

NOTES.
Construction to be in accordance with Lincolnshire County Council's Development Road Specification. Materials within 450mm finished road surface to be non frost susceptible.
Construction depths are based upon Construction Chart 1 in the Development Road Specification.
Design CBR of <1.5% to be used following site investigation.
Sub-base and Capping can be reduced to 620mm if all Type 1 material used.
Geotextile to have a grid aperture of a minimum 30mm x 30mm and minimum tensile strength of 40kN x 40 kN.

| CONSTRUCTION CHART 1 – NON PEROVIOUS | | | | | | |
|--|--------------------|------------------------------|---------------------------------|----------------|-------------------------------|--------------------------------|
| ROADS UP TO 0.25 msa. - NORMAL FLEXIBLE CONSTRUCTION | | | | | | |
| SUB-GRADE ^{Note 1} | SUB-BASE (mm) | | SURFACING (mm) | | TOTAL THICKNESS REQUIRED (mm) | |
| | Without geotextile | With geotextile | Binder Course ^{Note 4} | Surface Course | Without geotextile | With geotextile |
| Design CBR | | | | | | |
| Below 1½% and soft spots | Not suitable | 710 ^{Notes 2 and 3} | 130 | 40 | Not suitable | 880 ^{Notes 2,3 and 4} |
| 1½% | Not suitable | 440 | 130 | 40 | Not suitable | 610 ^{Note 4} |
| 2% | 400 | 340 | 130 | 40 | 570 ^{Note 5} | 510 ^{Note 4} |
| 3% | 310 | 300 | 130 | 40 | 480 ^{Note 5} | 470 ^{Note 4} |
| 4% ^{Note 6} | 300 | 300 ^{Note 6} | 130 | 40 | 470 ^{Note 5} | 470 ^{Notes 4 and 5} |
| 5% ^{Note 6} | 300 | 300 ^{Note 6} | 130 | 40 | 470 ^{Note 5} | 470 ^{Notes 4 and 5} |
| 6-15% ^{Note 6} | 300 | 300 ^{Note 6} | 130 | 40 | 470 ^{Note 5} | 470 ^{Notes 4 and 5} |
| Above 15% ^{Note 6} | 300 | 300 ^{Note 6} | 130 | 40 | 470 ^{Note 5} | 470 ^{Notes 4 and 5} |

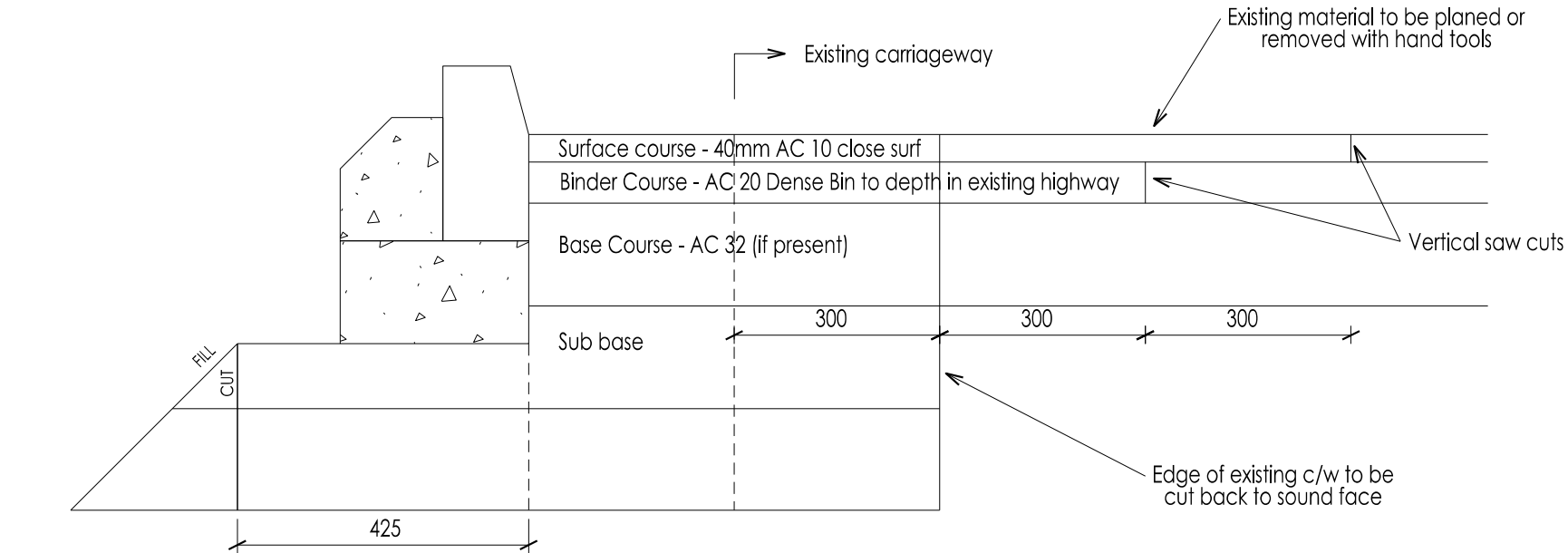
Note 1 See Clauses 1.1.6, 1.1.7 and 1.1.8

