



SWMH-1
(1200Ø PCC)
CL = 65.20
IL = 64.50

SWMH-2 - Hydro-Brake
(1350Ø PCC)
CL = 66.00
IL = 64.57

Hydro-Brake by Hydro
International Ltd.
Flow to limited to 2.3/s.
Smallest flow through 75mm Ø.

SW - ATTENUATION TANK
49m³ cellular storage crates. 16x4m x 0.8m deep.

'Polypipe Polystorm-R PSM1' storage crates
installed in strict accordance with manufacturers
recommendations. Tank to be wrapped in
impermeable membrane. Impermeable
geomembrane to be wrapped in protective
geotextile such as Polystorm Permatex 300 to
prevent punctures.

CL = 66.05
Top of tank = 65.45
Base of tank = 64.65

Indicates lines of Polystorm
PSM4 inspect crates for
inspection & maintenance.
Polystorm access vertical
shaft at each end.

Polystorm tank
vent & surface box.

SW - ATTENUATION TANK
61m³ cellular storage crates. 20x4m x 0.8m deep.

'Polypipe Polystorm-R PSM1' storage crates installed in strict
accordance with manufacturers recommendations. Tank to be wrapped in impermeable membrane. Impermeable
geomembrane to be wrapped in protective geotextile such as
Polystorm Permatex 300 to prevent punctures.

CL = 66.20
Top of tank = 65.60
Base of tank = 64.80

RWP tails into permeable paving sub base,
wrapped in permeable membrane.

SWIC-2
(4500 PPIC)
CL = 65.20
IL = 64.60

Polystorm tank
vent & surface box.

SWMH-3
(1050Ø PCC)
CL = 66.00
IL = 64.75

SWMH-3
(1050Ø PCC)
CL = 66.00
IL = 64.79

SWMH-4
(1050Ø PCC)
CL = 65.75
IL = 64.98

SWIC-3
(450Ø PPIC)
CL = 65.85
IL = 65.02

SWIC-1
(4500 PPIC)
CL = 66.30
IL = 64.95

Indicates lines of Polystorm PSM4
inspect crates for inspection &
maintenance. Polystorm access
vertical shaft at each end.

Existing hotel drainage
remains unaltered.

TOPOGRAPHICAL NOTES:

The topographical information and buried services shown on this drawing were provided to BKPL by others. BKPL have not verified this information and therefore we can not guarantee its accuracy. The position and alignment of services may differ from that shown and other buried services may be present.

The contractor must verify the location of all buried services before any excavation or piling works begin. Damage to existing services could present a major health and safety risk plus associated commercial penalties.

Levels information shown is based on information available.
This office is to be made aware of any discrepancies found on site.

DRAINAGE NOTES:

- All adoptable works to be in accordance with 'SSG appendix C' where applicable.
- All manhole cover levels to be confirmed by Architect.
- Clay pipes to be flexibly jointed and comply with the requirements of BS EN 295.
- Concrete pipes to be flexibly jointed and comply with the requirements of BSEN 1916 and BS 5911.
- Plastic pipes (PVC-U) to be flexibly jointed and comply with the requirements of BS EN 1401-1 1998.
- All surface water pipes to be 110mm Ø, laid at a gradient no flatter than 1:80 (UNO).
- All foul water pipes to be 110mm Ø, laid at a gradient no flatter than 1:40 (UNO).
- For minimum depths requiring pipe protection refer to drainage details drawings.
- Protection to drains and gully connections may be concrete bed surround between cover depths of 450mm to 200mm.
- Until final surface is placed, heavy traffic is not to be allowed over pipe trenches without special precautions.
- Pipes and fittings are to be laid in accordance with the manufacturers recommendations.
- All manholes to be Type B. 1200mm Ø precast concrete manhole rings with minimum 150mm concrete surround (UNO). All manhole covers to be D400 class (UNO). Refer to drainage details drawings for manhole installation details.
- All foul water pop up & RWP locations are TBC by Architect.
- Rodding access is to be provided at all pop-ups & RWP's.
- For setting out of all pop-up positions refer to Architect's details.
- Civil engineering contractor to arrange for:
 - Own services and temporary supplies.
 - Pathway & partial closure as deemed required by their method statement. Including costs.
 - Temporary adequate over pumping as deemed required by civil engineers method of construction.
- The contractor should confirm the locations for existing services prior construction.

DRAINAGE LINE TYPES KEY:

REF.	DESCRIPTION
---	Existing SW network
---	Proposed SW network

DRAINAGE ANNOTATION KEY:

REF.	DESCRIPTION
SW	Surface water drainage
FW	Foul water drainage
CW	Combined water drainage
MH	Manhole
IC	Inspection chamber
BD	Backdrop required
PCC	Precast concrete chamber
PPIC	Polypropylene inspection chamber
GU	Gully
CL	Cover level (m)
IL	Invert level (m)
SVP	Soil vent pipe
PU	Pop up
RWP	Rainwater downpipe
ST	Silt trap

DRAINAGE NOTE:

All information shown is subject to local building control & local water authority applications, comments & approvals.

NOTES:

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- All dimensions shown on this drawing are in millimeters unless noted otherwise.
- If the Contractor consider that they do not have sufficient information to safely complete the works detailed on this drawing, they should contact the Engineer.
- This document uses revision codes in accordance with ISO EN 19650:
P, Preliminary (non-contractual) - review, comment or approval.
C, Contractual - Approved for stage completion.
- This document uses status codes in accordance with ISO EN 19650:
Work in progress:
S0 - WIP
Shared (non-contractual):
S1 - Coordination, S2 - Information, S3 - Review, S4 & S5 - Approval.
Published (contractual):
A1, An, etc. (where "n" relates to the project stage)
- This document uses project stages in accordance with the IStructE Structural Plan of Work 2020:
2 - Concept, 3 - Coordination, 4 - Technical Design,
4.5 - Production Design, 5 - Construction, 6 - Handover.
- Only documents with a revision code C# (where 'n' relates to a revision number) and status code A4 or A5 are suitable for construction. Any deviations to that which is on site is not the liability of BKPL.

P01	11.04.25	STAGE 3 - ISSUED FOR APPROVAL	PA
REV.	DATE	REVISION DETAILS	INITIALS

CURRENT DRAWING REVISION CHECKED BY			SP
CURRENT DRAWING REVISION APPROVED BY			AI

DRAWING STATUS:	PROJECT STAGE:
S3	STAGE 3

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PROJECT:
**Premier Inn
Manchester Airport (Heald Green)**

TITLE:
**Proposed Surface Water
Drainage GA**

SCALE (A1)	AUTHOR	DATE	REVISION	BKPL No.
1:100	PA	Apr 25	P01	15191

DRAWING REF:
15191-BKP-XX-XX-DR-C-0512

