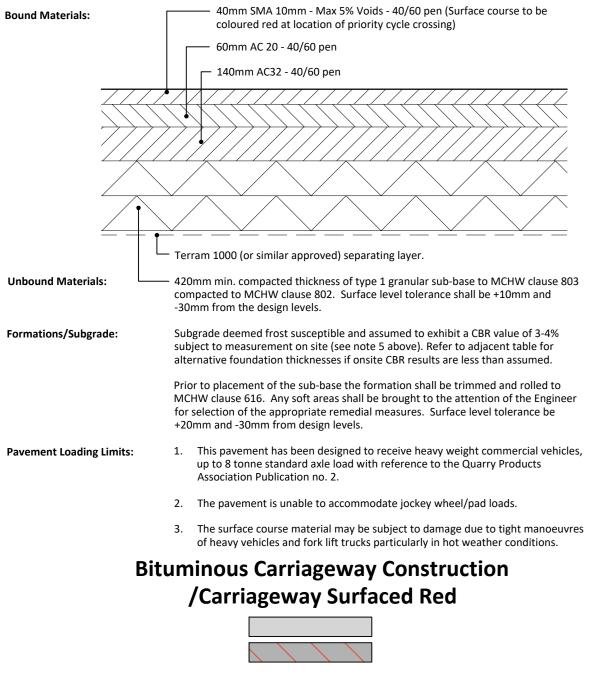
Notes & Specification

- 1. Pavement construction shown below shall be generally constructed in accordance with the current Highways Agency Manual of Contract Documents for Highway Works, Volume 1, Specification for Highway Works (MCHW).
- 2. Bituminous mixtures shall be to the current BS EN 13108 series, BS 594987 and PD 6691.
- 3. If this pavement construction does not extend to a total thickness of 450mm and thus does not penetrate soils which may be affected by frost action. There is a risk of frost heave of the sub grade occurring in prolonged severe winter events causing damage to the pavement. Thickening of the pavement towards 450mm will reduce the risk. 4. 400mm compacted thickness of granular sub-base alone will carry up to 3200 standard 8 tonne axles producing up to
- 50mm of rutting in turning as based on a sub grade CBR of 2%. Additional thickening to carry construction traffic in excess of 3200 standard 8 tonne axles will be required. Any surface damage to the sub-base due to the construction traffic shall be repaired to the satisfaction of the Engineer prior to the placement of the bound materials.
- 5. The sub grade CBR shall be measured and reported to the Engineer to check the pavement design prior to construction. 6. Where pavements are constructed on subgrades that have volume change potential and where roots of vegetation are below the pavement formation, there is a risk that movement may occur resulting in cracking being evident in the surface
- course, particularly during prolonged periods of dry weather. To reduce this risk, the formation depth shall be increased. 7. Where SMA is used for resurfacing, the binder course shall be regulated where required if not replacing completely and a proper polymer-modified bond coat applied before surfacing.

8. All bituminous layers shall be 40/60 pen and 'warm-mix' if available.

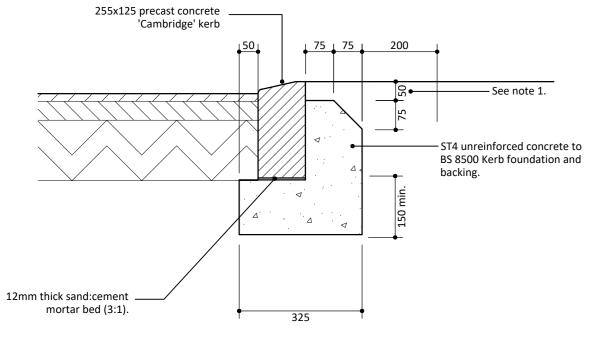




Foundation CBR Table				
CBR (%)	Subbase on Capping (mm)		Subbase Only (mm)	
	Subbase Thickness	Capping Thickness	Subbase Only (mm)	
Less than or equal to 2.5	Ground Stabilisation		Ground Stabilisation	
2.5 - 5.0	250	420	420	
5.0 - 7.5	200	250	265	
7.5 - 10.0	165	220	240	
10.0 - 12.5	150	200	220	
12.5 - 15	150	170	210	
Greater than or equal to 15.0	150	150	200	
 All subbase is to be Type 1 in compliance with MCHW1 clause 803. All capping is to be 6F2 or 6F5 in compliance with MCHW1 clause 613. 				

