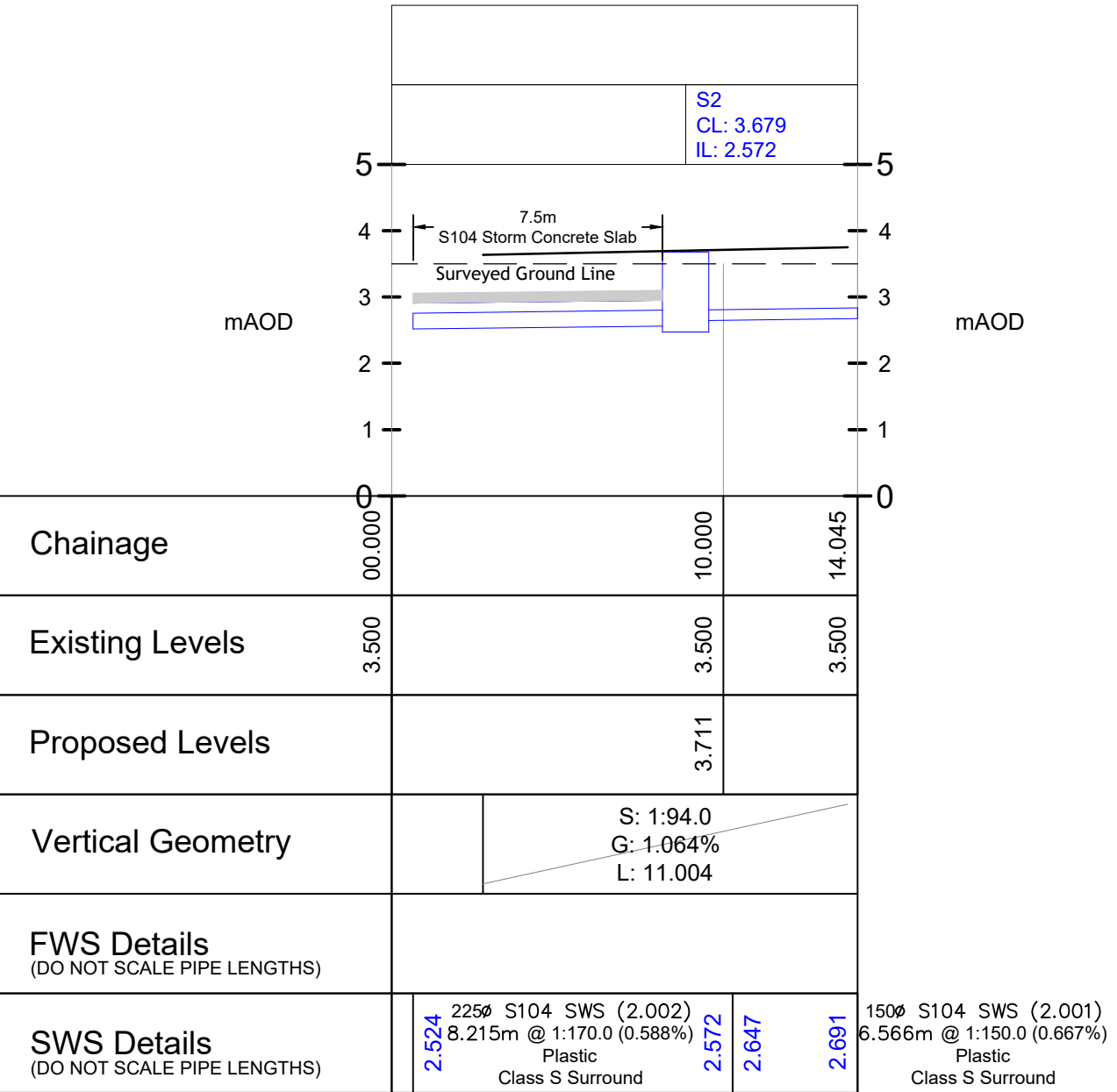
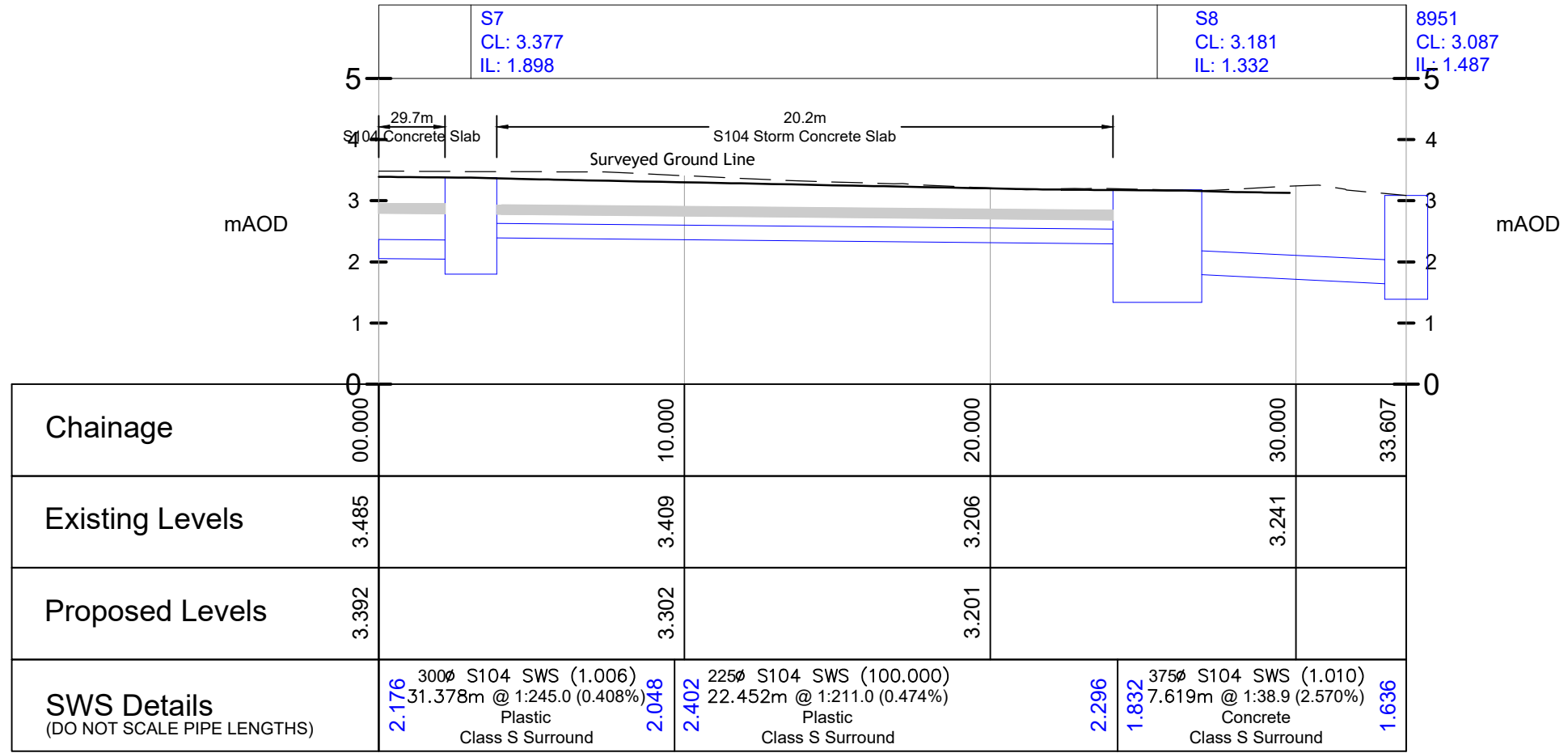


