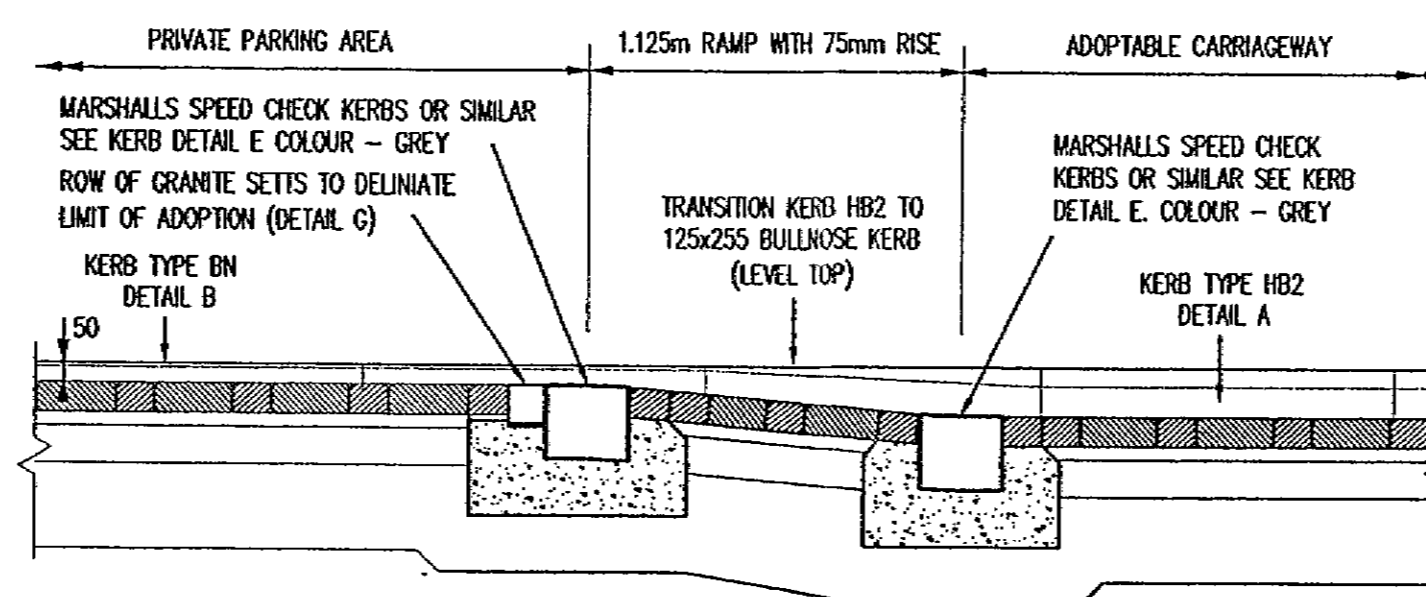


**Section D-D**

