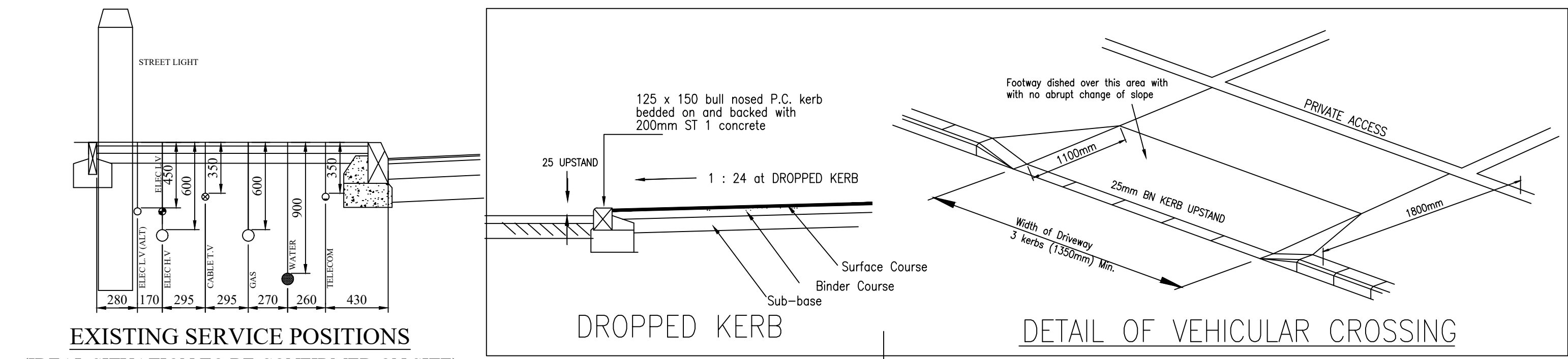
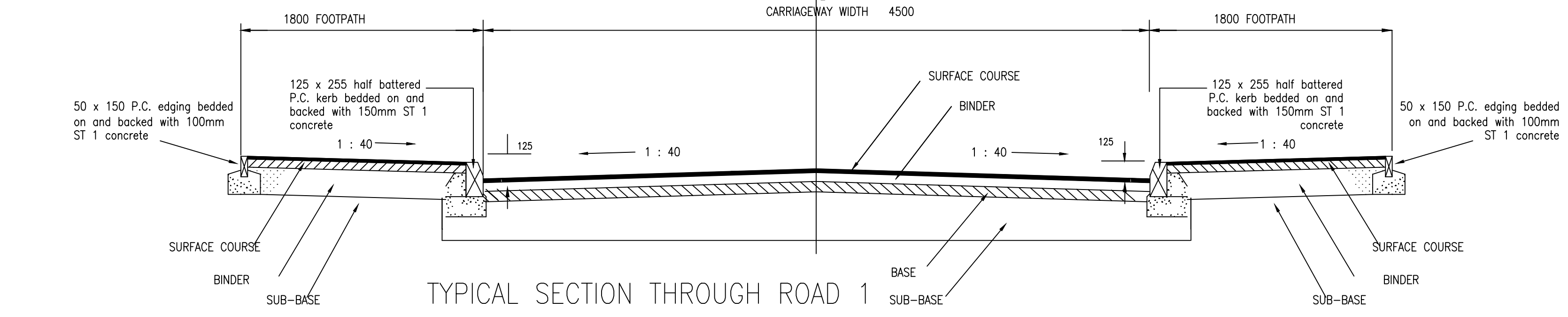
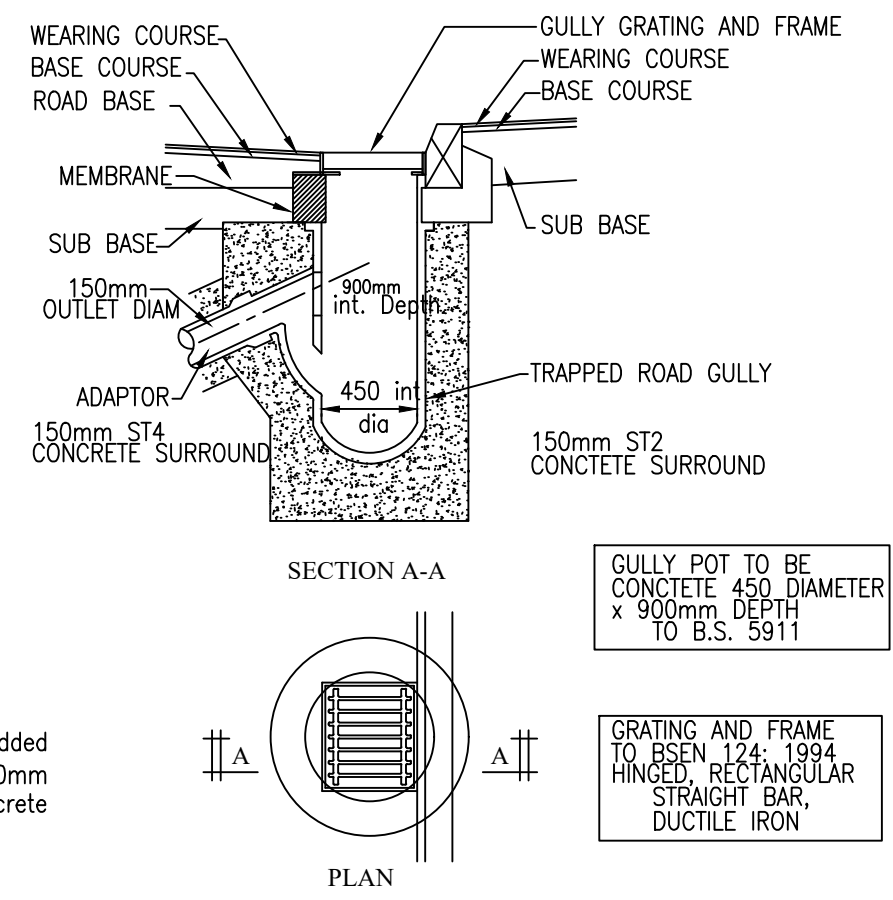




