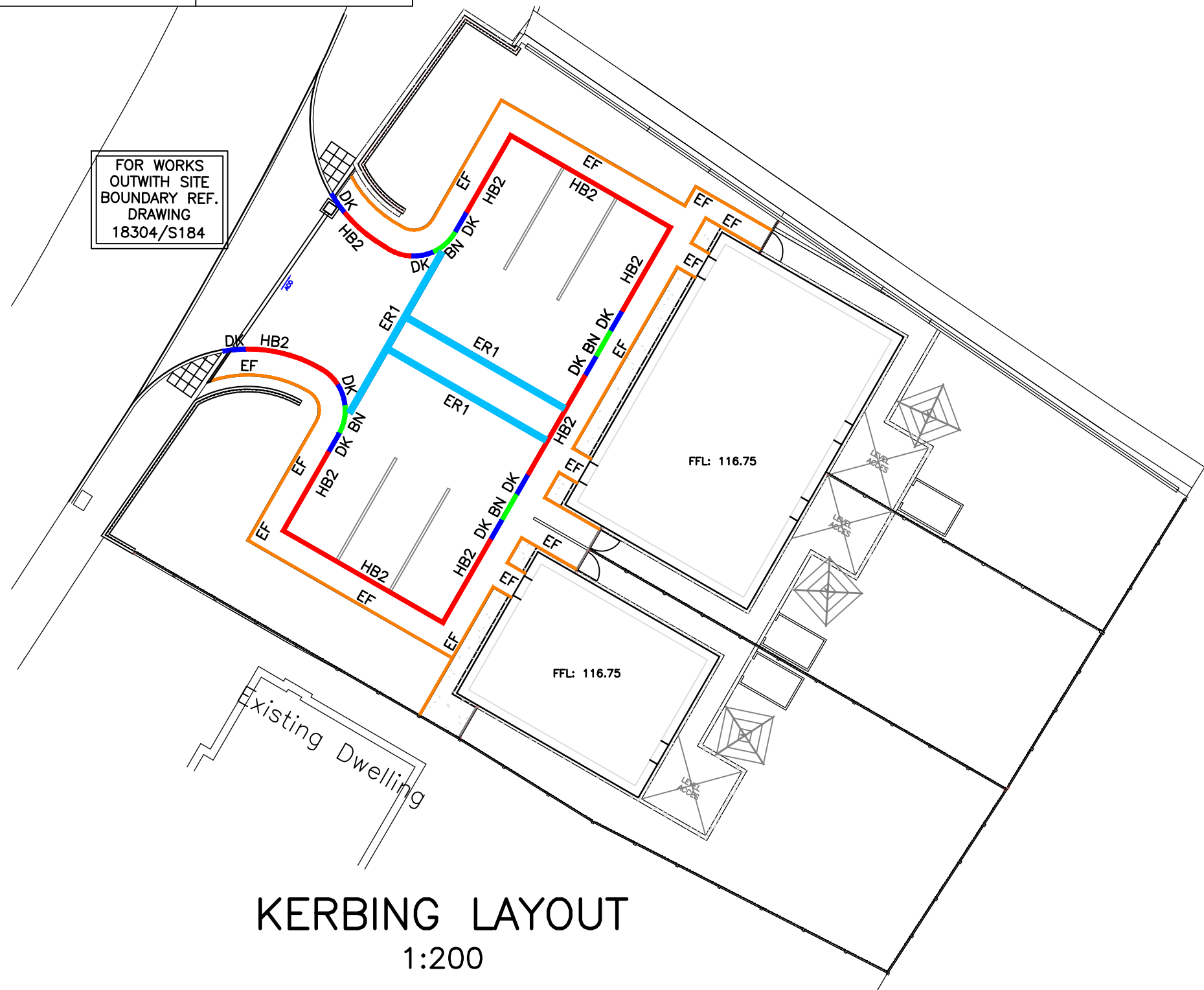




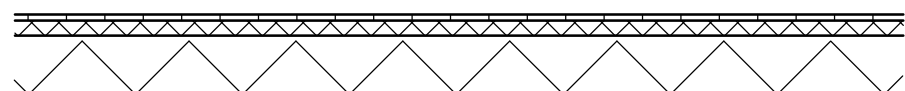
KERBING LAYOUT
1:200

FOOTWAY CONSTRUCTION

SURFACE COURSE: 20mm THK DENSE WEARING COURSE (190 PEN BINDER & 6mm AGGREGATE WITH MIN PSV OF 55) TO BS 13108-4:2006 (DTP SPECIFICATION CLAUSE 912)

