DRAWING REGISTER

		DATE OF ISSUE									
		06.09.2012	03.10.2012								
PLANNING DRAWINGS											
000	DRAWING REGISTER	A	B								
100	SITE LOCATION MAPS	A	B								
200	SITE LAYOUT PLAN	A	B								
300	SITE ELEVATION	A	B								
400	DISH PLANS	A	B								
500	EQUIPMENT SCHEDULE	A	B								
CONSTRUCTION DRAWINGS											
600	CONSTRUCTION NOTES	A	B								
601	DISH SUPPORT DETAILS	A	B								
DISTRIBUTION											
MLL TELECOM - SHAUNE BRIDGEMAN		E	E								
WHP - INTERNAL ISSUE - TOM GALLIVAN		E	E								
WHP - INTERNAL ISSUE - MIKE CANN		E	E								

E - ELECTRONIC ISSUE

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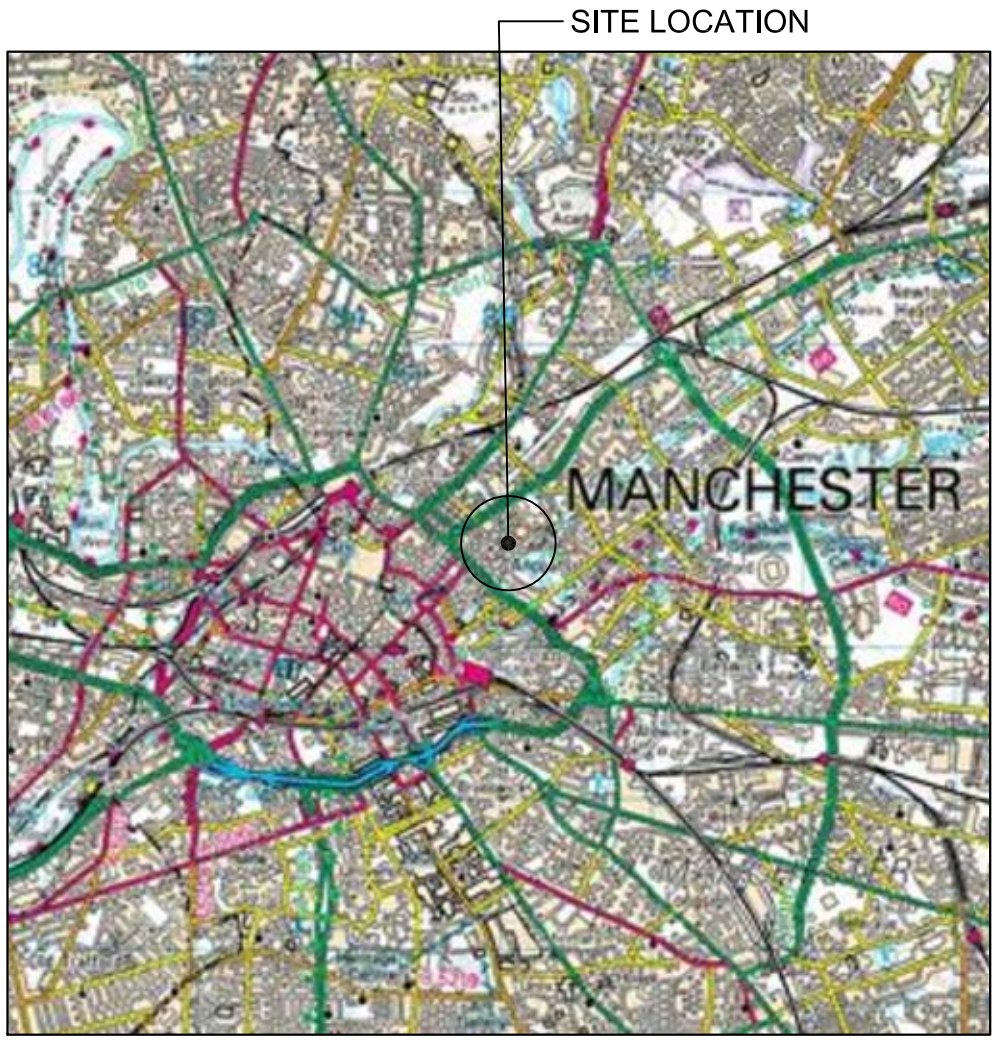
CELL ID:
79294

CELL NAME:
FLINT GLASS WHARF

CELL ADDRESS:
35 RADIUM STREET
ANCOATS
MANCHESTER
M4 6JW

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SITE LOCATION

SCALE 1:50000

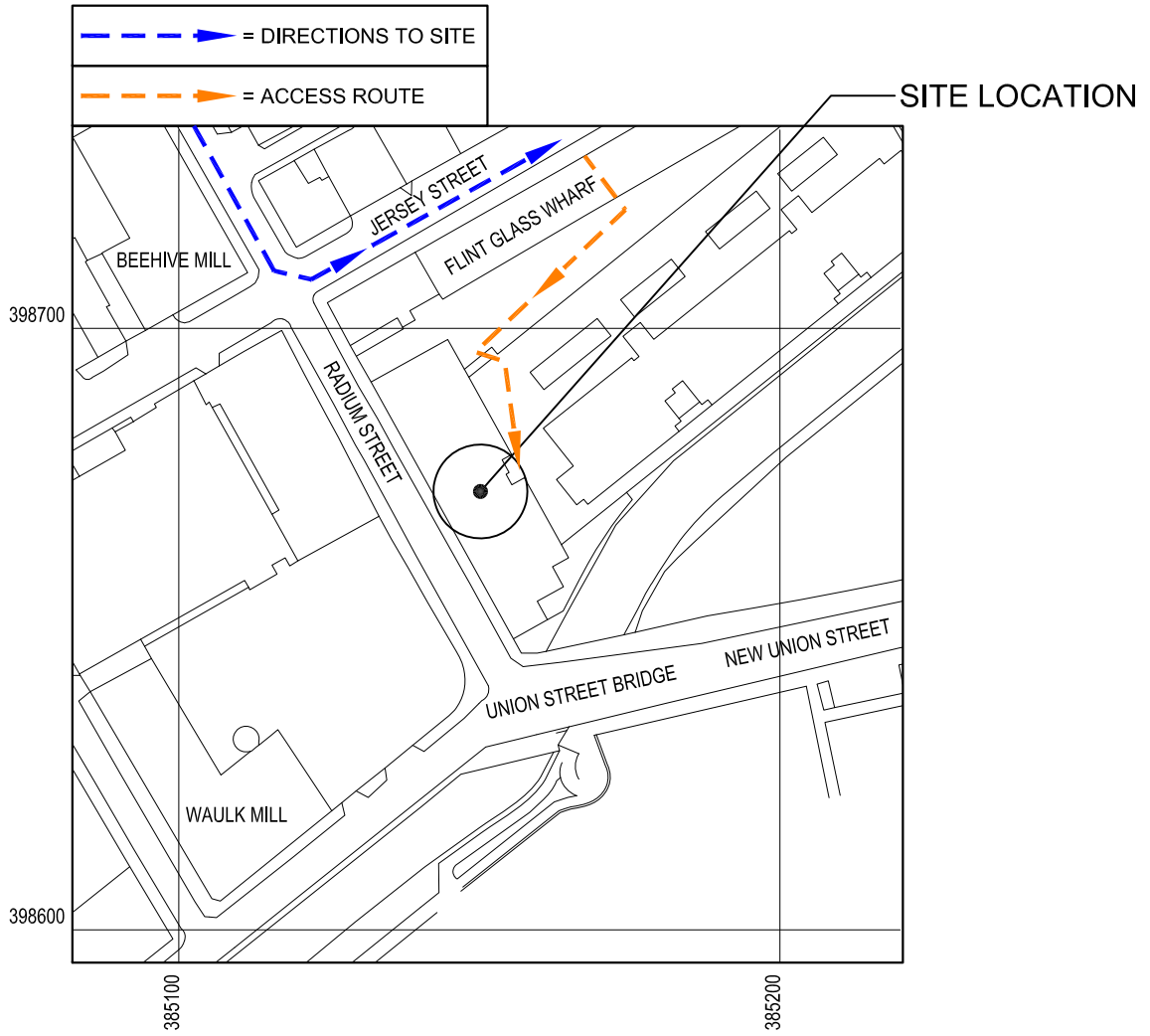
0 0.5km 1km 1.5km 2km 2.5km

1:50000 SCALE BAR



SITE PHOTO

N



SITE LOCATION

SCALE 1:1250

0 10m 20m 30m 40m 50m 60m 70m

1:1250 SCALE BAR

BASED ON ORDNANCE SURVEY AT 1:1250 WITH THE PERMISSION OF THE CONTROLLER OF HER MAJESTY'S STATIONERY OFFICE. ©CROWN COPYRIGHT. LICENCE No. 100020449

Notes:

1. All dimensions are in millimetres unless stated otherwise

N.G.R. | Easting: 385149 Northing: 398670

Directions:

Exit M60 at jct 20 onto A664. Stay on the A664. Turn left onto A6010 Queens Road. Turn right onto Hulme Hall Lane. Turn left at A62 Oldham Road and then left at Radium Street. Site is on the left after Jersey Street.