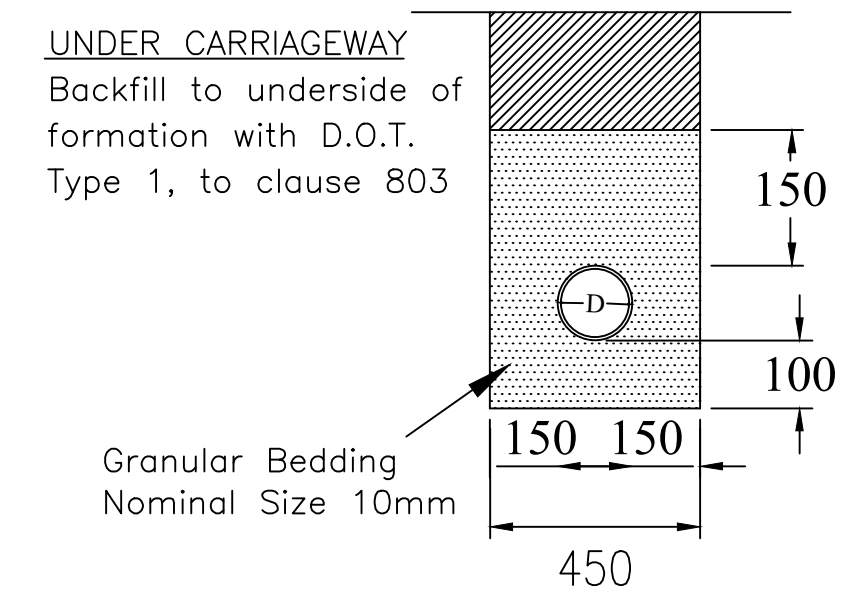
EXISTING SERVICE POSITIONS
(IDEAL SITUATION TO BE CONFIRMED ON SITE)