BINDER COURSE: 40mm THK DENSE BASE COURSE (190 PEN BINDER & 20mm AGGREGATE) TO BS 13108-1:2006 (DTP SPECIFICATION CLAUSE 906)

SUB-BASE: MIN 200mm THK TYPE 1 SUB-BASE MATERIAL (MAX 40mm AGGREGATE) TO SPECIFICATION CLAUSE 803



TYPICAL SECTION
FOOTWAY CONSTRUCTION
1:25

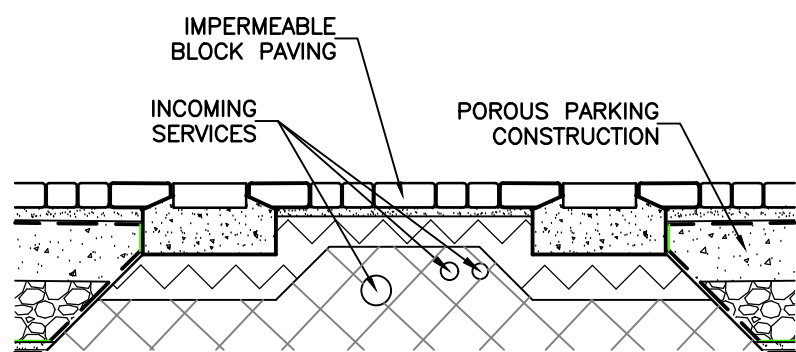
TABLE 1 Typ. Particle Size Distribution limits for laying course material		
BS SIEVE SIZE		% PASSING
8mm		100
6.3mm		95-100
4.0mm		85-99
0.5mm		30-70
0.063mm		0-3

WEARING COURSE: IMPERMEABLE PAVING 240x160x80mm Dp

LAYING COURSE: 30mm THK. BEDDING 2-8mm NATURALLY OCCURED SAND TO BS EN 12620 AND CONFORM TO TABLE 1 ABOVE

SUB-BASE: 100mm THK TYPE 1 SUB-BASE MATERIAL TO SPECIFICATION CLAUSE 803

CAPPING/FILL: MIN 240mm THK 6F1 FILL MATERIAL (TABLE 6.1 OF SPECIFICATION FOR HIGHWAY WORKS - SERIES 600 - EARTHWORKS)

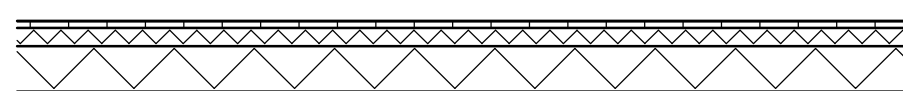


PERMEABLE PAVING WITH
WITH SERVICE CROSSOVER
1:25

SURFACE COURSE: 20mm CONSOLIDATED THICKNESS OF ASPHALT CONCRETE (AC) BINDER COURSE MATERIAL CONFORMING TO BS EN 13108 PART 1:2006. [AC 6 MED SURF 100/150]

