

**EXISTING EQUIPMENT**

INTERNAL ROOM DETAILS:  
 INTERNAL ROOM WITH 3900L, FLEXI AND SAMI EQUIPMENT AT LOWER ROOF LEVEL  
 DIMENSIONS: 5420x3500x3000 HIGH  
 MATERIAL: MASONRY  
 COLOUR: WHITE

ANTENNA MOUNTED ON SUPPORT POLES ON STEEL PLATFORM AND FREE STANDING FRAME

**PROPOSED EQUIPMENT**

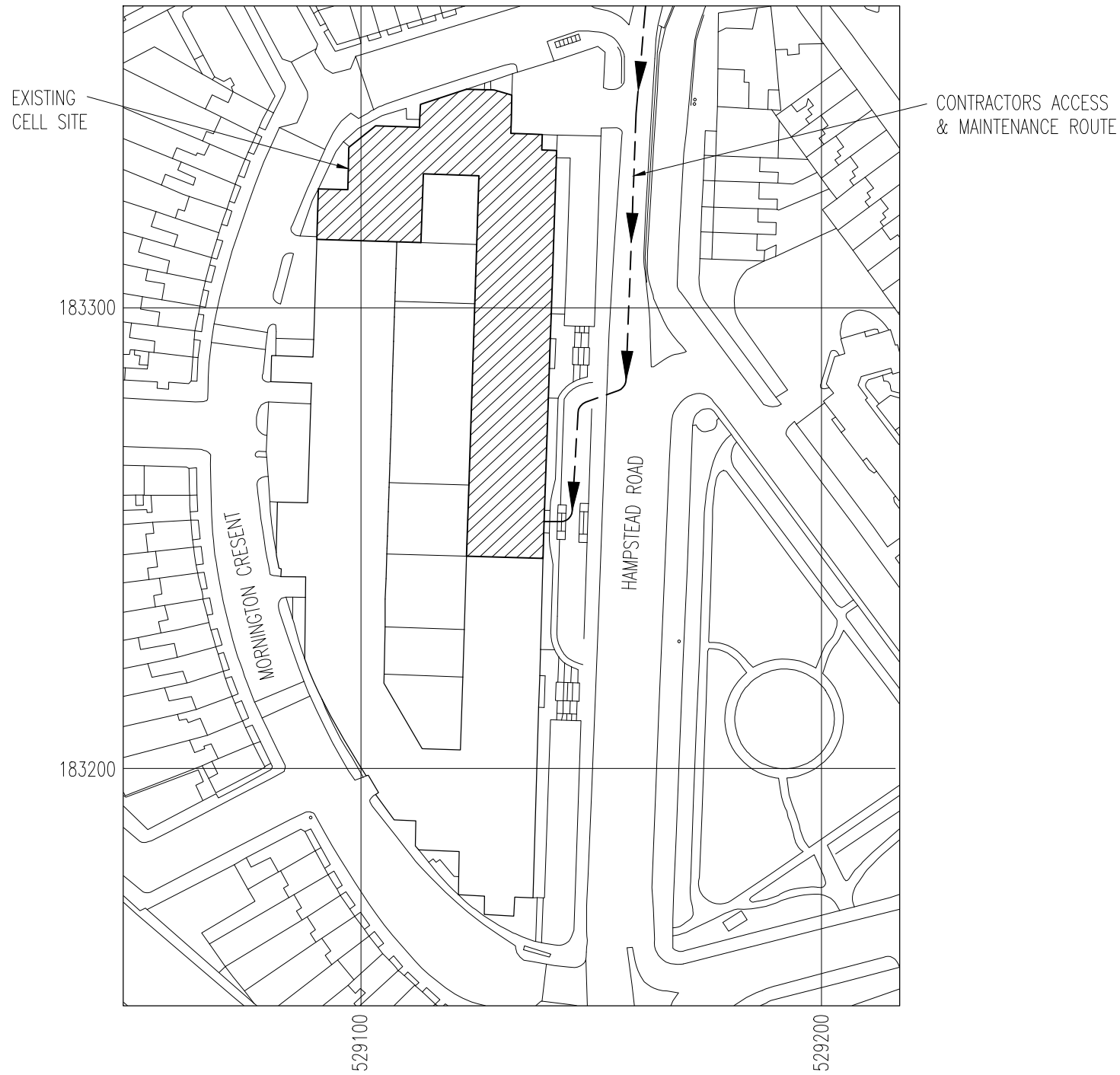
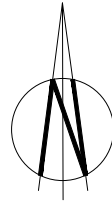
EXISTING 3No UMTS ANTENNAS TO BE RETAINED. EXISTING 3No GSM ANTENNAS TO BE REPLACED WITH 3No NEW MULTIBAND ANTENNAS. NEW EXTENSION POLES TO BE INSTALLED ON ALL 3 MAIN SUPPORT POLES AND YOKE BRACKETS LIFTED BY 700mm.

NEW RRH'S & BOB'S TO BE INSTALLED ON NEW UNISTRUT FRAMES ON HANDRIALS ON UPPER ROOF. NEW CABLES TO FOLLOW ROUTE OF EXISTING/NEW CABLE MANAGEMENT FROM LARGE CABIN TO ANTENNA VIA NEW EQUIPMENT.

BOB'S TO BE FITTED ON NEW VERTICAL CABLE LADDER WITHIN EQUIPMENT ROOM.

FREESTANDING HANDRAIL WITH RF SIGNAGE TO BE INSTALLED AT ALL THREE CELLS AS SHOWN ON DRAWING 02.

REPLACEMENT FREESTANDING ANTENNA SUPPORT FRAME (AND EXTENSION POLE) TO BE INSTALLED AT CELL 2.



**LOCATION PLAN**

NGR E 529130  
 NGR N 183292

SCALE 1:1250

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 LICENCE NUMBER 100020449

EXCLUSION ZONES CONFORM TO THE ICNIRP REFERENCE LEVEL FOR LIMITED EXPOSURE TO MEMBERS OF THE GENERAL PUBLIC

A3

E	EXISTING ELEVATION ADDED.	10.02.15	JPR	PS
D	CELL 1 & 2 RRHs RELOCATED	12.01.15	JPR	PS
C	REPLACEMENT FREESTANDING FRAME ADDED AT CELL 2.	12.01.15	JPR	PS
B	EXTENSION POLES ADDED. DEMARCATION HANDRAIL ADDED.	11.11.14	JPR	PS
A	PLANNING ISSUE.	08.09.14	MW	PS
No.	Revision	Date	By	ckd



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Site Name & Address:  
**GREATER LONDON HOUSE**  
**HAMPSTEAD ROAD, HAMPSTEAD**  
**LONDON, NW1 7RB**

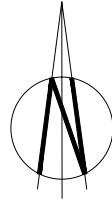
Title:  
**PROPOSED TELECOMMUNICATIONS**  
**ROOFTOP UPGRADE**  
**SITE LOCATION**

Purpose of Issue:  
**PLANNING**

Drawing No:  
**98528 - 01**

Cell No: **98528** Site No: **788847**

Issue:	Scale: AS STATED	Ch'd: PS	Date: 08.09.14
E	Drn: MW	Date: 04.09.14	App: PS Date: 08.09.14



PROPOSED RRHs & B.O.B. TO BE INSTALLED ON NEW UNISTRUT FRAME MOUNTED ON EXISTING HANDRAIL.

EXISTING UMTS ANTENNAS TO BE RETAINED

OTHER OPERATORS DISH AND ANTENNA

EXISTING GSM ANTENNA TO BE REPLACED WITH NEW 6-PORT ANTENNA.

PROPOSED FREESTANDING HANDRAIL WITH RF SIGNAGE TO BE INSTALLED.

OTHER OPERATORS ANTENNA

OTHER OPERATORS CABINET

OTHER OPERATORS CABLE TRAY

EXISTING 300 WIDE CABLE TRAY

PIPING AND DUCTING

EXISTING HOOPED LADDERS AND ACCESS PLATFORM TO UPPER ROOF LEVEL

EXISTING EMERGENCY GENERATOR AT GROUND LEVEL

OTHER OPERATORS ANTENNA

EXISTING 300 WIDE CABLE TRAY

EXISTING UMTS ANTENNAS TO BE RETAINED

EXISTING STEPOVER

EXISTING GSM ANTENNA TO BE REPLACED WITH NEW 6-PORT ANTENNA.

PROPOSED FREESTANDING ANTENNA SUPPORT FRAME (WITH NEW EXTENSION POLE) TO REPLACE EXISTING FRAME. EXISTING YOKE BRACKET TO BE RE-USED.

PROPOSED FREESTANDING HANDRAIL WITH RF SIGNAGE TO BE INSTALLED.