REV	MODIFICATION	BY	CH	DATE
B	Drawings revised to include proposed Cornerstone scheme	DA	PSH	03.10.2012
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Cell Name	Option
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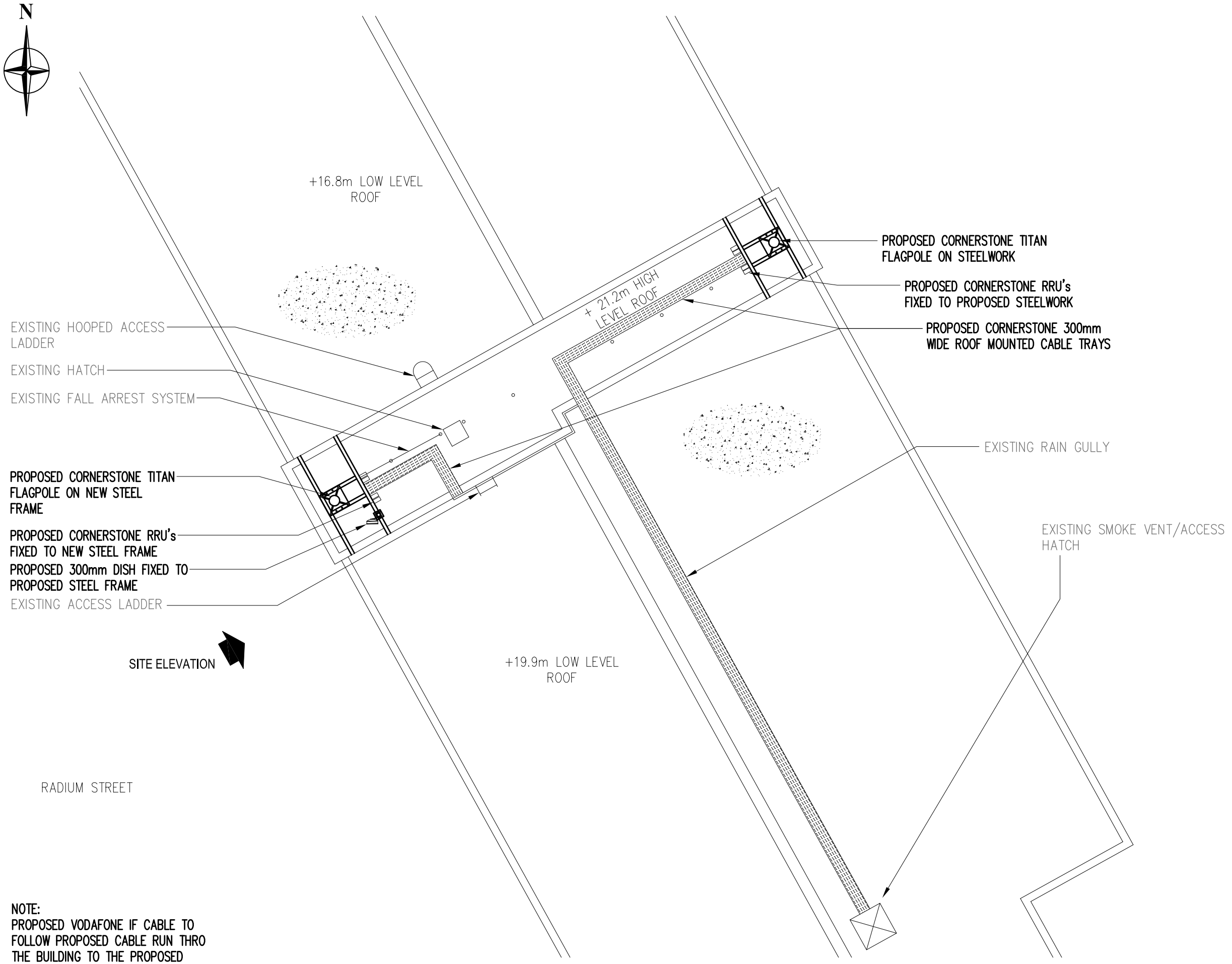
Site Address / Contact Details:

35 RADIUM STREET
ANCOATS
MANCHESTER
M4 6JW

Drawing Title: SITE LOCATION MAPS

Purpose of Issue: PLANNING

Drawing Number:	Series:			
100	-			
Scale: AS SHOWN	Drawn By: PSH	Date: 05.09.12	Issue: B	
Checked By: GR	Date: 05.09.12	Approved By: SPH	Date: 05.09.12	



NOTE:
PROPOSED VODAFONE IF CABLE TO FOLLOW PROPOSED CABLE RUN THRO THE BUILDING TO THE PROPOSED INTERNAL ROOM IN THE CAR PARK