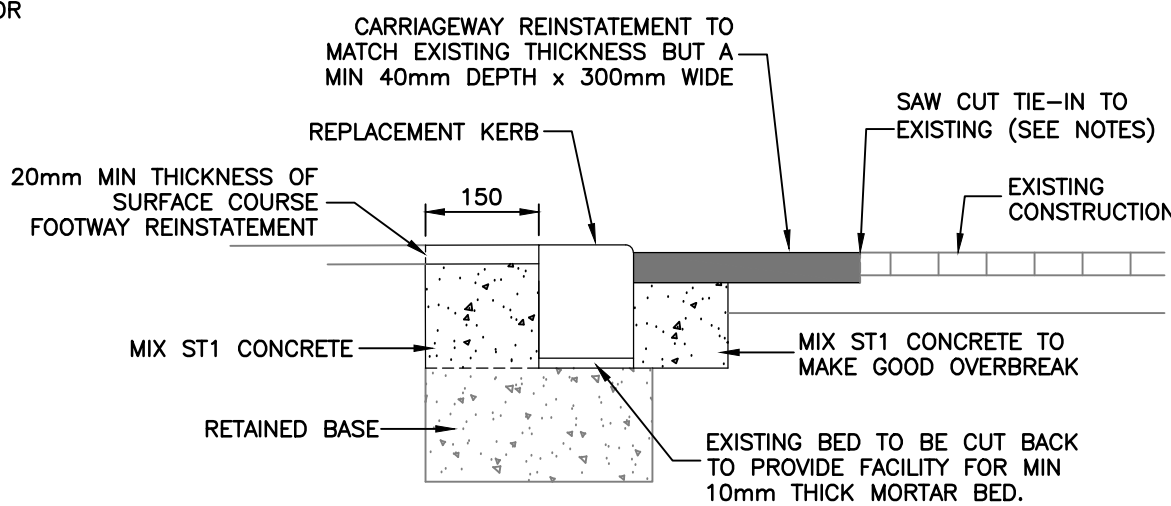
BINDER COURSE: 60mm CONSOLIDATED THICKNESS OF ASPHALT CONCRETE (AC) BINDER COURSE MATERIAL CONFORMING TO BS EN 13108 PART 1:2006. [AC 20 DENSE BIN 100/150]

SUB-BASE: MINIMUM OF 200mm THICK GRANULAR SUB-BASE MATERIAL TYPE 1 COMPLYING WITH CLAUSE 803 OF THE WELSH ASSEMBLY GOVERNMENT'S SPECIFICATION FOR HIGHWAY WORKS 2009.

