		Surface Wat	<u>er Manhol</u>	e Schedule				
			6		Depth to	Depth to	Nom	
Reference	Chamber Type	Diameter (mm)	Cover	Invert Level	Invert	Soffit	Pipe Size	Cover Typ
	,,	, ,	Level		(m)	(m)	(mm)	, .
SW01	Type 4	450	31.95	30.33	1.62	1.52	100	A15
SW02	Type 4	450	31.35	30.55	0.8	0.7	100	B125
SW03	Type 4	450	30.05	29.53	0.52	0.42	100	A15
SW04	Type 4	450	30.80	29.35	1.45	1.35	100	A15
	<del>                                     </del>		+	†				
SW05	Type 4	450	30.05	29.53	0.52	0.42	100	A15
SW06	Type 4	450	30.80	29.35	1.45	1.35	100	A15
SW07	Type 4	450	29.10	28.50	0.6	0.5	100	B125
SW08	Type 4	450	29.20	28.31	0.89	0.79	100	A15
SW09	Type 4	450	28.58	27.98	0.6	0.5	100	B125
SW10	Type 4	450	28.77	27.79	0.98	0.88	100	A15
SW11	Type 4	450	27.99	27.35	0.64	0.54	100	B125
SW12	Type 4	450	28.22	27.15	1.07	0.97	100	A15
SW13	Type 4	450	27.76	27.00	0.76	0.66	100	A15
SW14	Type 4	450	27.50	26.75	0.75	0.65	100	A15
SW15	Type 4	450	29.63	29.00	0.63	0.53	100	A15
SW16	Type 4	450	28.49	27.50	0.99	0.89	100	A15
SW17	Type 4	450	29.63	29.08	0.55	0.45	100	A15
SW18	Type 4	450	29.35	28.60	0.75	0.45	100	A15
SW19	Type 4	450	31.10	30.60	0.75	0.03	100	A15
SW20		450	29.98	29.24	0.74	0.64	100	A15
	Type 4		_	+				
SW21	Type 4	450	31.10	30.20	0.9	0.8	100	A15
SW22	Type 4	450	30.89	29.97	0.92	0.82	100	A15
SW23	Type 4	450	32.50	31.65	0.85	0.75	100	A15
SW24	Type 4	450	31.30	30.50	0.8	0.7	100	A15
SW25	Type 4	450	32.60	32.10	0.5	0.4	100	A15
SW26	Type 4	450	31.66	30.80	0.86	0.76	100	A15
SW27	Type 4	450	38.48	36.75	1.73	1.63	100	B125
SW28	Type 4	450	37.60	36.65	0.95	0.85	100	A15
SW29	Type 4	450	35.35	34.80	0.55	0.45	100	A15
SW30	Type 4	450	36.00	34.60	1.4	1.3	100	A15
SW31	Type 4	450	35.35	34.36	0.99	0.89	100	A15
SW32	Type 4	450	35.50	34.32	1.18	1.08	100	B125
SW33	Type 4	450	35.50	34.27	1.23	1.13	100	A15
SW34	Type 4	450	35.50	34.18	1.32	1.22	100	A15
SW35	Type 4	450	35.35	34.02	1.33	1.23	100	A15
			+					
SW36	Type 4	450 450	34.70	33.96	0.74	0.64	100	A15
SW37	Type 4	450	33.60	33.15	0.45	0.35	100	A15
SW38	Type 4	450	34.75	33.42	1.33	1.23	100	A15
SW39	Type 4	450	37.39	35.87	1.52	1.42	100	B125
SW40	Type 4	450	36.54	35.66	0.88	0.78	100	D400
SW41	Type 4	450	36.50	35.42	1.08	0.98	100	A15
SW42	Type 4	450	31.35	30.20	1.15	1.05	100	A15
		Surface Wa	ter Catchpi	t Schedule				
			C	lm carrier."	Depth to	Depth to	Nom	
Reference	Chamber Type	Diameter (mm)	Cover	Incomming	Invert	Soffit	Pipe Size	Cover Typ
		` <i>'</i>	Level	Invert Level	(m)	(m)	(mm)	, ,
CP01	Type 4	225	32.42	30.16	2.26	2.16	100	B125
CP02	Type 4	225	30.95	29.32	1.63	1.53	100	A15
CP02	Type 4	225	30.80	29.30	1.5	1.4	100	A15
CP03 CP04		225	29.40	28.25	1.15	1.05	100	A15
	Type 4							
CP05	Type 4	225	28.85	27.70	1.15	1.05	100	A15
CP06	Type 4	225	27.55	27.05	0.5	0.4	100	A15
CP07	Type 4	225	27.50	26.60	0.9	0.8	100	A15
CP08	Type 4	225	28.15	27.42	0.73	0.63	100	A15
CP09	Type 4	225	28.80	28.35	0.45	0.35	100	A15
CP10	Type 4	225	29.40	28.70	0.7	0.6	100	A15
CP11	Type 4	225	30.50	29.70	0.8	0.7	100	A15
CP12	Type 4	225	30.80	30.15	0.65	0.55	100	A15
CD13	Type 4	225	31.20	30.50	0.00	0.55	100	Λ15