Note 2 See Clause 1.1.6 – Assumes no improvement is possible using either sub-soil drainage or soil strengthening technique. 710mm is 410mm of 6F5 Capping Layer Granular Fill to clause 6.8 and 300mm of Type 1 sub-base. The thickness of 710mm can be reduced to 620mm if all Type 1 sub-base is used.

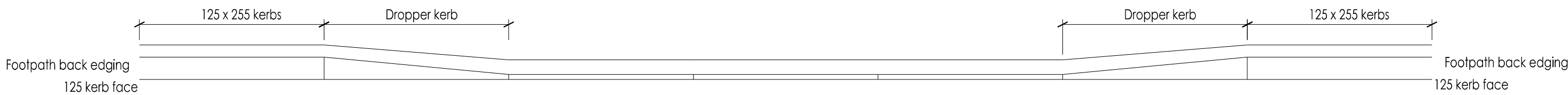
Note 3 For soft spots and sub-grades with a CBR of less than 1½% the geotextile shall be laid with an approved geogrid or shall be an approved geocomposite. Approved specialist design can be used with the agreement of the Authority.

Note 4 Initial Binder Course layer thickness 70mm if the alternative kerbing installation method (two stage construction – kerbing to be laid at a later stage) is used. Total Binder Course thickness remains 130mm in these circumstances. See Clause 1.1.17.

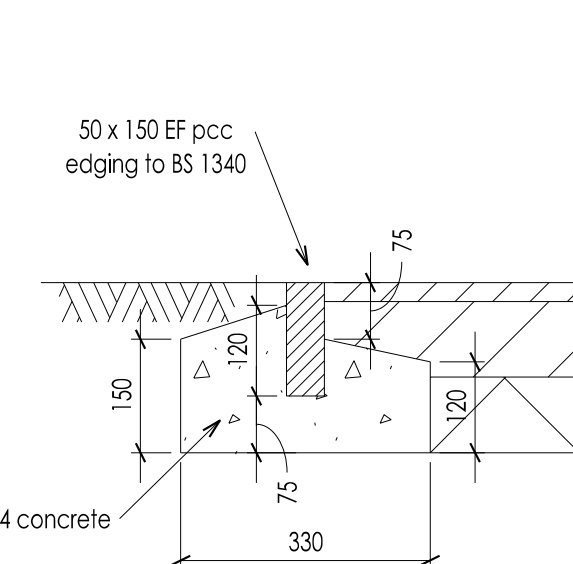
Note 5 The use of a geosynthetic with a sub-grade with this bearing capacity offers no advantage or economy.



