DETERMINED
PLAN

Terrestrial Microwave Antenna Products

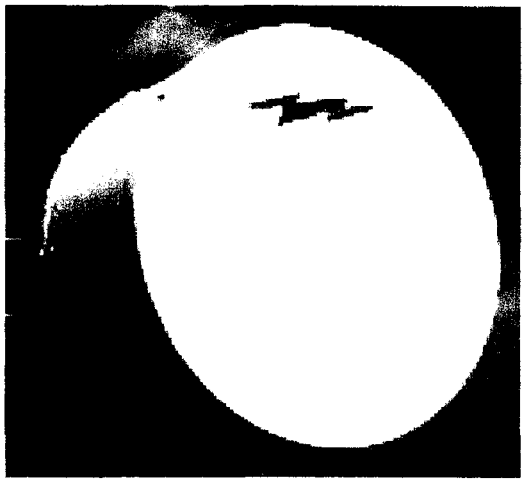
HSX1-180 Antenna

**0.3m (1ft)
High Performance
Parabolic Antenna**

Andrew HSX1-180 dual polarised high cross polar performance antennas are designed to satisfy the demands of microwave networks worldwide.

The HSX1-180 antenna for BT features a polarisation adjustment mechanism in addition to the standard azimuth and elevation adjustments.

Andrew antennas satisfy the widely accepted EIA 195C and 222E standards for electrical, mechanical and structural characteristics and are backed by a 3 year warranty.



Flange Options	
Standard	PBR220
Radome Options	
Standard	ABS
Colour Options	
Part number suffix	Colour
-BT11	BT Light Grey (BS4800 10A03)
-BT12	Dark Grey (Fed Std 595, 2615)
-BT13	Middle Brown (BS4800 06C39)
-BT14	Deep Bronze Green (BS381C No224)

Electrical Characteristics		
Antenna Type		**HSX1-180**
Frequency Band (GHz)		**17.7 - 19.7**
Gain (dBi)	Bottom	**32.4**
	Middle	**33.0**
	Top	**33.5**
3dB Beamwidth (deg.)		**3.6**
Cross Polar Disc. (dB)		**34**
F/B Ratio (dB)		**60**
VSWR (R.L. dB)		**1.135(24.0)**
R.P.E Number		**2050A & 2051A**

For applications assistance, please contact the Andrew Customer Support Center :

United States : TOLL FREE : 1-800-255 1479
Telephone : (708) 349 3300
Fax : (708) 349 5943

United Kingdom : TOLL FREE : 0800 250055
Telephone : (+44) 1592 780561
Fax : (+44) 1592 782380