Scale 1:20

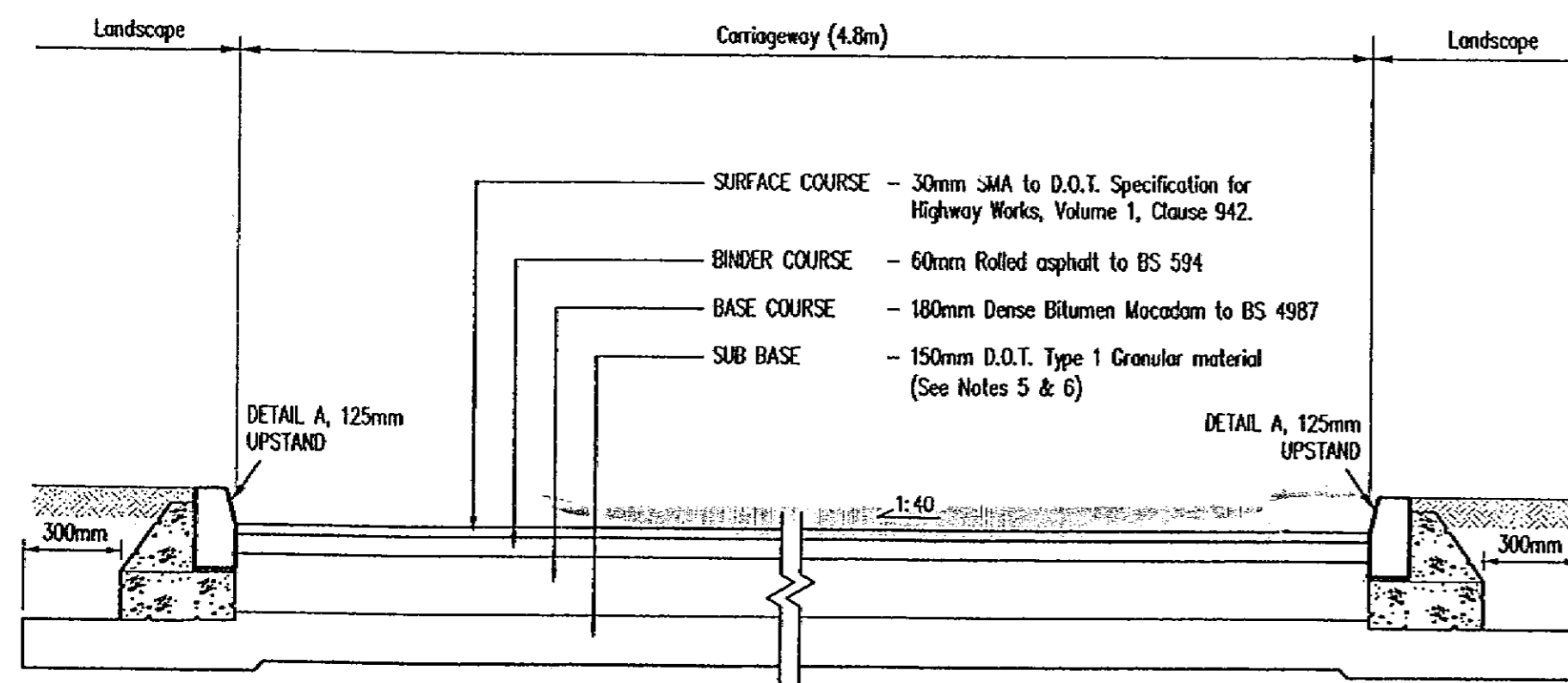
NOTE:

