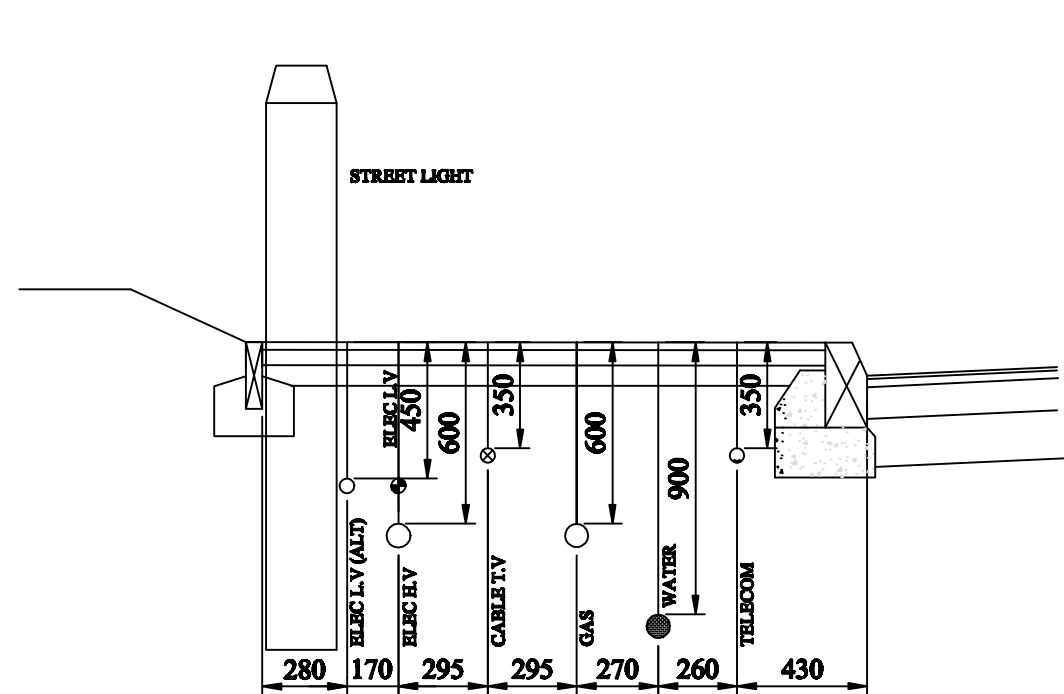
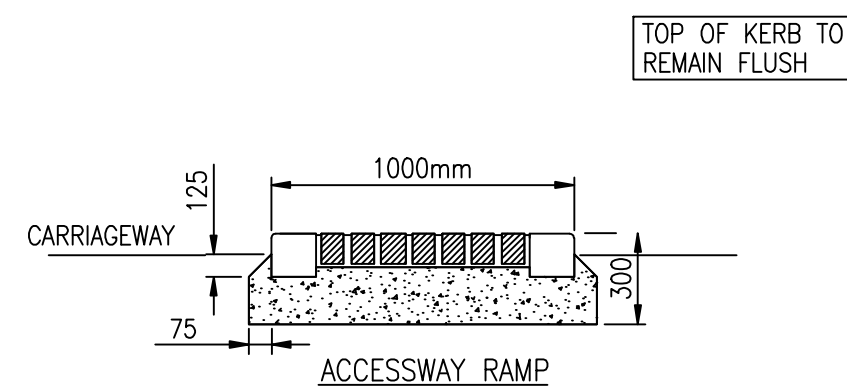


