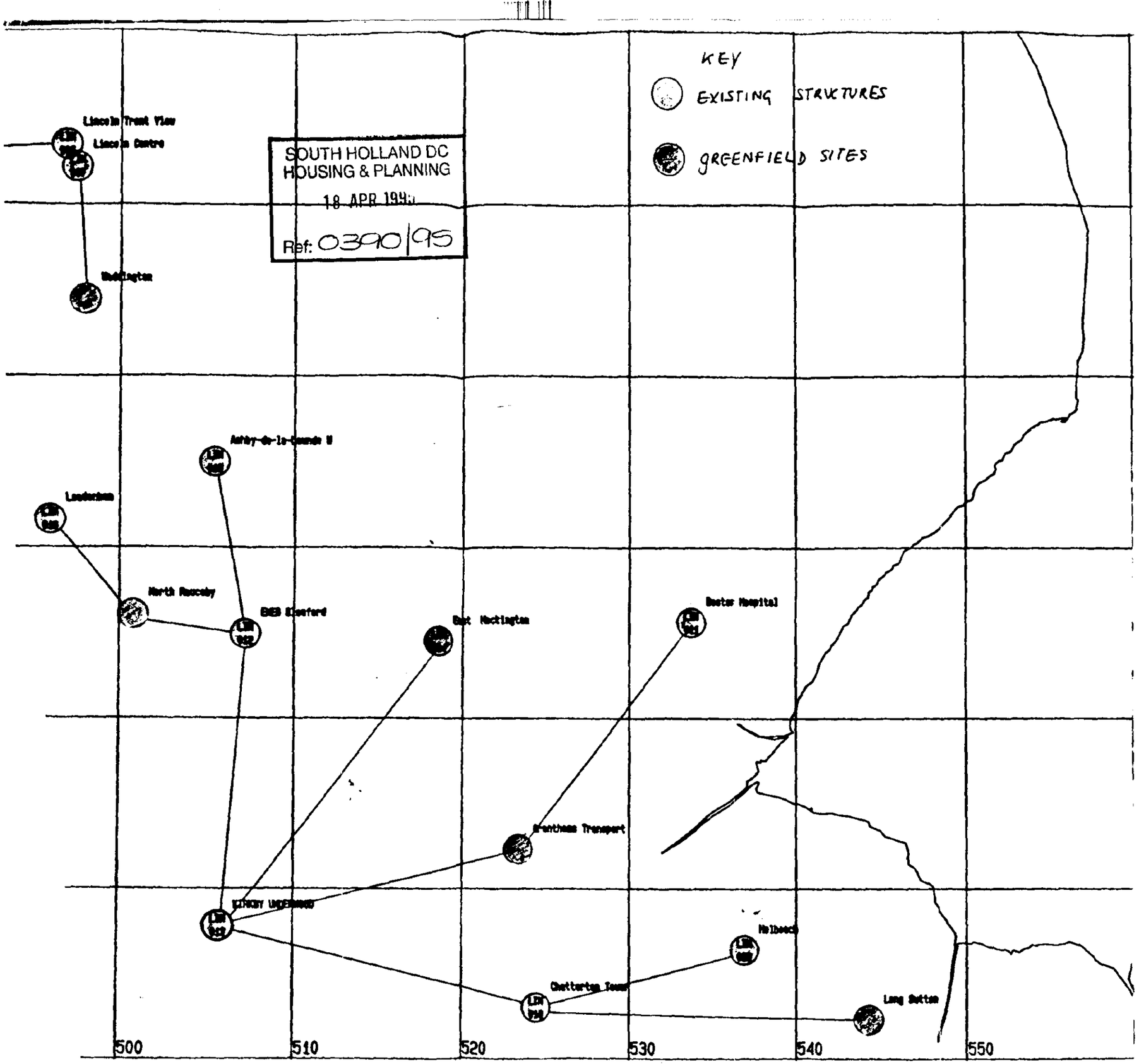
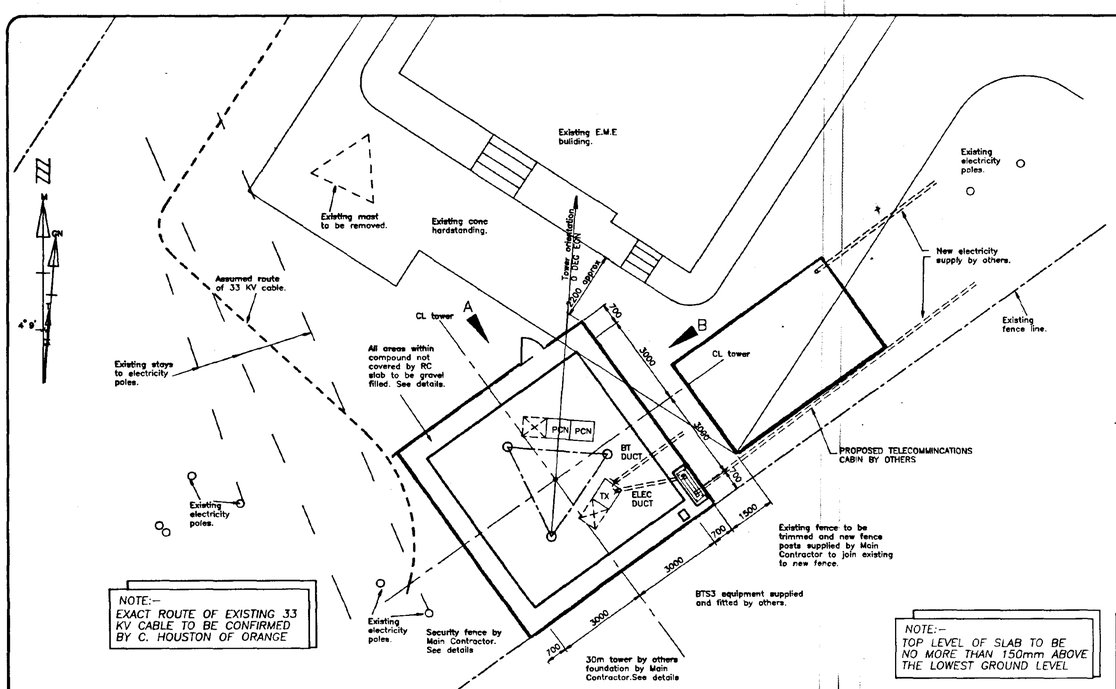
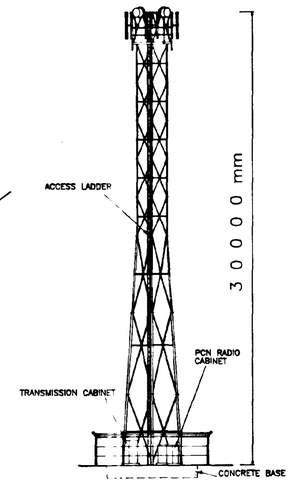