1) CARRIAGEWAY MARKINGS ON RAISED TABLE SHALL BE IN FORMED USING WHITE BLOCKS



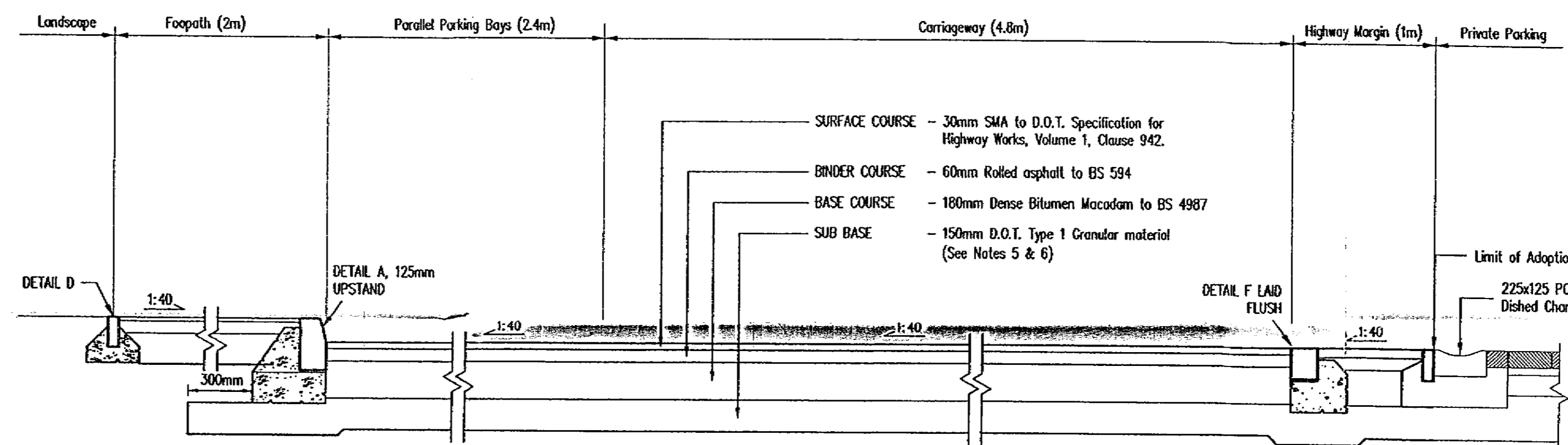
**Section F-F**

Scale 1:20



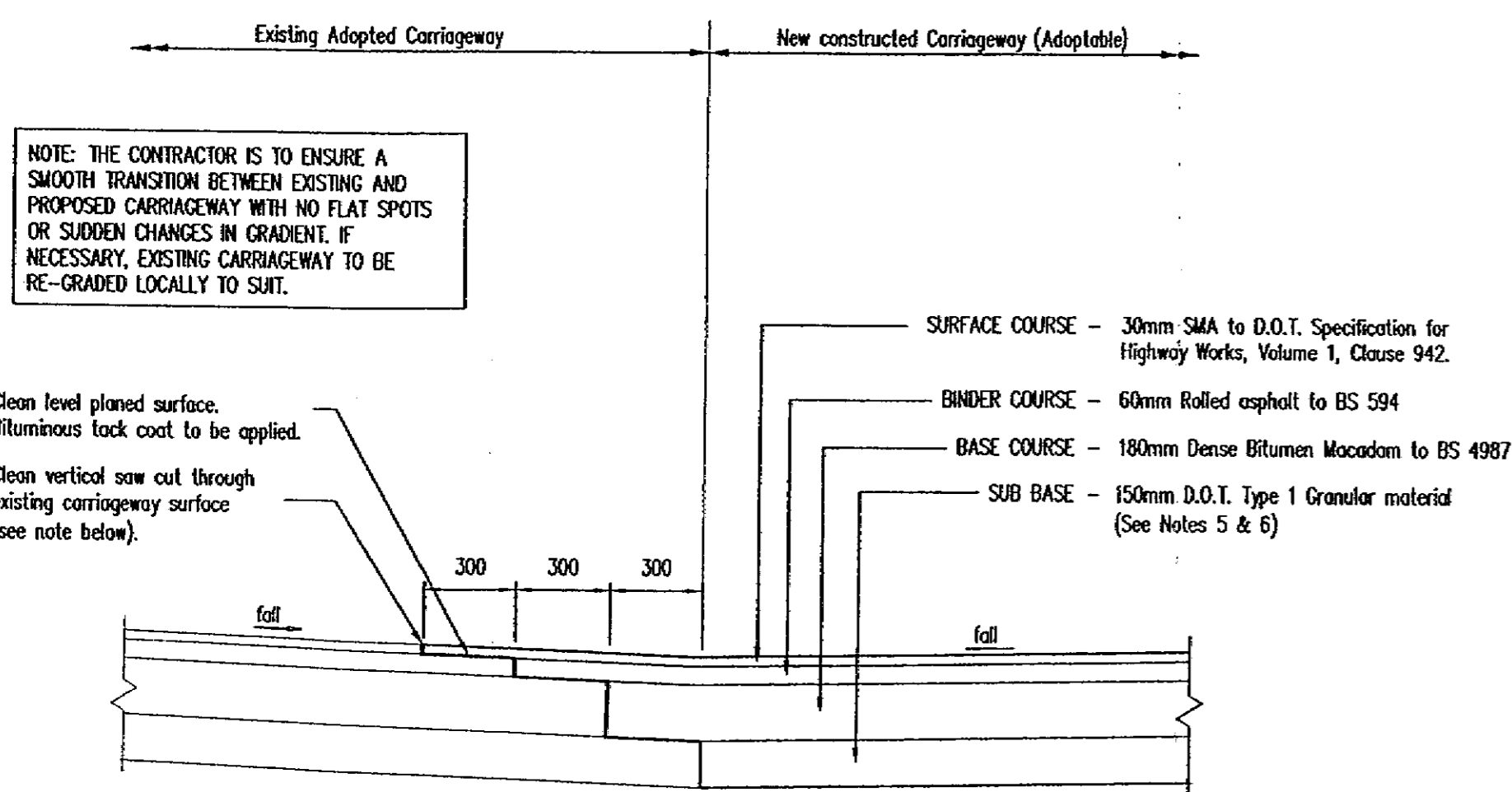
**Section B-B**

SCALE 1:20



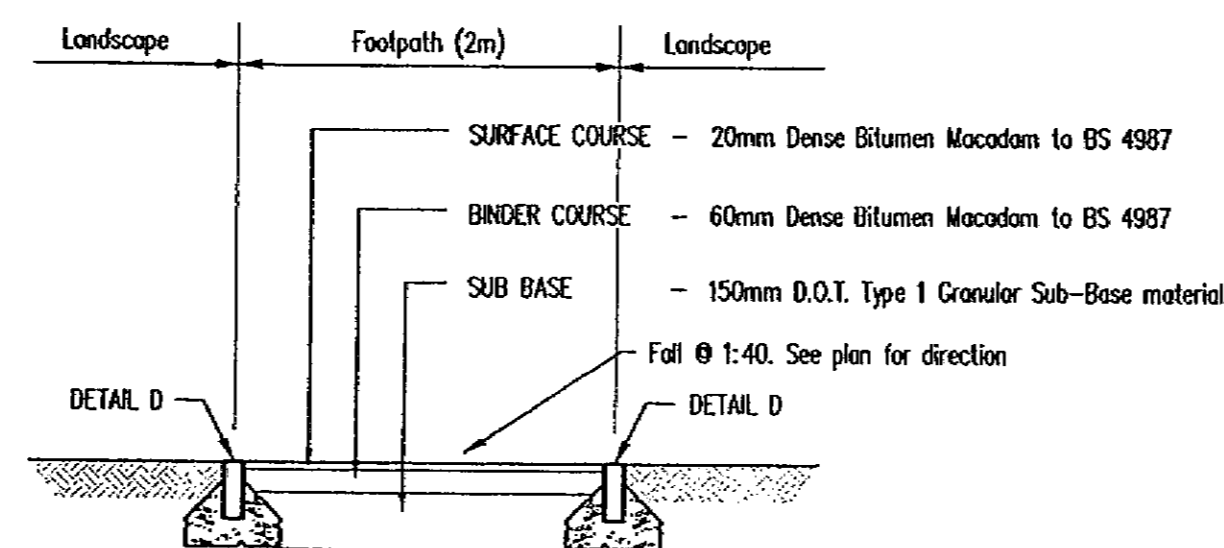
**Section E-E**

SCALE 1:20



**Section A-A**

SCALE 1:20



**Section C-C**

SCALE 1:20

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEER'S DRAWINGS. ANY DISCREPANCIES FOUND BETWEEN INFORMATION SHOWN ON THIS OR ANY OTHER DRAWING SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY AND PRIOR TO ANY WORKS COMMENCING ON SITE.
- IT IS THE DEVELOPER'S RESPONSIBILITY TO ENSURE THAT ALL SERVICES THAT ARE LIKELY TO BE AFFECTED BY THE PROPOSED WORKS ARE LOCATED PRIOR TO WORKS COMMENCING. TRIAL HOLES ARE TO BE DUG IF NECESSARY. WHERE NECESSARY SERVICE MAINS SHALL BE DIVERTED STRICTLY IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT UNDERTAKER.
- ALL CONCRETE AT OR BELOW GROUND LEVEL ON SITE SHALL BE ABLE TO WITHSTAND CLASS DS-1 / AC-1 SULPHATE CONCENTRATIONS IN ACCORDANCE WITH THE BRE DIGEST 363.