SITE PLAN
SCALE 1:100

Notes:
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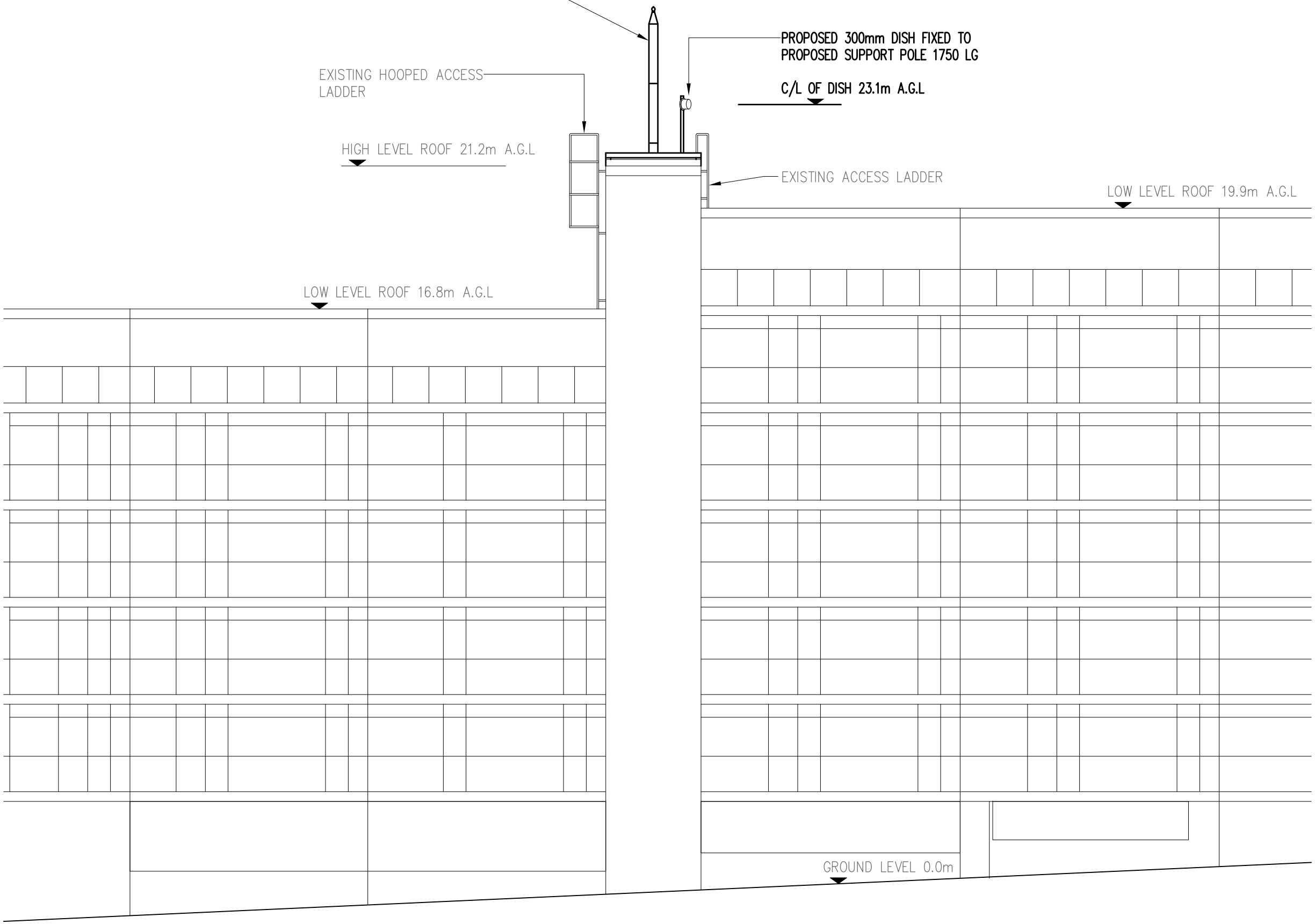
Site Address / Contact Details:

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Drawing Title: SITE LAYOUT PLAN

Purpose of Issue: PLANNING

Drawing Number:	Series:			
200	-			
Scale: AS SHOWN	Drawn By: PSH	Date: 05.09.12	Issue: B	
Checked By: GR	Date: 05.09.12	Approved By: SPH	Date: 05.09.12	



SITE ELEVATION
SCALE 1:125

Notes:
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Site Address / Contact Details:

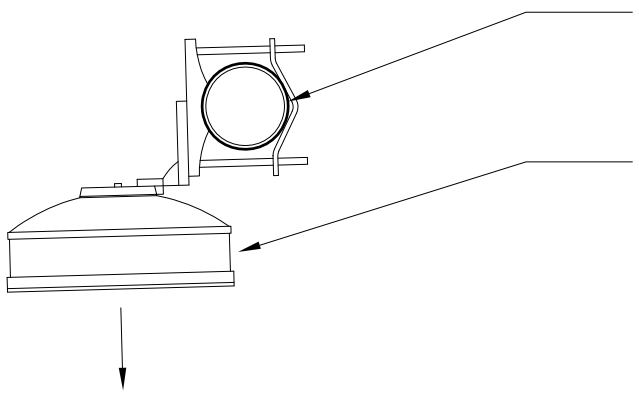
35 RADIUM STREET
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MANCHESTER
M4 6JW