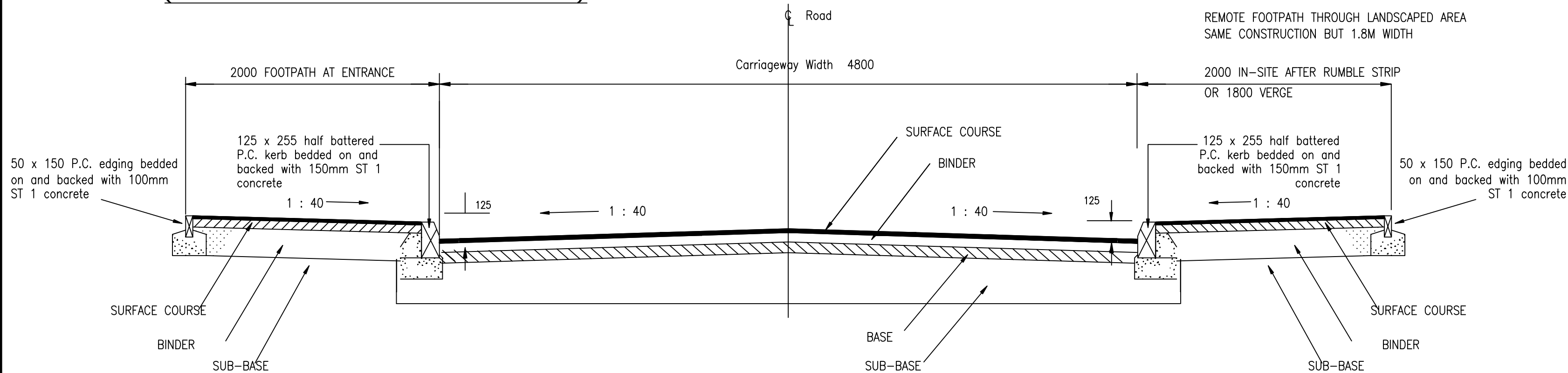


EXISTING SERVICE POSITIONS
(IDEAL SITUATION TO BE CONFIRMED ON SITE)



NOTES

- EDGE RESTRAINT TO BE 125 x 150 BN KERBS TYPE BN2
- CONCRETE BASE TO BE C10 OR ST2 LAID ON 150mm MIN THICKNESS OF GRANULAR SUB BASE TYPE 1.
- REMAINDER OF STRIP TO BE 100 x 100 NOMINAL SIZE GRANITE SETS BEDDED IN DESIGNATED (ii) MORTAR WITH 15 RECESSED JOINTS OR 65 THICK BRICK / CONCRETE PAVERS LAID IN HERRINGBONE PATTERN ON 35 NATURALLY OCCURRING SILICA SAND COMPLYING WITH TABLE 2 BS 6717 PART 3 BUT WITH NOT MORE THAN 2% BY MASS PASSING A 75 SIEVE. THE GAP FILLING SAND SHALL BE NATURALLY OCCURRING SILICA SAND COMPLYING WITH ABOVE.



TYPICAL SECTION THROUGH ROAD 1

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	
SUB-BASE	Granular Type 1	D.O.T. Clause 803	-	320mm	
CAPPING LAYER	Type 6F2	D.O.T.	-	240mm	

TOTAL THICKNESS (mm) 760/765mm
* If CBR value is LESS than 2% , subbase thickness = 150mm capping layer = 600mm
If CBR value is GREATER than 5%, subbase thickness = 245mm. no capping layer

