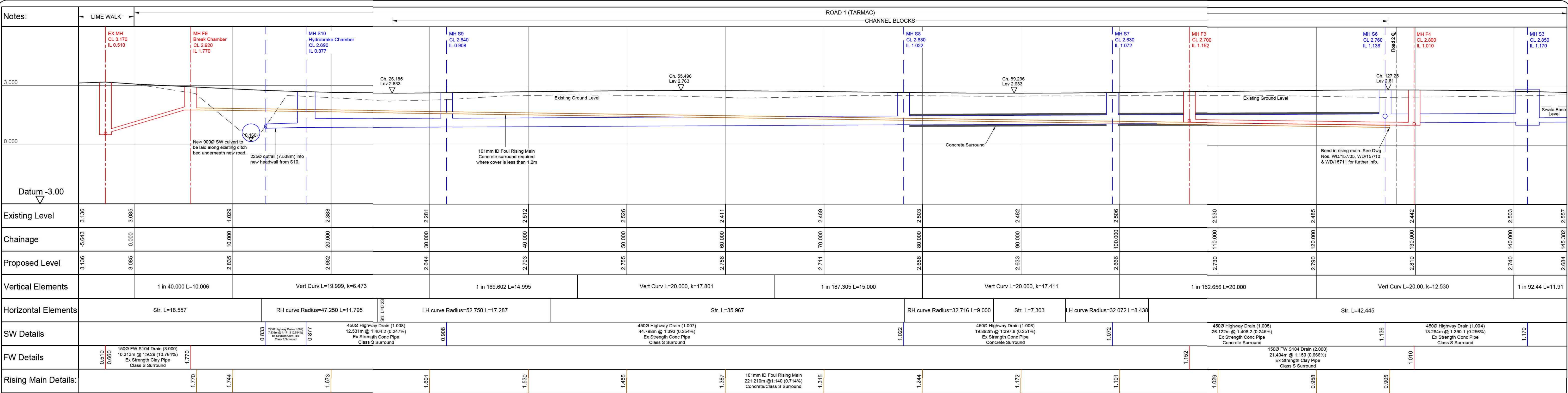
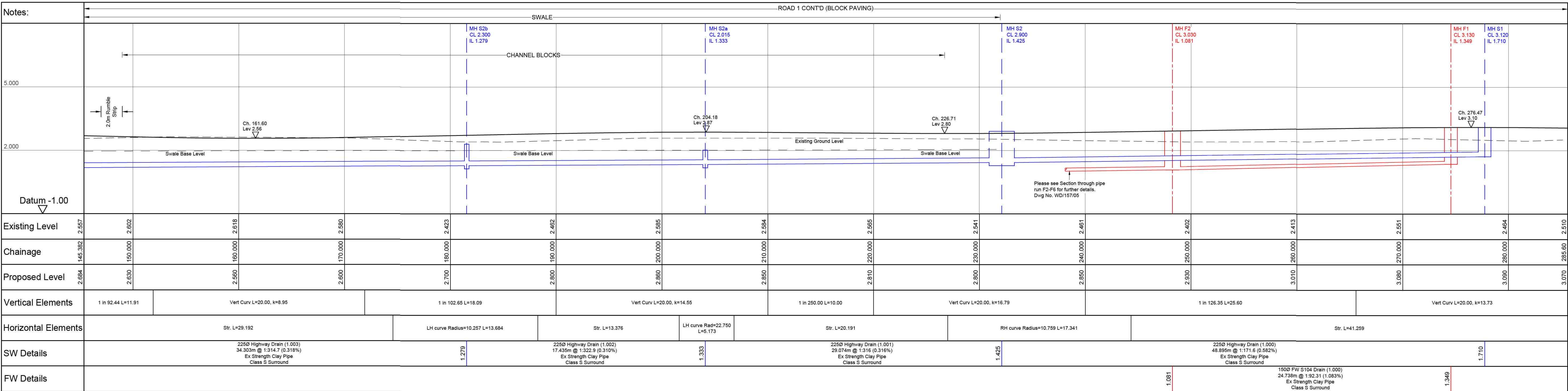