KEY
EXISTING STRUCTURES
GREENFIELD SITES
SOUTH HOLLAND DC
HOUSING & PLANNING
18 APR 1995
Ref: 0390/95
Lincoln Trent View
Lincoln Centre
Washington
Ashby-de-la-Zouche II
Louth
North Ravsby
Boston Hospital
East Huntington
Grantham Transport
Holbeach
Chatterton Road
Long Sutton
500
510
520
530
540
550



SITE PLAN
1:100



TYPICAL TOWER ELEVATION 1:100
SEE NOTES 4 7 14

NOTE:–
TOP LEVEL OF SLAB TO BE NO MORE THAN 150mm ABOVE THE LOWEST GROUND LEVEL

THIS DRAWING TO BE READ BY MAIN CONTRACTOR IN CONJUNCTION WITH GEOTECH REPORT BY R.T SWANN OR THEIR RPEPRESENTATIVES. ANY DISCREPANCY IN INFORMATION TO BE BROUGHT TO THE ATTENTION OF GPN BY MAIN CONTRACTOR.

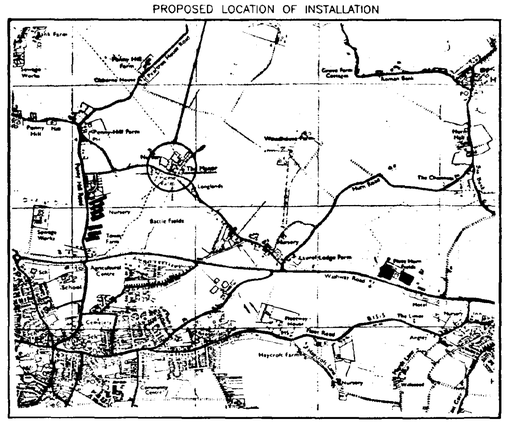
THE CONTRACTOR IS TO ENSURE THAT DUCT RUNS WITHIN THE SLAB DO NOT CLASH WITH THE LOCATION OF POST DRILLED HOLES/FIXINGS OR PASS WITHIN 300mm OF THE TOWER LEG STUBS. ALL DUCTS TO RUN AT HALF SLAB DEPTH.

DUCTS ARE TO BE PROVIDED WITH EASY BENDS AT ALL CHANGES OF DIRECTION.

