

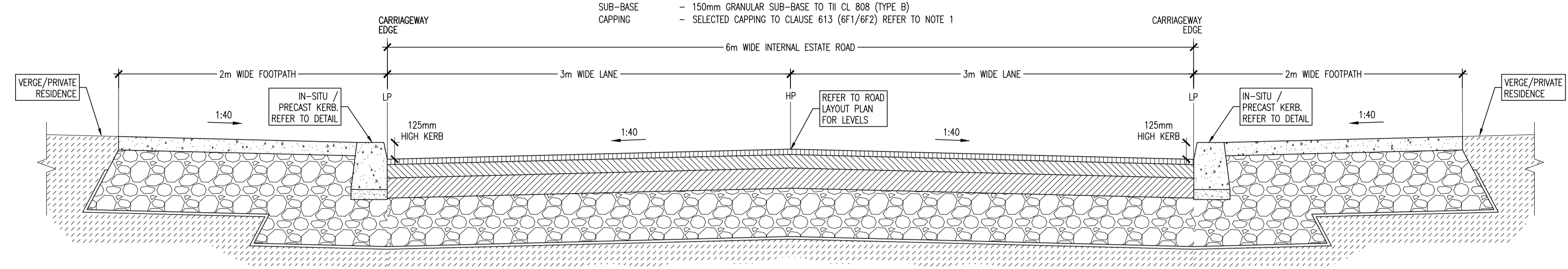
NOTES:

- C20/25 CONCRETE TO HAVE A MINIMUM CEMENT CONTENT OF 260kg/m<sup>3</sup> MAXIMUM WATER/CEMENT RATIO OF 0.65 AND SLUMP CLASS S2.
- C25/30 CONCRETE TO HAVE A MINIMUM CEMENT CONTENT OF 280kg/m<sup>3</sup> MAXIMUM WATER/CEMENT RATIO OF 0.65 AND SLUMP CLASS S2.
- C40/50 CONCRETE TO HAVE A MINIMUM CEMENT CONTENT OF 400kg/m<sup>3</sup> MAXIMUM WATER/CEMENT RATIO OF 0.45 AND SLUMP CLASS S3.
- WHERE CLASS 6F1/6F2 CAPPING MATERIAL IS PROPOSED WITHIN 500mm OF CONCRETE OR STEEL, CLASS 6N TO BE USED INSTEAD.
- \* WHERE FOOTPATHS ARE LOCATED ADJACENT TO ROADS, C40/50 CONCRETE TO BE USED. ALTERNATIVELY, C25/30 CONCRETE MAY BE USED.
- ALL PEAT TO BE REMOVED AND BUILT UP TO FORMATION LAYER WITH TYPICAL EMBANKMENT DETAIL.

**NOTE:**  
ALL WORKS & SPECIFICATIONS TO BE UNDERTAKEN IN ACCORDANCE WITH  
• TII SPECIFICATION FOR ROADWORKS  
• GREATER DUBLIN CODE OF PRACTICE FOR DRAINAGE WORKS  
• RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS

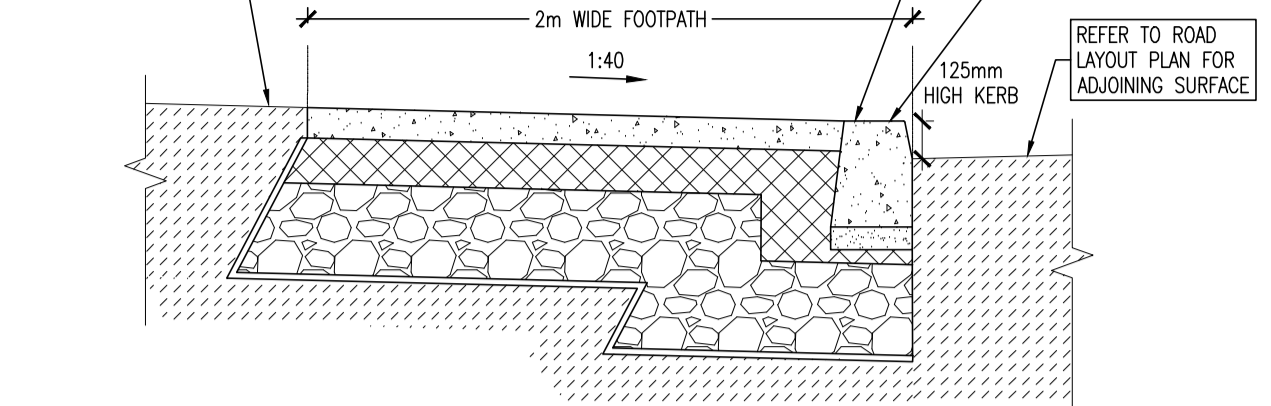
**WHERE THE BASE COURSE IS TO BE TRAFFICKED OR LEFT UNCOVER FOR ANY LENGTH OF TIME IT MUST BE SURFACE DRESSED. CONTRACTOR SHOULD NOTE CBR'S MUST BE APPROVED BY ENGINEER PRIOR TO COMMENCEMENT OF ROAD CONSTRUCTION**

**ROAD CONSTRUCTION:**  
SURFACE COURSE - 40mm SMA 10 SURF PMB 65/105-60 DES TO TII SERIES 900 CH5  
BINDER COURSE - 100mm AC 20 DENSE BIN 40/60 TO TII SERIES 900 CH3  
SUB-BASE - 150mm GRANULAR SUB-BASE TO TII CL 808 (TYPE B)  
CAPPING - SELECTED CAPPING TO CLAUSE 613 (6F1/6F2) REFER TO NOTE 1



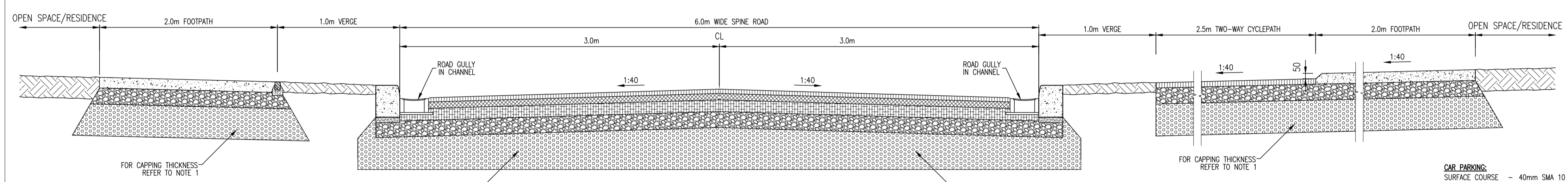
**TYPICAL CROSS-SECTION THROUGH PROPOSED INTERNAL ESTATE ROAD**  
SCALE 1:25

**FOOTPATH:**  
100mm CONCRETE TO CLAUSE 1106 ON  
150mm GRANULAR SUB-BASE TO CLAUSE 808 WITH BLINDED SURFACE JOINTS FORMED WITH DOUBLE THICKNESS OF BITUMINOUS ROOFING FELT TO I.S. 36 (TYPE 1F) EVERY 3.5m, ON  
300mm CAPPING TO CLAUSE 613 (CLASS 6F1/2), (DEPENDANT ON CBR RESULTS, 3% ASSUMED)