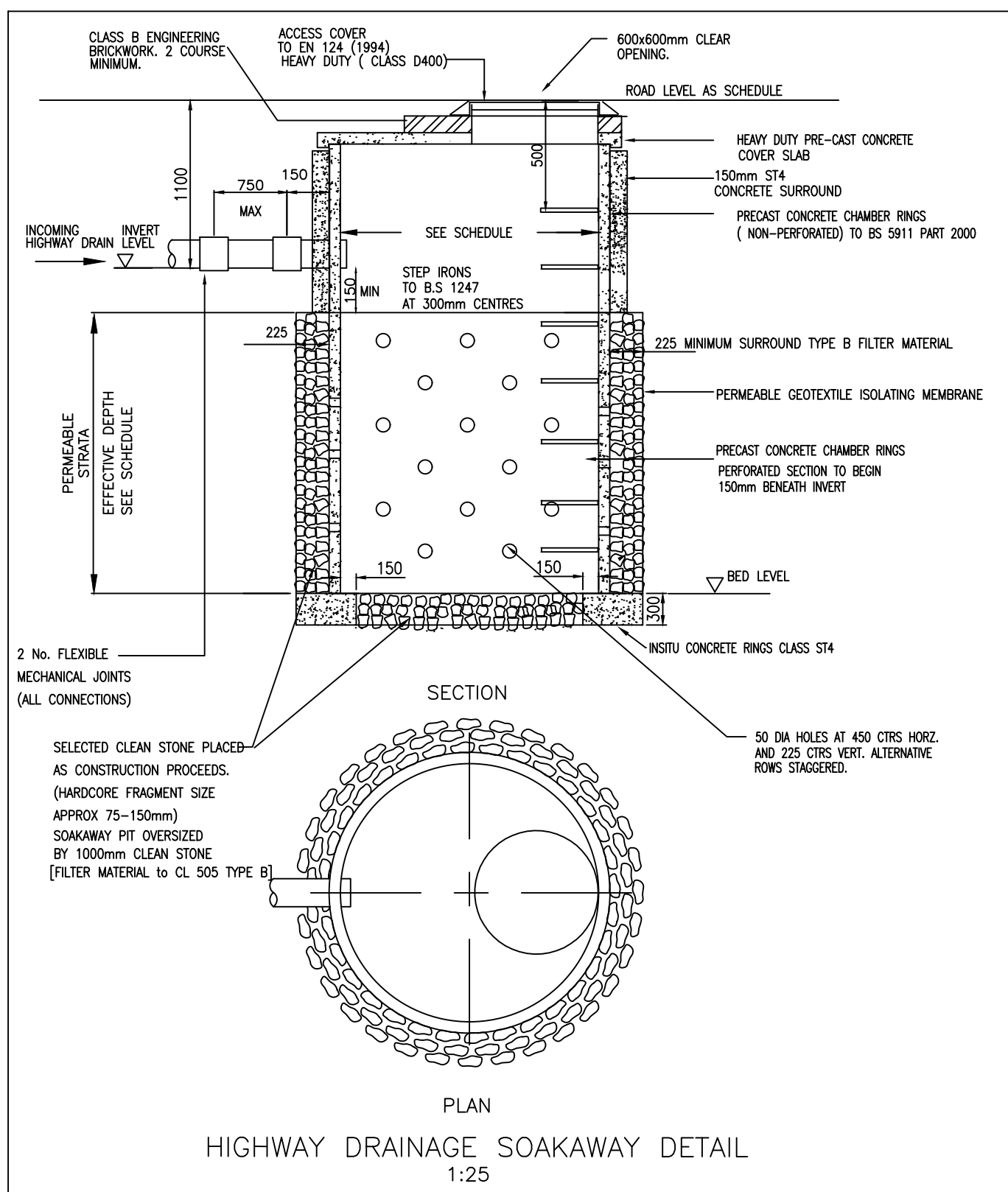
TYPICAL SECTION THROUGH ROAD 1



TRAPPED GULLY DETAIL



BEDDING CLASS S
DRAINAGE UNDER ROADS



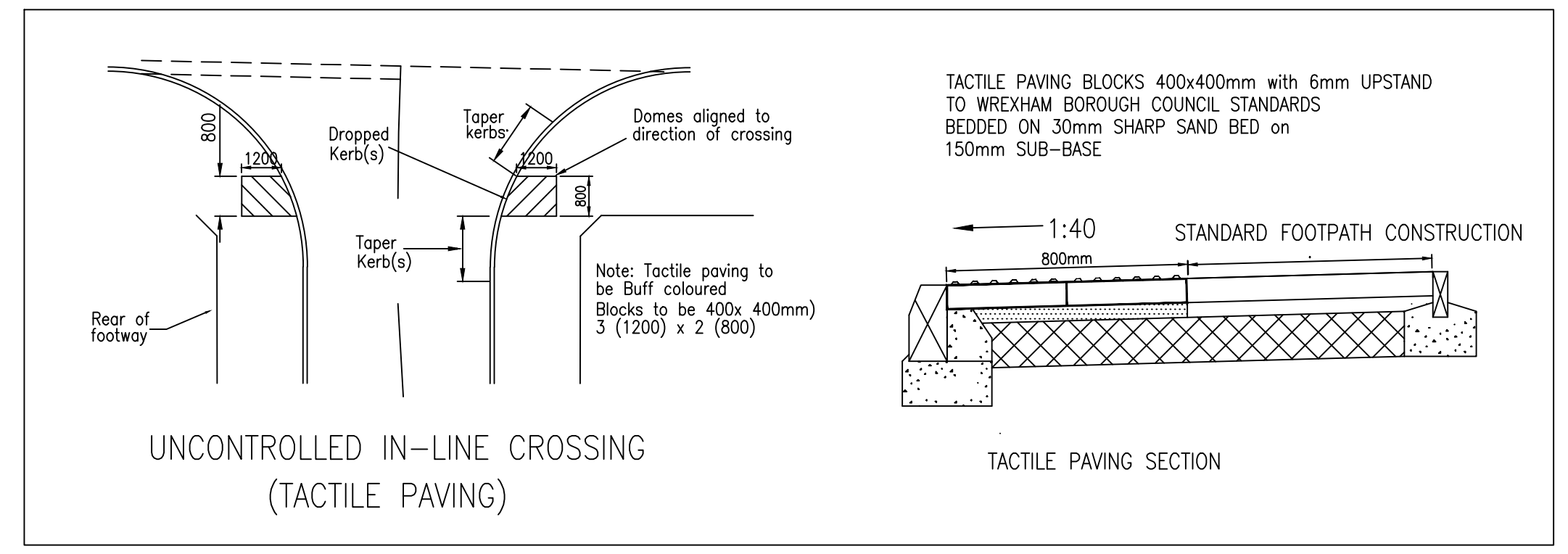
HIGHWAY DRAINAGE SOAKAWAY DETAIL
1:25

	ROAD LEVEL (m)	INVERT LEVEL (m)	DEPTH (m)	BED LEVEL (m)	INCOMING PIPE DIA. (mm)	MANHOLE INTERNAL DIA. (mm)	AREA DRAINED:
HD1	131.15	130.08	4.60	126.65	150	1500	413m2
HD2	131.80	130.70	1.90	129.90	150	1200	90m2