EXISTING WALKWAY

EXISTING 525 WIDE CABLE TRAY

OTHER OPERATORS EQUIPMENT CABIN

PROPOSED 2600 LTE UPGRADE OF 3900L IN EXISTING INTERNAL ROOM TO BE COMPLETED.

EXISTING HOOPED ACCESS LADDERS AND PLATFORM ACROSS ROOF DIVIDE

**SITE PLAN**

SCALE 1:250

**NOTE**

1. ELECTRICAL SAFETY SIGN TO BE FITTED AT EYE LEVEL ON MASONRY ADJACENT LANDLORDS METER
2. POINT OF ENTRY & EXCLUSION ZONE SAFETY SIGN TO BE FITTED TO INSIDE OF ROOFTOP ACCESS DOOR.
3. ACCESS SIGN TO BE FITTED AT EYE LEVEL TO EQUIPMENT ROOM DOOR.
4. ANTENNA SAFETY SIGN ATTACHED TO REAR OF ALL ANTENNA.

100mm

50mm

10mm

A3

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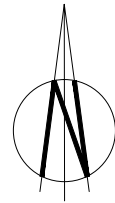
Title:  
**PROPOSED TELECOMMUNICATIONS  
ROOFTOP UPGRADE  
SITE LAYOUT**

Purpose of Issue:  
**PLANNING**

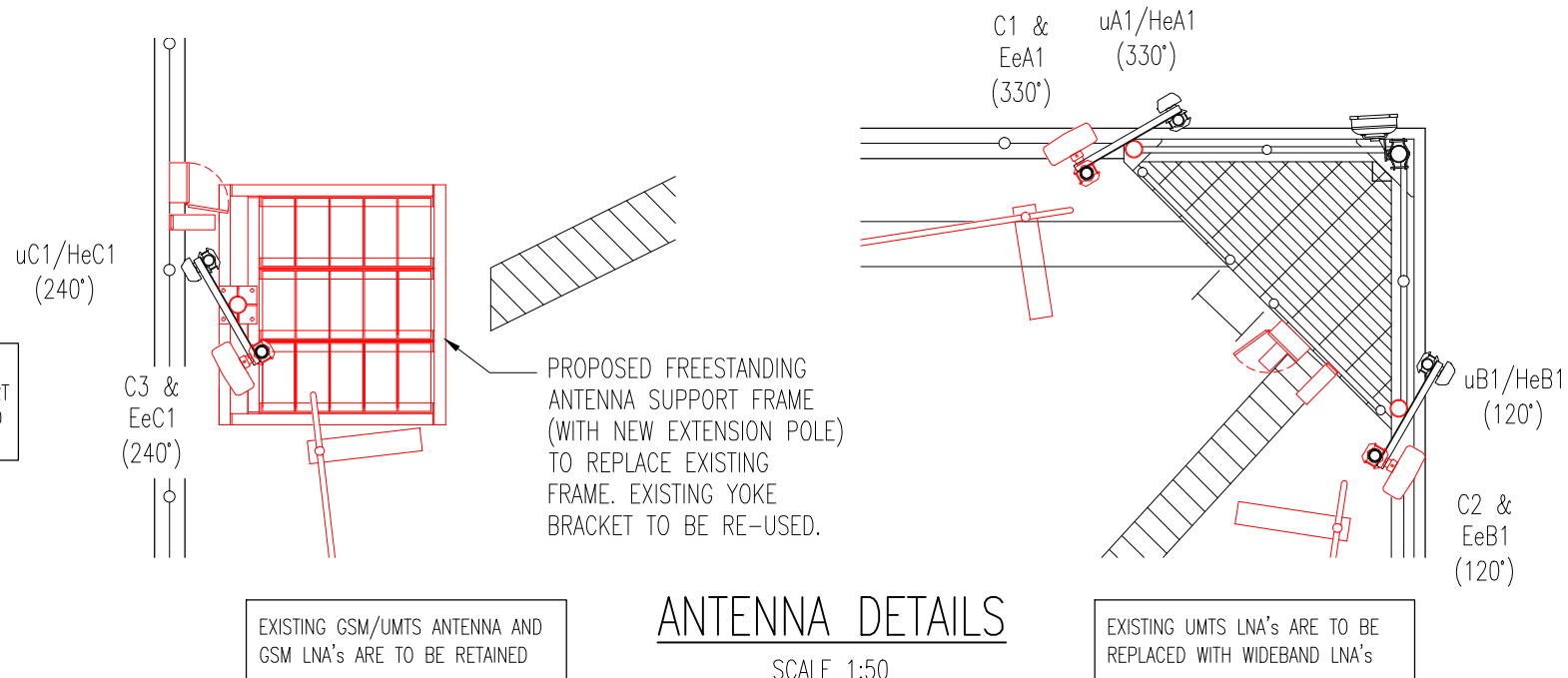
Drawing No:  
**98528 - 02**

Cell No: **98528** Site No: **788847**

Issue:	Scale: AS STATED	Ch'd: PS	Date: 08.09.14
E	Drn: MW	Date: 04.09.14	App: PS
		Date: 08.09.14	



NEW EXTENSION POLES TO BE INSTALLED ON ALL 3 MAIN SUPPORT POLES AND YOKE BRACKETS LIFTED BY 700mm.



EXISTING GSM/UMTS ANTENNA AND GSM LNA's ARE TO BE RETAINED

### ANTENNA DETAILS

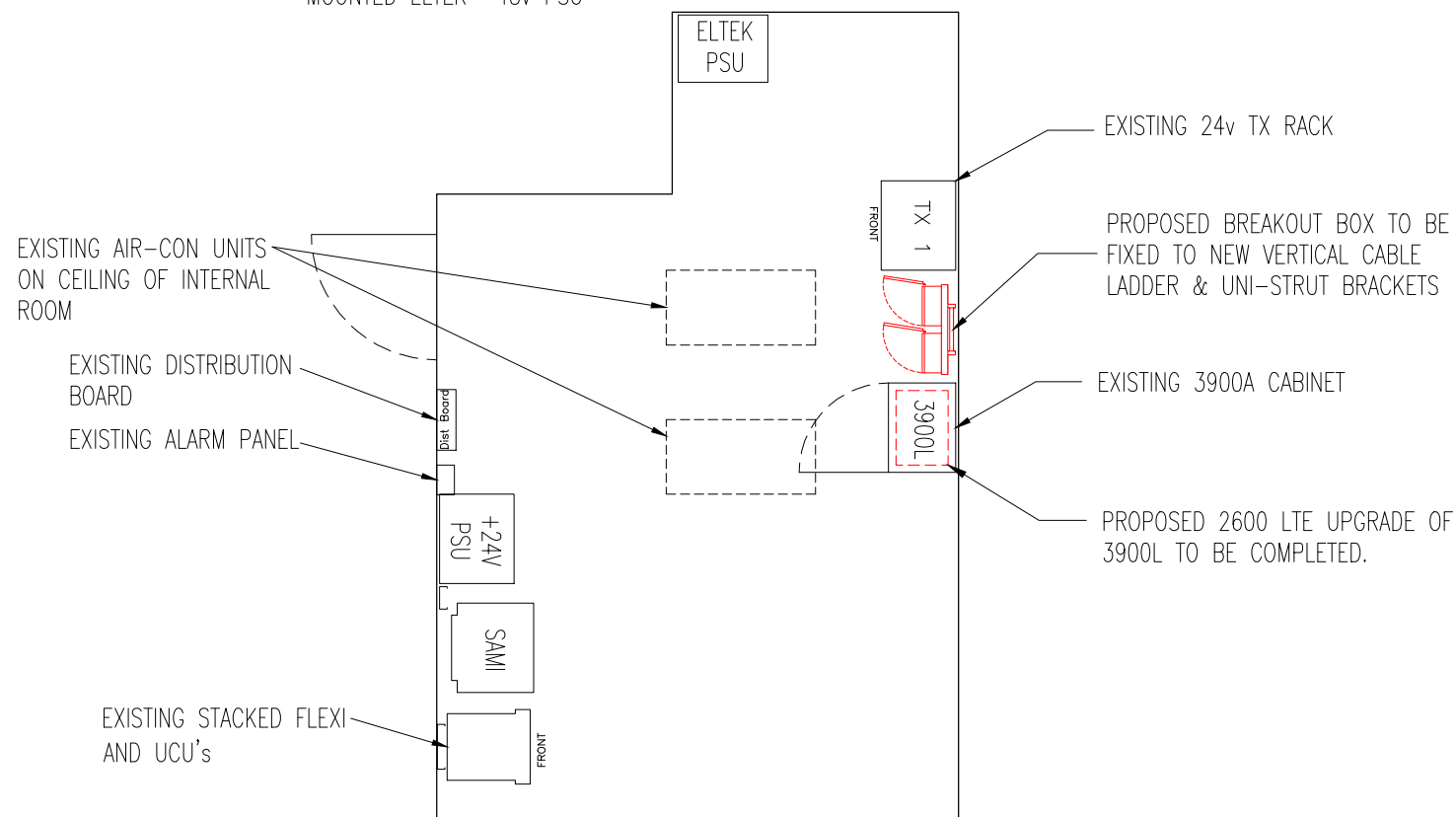
SCALE 1:50

EXISTING UMTS LNA's ARE TO BE REPLACED WITH WIDEBAND LNA's

DESIGN CHECKS TO BE CARRIED OUT ON SUPPORT POLES PRIOR TO ANTENNA SWAP

No.	Revision	Date	By	ckd
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EXISTING EF2S FLOOR MOUNTED ELTEK -48v PSU



