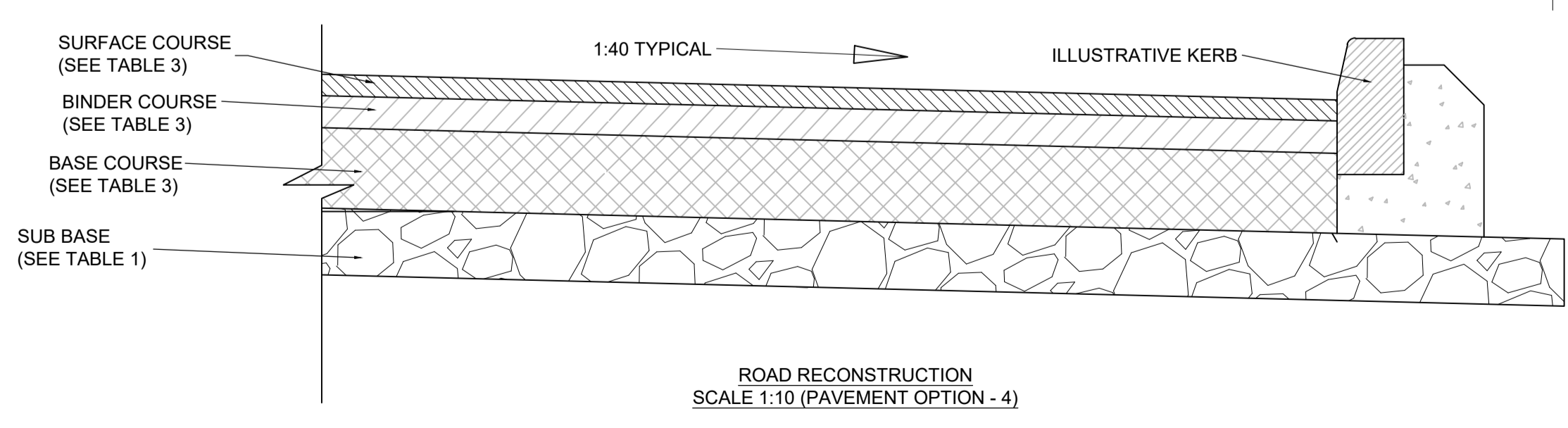
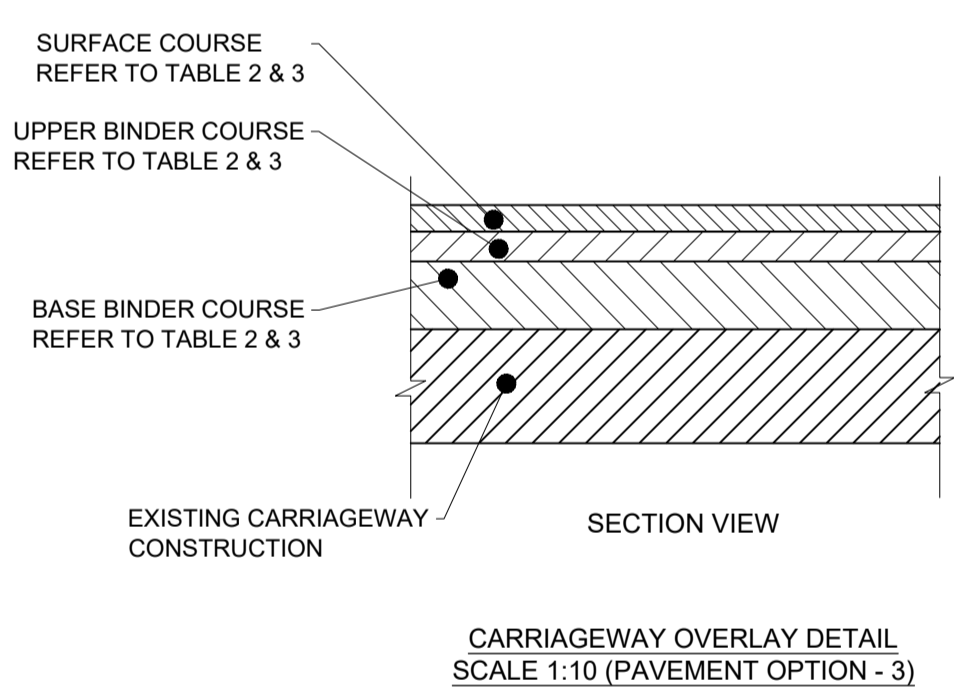
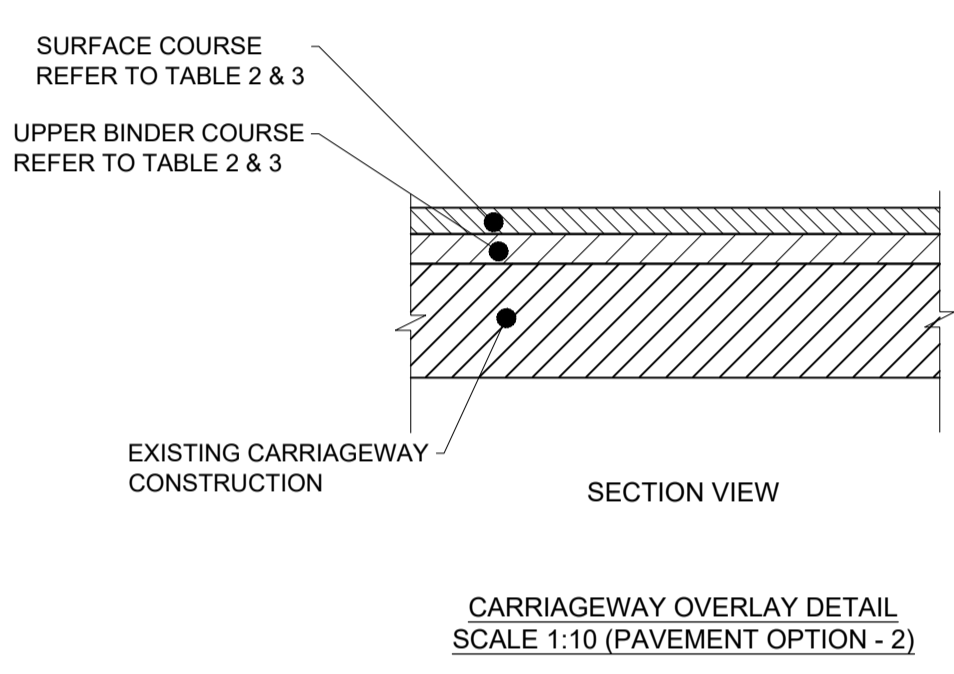
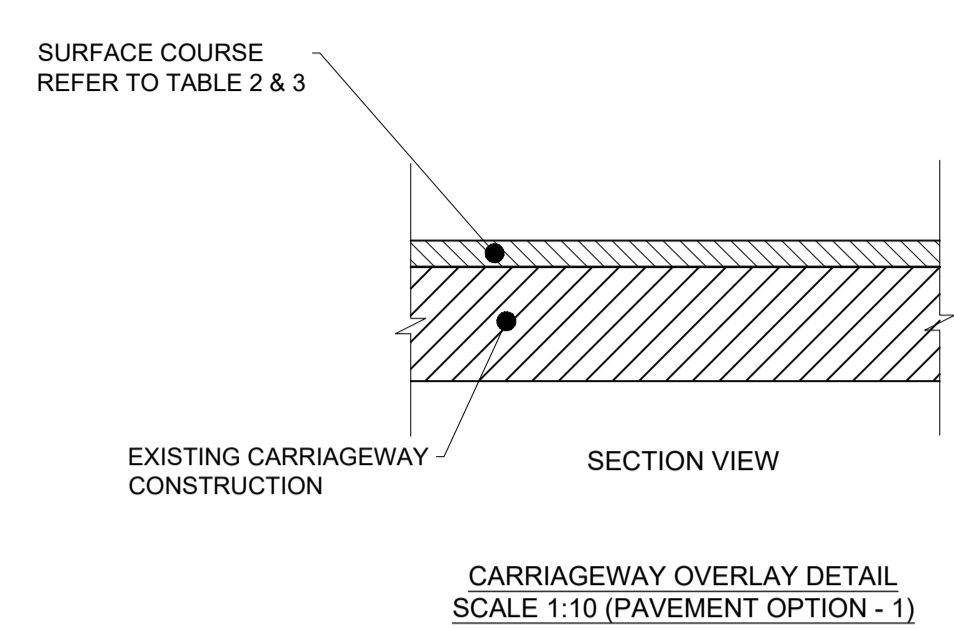


ISO A1 594mm x 841mm  
 Approved: RM  
 Checked: ATZ  
 Designer: KP  
 Project Management Initials:  
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 DRAWINGS\SERIES 2600 - MISCELLANEOUS\30 9000 STANDARD DETAILS\60509148-ACM-SHT-30-9000-CT-9000.DWG  
 Last saved by: RHYSDAVIES(2021-07-14) Last Plotted: 2021-07-16  
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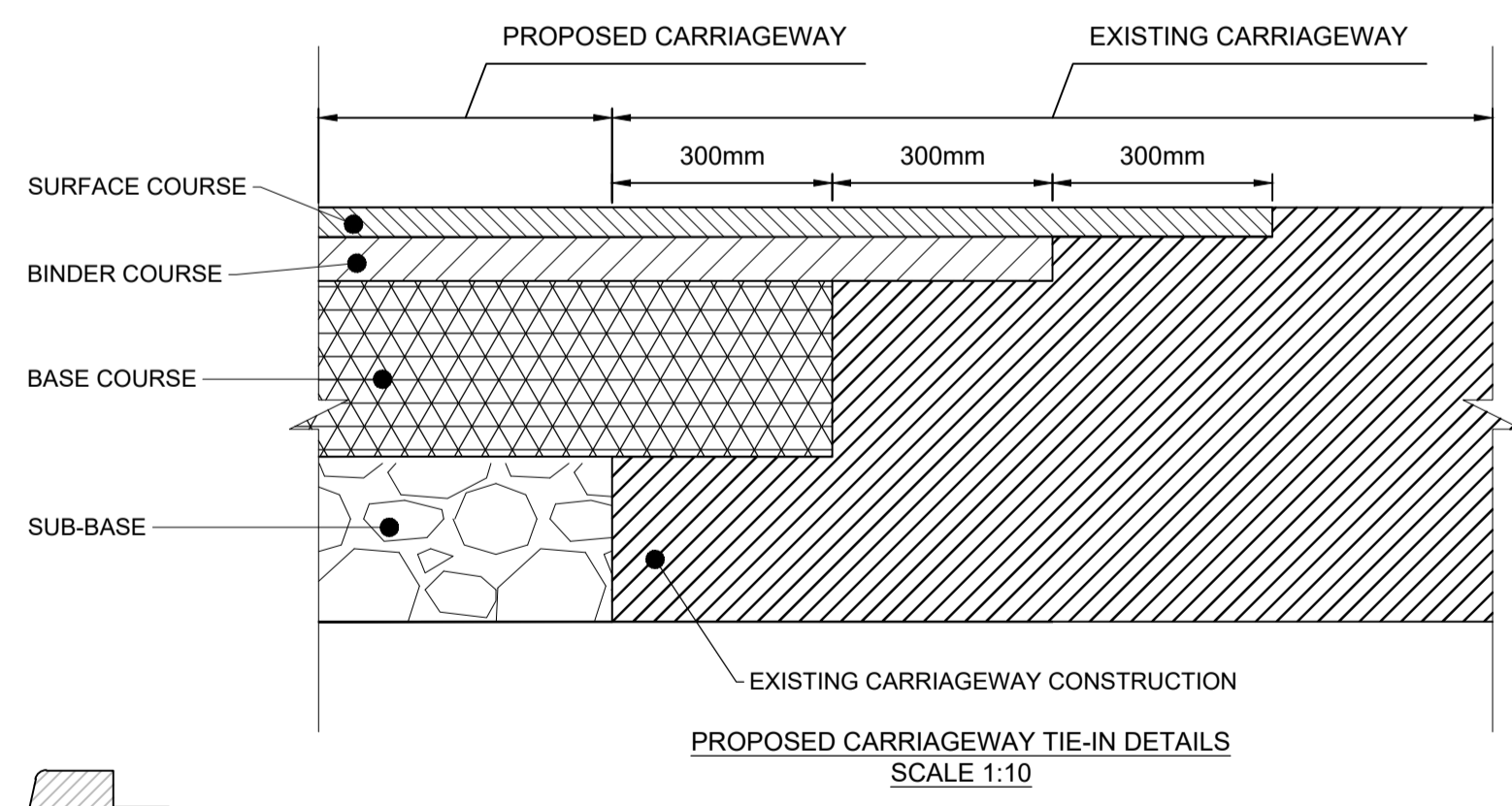