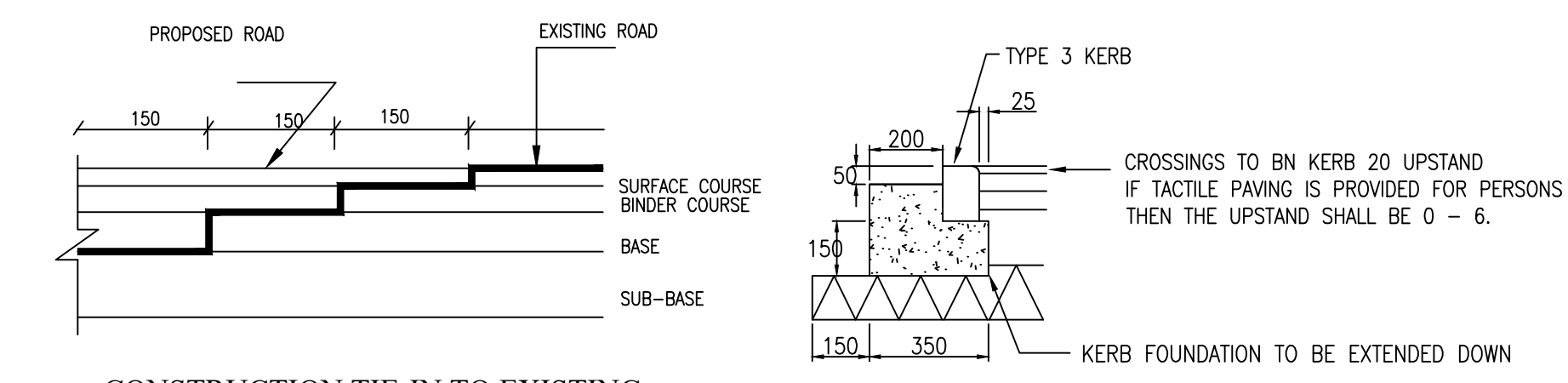
NOTE:
1. SOAKAWAYS TO TAKE HIGHWAY DRAINAGE ONLY.
2. SOAKAWAYS DESIGNED TO TAKE 100 YEAR STORM+CLIMATE CHANGE.
3. SOAKAWAY WIDTHS/DEPTHS MAY BE VARIED IF AGREED. OVERALL VOLUME TO REMAIN CONSTANT

ROAD CONSTRUCTION DETAILS					
	MATERIAL	B.S. EN 13108 Section REF.	NOMINAL AGGREGATE SIZE	THICKNESS OF LAYER (mm)	
				PSV	
SURFACE COURSE	STONE MASTIC ASPHALT (SMA) surface 40/60	SECTION 5	10mm	40mm	60
	HOT ROLLED ASPHALT SEE NOTE 5	SECTION 4	14mm	45mm	60
BINDER COURSE	ASPHALT CONCRETE BINDER 100/150	SECTION 1	20mm	60mm	
BASE	ASPHALT CONCRETE BINDER 100/150	SECTION 1	32mm	100mm	
	Granular Type 1	D.O.T. Clause 803	-	240mm	
SUB-BASE	Granular Type 1	D.O.T. Clause 803	-	240mm	
CAPPING LAYER	Type 6F2	D.O.T.	-	210mm	based on 5%
TOTAL THICKNESS (mm)				760/765mm	

NOTE:
1. CBR TESTS AT CHAINAGE 30m, 80m, TURNING HEAD = 10%, 5% 9%: SEE TABLE:
2. CBR TEST AT CHAINAGE 45m = 1%: 350 SUB-BASE 250 CAPPING



UNCONTROLLED IN-LINE CROSSING
(TACTILE PAVING)