### EQUIPMENT LAYOUT

SCALE 1:50



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**PROPOSED TELECOMMUNICATIONS**  
ROOFTOP UPGRADE  
EQUIPMENT LAYOUT

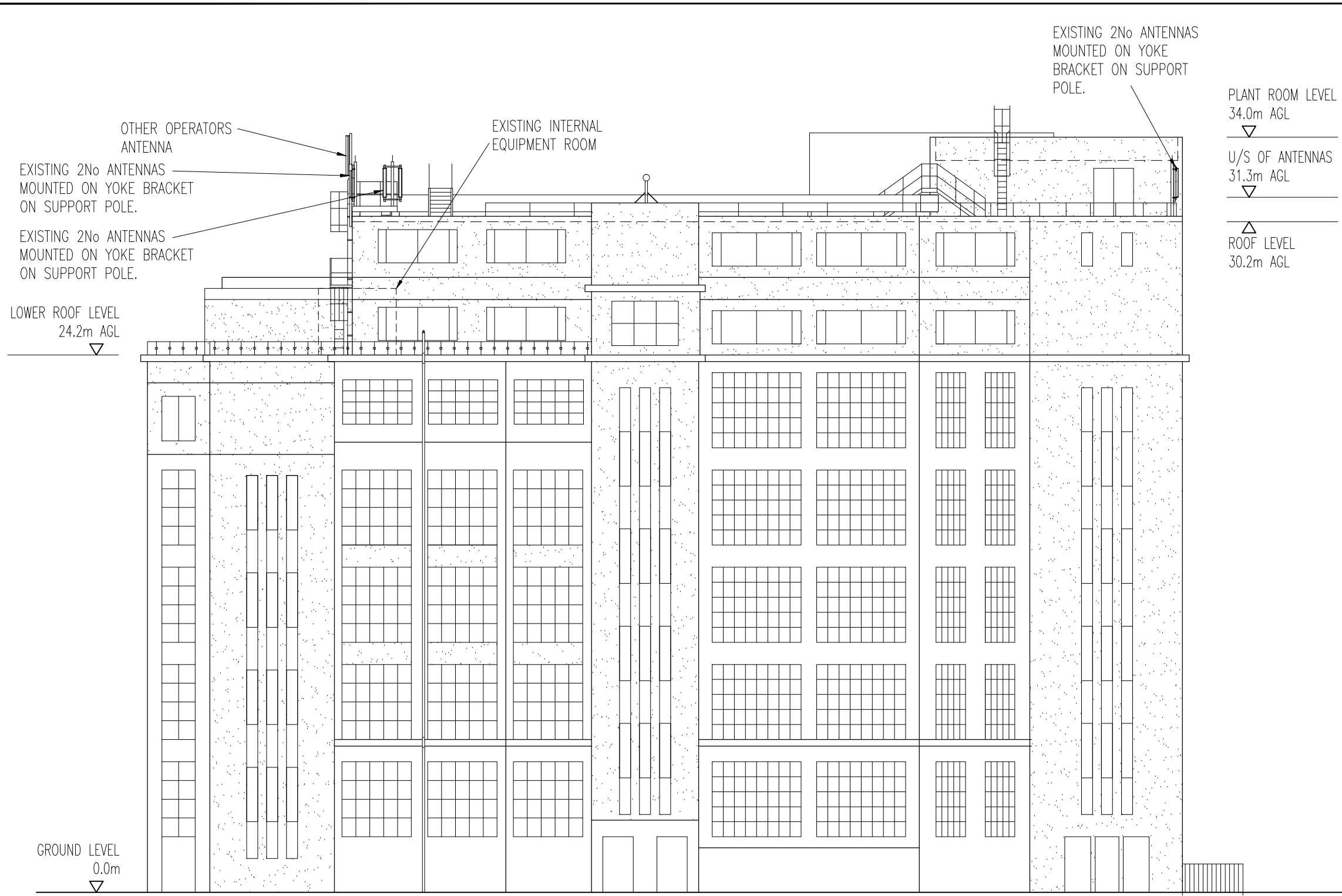
Purpose of Issue:  
**PLANNING**

Drawing No:  
**98528 - 03**

Cell No: **98528** Site No: **788847**

Issue:	Scale: AS STATED	Ch'd: PS	Date: 08.09.14
E	Drn: MW	Date: 04.09.14	App: PS Date: 08.09.14

100mm  
50mm  
10mm  
A3



EXISTING NORTH ELEVATION  
SCALE 1:200

E	EXISTING ELEVATION ADDED.	10.02.15	JPR	PS
D	CELL 1 & 2 RRHs RELOCATED	12.01.15	JPR	PS
C	REPLACEMENT FREESTANDING FRAME ADDED AT CELL 2.	12.01.15	JPR	PS
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LONDON, NW1 7RB**

Title:  
**PROPOSED TELECOMMUNICATIONS  
ROOFTOP UPGRADE  
EXISTING SITE ELEVATION**

Purpose of Issue:  
**PLANNING**

Drawing No:  
**98528 - 04**

Cell No: **98528** Site No: **788847**

Issue:	Scale: AS STATED	Ch'd: PS	Date: 08.09.14
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NEW EXTENSION POLES TO BE INSTALLED ON ALL 3 MAIN SUPPORT POLES AND YOKE BRACKETS LIFTED BY 700mm.

EXISTING ANTENNA TO BE RETAINED.

OTHER OPERATORS ANTENNA

EXISTING GSM ANTENNAS TO BE REPLACED WITH NEW 6-PORT ANTENNAS.

PROPOSED 2600 LTE UPGRADE OF 3900L IN EXISTING EQUIPMENT ROOM TO BE COMPLETED.

PLANT ROOM LEVEL 34.0m AGL

EXISTING GSM ANTENNA TO BE REPLACED WITH NEW 6-PORT ANTENNA.

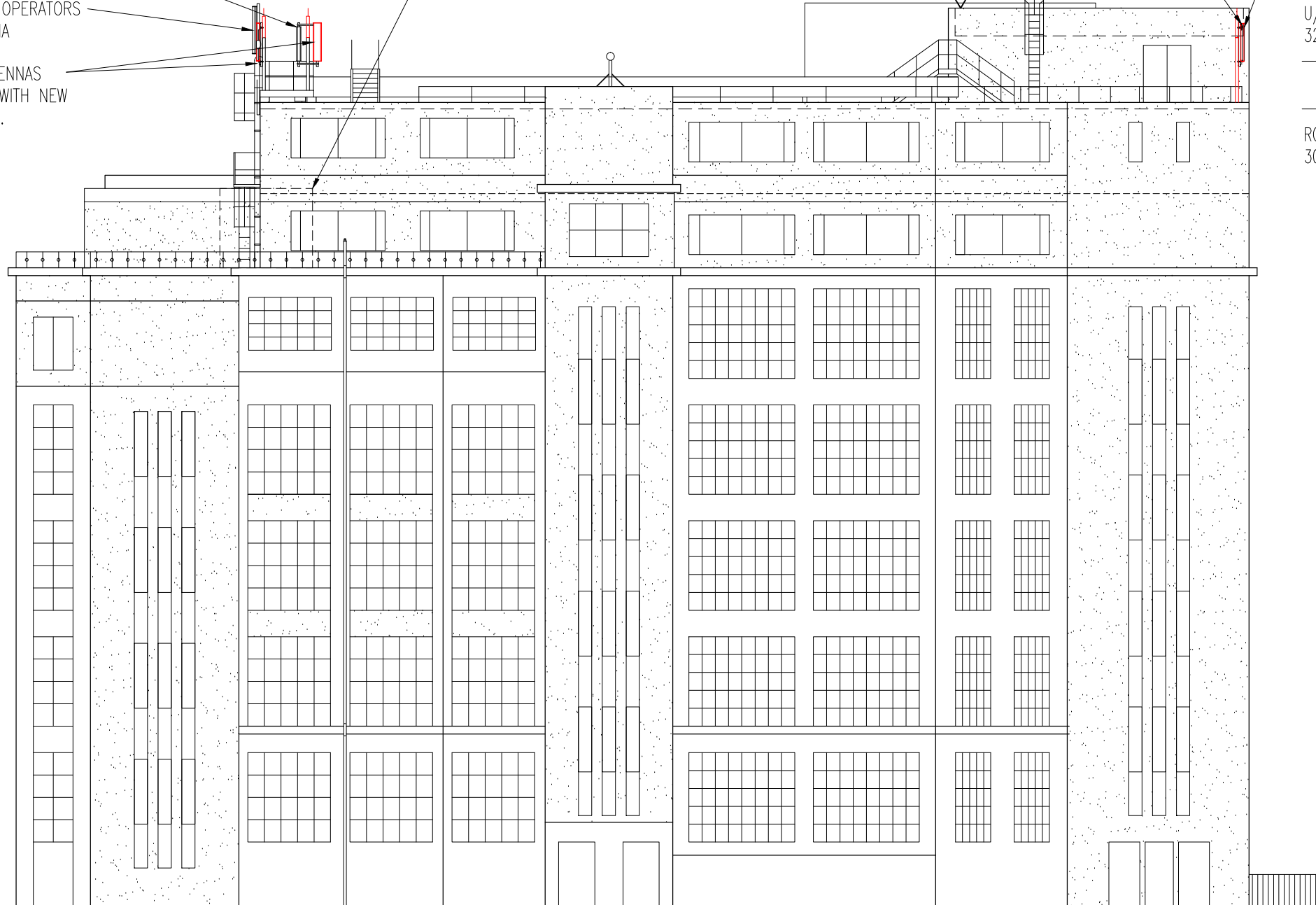
EXISTING UMTS ANTENNA TO BE RETAINED.

U/S OF ANTENNAS 32.0m AGL

ROOF LEVEL 30.2m AGL

LOWER ROOF LEVEL 24.2m AGL

GROUND LEVEL 0.0m



PROPOSED NORTH ELEVATION

SCALE 1:200

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Title:  
**PROPOSED TELECOMMUNICATIONS  
ROOFTOP UPGRADE  
PROPOSED SITE ELEVATION**

Purpose of Issue:  
**PLANNING**

Drawing No:  
**98528 - 05**

Cell No: **98528** Site No: **788847**

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E	Drn: MW Date: 04.09.14	App: PS	Date: 08.09.14

100mm  
50mm  
10mm  
A3

ANTENNA DETAILS

PROPOSED	ORIENT	BASE ANT. HEIGHT (m) AGL	ANTENNA TYPE	RET REQ'D	OVERALL FEEDER LENGTH	ANTENNA JUMPER LENGTH	OVERALL SYSTEM LOSS	MAIN FEEDER TYPE	TMA REQ'D	COMMENTS
C1	330	31.3	KAT 742215	No	EX	0.5	EX	7-50	EX	REPLACE
C2	120	31.3	KAT 742215	No	EX	0.5	EX	7-50	EX	REPLACE
C3	240	31.3	KAT 742215	No	EX	0.5	EX	7-50	EX	REPLACE
uA1/eA1	330	31.3	KAT 742215	No	65	0.5	3.30	7-50	KAELUS TMA2053	RETAIN
uB1/eB1	120	31.3	KAT 742215	No	64	0.5	3.27	7-50	KAELUS TMA2053	RETAIN
uC1/eC1	240	31.3	KAT 742215	No	88	0.5	4.03	7-50	KAELUS TMA2053	RETAIN

EXISTING ANTENNA TABLE

EXISTING ANTENNA (742215) SIZE (mm): 1314h x 155w x 92d

PROPOSED ANTENNA (ATR4518R3) SIZE (mm): 1445h x 299w x 109d

TRANSMISSION DISH DETAILS

DISH ID	D1 CO		
DISH SIZE	300		
HEIGHT m AGL	31.0		
POLE TAG REF	TBA		
BEARING *EGN	356.82		
SITE LINK	TBA		
SITE NAME	CENTENARY HOUSE		
TNE No.	TBA		
ML No.	91015		
RADIO TYPE	TBA		
POLARITY	TBA		

Key to Dish Status

CO: Commissioned/Installed transmission dish

PL: Planned transmission dish with Landlords & Planning consent

Reserved: Approved transmission dish for future requirement

Proposed: New transmission dish awaiting Landlords & Planning consent

HCO: Replacement of existing transmission dish with Landlords & Planning consent

DISH TABLE

ANTENNA DETAILS

ANTENNA	FREQUENCY	ORIENT	BASE ANT. HEIGHT (m) AGL	ANTENNA TYPE	No. OF PORTS	RET REQ'D	FEEDER TYPE	FEEDER QTY	OVERALL FEEDER LENGTH	BOTTOM HYBRID TAIL LENGTH	DC/FIBRE TRUNK LENGTH	TOP HYBRID TAIL LENGTH	RRH	RRH - MHA JUMPER LENGTH	MHA TYPE	ANTENNA JUMPER LENGTH	OVERALL SYSTEM LOSS
C1	1800	330	32.0	ATR4518R3	6	Yes	LDF5-50	2	EX	-	-	-	-	-	EX	EX	EX
EeA1	2600					Yes	FIBRE	1	-	5	75	5	RRH	-	-	2.0	-
-	-					-	-	-	-	-	-	-	-	-	-	-	-
C2	1800	120	32.0	ATR4518R3	6	Yes	LDF5-50	2	EX	-	-	-	-	-	EX	EX	EX
EeB1	2600					Yes	FIBRE	1	-	5	SHARED WITH C1	2	RRH	-	-	2.0	-
-	-					-	-	-	-	-	-	-	-	-	-	-	-
C3	1800	240	32.0	ATR4518R3	6	Yes	LDF5-50	2	EX	-	-	-	-	-	EX	EX	EX
EeC1	2600					Yes	FIBRE	1	-	5	100	2	RRH	-	-	3.0	-
-	-					-	-	-	-	-	-	-	-	-	-	-	-
uA1/HeA1	2100/1800	330	32.0	742215	2	No	LDF5-50	2	EX	-	-	-	-	EX	EX	EX	
uB1/HeB1	2100/1800	120	32.0	742215	2	No	LDF5-50	2	EX	-	-	-	-	EX	EX	EX	
uC1/HeC1	2100/1800	240	32.0	742215	2	No	LDF5-50	2	EX	-	-	-	-	EX	EX	EX	

NOTE: FEEDER LENGTH SHOWN IS ONLY APPROXIMATE AND SHOULD BE CHECKED BY RIGGING CONTRACTOR PRIOR TO WORK COMMENCING

PROPOSED ANTENNA TABLE

NOMINATION COMPLIANCE

THIS DRAWING COMPLIES IN FULL WITH THE NOMINATION ISSUED ON: 19.06.2014

No.	Revision	Date	By	ckd
E	EXISTING ELEVATION ADDED.	10.02.15	JPR	PS
D	CELL 1 & 2 RRHs RELOCATED	12.01.15	JPR	PS
C	REPLACEMENT FREESTANDING FRAME ADDED AT CELL 2.	12.01.15	JPR	PS
B	EXTENSION POLES ADDED. DEMARCATION HANDRAIL ADDED.	11.11.14	JPR	PS
A	PLANNING ISSUE.	08.09.14	MW	PS



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Title:  
**PROPOSED TELECOMMUNICATIONS  
ROOFTOP UPGRADE  
ANTENNA DETAILS**

