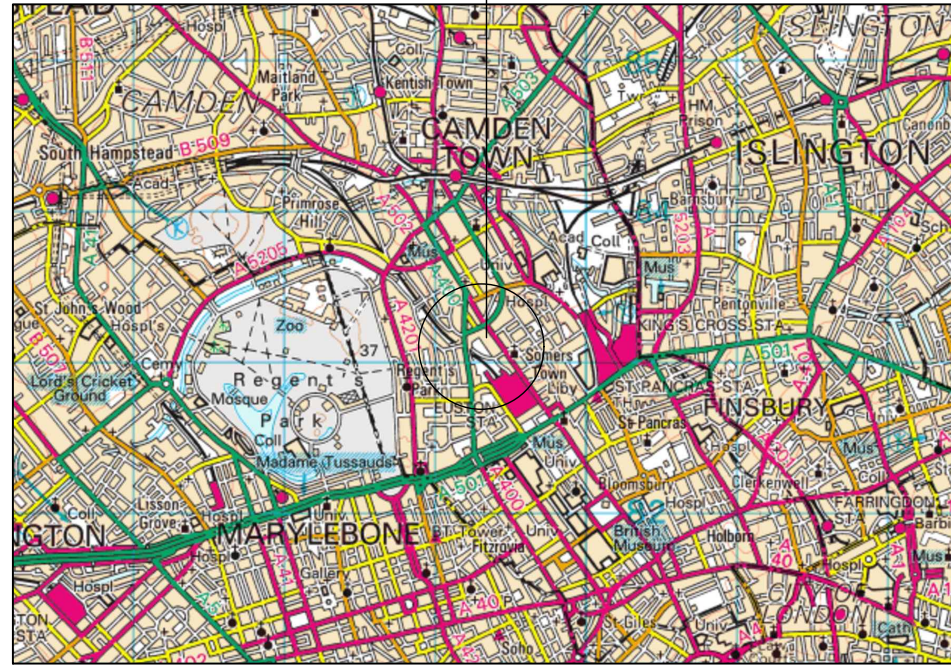
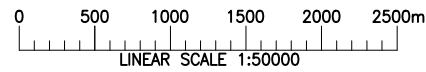


# SITE LOCATION



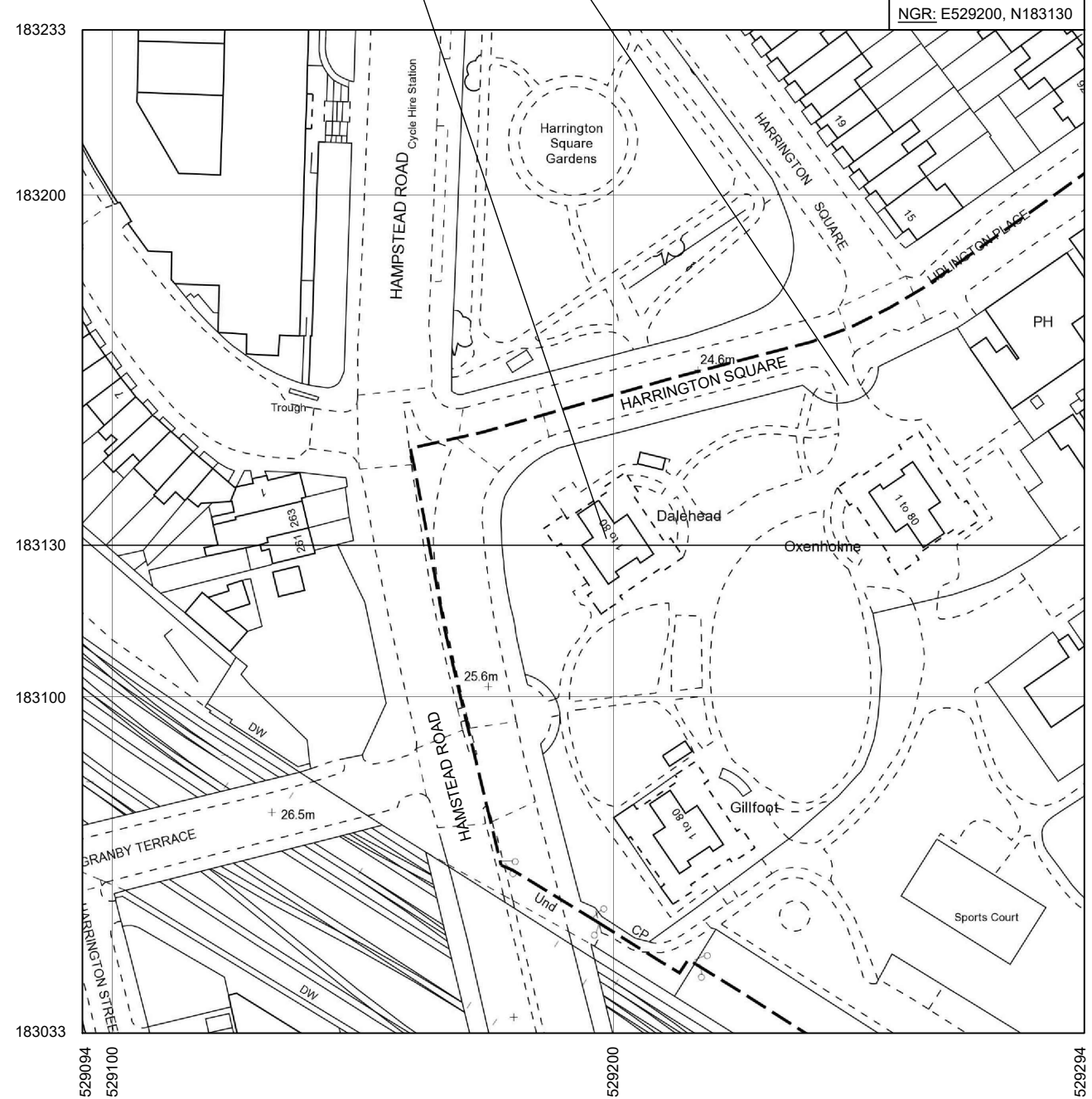
## GENERAL LOCATION PLAN



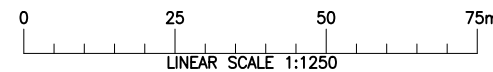
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VEHICULAR ACCESS TO SITE (SECURE GATES)

