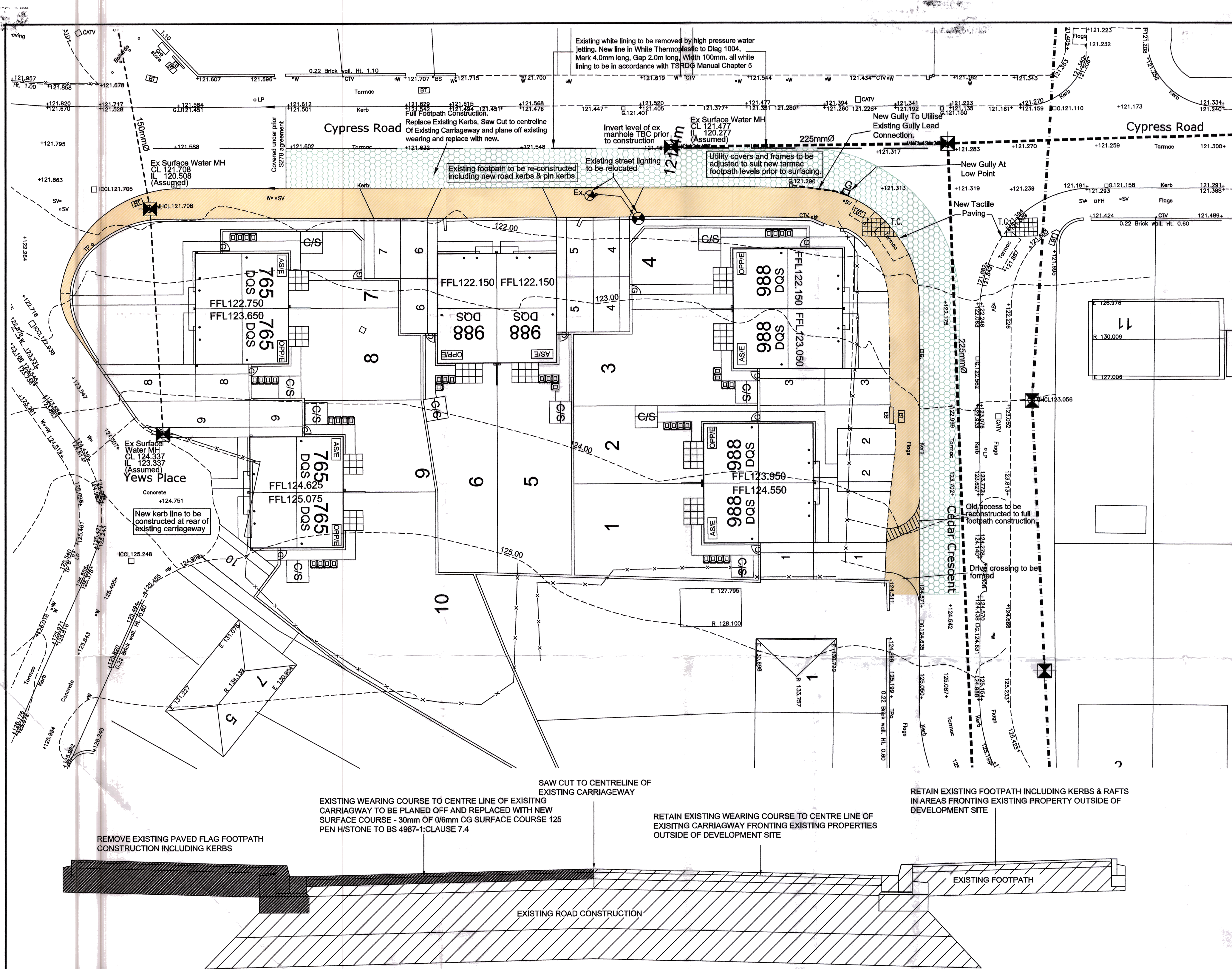
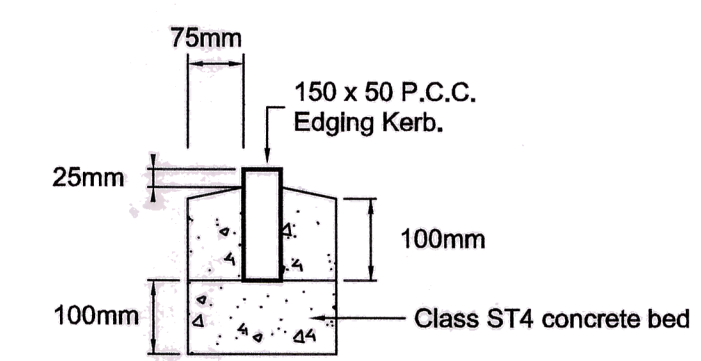