REFER ONLY TO SITE PLAN FOR CORRECT TOWER ORIENTATION.

THE SETTING OUT OF THE BASE IS TO IN RELATION TO GRID NORTH. GRID NORTH IS TO BE ESTABLISHED BY THE MAIN CONTRACTOR AND AGREED WITH R&T SWANN LTD PRIOR TO COMMENCEMENT OF ANY CONCRETING (see note 5)

PROPOSED LOCATION OF INSTALLATION



LOCATION PLAN

ANTENNAE AND DISH KEY

ITEM	FUNCTION \ A END *	SECTOR *	TYPE/SIZE *	BEARING *	HEIGHT TO TOP OF POLE FROM G.L	HEIGHT TO CENTRE OF DISH FROM G.L	REMOTE *	LNA *
A1	TX/RX	A	120 SECTOR	0 DEG EGN	30000 mm			YES
A2	RX	A	120 SECTOR	0 DEG EGN	30000 mm			YES
B1	TX/RX	B	120 SECTOR	120 DEG EGN	30000 mm			YES
B2	RX	B	120 SECTOR	120 DEG EGN	30000 mm			YES
C1	TX/RX	C	120 SECTOR	240 DEG EGN	30000 mm			YES
C2	RX	C	120 SECTOR	240 DEG EGN	30000 mm			YES
D1	LIN–0010		600 ø DISH	225 DEG EGN		30000 mm	NO	
D2	LIN–0029		600 ø DISH	120 DEG EGN		30000 mm	NO	

* THIS INFORMATION IS FOR THE USE BY ORANGE ARTISTS AND TRADESMEN ONLY

NOTES:–

1. This drawing is to be read in conjunction with all other Contract Drawings as listed in 'Section 2 – Works Specification' of the contract specification.

2. This Drawing is to be read in conjunction with the 'Works Specification' which is Section 2 of the contract specification.

3. The Main Contractor is to supply and fit all those items of new work and alterations shown on this drawing and all other contract drawings as being in his supply and as listed in the Contract Specification.

4. All antennae, dishes and their associated radio feeder cables will be supplied and fitted by Orange PCS Ltd. or their artists and tradesmen, after Practical completion of the contract.

5. Work to figured dimensions only. IF IN DOUBT ASK! All dimensions to be verified by the contractor prior to the commencement of works. The exact position and correct orientation of the base is to be confirmed with R&T Swann Ltd in advance of any concreting.

6.i. Blinding and mass concrete to be C20P OPC (to BS12) 20mm nominal aggeragate (to BS882) of medium workability i.e. 1:6 cement:total aggeragate in accordance with BS5328.

6.ii. Concrete to be C40 Design mix with OPC (to BS12) nominal maximum aggeragate size of 20mm to (BS882) minimum cement content of 325 kg\m cube and maximum free water cement ratio of 0.55 and 5% air entrainment at the point of placing. But as shown on J A Associates drawing. If different to above for the Tower concrete base

7. New pre–fitted meter cupboard (free issue) from Orange P.C.S Ltd to be collected from regional transport point. Main Contractor will be required to provide electrical test notice for whole installation after fitting and connection.

8. All ducts are to be provided with "slow" bends at all changes in direction. The incoming ducts are to be at a depth shown on the drawings but a min of 100mm cover from the duct to the slab edge. The ducts connecting various points within the slab plan can be cast within the slab concrete.
The ducts are to be smooth wall UPVC 100mm dia. Complete with draw wire. All buried ends of ducts are to be marked at the ground surface with permanent clearly described markers.

9. The finish to the top surface of the slab is to be wood floated, being careful to maintain a 1:100 crossfall as shown to the top of the slab. The sides of the raft slab are to formed as *type A of B.S. 8110 cl 6.10.3. namely properly designed formwork.* Particular care is to be taken with the top 200mm which will remain visible after completion.

10. Cover to reinforcement is to be min 60mm to the bottom/sides and 80mm to the top.

11. *Formation level* below the blinding is to be hand trimmed if necessary and to be capable of supporting an applied load of 50kn\sq.m. The Contract Administrator is to be notified in advance of when he may inspect the formation to ensure compliance with this requirment. No blinding is to be placed until the formation has been approved by the Contract Adminstrator.

12. The site is to be left in a clean and workmanlike manner upon completion of the works and is to be similarly maintained during the progress of the works.