# SITE LOCATION



## SITE LOCATION PLAN



NEIGHBOURING  
OXENHOLME



DALEHEAD  
(PROPOSED  
LOCATION FOR  
METRONET UK)

PHOTOGRAPH SHOWING NORTH WEST  
FACING ELEVATION OF DALEHEAD

REV	DATE	DESCRIPTION	DRAWN	CHKD
A	06.06.17	PLANNING	MF	MP



DRAWING STATUS  
**PLANNING**

CELL No & NAME  
**DALEHEAD**

SITE NAME AND ADDRESS  
**DALEHEAD  
HARRINGTON SQUARE  
CAMDEN TOWN  
LONDON  
NW1 2JL**

DRAWING TITLE  
**LOCATION AND BLOCK PLAN**

SCALE	AS SHOWN	DATE	06.06.17
DRAWN BY	MF	CHECKED BY	MP
DRG No.	UK.LON.DALEHEAD/100		Rev A



NORTH

EXISTING LANDLORD DISTRIBUTION BOARD (DB) - SOURCE FOR METRONET UK POWER SUPPLY. PROPOSED METRONET UK SUB MAIN CABLE TO EXIT THROUGH PLANT ROOM WALL AT HIGH LEVEL USING EXISTING FOAM SEALED OPENING AND CLEATED TO EXTERNAL FACE OF WALL DROPPING VERTICALLY TO PROPOSED CABLE CONTAINMENT TO REAR OF EQUIPMENT CABINETS

ACCESS DOOR TO PLANT ROOM (ELECTRICAL SWITCHROOM)

EXISTING 1100mm HIGH PARAPET

EXISTING RAISED BRICK DUCTING

EXISTING OLO 390mmØ OLO TRANSMISSION DISH

EXISTING LIGHTNING PROTECTION TAPE (TYPICALLY SHOWN DASHED)

EXISTING 6No. VENT PIPES EXISTING THROUGH PLANT ROOM WALL

ACCESS DOOR TO ROOF LEVEL

EXISTING VALVE

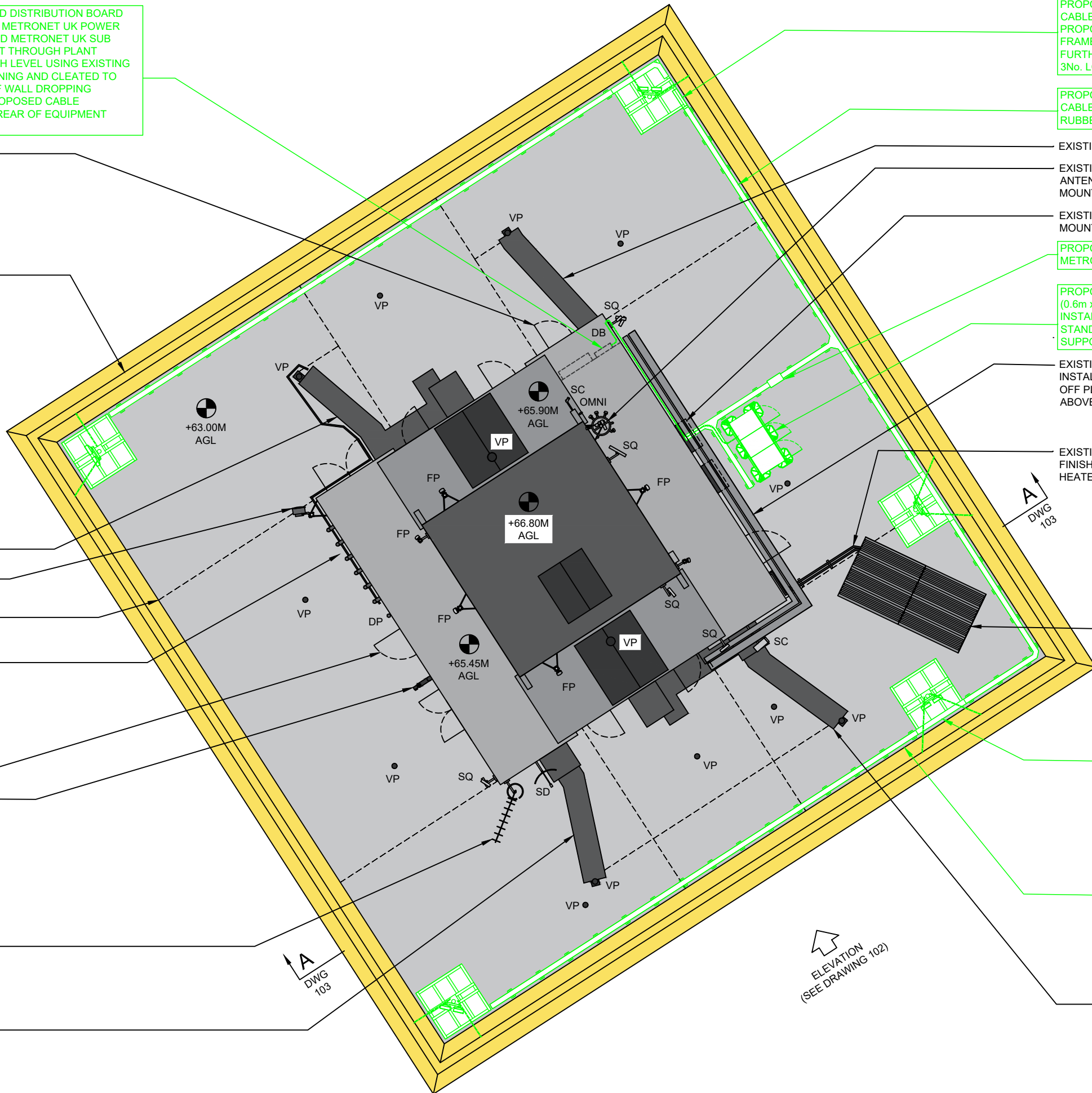
EXISTING 1No. UHF/VHF YAGI AERIAL AND 2No. FOLDED DIPOLES

EXISTING RAISED BRICK DUCTING

**KEY:**

- SD = SATELLITE DISH
- VP = VENT PIPE
- DP = DRAIN PIPE
- SC = SECURITY CAMERA
- SQ = SQUARE PANEL ANTENNA
- FP = FLAT PANEL ANTENNA