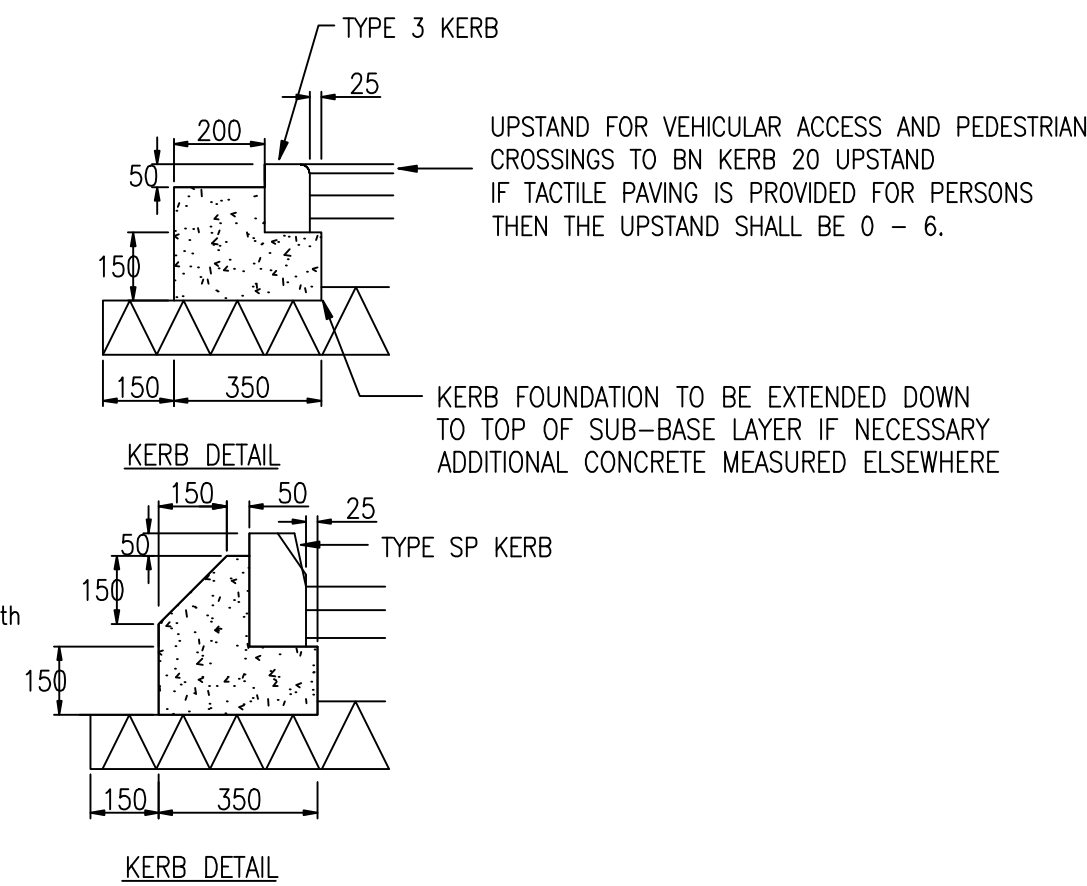
* Based upon a CBR value at road formation level of 3% CBR TO BE CONFIRMED

FOOTPATH CONSTRUCTION DETAILS					
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
BINDER COURSE	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

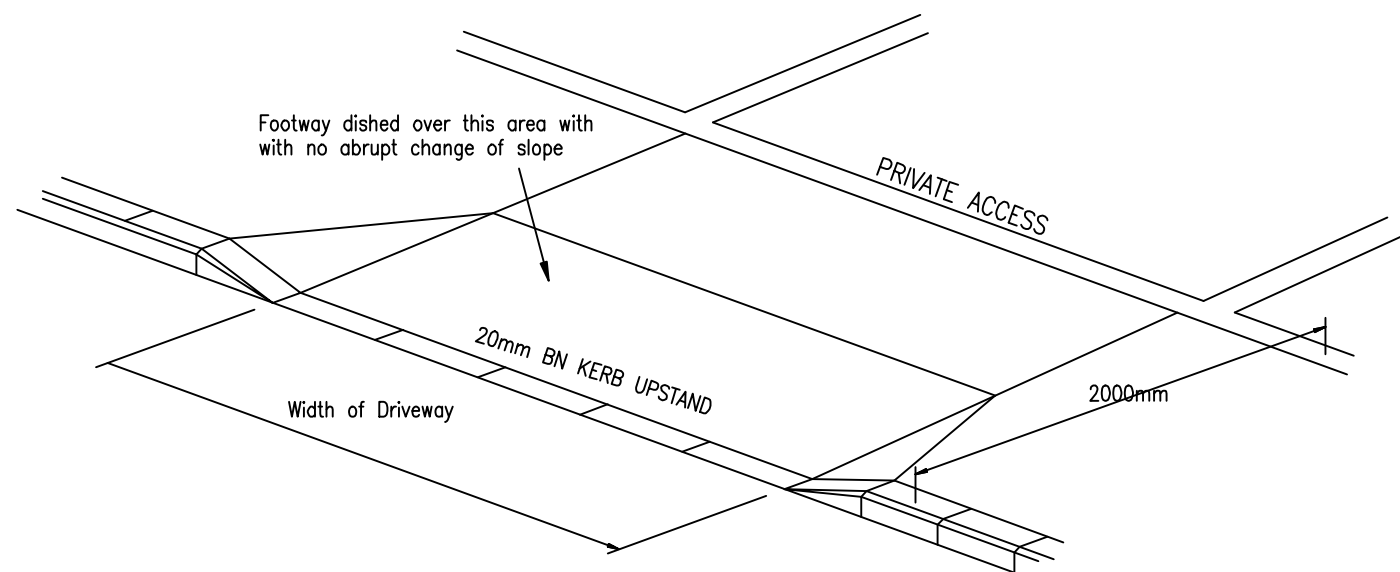
CAPPING/SUB-BASE THICKNESS		
CBR%	Capping	Sub-base
2,5	250mm	350mm
3	240mm	320mm
4	230mm	270mm
5	210mm	240mm
6	200mm	220mm
7	200mm	210mm
8	190mm	200mm
9	180mm	190mm
10	170mm	180mm
11	170mm	170mm
12	160mm	160mm
13	160mm	160mm
14	150mm	150mm
15 and greater	150mm	150mm