**NOTES**

- TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION / INFORMATION.
- DIMENSIONS AND LEVELS ARE IN MILLIMETER UNLESS OTHERWISE STATED.
- DO NOT SCALE FROM THIS DRAWING, USE ONLY PRINTED DIMENSIONS.
- FOR PAVEMENT LAYOUT REFER DRAWING NO.60509148-ACM-SHT-30-0700-CT-0701 TO 0708.
- BSI PD6691 GUIDANCE ON THE USE OF BS EN 13108, BITUMINOUS MIXTURES - MATERIAL SPECIFICATIONS
- SUB-BASE LAYERS TO BE IN ACCORDANCE WITH MCHW SERIES 800, CLAUSES 803, 804, 805 AND 806.
- WHERE A CBR VALUE IS LESS THAN 2.5% AN ALTERNATIVE SUBGRADE DESIGN INVOLVING GEOTEXTILES OR SOIL STABILISATION MUST BE CONSIDERED.
- ASPHALT CONCRETE TO BE IN ACCORDANCE WITH BS EN 13108-01 AND BS 594987.
- HRA TO BE IN ACCORDANCE WITH BS EN 13108-04 AND BS 594987. SMA TO BE IN ACCORDANCE WITH CLAUSE 937 & 942 AND BS 13108-5. MATERIAL THICKNESS AS PER TABLE 2 AND 3.
- PSV REQUIREMENTS SHALL BE DECLARED IN ACCORDANCE WITH CD 236, TABLE 3.3A AND CS 228 TABLE 4.2.
- CBR VALUES TO BE MEASURED ONSITE ON REGULAR INTERVALS OR MINIMUM 2 PER LOCATIONS, AS THEY ARE IDENTIFIED AS FULL PAVEMENT CONSTRUCTION. ADDITIONAL TEST MAY BE REQUESTED.
- CONTRACTOR TO POSITIVELY IDENTIFY EXISTING UTILITIES IN THE VICINITY OF THE WORKS PRIOR TO EXCAVATION. AS PER AS BUILT INFORMATION AND C2 ENQUIRIES THE AVERAGE DEPTH OF UTILITIES SHALL BE GREATER THAN 500mm BUT ANY NECESSARY MEASURE AND PRE CONSTRUCTION LIAISON WITH UTILITY PROVIDERS IS RECOMMENDED PRIOR TO COMMENCEMENT OF WORKS. REFER TO CROSS SECTION DRAWING NO'S 60160078-ACM-SHT-30-0120-CT-0121 TO 128 AND UTILITIES DRAWING NO'S 60509148-ACM-SHT-30-0140-CT-0140 TO 0148.