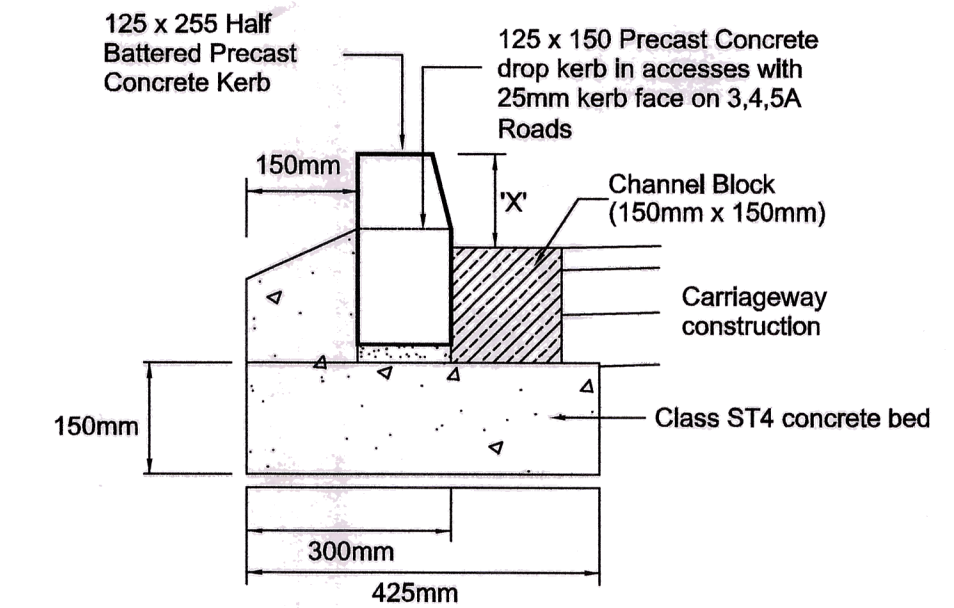


- Remove existing flags and replace with:
150mm Sub base
55mm Binder Course
25mm Surface Course
- Plane off existing wearing course and replace with new.