- THE CARRIAGEWAY FORMATION SHALL BE PROOF ROLLED. ANY SOFT SPOTS FOUND SHALL BE REPLACED WITH CAPPING MATERIAL AND COMPACTED IN LAYERS IN ACCORDANCE WITH DOT SPECIFICATION FOR HIGHWAY WORKS. FORMATION SHALL BE INSPECTED PRIOR TO LAYING CAPPING / SUB-BASE AND ANY BRICK OR MATERIAL LIKELY TO DECOMPOSE REMOVED AND FORMATION SPRAYED WITH AN APPROVED WEED KILLER IN ACCORDANCE WITH 'ROADS IN HERTFORDSHIRE - A GUIDE FOR NEW DEVELOPMENTS' SECTION 3 PART 1 CHAPTER 9 CLAUSE 4 (3-1-9.4).
- THE SUB-BASE THICKNESS SHOWN ARE BASED UPON A CBR VALUE OF 20% AS DESCRIBED IN IAN FARMER ASSOCIATED GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION REPORT Ref. 5831 APRIL 2004.
- CONTRACTOR TO UNDERTAKE IN-SITU CBR TESTS AT CARRIAGEWAY FORMATION (SUB-GRADE) LEVEL AND THE RESULTS REPORTED TO THE ENGINEER IMMEDIATELY. SHOULD TO CBR VALUE VARY FROM 20% THEN THE SUB-BASE LAYER REQUIREMENTS SHALL BE ADJUSTED. (SEE TABLE BELOW)
- ALL ADAPTABLE ROAD WORKS SHALL BE UNDERTAKEN STRICTLY IN ACCORDANCE WITH THE HERTFORDSHIRE COUNTY COUNCIL PUBLICATION ENTITLED 'ROADS IN HERTFORDSHIRE - A GUIDE FOR NEW DEVELOPMENTS'. IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN A COPY OF THIS DOCUMENT.

