

Existing levels to be confirmed and reported back to drainage engineer before works commence

SOUTHERN WATER MANHOLE 7200
 CL 32.91
 IL UNKNOWN
 2296 1/145

NEW MANHOLE
 CL 30.67
 IL IN 30.74
 32.24m
 Backdrop Invert level

SOUTHERN WATER MANHOLE 8605
 CL 33.14
 IL 30.90
 2294 1/145

SOUTHERN WATER MANHOLE 8650
 CL 33.39
 IL 30.90

SOUTHERN WATER MANHOLE 7150
 CL 32.98
 IL 30.16
 2296 1/145

SOUTHERN WATER MANHOLE 7173
 CL 32.4m
 IL 30.59
 32.24m
 Backdrop Invert level

SOUTHERN WATER MANHOLE 8650
 CL 33.39
 IL 30.90

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 CL 33.39
 IL 30.90

SURFACE WATER MANHOLE SCHEDULE

MH No.	COVER	IN	OUT	DEPTH	PIPE	MAX MH	COVER TYPE
S1	36.35	35.71	35.66	0.69	150	3	A15
S14	36.35	35.47	35.47	0.88	150	3	A15
S2	36.35	35.35	35.35	1.00	150	3	A15
S3	36.35	35.12	35.12	1.23	150	3	A15
S3A	36.35	34.88	34.88	1.47	150	3	A15
S4	36.35	34.72	34.72	1.63	150	3	A15
S5	36.35	34.57	34.57	1.78	150	3	A15
S6	36.35	34.35	34.35	2.00	150	3	A15
S7	37.30	35.90	35.90	1.40	150	3	D400
S8	36.60	35.40	35.40	1.20	150	3	D400
S9	36.30	34.99	34.99	1.31	150	3	D400
S9A	34.23	33.03	33.03	1.20	150	3	D400
S9B	36.00	32.66	32.66	3.34	150	2	D400
S10	36.00	32.45	32.45	3.55	150	2	D400
S11	36.20	35.63	35.58	0.62	150	3	A15
S12	36.20	35.31	35.31	0.89	150	3	A15
S13	36.20	34.89	34.89	1.31	150	3	A15
S14	36.35	34.23	34.23	2.12	150	3	A15
S15	36.35	34.11	34.11	2.24	150	3	A15
S16	36.35	34.03	32.55	3.80	150	2	D400
S17	35.40	32.30	32.30	3.10	150	2	D400
S18	33.00	33.33	32.11	2.89	150	2	D400
S19	33.00	30.59	2.41	675	1500	D400	
S20	36.35	34.65	34.65	1.35	150	3	D400
S21	36.35	34.56	34.56	1.44	150	3	D400

All external pipework 100 Ø should be laid no flatter than 1/80 unless stated. S10 & S16 1200Ø concrete ring chambers for 180 maintenance. S10 to include Hydrocrete Optimum flow control - MD-SHE-0102. S19 is a proposed new manhole on existing surface water sewer.

Manhole to incorporate a silt trap.
 Manhole to incorporate backdrop.

FOUL MANHOLE SCHEDULE

MH No.	COVER	IN	OUT	DEPTH	PIPE	MAX MH	COVER TYPE
F1	36.20	35.36	35.31	0.89	150	3	A15
F2	36.20	35.07	35.07	1.13	150	3	A15
F3	36.20	34.65	34.65	1.55	150	3	A15
F4	36.35	34.40	34.40	1.95	150	3	A15
F5	36.35	35.54	35.49	0.86	150	3	A15
F6	36.35	35.30	35.30	1.05	150	3	A15
F7	36.35	35.21	35.21	1.14	150	3	A15
F8	36.35	35.01	35.01	1.34	150	3	A15
F9	36.35	34.91	34.91	1.44	150	3	A15
F10	36.35	34.74	34.74	1.61	150	3	A15
F11	36.35	34.64	34.64	1.71	150	3	A15
F12	36.35	34.60	34.60	1.75	150	3	A15
F13	36.35	34.20	34.20	2.15	150	3	A15
F14	35.40	33.97	33.97	1.43	150	3	D400
F15	35.00	33.87	33.87	1.13	150	3	D400
F16	33.00	30.74	30.67	2.32	225Ø1200	D400	