Road 1
Horiz. 1:200, Vert. 1:100



Road 2
Horiz. 1:200, Vert. 1:100



S7-S8 Emergency Bypass
Horiz. 1:200, Vert. 1:100

S104 Adoptable Manhole Schedule									
MH Ref.	Cover Level	Invert Level	Pipe Dia. (mm)	Depth to Soffit (m)	MH Type	MH Size (mm)	Frame	Cover	Easting (m)
8951	3.087	1.487	525	1.075	Existing	Existing	Existing	Existing	542845.080
S1	3.664	2.560	225	0.879	Concrete	Ø1200	600x600x150mm	D400	542770.188
S2	3.679	2.572	225	0.882	Concrete	Ø1200	600x600x150mm	D400	542760.652
S3	3.681	2.449	300	0.932	Concrete	Ø1200	600x600x150mm	D400	542768.568
S4	3.779	2.376	300	1.103	Concrete	Ø1200	600x600x150mm	D400	542780.874
S5	3.849	2.299	300	1.250	Concrete	Ø1200	600x600x150mm	D400	542797.082
S6	3.684	2.176	300	1.208	Concrete	Ø1200	600x600x150mm	D400	542815.757
S7	3.377	1.898	450	1.029	Concrete	Ø1500	600x600x150mm	D400	542823.921
S8*	3.181	1.332	375	0.974	Concrete	Ø2700	600x600x150mm	D400	542837.504

* Denotes Flow Control chamber with 500mm sump (level shown is to sump invert)