• Grading certificates for all granular fill are to be provided for every 500 tonnes. • Foundations on cohesive soils are to use subbase on capping foundation type. Ground Stabalisation

Method and design of ground stabilisation is to be approved by OCC's engineer prior to implementation. Methods available include: • Line/cement soil stabilisatin - with cohesive soils Increased capping - if a suitable load bearing soil is within 1m of formation Geo-grid - if both of the above options are not possible



Notes

- 1. Kerb backing normally brought up to 50mm below top of kerb, but where final surface of adjacent foot way is flagged, kerb backing shall finish 75mm below top of kerb.
- 2. Gap between kerbs shall be 1 to 2mm.
- 3. Radius kerbs shall be used where the radius is less than 12m. 4. Kerb face to be shuttered and mechanically vibrated to ensure proper compaction.

Limitations Of Use

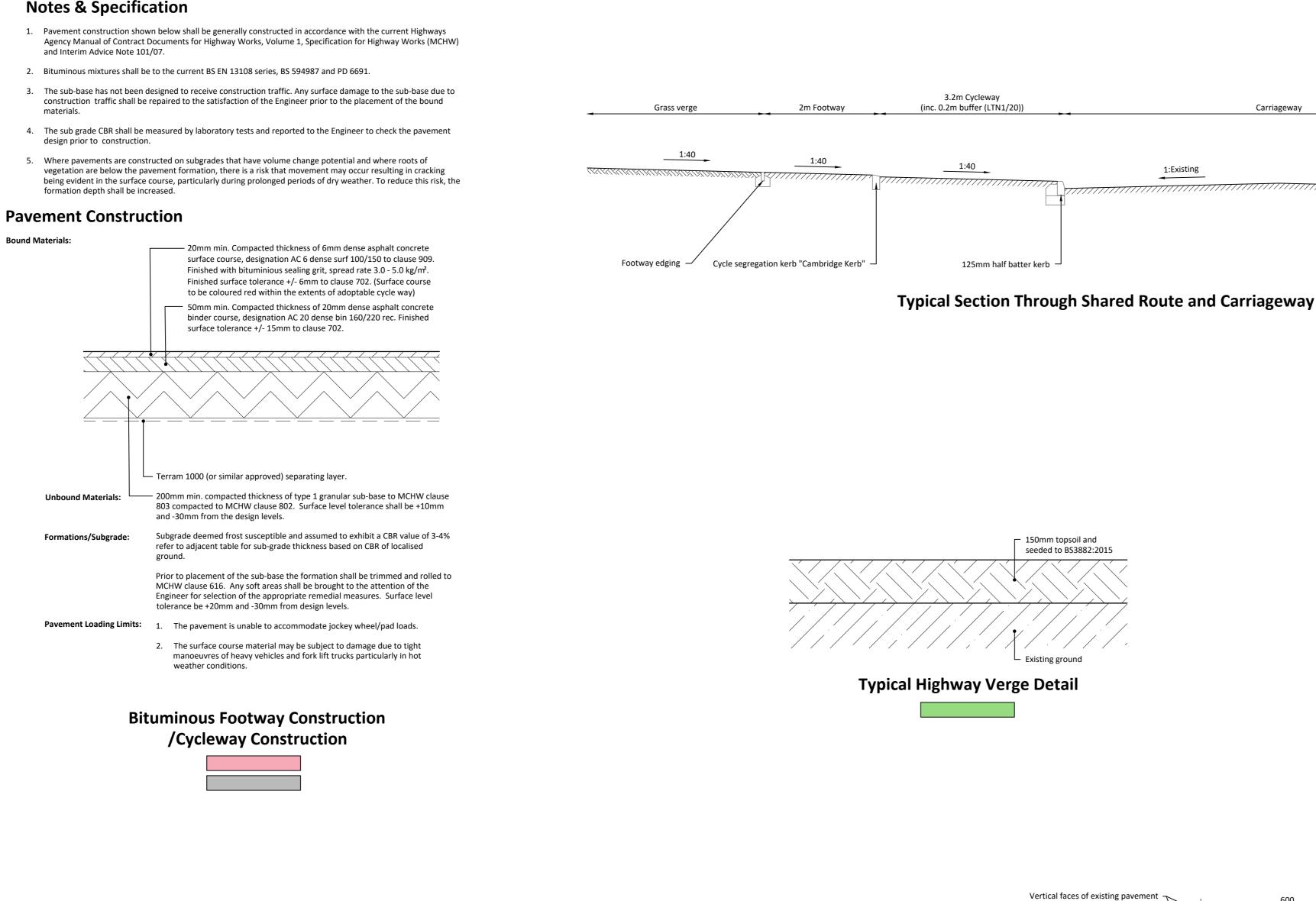
- 5. For use as an edging to pavements accommodating normal traffic loadings and manoeuvres.
- 6. Edging may fail or be damaged by direct impact from heavy vehicle loads.