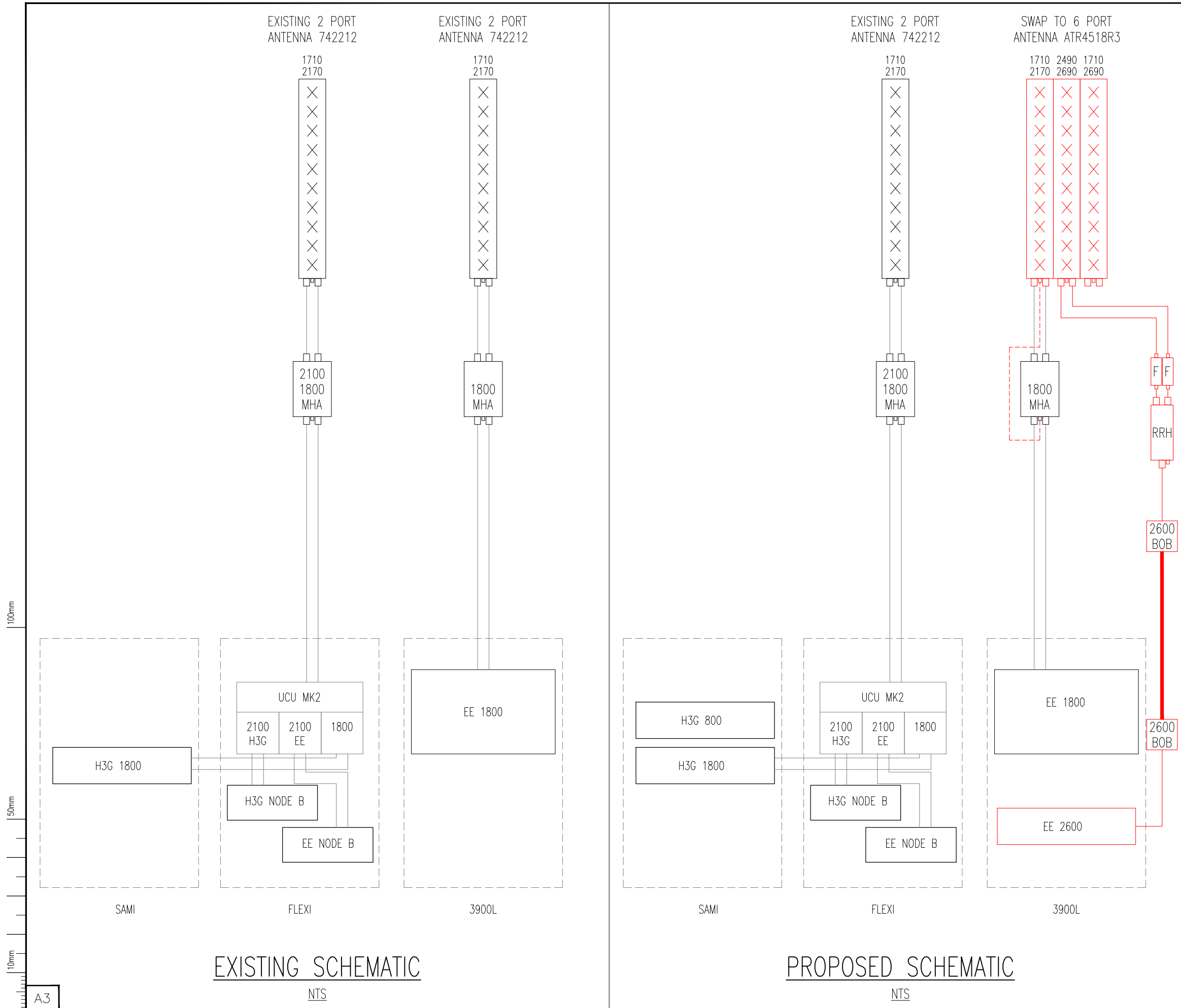
Purpose of Issue:  
**PLANNING**

Drawing No:  
**98528 - 06**

Cell No: **98528** Site No: **788847**

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**PROJECT – EE LTE 2600**  
SCHEME BASED ON SITE DESIGN AND DEPLOYMENT GUIDELINES V4.0

BOB DEPLOYMENT SCENARIO	3
TOTAL No. OF BOB's	2 LABELLED BY FREQ
RF OPTION	9
COVENTRY CONFIG.	B5w/ii/1
NOM/RDS REVISION	NOM V1.0

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Title:  
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ROOFTOP UPGRADE  
EQUIPMENT SCHEMATIC**

Purpose of Issue:  
**PLANNING**

Drawing No:  
**98528 – 07**

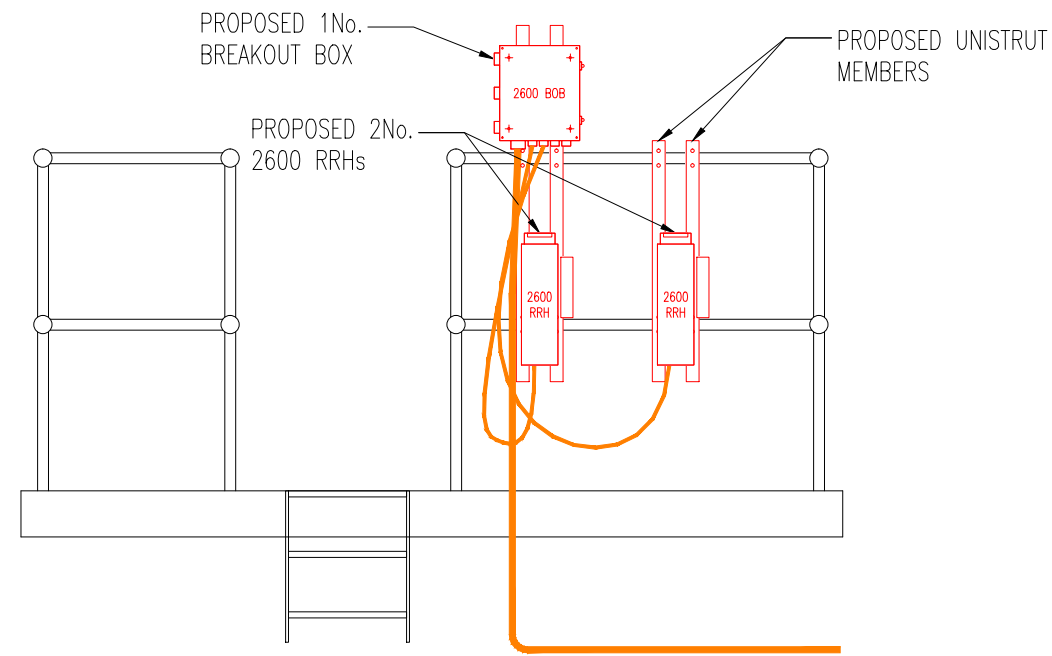
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100mm  
50mm  
10mm  
A3

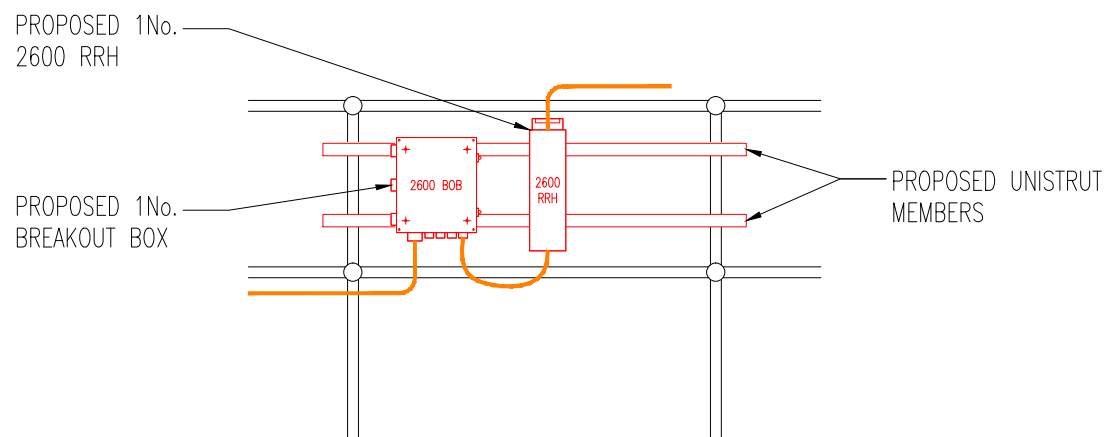
**EXISTING SCHEMATIC**  
NTS

**PROPOSED SCHEMATIC**  
NTS



PROPOSED EQUIPMENT ELEVATION CELLS 1 & 2

SCALE 1:25



PROPOSED EQUIPMENT ELEVATION CELL 3

SCALE 1:25

E	EXISTING ELEVATION ADDED.	10.02.15	JPR	PS
D	CELL 1 & 2 RRHs RELOCATED	12.01.15	JPR	PS
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Title:  
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ROOFTOP UPGRADE  
EQUIPMENT DETAILS