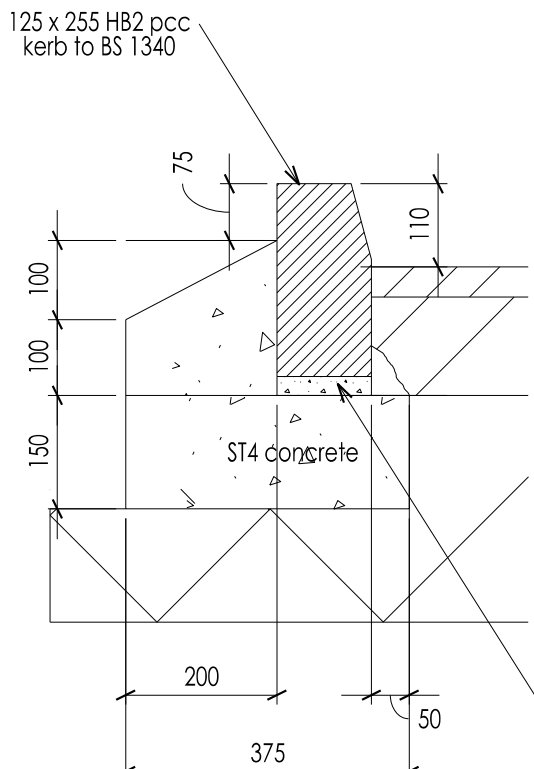
CONSTRUCTION ADJACENT EXISTING CARRIAGEWAY



