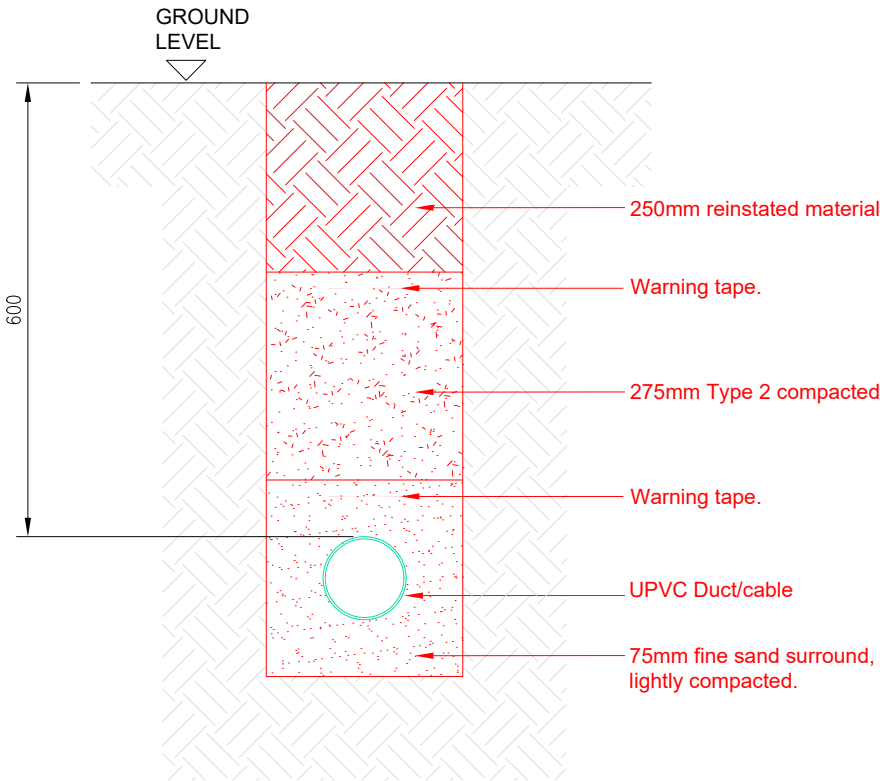
VENDOR SWAP

Purpose of Issue:

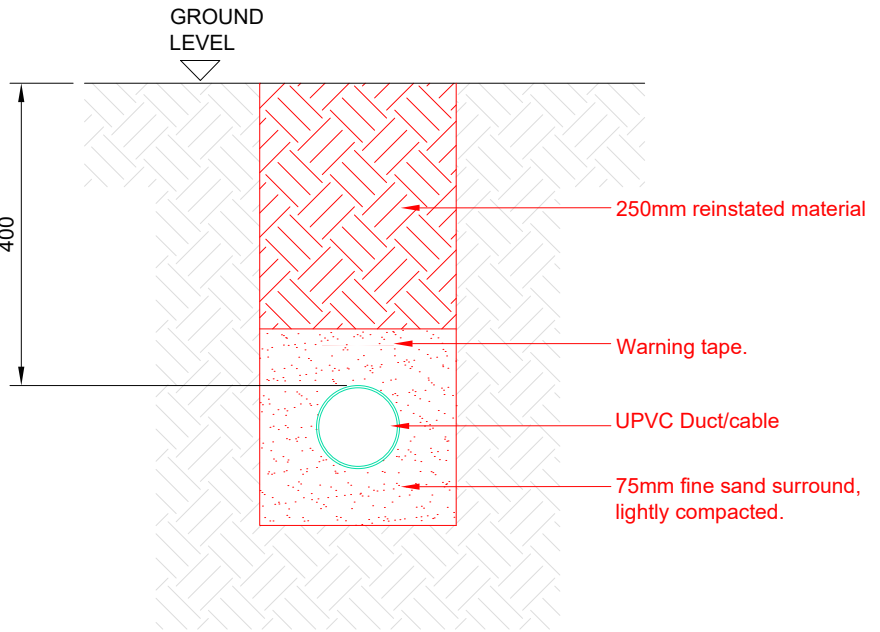
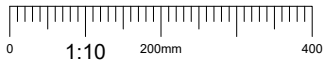
DETAILED DESIGN

EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
51014	NHE009	SG0168

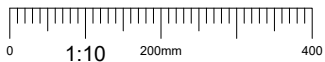
Master Drawing No:	Issue:
929270_NHE009_51014_SG0168_M001	A1



TRENCH DETAILS - DUCT IN A TRAFFIC ZONE AREA



TRENCH DETAILS - DUCT IN A NON-TRAFFIC ZONE AREA



DUCTING NOTES

- 100mm Dia ducts to have 350mm min. ground cover and 600mm under trafficked areas. feeder cable duct to have 600mm radius bends. all ducts not encased in concrete to have min. 75mm bed and surround with pea gravel or sand material. comms and feeder cable ducts to be colour coded light grey, and electrical power / earthing ducts to be black.
- All ducts shall be sealed with expanded foam after cable installation.
- 2No. draw cords to be marked at ground level with timber markers. spare feeder ducts to be capped 25mm below ground level and covered with concrete.

Information on Significant Residual Risks

Construction	Maintenance	Decommissioning
On the basis of information available to the designer at the time of design production, there are no unobvious, unusual or difficult to manage significant risks associated with this design	On the basis of information available to the designer at the time of design production, there are no unobvious, unusual or difficult to manage significant risks associated with this design	On the basis of information available to the designer at the time of design production, there are no unobvious, unusual or difficult to manage significant risks associated with this design

NOTES:

- ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.

Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M001	MBNL	Vendor Swap	Detailed Design	A1
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PURWELL
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SG4 0JW

