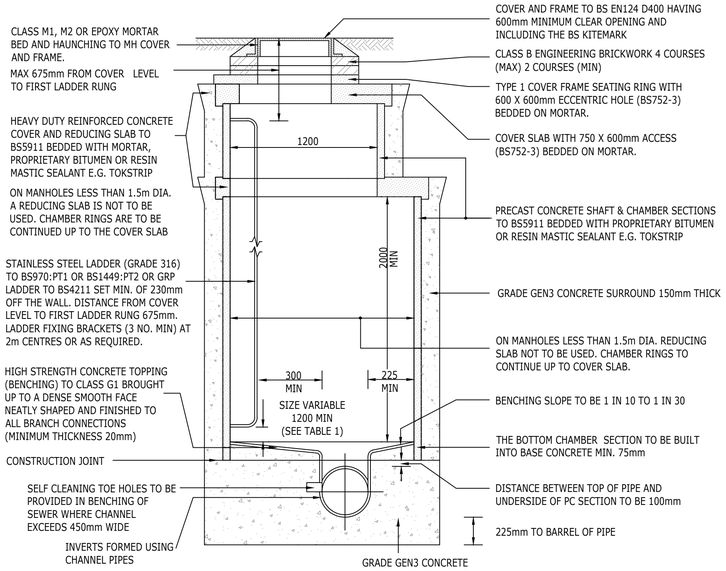
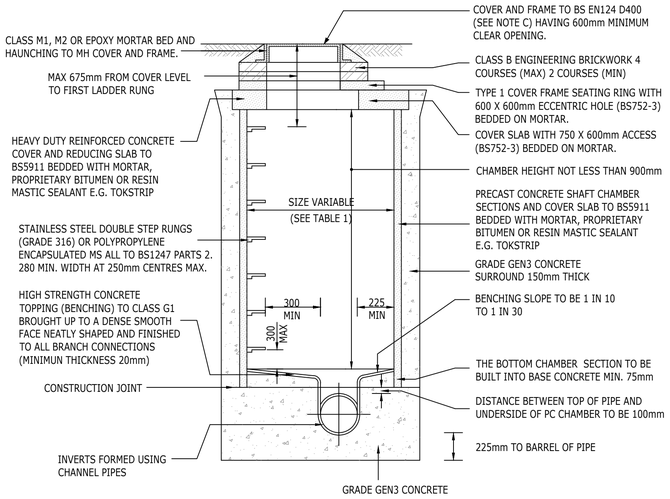




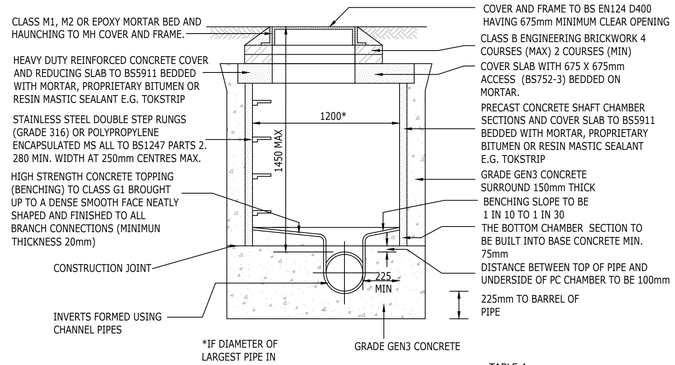
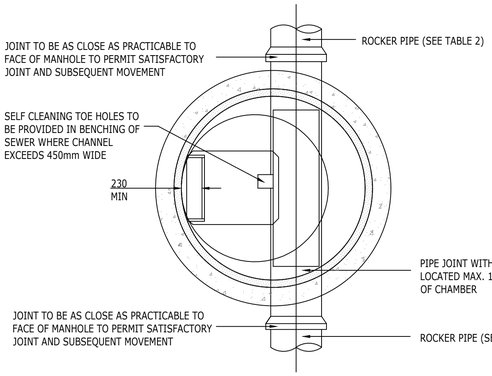