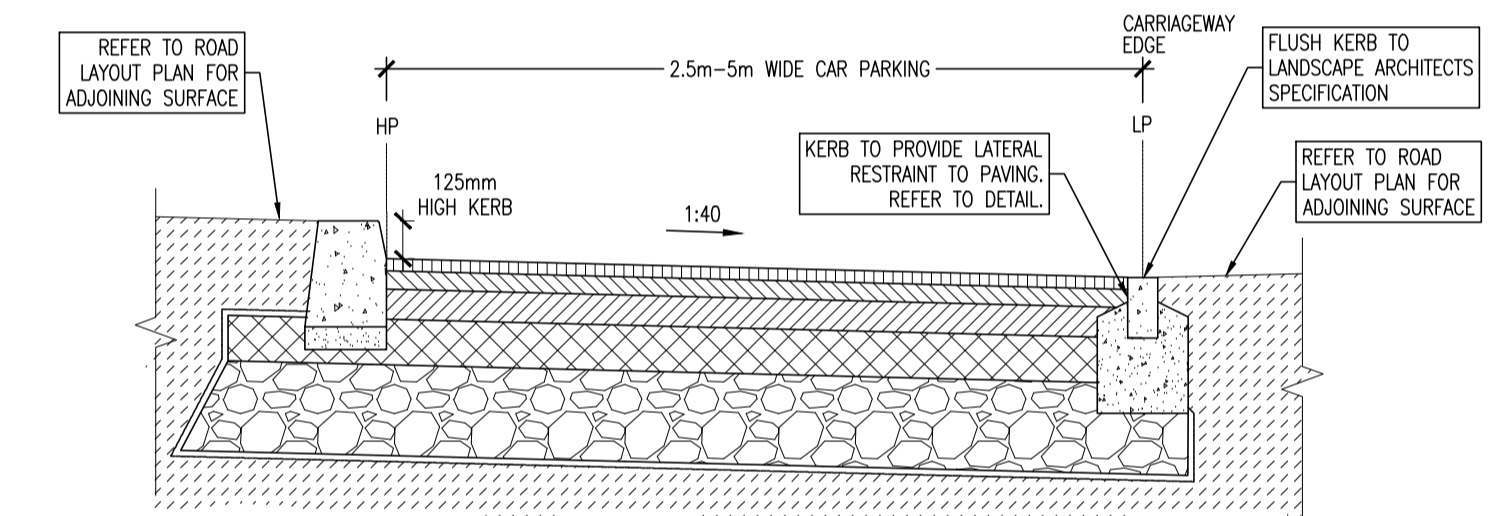
**TYPICAL CROSS-SECTION THROUGH PROPOSED FOOTPATH NO VEHICULAR LOADING**  
SCALE 1:25

**ROAD CONSTRUCTION:**  
SURFACE COURSE - 40mm SMA 10 SURF PMB 65/105-60 DES TO TII SERIES 900 CH5 ON  
BINDER COURSE - 60mm AC 20 DENSE BIN 40/60 DES TO TII SERIES 900 CH3 ON  
BASE - 100mm AC 32 DENSE BASE 40/60 DES TO TII SERIES 900 CH3 ON  
SUB-BASE - 150mm GRANULAR SUB-BASE TO CLAUSE 808 (TYPE B) ON  
CAPPING - SELECTED CAPPING TO CLAUSE 613 (CLASS 6F1/2) REFER TO NOTE 1.