**CARRIAGEWAY SUB-BASE/CAPPING LAYER REQUIREMENTS:-**

CBR VALUE ON SUB-GRADE	SUB-BASE (DOT TYPE 1 MATERIAL)	CAPPING (APPROVED CLASS 6F1/6F2 CAPPING MATERIAL)
> 30%	Not Required	Not Required
15% - 30%	150mm MIN	Not Required
5% - 15%	225mm MIN	Not Required
2.5-5% either or -	350mm MIN 150mm MIN	Not Required 350mm MIN
< 2.5%	150mm MIN	600mm MIN

NOTE - THE CBR VALUE ON COMPACTED CAPPING MATERIAL SHALL BE AT LEAST 15%.

REV	DATE	DESCRIPTION	BY	CHK
B	Sep' 05	SECTION D-D BEDDING COURSE THICKNESS INCREASED AND RAMP CONSTRUCTION AMENDED IN ACCORDANCE WITH HERTFORDSHIRE HIGHWAYS CATEGORY B DESIGN CHECK DATED 24/08/2005. WEED KILLER REFERENCE ADDED TO NOTE 4.	AJV	
C	Dec' 05	SUB-BASE BELOW KERB BED AND HAUNCH EXTENDED BY 300mm ON SECTIONS B-B & E-E IN ACCORDANCE WITH HERTFORDSHIRE HIGHWAYS CATEGORY B DESIGN CHECK DATED 03/11/2005. CLIENT NAME AMENDED.	AJV	

**CARRIAGEWAY MATERIAL SPECIFICATION**

**SUB-BASE** - SUB-BASE MATERIAL SHALL BE CRUSHED ROCK, CRUSHED SLAG, CRUSHED CONCRETE OR WELL BURNED NON PLASTIC SHALE IN ACCORDANCE WITH THE GRADING LIMITS OF DOT SPECIFICATION FOR HIGHWAY WORKS' CLAUSE 603. THE MATERIAL / LAYING / COMPACTION SHALL BE IN ACCORDANCE WITH HERTFORDSHIRE DESIGN GUIDE SECTION 3, PART 1, CHAPTER 8 CI 8.1-8.17.

