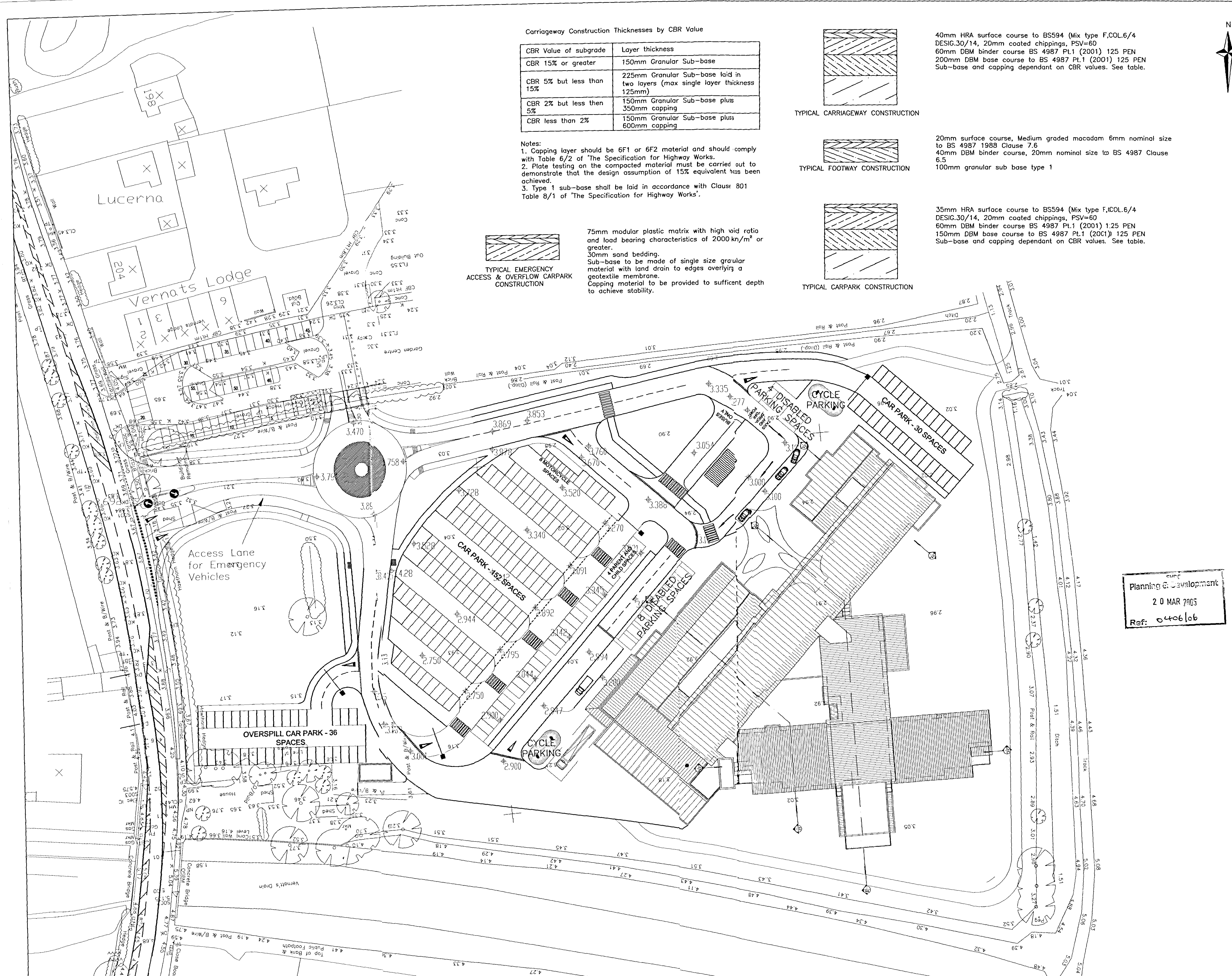
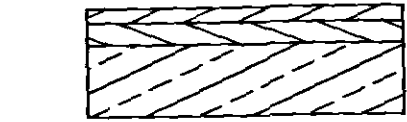




Carriageway Construction Thicknesses by CBR Value

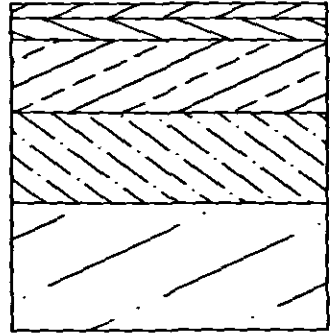
CBR Value of subgrade	Layer thickness
CBR 15% or greater	150mm Granular Sub-base
CBR 5% but less than 15%	225mm Granular Sub-base laid in two layers (max single layer thickness 125mm)
CBR 2% but less than 5%	150mm Granular Sub-base plus 350mm capping
CBR less than 2%	150mm Granular Sub-base plus 600mm capping

Notes:
1. Capping layer should be 6F1 or 6F2 material and should comply with Table 6/2 of 'The Specification for Highway Works'.
2. Plate testing on the compacted material must be carried out to demonstrate that the design assumption of 15% equivalent has been achieved.
3. Type 1 sub-base shall be laid in accordance with Clause 801 Table 8/1 of 'The Specification for Highway Works'.

