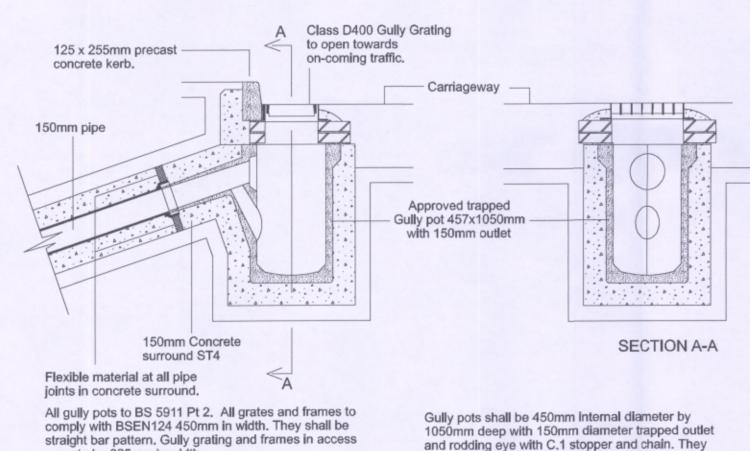


1. For use on vehicular crossovers from/ to blacktop highways.

VEHICULAR CROSSING DETAIL



straight bar pattern. Gully grating and frames in access ways to be 325mm in width.

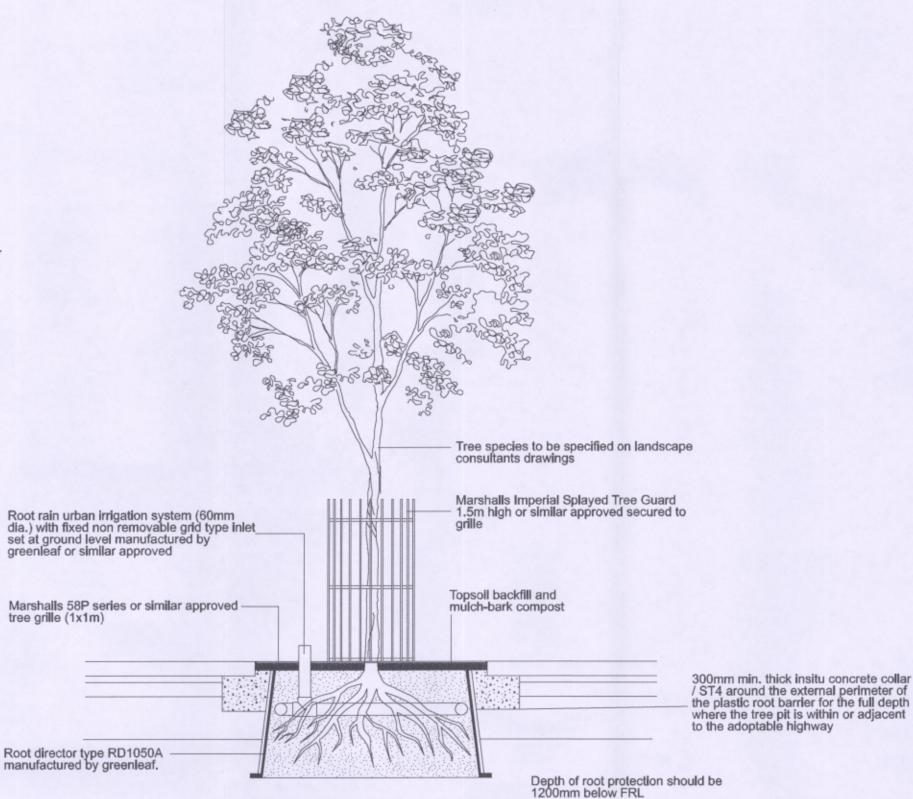
The gratings and frames shall be bedded using Designation (i) mortar and set on minimum two courses and a maximum of 4 courses of Class B engineering bricks so that the top of the frames is below the finished channel level within the tolerance of -5mm to -10mm where measured adjacent to the kerbing. The gully frames shall be set to the carrriageway gradient. Where the carriageway is constructed to the base course level for use as builders road, the gully frames should initially be set to base course level.