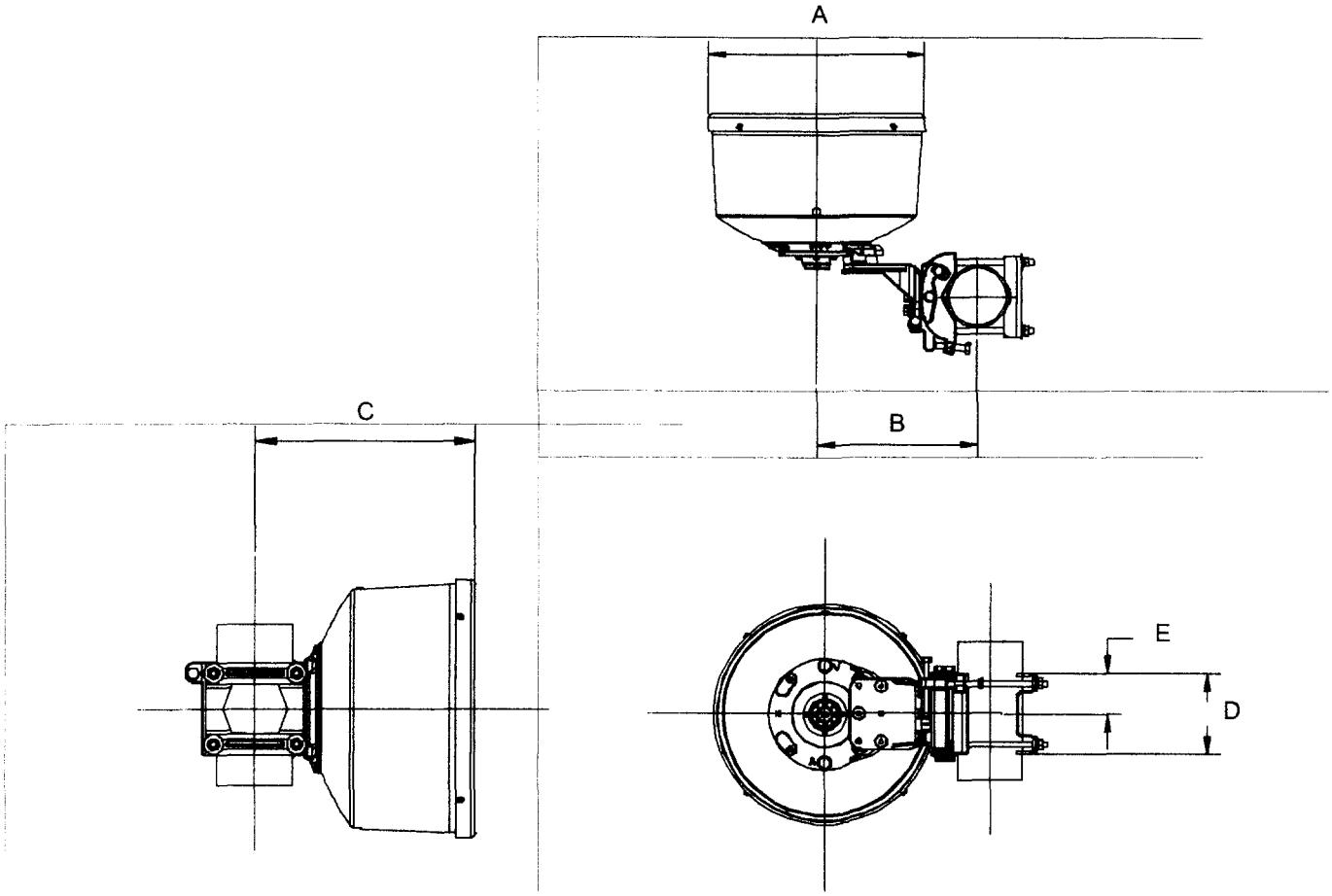
SHDC
Development
29 MAY 2003
Ref 0683/03

ANDREW®

DETERMINED
PLAN

Terrestrial Microwave Antenna Products

HSX1-180 Antenna - Outline Dimensions



ANTENNA DIMENSIONS			
A	398	D	143
B	296	E	72
C	338		

29 MAY 2003

ANDREW®

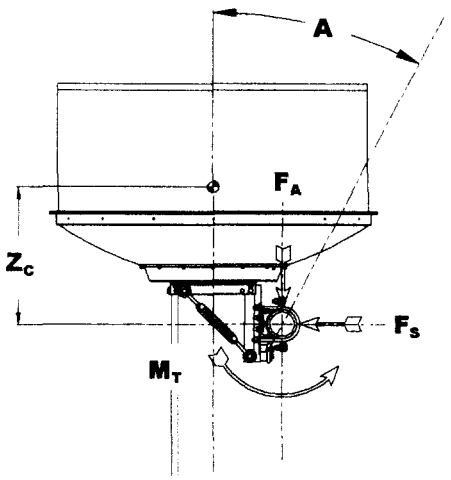
DETERMINED

Terrestrial Microwave Antenna Products

HSX1-180 Antenna – Wind Forces

Wind loading

The axial, side and twisting moment forces stated are maximum loads applied to the tower by the antenna at a survival windspeed of 200km/h (125mph). They are, in every case, the result of wind from the most critical direction for each parameter. The individual maximums may not occur simultaneously. All forces are referenced to the antenna mounting pipe.



Axial force	F_A	334 N	(75 lb)
Side force	F_S	150 N	(34 lb)
Moment	M_T	85 Nm	(63 lb-ft)
Angle '**A**' For M_T maximum			110°

Where side struts are fitted, the loads carried by the side struts are components of, not in addition to F_A F_s and M_T.

