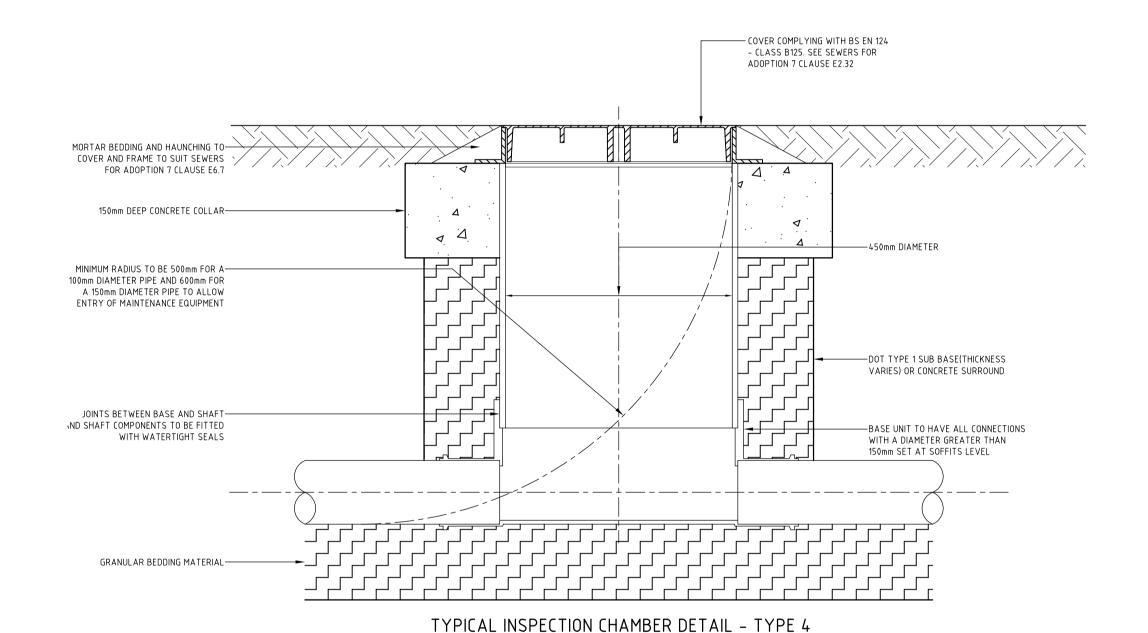


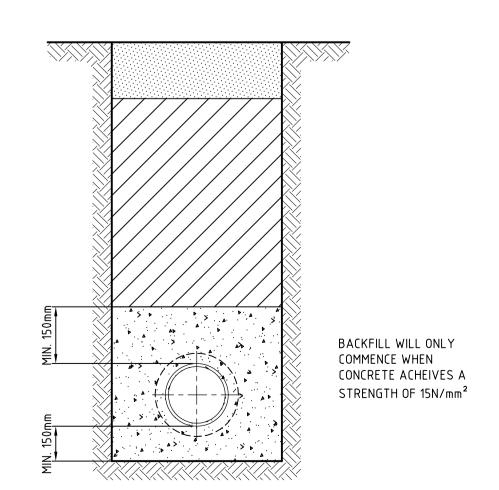
TYPICAL INSPECTION CHAMBER DETAIL - TYPE 3

Maximum depth from cover level to soffit of pipe
in areas subject to vehicle loading 3m, non-entry.

SCALE 1:25



Maximum depth from cover level to soffit of pipe 2m. SCALE 1:10

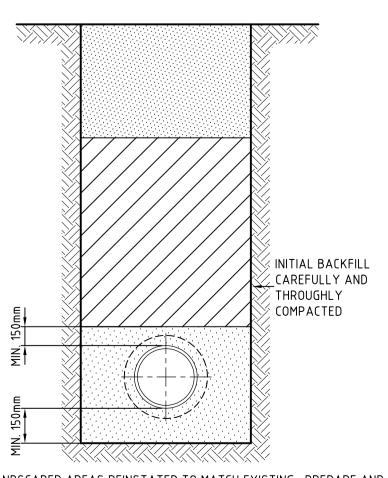


VERGE/LANDSCAPED AREAS REINSTATED TO MATCH EXISTING . PREPARE AND SEED GROUND TO BE REINSTATED AS SPECIFIED.

DRAINAGE CONSTRUCTION DETAIL

CLASS Z BEDDING-RIGID PIPE-VERGE/FOOTPATH

(FOR DEPTHS TO SOFFITS OF LESS THAN 900mm)



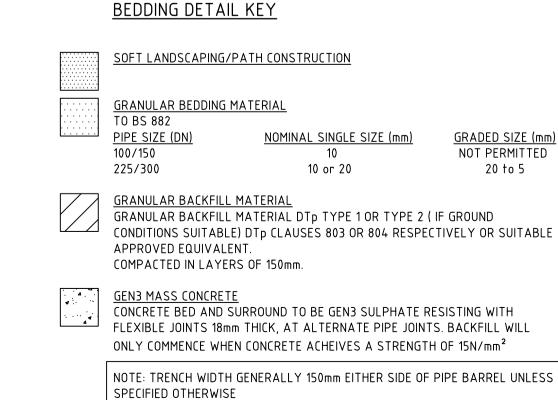
VERGE/LANDSCAPED AREAS REINSTATED TO MATCH EXISTING . PREPARE AND SEED GROUND TO BE REINSTATED AS SPECIFIED.

