



7400 Cambridge Research Park
Beach Drive, Waterbeach
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CB25 9TN
Tel: 01223 792150
Fax: 01223 862752
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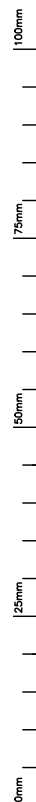
Site Name & Address:

KINETIC HOUSE
44 HATTON GARDEN
CLERKENWELL, CAMDEN
LONDON
EC1N 8ER

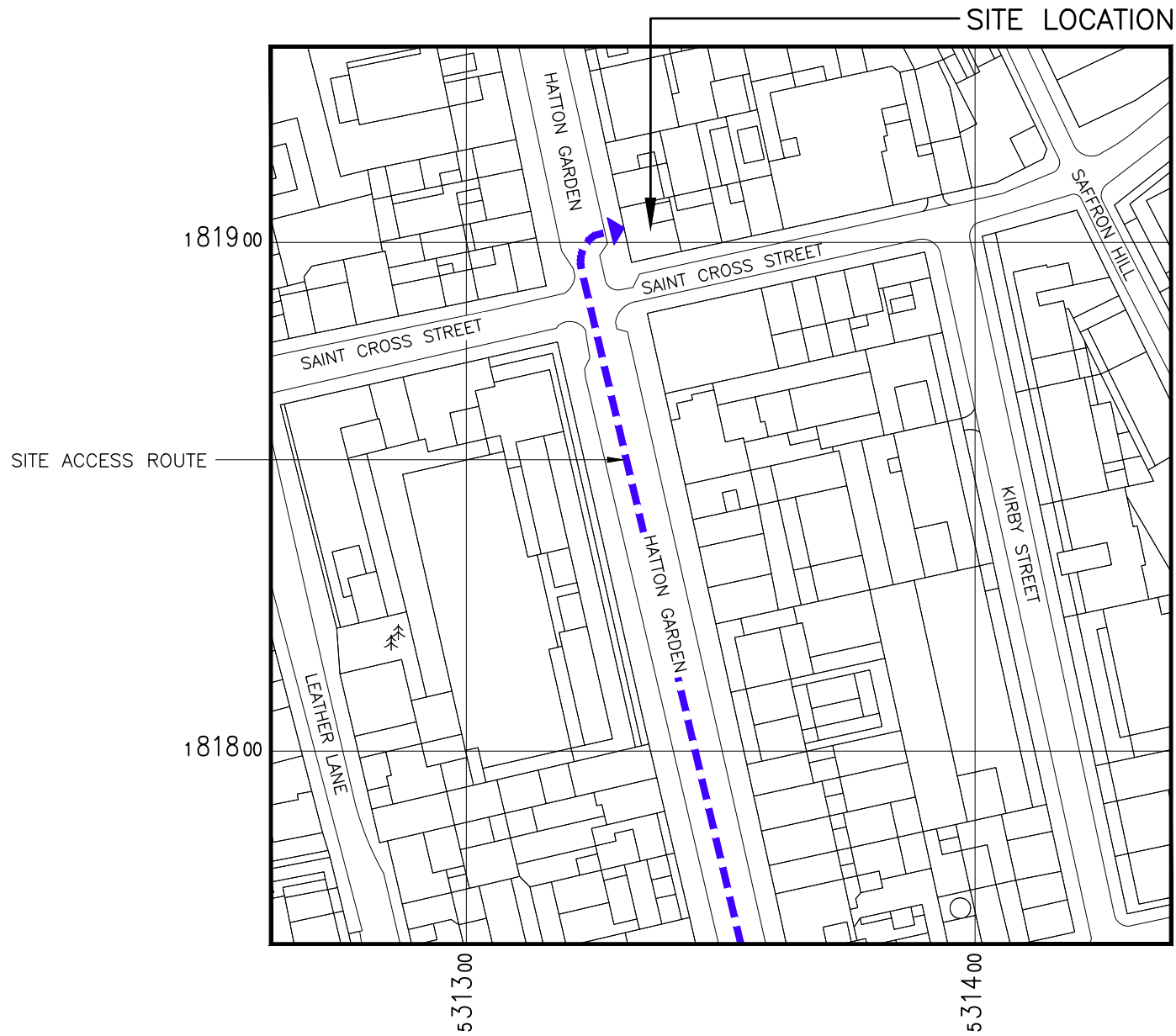
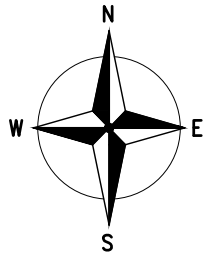
Cell No: 50014

Site No:	1434902
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MBNL No:	ISL148
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[illegible]

A3



DETAILED SITE LOCATION
(Scale 1:1250)

N.G.R. E: 531336, N: 181902
Based upon Ordnance Survey map extract
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- 1 ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE
- 2 DO NOT SCALE DRAWINGS
- 3 RED BOXED TEXT INDICATES PROPOSED WORKS
- 4 BLUE BOXED TEXT INDICATES PROPOSED H3G WORKS BY OTHERS
- 5 READ IN CONJUNCTION WITH CONSTRUCTION NOTES DRAWING

A1	Preliminary Issue For Comment	MRW	AJB	08.12.17
No.	Revision	By	Ckd	Date





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Drawing Title:

LOCATION PLAN

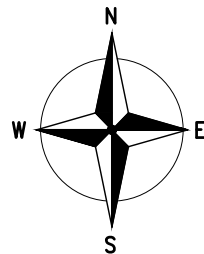
Purpose of Issue:

PLANNING

Drawing No:

ISL148 01

TM Cell ID:	50014	TM Site ID:	1434902	MBNL Cell ID:	ISL148
Scale:	As Shown	Drawn:	MRW	Date:	08.12.17
Checked:	AJB	Date:	08.12.17	Approved:	SDG
				Date:	08.12.17
					A1



EXISTING STEPOVER

EXISTING MBNL HUAWEI BTS3900A CABINETS (APM30HverD AND 1800 RFC IN STACKED ARRANGEMENT) ON SUPPORT PLATFORM. APM30HverD c/w 3No. 2.9kW RECTIFIERS. ADDITIONAL 1No. 2.9kW RECTIFIER TO BE INSTALLED

EXISTING MBNL ALIFABS Mk4 LINK AC CABINET ON FREESTANDING FRAME HOUSING TRANSMISSION EQUIPMENT, ELTEK PSU AND DISTRIBUTION BOARD. EXISTING 32A DOEPKE MCB IN DISTRIBUTION BOARD FOR APM30H TO BE REPLACED WITH A 50A DOEPKE MCB AND EXISTING 6mm² APM30H POWER CABLE UPGRADED TO A 10mm² POWER CABLE

EXISTING MBNL ICD FURO 42U FLAT PACK RACK ON SUPPORT PLATFORM HOUSING FLEXI MODULES AND Mk2 UCUs

EXISTING MBNL ICD SAMO 42U FLAT PACK RACK ON SUPPORT PLATFORM HOUSING 3No. H3G 800 AND 3No. H3G 1800 SAMSUNG RADIO MODULES AND AN ELTEK PSU. PROPOSED 3No. SAME BAND COMBINERS TO BE INSTALLED IN TOP OF SAMO CABINET

PROPOSED MBNL HUAWEI BTS3900A 800 RFC CABINET ON NEW PLINTH ON SUPPORT PLATFORM HOUSING PROPOSED 3No. HUAWEI 800 LRFUs

EXISTING MBNL 1800 ANTENNA MOUNTED ON SUPPORT POLE TO REMAIN

EXISTING MBNL 800/1800/2100 ANTENNA MOUNTED ON SUPPORT POLE TO BE RETAINED AND UTILISED FOR PROPOSED EE L800 UPGRADE

EXISTING STEPOVERS

EXISTING ROOFTOP ACCESS DOOR

DRIP LOOP: AS FEEDER CABLES APPROACH EQUIPMENT ENTRY POINTS THEY SHALL BE INSTALLED SO AS TO FALL AWAY FROM THE EQUIPMENT, PREVENTING WATER RUNNING ALONG THE FEEDER CABLES ONTO THE GLAND OR OPENING. IN ADDITION A CABLE TIE SHALL BE ADDED TO EACH FEEDER WITHIN 150MM OF THE CABLE ENTRY TO ACT AS A DRIP POINT.