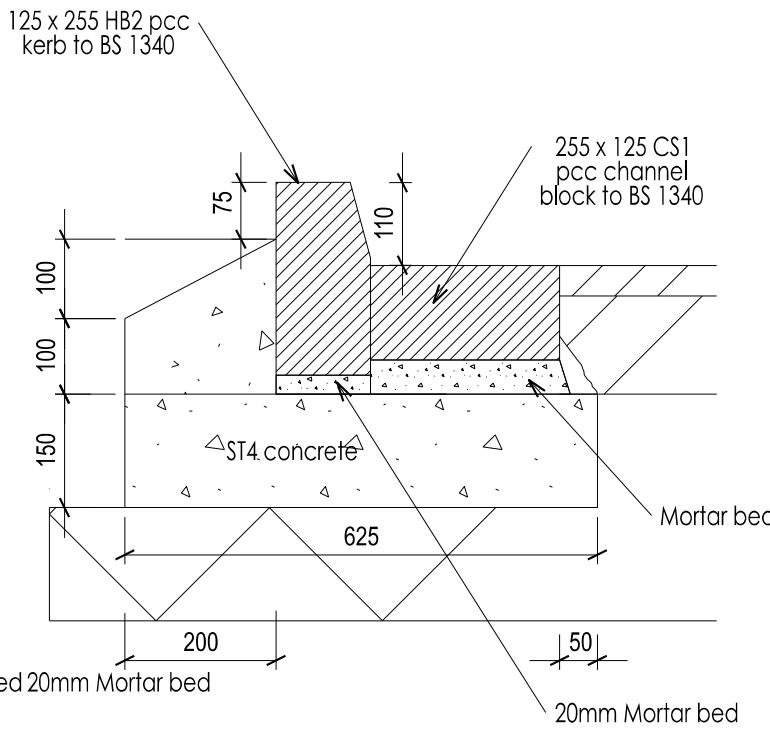
DETAIL OF KERBING AT VEHICULAR ACCESS



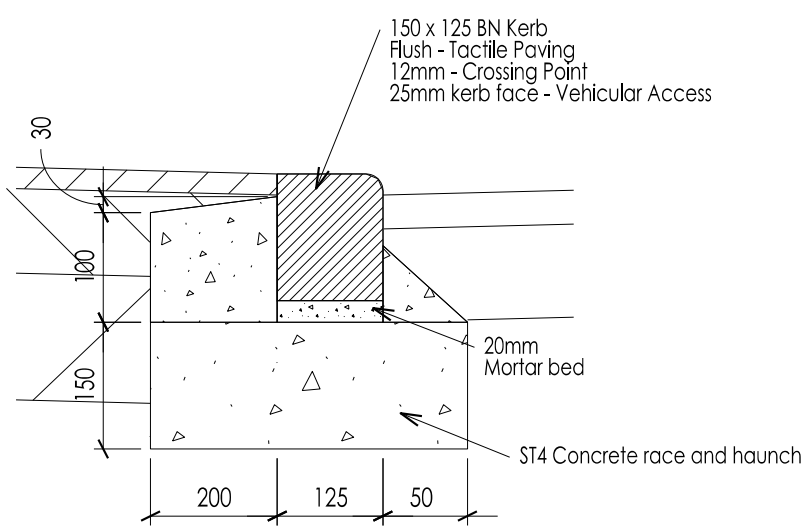
50 x 150 EF pcc edging



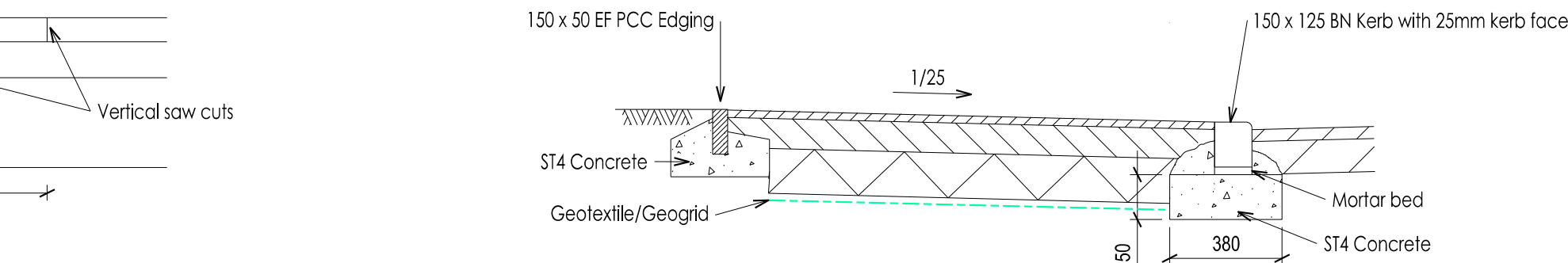
125 x 255 HB2 pcc kerb



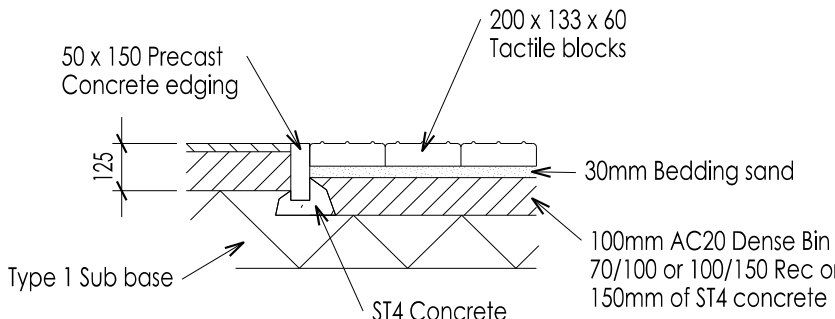
255 x 125 CS1 pcc channel block



125 x 150 BN pcc Kerb



SECTION THROUGH VEHICULAR ACCESS

