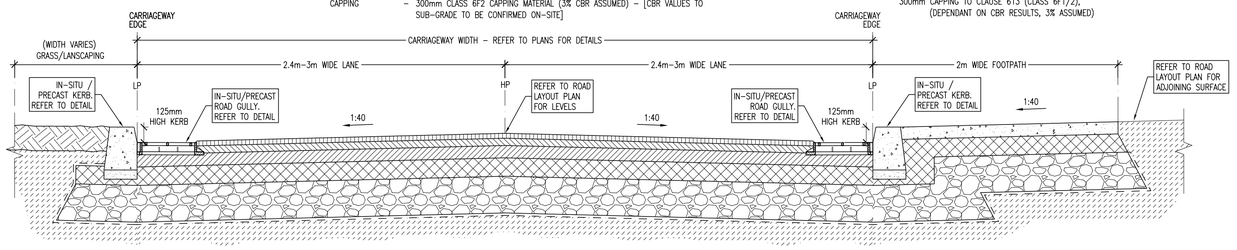
ON ORIGINAL

0 5 10 15 20 25 30 40 50mm

GRASS VERGE:
200mm SPECIAL PURPOSE TOPSOIL TO BS 3882 & APPENDIX 6/8 FOR PLANTING ZONES.

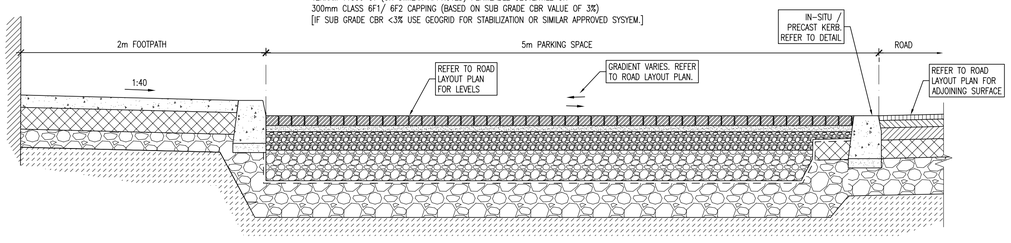
ROAD SURFACE:
SURFACE COURSE – 40mm POLYMER MODIFIED STONE MASTIC ASPHALT PMSMA SMA 10 SURF PMB 65/105-60 DES: TO TII SERIES 900 CH 5 ON
BINDER COURSE – 60mm DBM BINDER COURSE AC 20 DENSE BIN 40/60 REC : TO TII SERIES 900 CH 3 ON
BASE COURSE – 100mm DBM ROAD BASE AC 32 DENSE BIN 40/60 REC : TO TII SERIES 900 CH 3 ON
SUB-BASE – 150mm GRANULAR SUB-BASE TO TII CLAUSE 808 (TYPE B) WITH BLINDED SURFACE ON
CAPPING – 300mm CLASS 6F2 CAPPING MATERIAL (3% CBR ASSUMED) – [CBR VALUES TO SUB-GRADE TO BE CONFIRMED ON-SITE]

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 ENTRANCE ROAD
SCALE 1:25

PERMEABLE PAVING
80mm PERMEABLE PAVING BLOCK to ARCHITECTS SPECIFICATION & APPROVAL & LAYING PATTERN ON
50mm LAYING COURSE MATERIAL AS PER TABLE A.2 BS 7533-13 ON
150mm CEMENT STABILISED COARSE GRADED AGGREGATE AS CBGM B TO TII CL 822 ON
250mm GRANULAR 4/20mm COARSE GRADED PERMEABLE CRUSHED ROCK AS PER TABLE A.1 BS 7533-13 ON
HANSON AQUAFLOW SC MEMBRANE (OR SIMILAR APPROVED) PERMEABLE MEMBRANE TO BASE & SIDES OF PERMEABLE PAVING ON
TERRAM T1500 GT (OR SIMILAR APPROVED) PERMEABLE GEOTEXTILE ON
300mm CLASS 6F1/ 6F2 CAPPING (BASED ON SUB GRADE CBR VALUE OF 3%)
[IF SUB GRADE CBR <3% USE GEOGRID FOR STABILIZATION OR SIMILAR APPROVED SYSYEM.]



TYPICAL CROSS-SECTION THROUGH PROPOSED PERMEABLE PAVING PARKING
SCALE 1:25

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). 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 BEEN 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.

TABLE 1

CAPPING/STABILISATION DEPTHS (mm)		
CBR	ROADS	CARPARK
2%-3%	400	300
3%-4%	300	200
4%-5%	250	150
ABOVE 5%	200	100
WHERE CBR VALUES ARE LOWER THAN 2% IMPROVEMENT OF SUB-GRADE MAY BE REQUIRED		

NOTES:

1. C20/25 CONCRETE TO HAVE A MINIMUM CEMENT CONTENT OF 260Kg/m³, MAXIMUM WATER/CEMENT RATIO OF 0.65 AND SLUMP CLASS S2.
2. C25/30 CONCRETE TO HAVE A MINIMUM CEMENT CONTENT OF 280Kg/m³, MAXIMUM WATER/CEMENT RATIO OF 0.65 AND SLUMP CLASS S2.
3. C40/50 CONCRETE TO HAVE A MINIMUM CEMENT CONTENT OF 400Kg/m³, MAXIMUM WATER/CEMENT RATIO OF 0.45 AND SLUMP CLASS S3.
4. WHERE CLASS 6F1/6F2 CAPPING MATERIAL IS PROPOSED WITHIN 500mm OF CONCRETE OR STEEL, CLASS 6N TO BE USED INSTEAD.
5. * WHERE FOOTPATHS ARE LOCATED ADJACENT TO ROADS, C40/50 CONCRETE TO BE USED. ALTERNATIVELY, C25/30 CONCRETE MAY BE USED.

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

REV.	DATE	DESCRIPTION	BY	CHKD.
B	21/06/19	PERMEABLE PAVING NOTES REVISED	KJL'E	SVC
A	14/06/19	REVISED FOR PLANNING	KJL'E	SVC

PLANNING

DESIGNED	SVC	PREPARED	KJL'E
DATE	JUN 2019	CHECKED	PMF

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PROJECT
PROPOSED RESIDENTIAL DEVELOPMENT AT CHURCH ROAD, KILLINEY, CO. DUBLIN

DRG. TITLE
TYPICAL ROAD CROSS-SECTIONS

ARCHITECT
O'MAHONY PIKE ARCHITECTS

SCALE	1:25 @A1	FILE REF.	180153-3021

DRG. NO. 180153-3027 B