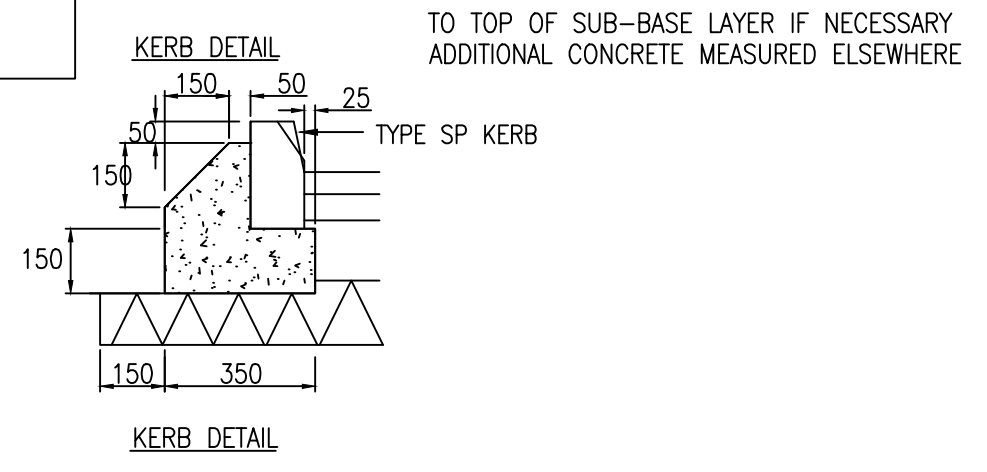
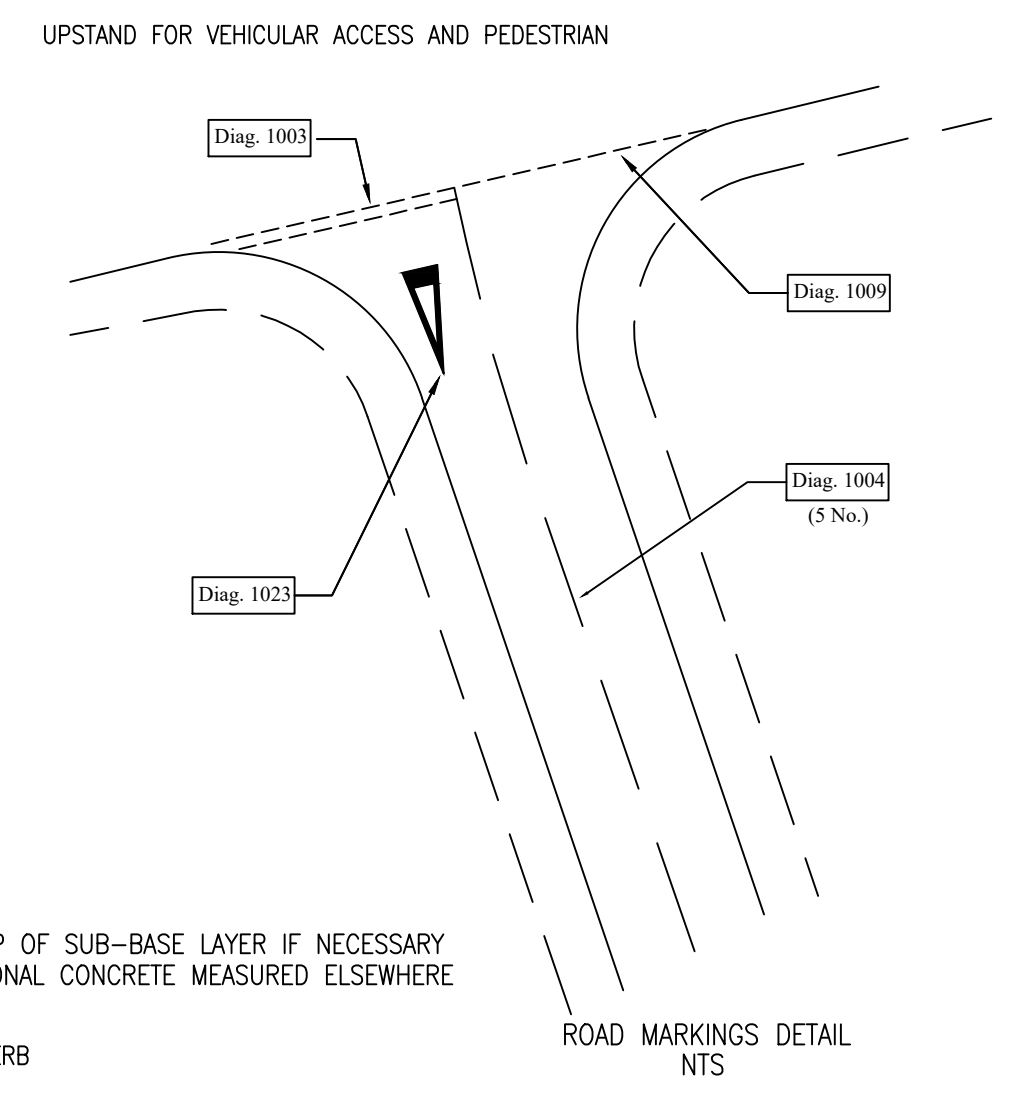