NOTES:
FOR FULL EQUIPMENT DETAILS THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH DRAWING 04 (EQUIPMENT DETAILS)

ALL PROPOSED EQUIPMENT AND STEELWORK TO BE BONDED TO EXISTING LIGHTNING PROTECTION SYSTEM

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DEPENDENCIES:

ASBESTOS	Report Required- Requested
BUILDING REGULATIONS	N/A
FIXIT FORM	N/A
GLOBAL DESIGN CHECK	N/A
ICNIRP CONFORMITY	Complies to GSD008 Without Control
UNDERGROUND SERVICES SEARCHES	N/A
STRUCTURAL CHECK	N/A
H3G L800 BUILD COMPLETE	YES - EE L800 BUILD CAN PROCEED

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EC1N 8ER

Drawing Title: SITE PLAN

Purpose of Issue: PLANNING

Drawing No: ISL148 02

TM Cell ID: 50014	TM Site ID: 1434902	MBNL Cell ID: ISL148
Scale: As Shown	Drawn: MRW	Date: 08.12.17
Checked: AJB	Date: 08.12.17	Approved: SDG
		Date: 08.12.17
		Issue: A1

SITE PLAN
(SCALE: 1:100)

EXISTING MBNL ICD SAMO 42U FLAT PACK RACK ON SUPPORT PLATFORM HOUSING 3No. H3G 800 AND 3No. H3G 1800 SAMSUNG RADIO MODULES AND AN ELTEK PSU. PROPOSED 3No. SAME BAND COMBINERS TO BE INSTALLED IN TOP OF SAMO CABINET

EXISTING MBNL HUAWEI BTS3900A CABINETS (APM30HverD AND 1800 RFC IN STACKED ARRANGEMENT) ON SUPPORT PLATFORM. APM30HverD c/w 3No. 2.9kW RECTIFIERS. ADDITIONAL 1No. 2.9kW RECTIFIER TO BE INSTALLED

EXISTING MBNL 800/1800/2100 ANTENNA MOUNTED ON SUPPORT POLE TO BE RETAINED AND UTILISED FOR PROPOSED EE L800 UPGRADE

PROPOSED MBNL HUAWEI BTS3900A 800 RFC CABINET ON NEW PLINTH ON SUPPORT PLATFORM HOUSING PROPOSED 3No. HUAWEI 800 LRFUs

TOP OF SECTOR 3 ANTENNAS 25.44m AGL

C/L OF SECTOR 3 ANTENNAS 24.44m AGL

U/S OF SECTOR 3 ANTENNAS 23.44m AGL

EXISTING MBNL 300Ø TRANSMISSION DISH MOUNTED ON SUPPORT POLE

EXISTING MBNL 800/1800/2100 ANTENNA MOUNTED ON SUPPORT POLE TO BE RETAINED AND UTILISED FOR PROPOSED EE L800 UPGRADE

EXISTING MBNL 1800 ANTENNA MOUNTED ON SUPPORT POLE TO REMAIN

UPPER ROOF LEVEL 25.1m AGL

TOP OF ANTENNAS 25.76m AGL

C/L OF ANTENNAS 24.76m AGL

U/S OF ANTENNAS 23.76m AGL

MAIN ROOF LEVEL 22.5m AGL

EXISTING MBNL 1800 ANTENNA ON GRILLAGE MOUNTED SUPPORT POLE TO REMAIN

00.0m GROUND LEVEL

SOUTH EAST ELEVATION
(SCALE: 1:200)

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No.	Revision	By	Ckd	Date





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Drawing Title:

SOUTH EAST ELEVATION

Purpose of Issue:

PLANNING

Drawing No:

ISL148 03

TM Cell ID:	TM Site ID:	MBNL Cell ID:
50014	1434902	ISL148

Scale:	As Shown	Drawn:	MRW	Date:	08.12.17	Issue:	
Checked:	AJB	Date:	08.12.17	Approved:	SDG	Date:	08.12.17
							A1

100mm
75mm
50mm
25mm
10mm

EXISTING CABINET DETAILS

NUMBER: 1No.
MANUFACTURER: HUAWEI
TYPE/REF: BTS3900A CABINET (APM30HverD)
LOCATION: OUTDOOR
DIMENSIONS: 600x480x700 HIGH
MATERIAL: STEEL
COLOUR: GREY (RAL 7035)
STATUS: RETAIN
COMMENTS: STACKED ON TOP OF 1800 RFC
CABINET C/W 3No. 2.9kW RECTIFIERS

ADDITIONAL 1No. 2.9kW RECTIFIER TO BE
INSTALLED

NUMBER: 1No.
MANUFACTURER: HUAWEI
TYPE/REF: BTS3900A CABINET (1800 RFC)
LOCATION: OUTDOOR
DIMENSIONS: 600x480x700 HIGH
MATERIAL: STEEL
COLOUR: GREY (RAL 7035)
STATUS: RETAIN
COMMENTS: ON PLINTH HOUSING 1800 MRFUs

NUMBER: 1No.
MANUFACTURER: ICD
TYPE/REF: FURO 42U FLAT PACK RACK
LOCATION: OUTDOOR
DIMENSIONS: 750x600x2100 HIGH
MATERIAL: STEEL
COLOUR: A05 GOOSE GREY
STATUS: RETAIN
COMMENTS: HOUSING FLEXI MODULES AND Mk2
UCUs

NUMBER: 1No.
MANUFACTURER: SAMSUNG
TYPE/REF: SAMO 42U FLAT PACK RACK
LOCATION: OUTDOOR
DIMENSIONS: 750x600x2100 HIGH
MATERIAL: STEEL
COLOUR: A05 GOOSE GREY
STATUS: RETAIN
COMMENTS: HOUSING 3No. H3G 800 AND 3No.
H3G 1800 SAMSUNG RADIO MODULES AND AN
ELTEK PSU

NUMBER: 1No.
MANUFACTURER: ALIFABS
TYPE/REF: Mk4 LINK/AC CABINET
LOCATION: OUTDOOR
DIMENSIONS: 600x500x1520 HIGH
MATERIAL: STEEL
COLOUR: GREY
STATUS: RETAIN
COMMENTS: HOUSING TRANSMISSION EQUIPMENT,
ELTEK PSU AND DISTRIBUTION BOARD

PROPOSED CABINET DETAILS

NUMBER: 1No.
MANUFACTURER: HUAWEI
TYPE/REF: BTS3900A CABINET (800 RFC)
LOCATION: OUTDOOR
DIMENSIONS: 600x480x700 HIGH
MATERIAL: STEEL
COLOUR: GREY (RAL 7035)
STATUS: PROPOSED
COMMENTS: ON NEW PLINTH HOUSING PROPOSED
800 LRFUs

NUMBER: 1No.
MANUFACTURER: HUAWEI
TYPE/REF: 3900A PLINTH Mk2
LOCATION: OUTDOOR
DIMENSIONS: 640x432x200 HIGH
MATERIAL: STEEL
COLOUR: GREY (RAL 7035)
STATUS: PROPOSED
COMMENTS:

PROPOSED EQUIPMENT DETAILS

NUMBER: 3No.
MANUFACTURER: RADIO DESIGN
TYPE/REF: SAME BAND COMBINER
LOCATION: SAMSUNG SAMO CABINET
DIMENSIONS: N/A
COLOUR: GREY
STATUS: PROPOSED
COMMENTS: TO BE INSTALLED IN TOP OF
EXISTING SAMO CABINET

NUMBER: 3No.
MANUFACTURER: HUAWEI
TYPE/REF: 800 LRFU
LOCATION: 800 RFC CABINET
DIMENSIONS: N/A
COLOUR: GREY
STATUS: PROPOSED
COMMENTS: TO BE INSTALLED IN PROPOSED 800
RFC CABINET

EQUIPMENT DETAILS
(NOT TO SCALE)

- 1 ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE
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WORKS BY OTHERS
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STATUS KEY:
RETAIN: EXISTING AND TO REMAIN
RELOCATE: EXISTING AND TO BE RELOCATED
PROPOSED: NEW ON SITE
REMOVE: TO BE REMOVED FROM SITE

LOCATION KEY:
OUTDOOR: LOCATED OUTSIDE
INDOOR: LOCATED WITHIN AN EQUIPMENT
CABIN OR EQUIPMENT ROOM
INTERNAL: LOCATED INSIDE A CABINET OR
ITEM OF EQUIPMENT

A1	Preliminary Issue For Comment	MRW	AJB	08.12.17
No.	Revision	By	Ckd	Date





Infrastructure Services Ltd

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KINETIC HOUSE
44 HATTON GARDEN
CLERKENWELL, CAMDEN
LONDON
EC1N 8ER

Drawing Title:

EQUIPMENT DETAILS

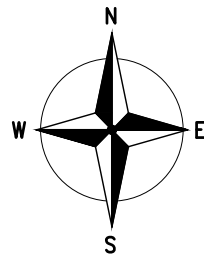
Purpose of Issue:

PLANNING

Drawing No:

ISL148 04

TM Cell ID:	TM Site ID:	MBNL Cell ID:		
50014	1434902	ISL148		
Scale:	As Shown	Drawn:	Date:	Issue:
		MRW	08.12.17	
Checked:	Date:	Approved:	Date:	A1
AJB	08.12.17	SDG	08.12.17	



EXISTING MBNL ALIFABS Mk4 LINK AC CABINET ON FREESTANDING FRAME HOUSING TRANSMISSION EQUIPMENT, ELTEK PSU AND DISTRIBUTION BOARD.
EXISTING 32A DOEPKE MCB IN DISTRIBUTION BOARD FOR APM30H TO BE REPLACED WITH A 50A DOEPKE MCB AND EXISTING 6mm² APM30H POWER CABLE UPGRADED TO A 10mm² POWER CABLE

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PROPOSED MBNL HUAWEI BTS3900A 800 RFC CABINET ON NEW PLINTH ON SUPPORT PLATFORM HOUSING PROPOSED 3No. HUAWEI 800 LRFUs

PROPOSED 6No. MBNL 4-50 800 FEEDER TAILS TO BE INSTALLED FROM MAIN 800 FEEDER JOINTS IN CABLE TRAY UNDERNEATH SAMO CABINET TO PROPOSED SAME BAND COMBINERS (3m LONG)

PROPOSED 6No. EE 4-50 6m LONG L800 BTS TAILS TO BE INSTALLED FROM 800 LRFUs TO SAME BAND COMBINERS. EXISTING L800 BIAS-Ts TO BE REMOVED AND MAIN 800 FEEDERS CONNECTED TO SAME BAND COMBINERS

UPPER ROOF LEVEL
+25.10m AGL

MAIN ROOF LEVEL
+22.50m AGL

GROUND LEVEL
0.00m AGL

EQUIPMENT LAYOUT

(SCALE: 1:50)

- 1 ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE
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- 3 **RED BOXED TEXT INDICATES PROPOSED WORKS**
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No.	Revision	By	Ckd	Date
A1	Preliminary Issue For Comment	MRW	AJB	08.12.17





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Site Name & Address:

KINETIC HOUSE
44 HATTON GARDEN
CLERKENWELL, CAMDEN
LONDON
EC1N 8ER

Drawing Title:

EQUIPMENT LAYOUT

Purpose of Issue:

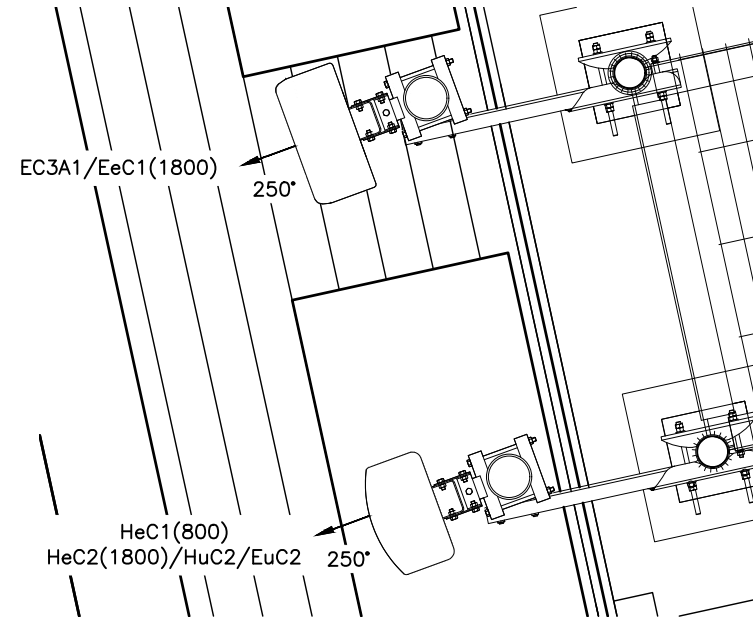
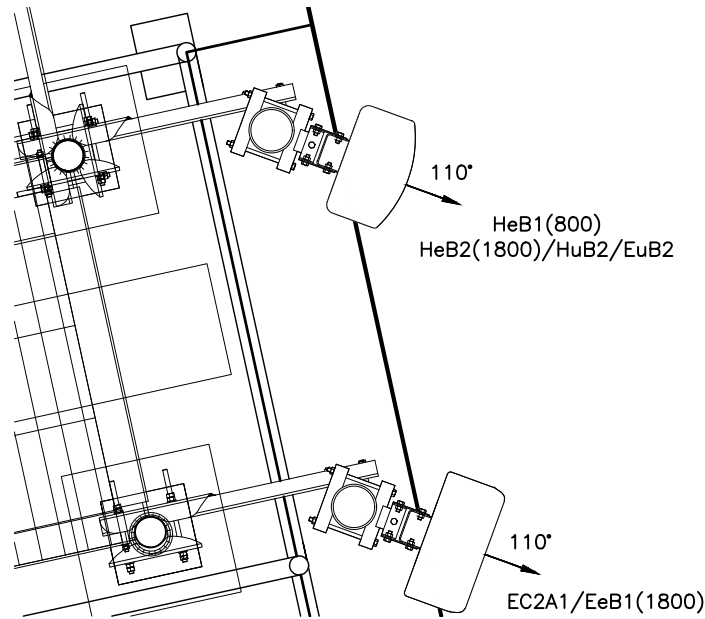
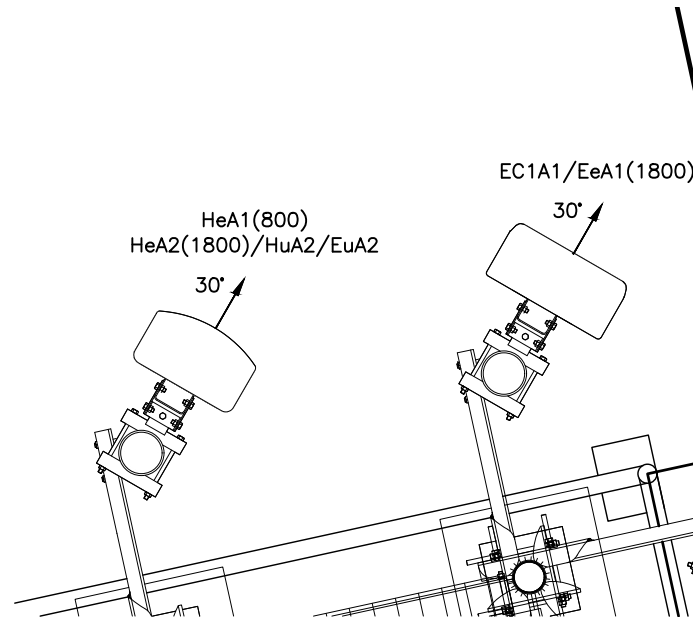
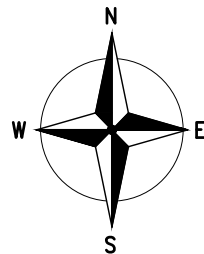
PLANNING

Drawing No:

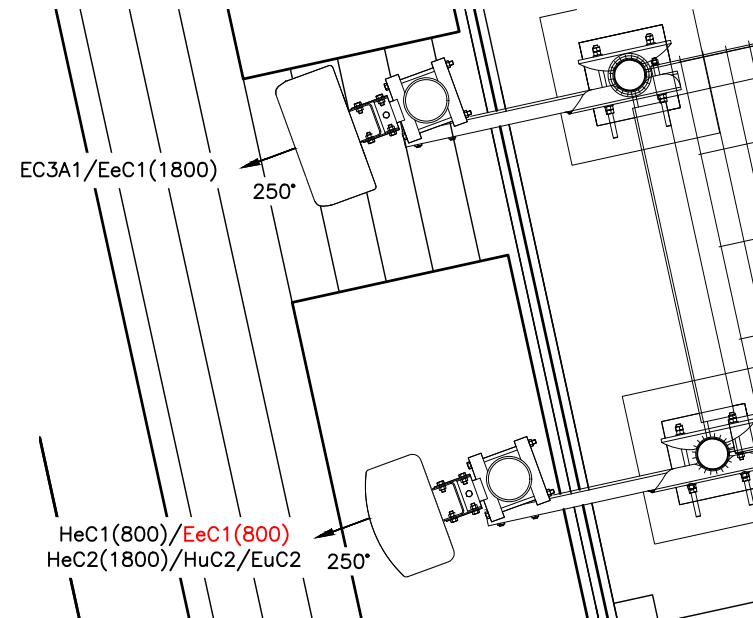
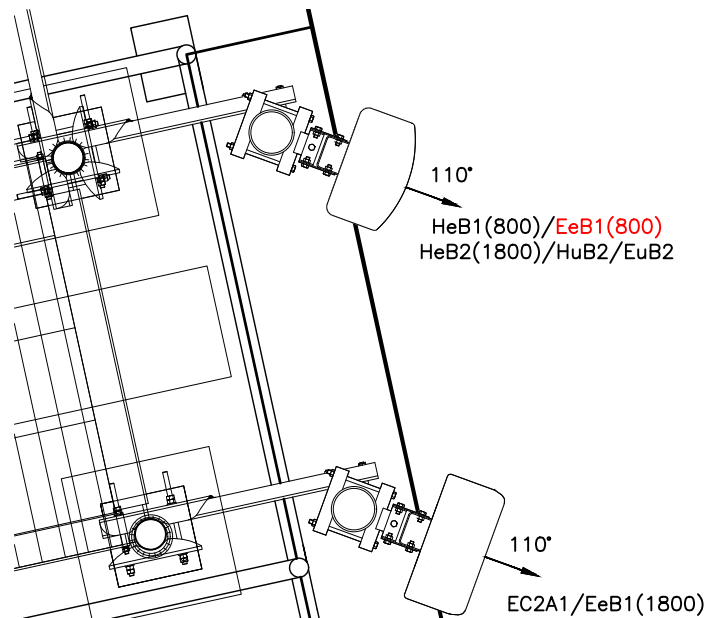
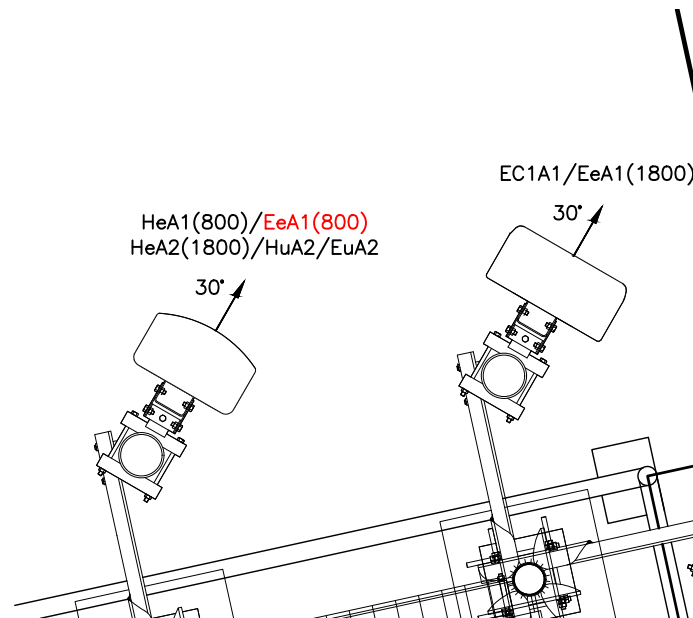
ISL148 05

TM Cell ID:	TM Site ID:	MBNL Cell ID:
50014	1434902	ISL148

Scale:	As Shown	Drawn:	MRW	Date:	08.12.17	Issue:	
Checked:	AJB	Date:	08.12.17	Approved:	SDG	Date:	08.12.17
							A1



EXISTING ANTENNA DETAILS
(SCALE: 1:20)



PROPOSED ANTENNA DETAILS
(SCALE: 1:20)

- 1 ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE
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A1	Preliminary Issue For Comment	MRW	AJB	08.12.17
No.	Revision	By	Ckd	Date



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Drawing Title:
ANTENNA LAYOUT

Purpose of Issue:
PLANNING

Drawing No:
ISL148 06

TM Cell ID: 50014	TM Site ID: 1434902	MBNL Cell ID: ISL148
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Scale: As Shown	Drawn: MRW	Date: 08.12.17	Issue: A1
Checked: AJB	Date: 08.12.17	Approved: SDG	Date: 08.12.17

PRE-UPGRADE ANTENNA LINE KEY												
Sector	Antenna Type	Antenna C/L(m)	Antenna Length (m)	Bearing EGN	Mechanical Tilt (+ve downtilt/-ve uptilt	Manufacturer's Port Frequency Range	Operating Frequency	RFU/RRH	MHA Name	Main Feeder No, Size & Length	MHA Tail No, Size & Length	Estimated Total Loss dB
1	1007359 HUAWEI AQU4518R0	24.76m	1.999m	30°	AS PER RDS	2490-2690	SPARE	-	-	-	-	-
						1710-2690	SPARE	-	-	-	-	-
						1710-2170	1800	RFU	COMMSCOPE E15S09P75	2No. 5-50 22m	2No. 4-50 2m	EX
						790-960	SPARE	-	-	-	-	-
2	1007359 HUAWEI AQU4518R0	24.76m	1.999m	110°	AS PER RDS	2490-2690	SPARE	-	-	-	-	-
						1710-2690	SPARE	-	-	-	-	-
						1710-2170	1800	RFU	COMMSCOPE E15S09P75	2No. 5-50 22m	2No. 4-50 2m	EX
						790-960	SPARE	-	-	-	-	-
3	1007359 HUAWEI AQU4518R0	24.44m	1.999m	250°	AS PER RDS	2490-2690	SPARE	-	-	-	-	-
						1710-2690	SPARE	-	-	-	-	-
						1710-2170	1800	RFU	COMMSCOPE E15S09P75	2No. 5-50 8m	2No. 4-50 2m	EX
						790-960	SPARE	-	-	-	-	-
1	1007431 COMMSCOPE CV65BSX-2x2	24.76m	1.974m	30°	AS PER RDS	790-960	800	RFU	COMMSCOPE E15R02P11	2No. 5-50 24m	2No. 4-50 2m	1.60
						1710-2690	1800/2100	RFU	RD0448	2No. 5-50 25m	2No. 4-50 2m	EX
2	1007431 COMMSCOPE CV65BSX-2x2	24.76m	1.974m	110°	AS PER RDS	790-960	800	RFU	COMMSCOPE E15R02P11	2No. 5-50 25m	2No. 4-50 2m	1.64
						1710-2690	1800/2100	RFU	RD0448	2No. 5-50 27m	2No. 4-50 2m	EX
3	1007431 COMMSCOPE CV65BSX-2x2	24.44m	1.974m	250°	AS PER RDS	790-960	800	RFU	COMMSCOPE E15R02P11	2No. 5-50 10m	2No. 4-50 2m	1.09
						1710-2690	1800/2100	RFU	RD0448	2No. 5-50 11m	2No. 4-50 2m	EX

EXISTING DISH KEY						
STATUS	OPERATOR	DISH REF	DISH DIA	BEARING	HEIGHT TO Cntr.(AGL)	LINK No.
EXISTING	MBNL	D1	ø300	10.08°	25.17m	ML109238

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No.	Revision		By	Ckd
				Date





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Site Name & Address:

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Drawing Title:

PRE-UPGRADE ANTENNA LINE KEY

Purpose of Issue:

PLANNING

Drawing No:

ISL148 07

TM Cell ID:	TM Site ID:	MBNL Cell ID:
50014	1434902	ISL148

Scale:	As Shown	Drawn:	MRW	Date:	08.12.17	Issue:	A1
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POST-UPGRADE ANTENNA LINE KEY

Sector	Antenna Type	Antenna C/L(m)	Antenna Length (m)	Bearing EGN	Mechanical Tilt (+ve downtilt/-ve uptilt	Manufacturer's Port Frequency Range	Operating Frequency	RFU/RRH	MHA Name	Main Feeder No, Size & Length	MHA Tail No, Size & Length	EE L800 BTS Tails No., Size & Length	Estimated Total Loss dB
1	1007359 HUAWEI AQU4518R0	24.76m	1.999m	30°	AS PER RDS	2490-2690	SPARE	-	-	-	-	-	-
						1710-2690	SPARE	-	-	-	-	-	-
						1710-2170	1800	RFU	COMMSCOPE E15S09P75	2No. 5-50 22m	2No. 4-50 2m	-	EX
						790-960	SPARE	-	-	-	-	-	-
2	1007359 HUAWEI AQU4518R0	24.76m	1.999m	110°	AS PER RDS	2490-2690	SPARE	-	-	-	-	-	-
						1710-2690	SPARE	-	-	-	-	-	-
						1710-2170	1800	RFU	COMMSCOPE E15S09P75	2No. 5-50 22m	2No. 4-50 2m	-	EX
						790-960	SPARE	-	-	-	-	-	-
3	1007359 HUAWEI AQU4518R0	24.44m	1.999m	250°	AS PER RDS	2490-2690	SPARE	-	-	-	-	-	-
						1710-2690	SPARE	-	-	-	-	-	-
						1710-2170	1800	RFU	COMMSCOPE E15S09P75	2No. 5-50 8m	2No. 4-50 2m	-	EX
						790-960	SPARE	-	-	-	-	-	-
1	1007431 COMMSCOPE CV65BSX-2x2	24.76m	1.974m	30°	AS PER RDS	790-960	800	RFU	COMMSCOPE E15R02P11	2No. 5-50 24m	2No. 4-50 2m	2No. 4-50 6m	2.49
						1710-2690	1800/2100	RFU	RD0448	2No. 5-50 25m	2No. 4-50 2m	-	EX
2	1007431 COMMSCOPE CV65BSX-2x2	24.76m	1.974m	110°	AS PER RDS	790-960	800	RFU	COMMSCOPE E15R02P11	2No. 5-50 25m	2No. 4-50 2m	2No. 4-50 6m	2.52
						1710-2690	1800/2100	RFU	RD0448	2No. 5-50 27m	2No. 4-50 2m	-	EX
3	1007431 COMMSCOPE CV65BSX-2x2	24.44m	1.974m	250°	AS PER RDS	790-960	800	RFU	COMMSCOPE E15R02P11	2No. 5-50 10m	2No. 4-50 2m	2No. 4-50 6m	1.98
						1710-2690	1800/2100	RFU	RD0448	2No. 5-50 11m	2No. 4-50 2m	-	EX