Section Along Road 1



Section Along Road 1 Cont'd

PIPE STRENGTH CALCULATIONS							
PIPE REFERENCE	PIPE dia	DEPTH OF	COVER	BEDDING	DESIGN	We x 1.25	REQ PIPE STR.
	mm	MIN m	MAX m	FACTOR	LOAD	Bedding Factor	
S1-S2	225	1.19	1.25	2.2	26.50	15.06	Ex strength clay pipe
S2-S2a	225	0.46	1.25	2.2	42.01	23.87	Ex strength clay pipe
S2a-S2b	225	0.46	0.80	2.2	39.16	22.25	Ex strength clay pipe
S2b-S3	225	0.80	1.46	2.2	35.19	19.99	Ex strength clay pipe
S3-S6	450	1.17	1.23	2.2	41.88	23.80	Ex strength conc pipe
S4-S5	225	0.98	1.24	2.2	29.04	16.50	Ex strength clay pipe
S5-S6	225	1.17	1.24	2.2	25.98	14.76	Ex strength clay pipe
S6-S7	450	1.11	1.17	4.5	44.37	12.33	Ex strength conc pipe
S7-S8	450	1.11	1.16	4.5	44.37	12.33	Ex strength conc pipe
S8-S9	450	1.16	1.28	2.2	42.40	24.09	Ex strength conc pipe
S9-S10	450	1.28	1.36	2.2	40.74	23.15	Ex strength conc pipe
S10-Headwall	225	1.59	1.63	2.2	24.04	13.66	Ex strength clay pipe
F1-F2	150	1.78	1.95	2.2	20.39	11.59	Ex strength clay pipe
F2-F6	150	2.33	2.39	2.2	20.09	11.41	Ex strength clay pipe
F3-F4	150	1.55	1.79	2.2	20.57	11.69	Ex strength clay pipe
F4-F5	150	1.79	2.20	2.2	21.05	11.96	Ex strength clay pipe
F5-F6	150	2.10	2.20	2.2	20.07	11.40	Ex strength clay pipe
F6-F7	150	2.20	2.30	2.2	20.09	11.41	Ex strength clay pipe
F7-F8	150	2.30	2.30	2.2	19.81	11.26	Ex strength clay pipe
F8-Wet Well	150	2.30	2.80	2.2	21.11	11.99	Ex strength clay pipe
F9-Ex MH	150	1.00	2.36	2.2	27.29	15.51	Ex strength clay pipe

BEDDING FACTORS Class B 1.9; Class S 2.2; Unreinforced Concrete 4.5.

ADOPTABLE MANHOLE SCHEDULE						
MH REF	COVER LEVEL	INVERT LEVEL	PIPE DIA	DEPTH TO SOFFIT	MH TYPE	MH DIA
S1	3.120	1.710	0.225	1.185	E	1200
S2	2.950	1.425	0.225	1.300	Special	2400x2400
S2a	2.015	1.333	0.225	0.457	Special	450
S2b	2.300	1.279	0.225	0.796	Special	450
S3	2.850	1.170	0.450	1.230	Special	2400x2400
S4	2.900	1.691	0.225	0.984	E	1200
S5	3.000	1.537	0.225	1.238	E	1200
S6	2.760	1.136	0.450	1.174	E	1200
S7	2.630	1.072	0.450	1.108	E	1200
S8	2.630	1.022	0.450	1.158	E	1200
S9	2.640	0.908	0.450	1.282	E	1200
S10	2.690	0.877	0.225	1.588	Special	1800
F1	3.130	1.349	0.150	1.631	B	1200
F2	3.030	1.081	0.150	1.799	B	1500
F3	2.700	1.152	0.150	1.398	E	1200
F4	2.800	1.010	0.150	1.640	B	1200
F5	3.010	0.806	0.150	2.054	B	1200
F6	2.930	0.605	0.150	2.175	B	1200
F7	2.900	0.519	0.150	2.231	B	2100
F8	2.930	0.500	0.150	2.280	B	2100
F9	2.920	1.770	0.150	1.000	E	1200

* Type E Manhole will require double step rungs if the depth is greater than 1.0m

DRAWING TO BE READ IN CONJUNCTION WITH LONG-SECTIONS SHEET 2 OF 2 (WD/157/05)



Drawing status **Tender**

Drawing title **Long-Sections (Sheet 1 of 2)**

Project title **Residential Development Lime Walk Long Sutton**

Drawn **LC/DM** Approved

Date **18/03/11**

Scale **Horz 1:200, Vert 1:100**

Drawing No **WD/157/04B**

B) Drawing amended to suit L.C.C highway comments. LC: 29/06/11.
A) F2 upgraded to a Ø1.5m PCC Ring as per Anglian Waters Comments.
Pipe lengths/gradients amended to suit. Adoptable MH schedule revised.
Rising main upgraded to Ø1015mm ID as per Pims Pumps. Raised to Tender DM. 06-06-11
Revisions: