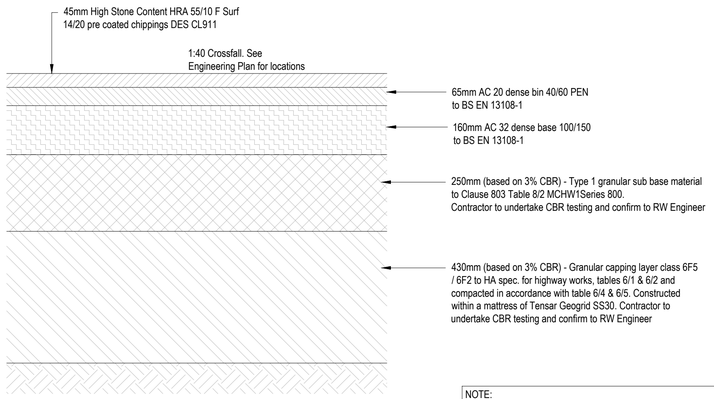


ADOPTABLE CARRIAGEWAY

Scale 1:10

		CAPPING OPTION			SUB-BASE ONLY OPTION
Subgrade Surface Modulus	**Equivalent CBR**	**Sub-base Thickness**	**Capping Thickness**	**Foundation Total Thickness**	**Sub-base Only Thickness**
<30 MPa	<2.3%	250mm	430mm	680mm *	420mm*
≥30 MPa to <50 MPa	≥2.3% to <5.1%	250mm	430mm	680mm	420mm
≥50 MPa to <65 MPa	≥5.1% to <7.7%	200mm	250mm	450mm	270mm
≥65 MPa to <77 MPa	≥7.7% to <10.0%	160mm	220mm	380mm	240mm
≥77 MPa to <100 MPa	≥10.0% to <15.1%	150mm	190mm	340mm	220mm
≥100 MPa	≥15.1%	150mm	150mm	300mm	200mm

Table 1 - Capping Requirement Table. Contractor to undertake CBR tests before construction to inform subbase design

- Subgrade Surface modulus banding based on CD225 & TG6-1
- Table provides RFD Class 2 Foundation thickness
- Sub-base MCHW1 803, 804, 806, 807
- Capping MCHW1 613
- Where MPa values fall mid-band, foundation design based on the lower MPa value for that band (As per TG6-1)

* Subgrades with design subgrade Surface modulus value lower than 30MPa are unsuitable to support the construction of a pavement foundation. Excavation & replacing of 500mm min. soft subgrade with granular fill.

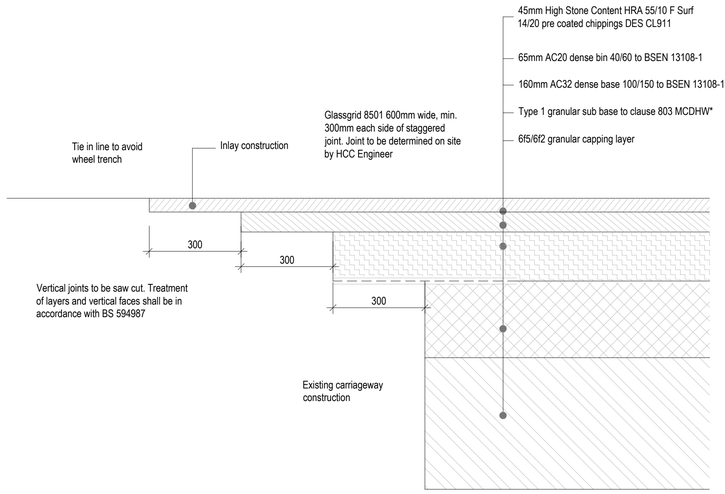
NOTE:
During the first week of construction, equilibrium CBR values shall be established within the carriageway area.

A minimum non-frost susceptable 450mm construction depth is required.

Minimum Plate Bearing CBRs of 15% must be achieved at the top of constructed capping layer.

Minimum Plate Bearing CBRs of 30% must be achieved at the top of constructed sub-base layer.