Title:
602 DETAILED DESIGN

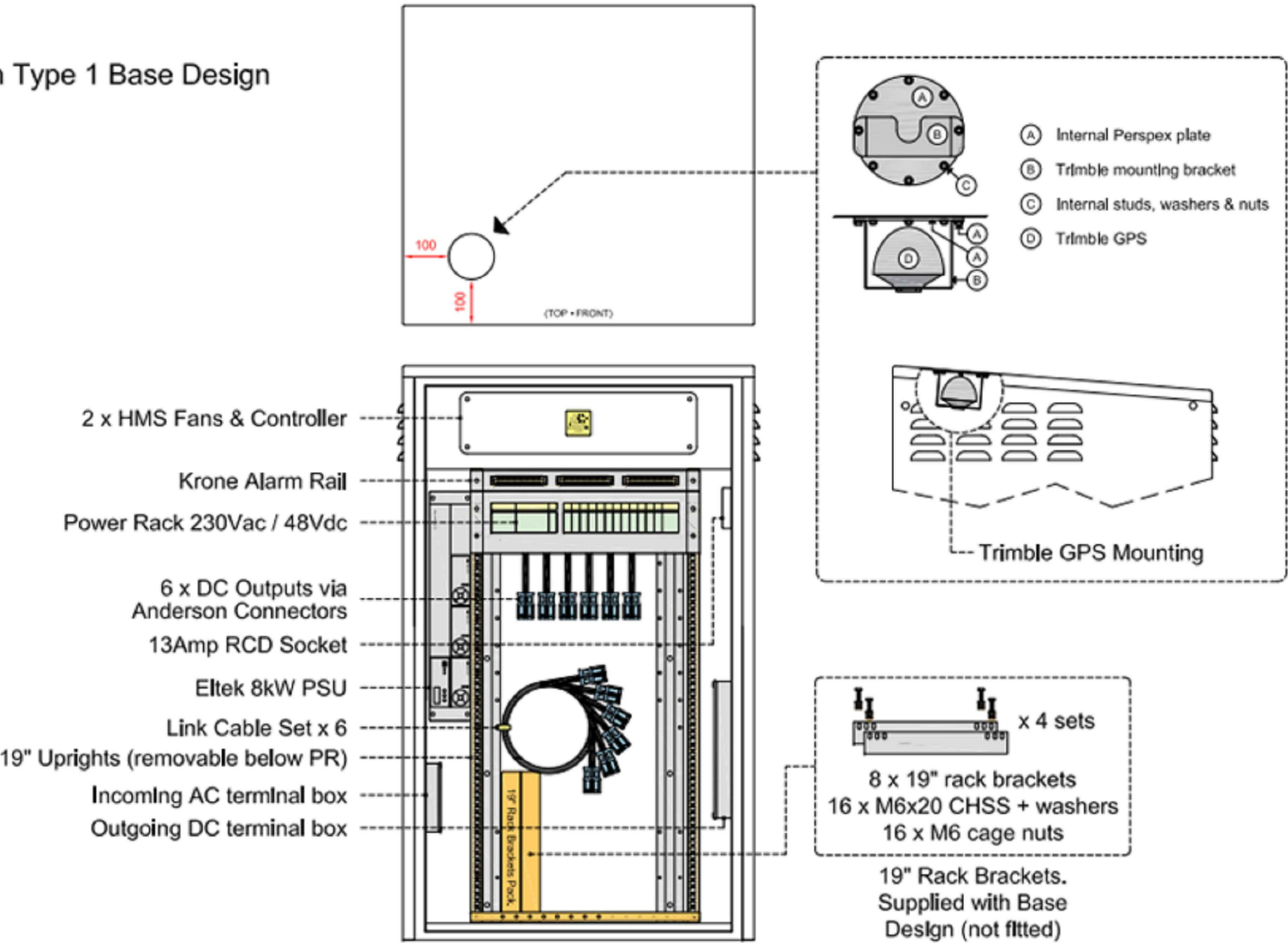
Project:
VENDOR SWAP

Purpose of Issue:
DETAILED DESIGN

EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
51014	NHE009	SG0168

Master Drawing No:	Issue:
929270_NHE009_51014_SG0168_M001	A1

Weston Type 1 Base Design



GPS SOLUTION

NOTES:
1. ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.

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Date:	25/06/2024	Revision / Upgrade Description:		