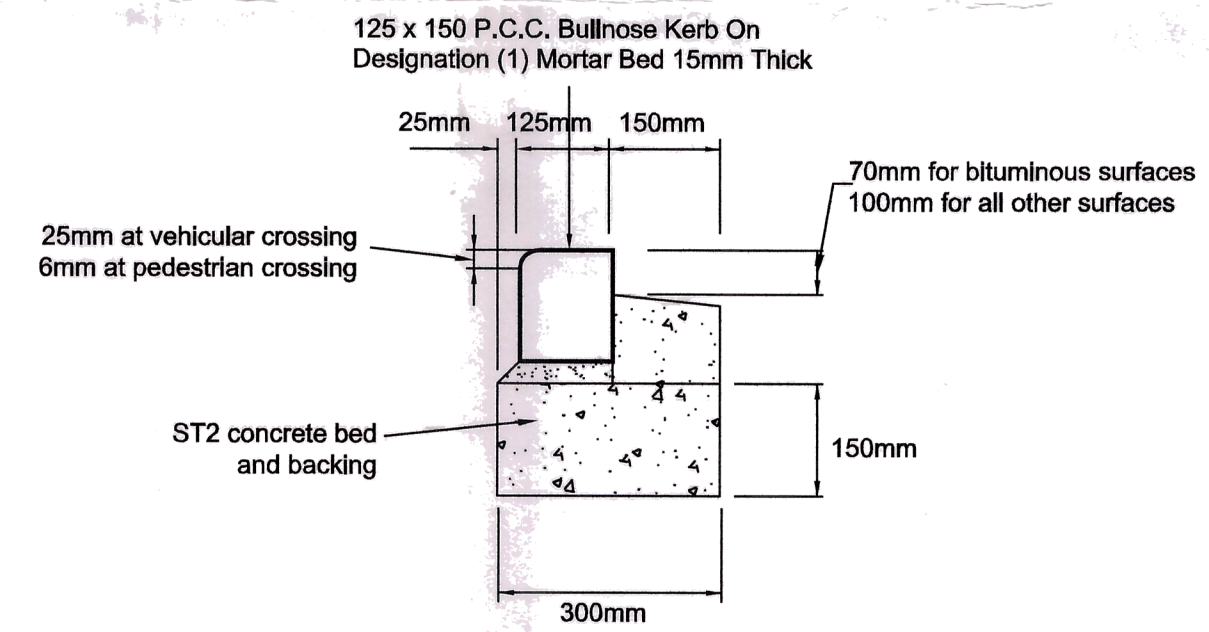
- General Notes:-
- Highways
 - All excavations below public highways to be back filled with base and well compacted in layers to 150mm.
 - Highway authority to be notified by the contractor prior to the commencement of works.
 - Adoptable Drainage
 - All adoptable sewer works and materials to be in accordance with "Sewers For Adoption 5th Edition" Yorkshire Waters Requirements and Kitemarked.
 - Manhole covers shall have a clear opening of 600mm and shall be class D400 to BS EN 124 with 150mm deep frames in highways.
 - Filled ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Waters before any sewer works are carried out.
 - Yorkshire water is not obliged to accept filter drain / land drainage runoff into the public sewer network or adoptable drainage system (directly or indirectly). An alternative method of disposal of the land drainage runoff will therefore be required and you will have to liaise with the Local Authority, Land Drainage Section with regards to the disposal of the filter drain / land drainage runoff.
 - Cover slabs must carry the BSI Kitemark or will be rejected by Yorkshire water inspector. Where the clear opening of the kitemarked product is different to that of the cover and frame, a loading bearing slab should be fitted above the cover slab to bring the size down to 600x600mm for the Yorkshire Water specified cover size. Please refer to Concrete Pipe Systems Association (CPSA) Technical Bulletin issued autumn 2004 for Kitemarked cover slab opening sizes.
 - Sulphate resistant cement (C20-DC2) and precast concrete products must be used or a laboratory report providing that such precautions are not necessary.
 - The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
 - Sewers must have 5 metres clearance from trees and hedges, where it is not possible to achieve this clearance concrete bed and surround is required.
 - Sewers laid in Class "S" Bedding (150mm granular bed and surround). Where depth of cover to top of sewer is less than 1.2m in highway (or less than 900mm in none vehicular access areas) then 150mm concrete bed and surround shall be used.
 - All adoptable sewers to be BSI Kitemark (Certified to WIS 4-3501).
 - Adoptable sewer pipes to be laid in maximum 3m lengths unless there is a specific operational need to lay longer lengths.
 - Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (Table A2).
 - Plastic channel sections in manholes are not acceptable and Yorkshire Water would prefer clayware channel in manholes, we have found that plastic channels are difficult to set in concrete because they float and a satisfactory finish cannot be obtained on the benching.
 - The chamber size of manholes with more than one connection in them may need to be increased an increment to accommodate the connections and bends.
 - Yorkshire Water policy is not to accept Type "C" brick manholes and 1050mm Ø manhole rings. Instead it is preferred that you use a Type "D" manhole with 1200mm Ø or 1500mm Ø rings, with the opening sited over the channel where depth of cover to pipe is 1 - 1.5m.
 - Please note Class C pipes and the 1350mm Ø manhole chambers are no longer manufactured as standard, the class has changed and are not kitemarked. (Concrete pipes should be Class C 120 54KN/m min).



