



Manhole Name	Cover Level (m)	MH Depth (m)	Manhole Dia. (mm)	Pipe Out Dia. (mm)	Pipe In Dia. (mm)	Pipe In (m)	Pipe In (m)	Pipe In (m)	Pipe In (m)
SA1	78.200	1.200	1000.000	SA1.000	77.800	150.000	SA1.000	76.800	150.000
SA2	78.200	1.200	1000.000	SA2.000	77.900	375.000	SA2.000	76.900	375.000
SA3	78.400	1.200	1000.000	SA3.000	78.000	375.000	SA3.000	77.000	375.000
SA4	78.400	1.200	1000.000	SA4.000	78.000	375.000	SA4.000	77.000	375.000
SA5	78.400	1.200	1000.000	SA5.000	78.000	375.000	SA5.000	77.000	375.000
SA6	78.400	1.200	1000.000	SA6.000	78.000	375.000	SA6.000	77.000	375.000
SA7	78.400	1.200	1000.000	SA7.000	78.000	375.000	SA7.000	77.000	375.000
SA8	78.400	1.200	1000.000	SA8.000	78.000	375.000	SA8.000	77.000	375.000
SA9	78.400	1.200	1000.000	SA9.000	78.000	375.000	SA9.000	77.000	375.000
SA10	78.400	1.200	1000.000	SA10.000	78.000	375.000	SA10.000	77.000	375.000
SA11	78.400	1.200	1000.000	SA11.000	78.000	375.000	SA11.000	77.000	375.000
SA12	78.400	1.200	1000.000	SA12.000	78.000	375.000	SA12.000	77.000	375.000
SA13	78.400	1.200	1000.000	SA13.000	78.000	375.000	SA13.000	77.000	375.000
SA14	78.400	1.200	1000.000	SA14.000	78.000	375.000	SA14.000	77.000	375.000
SA15	78.400	1.200	1000.000	SA15.000	78.000	375.000	SA15.000	77.000	375.000
SA16	78.400	1.200	1000.000	SA16.000	78.000	375.000	SA16.000	77.000	375.000
SA17	78.400	1.200	1000.000	SA17.000	78.000	375.000	SA17.000	77.000	375.000
SA18	78.400	1.200	1000.000	SA18.000	78.000	375.000	SA18.000	77.000	375.000
SA19	78.400	1.200	1000.000	SA19.000	78.000	375.000	SA19.000	77.000	375.000
SA20	78.400	1.200	1000.000	SA20.000	78.000	375.000	SA20.000	77.000	375.000