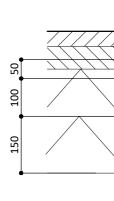
Precast Concrete 'Cambridge' Kerb

Notes & Specification

- materials.
- design prior to construction.

Pavement Construction





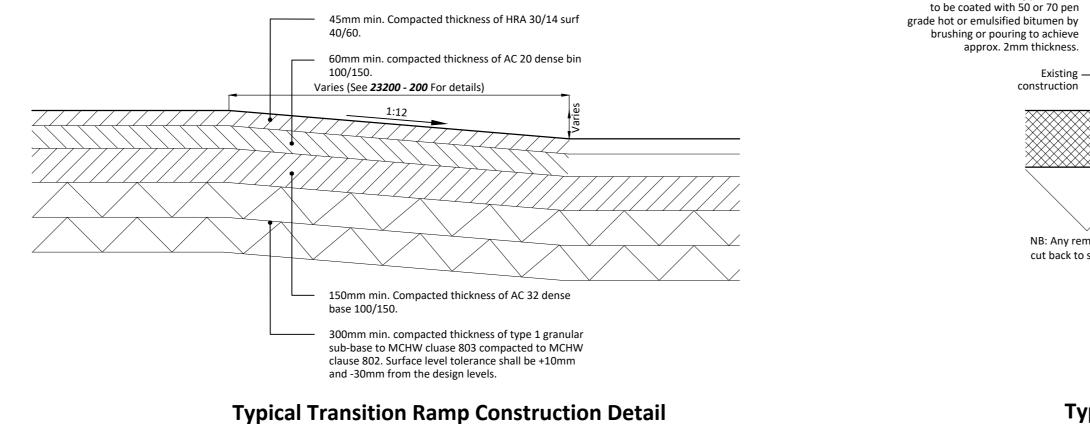
Notes

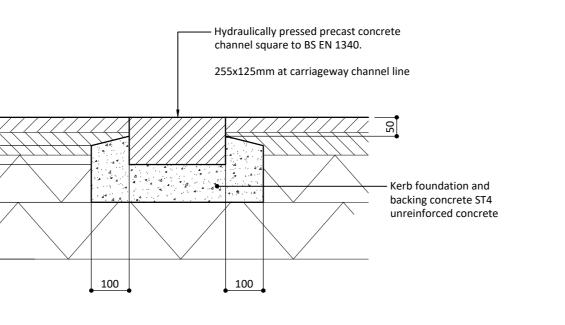


nit 12A. Warwick Innovation Centre, /arwick Technology Park, Gallows Hill, Warwick, CV34 6UW • 02476 100530

Suite 8, Branksome Park House, Branksome Buisness Park, ourne Valley Road, Pool, Dorset, BH12 1ED 01202 540888

E: mail@jppuk.net W: jppuk.net

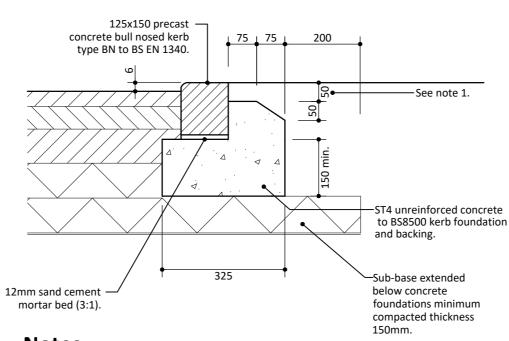




1. Kerb backing normally brought up to 50mm below top of kerb, but where final surface of adjacent foot way is flagged, kerb backing shall finish 75mm below top of kerb. 2. Gap between kerbs shall be 1 to 2mm.