13. The contractor is to be responsible for the design, maintenance and removal of all temporary works.

14. The tower will be supplied and fitted by others onto a foundation stub grillage assembly that is to be cast into the raft foundation by the main contractor. The foundation stub grillage assembly is to be supplied and delivered, both free of charge, by R & T Swann Ltd. under the direction of the main contractor. The main contractor is responsible for the site handling and accurate positioning and concreting of the grillage in accordance with detailed recommendations attached to the "Contract Specification".
The exact position and correct orientation of the base is to be confirmed by R & T Swann Ltd in advance of concreting.

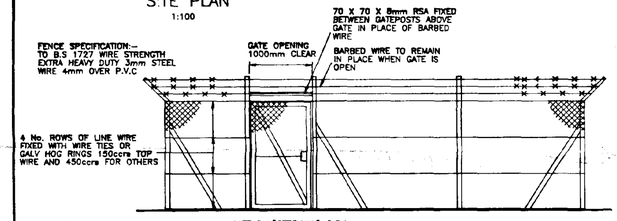
15. All surplus excavated material is to be removed from site and carted to a tip.

16. A trench is to be provided all round the foundation slab to provide a lightning protection earthing system. The complete lightning protection system to be by Main Contractor. (see note 19)

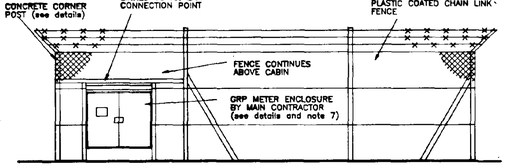
17. After concreting the raft slab foundation and installing the GRP meter enclosure the main contractor is to allow access for Orange PCS Ltd artists and tradesmen to erect the radio tower on the stub grillage, install the radio equipment. After these installations the Main Contractor is to erect the fencing and generally complete.

18. Fencing is to comply with B.S. 1722. Cranked top tapered concrete posts, *overall height 2150mm with chain link complying* with B.S. 1722 part 10.

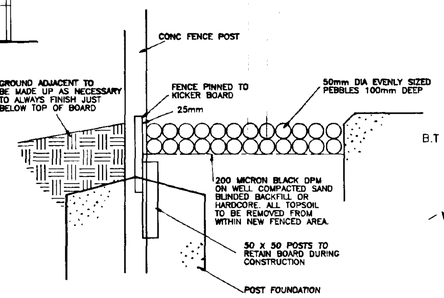
19. For lighting protection and earthing details please refer to standard Orange P.C.S Ltd Drg. No 10/1785/8x and 10/1786/1x



