
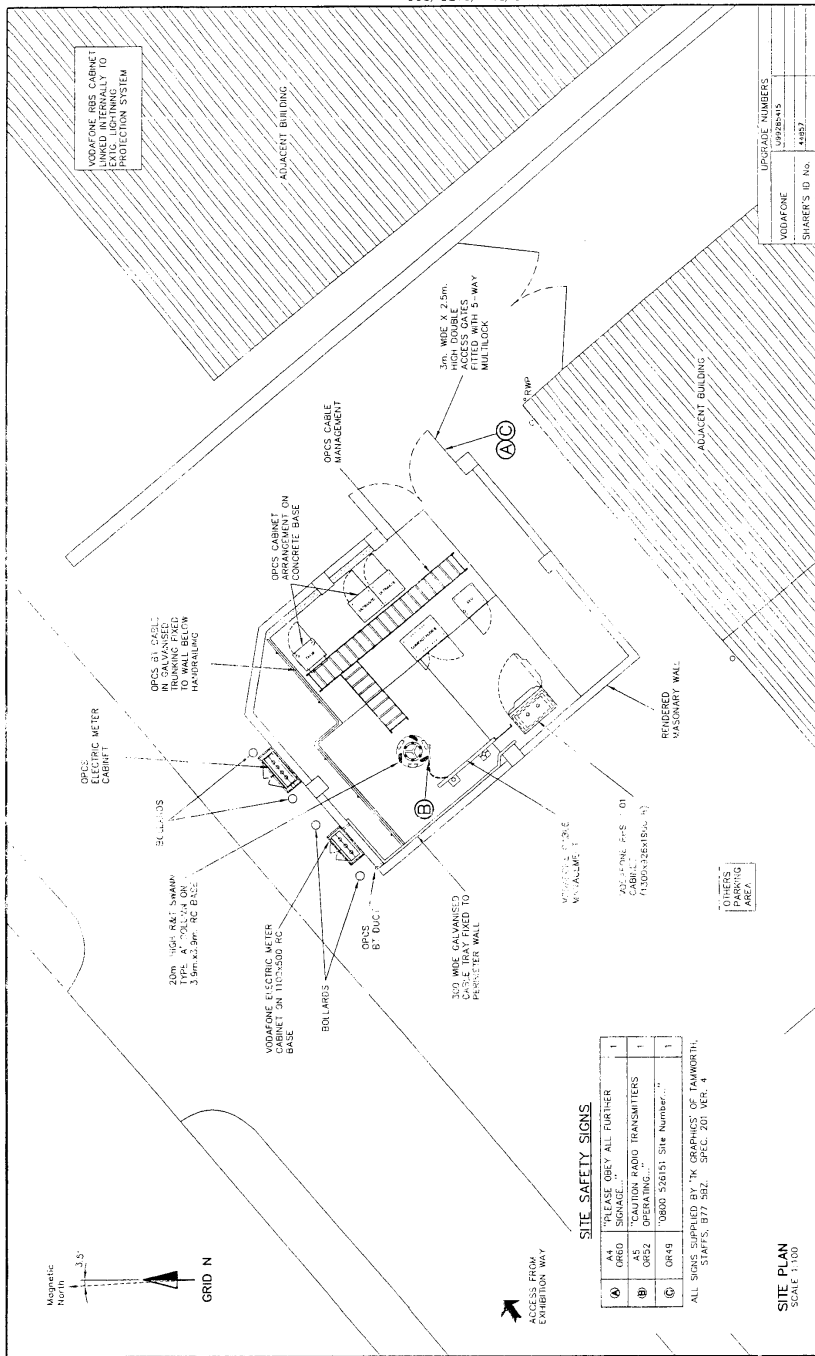


Scale 1:1250	Centre Grid Ref : 176-17	© Crown Copyright - Licence 100025458	Date : 16/03/2005
452 Pinhoe Road		 Exeter City Council	
Head of Estates Services, Directorate of Economy and Development, Exeter City Council, Civic Centre, Paris Street, Exeter, EX1 1NN.			