3. Precast concrete edgings shall be cut to accommodate tight radii

4. Kerb face to be shuttered and mechanically vibrated to ensure proper compaction.



Notes

- 1. Kerb backing normally brought up to 50mm below top of kerb, but where final surface of adjacent foot way is flagged, kerb backing shall finish 75mm below top of kerb.
- 2. Gap between kerbs shall be 1 to 2mm.
- 3. Precast concrete edgings shall be cut to accommodate tight radii.
- 4. Kerb face to be shuttered and mechanically vibrated to ensure proper compaction.
- Limitations Of Use
- 5. To be used for edging footways only

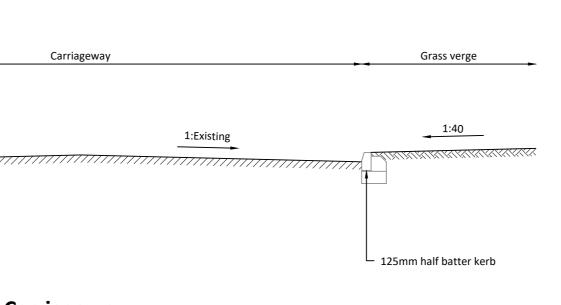
Precast Concrete Bullnosed Kerb

Notes

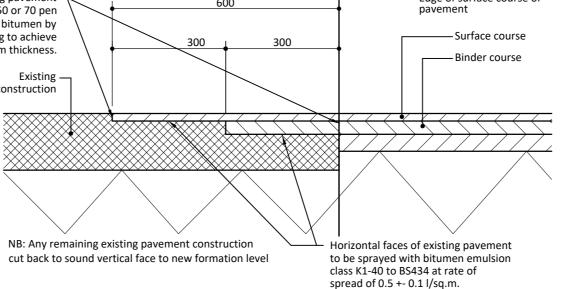
- 2. Gap between kerbs shall be 1 to 2mm.

- Limitations Of Use 5. To be used for edging footways only

Precast Concrete Channel Block Detail



Edge of surface course of



Typical Tie In To Existing Construction Detail

┶┵┶┙ Road Retaining Bar 5mm below carriageway surface Surface Course Binder Course Class B Engineering -Brickwork 50mm gap left in brickwork for drainage of pavement layers Concrete Mix ST2/C40 — surround 450 4 150mm Bed Concrete ______4 4 . 4

Mix ST4/C20

Notes

- 1. All dimensions in millimetres. 2. Mortar for brickwork shall be designation (i) unless shown or instructed otherwise.
- Alternative Types of Gully Pot: UPVC former But with Concrete Mix ST4/C20 surround. 3.
- 4. Where a PCC Gully is to be connected to UPVC Pipes, the connection is to be made using an approved adapter. Kerb Offlet Gully Detail