All areas regarded as 'soft spots' are to be excavated and replaced with suitable material within the extents of new Public Highway. The Contractor must assess areas of former foundations and trees to ensure 'soft spots' are dealt with satisfactorily.



TYPICAL TIE IN DETAIL

Scale 1:10

DO NOT SCALE OFF THIS DRAWING

GENERAL NOTES:

1. All dimensions to be checked on site. All details and dimensions relating to sub-Contractors work must be checked and agreed between the sub-Contractor or supplier and the general Contractor.
2. This drawing is to be read in conjunction with all relevant Architect's and Engineer's drawings and specification.
3. The main Contractor is responsible for ensuring the stability of the structure whilst the works are in progress.
4. Any information given regarding existing underground services is given in good faith after consultation with the relevant authority. No liability is accepted by the Consultant and the main Contractor is responsible for obtaining and checking all information and taking due care and attention whilst undertaking the works.

CDM 2015 RESIDUAL RISKS

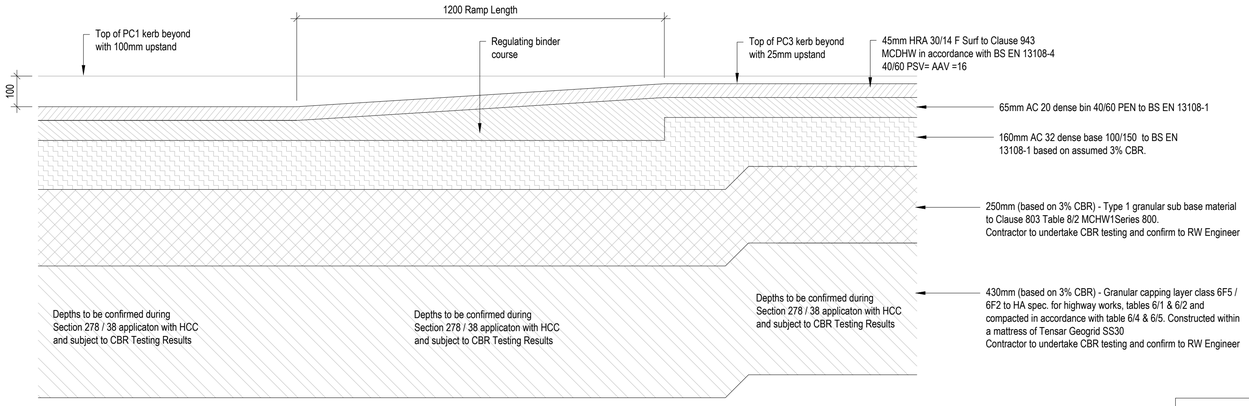
1. All areas of live traffic and pedestrian movements shall be subject to appropriate traffic management barriers and signs.
2. Access points onto live public highway.
3. Unauthorised access to the site must be prevented at all times
4. Existing road drainage to be maintained.
5. Be aware of possible live drainage flows and foul effluent during construction.
The Contractor shall assess and implement a safe working system and equipment (PPE) as necessary.

The above residual risks are for non-standard hazards. It is assumed that a competent contractor familiar with the construction of this type of work will be appointed who will be aware of the standard hazards.

ALL ADOPTABLE HIGHWAY WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH HAMPSHIRE COUNTY COUNCIL GUIDANCE, SPECIFICATIONS AND DETAILS

SKID RESISTANT MANHOLE COVERS TO BE USED FOR MANHOLES IN JUNCTIONS

PEDESTRIAN / CYCLE-FRIENDLY MESH GRATINGS TO BE USED ON THE TWO GULLIES LOCATED ON THE NORTH END OF ROAD 5



RAISED TABLE

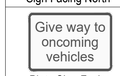
Scale 1:10

Table Detail to be read in conjunction with HCC Drawing HCC11/C/100

SIGN POSTS AND SIGNS TO BE INSTALLED AS PER HAMPSHIRE COUNTY COUNCIL DRAWING HCC11/C/155.