Purpose of Issue:  
PLANNING

Drawing No:  
98528 - 08

Cell No: 98528 Site No: 788847

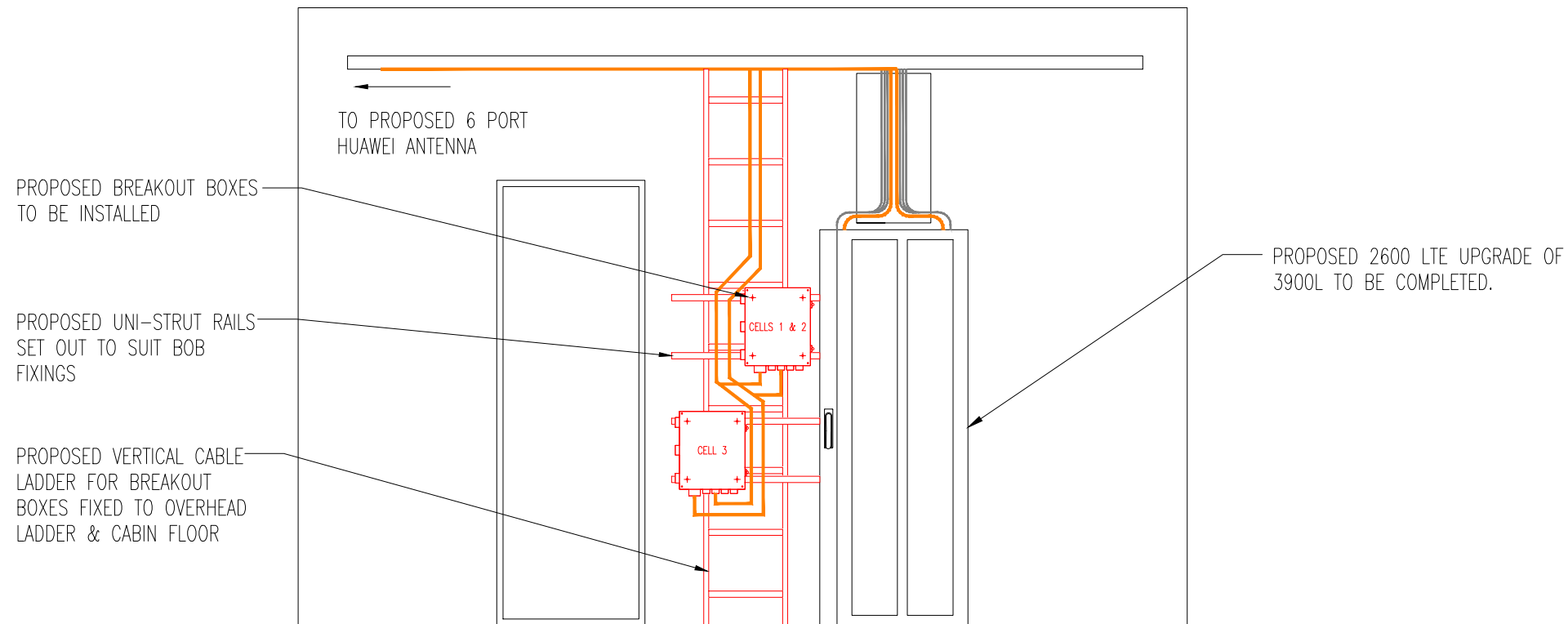
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100mm

50mm

10mm





PROPOSED INTERNAL ROOM ELEVATION

SCALE 1:25

100mm

50mm

10mm

A3

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HAMPSTEAD ROAD, HAMPSTEAD  
LONDON, NW1 7RB**

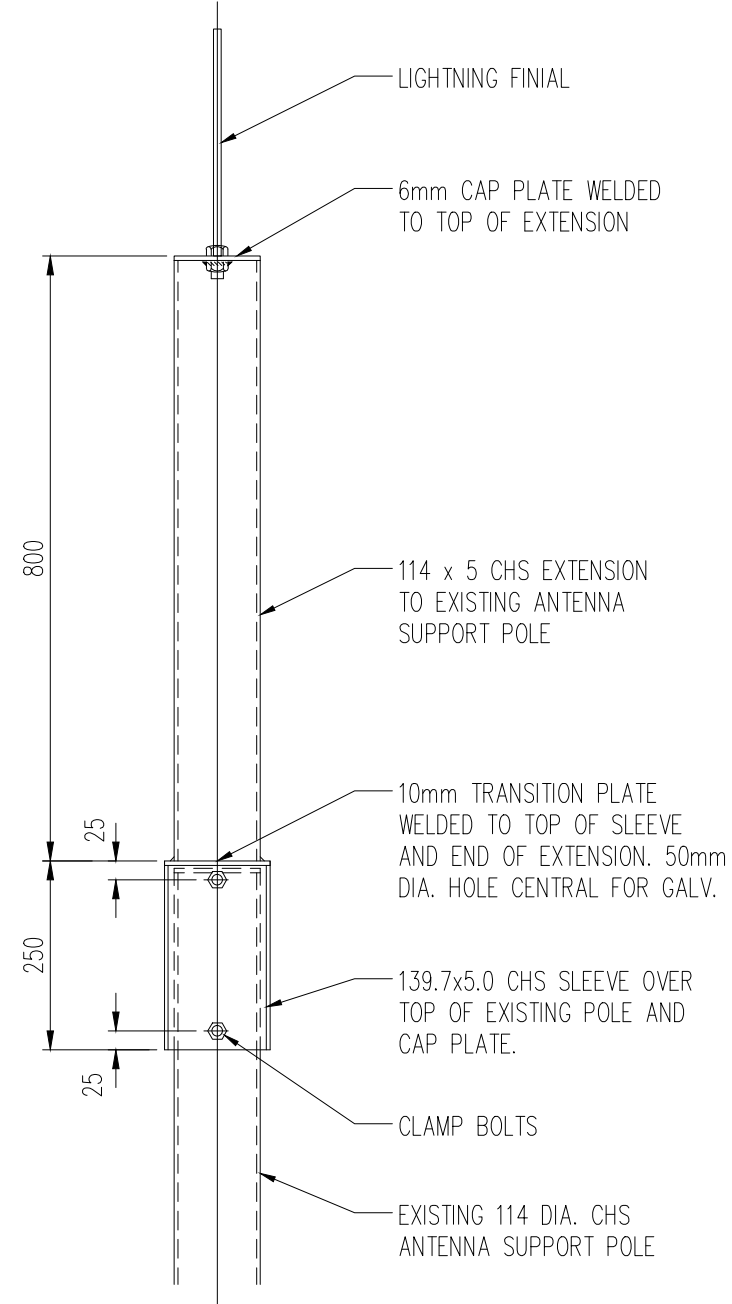
Title:  
**PROPOSED TELECOMMUNICATIONS  
ROOFTOP UPGRADE  
EQUIPMENT DETAILS**

Purpose of Issue:  
**PLANNING**

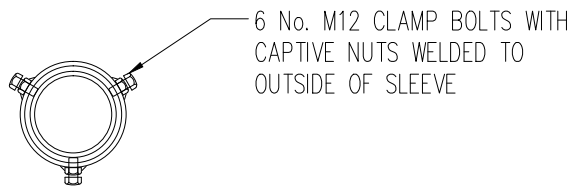
Drawing No:  
**98528 - 09**

Cell No: **98528** Site No: **788847**

Issue:	Scale: AS STATED	Ch'd: PS	Date: 08.09.14
E	Drn: MW Date: 04.09.14	App: PS	Date: 08.09.14



**ELEVATION**  
SCALE 1:10



**PLAN**  
SCALE 1:10

**114.3 CHS ANTENNA POLE  
EXTENSION (3No REQ'D)**

LIGHTNING FINIAL

6mm CAP PLATE WELDED TO TOP OF EXTENSION

114 x 5 CHS EXTENSION TO EXISTING ANTENNA SUPPORT POLE

10mm TRANSITION PLATE WELDED TO TOP OF SLEEVE AND END OF EXTENSION. 50mm DIA. HOLE CENTRAL FOR GALV.

139.7x5.0 CHS SLEEVE OVER TOP OF EXISTING POLE AND CAP PLATE.

CLAMP BOLTS

EXISTING 114 DIA. CHS ANTENNA SUPPORT POLE

6 No. M12 CLAMP BOLTS WITH CAPTIVE NUTS WELDED TO OUTSIDE OF SLEEVE

NOTE: ALL FIXINGS TO BE PROPRIETARY HOT FORMED HOT DIP GALVANISED WITH FLAT AND SPRING WASHERS

NOTE: ALL WORKS ARE TO BE CARRIED OUT STRICTLY IN ACCORDANCE WITH THE DESIGN GUIDE.

NOTE: ANY DEVIATIONS FROM THE DETAILS ON THIS DRAWING OR THE DESIGN GUIDE MUST BE APPROVED BY WHP PRIOR TO COMMENCEMENT OF THE WORKS.

**STEELWORK NOTES**

1. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH BS 5950. THE STRUCTURAL USE OF STEELWORK IN BUILDINGS.
2. STRUCTURAL STEELWORK SECTIONS TO BE GRADE S275 STEEL IN ACCORDANCE WITH BS EN 10025.
3. BOLTS TO BE GRADE 8.8 UNLESS NOTED OTHERWISE.
4. WELDS TO BE 6mm CONTINUOUS FILLET, UNLESS NOTED OTHERWISE.
5. CONTRACTOR MUST VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING ANY WORK OR MAKING ANY SHOP DRAWINGS. NO DIMENSIONS TO BE SCALED FROM DRAWINGS. DISCREPANCIES MUST BE REPORTED TO THE ENGINEER PRIOR TO PROCEEDING.
6. ALL STEELWORK IS TO BE BLAST CLEANED TO SA2.5, AND HOT DIPPED GALVANIZED TO A THICKNESS OF 140 MICRONS IN ACCORDANCE WITH BS 729.
7. GALVANIZED NUTS AND BOLTS TO BE USED (U.O.N.).
8. STEELWORK WHICH HAS BEEN DAMAGED ON SITE TO BE TOUCHED UP, WITH COLD GALVANIZING (GALVAFROID OR SIMILAR APPROVED) AND ONLY TO THE ENGINEERS APPROVAL.
9. BOLTED CONNECTIONS TO HAVE A MINIMUM CONNECTION OF 2No M16 BOLTS, UNLESS NOTED OTHERWISE.
10. FABRICATION DRAWINGS ARE TO BE SUBMITTED TO W.H.P. PRIOR TO MANUFACTURE OF STEELWORK.
11. NEW OPEN MESH GRATING TO BE LIONWELD KENNEDY W100 TYPE WITH 25x3 THK BEARING BARS (GALVANISED).