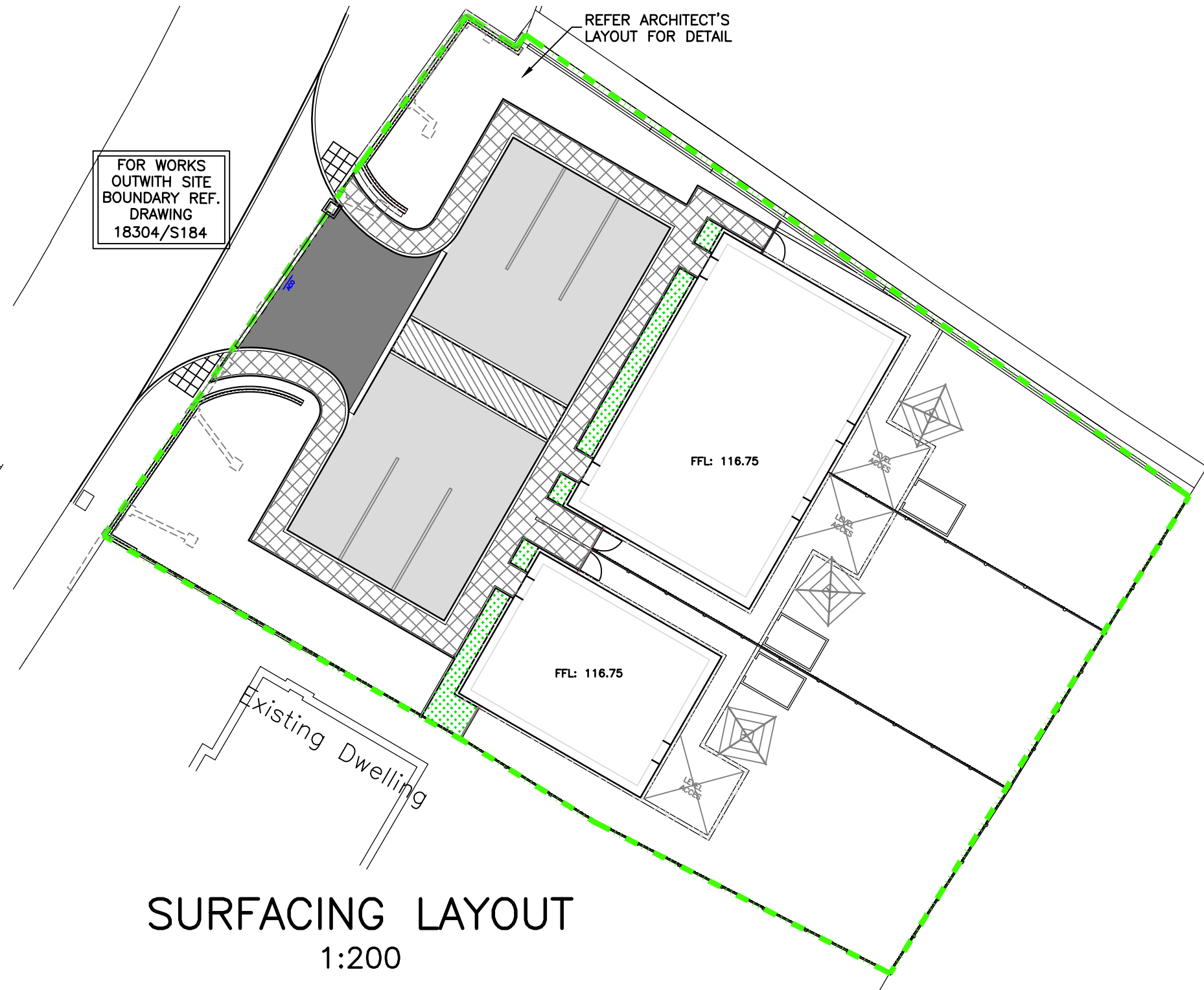


TYPICAL SECTION
VEHICULAR CROSSING
CONSTRUCTION
1:25

SURFACING: 40mm THK HRA 55/14C SURF 40/60 DES PSV 55 TO BS EN 13108-4



REPLACEMENT KERB LAID
ON EXISTING BASE
1:10



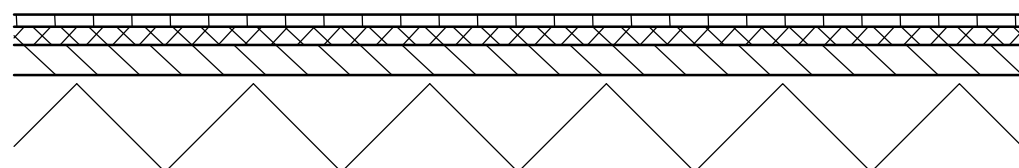
SURFACING LAYOUT
1:200

SURFACE COURSE: 40mm THK CLOSE GRADED MACADAM SURFACE COURSE AC 10 CLOSE SURF 100/150 (DTP SPEC CLAUSE 912)

BINDER COURSE: 60mm THK DENSE BINDER COURSE AC 20 DENSE BIN 40/60 REC IN ACCORDANCE WITH BS EN 13108-1 (DTP SPEC CLAUSE 906)

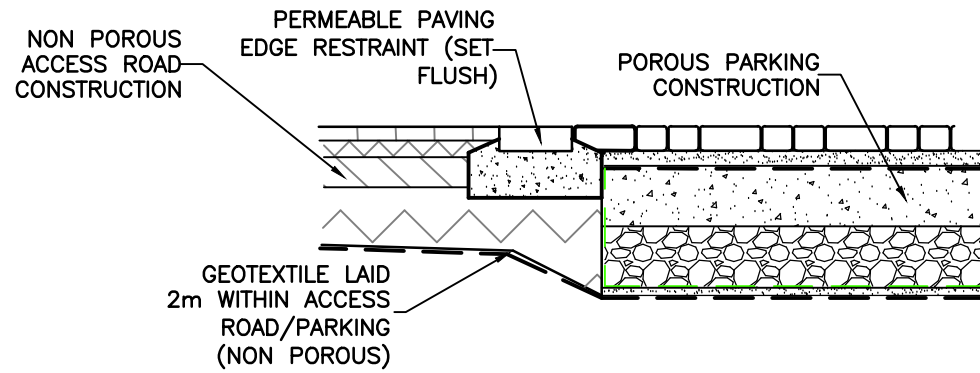
BASE COURSE: 100mm THK DENSE BASE COURSE AC 32 DENSE BASE 40/60 REC IN ACCORDANCE WITH BS EN 13108-1 (DTP SPEC CLAUSE 906)

SUB-BASE: 150mm THK TYPE 1 SUB-BASE MATERIAL TO SPECIFICATION CLAUSE 803



TYPICAL SECTION
PRIVATE ACCESS PARKING
1:25

THE DESIGN PARAMETERS SHALL BE VERIFIED DURING CONSTRUCTION BY UNDERTAKING CBR TESTS OR OTHER SIMILAR MEANS, UPON THE FORMATION AND SUB BASE LEVELS
DESIGN IS BASED ON ASSUMED CBR OF 15%
THE CBR VALUE ACHIEVED AT SUB-BASE LEVEL SHOULD BE MIN 30%.