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

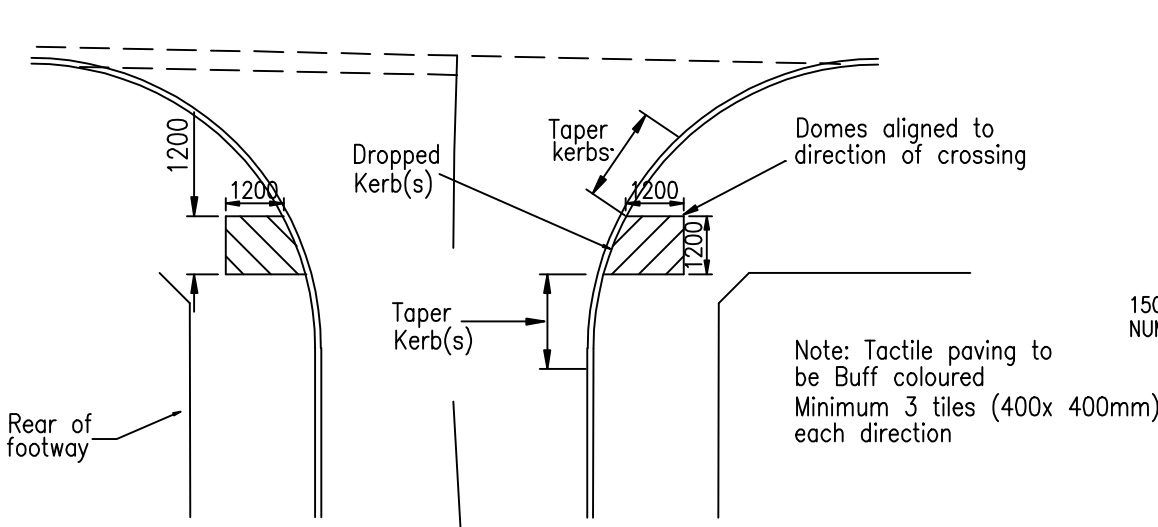


GENERAL NOTES

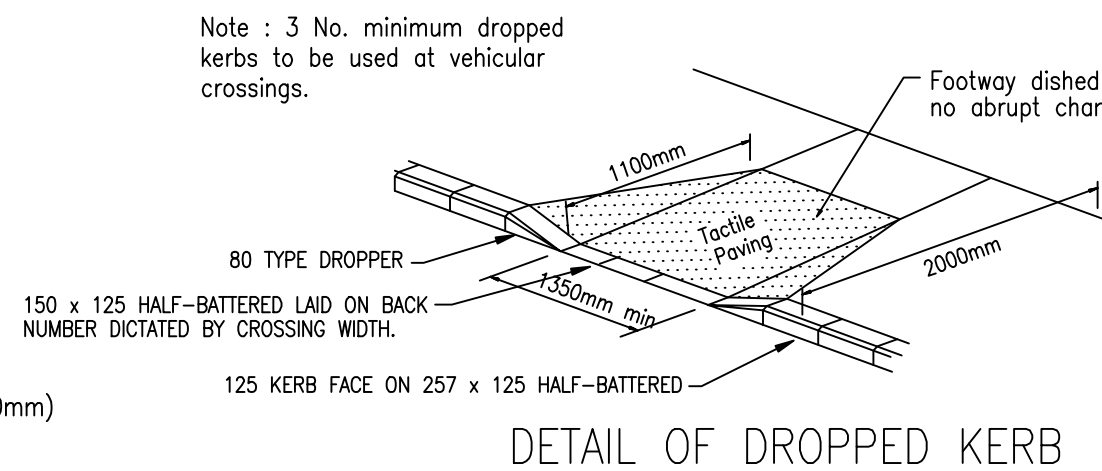
- KERBS TO BE MANUFACTURED TO STANDARDS OF BS7263 PART 1.
- KERBS TO BE LAID ON 10mm DESIGNATION (ii) MORTAR ON PREPARED FOUNDATION. ALTERNATIVELY LAY KERBS ON WELL COMPACTED BED OF SEMIDRY CONCRETE, MAX 35 SLUMP, ALL IN ACCORDANCE WITH BS7263 PART 2.



