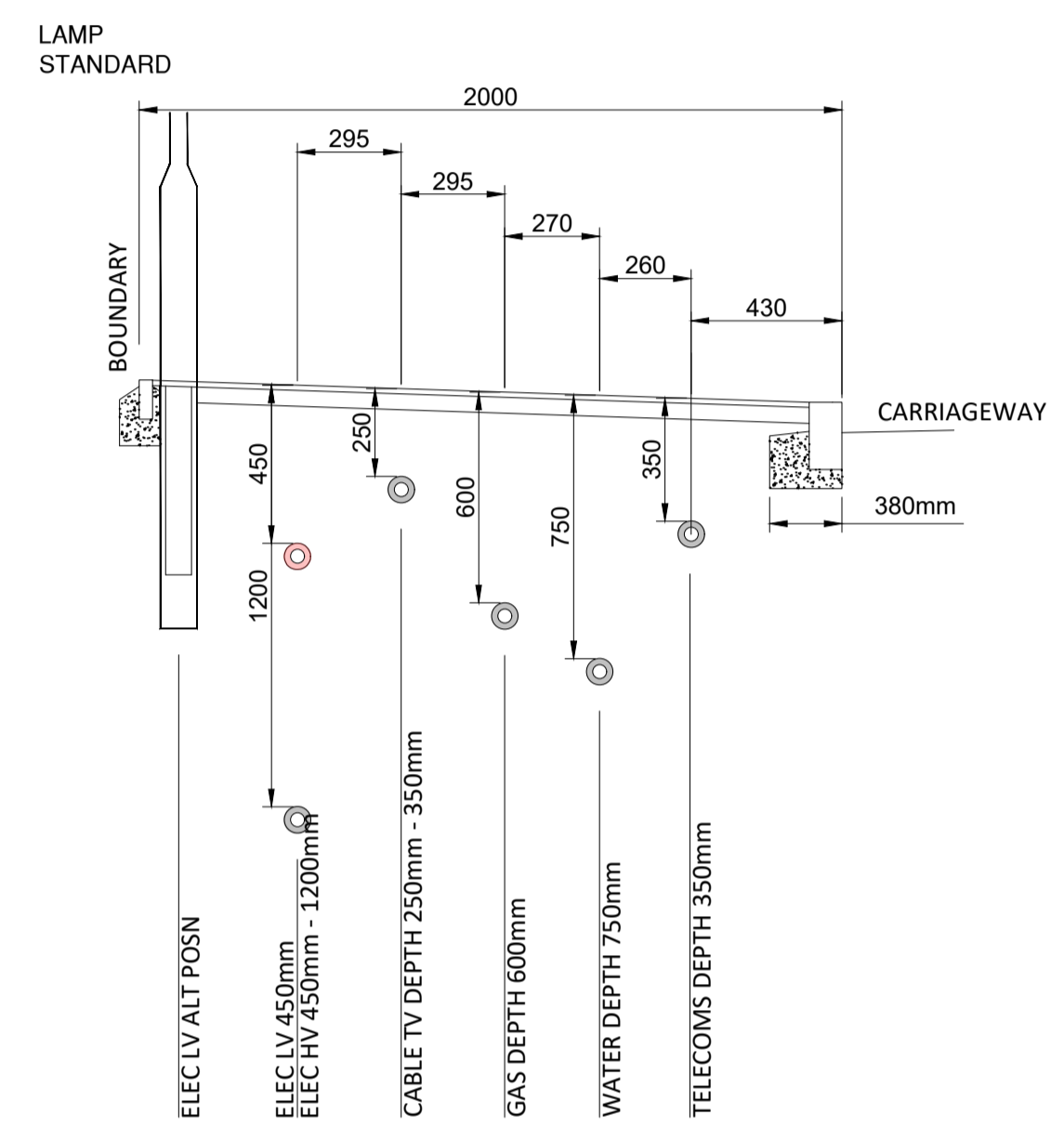


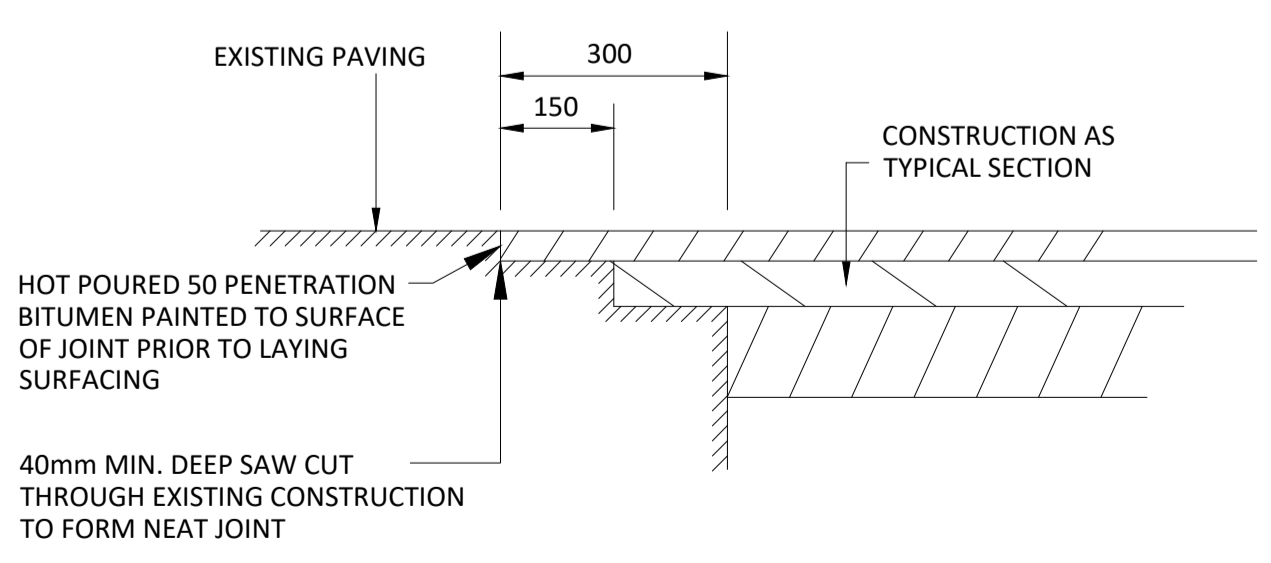
**TYPICAL ROAD CROSS SECTION OF ACCESS ROAD**



