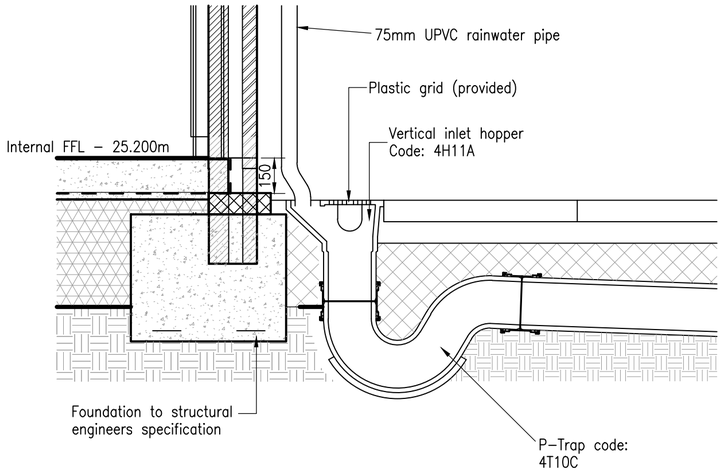
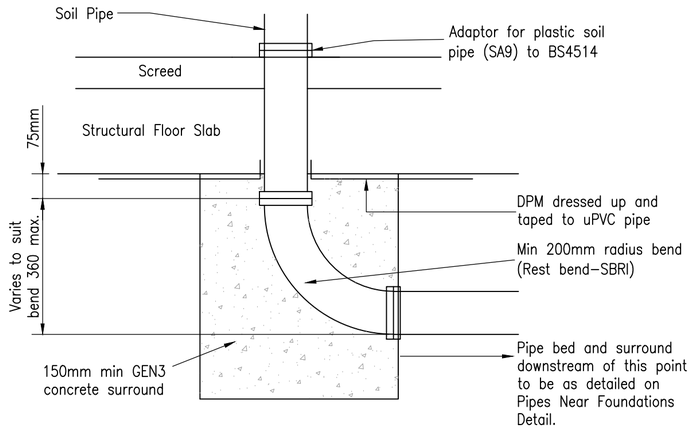
VERTICAL INLET HOPPER TRAPPED CONNECTION DETAIL



TYPICAL INTERNAL SVP CONNECTION



Do not scale from this drawing.

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARD/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.

RISKS LISTED HERE ARE NOT EXHAUSTIVE. REFER TO DESIGN ASSESSMENT FOR NO. DID/149100/02.

CONSTRUCTION
–DRAINAGE CONNECTIONS REQUIRED TO EXISTING LIVE SEWERS.
–EXISTING SERVICES.
–EXISTING SEWER.
–WORKS ADJACENT TO ROAD.

DEMOLITION
–BREAKING OUT EXISTING DRAINS & SEWERS.

FOR INFORMATION RELATING TO USE, CLEANING AND MAINTENANCE SEE THE HEALTH AND SAFETY FILE

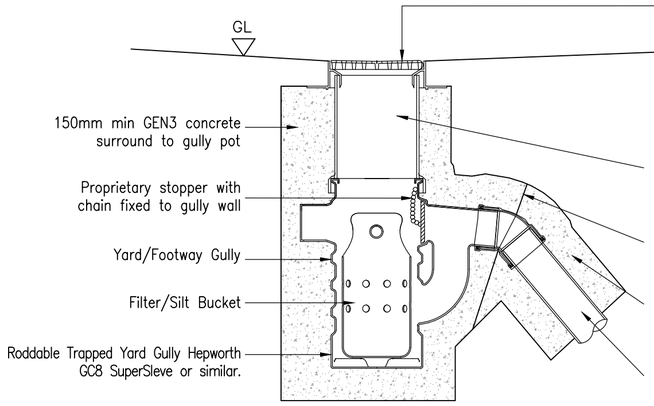
IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT.

NOTES

1. This drawing is based on the following received information:
   –JDDK TOPO/UTILITY SURVEY 2343100 REV A,
   –JDDK PROPOSED SITE PLAN 4251–JDDK–XX–XX–DR–A–1001–C1.

2. This drawing is to be read in conjunction with the following FAIRHURST drawings:
   –149100/2002 – Seton Avenue Proposed Drainage Layout,
   –149100/2003 – Seton Avenue Drainage Construction Details Sheet 1,
   –149100/2005 – Seton Avenue Proposed Spot Levels,
   –149100/2007 – Seton Avenue Drainage Construction Details Sheet 2,
   –149100/2008 – Seton Avenue Drainage Construction Details Sheet 3,
   –149100/2010 – Seton Avenue Proposed Drainage Notes,
   –149100/2011 – Seton Avenue Manhole Schedule,
   –149100/2012 – Seton Avenue Proposed Surface Finishes,
   –149100/2013 – Seton Avenue External Works Construction Details Sheet 1.

FOOTPATH/YARD GULLY DETAIL



Hinged Grating to BS EN 124

- Light duty (pedestrian traffic only) Class B 125
- Medium duty (lightly trafficked) Class C 250

Raising piece fitted between the frame and the gully body.

12mm thick compressible board or preformed joint filler.

150mm GEN3 concrete bed and surround until 1.2m cover available to top of pipe

150mm dia. gully connection

Table A.1 **Sub-base grading**

Sieve size	Percentage passing	
mm	Coarse aggregate, 4/40	Coarse aggregate, 4/20
80	100	—
63	98–100	—
40	90–99	100
31.5	—	98–100
20	25–70	90–99
10	—	25–70
4	0–15	0–15
2	0–5	0–5
1	—	—

NOTE The gradings for 4/20 are typical and advice should be sought from the block manufacturer on specific gradings suitable for their product/system.