S04 Adoptable Pipe Schedule									
Pipe Ref.	Upstream IL	Downstream IL	Diameter (mm)	Distance (m)	Fall (m)	Pipe Gradient 1:X	Pipe Gradient %	Pipe Material	Pipe Bedding
CS Out - S8	1.855	1.832	450	9.781	0.023	1:425.7	0.235%	Concrete	Class S
S1 - S3	2.560	2.524	225	6.190	0.036	1:170.0	0.588%	Plastic	Class S
S2 - S3	2.572	2.524	225	8.215	0.048	1:170.0	0.588%	Plastic	Class S
S3 - S4	2.449	2.376	300	17.985	0.073	1:245.1	0.408%	Plastic	Class S
S4 - S5	2.376	2.299	300	18.883	0.077	1:245.1	0.408%	Plastic	Class S
S5 - S6	2.299	2.176	300	30.103	0.123	1:245.0	0.408%	Plastic	Class S
S6 - S7	2.176	2.048	300	31.378	0.128	1:245.0	0.408%	Plastic	Class S
S7 - CS In	1.898	1.875	450	9.262	0.023	1:410.0	0.244%	Concrete	Class S
S8 - 8951	1.832	1.636	375	7.619	0.196	1:38.9	2.570%	Concrete	Class S

Note: All pipe lengths, slopes and gradient percentages are based on centre of chamber to centre of chamber. Drainage contractor is responsible to check this information for construction purposes prior to any works

Table A: Approved Pipes Types	
Material	Sizes mm
Wavin Ultrarb or Polypipe Polysewer	150, 225 and 300
Polypipe Rigisewer	400, 450, 500, 600, 750 and 900
Concrete	375, 450, 525, 600, 675, 750, 825, 900, 975, 1050, 1125, 1200, 1350, 1500, 1800 and 2100

PIPE STRENGTH CALCULATIONS						
PIPE REFERENCE	PIPE dia mm	DEPTH OF COVER MIN m MAX m	BEDDING FACTOR	DESIGN LOAD We Kn/m	We x 1.25 Bedding Factor Kn/m	REQ PIPE STR.
S1 - S3	225	0.88	0.93	2.2	25.33	Plastic
S2 - S3	225	0.88	0.93	2.2	25.33	Plastic
S3 - S4	300	0.93	1.10	2.2	32.16	Plastic
S4 - S5	300	1.10	1.25	2.2	31.23	Plastic
S5 - S6	300	1.21	1.25	2.2	31.23	Plastic
S6 - S7	300	1.03	1.21	2.2	31.23	Plastic
S7 - S8	225	0.97	1.03	2.2	23.54	Plastic
S8 - Existing	375	0.97	1.08	2.2	23.54	Concrete
F1 - F2	375	3.77	3.85	2.2	37.07	Concrete
F2 - F3	375	3.77	4.04	2.2	37.10	Concrete
F3 - F4	375	4.04	4.24	2.2	37.40	Concrete
F4 - F5	375	4.24	4.39	2.2	37.16	Concrete
F5 - F6	375	4.39	4.55	2.2	37.21	Concrete
F6 - F7	375	4.50	4.55	2.2	37.21	Concrete
F7 - F8	375	4.30	4.50	2.2	37.21	Concrete
F8 - F9	375	4.19	4.30	2.2	37.14	Concrete
F9 - F10	375	4.19	4.56	2.2	37.21	Concrete
F10 - AW 8802	375	4.30	4.56	2.2	37.21	Concrete

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

- General Notes
- DO NOT SCALE.
 - This drawing is to be read in conjunction with all other relevant drawings and details.
 - Should there be any conflict between the details indicated on this drawing and those on other drawings the Engineer should be informed PRIOR to construction on site.
 - Until technical approval has been obtained from the relevant Authority, it should be understood that all drawings issued are Preliminary and NOT for construction. Should the Contractor commence site work prior to such approval being given it is entirely at their own risk.
 - Sketch proposals are for illustrative purposes only and as such are subject to detailed site investigation including ground conditions / contaminants, drainage, design and planning / density negotiations.
 - All dimensions are in millimetres unless otherwise stated.
 - The Farrow Walsh Consulting Designers Risk Assessments for this project must be reviewed PRIOR to the commencement of any works on site.

T5	Adoptable drainage has been updated following an increased discharge rate. Drawing has been updated to suit.	JR	BM	JD	30.09.19
T4	Adoptable pipe gradients revised to show actual falls, not rounded as per AW request	JD	BM	DM	24.09.19
T3	Bypass Long Section added to suit Anglian Water comments. Concrete cover slab show for clarity.	JD	BM	DM	30.08.19
T2	Long Sections amended to suit Anglian Water comments. Split into 104 & 185. Headwalls 1 & 2 labelled and existing Anglian SWMH shown.	CC	BM	JD	19.07.19
T1	Issued for Tender.	CC	BM	JD	04.06.19
Rev	Description of updates	Drawn	Checked	App'd	Date



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FOR TENDER

Client:
GEDA Construction Ltd.

Project:
Station Road
Long Sutton

Title:
Long Sections (Section 104)
Sheet 1 of 2

Drawn: CC
Checked: BM
Approved: JD
Date: June 2019
Scale: 1:200 @ A1

Drawing No. FW1733-D-404-01
Revision: T5