Drawing Title: SITE ELEVATION

Purpose of Issue: PLANNING

Drawing Number:	Series:			
300	-			
Scale: AS SHOWN	Drawn By: PSH	Date: 05.09.12	Issue: B	
Checked By: GR	Date: 05.09.12	Approved By: SPH	Date: 05.09.12	

N



DISH LAYOUT
SCALE 1:10

Notes:
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Drawing Title: DISH PLANS

Purpose of Issue: PLANNING

Drawing Number:	Series:			
400	-			
Scale: AS SHOWN		Drawn By: PSH	Date: 05.09.12	Issue: B
Checked By: GR	Date: 05.09.12	Approved By: SPH	Date: 05.09.12	

EXISTING DISH KEY

	OPERATOR	DISH REF	DISH DIA	BEARING	HEIGHT TO CENTRE (AGL)	END SITE	VFE No.	LOCATION OF ODU
–	–	–	–	–	–	–	–	–

PROPOSED DISH KEY

	OPERATOR	DISH REF	DISH DIA	BEARING	HEIGHT TO CENTRE (AGL)	END SITE	VFE No.	LOCATION OF ODU	COMMENTS
PROPOSED	**VODAFONE**	**D1**	**300**	**178.43°**	**23.1m**	**35501**	**CSB00187**	**INTEGRAL**	**FIXED TO PROPOSED STEEL FRAME**

SUPPORT STRUCTURE SCHEDULE

EXISTING/ PROPOSED	OPERATOR	MANUFACTURER	TYPE	HEIGHT	COLOUR	STATUS	COMMENTS
PROPOSED	VODAFONE	N/A	150x90 PFC	21.2m	GALVANISED	PROPOSED	PROPOSED STEEL FRAME

EQUIPMENT SCHEDULE

EXISTING/ PROPOSED	OPERATOR	MANUFACTURER	TYPE	SIZE	COLOUR	STATUS	COMMENTS
PROPOSED	VODAFONE/O2	HUTCHINSON	2 x TITAN 311	4.5m	WHITE	PROPOSED	PROPOSED INTERNAL ROOM

Notes:
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N.G.R. Easting: 385149 Northing: 398670

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Drawing Title: EQUIPMENT SCHEDULE

Purpose of Issue: PLANNING

Drawing Number:	Series:			
500	-			
Scale: AS SHOWN	Drawn By: PSH	Date: 05.09.12	Issue: B	
Checked By: GR / Date: 05.09.12	Approved By: SPH	Date: 05.09.12		

1. GENERAL NOTES

1.1 ALL DIMENSIONS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.

1.2 SITE TO BE PROVIDED WITH ADEQUATE SAFETY SIGNAGE IN ACCORDANCE WITH WITH VODAFONE STANDARD DETAIL DRAWINGS

1.3 REFER TO STANDARD SPECIFICATION FOR FURTHER DETAILS

2. GROUND WORKS NOTES:

2.1 SOFT SPOTS TO BE EXCAVATED AND FILLED WITH MOT TYPE-1 COMPACTED GRANULAR SUB-BASE GRADED IN ACCORDANCE WITH MCHW-1 SERIES 800 (MAX LAYER TO BE 200mm THK).

2.2 FOUNDATION SHOULD BE OF APPROVED SUB GRADE, CAPABLE OF WITHSTANDING MINIMUM BEARING PRESSURE SHOWN (100KN/m^2).

2.3 WHERE GROUND IS FOUND TO BE SOFT, RUNNY, LOOSE, VARYING SIGNIFICANTLY OR WHERE HIGH LEVELS OF SULPHATE ARE PRESENT, THE DESIGN ENGINEER IS TO BE CONSULTED PRIOR TO POURING OF CONCRETE.

2.4 CONTRACTOR SHALL SITE CHECK ALL RELEVANT DIMENSIONS AND LEVELS PRIOR TO CONSTRUCTION AND SHALL BE RESPONSIBLE FOR THE ACCURACY OF ALL WORK AND THE CORRECT SETTING OUT ON SITE.

3. DUCTING NOTES:

3.1 ALL DUCTS TO BE LAID WITH DRAW CORDS. DUCTS TO BE COLOUR CODED, BLACK FOR POWER AND GREY FOR TELECOMS. (UU REC SUPPLIED SITES REQUIRE RED POWER DUCT).