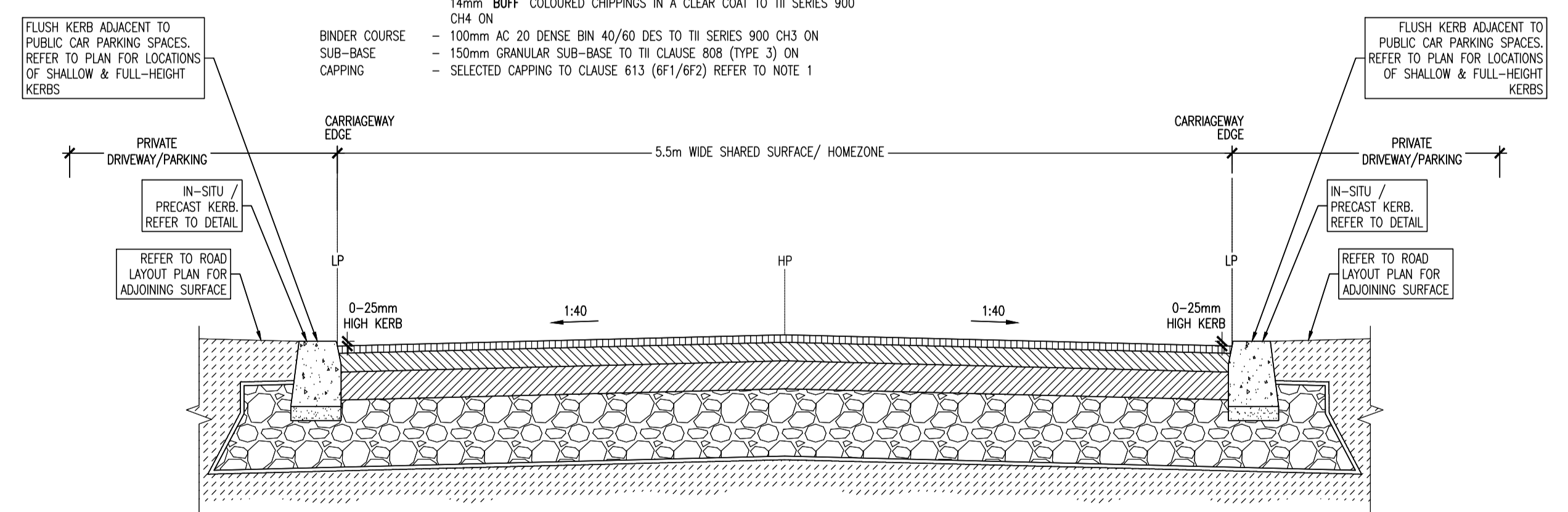
**PROPOSED SPINE ROAD - TYPICAL CROSS-SECTION**  
SCALE N.T.S.

**CAR PARKING:**  
SURFACE COURSE - 40mm SMA 10 SURF PMB 65/105-60 DES TO TII SERIES 900 CH5  
BINDER COURSE - 100mm AC 20 DENSE BIN 40/60 TO TII SERIES 900 CH3  
SUB-BASE - 150mm GRANULAR SUB-BASE TO TII CL 808 (TYPE B)  
CAPPING - SELECTED CAPPING TO CLAUSE 613 (6F1/6F2) REFER TO NOTE 1



**TYPICAL CROSS-SECTION THROUGH PROPOSED IMPERMEABLE CAR PARKING**  
SCALE 1:25

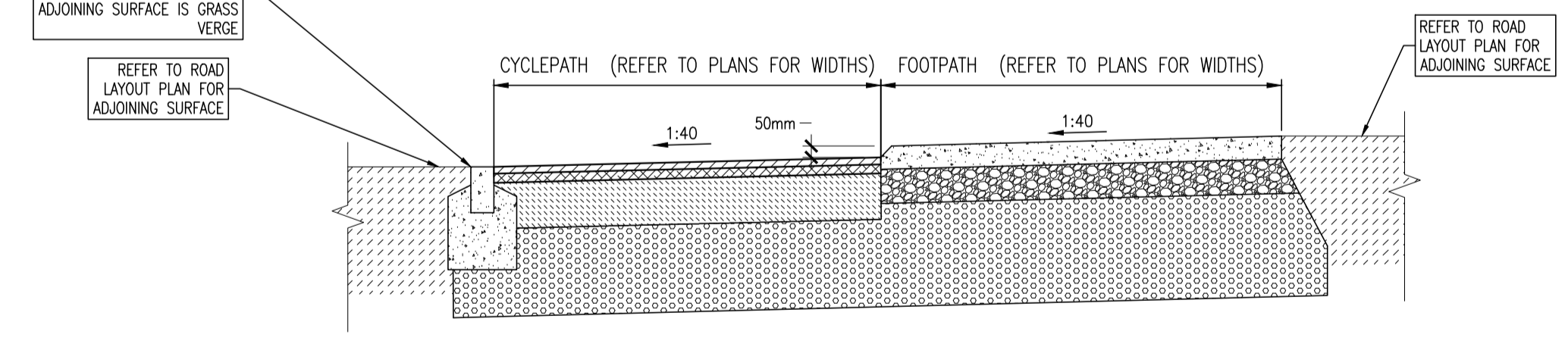
**ASPHALT SHARED SURFACE:**  
SURFACE COURSE - 40mm HRA 30/14 F SURF 40/60 (14mm AGGREGATE) TO CL 910 WITH 14mm "BUFF" COLOURED CHIPPINGS IN A CLEAR COAT TO TII SERIES 900 CH4 ON  
BINDER COURSE - 100mm AC 20 DENSE BIN 40/60 DES TO TII SERIES 900 CH3 ON  
SUB-BASE - 150mm GRANULAR SUB-BASE TO TII CLAUSE 808 (TYPE 3) ON  
CAPPING - SELECTED CAPPING TO CLAUSE 613 (6F1/6F2) REFER TO NOTE 1