225

225

225

225

225

225

36.50

34.00

35.30

33.30

35.35 34.30

37.45 36.05

CP13

CP14

CP15

CP16

CP17

CP18

Type 4

Type 4

Type 4

Type 4

Type 4

Type 4

31.20 | 30.50 | 0.7 | 0.6 | 100

37.60 32.70 4.9 4.8 100

1.2

0.7

1.1

0.6

1.05 0.95 100

1.4 1.3 100

100

100

A15

A15

A15

A15

A15

		Surface Wate	Rodding E	ye Schedule				
RE01	N/A	100	31.95	30.91	1.04	0.94	100	N/A
RE02	N/A	100	31.35	30.75	0.6	0.5	100	N/A
RE03	N/A	100	30.20	29.60	0.6	0.5	100	N/A
RE04	N/A	100	30.80	29.75	1.05	0.95	100	N/A
RE05	N/A	100	30.20	29.60	0.6	0.5	100	N/A
RE06	N/A	100	30.80	29.75	1.05	0.95	100	N/A
RE07	N/A	100	29.23	28.60	0.63	0.53	100	N/A
RE08	N/A	100	29.08	28.41	0.67	0.57	100	N/A
RE09	N/A	100	29.01	28.75	0.26	0.16	100	N/A
RE10	N/A	100	28.86	28.41	0.45	0.35	100	N/A
RE11	N/A	100	28.13	27.41	0.72	0.62	100	N/A
RE12	N/A	100	27.98	27.53	0.45	0.35	100	N/A
RE13	N/A	100	27.91	27.31	0.6	0.5	100	N/A
RE14	N/A	100	27.76	27.05	0.71	0.61	100	N/A
RE15	N/A	100	29.63	29.10	0.53	0.43	100	N/A
RE16	N/A	100	28.49	27.65	0.84	0.74	100	N/A
RE17	N/A	100	29.63	29.18	0.45	0.35	100	N/A
RE18	N/A	100	29.29	28.70	0.59	0.49	100	N/A
RE19	N/A	100	31.25	30.75	0.5	0.4	100	N/A
RE20	N/A	100	29.89	29.44	0.45	0.35	100	N/A
RE21	N/A	100	31.2	30.39	0.81	0.71	100	N/A
RE22	N/A	100	30.89	30.06	0.83	0.73	100	N/A
RE23	N/A	100	32.68	31.75	0.93	0.83	100	N/A
RE24	N/A	100	31.30	30.70	0.6	0.5	100	N/A
RE25	N/A	100	32.68	32.20	0.48	0.38	100	N/A
RE26	N/A	100	31.66	31.00	0.66	0.56	100	N/A
RE27	N/A	100	38.48	36.95	1.53	1.43	100	N/A
RE28	N/A	100	37.30	36.85	0.45	0.35	100	N/A
RE29	N/A	100	36.00	35.25	0.75	0.65	100	N/A
RE30	N/A	100	35.35	34.70	0.65	0.55	100	N/A
RE31	N/A	100	35.45	34.50	0.95	0.85	100	N/A
RE32	N/A	100	35.50	34.32	1.18	1.08	100	N/A
RE33	N/A	100	35.19	34.23	0.96	0.86	100	N/A
RE34	N/A	100	34.90	34.15	0.75	0.65	100	N/A
RE35	N/A	100	34.85	33.57	1.28	1.18	100	N/A
RE36	N/A	100	36.45	36.00	0.45	0.35	100	N/A
RE37	N/A	100	36.50	35.65	0.85	0.75	100	N/A
		Surface Wate	er Soakawa	y Schedule				
			Ground Level	Invert Level	Daar	Total	Nom	
Reference	Chamber Type Dimensions (m)	Dimensions (m)			Base	Depth	Pipe Size	Cover T
					Level	(m)	(mm)	
SA 01	Crate Soakaway	2 x 3 x 0.8 deep	32.42	30.10	29.40	3.02	100.00	N/A
SA 02	Crate Soakaway	1.5 x 2 x 0.8 deep	31.20	29.30	28.60	2.60	100.00	N/A
SA 03	Crate Soakaway	1.5 x 2 x 0.8 deep	29.95	29.25	28.55	1.40	100.00	N/A
SA 04	Crate Soakaway	1 x 2 x 0.8 deep	29.45	28.25	27.55	1.90	100.00	N/A
SA 05	Crate Soakaway	1 x 2 x 0.8 deep	28.90	27.65	26.95	1.95	100.00	N/A
C A OC	<del>-</del>	1 2 0 0 da an	27.55	27.00	26.20	1 25	100.00	N1/A