3.2 ALL DUCTS TO BE SEALED WITH EXPANDING FOAM AFTER CABLE INSTALLATION.

3.3 WHERE POSSIBLE ALL DUCTS TO BE LAID WITH A MINIMUM BEND RADIUS OF 600mm.

3.4 TELECOM AND POWER CABLES TO BE LAID IN SEPARATE DUCTS.

3.5 ALL DUCTS TO TERMINATE 50mm ABOVE SLAB LEVEL.

3.6 TELECOM CABLE DUCT TO BE TAKEN 0.5m BEYOND SLAB. LOCATION TO BE MARKED WITH A PEG.

3.7 AC POWER DUCT TO BE TAKEN TO SUIT LOCATION ELECTRICAL METER CABINET.

4. STEELWORK NOTES

4.1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF ALL SITE DIMENSIONS AND THE CORRECT SETTING OUT OF WORK ON SITE.

4.2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL NECESSARY SITE DIMENSIONS AND LEVELS PRIOR TO FABRICATION OF ANY STEELWORK.

4.3 ALL HOT ROLLED STRUCTURAL STEELWORK TO BE GRADE S275JR OR S275J0 TO BSEN 10025-2:2004 ALL HOT FINISHED STRUCTURAL HOLLOW SECTIONS TO BE GRADE S275J0H TO BSEN 10210-1:1994

4.4 ALL BOLTS SHALL BE GRADE 8.8 TO BS4190:2001 AND TO BE HOT DIP GALVANISED TO BS7371-6:1998

4.5 STAINLESS STEEL BOLTS AND NUTS TO BE AUSTENITIC GRADE A4 STRENGTH CLASS 700N/mm^2 TO BS EN ISO 3606:1998

4.6 ALL WELDING SHALL BE IN ACCORDANCE WITH BS5135:1984 AND BS EN 1011-2:2001 AND TESTED IN ACCORDANCE WITH STANDARD BSEN 1290; BSEN 1435; BSEN 1714 AS APPROPRIATE. ALL WELDS TO BE MINIMUM 6mm FILLET WELD (U.N.O.).

4.7 ALL CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE STEELWORK CONTRACTOR. ALL CONNECTIONS TO BE PROVIDED WITH A MINIMUM OF 2 No. BOLTS (U.N.O).

4.8 IF SPLICES ARE REQUIRED FOR TRANSPORTATION, HANDLING OR ERECTION THEY MUST NOT BE FABRICATED AND INSTALLED UNTIL THE ENGINEER HAS APPROVED THEIR LOCATION.

4.9 ALL CONNECTIONS TO BE PROVIDED WITH NYLOK ANTI-ROTATION NUTS OR SPRING WASHERS.

4.10 ALL STEELWORK TO BE GRIT BLASTED TO SA 2.5 TBS4232:1967, PICKLED AND HOT DIPPED GALVANISED (100 MICRONS NOMINAL THICKNESS) TO BS5493:1977 (AND BS EN ISO 14713:1999)

4,11 AFTER ERECTION OF STEELWORK, ALL DAMAGED AREAS TO BE TOUCHED UP WITH TWO COATS OF ZINC RICH PAINT.

5. CONCRETE NOTES:

5.1 REINFORCED CONCRETE TO BE "VERY SEVERE EXPOSURE" TO BS8110:1997 MIN GRADE RC40 MIN COVER 50mm MIN CEMENT CONTENT 325kg/m^3 MAX WATER CEMENT RATIO OF 0.55

5.2 REINFORCEMENT TO BE HIGH YIELD GRADE B500H TO BS4449:2005; fy=500N/mm^2

5.3 FOUNDATION CONCRETE TO BE GRADE FND3 28/35N/mm^2 TO BS8500:2002 AND TO HAVE CLASS 2 SULPHATE RESISTANCE GRADE DS-2. MAXIMUM FREE WATER CEMENT RATIO TO BE 0.5 AND MINIMUM CEMENT CONTENT TO BE 330kg/m^3

5.4 NOMINAL AGGREGATE SIZE 20mm TO BS8500:2002 AND BS8004.

5.5 BLINDING CONCRETE TO BE GRADE GEN1 AND MASS CONCRETE TO BE GRADE GEN3 TO BS8500-1:2002

6. LIGHTNING PROTECTION NOTES

6.1 ALL LIGHTNING PROTECTION WORKS TO COMPLY WITH BS6651 'CODE OF PRACTICE FOR PROTECTION OF STRUCTURES AGAINST LIGHTNING'

6.2 CONTRACTOR TO BOND ALL PROPOSED CONDUCTIVE PARTS:- ANTENNA/DISH SUPPORT POLES, CABLE TRAYS, HANDRAILS ETC. TO EXISTING LP SYSTEM. CONTRACTOR TO ALLOW OR INSTALLATION OF ADDITIONAL EARTH PITS WHERE NECESSARY.

6.3 CLAMPS USED TO JOIN LP TAPES TO COMPLY WITH BS951 'SPECIFICATION FOR CLAMPS EARTHING AND BONDING PURPOSES'. ALL CLAMPS TO BE MECHANICALLY AND ELECTRICALLY SOUND MEANS OF BONDING AND/OR EARTHING. WHERE DISSIMILAR METALS ARE TO BE CONNECTED, A RELIABLE BI-METALLIC CONNECTOR SHALL BE USED TO CONNECT THE CONDUCTORS.