Z_{CG} Without Ice	98 mm (3.9")
Z_{CG} With12mm (1/2") Radial Ice	130 mm (5.1")

Z_{CG} is the axial distance from the centre of gravity to the mounting pipe

Antenna Weights	
Antenna Without Ice	Antenna With 12mm (1/2") Radial Ice
10.5 kg (23 lb)	30 kg (66 lb)

Antenna Packed Weights (Gross) and Dimensions (Single Unit Pack)	
Weight	Dimensions
11.9 kg (26 lb)	480 x 480 x 510 mm

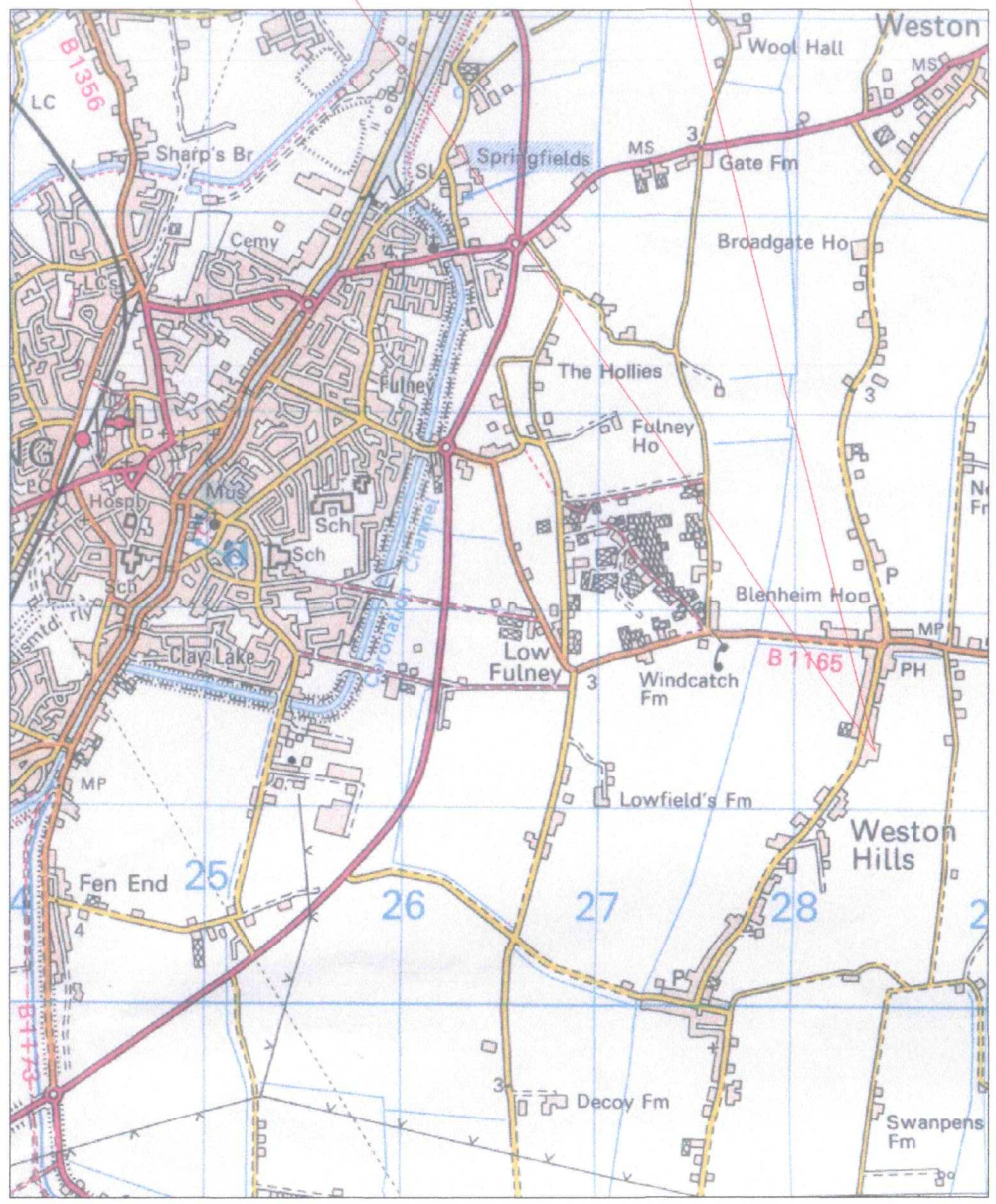
SHDC
Planning & Dev...
29 M... 2003

ANDREW®

DETERMINED
PLAN

SHDC