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Checked:	KS			
Approved:	KTL			



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HERTFORDSHIRE
SG4 0JW

Title:

603 DETAILED DESIGN

Project:

VENDOR SWAP

Purpose of Issue:

DETAILED DESIGN

EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
51014	NHE009	SG0168

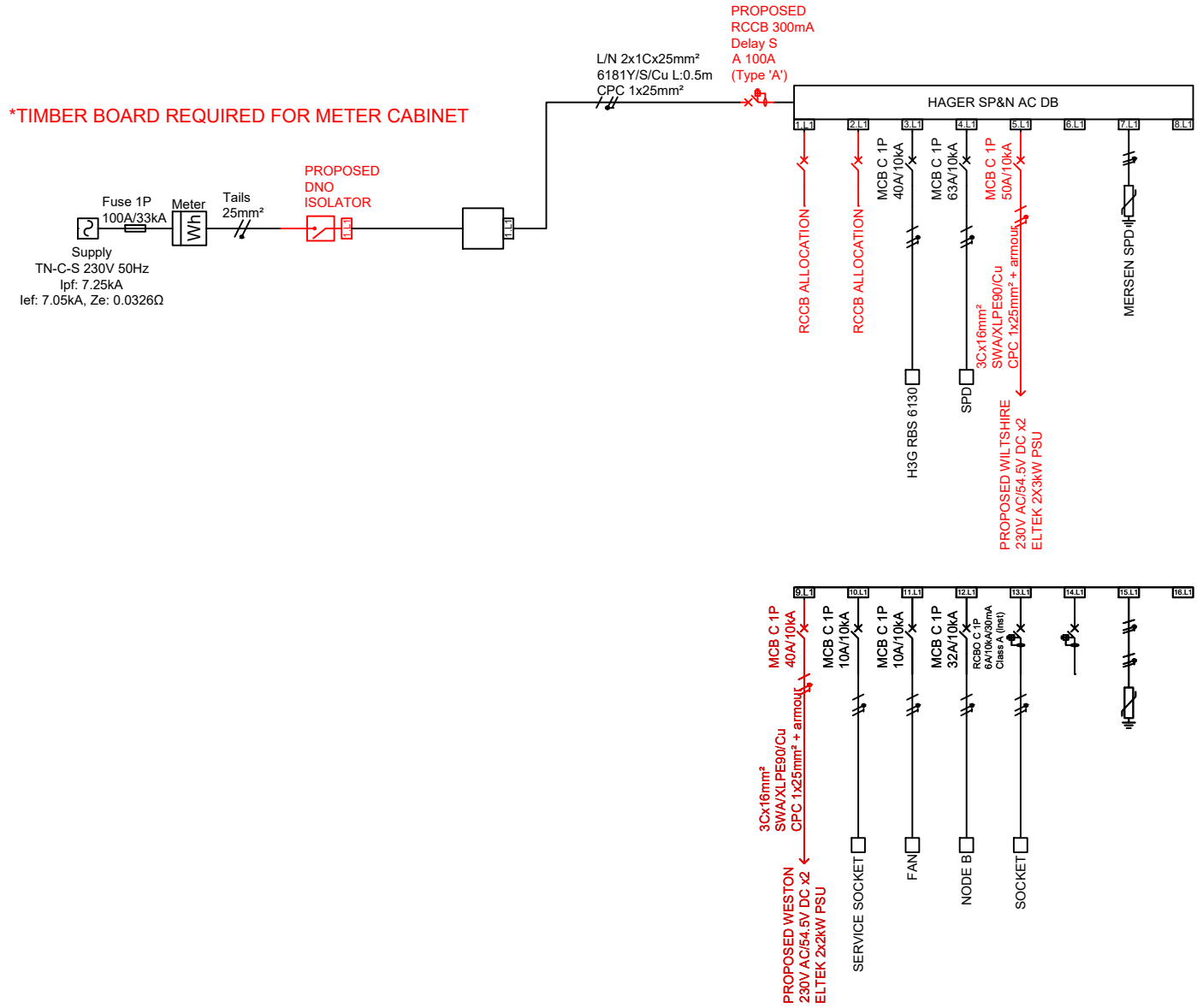
Master Drawing No:	Issue:
929270_NHE009_51014_SG0168_M001	A1