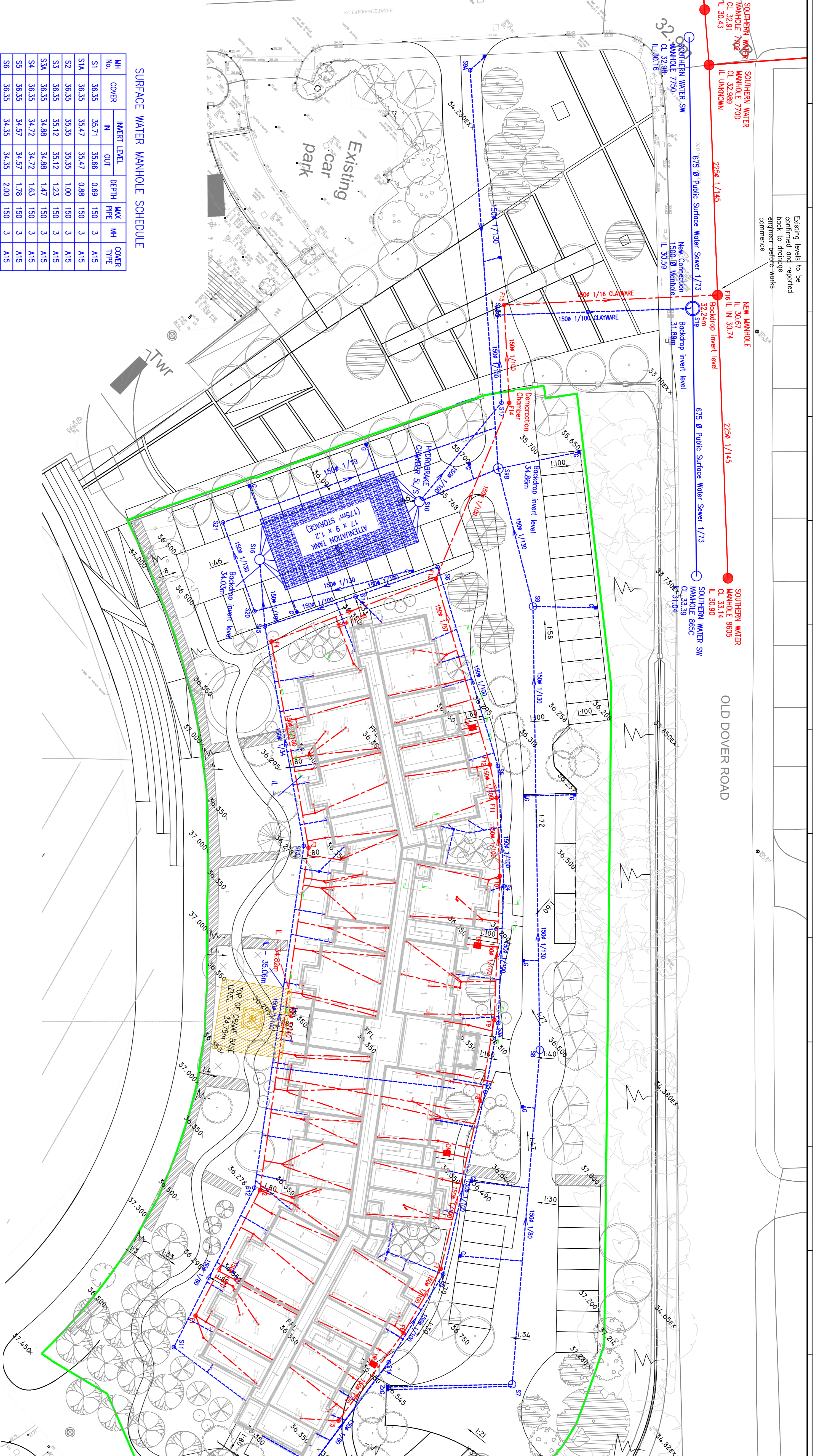
All external pipework 100 Ø should be laid no flatter than 1/70 unless stated. F16 is a proposed new manhole on existing 100Ø approximate invert level of the new manhole.

Manhole to incorporate backdrop.

ATTENUATION TANK SCHEDULE

REF	COVER LEVEL	LOWEST IL IN	TYPE	LENGTH	WIDTH	GRADE DEPTH	BASE LEVEL	TOTAL DEPTH	COVER TYPE
A11	36.00	32.55	CRATE	17.00	9.00	1.20	32.50	3.50	D400

Tank designed for a 1 in 100 year event plus 30% allowance for climate change. Outflow controlled to S/S by Hydrocrete optimum with 1.2m design head. Design top water level = 33.047m



FOR CONSTRUCTION

- NOTES:
- All dimensions in millimetres unless otherwise stated.
 - All levels in metres above Ordnance Datum.
 - Surface Water design based on a 1 in 100 year rainfall event (plus 30% Climate Change) remaining below ground with no risk of surface flooding on or off the site.
 - Manhole Types on the Schedules relate to types as used in Sewers for Adoption 7th Edition. Refer to other construction drawings in the series for standard details.
 - Where a specific diameter is shown in the manhole schedule (eg 2100), the manhole should be constructed to the standards for a Type 2 Manhole in Sewers for Adoption 7th Edition.
 - Manholes not scheduled are Type 4 inspection chambers
 - All RWP and SVP connecting pipework to be 100Ø unless noted otherwise.
 - 100Ø foul pipework to be laid no flatter than 1 in 40 internally and 1 in 70 externally.
 - Minimum depth at head of internal surface water to be 450mm and four water runs to be 750mm below finished floor level unless otherwise stated.
 - Foundations to be locally stepped where necessary as per Structural Engineers details. Where stub stacks are used, special details will be provided.

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The Planning Bureau
 WORKING

PROJECT: Old Dover Road CANTERBURY

DRAWING TITLE: Drainage Strategy

SCALE: 1 : 250

DATE: 28.02.14

DRAWING No: 31639-01

RESIGNED: GF

CHECKED: RJS

REVISION: M

McCarty & Stone
 Lead Lib. Greater Lib

McCarty & Stone Drawing Ref: SF-1927-05-DE-001