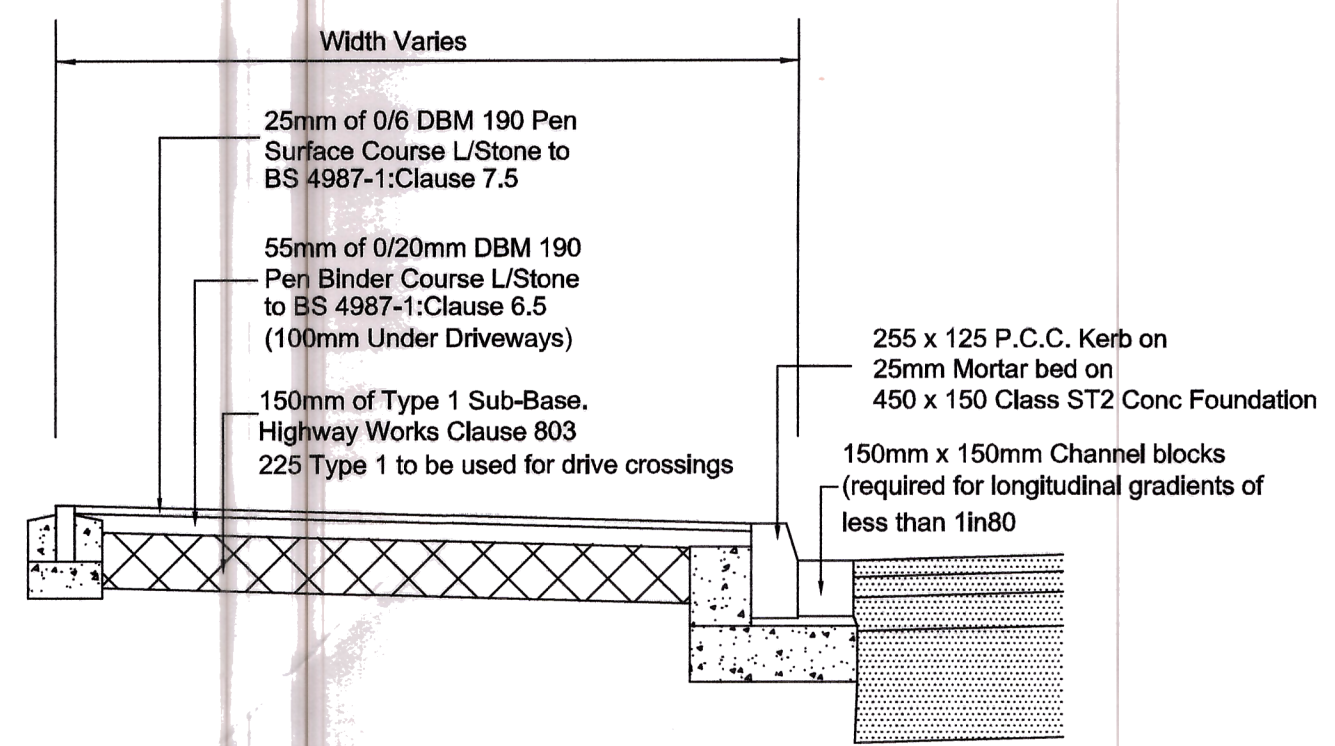
FOOTWAY EDGING
DETAIL
Scale 1:10



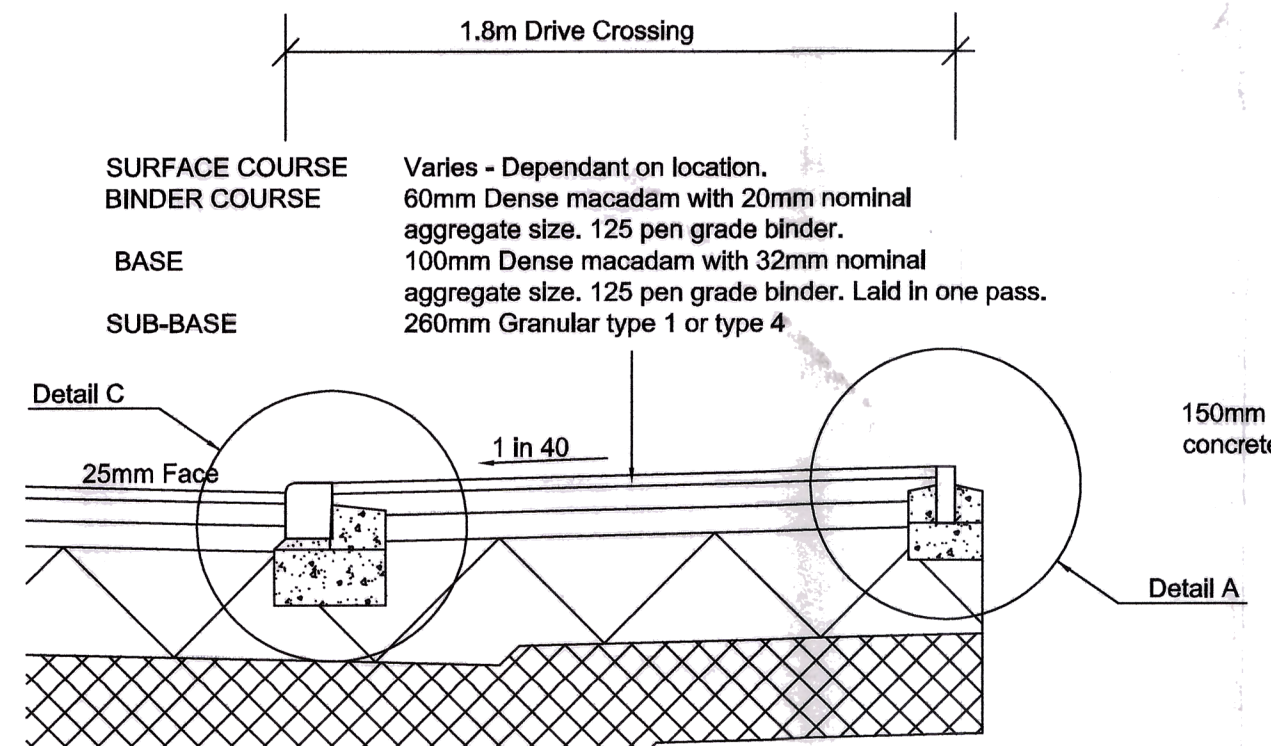
STANDARD KERB
DETAIL
Scale 1:10



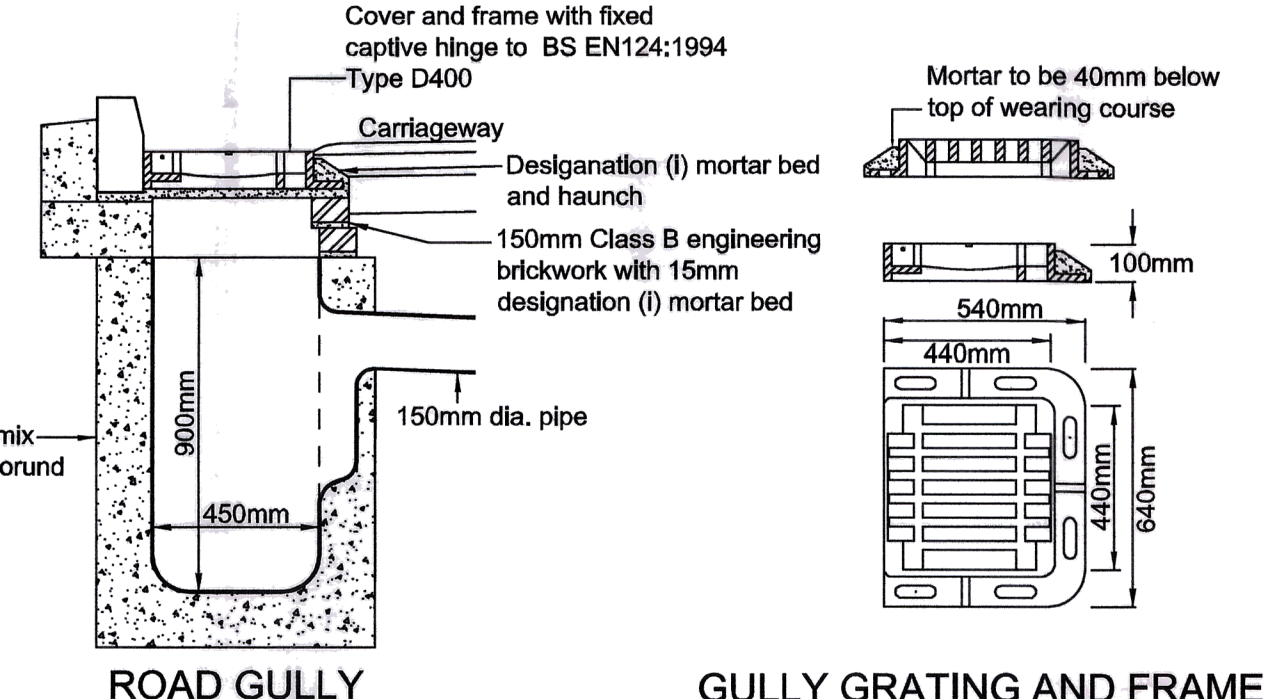
DRIVEWAY KERB
DETAIL
Scale 1:10