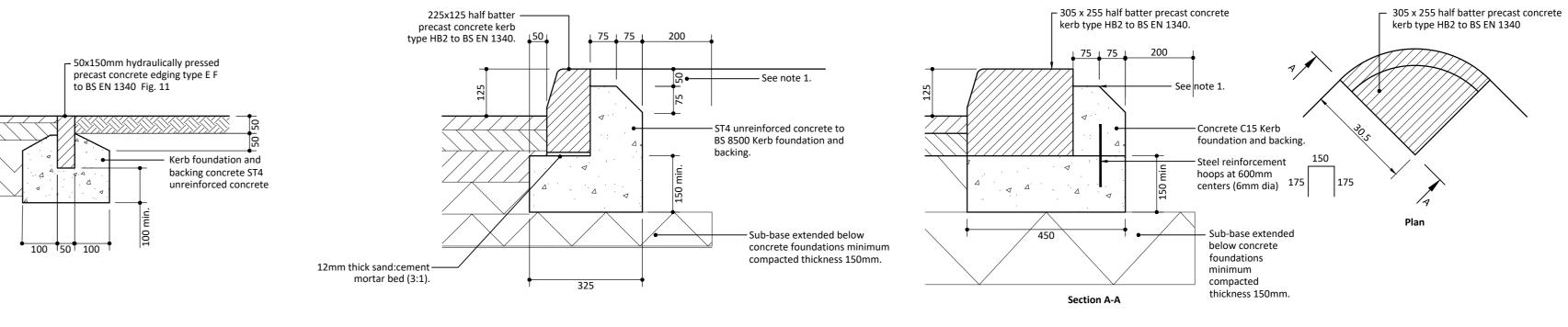
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Type EF footway edging || **↓** || *↓* 400 x 400 x 50mm Hazard warning corduroy paving slab. Cycleway 2.4m Kerb 1. Nominal size of slabs to be 400mm x 400mm. Carriageway 2. First two rows of slabs to be level with carriageway Typical Corduroy Paving Arrangement For Use At Start/End of Segregated Shared Route 4. No tactile paving slab should be less than 1/3 of the slab size, however a continuous joint should be maintained. Notes

1. Nominal size of slabs to be 400mm x 400mm. 2. Corduroy paving slabs to be buff coloured

Typical Corduroy Paving Detail



1. Kerb backing normally brought up to 50mm below top of kerb, but where final surface of adjacent foot way is flagged, kerb backing shall finish 75mm below top of kerb.

3. Precast concrete edgings shall be cut to accommodate tight radii.

4. Kerb face to be shuttered and mechanically vibrated to ensure proper compaction.

Precast Concrete Footway Edging

Notes

- 1. Kerb backing normally brought up to 50mm below top of kerb, but where final surface of adjacent foot way is flagged, kerb backing shall finish 75mm below top of kerb.
- 2. Gap between kerbs shall be 1 to 2mm.
- 3. Radius kerbs shall be used where the radius is less than 12m.

4. Kerb face to be shuttered and mechanically vibrated to ensure proper compaction. Limitations Of Use

- 5. For use as an edging to pavements accommodating normal traffic loadings and manoeuvres.
- 6. Edging may fail or be damaged by direct impact from heavy vehicle loads.

Precast Concrete Half Battered Kerb

Rev C 'Cambridge' kerb detail included and carriageway construction material revised following comment from Oxfordshire Highways on 02.02.2022 Rev B following comments from Oxfordshire highways on 18.01.2022

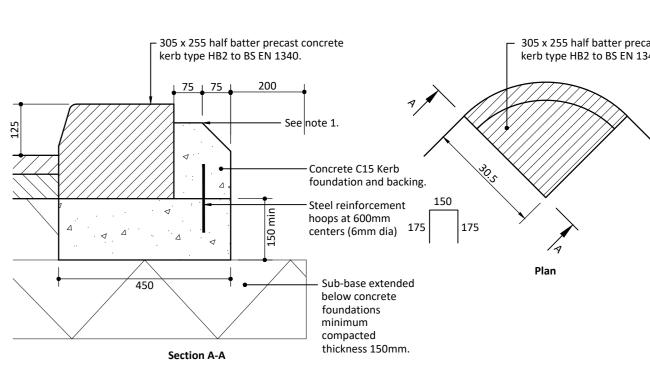
 Infrastructure Design

- Structural Engineering
- Development Planning

Geotechnical & Environmental

- Surveying
- Professional Advice

Drawn By:	WL	Clien
Chkd By:	HS	Proje
Scale @ A0:	NTS	
Date:	December 2021	Title
Status:	FOR TECHNICAL APPROVAL	
Project No.:	23200	Draw