SITE SAFETY SIGNS

A1	RELEASE GREY ALL FURTHER	1
GRID	SIGNAGE	1
A3	OPERATING AND TRANSMITTERS	1
OP32	OPERATING AND TRANSMITTERS	1
OP49	OPERATING AND TRANSMITTERS	1

ALL SIGNS SUPPLIED BY 'THE GRAPHICS' OF TAMWORTH.
ALL STAFFS, B77 5BZ. SPEC 201 VER. 4

UPGRADE NUMBERS

UPGRADE	NUMBERS
OP32	4.852
OP49	4.852

ST. JAMES COURT
Great Park Road
Leamington
CV36 0AB
B537 4QJ
Tel: 01454 624600
Fax: 01454 625010

SITE PLAN

DATE	10/09/07	SCALE	1:100 @ A3
BY	AL	PROJECT NO.	10/DVN/0175/S02
CHECKED BY	AL	REVISED R/W	2/07/04
DATE	10/09/07	REVISED D/W	2/07/04
DATE	10/09/07	REVISED E/W	2/07/04
DATE	10/09/07	REVISED P/W	2/07/04
DATE	10/09/07	REVISED S/W	2/07/04
DATE	10/09/07	REVISED T/W	2/07/04
DATE	10/09/07	REVISED B/W	2/07/04
DATE	10/09/07	REVISED F/W	2/07/04
DATE	10/09/07	REVISED G/W	2/07/04
DATE	10/09/07	REVISED H/W	2/07/04
DATE	10/09/07	REVISED I/W	2/07/04
DATE	10/09/07	REVISED J/W	2/07/04
DATE	10/09/07	REVISED K/W	2/07/04
DATE	10/09/07	REVISED L/W	2/07/04
DATE	10/09/07	REVISED M/W	2/07/04
DATE	10/09/07	REVISED N/W	2/07/04
DATE	10/09/07	REVISED O/W	2/07/04
DATE	10/09/07	REVISED P/W	2/07/04
DATE	10/09/07	REVISED Q/W	2/07/04
DATE	10/09/07	REVISED R/W	2/07/04
DATE	10/09/07	REVISED S/W	2/07/04
DATE	10/09/07	REVISED T/W	2/07/04
DATE	10/09/07	REVISED U/W	2/07/04
DATE	10/09/07	REVISED V/W	2/07/04
DATE	10/09/07	REVISED W/W	2/07/04
DATE	10/09/07	REVISED X/W	2/07/04
DATE	10/09/07	REVISED Y/W	2/07/04
DATE	10/09/07	REVISED Z/W	2/07/04