EXISTING THIRD PARTY COFDM (DIGITAL CCTV/VIDEO SURVEILLANCE EQUIPMENT). FURTHER DETAILS TO BE SOURCED FROM LANDLORD (COUNCIL) TO VERIFY



PROPOSED METRONET UK 150mm WIDE CABLE TRAY TO LOCALLY STEP UP ONTO PROPOSED FREESTANDING SUPPORT FRAMES FOR CONTINUED CABLE RUN TO FURTHER SUPPORT FRAMES (TYPICAL AT 3No. LOCATIONS)

PROPOSED METRONET UK 150mm WIDE CABLE TRAY INSTALLED ON PROPRIETY RUBBER BLOCKS

EXISTING RAISED BRICK DUCTING  
EXISTING 5No. OLO FLAT PANEL ANTENNAS INSTALLED OFF POLE MOUNTED STEEL ARRAY  
EXISTING 2No. OLO EQUIPMENT CABINETS MOUNTED OFF PLANT ROOM WALL

PROPOSED STEPOVER TO NEW METRONET UK CABLE CONTAINMENT

PROPOSED 3No. METRONET UK CABINETS (0.6m x 0.8m x 1.46m HIGH) TO BE INSTALLED ON NEW PROPRIETY FREE STANDING PLATFORM ('BIG FOOT' SUPPORT FRAME o.s.a)

EXISTING 2No. OLO CABLE TRAYS INSTALLED HORIZONTALLY AT HIGH LEVEL OFF PLANT ROOM WALL (APPROX 2.0m ABOVE ROOF LEVEL)

EXISTING PIPEWORK ACROSS ROOF FINISHES FOR EVACUATED TUBE SOLAR HEATER PANEL

EXISTING EVACUATED TUBE SOLAR HEATER PANEL INSTALLED OFF STEEL FRAME

PROPOSED 6No. METRONET UK ANTENNAS INSTALLED ON NEW 1.6m x 1.6m PROPRIETY FREESTANDING PLATFORM c/w 2.3m HIGH SUPPORT POST AND U-HORN BRACKETS - TYPICAL AT 5No. LOCATIONS SHOWN THUS (TOTAL 30No. METRONET UK ANTENNAS)

PROPOSED DEMARCATION CHAIN TO SPAN BETWEEN METRONET FREESTANDING SUPPORT POLE AND EXISTING PARAPET TO RESTRICT ACCESS TO FRONT OF METRONET ANTENNAS (TYPICAL TO ALL PROPOSED METRONET UK FREESTANDING SUPPORT FRAMES)

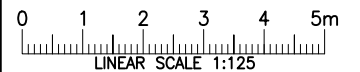
EXISTING RAISED BRICK DUCTING

**NOTES:**

- DO NOT SCALE. ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE. IF IN ANY DOUBT - PLEASE ASK!
- ALL PROPOSED METRONET UK EQUIPMENT SHOWN IN GREEN

**ROOF ACCESS:**

FOR ACCESS TO ROOF LEVEL TAKE LIFT TO TOP FLOOR (FLOOR 20). USE CONCRETE STAIR CASE FROM FLOOR 20 TO ROOF LEVEL PLANT ROOM