6.4 CONTRACTOR TO BOND FENCE AT EACH SIDE OF THE GATE OPENING AND ALSO PROVIDE A FLEXIBLE BONDING CONNECTION BETWEEN THE SWING GATE AND IT'S TERMINAL POST.

6.5 THE CONTRACTOR SHALL INCLUDE IN HIS TENDER FOR ALL NECESSARY CONDUITS, TRUNKING, BENDS, BRACKET FIXINGS AND ALL ACCESSORIES REQUIRED FOR THE COMPLETE AND SATISFACTORY INSTALLATION.

6.6 THE LIGHTNING PROTECTION SYSTEM SHALL BE BONDED TO THE ELECTRICAL EARTHING SYSTEM, THUS REDUCING THE EFFECT OF FLASH OVER.

6.7 ON COMPLETION OF THE WORKS, TEST CERTIFICATES SHALL BE PROVIDED FOR THE LIGHTNING PROTECTION SYSTEM.

7. ELECTRICAL NOTES

7.1 ELECTRICAL INSTALLATION TO COMPLY WITH BS 7671 REQUIREMENTS FOR ELECTRICAL INSTALLATION', INCORPORATING ALL AMENDMENTS. (COMPLETE INSTALLATION TO COMPLY WITH CURRENT 16th EDITION OF IEE WIRING REGULATIONS).

7.2 CLEARLY VISIBLE WARNING SIGNS MUST BE PROVIDED, WARNING THE MAXIMUM VOLTAGE THAT EXISTS.

7.3 CHASSIS RACKS AND CABINETS OF ALL HARDWARE, ALL AUXILIARY EQUIPMENT, METAL RACEWAY AND CABLE TRAYS TO BE BONDED TO THE FACILITY GROUNDING SYSTEM.

7.4 A CIRCUIT PROTECTIVE CONDUCTOR SHALL BOND THE MAIN EARTHING TERMINAL (OR SUPPLY EARTH) TO THE EARTH BAR LOCAL TO THE EQUIPMENT AS STIPULATED BY BS7671.

7.5 ALL CABLE TRAYS/RACKING AND STEELWORK TO BE BONDED.

7.6 ON COMPLETION OF THE WORKS THE CONTRACTOR SHALL PROVIDE AN NICEIC ELECTRICAL INSTALLATION CERTIFICATE.

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B	Drawings revised to include proposed Cornerstone scheme	DA	PSH	03.10.2012
A	Issued for Approval	PSH	GR	06.09.2012

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Drawing Title: CONSTRUCTION NOTES