Planning & Development
29 MAY 2003
Ref 0683/03

SITE LOCATION





BT

Notes

Reproduced from an OS map by permission of Controller HMSO. Crown Copyright Reserved, with British Telecommunications plc data added. Copyright British Telecommunications plc.

Amendments	Issue

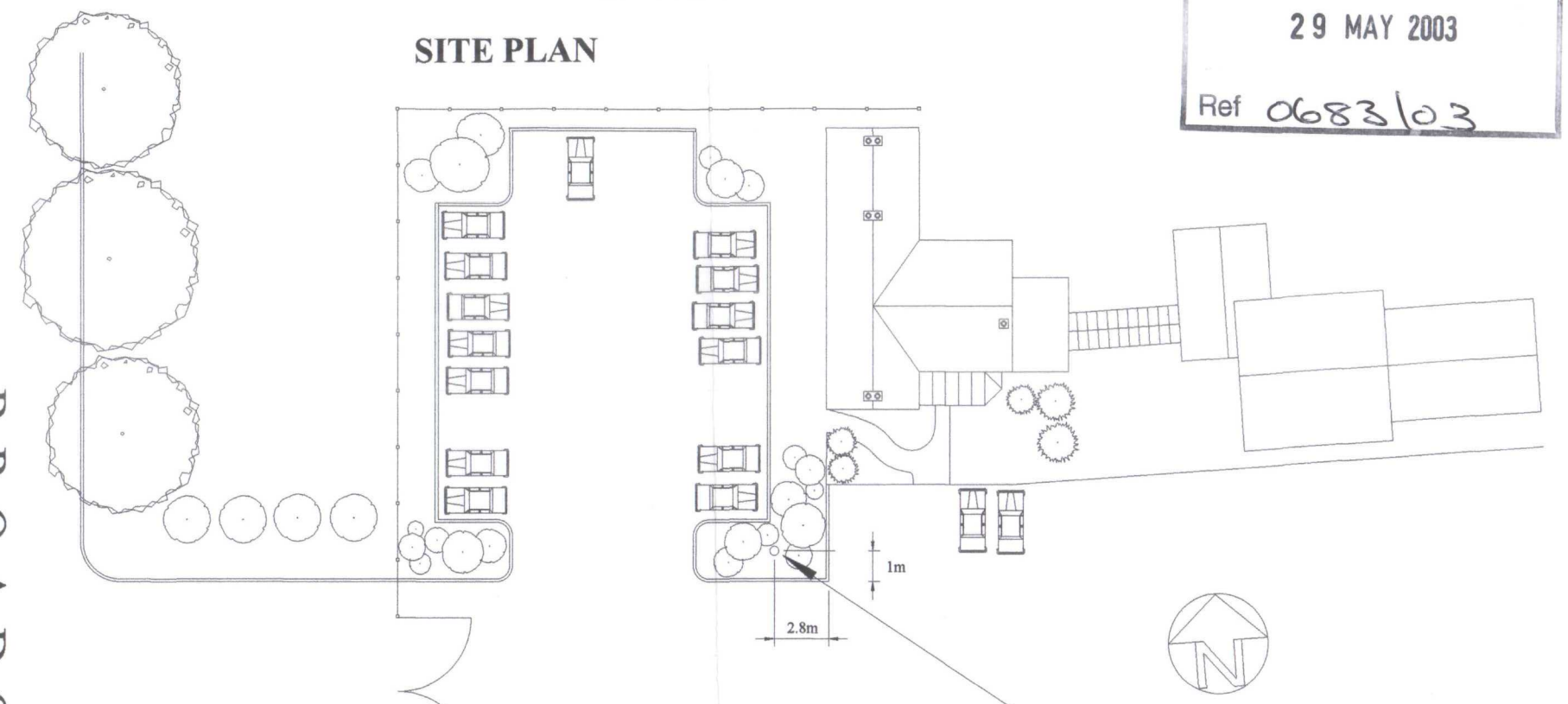
Office	BT Wholesale Network Capacity & Planning
Address	Post Point: BSTE 0301 Bath Street ATE Bath Street Nottingham NG1 1BZ
Planner	Dave Hawkins
Tel / Fax	0115 853 7727 / 0115 947 2312