A	06.06.17	PLANNING	MF	MP
REV	DATE	DESCRIPTION	DRAWN	CHKD



DRAWING STATUS

PLANNING

CELL No & NAME

DALEHEAD

SITE NAME AND ADDRESS

DALEHEAD  
HARRINGTON SQUARE  
CAMDEN TOWN  
LONDON  
NW1 2JL

DRAWING TITLE

ROOF LEVEL PLAN

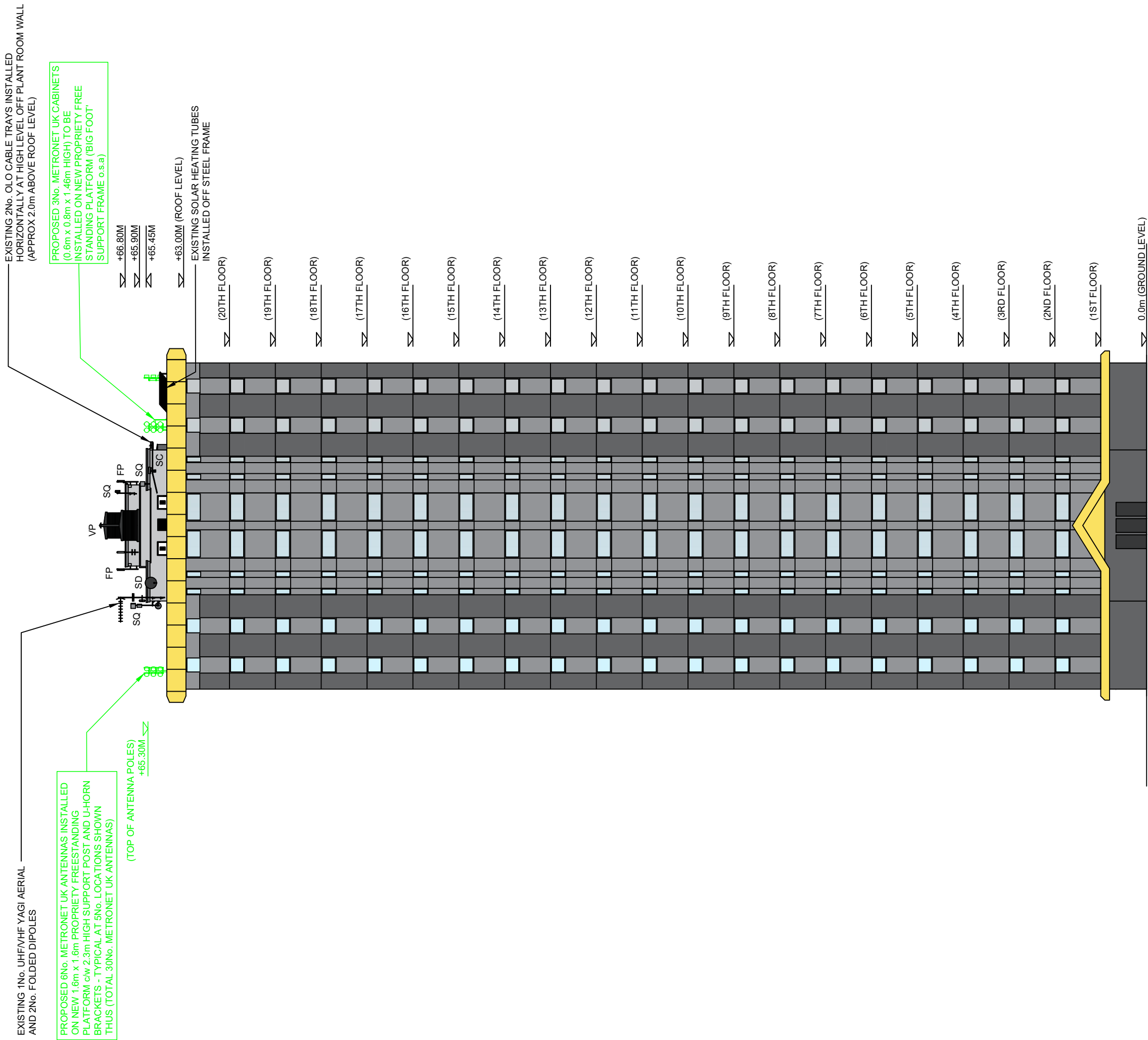
SCALE AS SHOWN DATE 06.06.17

DRAWN BY MF CHECKED BY MP

DRG No. UK.LON.DALEHEAD/101 Rev A

**PROPOSED ROOF PLAN**

(SCALE 1:125)



SOUTH EAST FACING ELEVATION  
(SCALE 1:250)

KEY:

- SD = SATELLITE DISH
- VP = VENT PIPE
- DP = DRAIN PIPE
- SC = SECURITY CAMERA
- SQ = SQUARE PANEL ANTENNA
- FP = FLAT PANEL ANTENNA

EXISTING THIRD PARTY COFDM (DIGITAL CCTV/VIDEO SURVEILLANCE EQUIPMENT), FURTHER DETAILS TO BE SOURCED FROM LANDLORD (COUNCIL) TO VERIFY

NOTES:

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- ALL PROPOSED METRONET UK EQUIPMENT SHOWN IN GREEN



REV	DATE	DESCRIPTION	DRAWN	CHKD
A	06.06.17	PLANNING	MF	MP



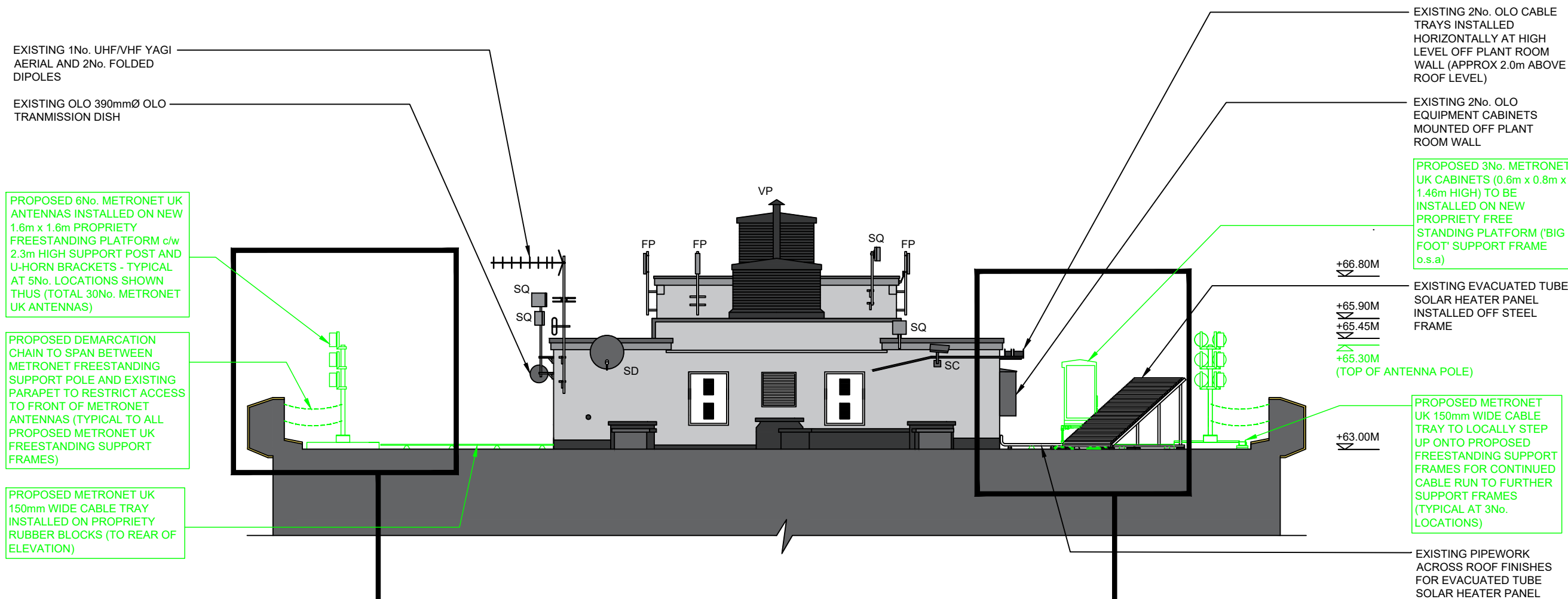
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ECO PARK ROAD - LUDLOW  
SHROPSHIRE - SY8 1FB



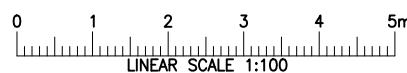
DRAWING STATUS			
PLANNING			
CELL No & NAME			
DALEHEAD			
SITE NAME AND ADDRESS			
DALEHEAD HARRINGTON SQUARE CAMDEN TOWN LONDON NW1 2JL			
DRAWING TITLE			
SOUTH EAST FACING ELEVATION			
SCALE	AS SHOWN	DATE	06.06.17
DRAWN BY	MF	CHECKED BY	MP
DRG No.	UK.LON.DALEHEAD/102		
Rev	A		

**NOTES:**

- DO NOT SCALE. ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE. IF IN ANY DOUBT - PLEASE ASK!
- ALL PROPOSED METRONET UK EQUIPMENT SHOWN IN GREEN