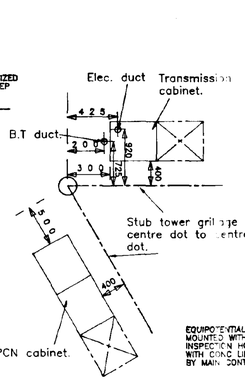
FENCE ELEVATION A
1:50



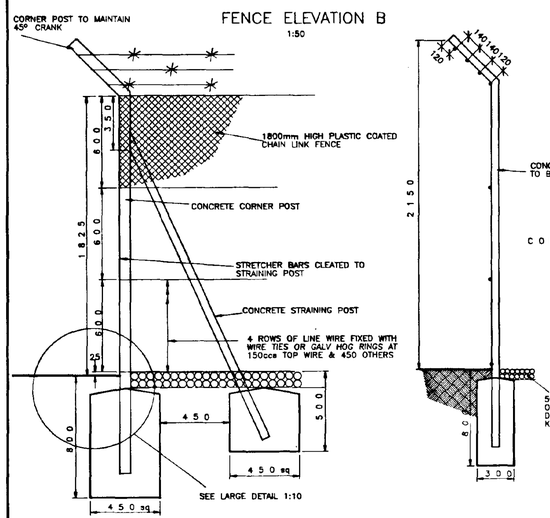
FENCE ELEVATION B
1:50



DETAIL OF KICK BOARD AND PEBBLES
1:10



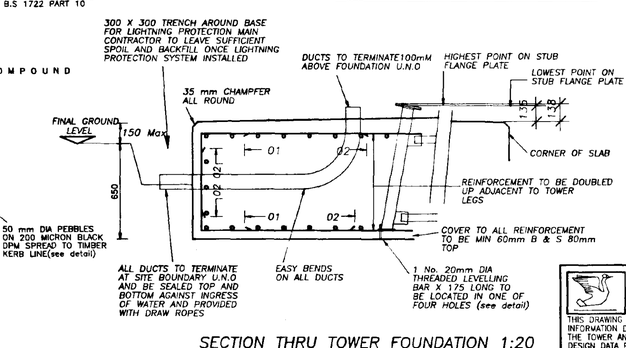
DUCT SETTING OUT 1:50



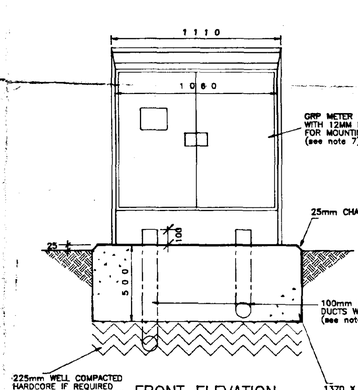
ELEVATION OF CORNER STRAINING POST 1:20

SECTION A–A 1:2

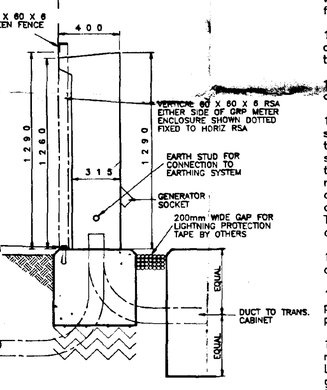
SEE J.A ASSOCIATES DRAWING No. 8065/R/37 (SITE SPECIFIC) FOR ALL TOWER SLAB DETAILS



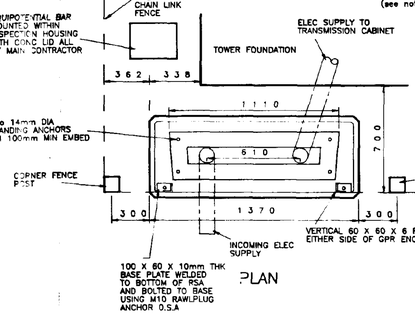
SECTION THRU TOWER FOUNDATION 1:20
INDICATIVE ONLY REFER TO NOTE 1



FRONT ELEVATION

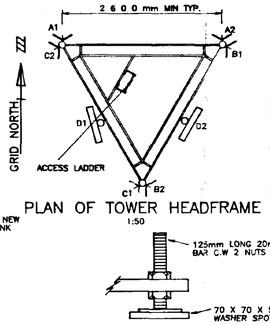


SIDE ELEVATION



PLAN

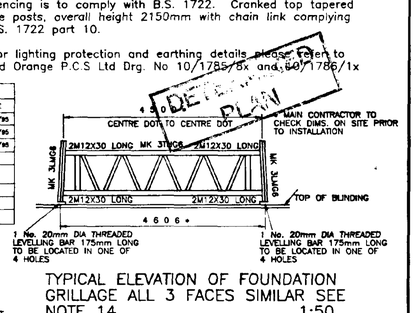
GRP METER ENCLOSURE DETAILS
1:20



PLAN OF TOWER HEADFRAME
1:50

DETAIL OF LEVELLING BAR 1:5

BUILD PACKAGE	
DRAWING STATUS	DATE
SURVEY DONE	23/3/95
SURVEY DRAWING	29/3/95
EQUIPMENT ADDED	29/3/95
FEA LETTER	
DESIGN AND DETAIL DRAWINGS + REPORT	
TENDER ISSUE	
CONSTRUCTION ISSUE	
AS BUILT ISSUE	



TYPICAL ELEVATION OF FOUNDATION GRILLAGE ALL 3 FACES SIMILAR SEE NOTE 14
1:50

30 METER TOWER BY R & T SWANN LTD TYPE B2–3 SEE SCHEDULE BTS 30/B2–3/A. ALL GRILLAGE INFORMATION FROM JOHN ALLEN ASSOCIATES DRG. No. 8065/R/35 AND R&T SWANN LTD

THIS DRAWING CONTAINS INFORMATION DERIVED FROM THE TOWER AND FOUNDATION DESIGN DATA PROVIDED BY R & T SWANN LIMITED AND JOHN ALLEN ASSOCIATES

Architects,Civil & Structural Consultants
Grantham Parsons & Nolan Ltd
2219 Coventry Road
Sheldon, West midlands, B26 3EH
Telephone 0121–742–7462 Fax 0121–742–6865

REV	DATE	DESCRIPTION	BY
2X	11/4/95	COMMUNICATIONS CABIN ADDED	J.A.W

TITLE
30M TOWER
E.M.E SITE
HOLBEACH

SCALE	DRAWN	CHECKED	APPROVED
AS SHOWN	AMG 29/3/95	JMS 29/3/95	

DRAWING NUMBER
10/LIN–0028/01/2X

St James Court
Park Road
Aldbury
Bristol
BS12 4QJ
Tel 0454 624600
Fax 0454 618501

SOUTH HOLLAND DC
HOUSING & PLANNING
18 APR 1995
Ref: 0390/95