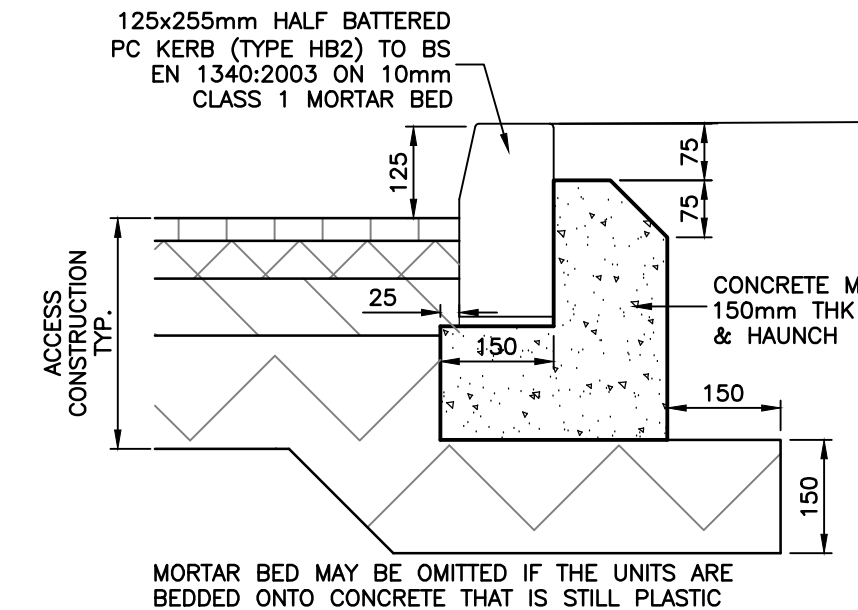
EDGE RESTRAINT DETAIL
1:25

TABLE 1 Typ. Particle Size Distribution limits for laying coarse material		
BS SIEVE SIZE		% PASSING
14mm		100
10mm		98-100
6.3mm		80-99
2.0mm		0-20
1.0mm		0-5

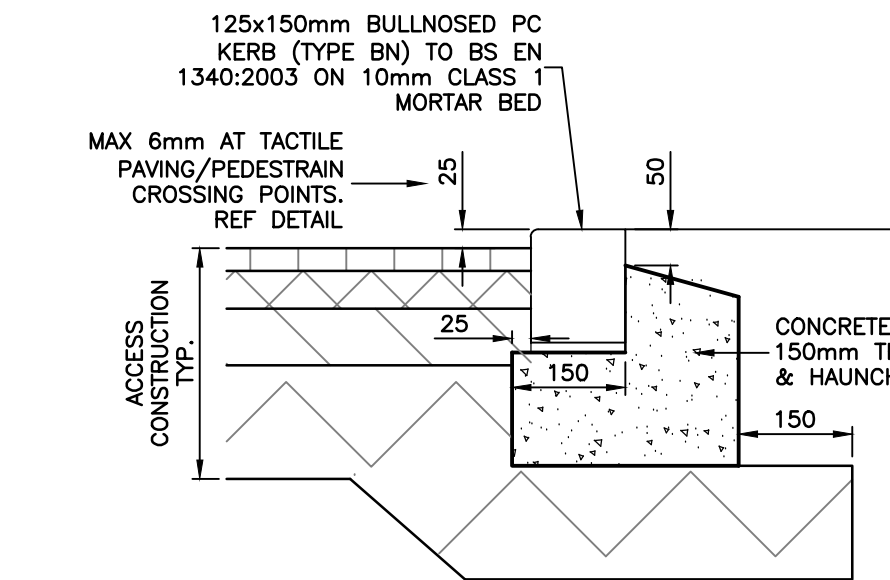
TABLE 2 Typ. Particle Size Distribution limits for Type 4/20 coarse graded aggregate		
BS SIEVE SIZE		% PASSING
40mm		100
31.5mm		98-100
20mm		90-99
10mm		25-70
4mm		0-15
2mm		0-5