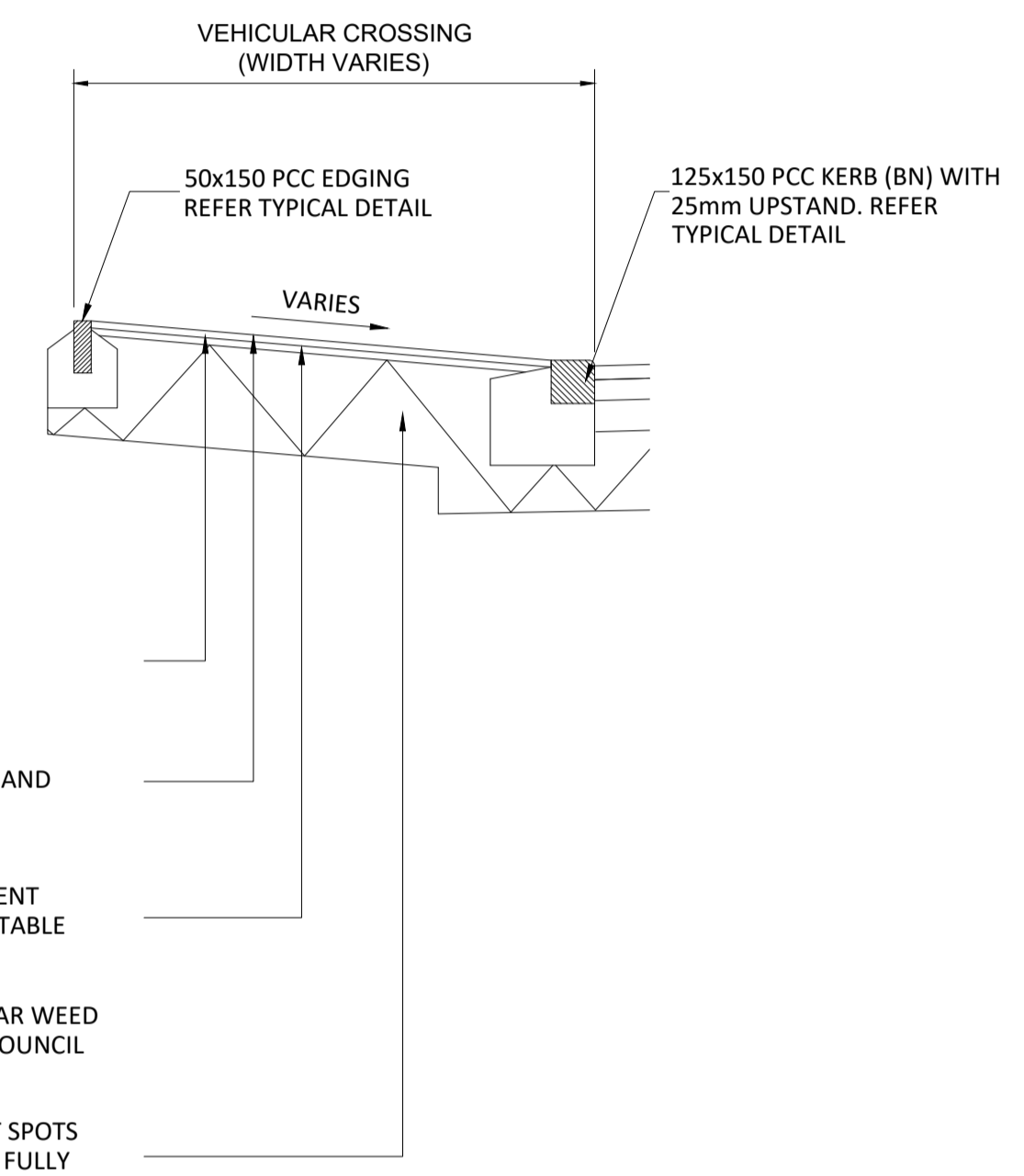
**RECOMMENDED POSITIONING OF UTILITY APPARATUS IN A 2 METRE FOOTWAY**  
SCALE 1:20

**NOTES**

1. PREFERRED LAYOUT FOR MAINS IN AN 2000mm MINIMUM WIDTH FOOTWAY FOR NEW WORKS, (WHERE THIS WIDTH IS TO BE PROVIDED AS PART OF THE APPROVED LAYOUT).
2. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH NJUG GUIDELINES.
3. THE CONTRACTOR'S ATTENTION IS DRAWN TO THE ECONOMIC ADVANTAGES OF UTILISING "COMMON-TRENCHING" TECHNIQUES FOR INSTALLATION OF SERVICES IN FOOTWAYS WHEREVER PRACTICABLE.
4. THE MINIMUM DEPTH OF ANY SERVICE UNDER THE LOCATION OF A PROPOSED NEW ACCESS SHALL BE 450mm TO THE CROWN OF THE DUCT/PIPE.
5. THE CONTRACTOR WILL ENSURE THAT THE SERVICE BOXES TO THE PUBLIC UTILITIES PLANT ARE ORIENTATED SO THAT THEY ARE IN LINE WITH ANY BLOCKWORK AREAS, AVOID DROPPED KERBS (OF ANY TYPE) AND ARE IN GENERAL STRAIGHT TO THE KERB LINE.
6. SERVICES ARE TO BE PROTECTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT STATUTORY AUTHORITIES.



**TYPICAL DETAIL TIE-IN BETWEEN NEW & EXISTING BITUMINOUS CONSTRUCTION**  
SCALE 1:10



**VEHICULAR CROSSING CONSTRUCTION**  
SCALE 1:20

**SURFACE COURSE**  
20mm THICK (COMPRISING 2 LAYERS OF 25mm) HRA 30/14 TO CURRENT D.T.p. SPECIFICATION FOR HIGHWAY WORKS CL.910.

