Worthing Hospita

FOUL WATER MANHOLE SCHEDULE							
REF.	CL	IL	DEPTH	PIPE DIA.	TYPE	MH DIA.	COVER
FW MH04	5.36	4.41	0.95	100	EXISTING	1200	B125
FW MH18	5.34	4.22	1.12	100	EXISTING	1350	B125
FW MH22	5.33	4.63	0.70	100	EXISTING	SQUARE	B125
FW MH21	5.34	4.35	0.99	100	EXISTING	1050	B125
SURFACE WATER MANHOLE SCHEDULE							
REF.	CL	IL	DEPTH	PIPE DIA.	TYPE	MH DIA.	COVER
SW IC01	6.45	3.93	2.52	150	TYPE 3	450	D400
SW MH02	6.17	3.93 *	2.24	150	TYPE 2	1200	D400
SW IC02A	5.31	4.13	1.18	150	TYPE 3	450	D400
SW MH03	5.32	4.15 *	1.17	150	TYPE 2	1200	D400
SW IC04	5.25	4.55	0.70	150	TYPE 3	450	B125
SW IC05	5.35	4.48	0.87	150	TYPE 3	450	B125
SW IC06	5.34	4.74	0.60	150	TYPE 3	450	B125
SW IC07	5.34	4.74	0.60	150	TYPE 3	450	B125

*	Manhole to incorporate catch pit.
**	Manhole to be double sealed and bolted with recessed internal covers.
NOTES	Manhole depth indicates distance from cover level to invert level of the lowest outlet pipe.

Project/Task No. 14100/10 Scale: AS SHOWN ORIGINAL DRAWING SIZE A1

1. GENERAL

(i) This drawing is not to be scaled, work to figured dimensions only, confirmed on site.

(ii) This drawing is to be read in conjunction with all relevant architectural drawings, detailed specifications where applicable and all associated drawings in this series.

(iii) Any discrepancy on this drawing is to be reported immediately to the partnership for clarification.

(iv) The contractor is responsible for all temporary works and for the stability of the works in progress.

2. DRAINAGE GENERAL

(i) All foul and storm water drains which are not to be adopted as public sewers under a section 104 Agreement must be constructed in accordance with the Building Regulations, BS EN 752 and where appropriate the relevant agreement certificates.

(ii) Manholes, gullies, gully connections, sewers and other sewerage structures intended to convey surface water are to be constructed in accordance with the Water Authorities Association Specification 'Sewers for Adoption' 7th Edition and relevant Council Design Guide.

(iii) All concrete used in drainage works to comply with BRE Digest 363 for Class DS-2 sulphate conditions.

3. BELOW GROUND DRAINAGE

(i) Pipework to be UPVC-U pipes to BS 4660 : 2000 and Inspection Chambers to BS EN 13598.

(ii) All adoptable drainage to be constructed in accordance with 'Sewers for Adoption' 7th Edition and the relevant Council Design Guide.

(iii) All private surface water sewers to be laid at 1 in 80 unless otherwise stated on the drawing.

(iv) All private foul water sewers to be laid at 1 in 40 at the head of pipe runs and 1 in 80 elsewhere unless otherwise stated.

(v) All private foul sewer pipes to be 100mm diameter unless otherwise stated on the drawing. All private surface water sewer pipes to be 100mm diameter from downpipes and 150mm diameter elsewhere unless otherwise stated on the drawing.

(vi) Allow for rodding access above ground where rainwater downpipes do not have a direct connection to an inspection chamber.

(vii) Existing sewer pipe to be re-used to be surveyed and levelled prior to commencement of the drainage works and refurbished if necessary.

(viii) Connections to an adopted sewer only to be made following approval from the relevant adopting Authority.

(ix) All drains, sewer pipes and manholes to be cleaned and tested for water tightness on completion of construction.

4. MANHOLE COVERS & FRAMES

(i) Manhole covers to be class D400 in highways, class B125 in footways and verges, class C250 in external maintenance vehicle access areas and verges, and class A15 in non-trafficked areas.

(ii) Manhole covers and frames to be bedded and surrounded in 1:3 mortar

5. PIPES

(i) Plastic pipes shall be of unplasticised polyvinyl chloride (UPVC) complying with the requirements of BS EN 1401-1:2009.

(ii) Concrete pipes shall be spun by a centrifugal process or be vertically pressed. They shall possess self inverting sockets and shall comply with the requirements of and be tested in accordance with BS 5911:2010.

EXISTING 150mm DIA. OVERFLOW PIPE

ALL FOUL PIPES (B2)

FW MH18 CL 5.34 IL 4.22

SW IC07 CL 5.34 IL 4.74

SW IC06 CL 5.34 IL 4.74

CONNECTION TO BE RODDABLE ABOVE GROUND.

FOUL MANHOLE COVERS LIFTED/RAISED TO SUIT NEW FINISHED FLOOR LEVELS. DOUBLE SEALED AND BOLTED WITH RECESSED COVERS TO ACCEPT SURFACE FINISHES. WHEN NEW CONNECTIONS ARE FORMED MANHOLE BENCHING SHOULD BE REVISED/AMENDED TO SUIT.

FW MH21 CL 5.34 IL 4.35

EXISTING LIVE FOUL WATER SERVICE TO BE MAINTAINED DURING FOUNDATION WORKS. CONTRACTOR TO MANAGE.

FW MH04 CL 5.36 IL 4.41

CONNECTION TO BE RODDABLE ABOVE GROUND. POTENTIAL CLASH WITH EXISTING FW DRAIN. TO BE COORDINATED ON SITE

EXISTING SOAKAWAYS TO BE INFILLED OR REMOVED.