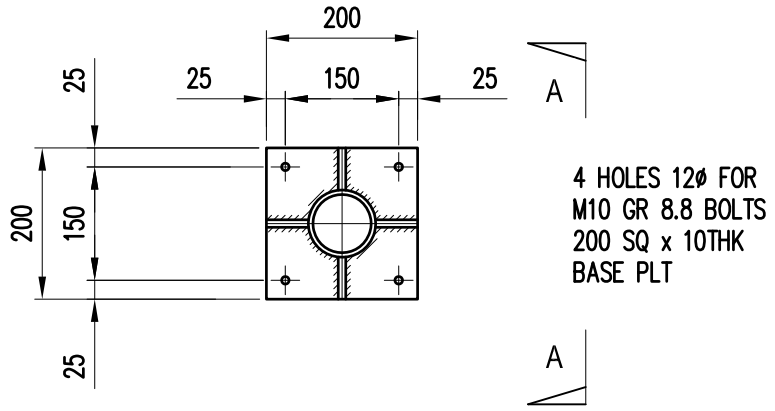
Purpose of Issue: CONSTRUCTION

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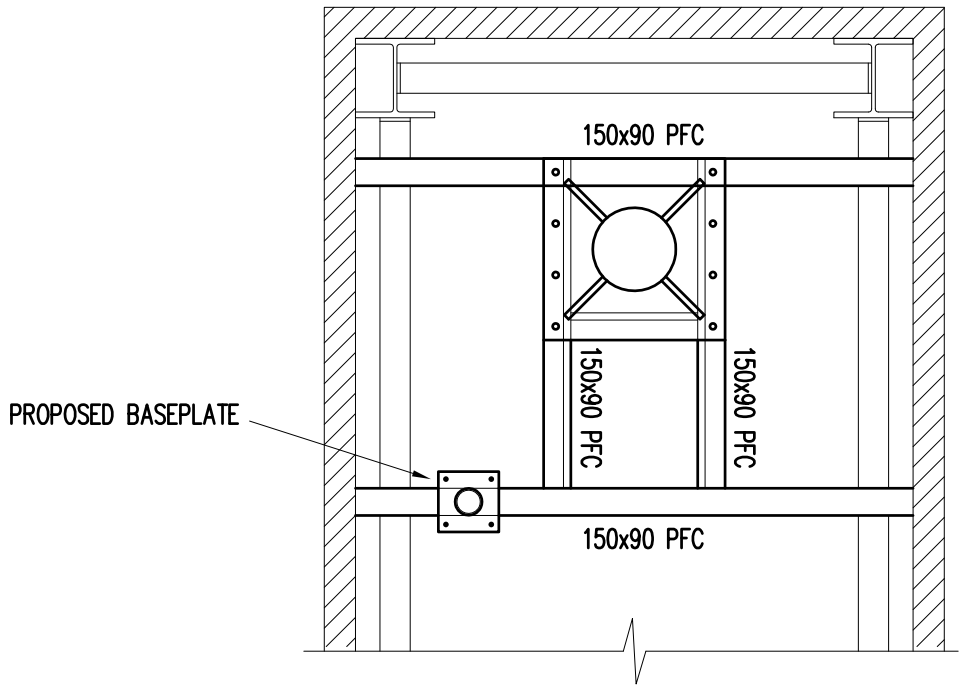
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AS SHOWN	PSH	05.09.12	B

Checked By:	Date:	Approved By:	Date:
GR	05.09.12	SPH	05.09.12

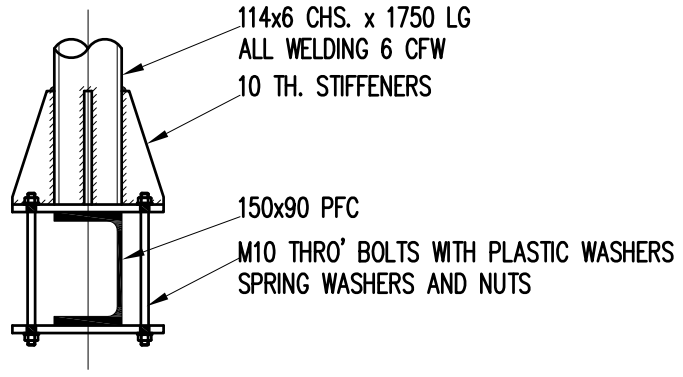
ALL DETAILS AND DIMENSIONS TO BE CONFIRMED PRIOR TO FABRICATION



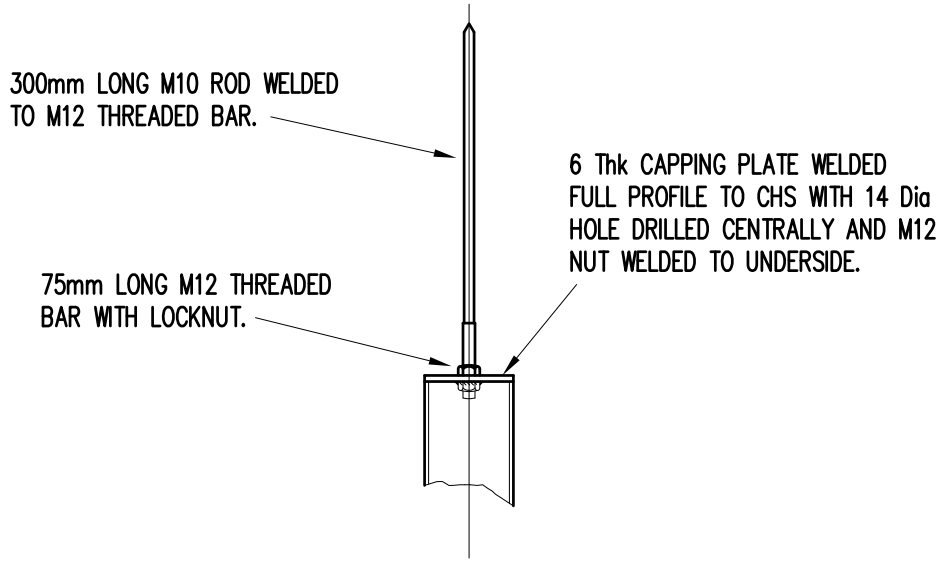
BASEPLATE PLAN
SCALE 1:10



PLAN ON DISH SUPPORT FRAME
SCALE 1:25



SECTION A-A
SCALE 1:10



LIGHTNING FINIAL DETAILS
SCALE 1:10

DISH POLE SUPPORT POLE DETAILS
SCALE 1:10

Notes:
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Drawing Title: DISH SUPPORT DETAILS

Purpose of Issue: PLANNING

Drawing Number:		Series:	
601		-	
Scale: AS SHOWN	Drawn By: PSH	Date: 05.09.12	Issue: B
Checked By: GR / Date: 05.09.12	Approved By: SPH	Date: 05.09.12	