**TYPICAL CROSS-SECTION THROUGH PROPOSED SHARED SURFACE/HOMEZONE**  
SCALE 1:25

**CYCLEPATH:**  
SURFACE COURSE - 20mm AC 10 CLOSE SURF 70/100 DES TO TII SERIES 900 CH3  
BASE COURSE - 50mm AC 20 DENSE BIN 70/100 DES TO TII SERIES 900 CH3  
SUB-BASE - 150mm GRANULAR SUB-BASE TO CLAUSE 808 (TYPE B)  
CAPPING - 300mm CLAUSE 613 (CLASS 6F1/2) (DEPENDANT ON CBR RESULTS, 3% ASSUMED).

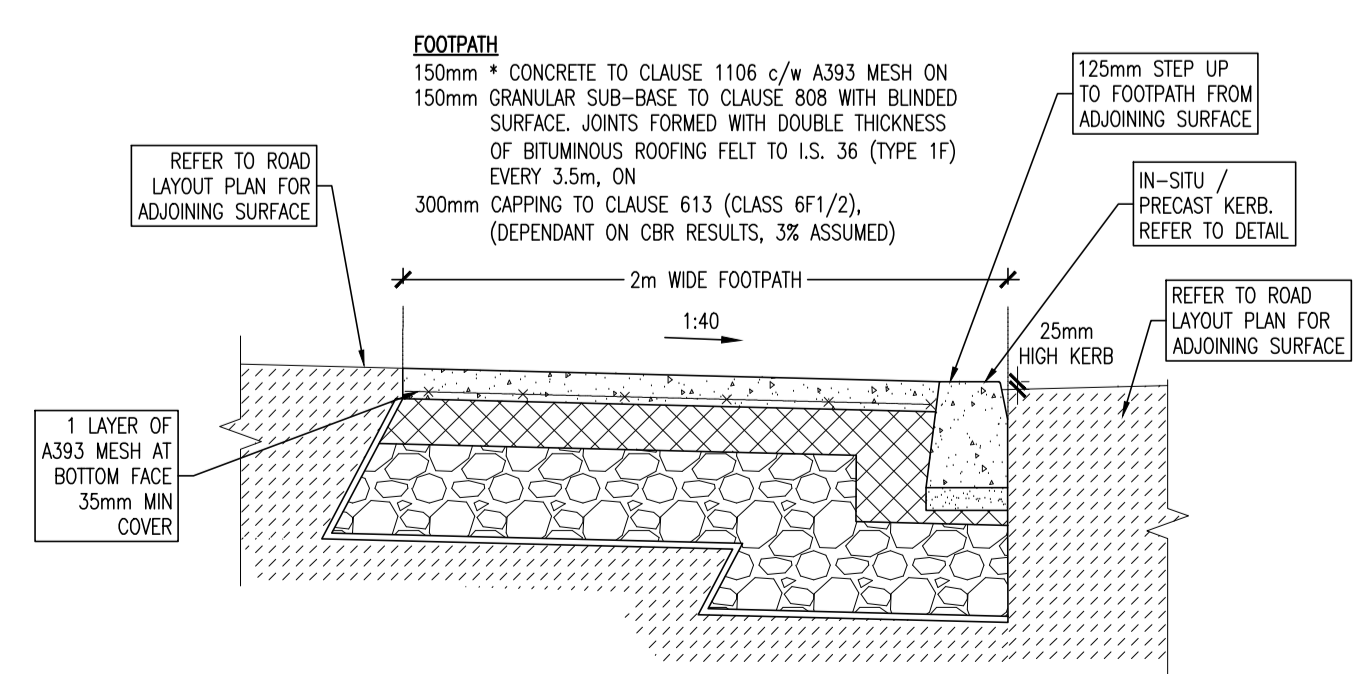
**FOOTPATH:**  
100mm CONCRETE TO CLAUSE 1106  
150mm GRANULAR SUB-BASE TO CLAUSE 808  
300mm CAPPING TO CLAUSE 613 (CLASS 6F1/2) (DEPENDANT ON CBR RESULTS, 3% ASSUMED).