EXISTING RWP TO BE CAPPED OFF AND ABANDONED. TO BE CONFIRMED BY ARCHITECT

CONNECTION TO BE RODDABLE ABOVE GROUND.

SW IC04 CL 5.25 IL 4.55

FW MH22 CL 5.33 IL 4.63

SW IC05 CL 5.35 IL 4.48

SW MH03 (SILT TRAP) CL 5.32 IL 4.15

TO REPLACE EXISTING CHAMBER WITH SAME CL & IL

SW IC02A CL 5.31 IL 4.13

150mmø 1:100

CL 5.40 IL 4.05 CABLE 4.54(0.86bgl)

CL 5.59 IL 4.03 SW PIPE 4.16(1.43bgl)

CL 5.59 IL 4.03 HV CABLE 4.00(1.59bgl)

CL 5.59 IL 4.01 BT CABLE 4.49(1.00bgl)

CL 5.59 IL 4.00 BT CABLE (DEPTH NOT SPECIFIED)

CL 5.59 IL 4.00 COMM CABLE (DEPTH NOT SPECIFIED)

CL 5.59 IL 3.99 BT CABLE (DEPTH NOT SPECIFIED)

POTENTIAL CLASHES WITH EXISTING HV CABLE AND SW PIPE. ACCURACY OF GPR SURVEY DEPTH INFORMATION TBC BY CONTRACTOR ON SITE- IF CLASHES DO EXIST, RELAY THE DUCTING AT A HIGHER ELEVATION.

LOCATIONS OF EXISTING SERVICES SHOWN INDICATIVELY, BASED ON SUBVISION SURVEY'S DRAWING REF: WORUTC-SUB-XX-XX-SU-YS-0001 (MAY 2024).

CL 6.17 IL 3.94 LV CABLE 5.84(0.33bgl)

WATER MAIN CLASH WITH SOAKAWAY AND CHAMBER. TO BE DIVERTED.

SW MH02 (SILT TRAP) CL 6.17 IL IN 3.93 IL OUT 3.93

PROPOSED CELLULAR SOAKAWAY, DIMENSIONS 210m²x1.2m(d). POLYPIPE POLYSTORM-R MODULAR CELL OR SIMILAR, WITH 5No ROWS OF POLYSTORM INSPECT CRATES OR SIMILAR FOR MAINTENANCE ACCESS.

SIZED BASED ON INFILTRATION RATE OF $1.11x10^{-6}$ms ESTABLISHED ON SITE BY INFILTRATION TESTING TO BRE365.

DESIGNED TO ACCOMMODATE TWO CONSECUTIVE 6-HOUR 1 IN 100 YEAR STORMS (PLUS 45% ALLOWANCE FOR CLIMATE CHANGE), DUE TO NOT MEETING HALF-DRAIN TIME REQUIREMENTS.

SIZE & ARRANGEMENT INDICATIVE PENDING CONFIRMATION OF PROPOSALS BY DRAINAGE OFFICER.

SOAKAWAY CONSTRUCTION PROPOSED INITIALLY AS A STANDALONE ACTIVITY, TO BE CONNECTED AT A LATER DATE WHEN DRAINAGE WORKS ARE UNDERTAKEN.

CL 6.17 TOP 5.13 BASE 3.93

VENT LOCATION PROPOSED ON SIDE OF CYCLE STORE. LOCATION TO BE CONFIRMED BY ARCHITECT.

Bike Shelter No Access

SW IC01 CL 6.45 IL 3.93

12m

19m

150mmø 1:100

RE

RWP

SVP

AMBULANCES ONLY

MOTORCYCLES ONLY

LEGEND

- PROPOSED FOUL WATER SEWER
- PROPOSED SURFACE WATER SEWER
- PROPOSED CHANNEL DRAIN
- PROPOSED THRESHOLD DRAIN
- INSPECTION ROUTE FOR SOAKAWAY
- EXISTING SURFACE WATER SEWER
- EXISTING FOUL WATER SEWER
- EXISTING SW SEWER TO BE REMOVED
- EXISTING FW SEWER TO BE REMOVED
- EXISTING SOAKAWAY TO BE REMOVED
- PROPOSED SW CONCRETE MANHOLE
- EXISTING FW CONCRETE MANHOLE
- PROPOSED INSPECTION CHAMBER 450mmø / 600mmø
- ACO YARD GULLY
- RAIN WATER PIPE
- SOIL VENT PIPE
- RODDING EYE
- PROPOSED CELLULAR SOAKAWAY

N

INDICATIVE ONLY

1:100

0 1m 2m 3m 4m 5m

ISSUED FOR STAGE 4- UPDATE	OFK	TRB	24.07.24	P9
ISSUED FOR STAGE 4	OFK	TRB	05.07.24	P8
Description	By	Aprvd.	Date	Rev.

ISSUED FOR STAGE 4

Title: PROPOSED DRAINAGE RECONFIGURATION

Project: URGENT TREATMENT CENTRE WORTHING HOSPITAL

Client: MORGAN SINDALL

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Drawing No. WORUT2-HOP-ZZ-XX-DR-C-0510 Status S4 Rev. P9

SITE PLAN
(1:100)

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1:20 0 0.2m 0.4m 0.6m 0.8m 1m

1:50 0 0.5m 1m 1.5m 2m 2.5m

1:100 0 1m 2m 3m 4m 5m

P:\PROJECTS\14100 Worthing Hospital, Lyndhurst Rd\Drawings\HOP\Task 11 UTC Scheme 2\Civils\WORUT2-HOP-ZZ-XX-DR-C-0510 Oliver Finn-Kelcey