**GENERAL NOTES**

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2. THIS DRAWING IS NOT TO BE SCALED, IF IN DOUBT ASK
3. ALL PROPRIETARY PRODUCTS TO BE USED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS
4. ALL EXCAVATIONS ARE TO BE INSPECTED BY THE ENGINEER PRIOR TO CONCRETING. CONTRACTOR TO GIVE THE ENGINEER 24 HOURS NOTICE TO ALLOW INSPECTION TO BE CARRIED OUT
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRUCTURE DURING THE COURSE OF THE WORKS.

No.	Revision	Date	By	ckd
E	EXISTING ELEVATION ADDED.	10.02.15	JPR	PS
D	CELL 1 & 2 RRHs RELOCATED	12.01.15	JPR	PS
C	REPLACEMENT FREESTANDING FRAME ADDED AT CELL 2.	12.01.15	JPR	PS
B	EXTENSION POLES ADDED. DEMARCATION HANDRAIL ADDED.	11.11.14	JPR	PS
A	PLANNING ISSUE.	08.09.14	MW	PS

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Site Name & Address:  
**GREATER LONDON HOUSE  
HAMPSTEAD ROAD, HAMPSTEAD  
LONDON, NW1 7RB**

Title:  
**PROPOSED TELECOMMUNICATIONS  
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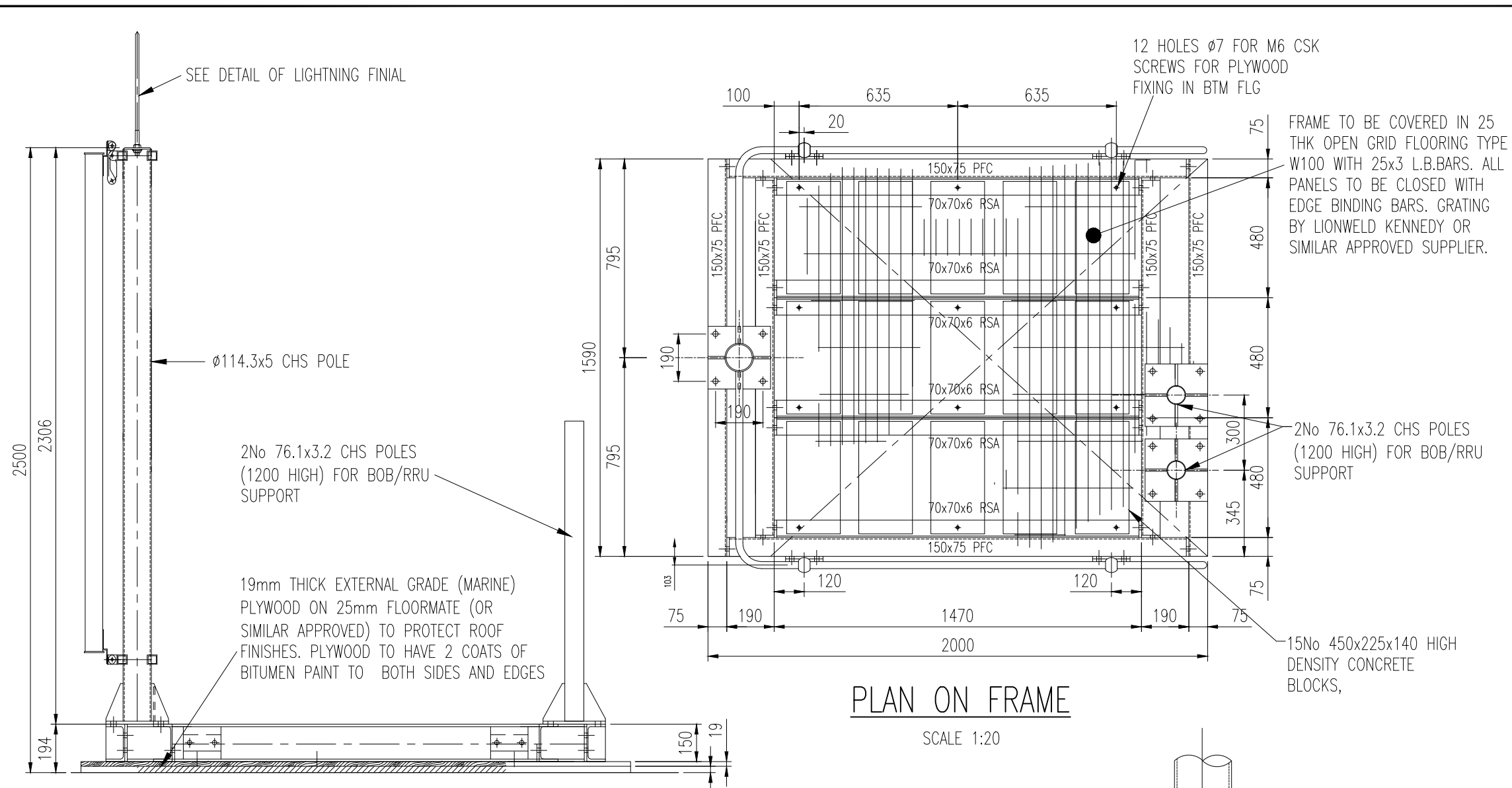
Purpose of Issue:  
**PLANNING**

Drawing No:  
**98528 - 10**

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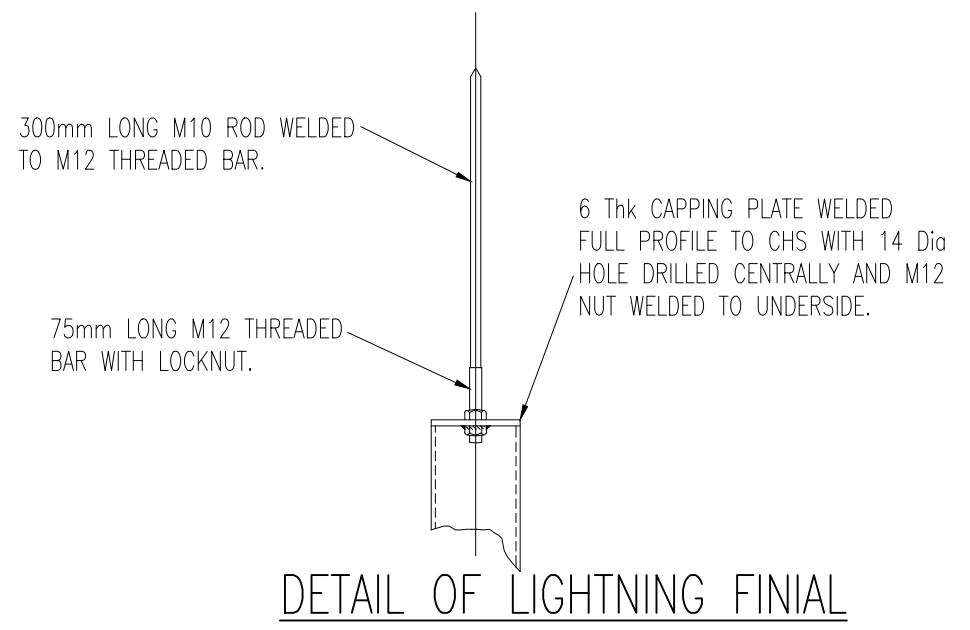
100mm  
50mm  
10mm  
A3