Table A.2 **Laying course and jointing material grading**

BS sieve size (BS EN 993-1)	Percentage passing
mm	
14	100
10	98–100
6.3	80–99
2.0	0–20
1.0	0–5

NOTE These gradings are typical, advice should be sought from the block manufacturer on specific gradings suitable for their product/system.

DETAIL 6 – POROUS ASPHALT DETAILS

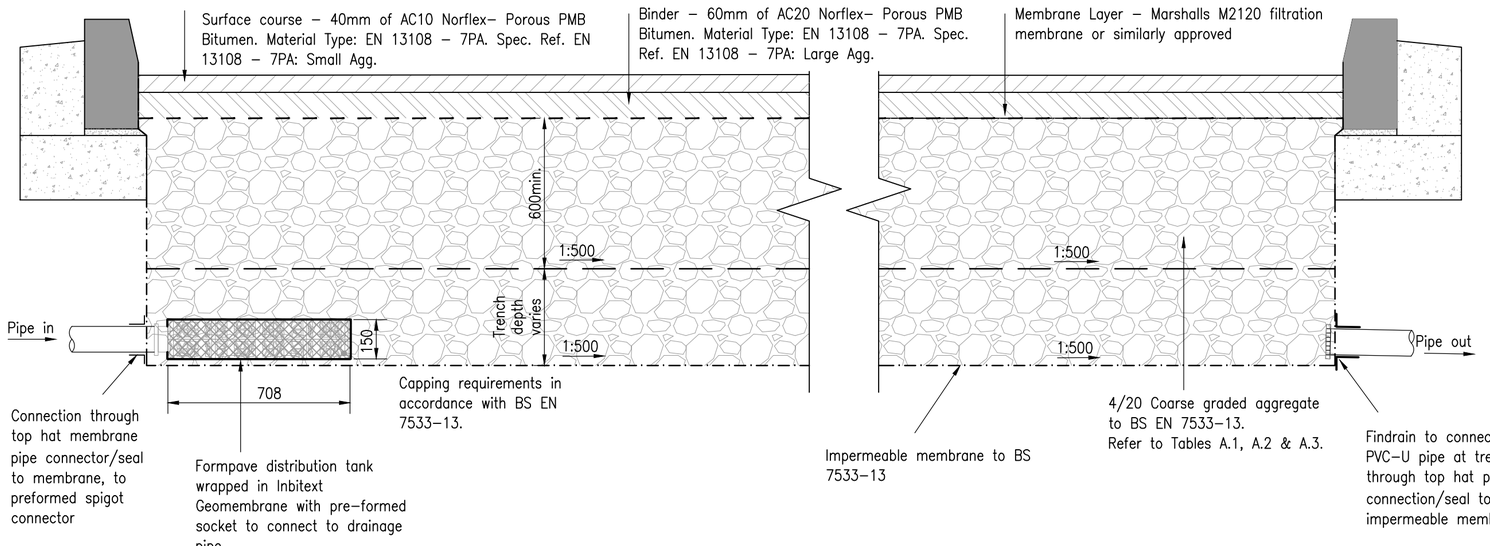


Table A.3 **Physical property recommendation for CGA**

Properties	Category to BS EN 13242 or BS 12620
Grading	4/20 (preferred) or 4/40, G_C 85–15, GT_C 20/17.5
Fines content	f_4
Shape	FI_{20}
Resistance to fragmentation	LA_{30}
Durability: – Water absorption to BS EN 1097-6:2000 +A1:2005, Clause **7** – for *WA*$_{24}$ > 2% – Magnesium sulfate soundness	$WA_{24}2$ MS_{18}
Resistance to wear	$M_{DE}20$
Acid-soluble sulfate content: – aggregates other than air-cooled blast-furnace slag and – air-cooled blast-furnace slag	$AS_{0.2}$ $AS_{1.0}$
Total sulfur: – aggregates other than air-cooled blast-furnace slag – air-cooled blast-furnace slag	⩽1% by mass ⩽2% by mass
Volume stability of blast-furnace and steel slags: air-cooled blast-furnace slag – steel slag	Free from dicalcium silicate and iron disintegration in accordance with BS EN 13242:2002+A1:2007, **6.4.2.2.** V_S
Leaching of contaminants	Blast-furnace slag and other recycled materials should meet the requirements of the Environment Agency "Waste Acceptance Criteria"[A] for inert waste when tested in accordance with BS EN 12457-3.

[A] Guidance on waste acceptance criteria for inert waste is given in the Environment Agency's *Guidance for waste destined for disposal in landfills* [2].

Rev.	Date	Description	Drwn.	Chkd.	Appd.
D	20/07/23	ISSUED FOR CONSTRUCTION	FM	AS	JMM
C	20/04/23	REVISED TO SUIT NEW LAYOUT 4251–JDDK–XX–XX–DR–A–1001–P5	FM	HB	JMM
B	18/01/23	REF TO SURFACE FINISHES AND DETAILS DRAWINGS ADDED POROUS ASPHALT ADDED	CP	AS/HB	JMM
A	09/12/22	ISSUED FOR TENDER	CP	RH	JMM

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Client: South Tyneside Council

Project Title:
STC CHILDREN'S HOMES

Drawing Title:
SETON AVENUE
DRAINAGE CONSTRUCTION
DETAILS SHEET 4

Scale at A2:	Status:	
NTS	Construction	
Drawn:	Checked:	Approved:
KHS	RH	DF
Date:	Date:	Date:
15/09/22	15/09/22	15/09/22

Drawing No.: 149100/2009 Revision: D