TABLE 4

TRENCH WIDTHS	
PIPE DIA. (mm)	TRENCH WIDTH MAX. (mm)
150-300	600
375-450	750
525-675	975

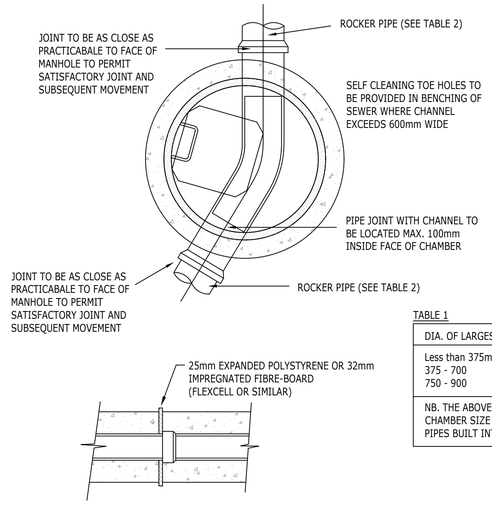


TYPICAL MANHOLE DETAIL- TYPE A

DEPTH TO SOFFIT 3 TO 6M
(1:25)

NOTE:
CHAMBERS WITH OUTGOING PIPES 600mm DIA. & ABOVE SHALL BE FITTED STAINLESS STEEL SAFETY CHAINS, DETACHABLE AT ONE END FITTED ACROSS THE OUTLET OF EACH MANHOLE. REFER TO AW SPECIFICATION

NOTE:
ALL MANHOLES ARE TO BE BUILT USING SULPHATE RESISTING CEMENT TO PREVENT DAMAGE DUE TO SEPTICITY TO COMPLY WITH BRE DIGEST 363, CLASS 4.



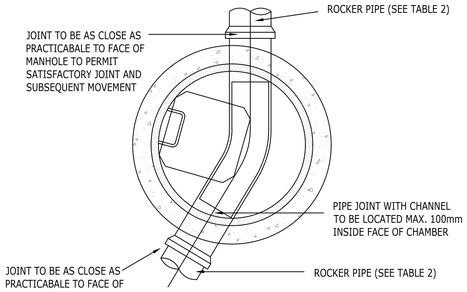
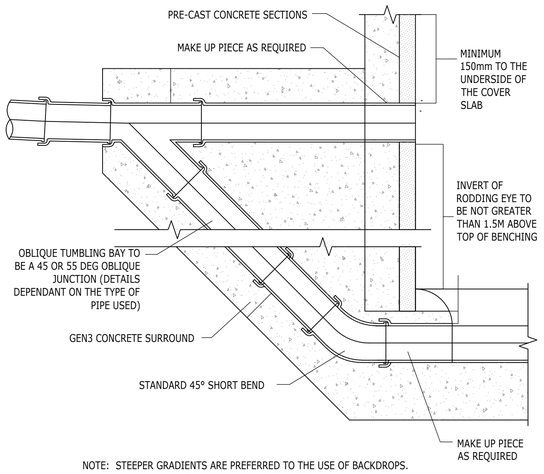


TABLE 3
TYPE A MATERIAL

GRANULAR BEDDING AND SIDEFILL MATERIALS FOR FLEXIBLE PIPES	
PIPE DIA. (mm)	GRADING
150	10 OR 14 SINGLE SIZE OR 14 TO 5mm GRADED
225 300	10, 14 OR 20mm SINGLE SIZE OR 14 TO 5mm GRADED OR 20 TO 5mm GRADED
375 450 525	14 OR 20mm SINGLE SIZE OR 14 TO 5mm GRADED OR 20 TO 5mm GRADED
GREATER THAN 600	14, 20 OR 40mm SINGLE SIZE OR 14 TO 5mm GRADED OR 20 TO 5mm GRADED OR 40 TO 5mm GRADED

TYPICAL BACKDROP DETAIL

NOTE: STEEPER GRADIENTS ARE PREFERRED TO THE USE OF BACKDROPS. A BACKDROP RODDING EYE IS NOT PERMITTED WITHIN THE ACCESS SHAFT.



NOTE: STEEPER GRADIENTS ARE PREFERRED TO THE USE OF BACKDROPS.
A BACKDROP RODDING EYE IS NOT PERMITTED WITHIN THE ACCESS SHAFT.

TYPICAL BACKDROP DETAIL
(1:25)

FLEXIBLE JOINT IN CONCRETE BED AND SURROUND.

TABLE 1

DIA. OF LARGEST PIPE IN MANHOLE.	CHAMBER SECTION DIAMETER.
Less than 375mm 375 - 700 750 - 900	1200 1500 1800
NB. THE ABOVE SIZES ARE MINIMUMS. IF TWO PIPES ENTER THE MANHOLE, THE CHAMBER SIZE MUST BE SUFFICIENT TO ACCOMMODATE ADEQUATE BENCHING. ALL PIPES BUILT INTO THE MANHOLE INVERT SHOULD BE INSTALLED WITH SOFFITS LEVEL.	

TABLE 2

PIPE DIA.	ROCKER PIPE LENGTH
150-600	0.60M
675-750	1.00M
825 AND OVER	1.25M

TYPICAL MANHOLE DETAIL- TYPE B

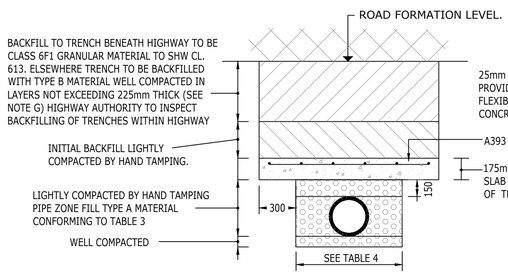
MAX. DEPTH TO SOFFIT 3M
(1:25)

TYPICAL MANHOLE DETAIL- TYPE E

MAX. DEPTH TO SOFFIT 1.45m
(1:25)

NOTE:
CHAMBERS WITH OUTGOING PIPES 600mm DIA. & ABOVE SHALL BE FITTED STAINLESS STEEL SAFETY CHAINS, DETACHABLE AT ONE END FITTED ACROSS THE OUTLET OF EACH MANHOLE. REFER TO AW SPECIFICATION

NOTE:
ALL MANHOLES ARE TO BE BUILT USING SULPHATE RESISTING CEMENT TO PREVENT DAMAGE DUE TO SEPTICITY TO COMPLY WITH BRE DIGEST 363, CLASS 4.

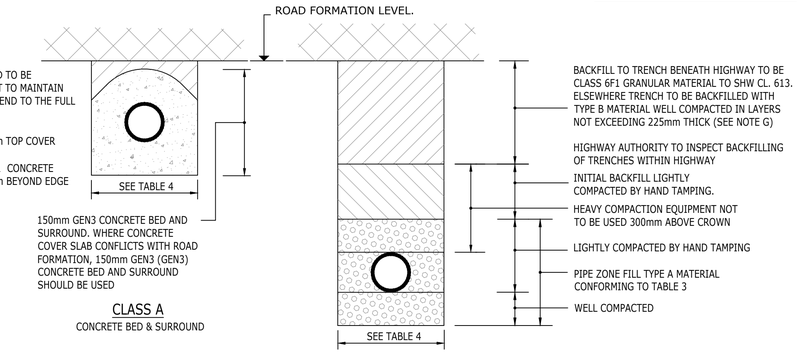


150mm GRANULAR BED BED AND SURROUND.
WHERE COVER TO CROWN OF PIPE IS LESS THAN 1.2m.

CLASS S
GRANULAR BED & SURROUND WITH CONCRETE COVER SLAB

SOFT LANDSCAPE AREAS

CONCRETE PROTECTION TO BE PROVIDE WHERE COVER TO THE CROWN OF PIPE IS LESS THAN 0.9M.



CLASS A
CONCRETE BED & SURROUND

150mm GRANULAR BED BED AND SURROUND.

WHERE COVER TO CROWN OF PIPE IS GREATER THAN 1.2m.

CLASS S
GRANULAR BED & SURROUND

PIPE BEDDING & BACKFILL IN HIGHWAYS DETAIL
(1:25)

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT SPECIFICATION, INC. RISK ASSESSMENTS (SEE CDM NOTES) AND ALL OTHER RELATED DRAWINGS ISSUED BY THE ENGINEER.
2. DO NOT SCALE FROM THIS DRAWING. WORK FROM FIGURED DIMENSIONS ONLY.
3. ALL DIMENSIONS SHOWN ON THIS DRAWING ARE IN METRES UNLESS OTHERWISE STATED.
4. ALL DIMENSIONS, LEVELS AND SURVEY GRID CO-ORDINATES ARE TO BE CHECKED ON SITE AND THE ENGINEER NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF THE WORKS.
5. NO DEVIATION FROM THE DETAILS SHOWN ON THIS DRAWING IS PERMITTED WITHOUT PRIOR PERMISSION FROM THE ENGINEER.
6. ANY WORKS OUTSIDE RED SITE BOUNDARY ARE FOR INFORMATION PURPOSES ONLY. UNLESS SPECIFICALLY NOTED, ALL WORKS OUTSIDE THE SITE BOUNDARY WILL BE UNDERTAKEN BY OTHERS UNDER A SEPARATE CONTRACT.
7. COVER AND FRAMES TO MANHOLES/INSPECTION CHAMBERS TO COMPLY WITH BS EN124.
8. BACKFILL SHOULD BE PLACED IN LAYERS NOT EXCEEDING 300mm (UNCOMPACTED THICKNESS), EACH LAYER BEING WELL COMPACTED. MECHANICAL COMPACTION EQUIPMENT SHOULD NOT BE USED UNTIL THERE IS A MINIMUM OF 450mm OF COMPACTED MATERIAL ABOVE THE CROWN OF THE PIPE.
9. ALL DRAIN CONNECTIONS BENEATH THE HIGHWAY ARE TO BE 150mmØ AND HAVE MINIMUM 100mm CONCRETE BED AND SURROUND, WHERE COVER IS LESS THAN 1.2m.
10. ALL SEWERS ARE TO BE DESIGNED TO SEWERS FOR ADOPTION 6TH EDITION AND SOUTHERN WATER REQUIREMENTS.
11. ALL HIGHWAY DRAINS AND GULLIES ARE TO BE CONSTRUCTED TO HAMPSHIRE COUNTY COUNCIL REQUIREMENTS

CDM NOTES:

1. THE ATTENTION OF THE CLIENT AND THE PRINCIPAL CONTRACTOR IS DRAWN TO THE FOLLOWING POTENTIAL RISKS IN CONJUNCTION WITH THE PROPOSED ON-SITE AND OFF-SITE WORKS AS DESIGNED FOR THIS PROJECT.
2. WORKS IN THE VICINITY OF LIVE SERVICES INCLUDING GAS, ELECTRICITY AND BT WILL BE NECESSARY AND THE ADVICE OF ALL STATUTORY SERVICE COMPANIES MUST BE SOUGHT BEFORE ANY WORKS COMMENCE.
3. WORKS WITHIN AND ABUTTING THE EXISTING HIGHWAY WILL ENTAIL TRAFFIC HAZARDS AND ALL APPROPRIATE SAFETY MEASURES INCLUDING BARRIERS, SIGNS AND LIGHTING MUST BE UNDERTAKEN TO THE APPROVAL OF THE LOCAL AUTHORITY, THE HIGHWAY AUTHORITY AND THE POLICE DEPARTMENT.
4. HAZARDOUS MATERIALS INCLUDING CEMENT AND BITUMINOUS MATERIALS ARE SPECIFIED AND THE MANUFACTURERS ADVICE ON SAFE HANDLING PROCEDURES MUST BE OBTAINED AND MADE CLEAR TO ALL OPERATIVES.
5. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES WITHIN THE VICINITY OF THE WORKS HAND DUG AND ENSURE THESE ARE PROTECTED THROUGHOUT THE DURATION OF THE WORKS. ALL UTILITY PLANT SHOULD BE CLEARLY MARKED ON THE GROUND PRIOR TO COMMENCEMENT OF THE WORKS.
6. THE CONTRACTOR MUST ENSURE ALL WORKING AREAS ARE FULLY SECURE.

SUBJECT TO FINAL COORDINATION AND TECHNICAL APPROVALS

CONSTRUCTION ISSUE

Rev	Description	Drn	Chk	App	Date
C1	CONSTRUCTION ISSUE	DAM	DW3P	DM	07.08.20

ARDENT CONSULTING ENGINEERS
Third Floor
The Hallmark Building
52-56 Leadenhall Street
London
EC3M 5JE
Tel: 020 7680 4088
Web: www.ardent-ce.co.uk
E-mail: enquiries@ardent-ce.co.uk

Client
LINDEN HOMES SOUTH

Project Title:
HAWLEY PARK FARM
HAWLEY ROAD

Drawing Title:
ADOPTABLE DRAINAGE CONSTRUCTION DETAILS

A1 Scale	Date	Designed by
AS SHOWN	JULY 2020	DAM
Drawn by	Checked by	Approved by
DAM	DP	DM

Drawing Number: 192931-055
Rev: C1