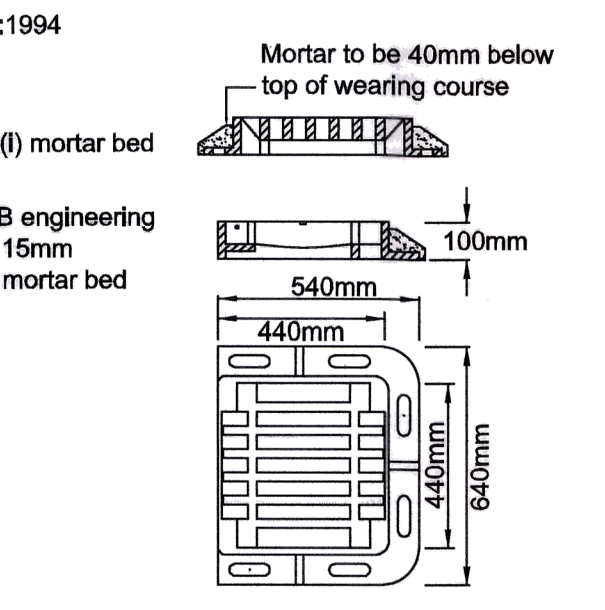
FOOTWAY RE-CONSTRUCTION
Scale 1:20



DRIVEWAY CROSSING
DETAIL



ROAD GULLY



GULLY GRATING AND FRAME
Scale 1:10

Drawing Status: **APPROVED**

Title: **Keepmoat Homes Yews Place, Kendray Barnsley Section 278 Works**

Scale: 1:200 @ A1 Date: October 2010

Drawn by: ND E-mail: rick.dunwoodie@queensberrydesign.co.uk

Drawing no.: QD353-16-01 Revision: E Client Contract no.: -

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