**SECTION A-A**



EXISTING 1No. UHF/VHF YAGI AERIAL AND 2No. FOLDED DIPOLES

EXISTING OLO 390mmØ OLO TRANSMISSION DISH

PROPOSED 6No. METRONET UK ANTENNAS INSTALLED ON NEW 1.6m x 1.6m PROPRIETY FREESTANDING PLATFORM c/w 2.3m HIGH SUPPORT POST AND U-HORN BRACKETS - TYPICAL AT 5No. LOCATIONS SHOWN THUS (TOTAL 30No. METRONET UK ANTENNAS)

PROPOSED DEMARCATION CHAIN TO SPAN BETWEEN METRONET FREESTANDING SUPPORT POLE AND EXISTING PARAPET TO RESTRICT ACCESS TO FRONT OF METRONET ANTENNAS (TYPICAL TO ALL PROPOSED METRONET UK FREESTANDING SUPPORT FRAMES)

PROPOSED METRONET UK 150mm WIDE CABLE TRAY INSTALLED ON PROPRIETY RUBBER BLOCKS (TO REAR OF ELEVATION)

PROPOSED 6No. METRONET UK ANTENNAS INSTALLED ON NEW 1.6m x 1.6m PROPRIETY FREESTANDING PLATFORM c/w 2.3m HIGH SUPPORT POST AND U-HORN BRACKETS - TYPICAL AT 5No. LOCATIONS SHOWN THUS (TOTAL 30No. METRONET UK ANTENNAS)

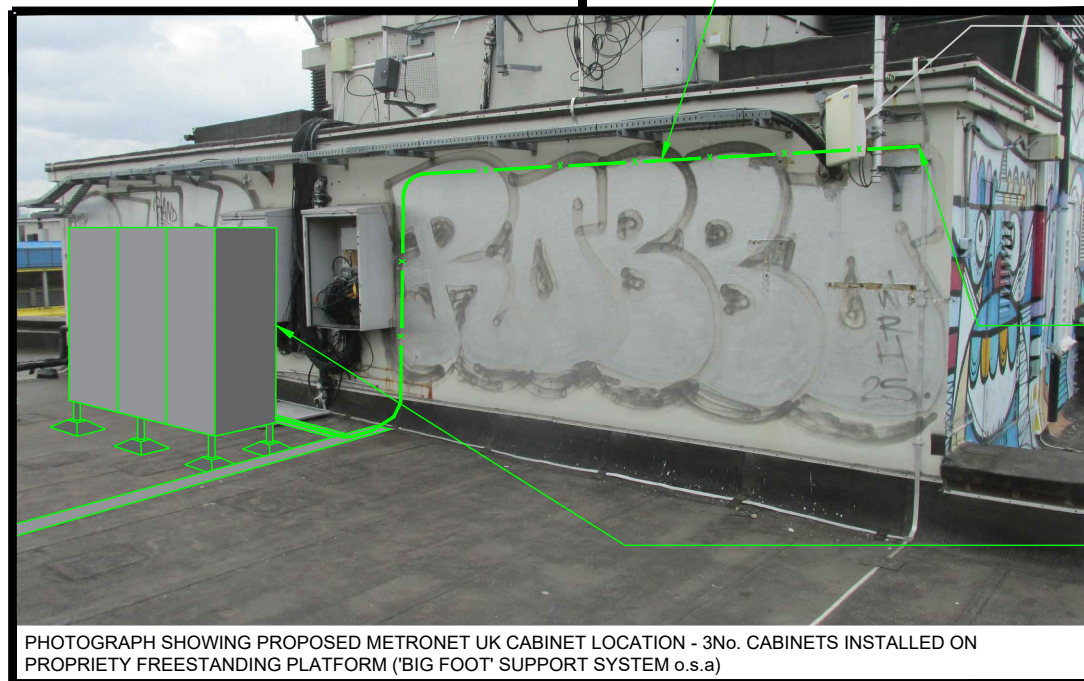
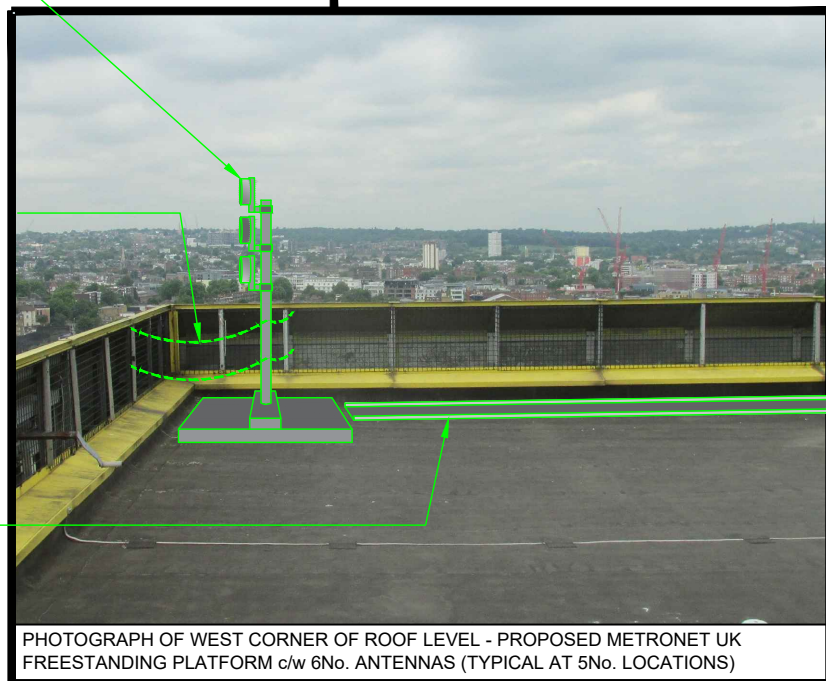
PROPOSED DEMARCATION CHAIN TO SPAN BETWEEN METRONET FREESTANDING SUPPORT POLE AND EXISTING PARAPET TO RESTRICT ACCESS TO FRONT OF METRONET ANTENNAS (TYPICAL TO ALL PROPOSED METRONET UK FREESTANDING SUPPORT FRAMES)

PROPOSED METRONET UK 150mm WIDE CABLE TRAY INSTALLED ON PROPRIETY RUBBER BLOCKS (TO REAR OF ELEVATION)

**KEY:**

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- FP = FLAT PANEL ANTENNA

EXISTING THIRD PARTY COFDM (DIGITAL CCTV/VIDEO SURVEILLANCE EQUIPMENT). FURTHER DETAILS TO BE SOURCED FROM LANDLORD (COUNCIL) TO VERIFY



EXISTING 2No. OLO CABLE TRAYS INSTALLED HORIZONTALLY AT HIGH LEVEL OFF PLANT ROOM WALL (APPROX 2.0m ABOVE ROOF LEVEL)

EXISTING 2No. OLO EQUIPMENT CABINETS MOUNTED OFF PLANT ROOM WALL

PROPOSED 3No. METRONET UK CABINETS (0.6m x 0.8m x 1.46m HIGH) TO BE INSTALLED ON NEW PROPRIETY FREE STANDING PLATFORM ('BIG FOOT' SUPPORT FRAME o.s.a)

+66.80M

+65.90M

+65.45M

+65.30M (TOP OF ANTENNA POLE)

+63.00M

EXISTING EVACUATED TUBE SOLAR HEATER PANEL INSTALLED OFF STEEL FRAME

PROPOSED METRONET UK 150mm WIDE CABLE TRAY TO LOCALLY STEP UP ONTO PROPOSED FREESTANDING SUPPORT FRAMES FOR CONTINUED CABLE RUN TO FURTHER SUPPORT FRAMES (TYPICAL AT 3No. LOCATIONS)

EXISTING PIPEWORK ACROSS ROOF FINISHES FOR EVACUATED TUBE SOLAR HEATER PANEL

PROPOSED METRONET UK SUB MAIN CABLE CLEATED TO EXTERNAL FACE OF WALL DROPPING VERTICALLY TO PROPOSED CABLE CONTAINMENT TO REAR OF EQUIPMENT CABINETS

EXISTING OLO FLAT PANEL ANTENNA (ASSUMED LIVE AND OPERATIONAL) - NOTE! SITING OF PROPOSED METRONET UK CABINETS NOT TO RESTRICT CLEAR LINE OF SIGHT

PROPOSED METRONET UK SUB MAIN CABLE TO EXIT THROUGH PLANT ROOM WALL AT HIGH LEVEL USING EXISTING FOAM SEALED OPENING

PROPOSED 3No. METRONET UK CABINETS (0.6m x 0.8m x 1.46m HIGH) TO BE INSTALLED ON NEW PROPRIETY FREE STANDING PLATFORM ('BIG FOOT' SUPPORT FRAME o.s.a)

REV	DATE	DESCRIPTION	DRAWN	CHKD
A	06.06.17	PLANNING	MF	MP



DRAWING STATUS  
**PLANNING**

CELL No & NAME  
**DALEHEAD**

SITE NAME AND ADDRESS  
**DALEHEAD  
HARRINGTON SQUARE  
CAMDEN TOWN  
LONDON  
NW1 2JL**

DRAWING TITLE  
**SECTION A-A**

SCALE AS SHOWN DATE 06.06.17

DRAWN BY MF CHECKED BY MP

DRG No.  
**UK.LON.DALEHEAD/103**

Rev  
**A**



EXISTING 390mmØ OLO TRANSMISSION DISH AND APPROX L.O.S (LINE OF SIGHT) AT APPROX 1650mm ABOVE MAIN ROOF LEVEL WITH L.O.S (LINE OF SIGHT) SHOWN THUS TRANSMISSION DISH LINKS TYPICALLY HAVE VERY LOW OUTPUT POWERS AND SO IN MOST CASES CAN BE CONSIDERED TO BE 'SAFE TO TOUCH' MEANING THEY PRESENT NO RF RISK TO HEALTH AS ICNIRP EXPOSURE LEVELS ARE NOT EXCEEDED AT THE SURFACE OF THE DISH - THEREFORE THE LOW LEVEL DISH LINK THAT WAS OBSERVED IS CONSIDERED SAFE, HOWEVER SUBJECT TO CONFIRMATION FROM DISH OWNER

PROPOSED 6No. METRONET UK ANTENNAS INSTALLED ON NEW 1.6m x 1.6m PROPRIETY FREESTANDING PLATFORM c/w 2.3m HIGH SUPPORT POST AND U-HORN BRACKETS

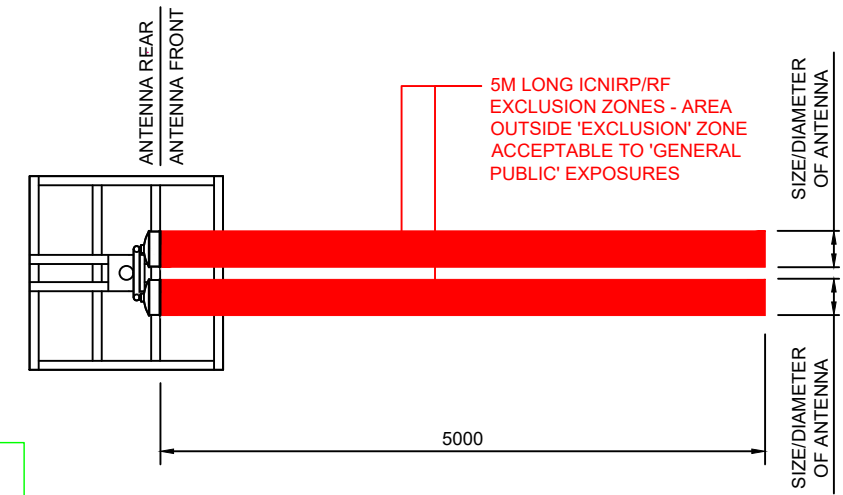
PROPOSED DEMARCATION CHAIN TO SPAN BETWEEN METRONET FREESTANDING SUPPORT POLE AND EXISTING PARAPET TO RESTRICT ACCESS TO FRONT OF METRONET ANTENNAS

PROPOSED 6No. METRONET UK ANTENNAS INSTALLED ON NEW 1.6m x 1.6m PROPRIETY FREESTANDING PLATFORM c/w 2.3m HIGH SUPPORT POST AND U-HORN BRACKETS

5M LONG ICNIRP RESTRICTED ZONES

AWAIT INFORMATION FROM LANDLORD (COUNCIL) RE EXISTING THIRD PARTY EQUIPMENT TO CENTRAL PLANT ROOF AREA i.e. EXTENT OF 'LIVE'/OPERATIONAL' EQUIPMENT AND WHETHER POWER OUTPUT LEVELS ARE RELEVANT TO ICNIRP REGULATIONS

PROPOSED 6No. METRONET UK ANTENNAS INSTALLED ON NEW 1.6m x 1.6m PROPRIETY FREESTANDING PLATFORM c/w 2.3m HIGH SUPPORT POST AND U-HORN BRACKETS



PLAN - METRONET UK ICNIRP/RF RESTRICTED EXCLUSION ZONE (NO ACCESS)

**RADIO FREQUENCY (RF) STANDARDS**

THE RADIATION PROTECTION DIVISION OF THE HEALTH PROTECTION AGENCY (HPA) IS AN INDEPENDENT BODY THAT HAS RESPONSIBILITY FOR ADVISING UK GOVERNMENT DEPARTMENTS ON STANDARDS OF PROTECTION FOR EXPOSURE TO RF. THE HPA MEASURE RF EXPOSURE AGAINST GUIDELINES CREATED BY THE INTERNATIONAL COMMISSION FOR NON-IONISING RADIATION PROTECTION (ICNIRP). THE GUIDELINES ISSUED BY ICNIRP TAKE ALL RADIO FREQUENCIES AND HEALTH EFFECTS INTO CONSIDERATION AND PROVIDE REFERENCE LEVELS/ZONES WITH BUILT-IN SAFETY MARGINS FOR BOTH 'WORKER' AND 'GENERAL PUBLIC' EXPOSURES

EXISTING TRANSMISSION DISHES HAVE VERY LOW OUTPUT POWERS AND THEREFORE CAN BE CONSIDERED 'SAFE TO TOUCH' MEANING THAT THEY PRESENT NO RF RISK TO HEALTH AS ICNIRP EXPOSURE LEVELS ARE NOT EXCEEDED AT THE SURFACE OF THE DISH. IT IS WORTH NOTING THAT THEY ARE TYPICALLY LOCATED SUCH THAT ANY INDIVIDUAL ACCESSING ROOF AREAS CAN NOT GET IN FRONT OF THEM SINCE THE SHADOWING CAUSED BY SUCH A BLOCKAGE COULD LEAD TO AN INTERRUPTION IN SERVICE

5M LONG ICNIRP RESTRICTED ZONES

PROPOSED DEMARCATION CHAIN TO SPAN BETWEEN METRONET FREESTANDING SUPPORT POLE AND EXISTING PARAPET TO RESTRICT ACCESS TO FRONT OF METRONET ANTENNAS

PROPOSED 6No. METRONET UK ANTENNAS INSTALLED ON NEW 1.6m x 1.6m PROPRIETY FREESTANDING PLATFORM c/w 2.3m HIGH SUPPORT POST AND U-HORN BRACKETS

PROPOSED DEMARCATION CHAIN TO SPAN BETWEEN METRONET FREESTANDING SUPPORT POLE AND EXISTING PARAPET TO RESTRICT ACCESS TO FRONT OF METRONET ANTENNAS

5M LONG ICNIRP RESTRICTED ZONES

5M LONG ICNIRP RESTRICTED ZONES

PROPOSED DEMARCATION CHAIN TO SPAN BETWEEN METRONET FREESTANDING SUPPORT POLE AND EXISTING PARAPET TO RESTRICT ACCESS TO FRONT OF METRONET ANTENNAS

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5M LONG ICNIRP RESTRICTED ZONES

PROPOSED 6No. METRONET UK ANTENNAS INSTALLED ON NEW 1.6m x 1.6m PROPRIETY FREESTANDING PLATFORM c/w 2.3m HIGH SUPPORT POST AND U-HORN BRACKETS

**KEY:**

- SD = SATELLITE DISH
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- FP = FLAT PANEL ANTENNA

EXISTING THIRD PARTY COFDM (DIGITAL CCTV/VIDEO SURVEILLANCE EQUIPMENT). FURTHER DETAILS TO BE SOURCED FROM LANDLORD (COUNCIL) TO VERIFY

PROPOSED ICNIRP ROOF PLAN - FINAL ORIENTATION AND BEARINGS OF METRONET UK ANTENNAS/DISHES TBA

(SCALE 1:125)

**NOTES:**

- DO NOT SCALE. ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE. IF IN ANY DOUBT - PLEASE ASK!
- ALL PROPOSED METRONET UK EQUIPMENT SHOWN IN GREEN

A	06.06.17	PLANNING	MF	MP
REV	DATE	DESCRIPTION	DRAWN	CHKD



DRAWING STATUS  
**PLANNING**  
CELL No & NAME  
DALEHEAD

SITE NAME AND ADDRESS  
DALEHEAD  
HARRINGTON SQUARE  
CAMDEN TOWN  
LONDON  
NW1 2JL

DRAWING TITLE  
ICNIRP PLAN

SCALE	AS SHOWN	DATE	06.06.17
DRAWN BY	MF	CHECKED BY	MP

DRG No.	UK.LON.DALEHEAD/104	Rev	A
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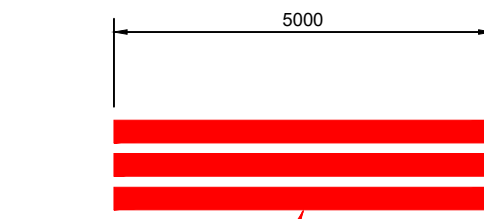
AWAIT INFORMATION FROM LANDLORD (COUNCIL) RE EXISTING THIRD PARTY EQUIPMENT TO CENTRAL PLANT ROOF AREA i.e. EXTENT OF 'LIVE'/OPERATIONAL' EQUIPMENT AND WHETHER POWER OUTPUT LEVELS ARE RELEVANT TO ICNIRP REGULATIONS

EXISTING 390mmØ OLO TRANSMISSION DISH AND APPROX L.O.S (LINE OF SIGHT) AT APPROX 1650mm ABOVE MAIN ROOF LEVEL (REFER TO ICNIRP PLAN FOR FURTHER DETAIL DWG 104)

PROPOSED 6No. METRONET UK ANTENNAS INSTALLED ON NEW 1.6m x 1.6m PROPRIETY FREESTANDING PLATFORM c/w 2.3m HIGH SUPPORT POST AND U-HORN BRACKETS