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- 4 BLUE BOXED TEXT INDICATES PROPOSED H3G WORKS BY OTHERS
- 5 READ IN CONJUNCTION WITH CONSTRUCTION NOTES DRAWING

A1	Preliminary Issue For Comment			MRW	AJB
No.	Revision			By	Ckd





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Site Name & Address:

KINETIC HOUSE
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CLERKENWELL, CAMDEN
LONDON
EC1N 8ER

Drawing Title:

POST-UPGRADE ANTENNA LINE KEY

Purpose of Issue:

PLANNING

Drawing No:

ISL148 08

TM Cell ID:	TM Site ID:	MBNL Cell ID:
50014	1434902	ISL148

Scale:	As Shown	Drawn:	MRW	Date:	08.12.17	Issue:	A1
Checked:	AJB	Date:	08.12.17	Approved:	SDG		



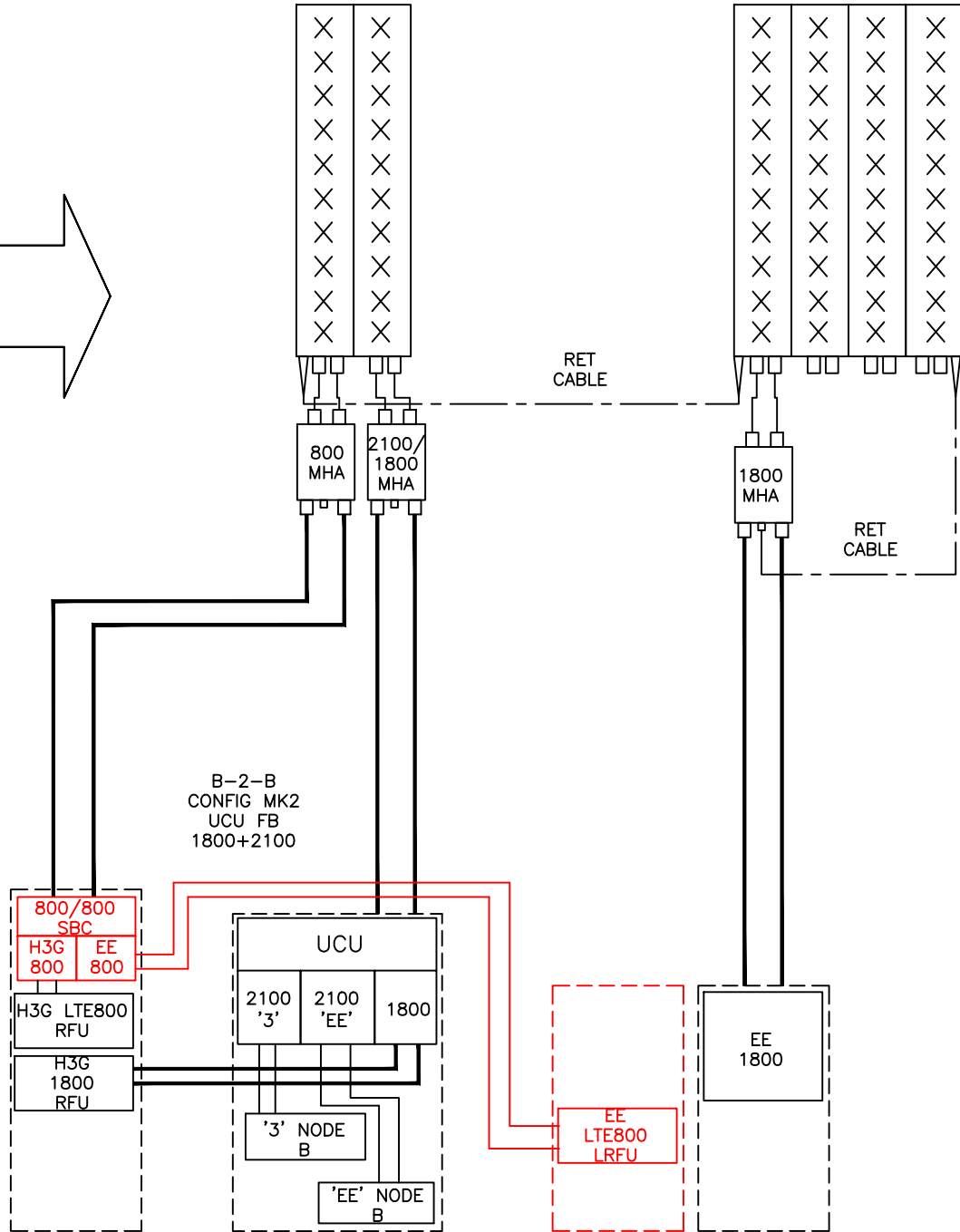
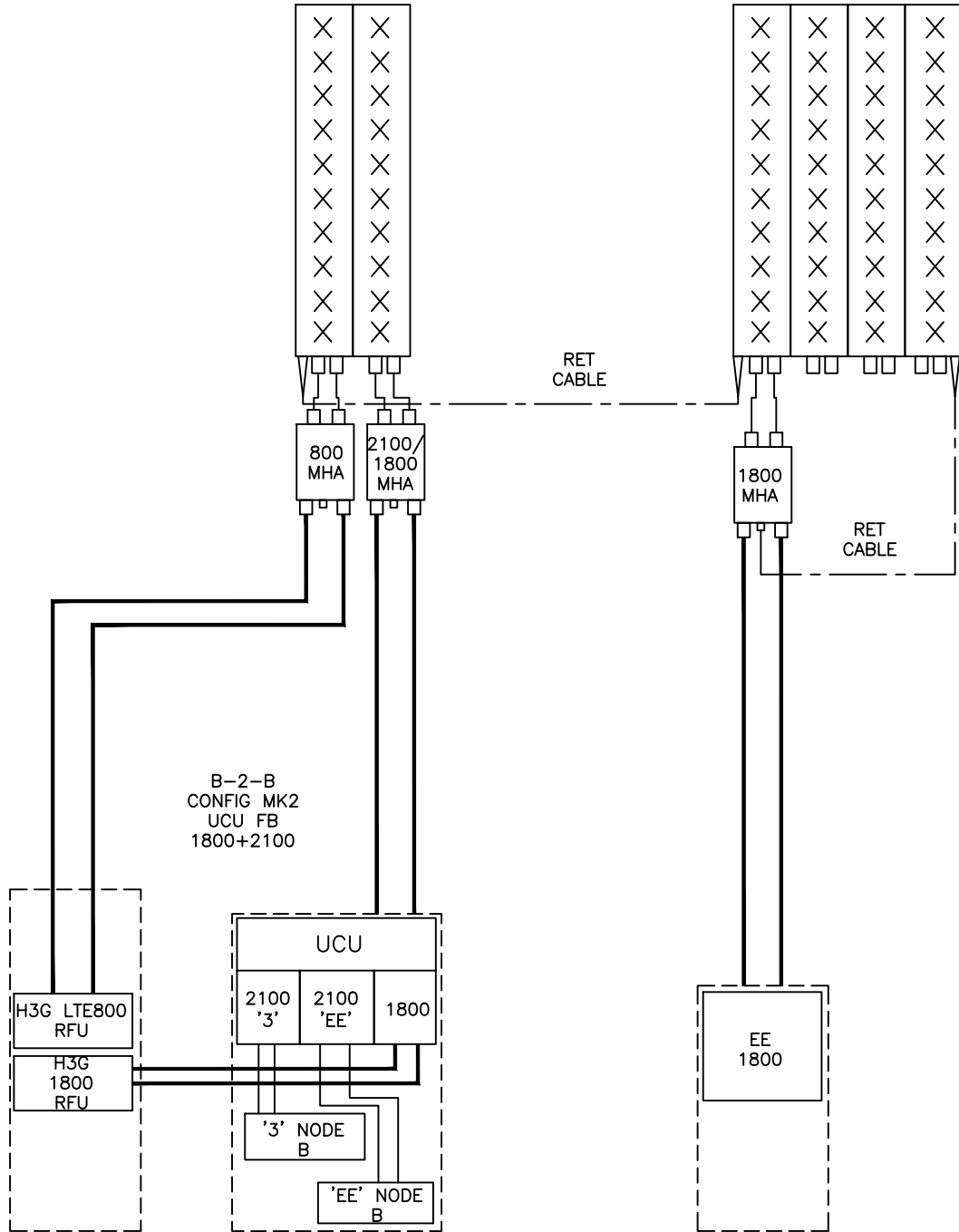
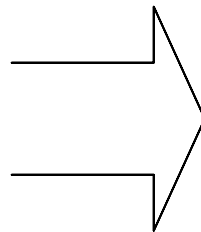
100mm
75mm
50mm
25mm
10mm