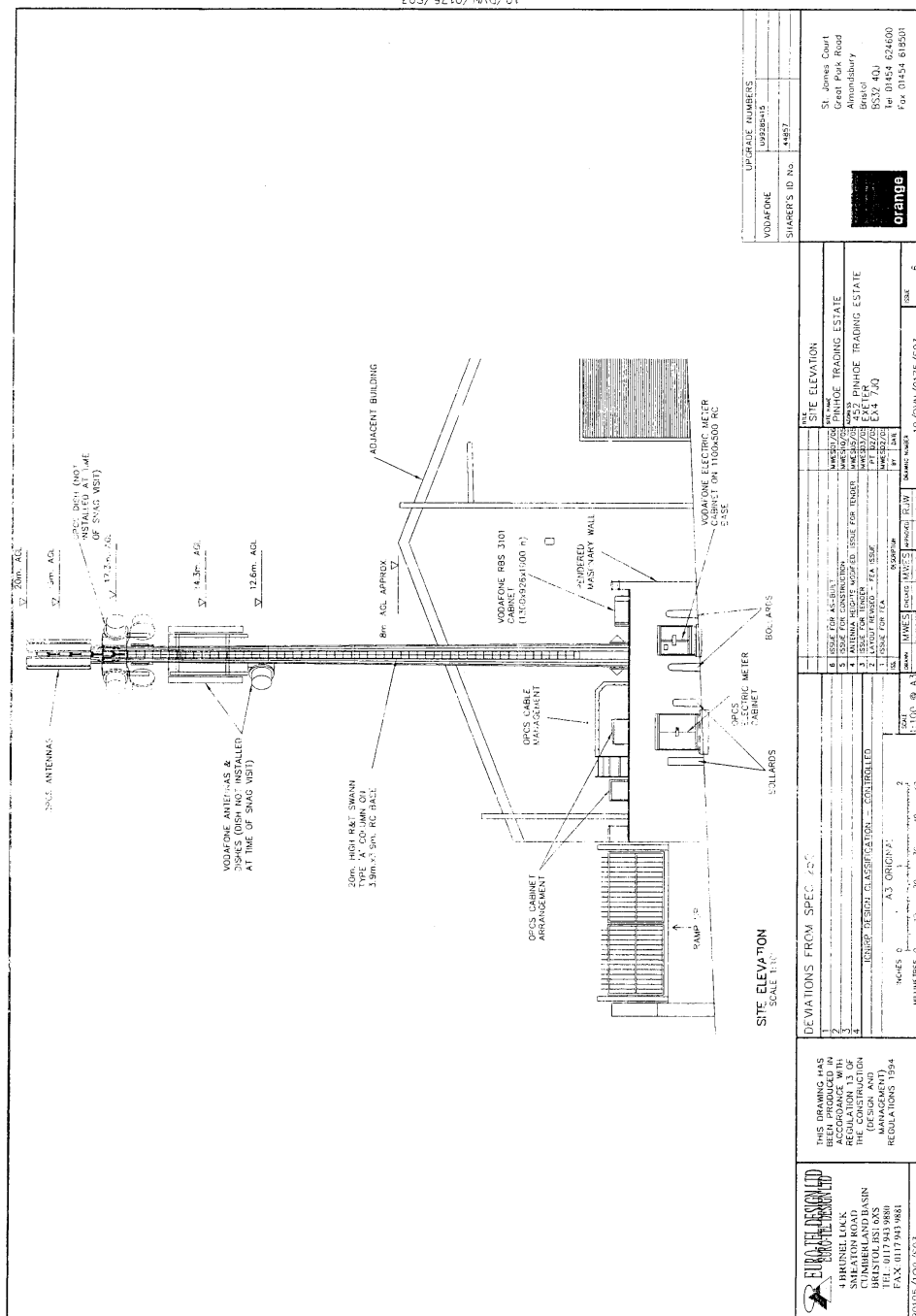
DEVIATIONS FROM SPEC 252

NO.	DESCRIPTION	DATE
1	ISSUE FOR CONSTRUCTION	10/09/07
2	ISSUE FOR TENDER	10/09/07
3	ISSUE FOR ORDER	10/09/07
4	ISSUE FOR I.T.A.	10/09/07
5	ISSUE FOR M.W.E.S.	10/09/07
6	ISSUE FOR R.W.	10/09/07
7	ISSUE FOR D.W.	10/09/07
8	ISSUE FOR F.W.	10/09/07
9	ISSUE FOR G.W.	10/09/07
10	ISSUE FOR H.W.	10/09/07
11	ISSUE FOR I.W.	10/09/07
12	ISSUE FOR J.W.	10/09/07
13	ISSUE FOR K.W.	10/09/07
14	ISSUE FOR L.W.	10/09/07
15	ISSUE FOR M.W.	10/09/07
16	ISSUE FOR N.W.	10/09/07
17	ISSUE FOR O.W.	10/09/07
18	ISSUE FOR P.W.	10/09/07
19	ISSUE FOR Q.W.	10/09/07
20	ISSUE FOR R.W.	10/09/07
21	ISSUE FOR S.W.	10/09/07
22	ISSUE FOR T.W.	10/09/07
23	ISSUE FOR U.W.	10/09/07
24	ISSUE FOR V.W.	10/09/07
25	ISSUE FOR W.W.	10/09/07
26	ISSUE FOR X.W.	10/09/07
27	ISSUE FOR Y.W.	10/09/07
28	ISSUE FOR Z.W.	10/09/07

SITE PLAN
SCALE 1:100

ELBA TEL DESIGN LTD
4 BRINDEL LOCK
SHEPHERD ROAD
SUNDERLAND
SUNDERLAND
TEL: 0117 943 9880
FAX: 0117 943 9881

THIS DRAWING HAS
BEEN PREPARED
IN ACCORDANCE WITH
THE CONSTRUCTION
DESIGN AND
MANAGEMENT (CDM)
REGULATIONS 1994



EURO-TEL DESIGN LTD
 4 BRUNEL ROAD
 SNEATH ROAD
 BRISTOL, AVON
 BRISTOL, AVON
 TEL: 0117 943 9880
 FAX: 0117 943 9881

THIS DRAWING HAS BEEN PRODUCED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 1994