**BINDER COURSE**  
60mm HRA 50/14 BIN 40/60 TO BS EN 13108 LAID IN 2 LAYERS AND COMPACTED TO BS EN 594987:2007.

**SUB-BASE**  
150mm THICK TYPE 1 UNBOUND MIXTURE SUB-BASE TO CURRENT D.T.p. SPECIFICATION FOR HIGHWAY WORKS CL.802 & CL.803, TABLE 8/2.

SUBGRADE BELOW FOOTWAYS TO BE TREATED WITH GRANULAR WEED KILLER PRIOR TO LAYING OF SUB-BASE TO NORFOLK COUNTY COUNCIL REQUIREMENTS.

FORMATION LEVEL TO BE PROOF ROLLED TO CLAUSE 609, SOFT SPOTS TO BE EXCAVATED BACK TO GOOD GROUND AND FILLED WITH FULLY COMPACTED TYPE 1 SUB-BASE MATERIAL TO THE SPECIFICATION FOR HIGHWAY WORKS CLAUSE 616, OR ALTERNATIVE AS AGREED WITH THE HIGHWAY INSPECTOR.

**FOOTWAY CONSTRUCTION**  
SCALE 1:20

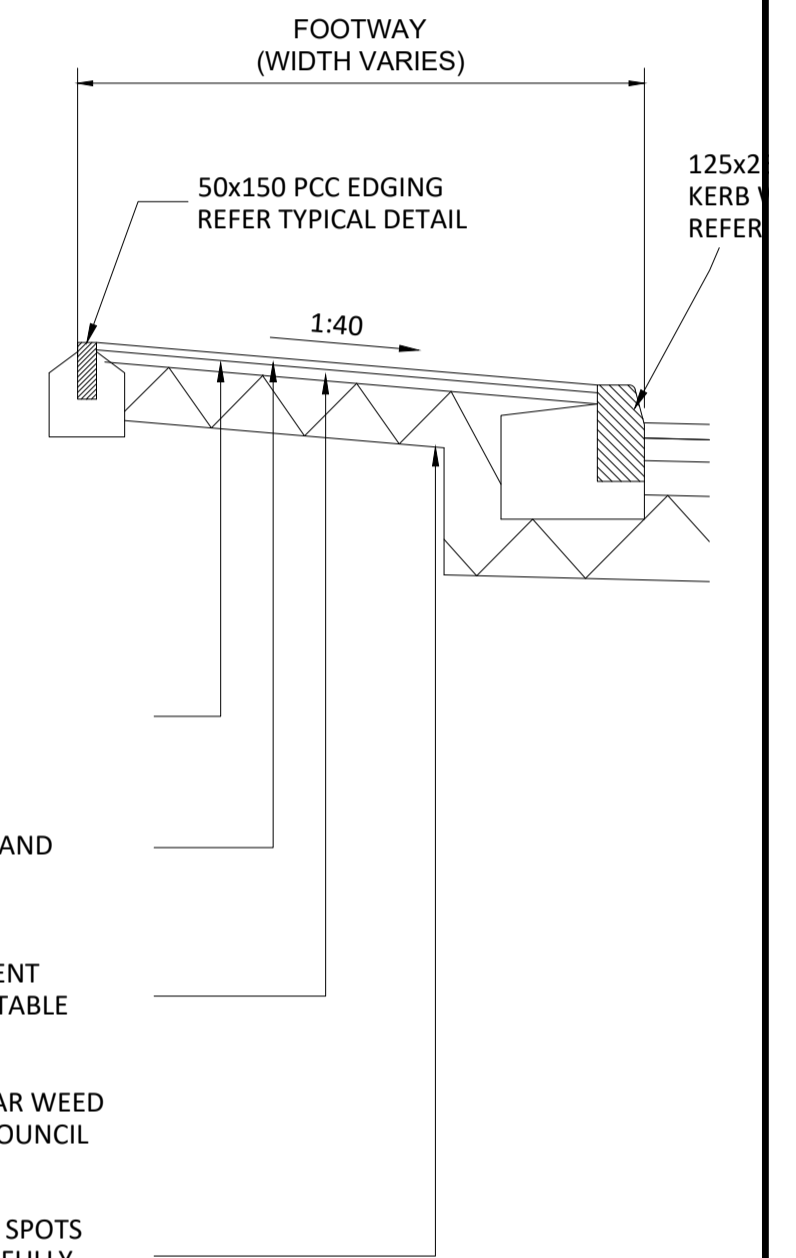
**SURFACE COURSE**  
20mm THICK (COMPRISING 2 LAYERS OF 25mm) HRA 30/14 TO CURRENT D.T.p. SPECIFICATION FOR HIGHWAY WORKS CL.910.