TIE IN - GENERAL NOTES

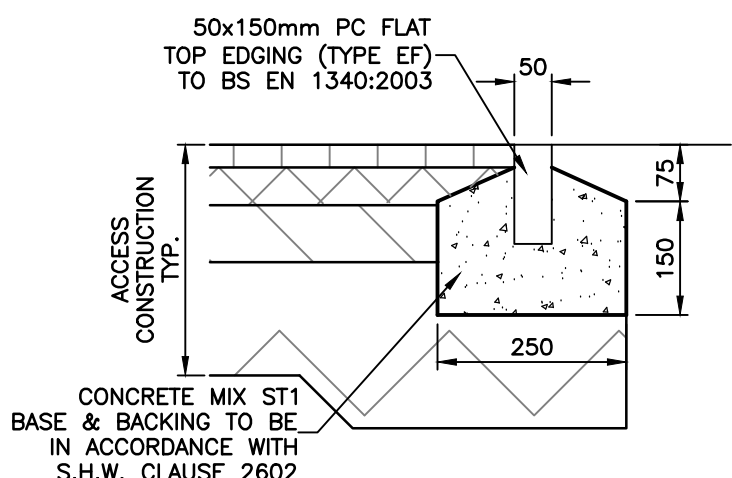
- SAW CUT NEAT VERTICAL JOINTS TO EDGES OF CUT BACK
- EXISTING FOOTPATH CONSTRUCTION TO BE SCARIFIED AT ALL INTERFACES WITH FOOTPATH CONSTRUCTION
- VERTICAL FACE OF SAW CUT SHALL BE PAINTED WITH BITUMEN IN ACCORDANCE WITH CLAUSE 903.22
- IMMEDIATELY PRIOR TO LAYING EACH NEW CONSTRUCTION COURSE, THE EXISTING SURFACE AT ITS INTERFACE SHALL BE DRY AND BRUSHED CLEAN OF DIRT AND LOOSE MATERIAL. A BITUMINOUS TACK COAT OF 30% SPRAY GRADE CATIONIC EMULSION SHALL BE APPLIED AT THE RATE OF 0.4 Litres/Sq.m TO ALL VERTICAL & HORIZONTAL FACES.
- OVERBANDING IF UNDERTAKEN SHALL NOT EXCEED 3mm THICKNESS NOR 40mm WIDTH, AND ALL OVERBANDING MATERIALS SHALL HAVE A MIN SKID RESISTANCE VALUE OF 55 SRV. OVERBANDING SHALL NOT BE USED AS A SUBSTITUTE FOR ANY EDGE SEALING REQUIRED AS NOTED ABOVE



DETAIL 1
HB2 KERB DETAIL
1:10



DETAIL 2
BN KERB DETAIL
1:10



DETAIL 3
EF KERB DETAIL
1:10

LOAD CATEGORY 3

LAI D IN ACCORDANCE WITH MANUFACTURERS SPECIFICATION & PRODUCT LITERATURE

WEARING COURSE: MARSHALLS TEGULA PERMEABLE PAVING 240x160x80mm Dp

LAYING COURSE: 50mm THK. BEDDING 2-6mm SINGLE SIZED CLEAN CRUSHED STONE TO BS EN 13242:2002 AND CONFORM TO TABLE 1 OPPOSITE

GEOTEXTILE: GEOTEXTILE FABRIC LINING TERRAM 1000 OR SIMILAR TO SEPARATE SAND AND GRAVEL LAYER TYP.

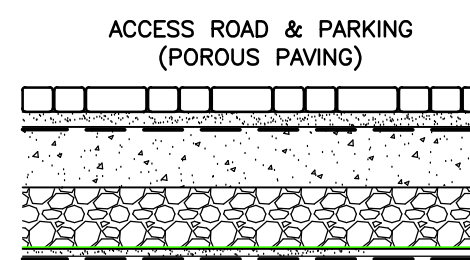
SUB-BASE: HYDRAULICALLY BOUND COARSE GRADED AGGREGATE 125mm THK OF AGGREGATE OF PARTICLE SIZE DISTRIBUTION WITHIN THE ENVELOPE OF TABLE 2 OPPOSITE & SHALL COMPLY WITH THE FOLLOWING: CEMENT BOUND MIXTURES BS EN 14227-1:2004. 'Hydraulically bound mixtures' - Specifications - Part 1: Cement bound granular mixtures' Minimum cement content by mass = 3% Strength Class = C5/6 (As defined in Table 2 of BS EN 14227-1:2004.) Minimum permeability 20,000mm/hour (USE OF RECYCLED AGGREGATE NOT PERMITTED)