CONSTRUCTION TIE-IN TO EXISTING

FOOTPATH CONSTRUCTION DETAILS: 1.8m WIDTH					
LAYER	MATERIAL	B.S. EN 13108 Section REF.	NOMINAL AGGREGATE SIZE	THICKNESS OF LAYER (mm)	
				FOOTPATH	VEHICLE CROSSOVERS
SURFACE COURSE	ASPHALT CONCRETE BINDER 160/220	SECTION 1	6mm	20mm	20mm
	ASPHALT CONCRETE BINDER 160/220	SECTION 1	20mm	40mm	60mm
SUB-BASE	Granular Type 1	D.O.T. Clause 803	-	100mm	150mm
TOTAL THICKNESS (mm)				160mm	230mm

CAPPING/SUB-BASE THICKNESS		
CBR%	Capping	Sub-base
2.5	250mm	350mm
3	240mm	320mm
4	230mm	270mm
5	210mm	240mm
6	200mm	220mm
7	200mm	210mm
8	190mm	200mm
9	180mm	190mm
10	170mm	180mm
11	170mm	170mm
12	160mm	160mm
13	160mm	160mm
14	150mm	150mm
15 and greater	150mm	150mm

TABLE TAKEN FROM "WREXHAM COUNCIL RESIDENTIAL ROADS AND FOOTPATHS" APPENDIX D
CBR VALUES TO BE CONFIRMED ON SITE



- KERBS TO BE MANUFACTURED TO STANDARDS OF BS7263 PART 1.
- KERBS TO BE LAID ON 10mm DESIGNATION (ii) MORTAR ON PREPARED FOUNDATION. ALTERNATIVELY LAY KERBS ON WELL COMPACTED BED OF SEMIDRY CONCRETE, MAX 35 SLUMP, ALL IN ACCORDANCE WITH BS7263 PART 2.

- NOTES
- All earthworks and road works shall comply with the requirements of the National Assembly for Wales Specification for Highway Works (SHW) including amendments, unless stated otherwise. Information below and elsewhere on this drawing are intended to comply with the latest specification. Should there be any discrepancies please contact Kane Design.
 - All unreinforced concrete bedding and backing to kerbs and edgings shall be low slump designated mix GEN 0 or standard mix ST1 in accordance with BS 5328 : 1991
 - Precast concrete kerbs and edgings shall comply with BS 7263
 - Workmanship for concrete works shall comply with BS 8000 : Section 2 : 1990
 - Hot Rolled Asphalt surface course shall be to Clause 911 SHW, and to BS13108 Section 4: with 50% pen binder and minimum target binder content of 7.3%. At target binder content the minimum stability shall be 5500 N, the maximum flow 4mm and the minimum Marshall Quotient 1.4 N/mm . Coated chippings to clause 915 SHW, shall be 20mm nominal size and applied to give 1.5mm average texture depths when measured to clause 921 SHW and a 60% shoulder to shoulder cover at roundabouts. Minimum Polished stone value of chippings shall be 60mm.
 - The use of crushed limestone rock shall not be permitted in any wearing course layer
 - The rear edges of all footways must present smooth flowing alignments and should not undulate to accommodate private drives
 - Sub-grade improvement (capping) layer material to be Class 6F2 to DOT Specification Clause 6/3
 - The total carriageway thickness shall be a minimum of 450mm on frost susceptible sub grades.
 - Service strips to be grass seeded using Mix A as defined by National Assembly for Wales Specification
 - Sub -base thickness to be finalised at the time of construction after CBR testing of the road sub-base
 - Road markings and signs refer to the "Traffic Signs Regulations and General Directions 2002" by the Department of Transport.

PENDING HIGHWAYS APPROVAL
PRELIMINARY

A	SOAKAWAY SCHEDULE REVISED	14:7:17	AK	AK
Rev	Description	Date	Drwn	Chkd

KANE DESIGN
Civil Engineering Design

15 Winchester Way
Gresford
Wrexham
LL12 8HH
Tel: 01 978 855888

Client
S.G. ESTATES Ltd

Project
PROPOSED DEVELOPMENT at
PONT ADAM, RUABON, WREXHAM LL14 6EG

Title
ROAD CONSTRUCTION DETAILS

DRAWING NUMBER 1348/03	SCALE NTS		
	DATE	03:05:17	REVISION A
	DRAWN	AK	
	CHECKED	A.K	