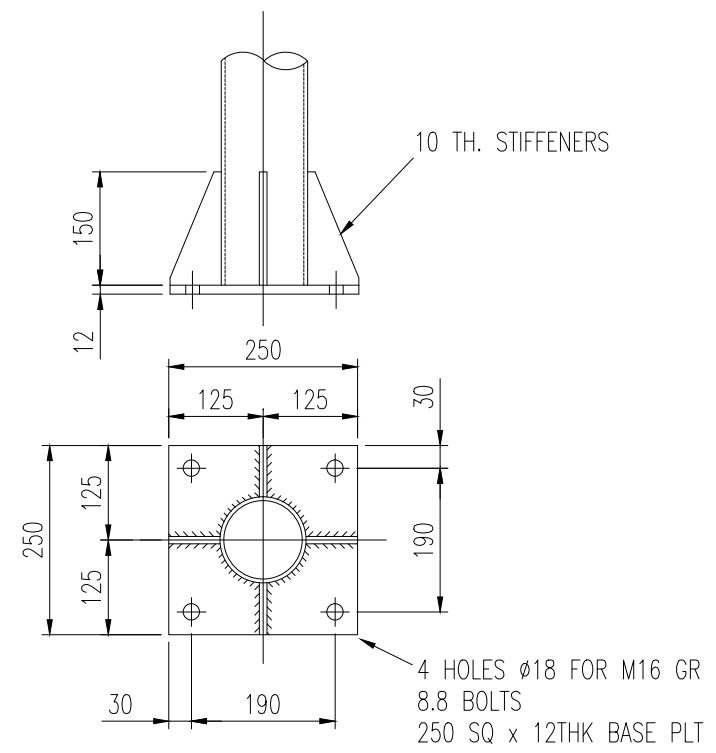
PLAN ON FRAME  
SCALE 1:20



SIDE ELEVATION ON POLE MOUNT FRAME  
SCALE 1:20



DETAIL OF LIGHTNING FINIAL  
SCALE 1:10



DETAIL OF POLE BASE (TYP)  
SCALE 1:10

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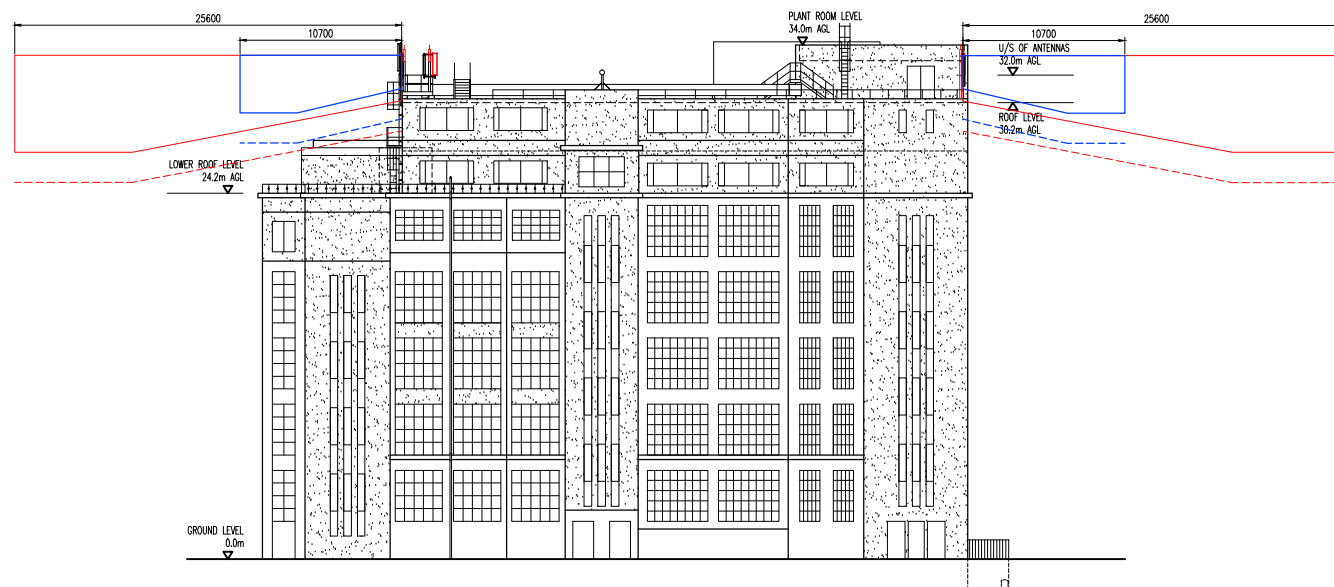
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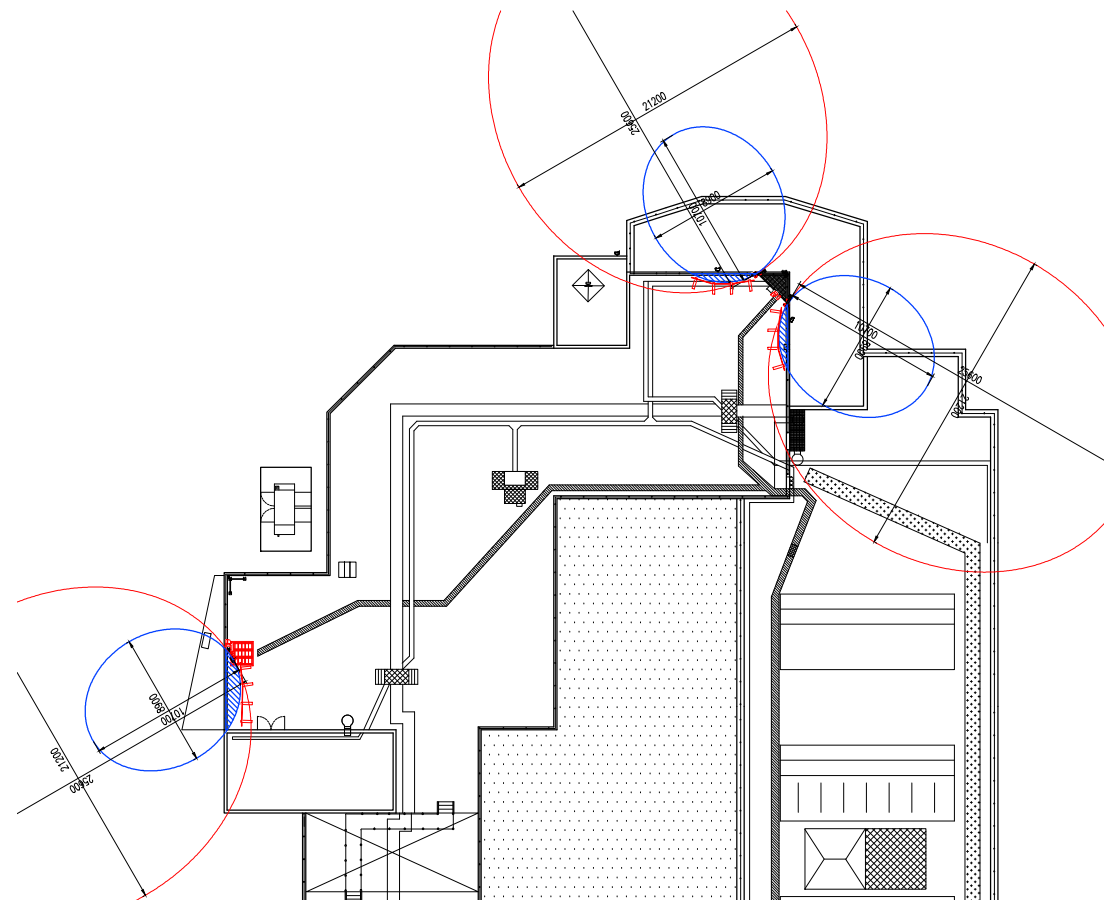
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**ELEVATION**  
SCALE 1:250



**PLAN**  
SCALE 1:250

 AREA OF OCCUPATIONAL NON-COMPLIANCE

ICNIRP EXCLUSION ZONES ARE BASED ON VALUES WITHIN THE MBNL ICNIRP COMPLIANCE CERTIFICATION DOCUMENT GSDD008 R6.0

EXISTING SITE TYPE RT (GSM/UMTS)  
CORNERSTONE ANTENNA WITHIN 50m HORIZ AND 4m VERT.  
O2 (SITE ID 9287) ON SAME ROOF.  
VODAFONE (SITE ID 23013) ON SAME ROOF.  
USE VALUES FOR ALL OPERATORS

PROPOSED WORKS: EE LTE UPGRADE  
ANTENNA TYPE: 742212  
ATR4518R3

BEARINGS: 330/120/240  
ACTUAL BUILD HEIGHT: 32.0m  
FRONT DISTANCE PUBLIC: 25.6m  
FRONT DISTANCE OCCUPATIONAL: 10.7m  
PUBLIC BUILD HEIGHT: 6.4m  
COMPLIANCE DISTANCES BASED ON THE FOLLOWING EQUIPMENT POWER:  
800MHz - 80W  
1800MHz - 320W  
2100MHz - 220W  
2600MHz - 80W

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Drawing No:  
**98528 - 12**

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	Drn:	MW	Date:	04.09.14	App:	PS
		Date:	08.09.14			

100mm  
50mm  
10mm  
A3