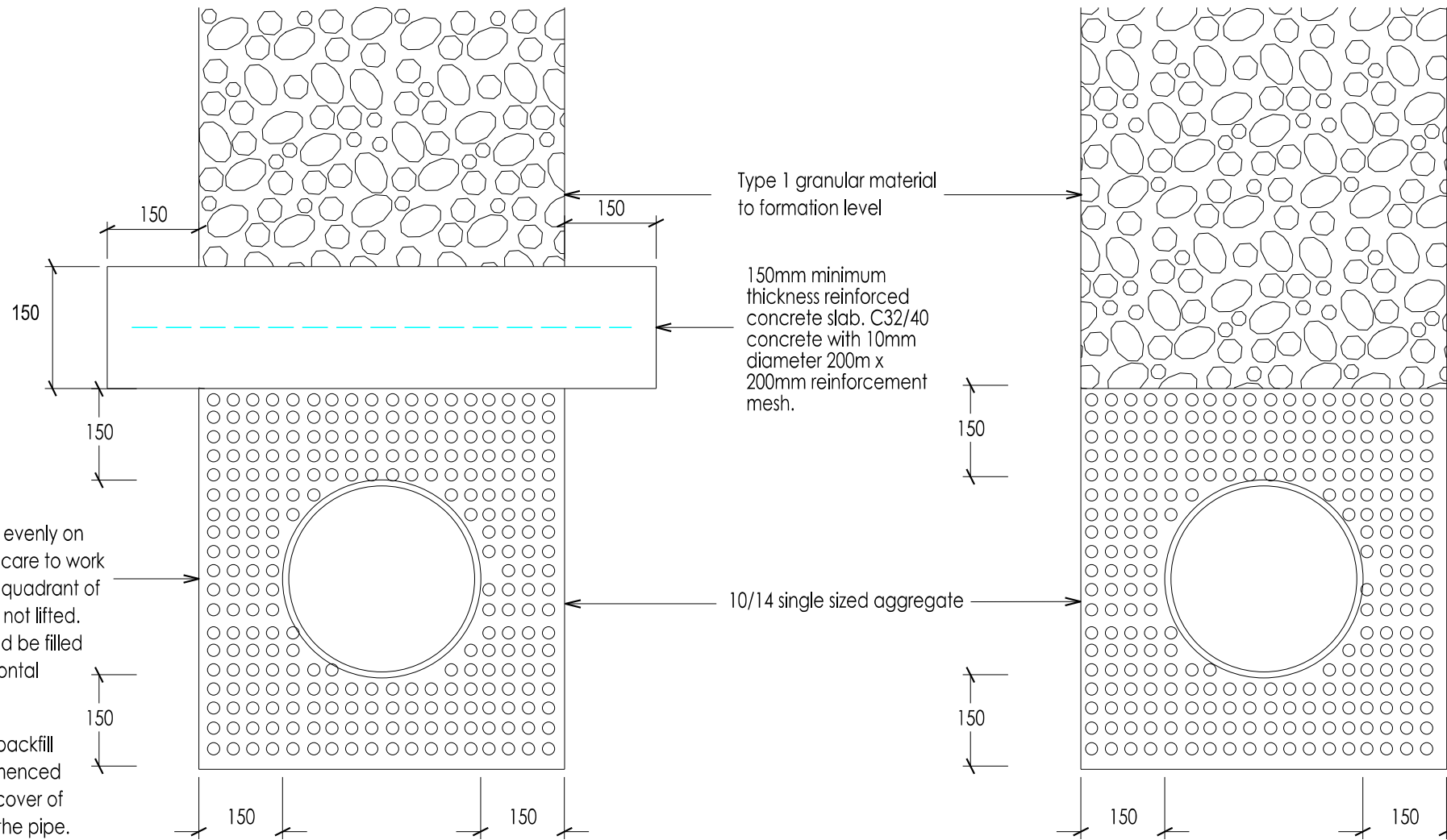


SECTION THROUGH TACTILE PAVING

Sidelfill material to be placed evenly on both sides of the pipe taking care to work the material under the lower quadrant of the pipe, ensuring the pipe is not lifted. Both sides of the trench should be filled simultaneously to avoid horizontal movement of the pipe.