Class D400 gully grating and frame to open towards on-coming vehicles and be single piece, hinged, non-rock type to BS EN 124 (size 370 x 450mm) minimum waterway area 1000sqcm with straight bar pattern

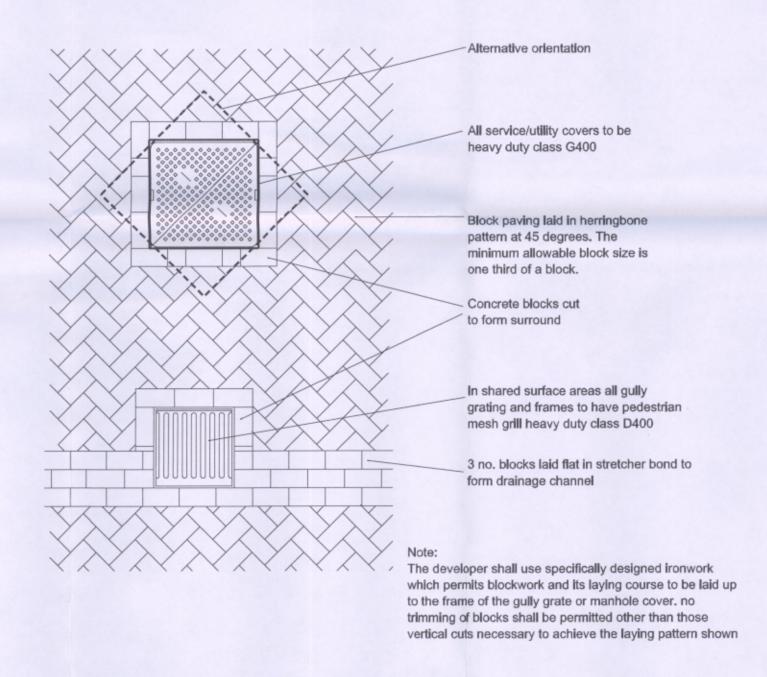
shall be of an approved manufacture in precast concrete to BS 5911, salt glazed ware or Clayware to BS 65 and shall be laid with 150mm thickness of ST4 concrete. Connections to the sewer shall be by 150mm diameter clay or concrete pipes bedded on 150mm concrete and surrounded with ST4 concrete to a thickness of 150mm when the cover to the pipes is less than 1.2m.

Gullies should preferably connect directly into manholes, but, if this is not appropriate, they shall be connected to the main pipe by means of 45 degree oblique angled junctions, and surrounded by ST4 concrete to a thickness of 150mm. Gully

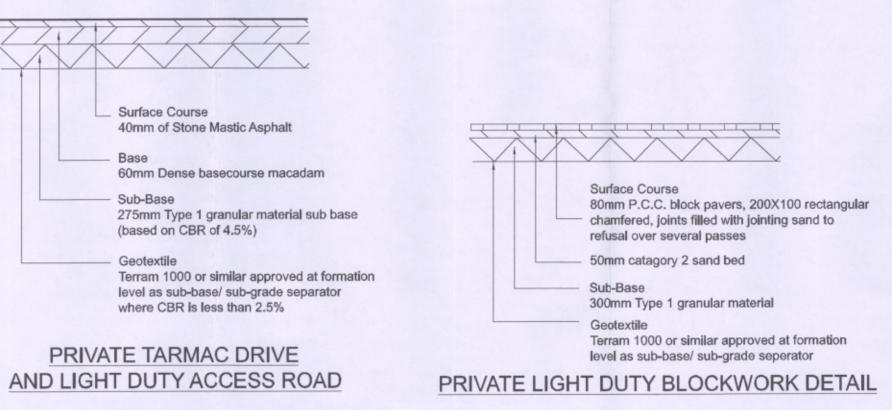
connections shall not be longer than 20m. **GULLY DETAIL**



TREE PIT DETAIL IN SHARED SURFACES



BLOCKWORK DETAILS AROUND CARRIAGEWAY IRONWORK



SAFETY HEALTH AND ENVIRONMENTAL

NOTES

1. CONTRACTORS MUST CHECK ALL DIMENSIONS ON SITE, ONLY

2. UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE

RELEVANT AUTHORITIES, ALL DRAWINGS ARE ISSUED AS

PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE

PROCEEDING. © THIS DRAWING IS COPYRIGHT.

GIVEN IT IS ENTIRELY AT HIS OWN RISK.

FIGURED DIMENSIONS ARE TO BE WORKED FROM. DISCREPANCIES

CONTRACTOR COMMENCE SITE WORK PRIOR TO APPROVAL BEING

MUST BE REPORTED TO THE ARCHITECT OR ENGINEER BEFORE

IN ADDITION TO THE HAZARDS, RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RISKS AND INFORMATION.

CONSTRUCTION:

1. AS A FORMER MILITARY BASE THERE MAY BE UNREGISTERED AND UNRECORDED UTILITIES. THE CONTRACTOR SHALL TAKE REASONABLE STEPS TO LOCATE ALL UTILITIES PRIOR TO COMMENCEMENT OF WORKS.