DEVIATIONS FROM SPEC. A3

NO.	DESCRIPTION	DATE
1	ISSUE FOR A3	14/07/04
2	ISSUE FOR A3	14/07/04
3	ISSUE FOR A3	14/07/04
4	ISSUE FOR A3	14/07/04

REVISIONS

NO.	DESCRIPTION	DATE
1	ISSUE FOR A3	14/07/04
2	ISSUE FOR A3	14/07/04
3	ISSUE FOR A3	14/07/04
4	ISSUE FOR A3	14/07/04

ISSUE FOR A3

NO.	DESCRIPTION	DATE
1	ISSUE FOR A3	14/07/04
2	ISSUE FOR A3	14/07/04
3	ISSUE FOR A3	14/07/04
4	ISSUE FOR A3	14/07/04

ISSUE FOR A3

NO.	DESCRIPTION	DATE
1	ISSUE FOR A3	14/07/04
2	ISSUE FOR A3	14/07/04
3	ISSUE FOR A3	14/07/04
4	ISSUE FOR A3	14/07/04

orange

UPGRADE NUMBERS
 4487

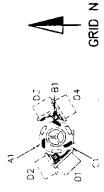
SHARER'S ID No.

St. Jones Court
 Great Park Road
 Almondsbury
 BS32 4QJ
 Tel: 01454 624600
 Fax: 01454 618501

ID	ANTENNA REF	FUNCTION	TYPE	HEIGHT TO TOP OF ANTENNA	HEIGHT TO MID OF ANTENNA	HEIGHT TO BOT. OF ANTENNA
1	A1	OPCS	OPCS	18000mm	18000mm	18000mm
2	B1	OPCS	OPCS	18000mm	18000mm	18000mm
3	C1	OPCS	OPCS	18000mm	18000mm	18000mm
4	D1	OPCS	OPCS	18000mm	18000mm	18000mm
5	E1	OPCS	OPCS	18000mm	18000mm	18000mm
6	F1	OPCS	OPCS	18000mm	18000mm	18000mm

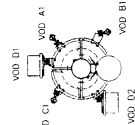
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2	B1	OPCS	20mm	250mm	RED
3	C1	OPCS	20mm	250mm	RED
4	D1	OPCS	20mm	250mm	RED
5	E1	OPCS	20mm	250mm	RED
6	F1	OPCS	20mm	250mm	RED

ID	ANTENNA REF	FUNCTION	TYPE	HEIGHT TO TOP OF ANTENNA	HEIGHT TO MID OF ANTENNA	HEIGHT TO BOT. OF ANTENNA
1	A1	OPCS	OPCS	18000mm	18000mm	18000mm
2	B1	OPCS	OPCS	18000mm	18000mm	18000mm
3	C1	OPCS	OPCS	18000mm	18000mm	18000mm
4	D1	OPCS	OPCS	18000mm	18000mm	18000mm
5	E1	OPCS	OPCS	18000mm	18000mm	18000mm



PLAN OF COLUMN @ 20m. AGL
SCALE 1:100

NO DRINKS INSTALLED AT TIME OF SMC VISIT



PLAN OF COLUMN @ 14m. AGL
SCALE 1:100

N.B. ANTENNA 'VOD B1' TO HAVE A MAX. OF 4.5' COORDINATED ELECTRIC & MECHANICAL SPACING.

ERA TELEVISION LTD
4 BRENSEL LOCK
SHEARON ROAD
CUMBERLAND BASIN
SHEFFIELD S19 3BB
TEL: 0117 943 9880
FAX: 0117 943 9881

THIS DRAWING HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ENGINEERING COUNCIL (DESIGN AND MANAGEMENT) REGULATIONS 1994

DEVIATIONS FROM SPEC 252

NO.	DESCRIPTION	DATE	BY	CHKD.
1	AS ORIGINAL	22/07/04
2

NO.	DESCRIPTION	DATE	BY	CHKD.
1
2
3
4
5

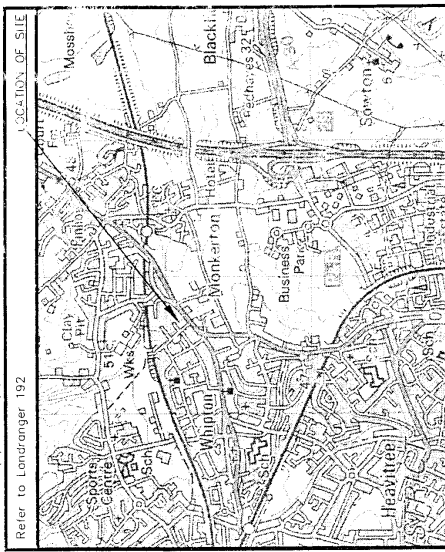
ORANGE

St. James Court
Great Park Road
Bristol
BS32 4QJ
Tel: 01454 624600
Fax: 01454 618501

UPGRADE NUMBERS
VODAFONE
SHARPER'S ID No. 43852

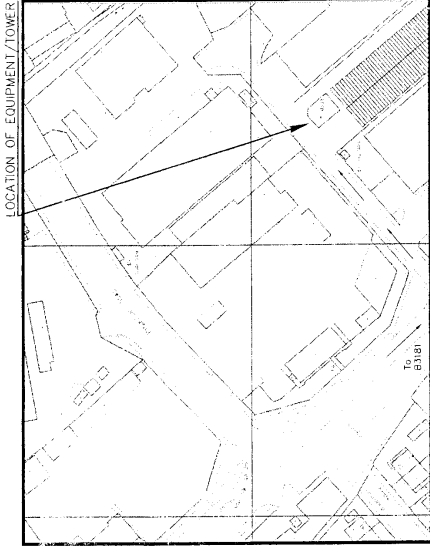
MGR - SX (2)95647 (0)93975

Refer to Lomdranger 192



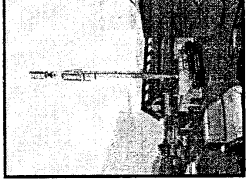
LOCATION PLAN

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LOCATION OF EQUIPMENT/TOWER

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 holder only.



SITE PHOTOGRAPH VIEWING SOUTH EAST

BLOCK PLAN
 Sheet 1/1222

From M5 jct. 29 take the A3015 heading West. Go straight over the first roundabout and under the railway bridge. At the next roundabout take the first exit and join the dual carriageway (left turn only) to the next roundabout. Go all the way around & head back down the dual carriageway onto the B3181. Go over left hand side of bridge and then the first exit on the left into Exhibition Way and then the first right. The site is approx. 100 yds down on the right. N.B. new business park development underway so road layout likely to change around area of site.

DIRECTIONS

VODAFONE	U99285415	-	-
SHARER'S ID	44857	-	-

SITESHARE DETAILS

4 BRUNEL LOCK BRISTOL BN1 6AS TEL: 0117 943 9880 FAX: 0117 943 9881	THIS DRAWING HAS BEEN PRODUCED IN ACCORDANCE WITH THE REGULATIONS OF THE CONSTRUCTION (GENERAL MANAGEMENT) REGULATIONS 1994	OPCS SITE NAME: PINHOE TRADING ESTATE OPCS SITE REF: DWN 0175 OPCS UPGRADE REF: N/A	LOCATION & BLOCK PLANS PINHOE TRADING ESTATE EXETER EX4 7JG	
	SHEET: 1 OF 4 NUMBER OF SHEETS: 4 DATE: 10/01/2003	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	10/DVN/0175/S01 4
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

St. James Court
 Great Park Road
 Almondsbury
 Bristol BS32 4JQ
 Tel 01454 624600
 Fax 01454 618501



Electrical Field Survey

452 Pinhoe Trading Estate
Exeter
EX4 7JQ

Report Author

Martin Chapman
Health, Safety & Environment Advisor
Orange

Electrical Field Survey for: 452 Pinhoe Trading
Estate, Exeter
Orange Site Reference : DVN 0175

Conducted by :
Martin Chapman - Orange Group Health and Safety Adviser

Witnessed By:
Michael Tarry (Needham Haddrell)

Date of survey:
6th October 2006

1. Introduction

The Local authority raised concerns regarding ICNIRP compliance with respect to DVN 0175, these concerns prompted the need for a RF survey to be carried out .