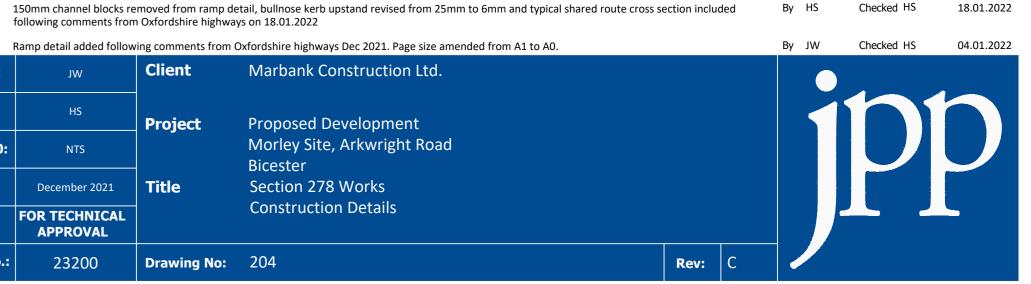


Notes

- Limitations of Use
- separate operations.

Rev A Ramp detail added following comments from Oxfordshire highways Dec 2021. Page size amended from A1 to A0.

Proposed Development Morley Site, Arkwright Road Bicester Section 278 Works Construction Details



By HS

Checked HS 02.02.2022

Precast Concrete Half Batter Quadrant Kerb Detail

3. Edging may fail or be damaged by direct impact from heavy vehicle loads.

Marbank Construction Ltd.

2. For use as an edging to pavements accommodating normal traffic loadings and manoeuvres.

1. Detail to be used where foundation concrete, kerb laying and haunching are carried out in

4. Kerb face to be shuttered and mechanically vibrated to ensure proper compaction.

3. Radius kerbs shall be used where the radius is less than 12m.

adjacent foot way is flagged, kerb backing shall finish 75mm below top of kerb. 2. Gap between kerbs shall be 1 to 2mm.

1. Kerb backing normally brought up to 70mm below top of kerb, but where final surface of

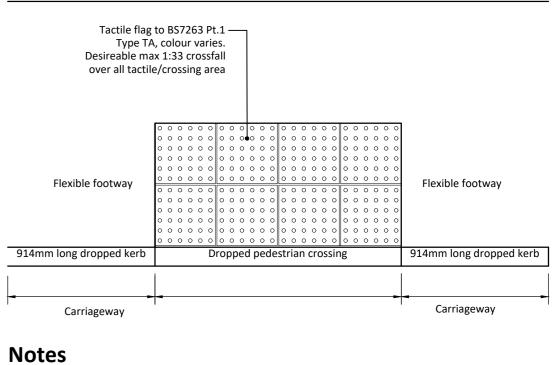
Typical Pedestrian Crossing Arrangement

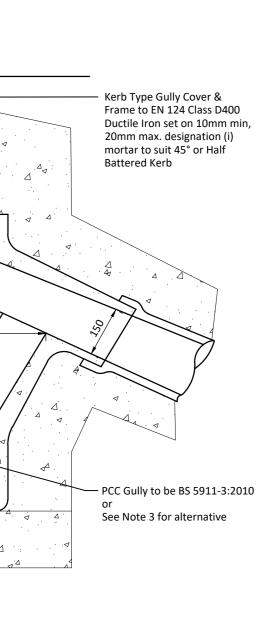
3. Flexible footway to be profiled to give the minimum gradient possible at the crossings in both directions.

6. The bullnosed kerbs should be laid flat / flush unless drainage / camber problems are encountered, then a

5. No dropped kerb should be less than half the size of the full length of the kerb.

tolerance of 5mm will be allowed.





4. All works within the highway must comply with current health & safety standards. All signing to comply with chapter 8 'Traffic Safety Measures and Signs for Road Works and Temporary Situations' of the Traffic Manual. For further Section 278 details see JPP drawings:

23200 - 200 - General Arrangement, Kerbing & Land Dedication 23200 - 201 - Site Clearance & Existing Services 23200 - 202 - Traffic Signs And Road Markings & Swept Path Analysis 23200 - 203 - Proposed Levels Plan • 23200 - 204 - S278 Construction Details

General Notes

- 1. This drawing is to be used in conjunction with all relevant drawings,
- specifications and details.
- 2. All dimensions are in metres unless noted otherwise. 3. Do not scale from this drawing.