- General Notes**
- This Drawing is to be read in conjunction with all relevant TRP, Architects, Service Engineers and Subcontractor drawings.
 - Review all drawings and report any discrepancies to TRP Consulting prior to commencement.
 - Do not scale from this drawing. All dimensions and levels including any adjustment to existing structures to be checked on site prior to commencement.
 - Work from figured dimensions only.
 - No deviation from details shown on this drawing is allowed without TRP Consulting prior permission in writing.
 - All work to be carried out in accordance with the relevant specifications issued by TRP Consulting, British Standards Codes of Practice, Statutory requirements and the Contract Documents.
- Drainage**
- All drainage to be installed in accordance with the requirements set out in BS 5351, BS 8005 and the Building Regulations UNO.
 - This drawing is to read in accordance with TRP drainage details drawing no. 3804-TRP-ZZ-XX-DR-C-4010, 4011 & 4012.
 - For details of materials and workmanship refer to the specification (R12).
 - The manhole cover levels shown on the drawing are approximate. Final cover levels are to be adjusted to suit finished paving levels and are to be confirmed with architect prior to construction.
 - The contractor is responsible for checking invert levels and positions of all existing drains, sewers, inspection chambers and manholes shown on this drawing immediately on site establishment. Any discrepancies must be reported immediately.
 - Where the new site drainage is to be connected into the existing manholes in carpark areas and/or existing adopted drains, the contractor is responsible for all liaison with the relevant statutory undertakers and local authority with regard to road closures, traffic management, permits to work, submission of contractors method statement and risk assessment and other documentation and correspondence associated with the site stage (Part 2) element of the works.
 - Rocker pipes to be provided at all concrete raised interfaces.
 - Maintain adequate protection to drains by providing a minimum cover during the construction period.
 - The falls shown on pipe runs are indicative and pipes are to be installed to the invert levels shown on the manhole schedule.
 - All pipes are to be laid with soffits level unless noted otherwise.
 - All gullies to be installed with soft level (e.g. at changes in pipe sizes) UNO.
 - Surface channel drains to be ACO MultiDrain or similar approved.
 - Pipe gradients are indicative minimums.
 - All sump units to linear drainage channels to be fitted with four manholes.
 - All surface water connections to be 150mm diameter at min falls of 1:100 UNO.
 - All surface water connections to be 100mm diameter at min falls of 1:40 UNO.
 - All drains to be set out to give a minimum clearance of 1.0m to kerbs.
 - All pipes above 300mm diameter to be precast concrete to BS 5911-1 Class 120.
 - All covers and rodding access points to be sealed and screwed tight.
 - All gullies to be precast concrete to BS 5911-230.
 - Setting out of all internal gully/plumbing connections to be co-ordinated between the service engineers and the Architect.
 - All internal gullies, plumbing connections, soil, stacks, 3/4"p's and all other connections of foul and surface water drains to be below ground to be fitted with accessible rodding points above above level.
 - Gully gratings to be Grade D400.
 - Drainage channels in car parks to be fitted with Hoelgard ductile iron gratings Grade C250.
 - Upon completion of drainage works, the new drainage system is to be thoroughly cleaned and a CCTV survey performed to confirm no construction debris or blockages remain.
 - All private drainage is to comply with BS EN 1212 and Building Regulations Part H.
- MANHOLES**
- All manholes to be precast concrete to BS 5911-3.
 - Manhole covers on roads and hard paved areas to be Grade D400 double triangle.
 - All internal manhole covers to be double sealed, lockable and recessed to avoid floor finishes where applicable.
 - Internal diameters of manholes to be 1050mm dia. where depth to pipe soffit is less than 1.5m, and 1200mm dia. elsewhere unless noted otherwise. C-sockets polypropylene inspection chamber by 'Hepworth' or similar approved installed in accordance with the manufacturers recommendations.
- MANHOLE COVERS**
- Carriageways General - EN124 Class D400.
 - Carriageways within 0.5m of kerb - EN124 Class C250.
 - Slow Moving Heavy (SM) - EN124 Class B125. Slowing moving heavy (SL) - EN124 Class B125. Slow moving private cars - EN124 Class B125.
 - Internal - Jones of Oswestry - Superseal double sealed with neoprene gasket and cover graise or similar approved.
 - Refer to architects drawing for details of any manhole covers which require steel panels.

LEGEND

- SURFACE WATER EXTG
- SURFACE WATER PROPOSED
- FOUL WATER PROPOSED
- FOUL WATER EXTG
- SURFACE WATER DIVERSION

Code	Description	Date	By
C09	Access updated: Gullies and land drain added	14-04-2010	DC
C08	Access updated: Gully added	02-04-2010	DC
C07	SW MH added	29-01-2010	DC
C06	Foul I.L.'s updated to match schedule.	09-01-2010	DC
	Drainage added		
C05	Fire road updated MH cover levels to suit. Car park cover levels updated. Concrete encasement for interceptocept.	02-12-1910	DC
C04	SW updated to suit as built. FW updated upon request. MH reference updated.	18-06-1910	DC
C03	MH reference updated.	03-06-1910	DC
C02	MH SN 03 Omitted.	24-05-1910	DC
C01	Issued for Construction.	09-05-1910	DC
P07	Alteration tank revised.	26-02-1910	DC
P06	MHS amended.	26-02-1910	DC
P05	MHS amended.	26-02-1910	DC
P04	Alteration tank volume revised.	22-02-1910	DC
P03	Alteration tank revised.	24-06-1810	DC
P02	Foul network added.	07-06-1810	DC
P01	MHS 10 relocated. Details added.	06-06-1810	DC
	Issued for information.		
	Description	Date	By

BAE SAMLESBURG ASSET MANAGEMENT FACILITY

BAE SYSTEMS

PROPOSED FOUL & SURFACE WATER DRAINAGE LAYOUT

Drawn by: [Name] Checked: [Name] Scale: 1:250 Sheet: A0

DC SEP 2018 TR

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