- WHILE IMPLEMENTING THE PAVEMENT DESIGN THE FOLLOWING ASSUMPTIONS WERE MADE:
  - DESIGN LIFE OF 2MSA.
  - FOUNDATION TYPE 2, RESTRICTED WITH SUBBASE ONLY. FOUNDATION DEPTH OPTIMISED AS AGREED WITH VOGC ANTICIPATING THAT THE SUBBASE WILL ACT AS REGULATORY LAYER TO ALLOW ASPHALT CONSTRUCTION ( IN ACCORDANCE WITH CD 225 FIGURE 3.18).
  - ASPHALT THICKNESS, 200mm WITH AC 40/60 ASPHALT BASE AS. IN ACCORDANCE WITH CD 226 FIGURE A.1.
- MEASURES SHOULD BE DEPLOYED TO ENSURE NOISE, VIBRATION, DUST ARE MINIMIZED DUE TO CONSTRUCTION ACTIVITY.



SUBGRADE CBR	SUB BASE (mm)	FOUNDATION TYPE
CBR> 15%	200	1
	150	2
CBR> 10%- 15%	230* (NOTE 6.)	1
	180	2
CBR> 5%- 10%	320* (NOTE 6.)	1
	240	2
CBR> 2.5% - 5%	450* (NOTE 6.)	1
	350	2

Level Increase (mm)	Mill (mm)*	New Base Course (mm)****	New (lower) Binder Course (mm)**	New (upper) Binder Course (mm)**	New Surface Course (mm)***
0	-40				40
10	-30				40
20	-20				40
30	-10				40
40	-60			60	40
50	-50			60	40
60	-40			60	40
70	-30			60	40
80	-20			60	40
90	-10			60	40
100	-10			70	40
110	-10			80	40
120	-10			90	40
130	-10			100	40
140	-10		60	50	40
150	-10		60	60	40
160	-10		70	60	40
170	-10		80	60	40
180	-10		90	60	40
190	-10		90	70	40
200	-10		90	80	40
350	-10			60	40
370	-10			60	40



*	Minimum requirement to mill 10mm
**	Permitted range [BS.594987] 50-100mm
***	Permitted range [BS.594987] 40mm
****	Permitted range [BS.594987] 70-150mm for AC32 base

	PAVEMENT OPTION 1: OVERLAY 0-40mm	PAVEMENT OPTION 2: OVERLAY 40-130mm	PAVEMENT OPTION 3: OVERLAY 130-370mm	PAVEMENT OPTION 4: ROAD RECONSTRUCTION
"SURFACE COURSE THICKNESS & MATERIAL"	SMA 14 BIN 40/60, 40MM THICK, MIN PSV 60	SMA 14 BIN 40/60, 40MM THICK, MIN PSV 60	SMA 14 BIN 40/60, 40MM THICK, MIN PSV 60	SMA 14 BIN 40/60, 40MM THICK, MIN PSV 60
"BINDER COURSE THICKNESS & MATERIAL"		"AC20 DENSE BIN100/150 THICKNESS REFER TO TABLE 2"	"AC20 DENSE BIN100/150 THICKNESS REFER TO TABLE 2"	"AC20 DENSE BIN100/150 THICKNESS 60MM"
"BASE COURSE THICKNESS & MATERIAL"			"AC32 DENSE BIN100/150 THICKNESS REFER TO TABLE 2"	"AC32 DENSE BIN100/150 THICKNESS 100MM"

DETAILED DESIGN		
ISSUE/REVISION		
NO	DATE	DESCRIPTION
C	07/07/2021	FOR PRICING
B	26/02/2021	DETAILED DESIGN
A	16/12/2020	DRAFT DETAILED DESIGN