**BASE (ROADBASE) COURSE** - DENSE BITUMEN MACADAM BASE COURSE TO BS4987 2003 PART 1 CLAUSE 5.2, 150mm COMPACTED THICKNESS, 32mm NOMINAL SIZE AGGREGATE, 40/60 PEN BINDER WITH NO FLUXING NOR CUT BACK PERMITTED. BINDER COURSE TO BE MACHINE LAID. COURSE SHALL BE LAID IN 2 LAYERS AND COMPACTED IN ACCORDANCE WITH BS4987. THE MATERIAL / LAYING / COMPACTION SHALL BE IN ACCORDANCE WITH HERTFORDSHIRE DESIGN GUIDE SECTION 3, PART 1, CHAPTER 8 CI 8.1-8.17.

**BINDER COURSE** - BINDER COURSE MATERIAL SHALL BE ROLLED ASPHALT, 60/20 DESIGNATION TO TABLE 2 COLUMN 5 OF BS594 PART 1 1992. THE MATERIAL / LAYING / COMPACTION SHALL BE IN ACCORDANCE WITH HERTFORDSHIRE DESIGN GUIDE SECTION 3, PART 1, CHAPTER 8 CI 8.1-8.17. BINDER SHALL BE 50 PEN BITUMEN.

**SURFACE COURSE** - SMA SURFACE COURSE IN ACCORDANCE WITH D.O.T. SPECIFICATION FOR HIGHWAY WORKS, VOLUME 1, CLAUSE 942. THE MATERIAL / LAYING / COMPACTION SHALL BE IN ACCORDANCE WITH HERTFORDSHIRE DESIGN GUIDE SECTION 3, PART 1, CHAPTER 8 CI 8.1-8.17.

**FOOTPATH MATERIAL SPECIFICATION**

**BINDER COURSE** - DENSE BITUMEN MACADAM BINDER COURSE TO BS4987 2003 PART 1 CLAUSE 6.5, 60mm COMPACTED THICKNESS, 20mm NOMINAL SIZE AGGREGATE, 40/60 PEN BINDER WITH NO FLUXING NOR CUT BACK PERMITTED. BINDER COURSE TO BE MACHINE LAID. THE MATERIAL / LAYING / COMPACTION SHALL BE IN ACCORDANCE WITH HERTFORDSHIRE DESIGN GUIDE SECTION 3, PART 1, CHAPTER 8 CI 8.1-8.17.

**SURFACE COURSE** - DENSE BITUMEN MACADAM SURFACE COURSE TO BS4987 2003 PART 1 CLAUSE 7.5, 20mm COMPACTED THICKNESS, 6mm NOMINAL SIZE AGGREGATE, 100/150 PEN BINDER WITH NO FLUXING NOR CUT BACK PERMITTED. THE MATERIAL / LAYING / COMPACTION SHALL BE IN ACCORDANCE WITH HERTFORDSHIRE DESIGN GUIDE SECTION 3, PART 1, CHAPTER 8 CI 8.1-8.17.

STATUS  
**SUBJECT TO TECHNICAL APPROVAL**

This drawing is the property and copyright of the Consulting Engineer and shall not without written consent be communicated to a third party.

CLIENT  
**DURKAN Ltd**

SITE  
**LEMSFORD LANE  
WELWYN GARDEN CITY**

TITLE  
**Adoptable Carriageway Construction  
Details, Sheet 1 of 2**

**SDP**  
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SCALE	DRAWN	DATE
SEE DWG @ A1	AVJ	April 2005
	CHECKED	PASSED
	PB 14.04.05	
DRAWING NO.	REV.	
E04-067-107		C