EXISTING THREE PHASE 100A REC SUPPLY

IMPORTANT
DNO ISOLATION REQUIRED FOR THE
INSTALLATION OF DNO ISOLATOR

MK4 Link AC Cabinet



AC ELECTRICAL SCHEMATIC
N.T.S.

- NOTES:
- ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.

Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
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HERTFORDSHIRE
SG4 0JW

Title:
700 AC ELECTRICAL SCHEMATIC

Project:
VENDOR SWAP

Purpose of Issue:
DETAILED DESIGN

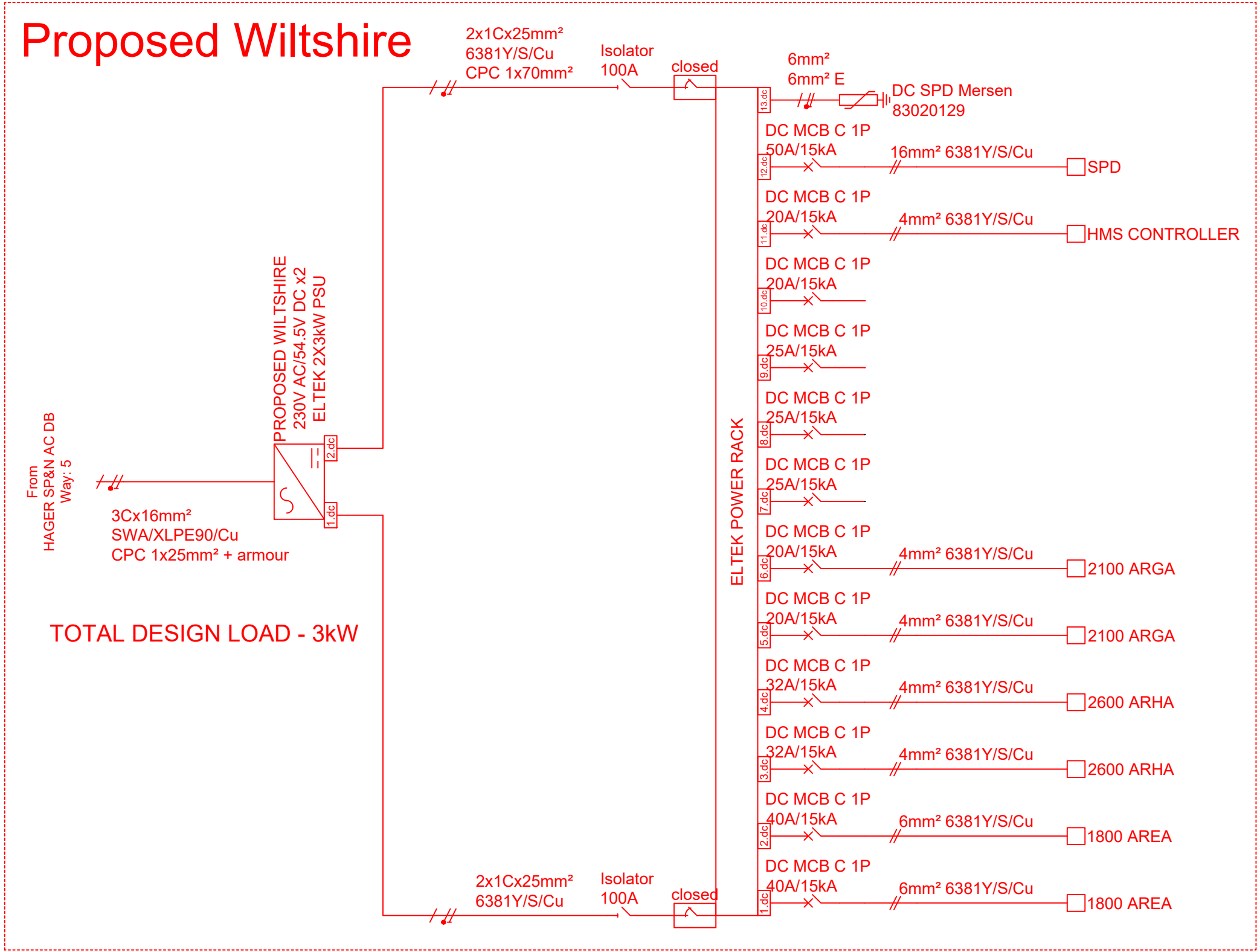
EE Cell ID: 51014	MBNL Cell ID: NHE009	3UK Cell ID: SG0168
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Master Drawing No: 929270_NHE009_51014_SG0168_M001	Issue: A1
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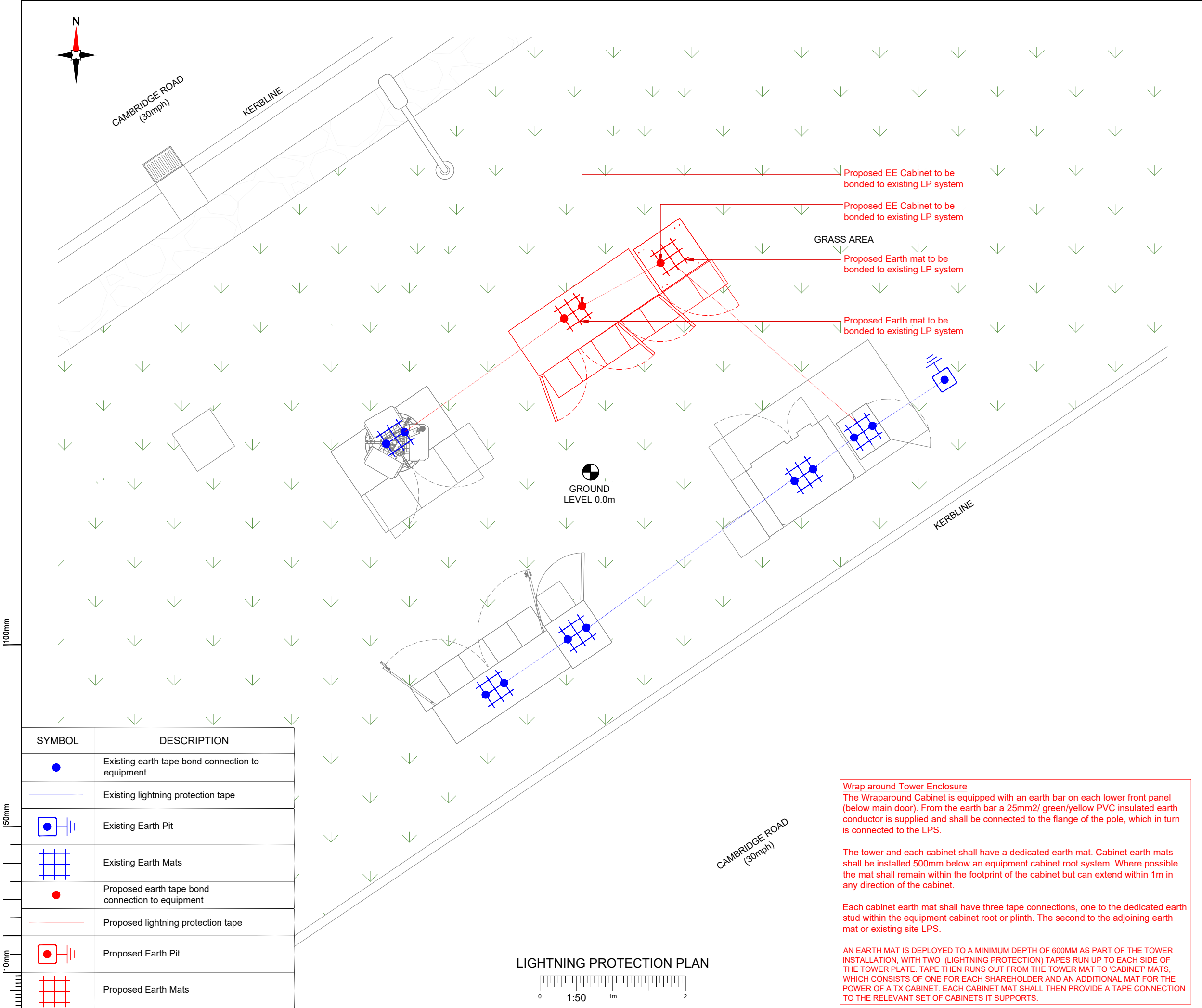
Master Drawing No:	Issue:
929270 NHE009 51014 SG0168 M001	A1