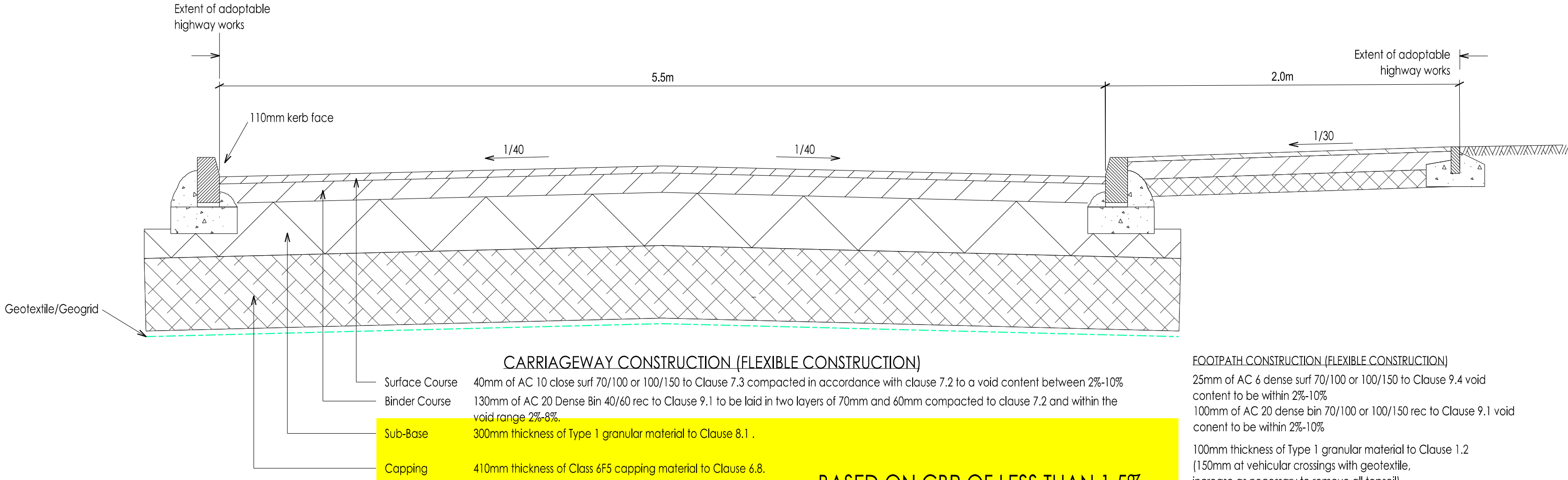
Mechanical compaction of backfill material should not be commenced until there is a total depth of cover of 300mm above the crown of the pipe.

Lincs approved supplier required for all material for backfilling of trenches.



CONCRETE SLAB PROTECTION WHERE COVER IS LESS THAN 1.2m

CLASS S GRANULAR BED AND SURROUND WHERE COVER IS GREATER THAN 1.2m



CARRIAGEWAY CONSTRUCTION (FLEXIBLE CONSTRUCTION)

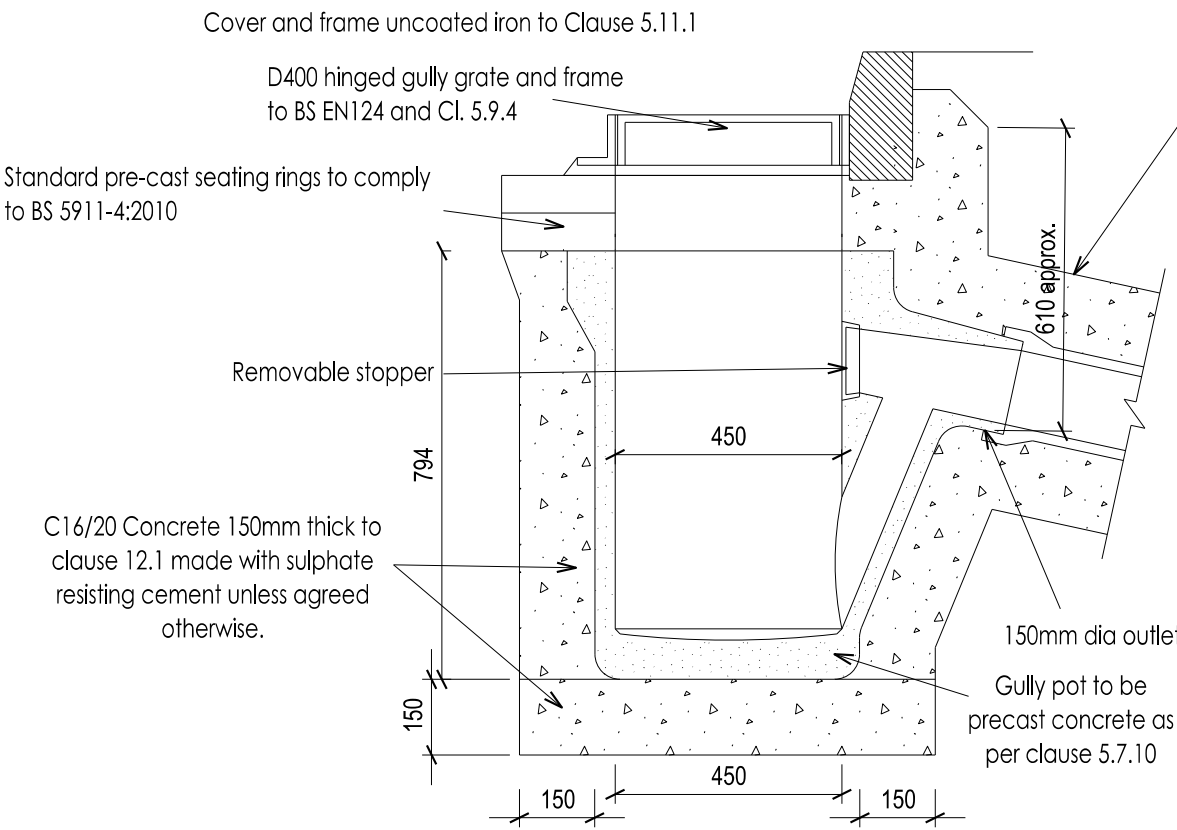
Surface Course 40mm of AC 10 close surf 70/100 or 100/150 to Clause 7.3 compacted in accordance with clause 7.2 to a void content between 2%-10%
Binder Course 130mm of AC 20 Dense Bin 40/60 rec to Clause 9.1 to be laid in two layers of 70mm and 60mm compacted to clause 7.2 and within the void range 2%-8%
Sub-Base 300mm thickness of Type 1 granular material to Clause 8.1 .
Capping 410mm thickness of Class 6F5 capping material to Clause 6.8.

