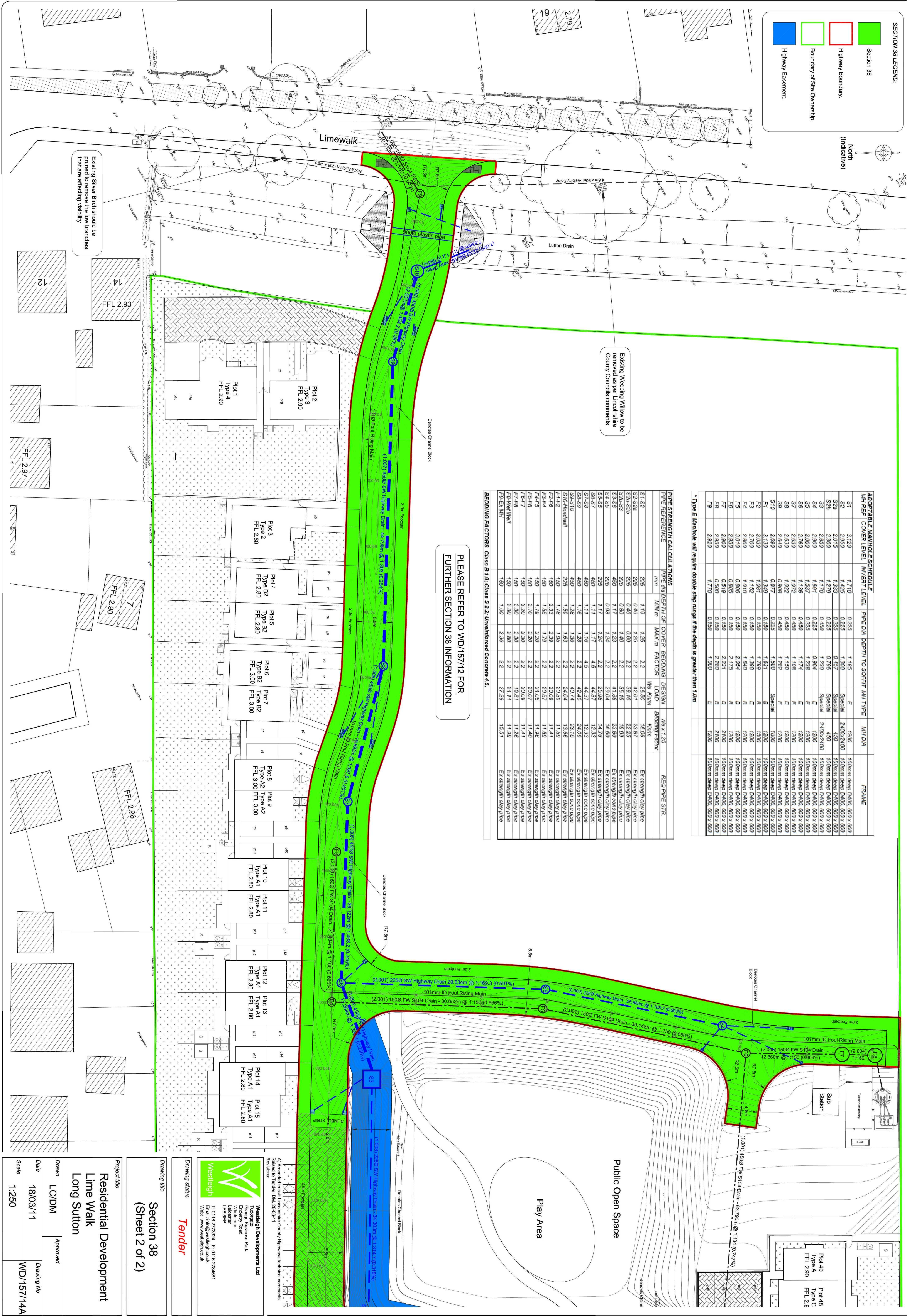
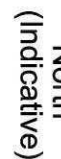


	Section 38
	Highway Boundary.
	Boundary of Site Ownership.
	Highway Easement.