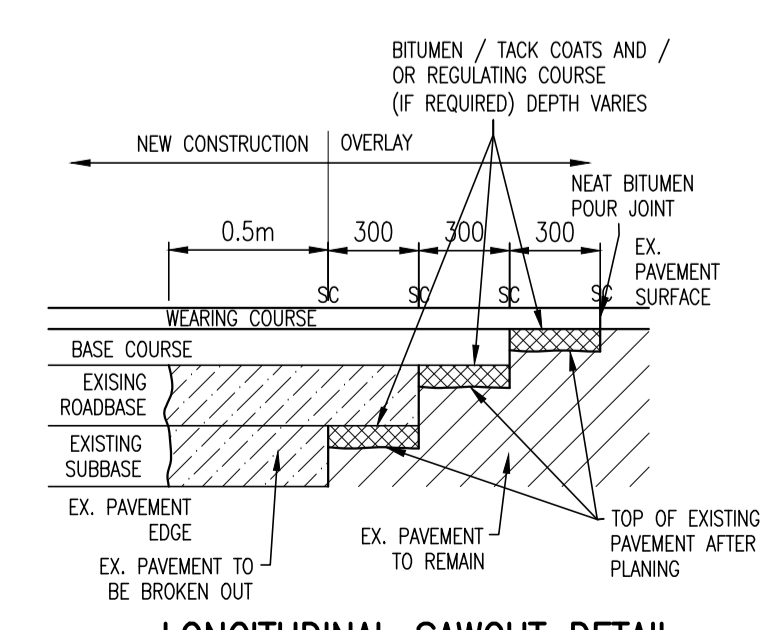
**TYPICAL ADJACENT CYCLEPATH/ FOOTPATH DETAIL**  
SCALE N.T.S.

**NOTE:**  
1. FOR AREAS WHERE CBR VALUES ARE BELOW 2%, CARRY OUT THE FOLLOWING:  
- THE SOFT AREA IS TO BE EXCAVATED OUT FULLY AND REPLACED WITH A GENERAL FILL MATERIAL (CLASS 1A/1B) TO N.R.A. SPECIFICATION TO THE UNDERSIDE OF AN 'ENKAGRID' LAYER (ENKAGRID TRC 40 OR SIMILAR 40kN/m<sup>2</sup>), SEPARATION GEOTEXTILE TO BE PLACED BETWEEN THE SUBGRADE AND CAPPING.  
OR  
- SOIL TO BE STABILISED IN-SITU WITH LIME/CEMENT TO SPECIALIST CONTRACTOR SPECIFICATION TO FORMATION LEVEL, MINIMUM CBR 5%.  
AN ENGINEER SHOULD INSPECT THE SOFT AREA WHEN IT HAS BEEN FULLY EXCAVATED OUT PRIOR TO THE FILL/STABILISED MATERIAL BEING PLACED/WORKED.  
2. FOR AREAS WHERE CBR VALUES ARE BETWEEN 2% AND 5%, CARRY OUT THE FOLLOWING:  
- THE SOIL IS TO BE EXCAVATED OUT FULLY AND REPLACED WITH A CAPPING MATERIAL TYPE 6F1/6F2 TO N.R.A. SPECIFICATION. DEPTHS OF CAPPING MATERIAL AS PER TABLE 1 BELOW. SEPARATION GEOTEXTILE TO BE PLACED BETWEEN THE SUBGRADE AND CAPPING.  
OR  
- SOIL TO BE STABILISED IN-SITU WITH LIME/CEMENT TO SPECIALIST CONTRACTOR SPECIFICATION TO FORMATION LEVEL, MINIMUM CBR 5%. DEPTHS OF MATERIAL TO BE STABILISED AS PER TABLE 1 BELOW.