SA 06

SA 07

SA 08

SA 12

SA 14

SA 15

SA 16

SA 17

Crate Soakaway

Crate Soakaway

Crate Soakaway

Crate Soakaway

Crate Soakaway

Crate Soakaway

1 x 2 x 0.8 deep

2 x 3 x 0.8 deep

2 x 3 x 0.8 deep

Crate Soakaway 1.5 x 2 x 0.8 deep

Crate Soakaway 2 x 3 x 0.8 deep

Crate Soakaway 2 x 2.5 x 0.8 deep

Crate Soakaway 2 x 3 x 0.8 deep

27.55

27.15

28.10

28.80

30.40

36.50

33.32

34.00

35.35

26.50

28.30

27.00 | 26.30 | 1.25 | 100.00 |

29.65 28.95 1.45 100.00

30.80 | 30.10 | 29.40 | 1.40 | 100.00 | N/A

32.67 31.97 1.35 100.00

33.25 32.55 1.45 100.00

34.25 33.55 1.80 100.00

37.40 | 36.00 | 35.30 | 2.10 | 100.00 | N/A

1.35

35.30 | 34.60 | 1.90 | 100.00 | N/A

100.00

1.40 100.00

1.20 100.00

N/A

N/A

N/A

N/A

N/A

N/A

N/A

25.80

27.60

29.30 | 28.65 | 27.95 | 1.35 | 100.00 |

31.20 30.45 29.75 1.45 100.00

27.40 26.70

Reference	Chamber Type	Diameter (mm)	Cover Level	Invert Level	Depth to Invert (m)	Depth to Soffit (m)	Nom Pipe Size (mm)	Cover Typ
S1	Type 2	1200	36.20	33.85	2.35	2.2	150	D400
S2	Type 2	1200	37.4	33.61	3.79	3.64	150	D400
S3	Type 2	1200	33.89	31.48	2.41	2.185	225	D400
S4	Type 2	1200	33.11	31.36	1.75	1.525	225	D400
S5	Type 2	1200	28.55	27.00	1.55	1.25	300	D400
S6	Type 2	1200	28.75	26.70	2.05	1.75	300	D400
S7	Oil Separator	TBC	28.310	26.60	1.71	1.41	300	D400
S9	Type 2	1200	33.13	31.78	1.35	1.2	150	D400
		Road G	ullies Sche	dule				
Reference	Chamber Type	Diameter (mm)	Cover Level	Incomming Invert Level	Depth to Invert (m)	Depth to Soffit (m)	Nom Pipe Size (mm)	Cover Ty <sub>l</sub>
G1	CONCRETE	450	34.74	34.29	0.45	0.3	150	D400
G2	CONCRETE	450	35.09	34.64	0.45	0.3	150	D400
G3	CONCRETE	450	35.40	34.95	0.45	0.3	150	D400
G4	CONCRETE	450	36.95	36.50	0.45	0.3	150	D400
G5	CONCRETE	450	36.30	35.85	0.45	0.3	150	D400
G6	CONCRETE	450	34.70	34.25	0.45	0.3	150	D400
G8	Channel Drain	-	33.10	32.65	0.45	0.3	150	D400
G9	CONCRETE	450	33.35	32.90	0.45	0.3	150	D400
G10	CONCRETE	450	34.00	33.55	0.45	0.3	150	D400
G11	CONCRETE	450	33.05	32.60	0.45	0.3	150	D400
G12	CONCRETE	450	32.00	31.55	0.45	0.3	150	D400
G13	CONCRETE	450	31.04	30.59	0.45	0.3	150	D400
G14	CONCRETE	450	29.42	28.97	0.45	0.3	150	D400
G15	CONCRETE	450	29.16	28.71	0.45	0.3	150	D400
G16	CONCRETE	450	28.55	28.10	0.45	0.3	150	D400
G17	CONCRETE	450	27.93	27.48	0.45	0.3	150	D400
G18	CONCRETE	450	27.30	26.85	0.45	0.3	150	D400
		Surface Wate	r Soakawa	y Schedule				