HORIZONTAL CLEARANCE FOR SIGNS OF 0.5m SHALL BE PROVIDED FROM THE EDGE OF THE TRAFFICKED CARRIAGEWAY

PROPOSED POST AND SIGN SCHEDULE DETAILS LIST

New Sign Post Ref.	Post Type	Mounting Height Clearance Below	Sign	Diagram No.	Sign Face Dimensions		Sign Face Colour		Illumination	Notes
A	Single Post 88.9mmØ X 3.2 CHS sign post as per HCC Drawing HCC11/C/155	2300mm	Sign Facing South	550.1	x Height	-	Background	White	Reflectorised Class RA2	Permanent Sign located 45m from Crossing
					Size (mm)	600	Border	Red		
					Area (m^2)	0.24	Legend	Black		
			Sign Facing South	950	x Height	-	Background	White	Reflectorised Class RA2	Permanent Sign located 45m from Crossing
					Size (mm)	600	Border	Red		
					Area (m^2)	0.24	Legend	Black		
B	Single Post 88.9mmØ X 3.2 CHS sign post as per HCC Drawing HCC11/C/155 With back to back signs	2300mm	Sign Facing South	811	x Height	-	Background	Blue	Reflectorised Class RA2	Permanent Sign located on Road 6 Buildout
					Size (mm)	525 x 600	Border	Blue		
					Area (m^2)	0.315	Legend	White / Red		
			Plate Sign Facing South below 811		x Height	50mm	Background	White	Reflectorised Class RA2	Permanent Sign located on Road 6 Buildout
					-	-	Border	Black		
					-	-	Legend	Black		
			Sign Facing North	615	x Height	-	Background	White	Reflectorised Class RA2	Permanent Sign located on Road 6 Buildout
					Size (mm)	600	Border	Red		
					Area (m^2)	0.24	Legend	Black / Red		
			 Plate Sign Facing North below 615		x Height	50mm	Background	White	Reflectorised Class RA2	Permanent Sign located on Road 6 Buildout
					-	-	Border	Black		
					-	-	Legend	Black		

HAMPSHIRE STANDARD DETAILS LIST

Detail Reference	Detail Title	Detail Type
HCC11/C/010	Upstand Kerb100mm Upstand Kerb 25mm Flush Kerb	Type PC1 Type PC3 Type PC4
HCC11/C/026	Highway Marker Block	105mm wide
HCC11/C/045	Footway	Type 1A
HCC11/C/060	Uncontrolled Pedestrian Crossing in New Works	-
HCC11/C/100	Flat Top Road Hump	-
HCC11/C/155	Traffic Sign Post Foundation	-
HCC11/D/015	Gully	Type 1
HCC11/L/030	Externally Illuminated Sign Arrangements and Foundation Details	-
HCC11/M/025	Carriageway Haunch Repair Details	-
HCC11/M/030	Carriageway Repair Details	-
HCC11/M/040	Vehicle Crossover	-

PROPOSED WHITE LINING DETAILS LIST

The Traffic Signs Regulations and General Directions 2016 TSRGD Reference	Title	Dimensions
1003A	Give way end markings on Road	200mm thick lines 600mm long lines 300mm gaps
1004	Centre line markings on Road	100mm thick lines 4000mm long lines 2000mm gaps
1009A	Edge of Carriageway Marking	100mm thick lines 600mm long lines 300mm gaps
1023A	Give Way Marking	3750mm x 1250mm

Revision History

Rev	Comment	By	Chkd	Appr	Date
A03	MINOR UPDATES	PR	PR	SB	26/10/2025
A02	MINOR UPDATES	PR	PR	SB	06/06/2025
A01	ISSUED FOR APPROVAL	BS	PR	SB	14/03/2025
Current Revision					
A04	UPDATED TO SUIT HCC AJDIT COMMENTS	PR	PR	SB	14/01/2026

FOR APPROVAL

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Project
WATERLOOVILLE - BEREWOOD
PHASE 8a

Drawing Title
S38 CONSTRUCTION DETAILS

RWCL Internal Register reference: 4166-002 Scales @ A1

6091 - A04

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