2. Safety Standards

Orange operates in line with the International Commission on Non-Ionising Radiation Protection (ICNIRP) safety guidelines for occupational and general public exposure to time varying electromagnetic fields. For the Orange operating frequency of 1800 MHz and 2200 MHz the ICNIRP guidelines are as follows:

ICNIRP Guidelines	Power Density (W/m ²)
Occupational 1800	45 W/m ²
Occupational 2200	50 W/m ²
Public 1800	9 V/m ²
Public 2200	10 W/m ²

3. Magnetic field meter

The specifications of the magnetic field meter used are:

Manufacturer: Wandel & Colterman
Model and serial number: EMR- 300 EM Radiation Meter (Ser No AI-0055)
Measuring ranges: 0.0027 to 1700 W/m²
Probe: Precision isotropic electric field probe type 11 with a response in the range 10 MHz to 60 GHz
Power supply: Battery operated
Last calibration: 15th February 2006

4. Measurement Accuracy

The electrical field sensitivity of the EMR 300 and its associated isotropic probe is: 1 – 300 V/m or 0.0026 – 230 W/m², 0.0026 W/m² is 3461 times below the ICNIRP public standard

Only measurements recorded above the sensitivity of the meter and probe i.e. measurements above 0.0026 W/m² are recorded in the table of results. Any measurements that are below the meter sensitivity are included in the table of results for reference only.

5. Measurement Method

Power density exposures averaged over approximately thirty seconds were recorded at various positions as indicated below.

All recorded measurements include the sum total of all power densities that are within the scope of the isotropic meter and probe. These will include the power density transmitted by other devices.

The power densities measured at all positions are compared to the ICNIRP guidelines.

6. Electric Field Survey Results Public Exposure Areas - Levels

The highest recorded levels measured in public areas were:

Location	W/m ²	Times below ICNIRP Public
O/S No 41 Stratford Avenue	.0001 W/m ²	90,000
O/S No 50 Warwick Way	.0007 W/m ²	12,857
O/S No 62 Grenville Avenue	.0021 W/m ²	4,286
Junction Exhibition Way & Summer Way	.0001 W/m ²	90,000
Entrance to Aldi @ Junction Exhibition Way	.0040 W/m ²	2,250
O/S Westhoe	.0008 W/m ²	11,250
O/S Pilton House and Belmoor Lodge	.0008 W/m ²	11,250

7. Conclusions

- At the time of the survey all the measurements recorded were within the standards set by the International Commission for Non Ionising Radiation Protection and pose no known risk to health.
- The highest level recorded was at the entrance to Aldi at the junction of Exhibition Way, this reading represented a level 2,250 times below the ICNIRP public exposure level.

RF survey measurement table

Date: 6th October 2006

Site: DVN 0175

Address:
452 Pinhoe Trading Estate
Exeter
EX4 7JQ

Power Density ICNIRP public Levels:

2nd generation Mobile 1.8ghz = 9 W/m²

3rd generation Mobile 2.2ghz = 10 W/m²

Electrical Field ICNIRP standard : The electrical field sensitivity of the EMR 300 and its associated isotropic probe is:

1 – 300 V/m or 230 - 0.0026 W/m²

0.0026 W/m² is 3461 times below the ICNIRP public standard

• = Below meter sensitivity

Location	W/m ²	Times below ICNIRP
O/S No 41 Stratford Avenue	.0001 W/m ²	• 90,000
O/S No 62 Grenville Avenue	0021 W/m ²	• 12,857
O/S No 50 Warwick Way	.0007 W/m ²	• 4,286
Junction Exhibition Way & Summer Way	0001 W/m ²	• 90,000
Entrance to Aldi @ Junction Exhibition Way	.0040 W/m ²	2,250
O/S Westhoe	.0008 W/m ²	• 11,250
O/S Pilton House and Belmoor Lodge	0008 W/m ²	• 11,250