**BINDER COURSE**  
60mm HRA 50/14 BIN 40/60 TO BS EN 13108 LAID IN 2 LAYERS AND COMPACTED TO BS EN 594987:2007.

**SUB-BASE**  
150mm THICK TYPE 1 UNBOUND MIXTURE SUB-BASE TO CURRENT D.T.p. SPECIFICATION FOR HIGHWAY WORKS CL.802 & CL.803, TABLE 8/2.

SUBGRADE BELOW FOOTWAYS TO BE TREATED WITH GRANULAR WEED KILLER PRIOR TO LAYING OF SUB-BASE TO NORFOLK COUNTY COUNCIL REQUIREMENTS.

FORMATION LEVEL TO BE PROOF ROLLED TO CLAUSE 609, SOFT SPOTS TO BE EXCAVATED BACK TO GOOD GROUND AND FILLED WITH FULLY COMPACTED TYPE 1 SUB-BASE MATERIAL TO THE SPECIFICATION FOR HIGHWAY WORKS CLAUSE 616, OR ALTERNATIVE AS AGREED WITH THE HIGHWAY INSPECTOR.



**ADOPTABLE CARRIAGEWAY CONSTRUCTION**  
SCALE 1:20

	A SURFACE COURSE	HRA 30/14 F SURF 40/60 TO BS EN 13108 LAID AND COMPACTED TO BS EN 594987:2007 WITH 20mm PRE COATED CHIPPINGS TO COMPLY WITH BS EN 13108-4.	40
	B BINDER COURSE	HRA 50/14 BIN 40/60 TO BS EN 13108 LAID IN 2 LAYERS AND COMPACTED TO BS EN 594987:2007.	60
	C BASE COURSE	HRA 60/32 BASE 40/60 BS EN 13108 LAID AND COMPACTED TO BS 594987:2007.	100
	D SUB-BASE	TYPE 1 UNBOUND MIXTURE SUB-BASE TO CURRENT D.T.p. SPECIFICATION FOR HIGHWAY WORKS CL.802 & CL.803 TABLE 8/2. FOR DEPTHS SEE TABLE BELOW.	REFER TO TABLE 2
	E CAPPING LAYER	TYPE 6F2 CAPPING MATERIAL TO CURRENT D.T.p. SPECIFICATION FOR HIGHWAY WORKS CL.601 TABLE 6/1 & CL.612. FOR DEPTHS SEE TABLE BELOW.	REFER TO TABLE 2

**TABLE 2**

MEASURED CBR VALUES	REQUIRED DEPTH OF SUB-BASE	REQUIRED DEPTH OF CAPPING MATERIAL
CBR ≥ 5%	255mm (MINIMUM THICKNESS)	-
CBR >2<5%	150mm	350mm
CBR <2%	150mm	600mm

revision	description	date
A	Footway & Road Construction Details	19.02.21

**HAMCO DEVELOPMENTS**  
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Shrewsbury 24 Kenwood Drive, Shrewsbury, Shropshire, SY3 8SY

project:  
Land adjoining 'Trem Hirnant' Manafon, Powys, SY21 8BX

drawing:  
Road Setting Out -Construction Details

scale	date	drawn
AS @ A1	August 2021	MH

dwg no	rev
0192_H_GA_03	A