Sub base and Capping construction depths to be as per Construction Chart 1.

BASED ON CBR OF LESS THAN 1.5%

FOOTPATH CONSTRUCTION (FLEXIBLE CONSTRUCTION)

25mm of AC 6 dense surf 70/100 or 100/150 to Clause 9.4 void content to be within 2%-10%
100mm of AC 20 dense bin 70/100 or 100/150 rec to Clause 9.1 void content to be within 2%-10%
100mm thickness of Type 1 granular material to Clause 1.2 (150mm at vehicular crossings with geotextile, increase as necessary to remove all topsoil)



GULLY (TYPE G5 TRAPPED)

| | | | | |
|---|-------------------------------|-----|------------|----------|
| P2 | Tactile crossing detail added | PAE | PAE | 07/09/20 |
| P1 | Initial issue | JW | PAE | 14/02/20 |
| Rev | Description | Drn | Vf'd | Date |
| As outlined in section 2.3 of the CIB Industry Guidance to Designers, insignificant risks can usually be ignored, as can risks arising from routine construction activities, unless the design compounds or significantly alters these risks. In accordance with CDM Regulations 8.9 and 11, any significant risks relating to the design features shown on this drawing have been identified and are annotated thus: | | | | |
| <input checked="" type="checkbox"/> No significant risks have been identified. | | | | |
| <input type="checkbox"/> Significant risks have been identified - refer to notes on drawing for information on residual risks and any control measures to be employed. | | | | |
| Refer to the current Designer's Risk Assessment sheets for further details. | | | | |
| Designer's Signature | | JW | Date 02/20 | |

Drawing Status
REGULATORY APPROVAL

williamsaunders
architecture: engineering: building consultancy
Sheppard Lockton House
Caffera Way
Newark-on-Trent
Nottinghamshire, NG24 2TN
Tel: 01636 704361
Fax: 01636 702809
W: wms-saunders.co.uk

Also at Leeds, Lincoln, Wirsbworth

Project
Proposed Residential Development
Land off Fenside Road,
Boston

Client
Seagate Homes

Title
S38 Construction Details

| | | | | |
|---|------------|---------|-------|------|
| WMS Project Ref. | Drawn | Date | Scale | @ A1 |
| 12079 | JW | 02/2020 | NTS | |
| Drawing/Document Reference | | | | |
| Project | Originator | Zone | Level | Type |
| 12079 | WMS | ZZ | XX | DR |
| Role | | | | |
| Number | | | | |
| Status | | | | |
| Rev. | | | | |
| 12079 - WMS - ZZ - XX - DR - C - 39502 - S8- P2 | | | | |