NOTES:
1. ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.



DC ELECTRICAL SCHEMATIC
N.T.S.

Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M001	MBNL	Vendor Swap	Detailed Design	A1
Date:	25/06/2024	Revision / Upgrade Description:		
Drawn:	KOK	Detailed Design		
Checked:	KS			
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			Tel: +44 (0)1908 377 766 Email: info@ktl.ie	
Site Name:				
CAMBRIDGE ROAD LAMP POST				
Site ID:				
929270				
Address:				
LAMPPOST 186 A505 CAMBRIDGE ROAD PURWELL HITCHIN HERTFORDSHIRE SG4 0JW				
Title:				
701 DC ELECTRICAL SCHEMATIC				
Project:				
VENDOR SWAP				
Purpose of Issue:				
DETAILED DESIGN				
EE Cell ID:		MBNL Cell ID:		3UK Cell ID:
51014		NHE009		SG0168
Master Drawing No:				Issue:
929270_NHE009_51014_SG0168_M001				A1



NOTE:
All Equipment/Cabinets to be bonded as per
manufacture installation guidelines, for more
information refer to TD & TDEE documentation

Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M001	MBNL	Vendor Swap	Detailed Design	A1
Date:	25/06/2024	Revision / Upgrade Description:		
Drawn:	KOK	Detailed Design		
Checked:	KS			
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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

Tel: +44 (0)1908 377 766
Email: info@ktl.ie

Site Name:
CAMBRIDGE ROAD LAMP POST

Site ID:
929270

Address:
LAMPPOST 186
A505 CAMBRIDGE ROAD
PURWELL
HITCHIN
HERTFORDSHIRE
SG4 0JW

Title:
705 LIGHTNING PROTECTION

Project:
VENDOR SWAP

Purpose of Issue:
DETAILED DESIGN

EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
51014	NHE009	SG0168

Master Drawing No:	Issue:
929270_NHE009_51014_SG0168_M001	A1



CAMBRIDGE ROAD
(30mph)