EXISTING
(4 PORT) ANTENNA
65°/65° BW
800/17-26

EXISTING
(8 PORT) ANTENNA
65°/65°/65° BW
800/17-22/17-26/26

EXISTING
(4 PORT) ANTENNA
65°/65° BW
800/17-26

EXISTING
(8 PORT) ANTENNA
65°/65°/65° BW
800/17-22/17-26/26



ANTENNA SCHEMATIC
(NOT TO SCALE)

- 1 ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE
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NOTES:

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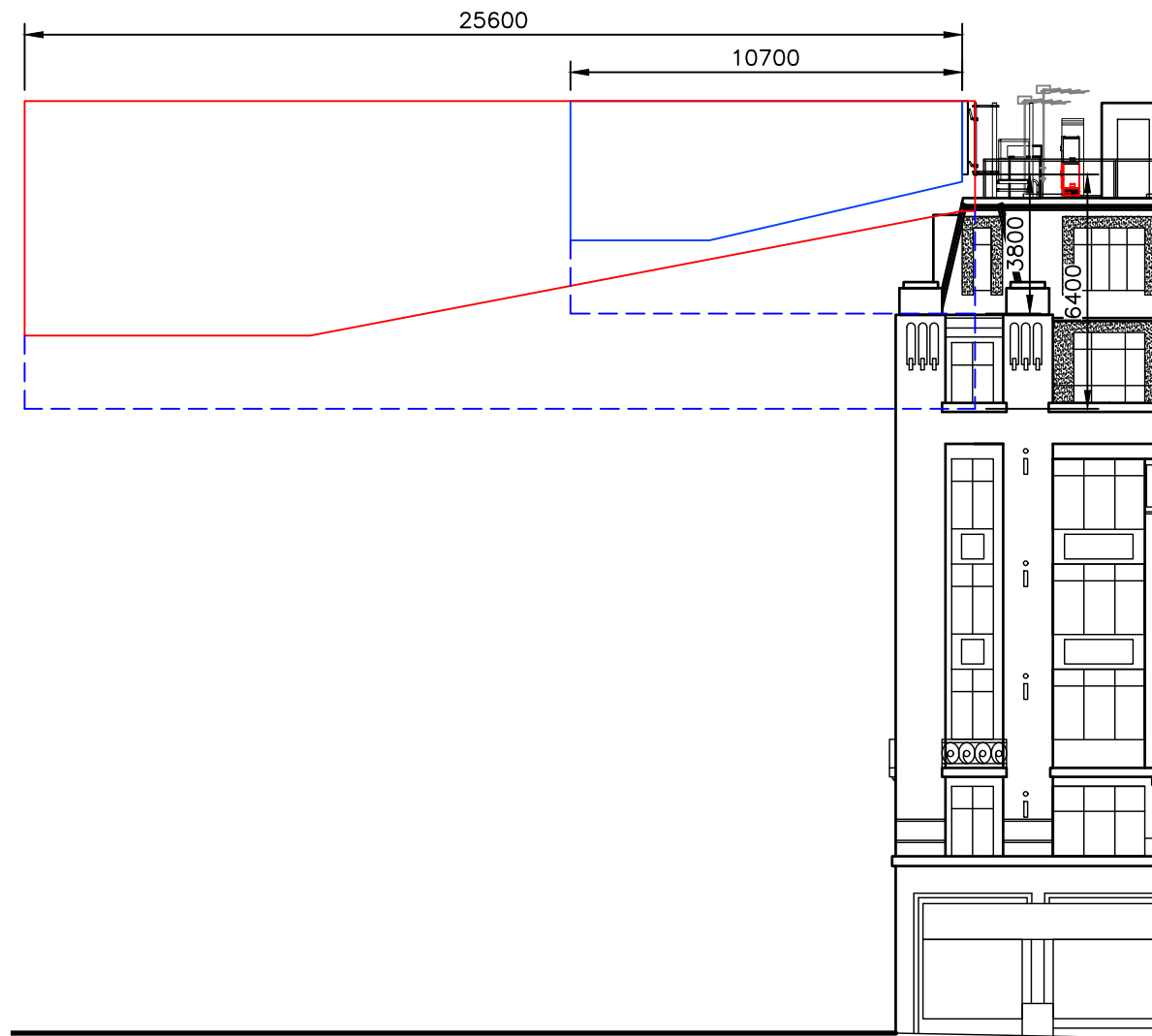
Drawing Title: ANTENNA SCHEMATIC

Purpose of Issue: PLANNING

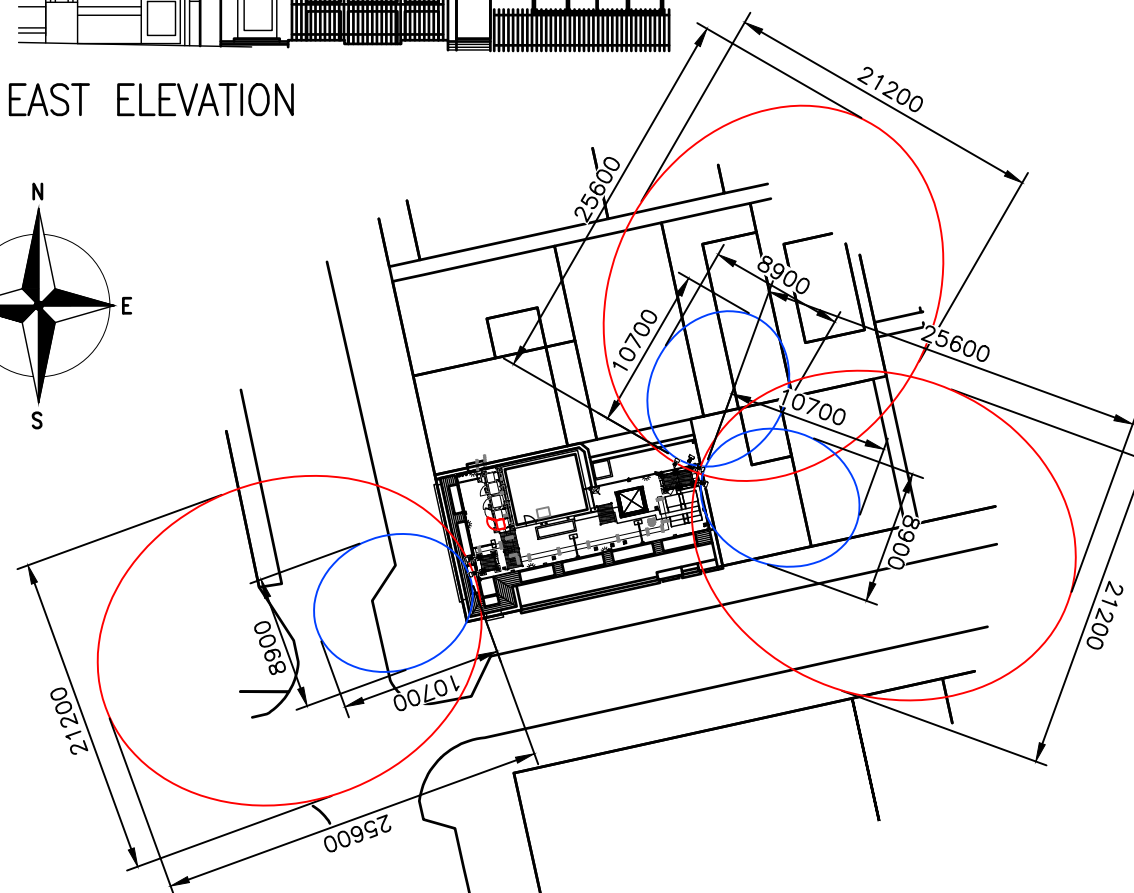
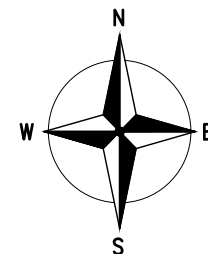
Drawing No: ISL148 09

TM Cell ID: 50014	TM Site ID: 1434902	MBNL Cell ID: ISL148
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Scale: As Shown	Drawn: MRW	Date: 08.12.17	Issue: A1
Checked: AJB	Date: 08.12.17	Approved: SDG	Date: 08.12.17



ICNIRP EXCLUSION ZONE SOUTH EAST ELEVATION
(SCALE: 1:200)



ICNIRP EXCLUSION ZONE PLAN
(SCALE: 1:500)

MULTI OPERATOR CALCULATOR

	800MHz	1800MHz	2100MHz	2600MHz	Any 85/115 Antennas? 85/65	Tilt restriction applied? 6/10	
Watts	80	320	220	80	65	None/10	
	PUBLIC WIDTH	PUBLIC LENGTH	PUBLIC REAR	PUBLIC H1	PUBLIC H2	PUBLIC H2L	BUILD HEIGHT
	21.20	25.60	0.30	1.00	4.4	17.8	6.4/8.4
	OCCUP. WIDTH	OCCUP. LENGTH		OCCUP. H1	OCCUP. H2	OCCUP. H2L	BUILD HEIGHT
	8.90	10.70	—	0.20	1.80	6.9	3.8/5.8

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NOTES:
ICNIRP EXCLUSION ZONES ARE BASED ON
VALUES WITHIN THE MBNL ICNIRP COMPLIANCE
CERTIFICATION DOCUMENT GSDD008 VERSION 7.0
(28/04/16)

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Drawing Title:
ICNIRP EXCLUSION ZONES

Purpose of Issue:
PLANNING

Drawing No:
ISL148 10

TM Cell ID: 50014	TM Site ID: 1434902	MBNL Cell ID: ISL148
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Scale: As Shown	Drawn: MRW	Date: 08.12.17	Issue: A1
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GENERAL NOTES

- 1.1

DO NOT SCALE ANY DRAWING WITHIN THIS SERIES.
- 1.2

ALL DIMENSIONS ARE IN MM UNLESS STATED OTHERWISE.
- 1.3

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS WITHIN THIS SERIES.
- 1.4

ALL BRITISH STANDARDS REFERENCED ON THIS DRAWING ARE TO BE TO THE CURRENT REVISION.
- 1.5

ALL ASPECTS OF THE WORKS TO BE IN ACCORDANCE WITH THE LATEST OPERATORS DESIGN / INSTALLATION SPECIFICATIONS.
- 1.6

ALL DIMENSIONS SHOWN ON THE SCHEME DRAWINGS TO EXISTING STRUCTURES ARE APPROXIMATE AND THE CONTRACTOR IS TO OBTAIN ALL EXACT SITE DIMENSIONS NECESSARY TO CARRY OUT PROPOSED WORKS.
- 1.7

ALL SPECIALIST ITEMS TO BE USED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- 1.8

THE CONTRACTOR SHALL SUBMIT HIS PROPOSALS FOR THE TEMPORARY SUPPORTS AND METHOD STATEMENT SHOWING THE SEQUENCE OF CONSTRUCTION OF THE WORKS TO THE EMPLOYER FOR COMMENT BEFORE COMMENCEMENT OF THE WORKS.
- 1.9

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT SUFFICIENT TOLERANCES ARE PROVIDED AND INTEGRATED THROUGHOUT ALL ELEMENTS OF THE WORKS. THE CONTRACTOR IS TO TAKE ACCOUNT OF TOLERANCES DETAILED ELSEWHERE WHEN COMPLYING WITH THIS CLAUSE.
- 1.10

THE CONTRACTOR SHALL PROVIDE TEMPORARY PROTECTION TO PREVENT WATER PENETRATION INTO EXISTING BUILDINGS DURING.
- 1.11

THE CONTRACTOR IS ENTIRELY RESPONSIBLE FOR MAINTAINING THE STABILITY OF ALL EXISTING BUILDINGS AND STRUCTURES WITHIN AND ADJACENT TO THE WORKS. THIS INCLUDES, ALL OF THE WORKS FROM THE DATE OF THE POSSESSION OF THE SITE UNTIL PRACTICAL COMPLETION OF THE WORKS. THE CONTRACTOR SHALL DESIGN, INSTALL AND MAINTAIN ALL NECESSARY TEMPORARY WORKS TO COMPLY WITH THE ABOVE.
- 1.12

ALL DETAILS OF EXISTING CONSTRUCTION TO BE CONFIRMED ON SITE. ANY DISCREPANCIES BETWEEN SITE SPECIFIC DESIGN DRAWINGS AND CONTRACTORS FINDINGS ARE TO BE REPORTED TO THE ENGINEER IMMEDIATELY.
- 1.13

REMEDIAL WALL TIES TO HAVE RESIN/RESIN FIXINGS TYPE HW BY HILTI OR SIMILAR APPROVED ALTERNATIVE.

STRUCTURAL STEELWORK

- 2.1

STRUCTURAL STEEL TO BE GRADE S275 MILD STEEL TO BS EN10025.
- 2.2

ALL WELDS TO BE MINIMUM 6MM FILLET WELD UNLESS NOTED OTHERWISE. WELDS AT TUBE TO TUBE CONNECTIONS TO BE FULL PENETRATION BUTT WELDS.
- 2.3

BOLTS TO BE GRADE 8.8 TO BS 4190, MINIMUM SIZE 16MM DIA. (UNLESS STATED OTHERWISE) EXCEPT FOR STUB TOWERS WHERE BOLTS ARE TO BE HSFG MINIMUM 20MM DIA. WITH LOAD INDICATOR WASHERS, TIGHTENED IN ACCORDANCE WITH THE SUPPLIERS RECOMMENDATIONS (UNLESS STATED OTHERWISE). BEARING SURFACES TO BE CLEAN GALVANISED.
- 2.4

ALL STEELWORK INCLUDING BOLTS TO BE GALVANISED TO BS 729.
- 2.5

ALL GALVANISING DRAIN HOLES FOR RHS/CHS IF VISIBLE WHEN ERECTED ARE TO BE PLUGGED. DETAIL TO BE PROVIDED BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER. ENDS OF ALL HOLLOW SECTIONS TO BE SEALED.
- 2.6

FABRICATION DRAWINGS BASED ON SITE DIMENSIONS ARE TO BE PREPARED BY THE CONTRACTOR FOR ALL STEELWORK AND THESE ARE TO BE SUBMITTED TO THE ENGINEER FOR COMMENT.

STRUCTURAL STEELWORK (CONTINUED)

- 2.7

RESIN ANCHORS INTO SOLID MASONRY TO BE HIT HY70 INJECTION TECHNIQUE WITH ANCHOR ROD BY HILTI OR SIMILAR APPROVED ALTERNATIVE. REFER TO HILTI TECHNICAL LITERATURE FOR MIN EMBEDMENT DEPTH
- 2.8

RESIN ANCHORS INTO CONCRETE TO BE HIT HY200 WITH HIT-Z CHEMICAL FIXING SYSTEM ANCHOR RODS BY HILTI OR SIMILAR APPROVED ALTERNATIVE. REFER TO HILTI TECHNICAL LITERATURE FOR MIN EMBEDMENT DEPTH
- 2.9

RESIN ANCHORS INTO CONCRETE FOR REINFORCEMENT STARTER BARS TO BE HIT HY150 INJECTION TECHNIQUE BY HILTI OR SIMILAR APPROVED ALTERNATIVE. BAR DIA. TO BE SPECIFIED ON THE DESIGN DRAWINGS.
- 2.10

ANCHOR RODS SHALL BE THREADED STEEL RODS (YIELD POINT 420N/MM²). ANCHOR ROD, BOLTS AND WASHERS SHALL BE HOT-DIPPED GALVANISED TO BS 729.
- 2.11

MINOR SITE ERECTION DAMAGE TO BE MADE GOOD WITH A MINIMUM OF THREE COATS OF GALVAFROID. OR SIMILAR APPROVED ALTERNATIVE.
- 2.12

ALL STRUCTURAL STEELWORK TO BE CE MARKED

ELECTRICAL CABLING / LIGHTNING PROTECTION

- 3.1

THE LIGHTNING PROTECTION INSTALLATION SHALL COMPLY IN FULL WITH BS 6651.
- 3.2

LIGHTNING PROTECTION SHALL PROVIDE A MAXIMUM RESISTANCE OF 10 OHMS.
- 3.3

THE ELECTRICAL INSTALLATION SHALL COMPLY IN FULL WITH BS 7671 (REQUIREMENTS FOR ELECTRICAL INSTALLATIONS).
- 3.4

THE EARTHING INSTALLATION SHALL COMPLY IN FULL WITH BS 7430.
- 3.5

MINIMUM DISTANCE REQUIRED BETWEEN EARTH RODS TO BE 1.5 X THE EARTH ROD DEPTH.
- 3.6

ON COMPLETION OF THE WORKS TESTS CERTIFICATES SHALL BE PROVIDED FOR THE FOLLOWING;
I) ELECTRICAL INSTALLATION.
II) LIGHTNING PROTECTION SYSTEM.
III) CONFORMITY FOR FIRE/ENVIRONMENTAL ALARMS (IF REQ'D).
IV) DC COMMISSIONING.
- 3.7

ALL LIGHTNING PROTECTION EARTH TAPES ABOVE GROUND TO BE COPPER OR ALUMINIUM AS SPECIFIED ON THE SITE SPECIFIC DESIGN DRAWINGS. TAPES ABOVE GROUND TO BE PVC SHEATHED (GREY), BARE COPPER BELOW GROUND. BI-METALLIC JOINTS LOCATED ABOVE GROUND SHALL BE USED WHERE COPPER CONNECTS TO ALUMINIUM. WHERE AN EXISTING ROOFTOP LIGHTNING PROTECTION SYSTEM EXISTS, NEW TAPES SHALL MATCH THE EXISTING. WHEN LIGHTNING PROTECTION TAPES ARE TO BE INSTALLED ON ROOFTOPS WHERE NO EXISTING TAPES ARE INSTALLED, THEY SHALL BE PVC COVERED COPPER TAPES. PVC COLOUR SHALL BE SYMPATHETIC WITH THE BUILDING FINISHES.
- 3.8

FOLLOWING THE PROVISION OF AC POWER TO THE CABIN, THE CONTRACTOR SHALL CARRY OUT THE FOLLOWING WORKS RELATED TO THE INSTALLED FIRE ALARM PANEL (FAP) IF APPLICABLE:
A) CONNECT BATTERY, SUPPLIED WITH THE FAP, INTO THE PANEL.
B) CARRY OUT 'LAMP TEST' TO CONFIRM THAT ALL INDICATIONS ARE ILLUMINATING.
C) CHECK THAT 'MAIN HEALTHY' LAMP IS ILLUMINATED.
D) REMOVE DUST COVERS, IF FITTED, FROM SMOKE DETECTORS.
E) THE FIRE ALARM SYSTEM SHALL BE LEFT IN AN OPERATIONAL STATE UPON SITE COMPLETION (IF REQUIRED).
- 3.9

THE CONTRACTOR SHALL LIAISE WITH ELECTRICITY SUPPLY COMPANY IN ALL MATTERS RELATING TO THE CONNECTION OF ELECTRICITY SUPPLY WITHIN OPERATORS TIME SCALES.
- 3.10

WHERE METER CABINETS OR COMPOUND GATES REQUIRE 2 NO. PADLOCKS THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT BOTH ELECTRICITY COMPANY AND OPERATORS PADLOCKS ARE FITTED.

ELECTRICAL CABLING / LIGHTNING PROTECTION (CONTINUED)

- 3.11

THE CONTRACTOR IS TO ENSURE THAT ANY EXISTING LIGHTNING PROTECTION SYSTEM, WHERE DIRECTLY AFFECTING THE CORRECT OPERATION OF THE OPERATORS INSTALLATION, IS IN A GOOD STATE OF REPAIR WITH CONDUCTOR TAPES CORRECTLY AND ADEQUATELY SECURED. ALL ADDITIONAL EXTRANEIOUS METALWORK FORMING PART OF THE OPERATORS INSTALLATION AT ROOF LEVEL, INCLUDING CABLE TRAY, STEEL PLATFORMS AND STEP OVERS, SHALL BE CROSS-BONDED TO THE LIGHTNING PROTECTION SYSTEM.
- 3.12

WHERE THE OPERATORS SUB-MAIN ELECTRICITY SUPPLY CABLE IS INSTALLED ADJACENT OTHER SERVICES OR SURFACE ROUTED IN ACCESS WAYS, MAINTENANCE AREAS OR PASSING THROUGH LANDLORDS PROPERTY ETC... THEY SHALL BE CLEARLY MARKED WITH AN APPROPRIATE SIGN OR
- 3.13

THE CONTRACTOR IS TO ENSURE THAT THE MAIN EQUIPOTENTIAL BONDING CONDUCTOR IS INSTALLED AT THE NEAREST POINT BETWEEN THE LIGHTNING PROTECTION DOWN TAPE AND BUILDING MAIN EARTH TERMINAL IN ACCORDANCE WITH BS 7671, (IEE REG. 547 AND 413-02-02).
- 3.14

CABLE TRAY SIZES BEFORE AND AFTER JUNCTIONS ARE INDICATED ON THE RELATIVE SITE SPECIFIC DESIGN DRAWINGS.
- 3.15

CABLE TRAYS TO BE SUPPLIED BY: SWIFTS OF SCARBOROUGH LTD. CAYTON LOW ROAD, EASTFIELD, SCARBOROUGH, NORTH YORKSHIRE. YO11 3BY. OR A SIMILAR APPROVED ALTERNATIVE.
- 3.16

ALL CABLE TRAYS AND STEELWORK SHALL BE BONDED TO LIGHTNING PROTECTION TAPES AT THE END OF EACH RUN AND AT CHANGES IN DIRECTION.
- 3.17

ANTENNAS AND DISHES SHALL BE BONDED TO THE TOWER IN ACCORDANCE WITH THE LATEST OPERATORS RELEVANT DOCUMENTATION.
- 3.18

THE NEW LIGHTNING PROTECTION EARTH PIT FINAL POSITIONS AND EXTENT OF LIGHTNING PROTECTION SYSTEM IS TO BE DETERMINED BY A SPECIALIST CONTRACTOR WITH THE APPROVAL OF THE ENGINEER.
- 3.19

EXISTING FENCING, GATES AND HANDRAILING TO BE CROSS-BONDED TO THE NEW LIGHTNING PROTECTION SYSTEM.
- 3.20

ELECTRICITY METER CABINET TO BE CROSS-BONDED TO MAIN LIGHTNING PROTECTION/EARTHING SYSTEM.
- 3.21

THE NUMBER OF EARTH PITS AND LENGTH OF EARTH RODS ARE DEPENDENT ON ACHIEVING LESS THAN 10 OHMS TO EARTH.
- 3.22

ELECTRICAL SUPPLY – CABLE CHANGEOVER SCHEDULE

THE CONTRACTOR SHALL PROVIDE A METHOD STATEMENT DETAILING THE ELECTRICAL POWER CHANGEOVER PRIOR TO COMMENCING ANY WORKS ON SITE. OPERATOR SHALL CONFIRM THAT THE STATEMENT IS ACCEPTABLE PRIOR TO PROGRAMMING THE WORKS.
- 3.23

WHEN ADDING OR RELOCATING EXISTING EARTH PITS THE CONTRACTOR SHALL ENSURE THAT SERVICE EARTH BONDS ARE MAINTAINED AT ALL TIMES.
- 3.24

THE CONTRACTOR SHALL INSTALL EMERGENCY LIGHTING IN ACCORDANCE WITH THE ENCLOSED DRAWINGS AND BS5266 PART 1. ALL FITTINGS SHALL BE APPROVED TO ICEL STANDARDS AND BE CONTROLLED VIA A SUITABLE KEY OPERATED TEST FACILITY, IDENTIFIED IN THE LIGHTING MANUFACTURERS O&M MANUALS. THE SUPPLY CABLES SHALL BE FIRE RATED IN ACCORDANCE WITH BS5266 PART 1.
- 3.25

ANY ALTERATIONS / ADDITIONS TO AN EXISTING FIRE ALARM SYSTEM SHOULD BE IN ACCORDANCE WITH BS5839 PART 1.
- 3.26

THE LOCAL AUTHORITY BUILDING CONTROL SURVEYOR SHALL BE INVITED BY THE CONTRACTOR TO WITNESS TESTS OF THE FIRE ALARM SYSTEM AND/OR ESCAPE LIGHTING.

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