FOR INFORMATION RELATING TO END USE, MAINTENANCE, DEMOLITION, SEE THE HEALTH AND SAFETY FILE.

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT.

WHERE WIDTH OF THE WIDENING IS SUCH THAT A ROLLER CANNOT COMPACT USE CONCRETE ST4 AND

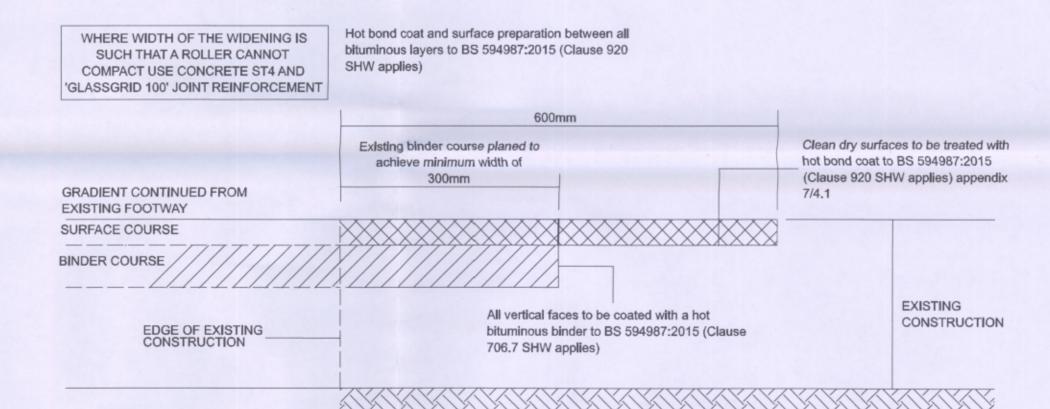
'GLASSGRID 100' JOINT REINFORCEMENT

Hot bond coat and surface preparation between all bituminous layers to BS 594987:2015 (Clause 920 SHW applies)

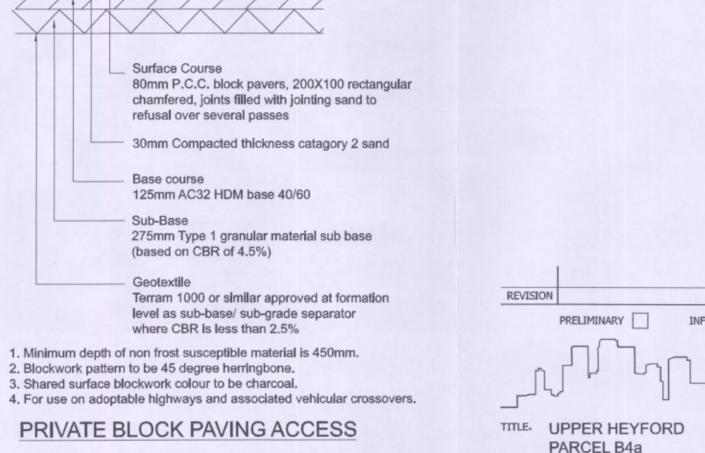
Existing base planed to Existing sub-base planed to Existing binder course planed to Existing surface course planed to achieve a minimum joint width of achieve a minimum joint width of achieve a minimum joint achieve a minimum joint width of 300mm* 300mm* width of 300mm* 300mm* Clean dry surfaces to be treated with hot bond coat to BS 594987:2015 GRADIENT CONTINUED (Clause 920 SHW applies) appendix FROM EXISTING CARRIAGEWAY SURFACE COURSE BINDER COURSE BASE EXISTING CONSTRUCTION All vertical faces to be coated with a hot bituminous binder to BS 594987;2015 (Clause SUB-BASE 706.7 SHW applies)

*Transverse carriageway joints are to have 1000mm minimum steps

CARRIAGEWAY TIE-IN



FOOTWAY TIE IN DETAIL



DRAWN DATE DESCRIPTION CHECKED INFORMATION TENDER CONSTRUCTION AS BUILT WOODS HARDWIC ARCHITECTS, ENGINEERS AND DEVELOPMENT CONSULTANTS BEDFORD, MK40 3NH T. +44 (0)1234 268862 FORT DUNLOP, FORT PARKWAY BIRMINGHAM, B24 9FE PARCEL B4a DETAILS HIGHWAY DETAILS T. +44 (0)121 6297784 MAIL@WOODSHARDWICK.COM WWW.WOODSHARDWICK.COM

SHEET 2 OF 2 SCALE: N.T.S (A1) DATE: OCTOBER 2018 DRAWN: GLG CHK: JGF HEYF-5-699 Please consider the environment before printing this drawing Filepath: F:\Engineer