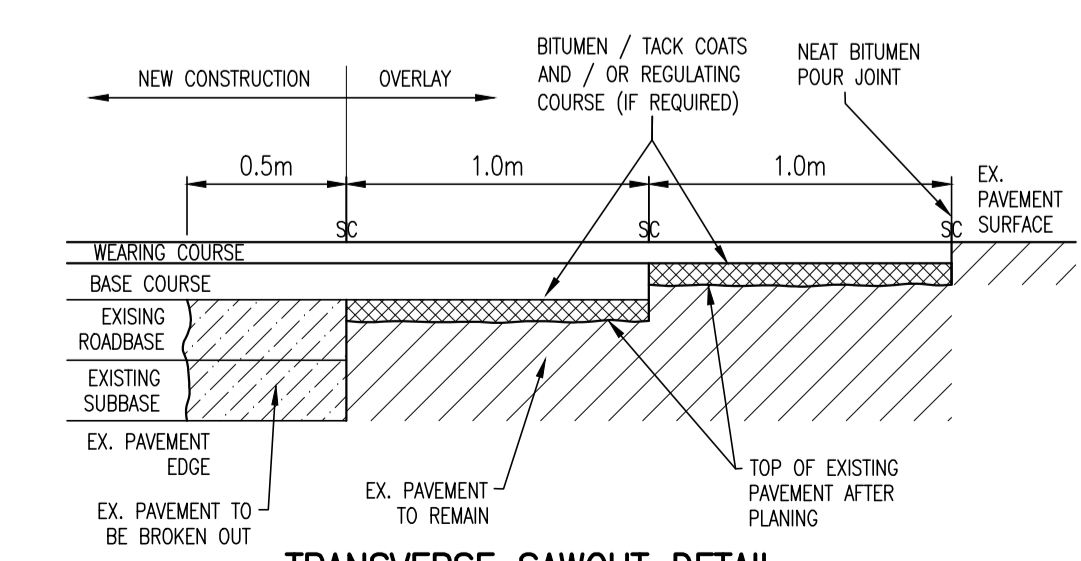
CBR	ROADS	CARPARK
2%	400	300
3%	300	200
4%	250	150



**TYPICAL CROSS-SECTION THROUGH PROPOSED FOOTPATH VEHICULAR CROSSING**  
SCALE 1:25



**LONGITUDINAL SAWCUT DETAIL**  
SCALE : 1:25  
(SC = SAW CUT LINES, CUT WITH ROTARY SAW.)



**TRANSVERSE SAWCUT DETAIL**  
SCALE : 1:25  
(SC = SAW CUT LINES, CUT WITH ROTARY SAW.)

rev	date	ISSUED FOR PLANNING	APW	LMcl

client approval: A - Approved, B - Approved with comments, C - Do not use

suitability: S2 - INFORMATION, issue purpose: PLANNING

project ref: LISSYWOLLEN RESIDENTIAL DEVELOPMENT AT BRAWNY ROAD, LISSYWOLLEN, ATHLONE, CO. WESTMEATH

drawing title: TYPICAL ROAD CROSS SECTIONS

architect: DELPHI ARCHITECTS

designed by: LMCL, author: KGO, scale: AS, sheet size: A1, drawing no.: 180176-DBFL-XX-XX-DR-C-5006, P01