ADAPTIVE MANHOLE SCHEDULE						
MH REF	COVER LEVEL	INVERT LEVEL	PIPE DIA	DEPTH TO SOFFIT	MH TYPE	MH DIA
S1	3.120	1.710	0.225	1.195	E	1200
S2	2.850	1.425	0.225	1.500	Special	2400x2400
S3a	2.550	1.130	0.225	1.805	Special	1000mm deep D400 600x 600
S3b	2.150	0.730	0.225	2.110	Special	1000mm deep D400 600x 600
S3c	1.750	0.330	0.225	2.415	Special	1000mm deep D400 600x 600
S4	2.800	1.690	0.250	1.310	Special	2400x2400
S5	2.500	1.377	0.225	0.984	E	1200
S6	2.160	1.037	0.250	1.174	E	1200
S7	2.830	1.072	0.450	1.708	E	1200
S8	2.830	1.022	0.450	1.758	E	1200
S9	2.840	0.908	0.450	1.922	E	1200
S10	2.860	0.877	0.225	1.958	Special	1000mm deep D400 600x 600
F1	3.130	1.348	0.150	1.637	B	1200
F2	3.050	1.061	0.150	1.928	B	1200
F3	2.980	0.774	0.150	2.219	B	1200
F4	3.010	1.010	0.150	1.640	B	1200
F5	3.010	0.806	0.150	2.054	B	1200
F6	2.930	0.635	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	1200
F9	2.820	1.770	0.150	1.600	E	1000mm deep D400 600x 600

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

PIPE STRENGTH CALCULATIONS							RIGID PIPE STR.
PIPE REFERENCE	PIPE DIA mm	DEPTH OF MIN m	COVER MAX m	BEDDING FACTOR	DESIGN LOAD We Kilon	We x 1.25 Bedding Factor Kilon	
S1-S2	225	1.19	1.25	2.2	26.50	15.06	Ex strength day pipe
S2-S24	225	0.46	1.25	2.2	42.01	23.87	Ex strength day pipe
S24-S2b	225	0.46	0.80	2.2	39.16	22.25	Ex strength day pipe
S2b-S3	225	0.80	1.40	2.2	39.19	19.99	Ex strength day pipe
S3-S6	450	1.17	1.23	2.2	41.88	23.60	Ex strength conc pipe
S4-S5	225	0.98	1.24	2.2	28.05	16.50	Ex strength day pipe
S5-S7	225	1.11	1.25	2.2	42.37	23.33	Ex strength day 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	45.40	24.09	Ex strength conc pipe
S9-S10	450	1.16	1.36	2.2	45.40	23.15	Ex strength conc pipe
S10-Header/Wall							Ex strength day pipe
F1-F2	225	1.59	1.93	2.2	24.04	13.66	Ex strength day pipe
F2-F6	150	1.78	1.65	2.2	20.39	11.59	Ex strength day pipe
F3-F4	150	2.33	2.39	2.2	20.57	11.41	Ex strength day pipe
F4-F5	150	1.65	1.79	2.2	20.57	11.69	Ex strength day pipe
F5-F6	150	1.79	2.20	2.2	21.05	11.96	Ex strength day pipe
F6-F7	150	2.10	2.20	2.2	20.07	11.40	Ex strength day pipe
F7-F8	150	2.30	2.30	2.2	20.09	11.41	Ex strength day pipe
F8-Wall	150	2.30	2.30	2.2	19.81	11.26	Ex strength day pipe
Ex WH	150	2.00	2.80	2.2	21.11	11.59	Ex strength day pipe
Ex WH	150	2.00	2.86	2.2	27.29	15.97	Ex strength day pipe

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

PLEASE REFER TO WD/157/12 FOR
FURTHER SECTION 38 INFORMATION

Residential Development
Lime Walk
Long Sutton

Section 38
(Sheet 2 of 2)

Drawing status:

Tender



A) Amended to suit Lincolnshire County Highways technical comments.
Raised to Tender. DM. 28-06-11
Revisions:

Drawn	LC/DM	Approved
Date	18/03/11	Drawing No
Scale	1:250	WD/157/14A