Reference	Chamber Type	Dimensions (m)	Ground Level	Invert Level	Base Level	Total Depth (m)	Nom Pipe Size (mm)	Cover Ty
S 8	Crate Soakaway	5 x 11 x 1.2 deep	28.00	26.50	25.40	2.60	300.00	N/A

Road Drainage Manhole Schedule

## NOTES

- 1. Do not scale from this drawing. If in doubt ask.
- 2. Dimensions are in millimetres unless noted otherwise.
- 3. These drawings shall be read in conjunction with the Architect's drawings.
- 4. Setting out is to be in accordance with Architect's drawings.
- 5. Underground drainage:-

Private foul drains under buildings to first manhole to be 100mm or diameter Hepworth Plastidrain or equivalent PVC—U pipes to BS EN 1401 unless noted otherwise

Foul sewers beyond first manhole to be 100 or 150mm diameter Hepworth Supersleve or equivalent VC pipes to BS EN 295—1 with 150mm granular bed & surround as shown on drawing 301817 / 312.

All surface water drains to be 100mm diameter Hepworth Plastidrain or equivalent PVC—U pipes to BS EN 1401

- 6. Foul drains to fall at minimum 1:40 & surface water drains to fall at 1:80 unless noted otherwise or where invert levels are not indicated.
- 7. External drains with less than 600 cover (900 in accessway) to have special protection. See bedding details on drawing 309 / 102.
- 8. Drains alongside buildings and below formation level to have concrete bed and surround up to formation level
- Where drains pass through wall lines, provide precast concrete lintels over (lintel length to be pipe diameter + 50mm clearance either side + min 150mm bearing each end). Clearance around pipe to be filled with a compressible filler.
- 10. All underground drains to be laid with min. 150mm granular bed and surround, unless noted above. See also bedding details on drawing 301817/312.
- 11. For exact locations of svp's, ss's, rwp's, etc. refer to Architect's drawings.
- 12. Redundant drains to be removed or plugged & filled with grout.
- 13. For drainage, bedding & manhole details see vkhp drawing 1301817/312
- 14. All RWP's to discharge into roddable trapped access gullies.

В	Preliminary, issued for comments	15/06/18		
Α	Preliminary, issued for comments	24/05/18		
-	Preliminary, issued for comments	24/05/18		
Rev	Revision note	Date		

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Title
Drainage Notes & Surface Water
Manhole Schedule

Drn By	Chk By	DRG N0	REV
mw		204047/240	
Date	Scale	301817 / 310	A
May 2018	1:250 @ A1		