<u>DRAINAGE CONSTRUCTION DETAIL</u>

<u>CLASS S BEDDING - FLEXIBLE PIPE - VERGE/FOOTPATH</u>

(FOR DEPTHS TO SOFFITS GREATER THAN 900mm)

DEDDING DETAIL K



NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

CDM - RESIDUAL HAZARDS The following are considered to be significant risks

relevant to this drawing, which could not be fully mitigated or removed through design:

CDM - RESIDUAL HAZARDS

Further possible control measures have been identified within the Design Risk Assessments which may help to mitigate these and other identified risks further during the construction / maintenance

DRAINAGE NOTES:

- The system shall comply with the recommendations contained in BS EN 752. BS EN 12056 and Sewers for Adoption Edition 7.
- Drainage with less than 900mm cover will have a concrete bed and surround as detailed.
 Where required, pipework will be protected in accordance with the 'Simplified Tables of External Loads on Buried Pipelines'.
- In any circumstances where pipes are bedded and surrounded in concrete flexible joints
 should be provided. Compressible boards (fibreboard or polystyrene) shall be provided at a
 maximum of 8m centres (coinciding with pipe joints). The boards shall be pre-cut to pipe
 diameter and to a height and width equal to the concrete cross section. A board thickness or
- Where existing pipes are to be abandoned they shall be either dug out together with any
 abandoned manholes or backfilled with concrete. Covers/gratings of existing manholes,
 gullies and other chambers within new or resurfaced areas of paving are to be re-set to suit
 the new paving level on engineering brickwork and Class 1 mortar bed and haunching.

18m for pipes up to 450mm nominal diameter and 36mm for pipes over 450mm nominal

New gullies will generally be precast concrete or plastic road gullies 150mm outlet, trapped
with rodding eye to BS.5911 fitted with heavy duty cast iron gully grate and frame to BS.497:
Part 1. Connections to the existing drainage system are to be made at existing manholes or
to existing pipe runs using junction insertions or saddles as required. All new areas of paving

shall be given suitable falls to direct surface water to existing and new gullies.

- For cover dimension & type, see individual manhole schedules.
- All drainage shall be installed to true and even gradients and shall be laid in straight lines
 between each manhale.
- Where drainage is required to pass beneath sub-structural perimeter beams, the pipework shall have a minimum of a 50mm space above the pipe which shall be filled with polystyrene, if distance to pipe crown is less then 300mm.
- All connections to manholes shall be swept in the direction of the flow and no swept bend shall be greater than 100 degrees.
- All backdrops to manholes shall be formed externally to the manhole with a horizontal rodding eye taken though the wall.
- All branch connections to manholes shall be made at a level soffit with the outfall drain.
- Inlet and outlet connections to manholes on the main drain shall be at level soffit. Every drain
 connection to a manhole or inspection chamber shall be via a short length of rocker pipe to
 enable settlement to take place without damaging the pipe.
- Benching to manholes shall be trowelled to a smooth finish at a gradient of 1 in 12 to the horizontal.

first step should be no more then 675mm from cover level.

- Channel bends shall be used in all manholes.
- Manhole covers shall be installed on the upstream end of manholes, over the step irons or the access ladder and shall be flush with the internal face of the manhole wall; there shall be no overhang of the manhole cover, which obscures access onto the step irons or the ladder.
- Bends at the base of soil stacks shall be long radius.
- Rodding access should be provided on all soil stacks for maintenance, testing and removal of debris.
- All redundant manholes and pipework to be broken out/ grouted up as appropriate.
- Generally, step irons are to be included in all manholes deeper than 1m. The distance to the

Planning Applications Gro

-	onstruction Issue st Issue	20.04.17 31.03.17 Date		GAT GAT Chl
-				
C01 Co	onstruction Issue	20.04.17	OSF	GAT
C02 Typ	pe 2 Manhole Width Added	21.04.17	OSF	GAT

Client
KENT COUNTY COUNCIL

Project

LADDESFIELD SITE REDEVELOPMENT

VULCAN CLOSE

Drawing Title
VULCAN CLOSE EXTENSION
DRAINAGE CONSTRUCTION DETAILS

Cuitability St

Suitability Status

A1 - Approved and accepted as stage complete

Job No. Scale Size Rev

161562 AS INDICATED @ A1 C02

KEN003-PEV-XX-ZZ-DR-C-0900



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Project Code - Originator - Zone - Level - Type - Role - Number