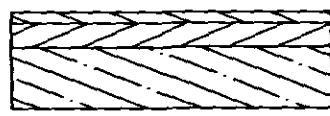


TYPICAL EMERGENCY ACCESS & OVERFLOW CARPARK CONSTRUCTION

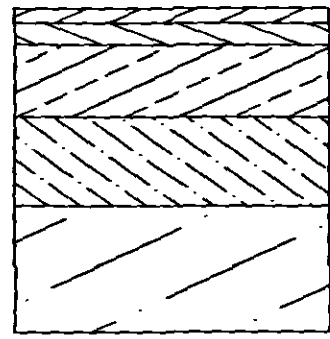
75mm modular plastic matrix with high void ratio and load bearing characteristics of 2000kn/m² or greater.
30mm sand bedding.
Sub-base to be made of single size granular material with land drain to edges overlying a geotextile membrane.
Capping material to be provided to sufficient depth to achieve stability.



TYPICAL CARRIAGEWAY CONSTRUCTION



TYPICAL FOOTWAY CONSTRUCTION



TYPICAL CARPARK CONSTRUCTION

40mm HRA surface course to BS594 (Mix type F,COL6/4 DESIG.30/14, 20mm coated chippings, PSV=60
60mm DBM binder course BS 4987 Pt.1 (2001) 125 PEN
200mm DBM base course to BS 4987 Pt.1 (2001) 125 PEN
Sub-base and capping dependant on CBR values. See table.

20mm surface course, Medium graded macadam 6mm nominal size to BS 4987 1988 Clause 7.6
40mm DBM binder course, 20mm nominal size to BS 4987 Clause 6.5
100mm granular sub base type 1

35mm HRA surface course to BS594 (Mix type F,COL6/4 DESIG.30/14, 20mm coated chippings, PSV=60
60mm DBM binder course BS 4987 Pt.1 (2001) 125 PEN
150mm DBM base course to BS 4987 Pt.1 (2001) 125 PEN
Sub-base and capping dependant on CBR values. See table.

Planning & Development
20 MAR 2005
Ref: 0406106

GENERAL NOTES

This drawing should not be scaled. Dimensions to be verified on site.
Any discrepancies should be referred to the Engineer prior to work being put in hand.

This drawing is the property of Waterman Civils and the drawing is issued on the condition that it is not copied, reproduced, released or disclosed to any unauthorised person, either wholly or in part without the consent in writing of Waterman Civils Limited.
Pickfords Wharf, Clerk Street, London SE1 1RG. 1 020 7928 7888 1 020 7922 0992

NOTES:

1) All works to be carried out in accordance with DMRB Specification for Highway works.

2) Prior to any works being carried out within or immediately adjacent to the public highway, a scheme for the safe control of traffic and pedestrians is to be agreed with the Highway Authority and implemented.

3) Working areas within the vicinity of existing trees are to be agreed with the Engineer and chestnut fencing erected as directed.

4) Special care is to be taken when excavating in the vicinity of existing trees, it is not intended that any tree roots should be severed or damaged and specialist advice should be sought when major roots present a problem. Care is to be taken to avoid damage to branches and foliage.

5) It is the Contractor's responsibility to trace and indicate the precise location and nature of all services.

6) Safe passage for pedestrians across the site is to be ensured at all times during the construction period by means of approved fencing to both sides of any footpath route.

7) The Health and Safety at Work act is to be complied with at all times. Attention is drawn to the wearing of hard hats, reflectorised clothing, and the use of any other required safety equipment.

8) All levels and dimensions are to be checked on site before any work commences.

9) The Developer shall be responsible for liaison with the Statutory Undertakers and other cable services companies for the provision of all required services.

10) All soft spots shall be removed from the bottom of trenches and other excavations and shall be refilled to formation level with the same material as the permanent work, which is to rest on the formation.

11) Water shall not be allowed to accumulate in any part of the works and any water arising from or draining into the works shall be pumped to an approved disposal point.

12) All trench backfill in the highway shall be granular material Type 1 and shall be deposited in unconsolidated layers not exceeding 225mm and then fully compacted to form a stable backfill.

13) The Contractor is to take CBR Tests of road formation level and the Highway Engineer informed before any construction works are carried out on that formation. The engineer may call for representative samples of any materials used in the works for inspection, analysis or tests. The cost of such tests including CBR tests, shall be borne by the Developer.

14) The Contractor is to provide a CCIV survey of any highway sewer on completion of the 12 month maintenance period.

15) Road markings and traffic signs shall be the responsibility of the Developer to provide and install in accordance with the 'Traffic Signs Regulations and General Directions 2002' specifications.

16) Kerb upstand for all new kerbing to be 125mm unless shown otherwise.

17) Where new surfacing lies into existing carriageway, plane out 200mm steps as necessary in each course, joints to be vertical saw cut. Apply bituminous spray to existing impervious surface where overlaid by new bituminous bound material (rate of spray 0.51 l/m²)

18) Existing Surface Covers where required are to be raised or lowered to suit new pavement levels.

Rev	Date	Description	By
C	13/03/05	Revised layout + building relocated	AH
B	20/02/05	General amendment	GHB
A	19/01/05	Standard detail emergency access added	NH

Amendments

Project

SOUTH HOLLAND HOSPITAL

Title

ROAD ACCESS & PARKING GENERAL ARRANGEMENT

Client

LINCOLNSHIRE NHS TRUST

Architect

Watkins Gray International (WGI)

Waterman Civils Consulting Engineers

Lockington Hall Business Centre Lockington DE74 2RH
1 01509 474507 1 01509 674623
mail@waterman-group.co.uk www.waterman-group.co.uk

Drawing Status

Stage C - Outline Design

Designed by	RAJ	Checked by	HJP	Project No	35634
Drawn by	NH	Date	17.01.2006	Computer File No	
Scale	1:500 @ A1				
work to figure dimensions only					
Publisher	Zone	Category	Number	Revision	
WC	SA	90	005	C	