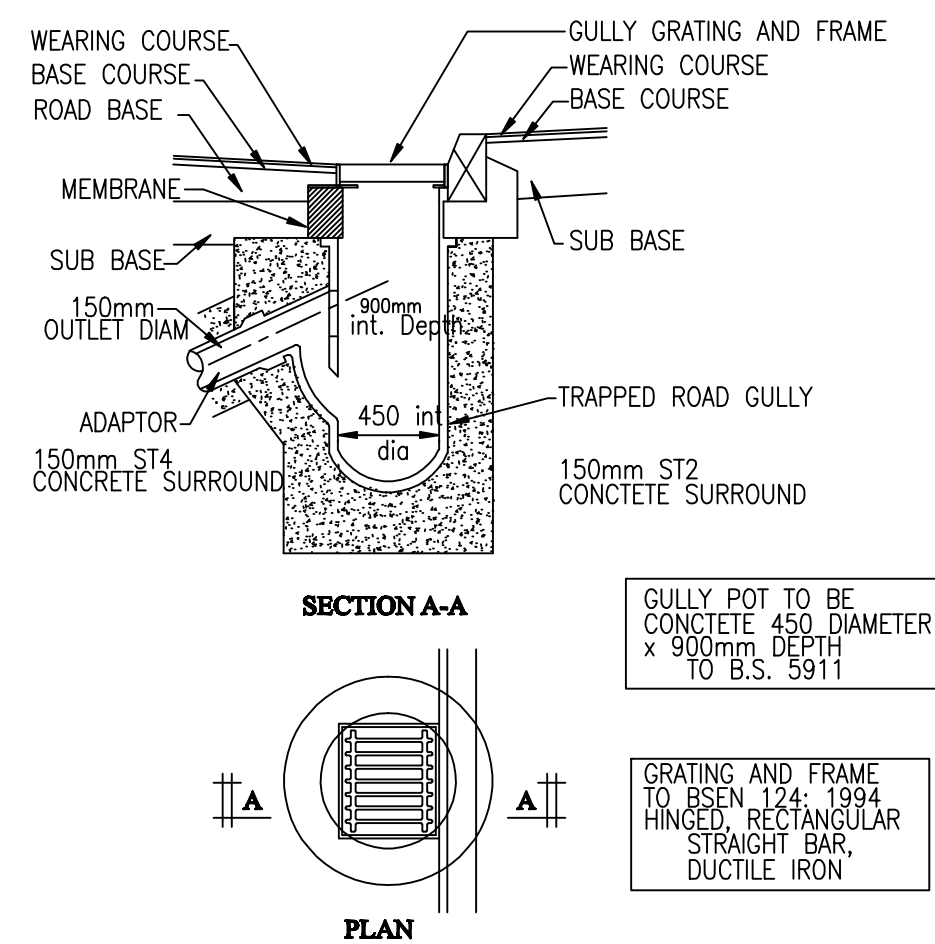
DETAIL OF VEHICULAR CROSSING



UNCONTROLLED IN-LINE CROSSING
(TACTILE PAVING)
NTS



DETAIL OF DROPPED KERB



TRAPPED GULLY DETAIL

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 wearing 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 and WELSH WATER APPROVAL
PRELIMINARY

A	HIGHWAY AMENDMENTS ADDED	20:3:14	AK	AK
Rev	Description	Date	Drwn	Chkd

KANE DESIGN

Civil Engineering Design

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

Client
HEED DEVELOPMENTS LTD

Project
PROPOSED DEVELOPMENT at
WERN SCHOOL, RHOS, WREXHAM

Title
ROAD CONSTRUCTION DETAILS

DRAWING NUMBER	SCALE NTS		
	DATE	8:11.13	REVISION
	DRAWN	AK	A
	CHECKED	A.K.	