Site Information	
Site	BROADGATE HOMES Ltd.
Address	519 BROADGATE WESTON HILLS SPALDING LINCOLNSHIRE PE12 6DB
NGR	TF 28400 21320

Drawing Information	
Title	BROADGATE HOMES Ltd.
Date	16/05/2003
Job Ref.	IMGB265412
Drawing No.	YXXXX 1-3

SHDC
Planning & Development
29 MAY 2003
Ref 0683/03

SITE PLAN

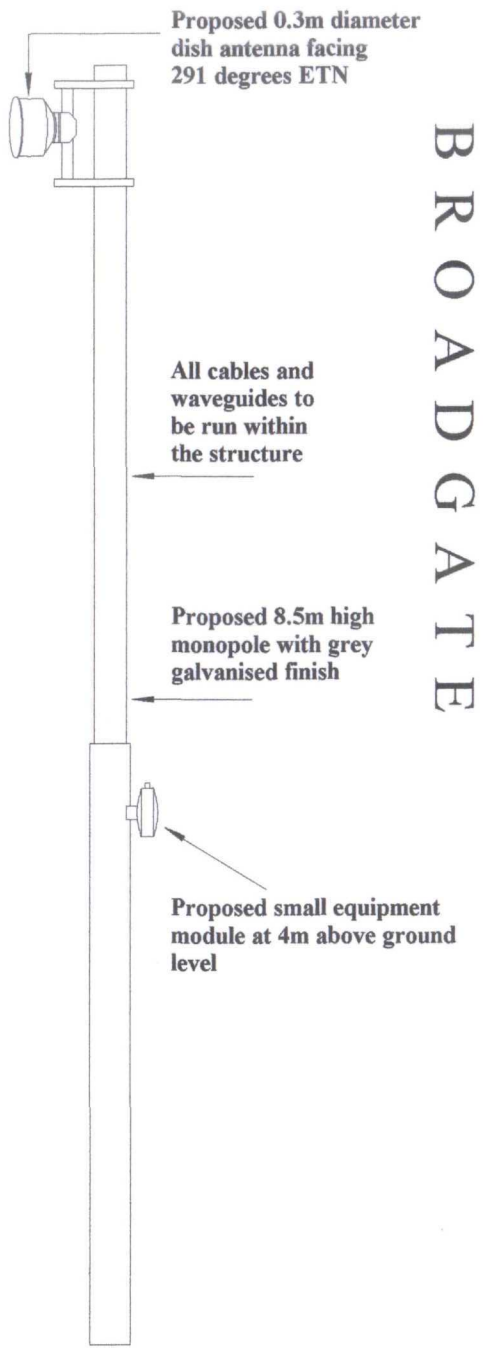


Position of proposed 8.5m high monopole and 0.3m diameter dish antenna

VIEW LOOKING WEST



SOUTH ELEVATION



BT

Notes

Amendments	Issue
Drawing Created	1

Office	BT Wholesale Network Capacity & Planning
Address	Post Point: BSTE 0301 Bath Street ATE Bath Street Nottingham NG1 1BZ
Planner	Dave Hawkins
Tel / Fax	0115 853 7727 / 0115 947 2312

Site Information	
Site	BROADGATE HOMES Ltd.
Address	519 BROADGATE WESTON HILLS SPALDING LINCOLNSHIRE PE12 6DB
NGR	TF 28400 21320

Drawing Information	
Title	BROADGATE HOMES Ltd.
Date	16/05/2003
Job Ref.	IMGB265412
Drawing No.	YXXXX 2-3