

Manhole Ref	Cover Level (m)	Invert Level (m)	Depth (m)	Type/Size	Cover & Frame	
					Opening Size	Reference
F1	49.70	48.70	1.00	450 Ø PPIC	450 x 450	MHC-8023/AA
F3	49.70	48.60	1.10	450 Ø PPIC	450 x 450	MHC-8023/AA
F4	49.70	48.40	1.30	450 Ø PPIC	450 x 450	MHC-8023/AA
F5	49.85	48.00	1.85	450 Ø PPIC	450 x 450	MHC-8023/AA
F6	49.85	47.90	1.95	450 Ø PPIC	450 x 450	MHC-8023/AA
F7	49.70	48.40	1.30	450 Ø PPIC	450 x 450	MHC-8023/AA
F8	49.70	48.30	1.40	450 Ø PPIC	450 x 450	MHC-8023/AA
F9	49.70	48.70	1.00	450 Ø PPIC	450 x 450	MHC-8023/AA
F10	49.70	48.60	1.20	450 Ø PPIC	450 x 450	MHC-8023/AA
F11	49.70	47.40	2.30	1200 x 750 Concrete IC	600 x 600	MHC-8025/AA
F12	49.85	48.65	1.20	450 Ø PPIC	450 x 450	MHC-7123/DS/L
F13	49.70	48.80	0.90	450 Ø PPIC	450 x 450	MHC-8023/AA
F14	49.70	Existing Manhole			600 x 600	MHC-7125/DS/L
F15	49.70	Existing Manhole			600 x 600	MHC-7125/DS/L
IC 1	49.70	49.10	0.60	225 Ø IC	300 x 300	MHC-8022/AA
IC 2	49.70	49.10	0.60	225 Ø IC	300 x 300	MHC-8022/AA
IC 3	49.70	49.10	0.60	225 Ø IC	300 x 300	MHC-8022/AA
IC 4	49.70	49.10	0.60	225 Ø IC	300 x 300	MHC-8022/AA
IC 5	49.70	49.10	0.60	225 Ø IC	300 x 300	MHC-8022/AA
IC 6	49.70	49.10	0.60	225 Ø IC	300 x 300	MHC-8022/AA
IC 7	49.70	49.10	0.60	225 Ø IC	300 x 300	MHC-8022/AA
Grease Trap	49.70	48.80	0.90	Refer to detail		

Manhole Ref	Cover Level (m)	Invert Level (m)	Depth (m)	Type/Size	Cover & Frame	
					Opening Size	Reference
S1	49.85	48.65	1.20	PPIC	450 x 450	MHC-8023/AA
S2	49.85	48.30	1.55	PPIC	450 x 450	MHC-8023/AA
S3	49.70	47.80	1.90	1200 x 750 Concrete IC	600 x 600	MHC-8025/AA
S4	49.70	48.65	1.05	PPIC	450 x 450	MHC-8023/AA
S5	49.70	48.95	0.75	PPIC	450 x 450	MHC-8023/AA
S6	49.70	45.40 (approx)	4.30 (approx)	TYPE A 1800mm Ø	600 x 600	MHC-8025/AA

- * Refer to Note 13
Recessed cover
- Key**
- ss Stub Stack
 - fs Floor socket
 - svp Soil and Vent Pipe
 - rwp Rainwater pipe
 - rwp+b Rainwater pipe and water butt (with overflow to gully)
 - g Gully
 - BD - 48.65 Back Drop connection (invert level indicated)
 - Surface Water Drainage
 - Foul Drainage
 - Polypropylene Inspection Chamber (PPIC) - Foul/SW
 - Manhole - Foul

notes

- Invert levels and positions of existing drains / chambers / sewers where new connections are to be made must be checked and confirmed to the engineer prior to the commencement of any works.
 - All drainage works shall be carried out in accordance with the requirements of the Local Authority and in conjunction with all relevant British Standards, Codes of Practice and 'Sewers for Adoption' 6th Edition and any addendums as appropriate.
 - All drainage shall comply with the typical details and the requirements of BSEN 752.
 - Any part of the existing drainage system to be retained as part of the new scheme shall be cleaned and inspected. Any structural defects shall be repaired using appropriate and approved means.
 - Refer to manhole schedules or drawings for manhole types, sizes, depths and specific requirements.
 - For setting-out dimensions of SVP's, RWP's etc, refer to Architect's or Mechanical Engineer's drawings.
 - All road gully and drainage channel connections shall be 150mm diameter unless otherwise specified.
 - All foul and RWP connections shall be 100mm diameter unless otherwise specified.
 - All rainwater pipes shall be trapped.
 - All precast concrete units used in the drainage works shall be manufactured using sulphate resisting cement.
 - Manhole covers and frames shall be to BSEN 124 and shall be Kitemarked or if to be recessed then in accordance with the FACTA association guidelines.
 - Refer to structural drawings for details of manholes and sewers constructed within floor slabs and foundations.
 - Cover levels are to be adjusted locally to suit finished ground levels.
 - At least one soil pipe at the head of each foul run shall vent to the atmosphere.
 - Where existing manholes are to be retained the cover and frames shall be adjusted to suit the finished ground/slab level. Covers shall be recessed and double sealed.
 - HEALTH AND SAFETY: The works shall be carried out by specialist competent and experienced contractors who are members of a recognised national organisation. Operatives shall have received full and appropriate training for the operations they are to undertake. All work shall be carried out in accordance with all pertinent Health and Safety Regulations.
- THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE SPECIFICATION AND ALL OTHER RELEVANT DRAWINGS. DO NOT SCALE FROM THIS DRAWING.

project

AGAR CHILDREN'S CENTRE

C9

26.01.09

FINAL CONSTRUCTION ISSUE

RJ

RD

C1

27.04.07

ISSUED FOR CONSTRUCTION

SB

AGA

rev.

date

drawn

chk

drawing status

for construction

title

DRAINAGE LAYOUT

scale

1:100

date

Oct'06

drawn

SB

engineer

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drw. no.

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C9

Consulting Structural Engineers

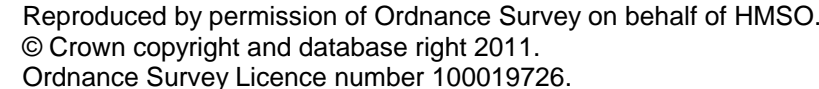
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