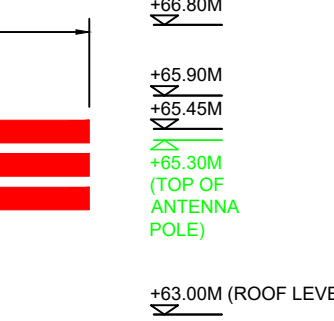
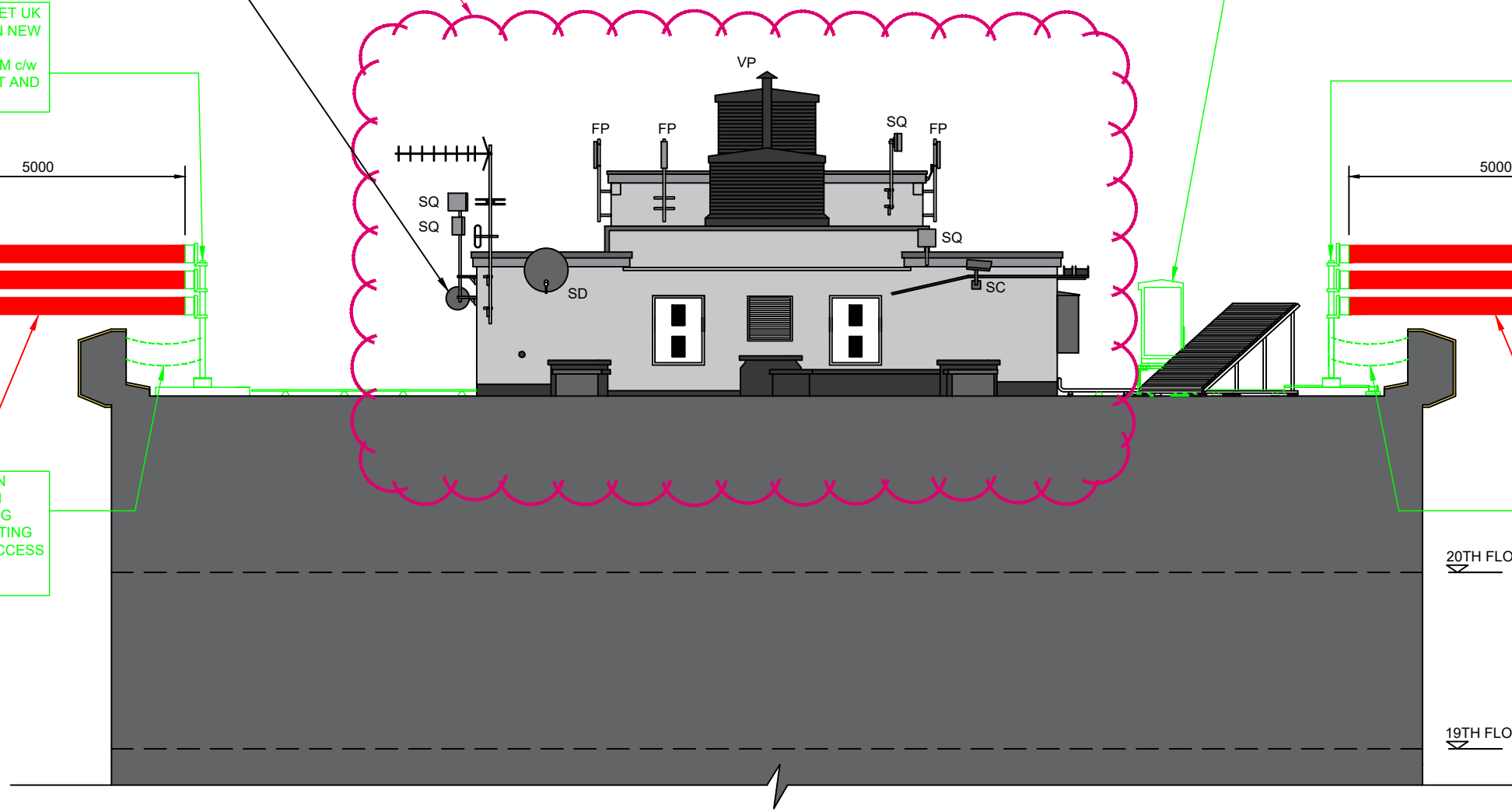
PROPOSED 3No. METRONET UK CABINETS (0.6m x 0.8m x 1.46m HIGH) TO BE INSTALLED ON NEW PROPRIETY FREE STANDING PLATFORM ('BIG FOOT' SUPPORT FRAME o.s.a)

PROPOSED 6No. METRONET UK ANTENNAS INSTALLED ON NEW 1.6m x 1.6m PROPRIETY FREESTANDING PLATFORM c/w 2.3m HIGH SUPPORT POST AND U-HORN BRACKETS



5M LONG ICNIRP RESTRICTED ZONES

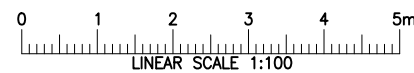
PROPOSED DEMARCATION CHAIN TO SPAN BETWEEN METRONET FREESTANDING SUPPORT POLE AND EXISTING PARAPET TO RESTRICT ACCESS TO FRONT OF METRONET ANTENNAS



5M LONG ICNIRP RESTRICTED ZONES

PROPOSED DEMARCATION CHAIN TO SPAN BETWEEN METRONET FREESTANDING SUPPORT POLE AND EXISTING PARAPET TO RESTRICT ACCESS TO FRONT OF METRONET ANTENNAS

ICNIRP SECTION – FINAL ORIENTATION AND BEARINGS OF METRONET UK ANTENNAS/DISHES TBA



KEY:

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EXISTING THIRD PARTY COFDM (DIGITAL CCTV/VIDEO SURVEILLANCE EQUIPMENT). FURTHER DETAILS TO BE SOURCED FROM LANDLORD (COUNCIL) TO VERIFY

REV	DATE	DESCRIPTION	DRAWN	CHKD
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DRAWING STATUS

PLANNING

CELL No & NAME

DALEHEAD

SITE NAME AND ADDRESS

DALEHEAD  
HARRINGTON SQUARE  
CAMDEN TOWN  
LONDON  
NW1 2JL

DRAWING TITLE

ICNIRP SECTION

SCALE AS SHOWN DATE 06.06.17

DRAWN BY MF CHECKED BY MP

DRG No. UK.LON.DALEHEAD/105

Rev A