LOWER SUB-BASE: MIN 300mm THK OF 4-20mm CLEAN CRUSHED STONE TO BS EN 13242:2002 (USE OF RECYCLED AGGREGATE NOT PERMITTED)

MEMBRANE: MIN 1mm THK POLYPROPYLENE IMPERMEABLE MEMBRANE SHEET TO BE WRAPPED AROUND ENTIRE PERIMETER (SIDES+ BASE ONLY)

BLINDING LAYER: MIN 25mm THK SAND BLINDING LAYER OVER (TO PREVENT PUNCTURING IMPERMEABLE MEMBRANE)

GEOTEXTILE: TERRAM 1000 OR SIMILAR APPROVED TO BIND ACCESS ROAD AND PARKING AREAS CONSTRUCTION TYP. LAID 2m EITHER SIDE OF EDGE RESTRAINT



TYPICAL POROUS PAVING
CONSTRUCTION
1:25

NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES U.N.O. ON THE DRAWING. ALL LEVELS IN METERS
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEER'S AND ARCHITECT'S DRAWINGS AND RELEVANT SPECIFICATION CLAUSES
- ALL WORKS TO BE IN ACCORDANCE WITH ROADS FOR ADOPTION IN WREXHAM
- ALL WORKS IN ACCORDANCE WITH SPECIFICATION FOR HIGHWAY WORKS
- LOCATION OF ALL EXISTING SERVICES TO BE CONFIRMED BY CONTRACTOR

KERBING NOTES

- ALL KERBING TO BE CARRIED OUT IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS SERIES 1100
- AT CHANGES OF DIRECTION, APPROPRIATE QUADRANTS OR ANGLES SHALL BE USED
- FOR KERBS LAID AT A RADIUS BETWEEN 1-12m, THE APPROPRIATE RADIUS KERB UNITS SHALL BE USED
- WHERE KERBLINES TERMINATE, THE APPROPRIATE DROP KERB UNIT SHALL BE USED WHERE SHOWN AS DK
- ALL KERBS SHALL BE PRECAST CONCRETE TO BS EN 1340 : 2003

WHITE LINING NOTES

- FOR REFERENCE TO ROAD MARKINGS REFER TO TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS (TSRGD) LATEST DOCUMENT
- ROAD MARKINGS SHOULD BE IN ACCORDANCE WITH SPECIFICATION FOR HIGHWAY WORKS SERIES 1200.
- ALL MARKINGS TO BE OF THERMOPLASTIC SPRAY OR SCREED WITH APPLIED SOLID GLASS BEADS AND DESIGNED IN ACCORDANCE WITH CHAPTER 5 OF THE TRAFFIC SIGNS MANUAL

KEY

- SITE BOUNDARY
- HB2 125x250mm PC HALF BATTERED KERB (HB2) - REF DETAIL 1
- DK SINGLE PC HALF BATTERED DROP KERB
- BN 125x150mm PC BULLNOSED KERB (BN) - REF DETAIL 2
- EF 150x50mm PC FLAT TOP EDGING KERB (EF) - REF DETAIL 3
- ER1 PERMEABLE PAVING EDGE RESTRAINT (ER1) - REF DETAIL
- ACCESS CONSTRUCTION (REFER DETAIL)
- PARKING BAY - POROUS PAVING (REFER DETAIL)
- PARKING BAY - IMPERMEABLE PAVING FOR SERVICE CROSSOVER (REFER DETAIL)
- FOOTPATH TO ARCH DETAIL

B	28.03.19	IMPERMEABLE PAVING CONSTRUCTION DETAIL ADDED. TACTILE PAVING DETAIL MOVED TO DRAWING 18304/S184	LI	AC	AC
A	19.03.19	POROUS PAVING CONSTRUCTION DETAIL ADDED	LI	AC	AC
REV	DATE	DESCRIPTION	BY	CHK	APP

REVISIONS

CLIENT



PROJECT

Former Victoria Garage
Ruabon

TITLE

Kerbing, Surfacing
and Construction Details



DRAWN	LI	CHECKED	AC	PASSED	AC
DATE	08.01.19	CLIENT'S REF.			
SCALE	AT A1	As Shown	AUTOCAD REF.	18304/001	
DRAWING No.					REVISION
					18304/102
					B