KERBLINE

STATUTORY NOTICE
REGARDING THE INSTALLATION OF ELECTRONIC COMMUNICATIONS APPARATUS
UNDER THE ELECTRONIC COMMUNICATIONS CODE

Paragraph 75(2) of Part 11 of Schedule 3A of the Communications Act 2003

1. This is a statutory notice pursuant to paragraph 75(2) of the electronic communications code, set out in Schedule 3A to the Communications Act 2003 (the "Code").
2. We, **EE Limited** (and **Hutchison 3G UK Limited**) have installed (or intend to install) electronic communications apparatus / electronic communications apparatus that is directly or indirectly connected to this piece of apparatus for the purposes of our network (the "Apparatus"). We are required to provide this notice because the Apparatus is at a height of three or more metres above the ground.

RIGHT TO OBJECT

3. You will have a right to object to the Apparatus under paragraph 77 of the Code if BOTH:
- a. you are an occupier of, or have an interest in, any land neighbouring the land on or over which the Apparatus is kept; AND
 - b. because of the nearness of that neighbouring land to the land on or over which the Apparatus is kept:
 - i. the enjoyment of that neighbouring land is capable of being prejudiced by the Apparatus; or
 - ii. any interest in that land is capable of being prejudiced by the Apparatus.
4. You will not however have a right to object, even if the criteria referred to at paragraph 3 above are satisfied, if the Apparatus:
- a. replaces any electronic communications apparatus which is not substantially different from the Apparatus; and
 - b. is not in a significantly different position.
5. If you have a right to object to the Apparatus, you may exercise that right by giving us notice of your objection under paragraph 78 of the Code. Any such notice should be provided in writing to:
- EE Limited (AND) Hutchison 3G UK Limited** (both) care of Mobile Broadband Network Limited, Sixth Floor, Thames Tower, Reading RG1 1LX.
6. Any notice of objection should be provided as soon as practicable. Please note that your right to object, and the procedure that applies to that right, will depend on whether you provide notice of your objection within 12 months of installation of the Apparatus, or after. The circumstances in which a court may uphold an objection are significantly more limited if the Apparatus has been installed for over 12 months.

(Insert date of Notice)

12345 Manor Court, KT13 8RF



Shrouded antennas or back to back antennas without shroud at minimum of 2 signs at 180 degrees and a maximum of three signs at approximately 120 degrees

Site Address: [12345] Manor Court, KT13 8RF
Hutchison 3g UK Ltd Freephone 08081214123



GROUND
LEVEL 0.0m

Site Address: [12345] Manor Court, KT13 8RF
EE Ltd Freephone 08081214123



Site Address: [12345] Manor Court, KT13 8RF
EE Ltd & Hutchison 3g UK Ltd Freephone 08081214123

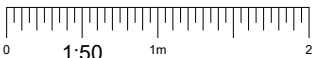


Site Address: [12345] Manor Court, KT13 8RF
EE Ltd & Hutchison 3g UK Ltd Freephone 08081214123



CAMBRIDGE ROAD
(30mph)

SIGNAGE PLAN



NOTES:

- ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH: TD40007

Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M001	MBNL	Vendor Swap	Detailed Design	A1
Date:	25/06/2024	Revision / Upgrade Description:		
Drawn:	KOK	Detailed Design		
Checked:	KS			
Approved:	KTL			



Hatfield Business Park
Hatfield
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AL10 9BW

Tel: 01707 315000
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Design & Principal Consultant:



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Tel: +44 (0)1908 377 766
Email: info@ktl.ie

Site Name:
CAMBRIDGE ROAD LAMP POST

Site ID:
929270

Address:
LAMPPOST 186
A505 CAMBRIDGE ROAD
PURWELL
HITCHIN
HERTFORDSHIRE
SG4 0JW

Title:
800 SIGNAGE PLAN

Project:
VENDOR SWAP

Purpose of Issue:
DETAILED DESIGN

EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
51014	NHE009	SG0168

Master Drawing No:
929270_NHE009_51014_SG0168_M001

Issue:
A1

5.5 Galvanized nuts and bolts to be used (U.N.O.).

v3.0