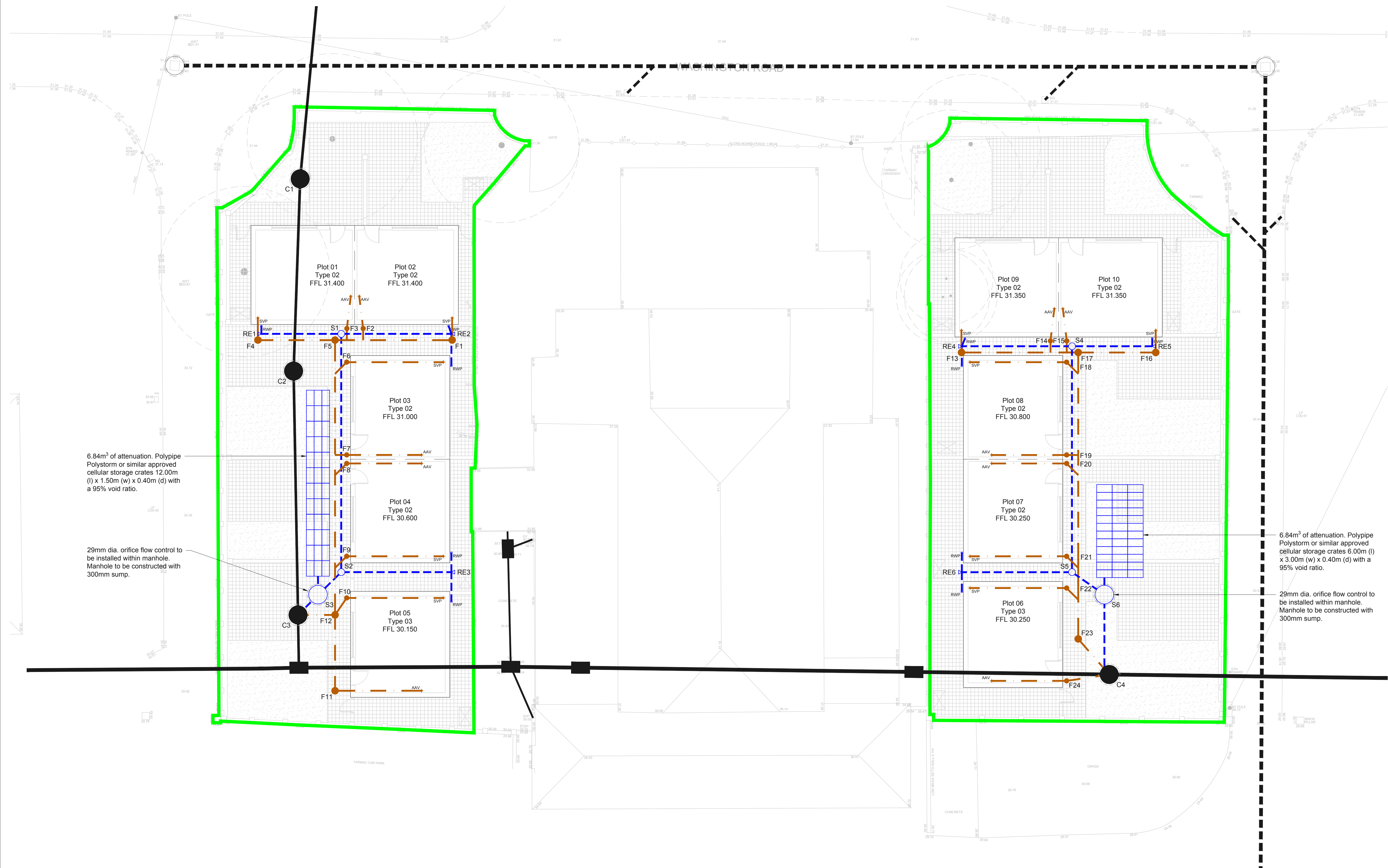




Foul Water Drainage Manhole Schedule											
Manhole Number	Cover Level (m)	Invert Level (m)	Major Pipe Diameter (mm)	Depth to Invert (m)	Manhole Type	Manhole Cover		Pipe In		Pipe Out	
						Load Class	Size (mm) (l) x (w) x (d)	Invert Level (m)	Pipe Diameter (mm)	Invert Level (m)	Pipe Diameter (mm)
F1	30.850	30.250	100	0.600	PPC	450	A15 4500 x 40	30.250	100	30.250	100
F2	30.850	30.250	100	0.600	Mini PPC	300	A15 3000 x 40	30.250	100	30.250	100
F3	30.850	30.250	100	0.600	Mini PPC	300	A15 3000 x 40	30.250	100	30.250	100
F4	30.850	30.250	100	0.600	PPC	450	A15 4500 x 40	30.250	100	30.250	100
F5	30.850	30.155	100	0.695	PPC	450	A15 4500 x 40	30.155	100	30.155	100
F6	30.850	30.250	100	0.600	Mini PPC	300	A15 3000 x 40	30.250	100	30.250	100
F7	30.850	30.250	100	0.600	Mini PPC	300	A15 3000 x 40	30.250	100	30.250	100
F8	30.450	29.850	100	0.600	Mini PPC	300	A15 3000 x 40	29.850	100	29.850	100
F9	30.450	29.850	100	0.600	Mini PPC	300	A15 3000 x 40	29.850	100	29.850	100
F10	30.000	29.400	100	0.600	Mini PPC	300	A15 3000 x 40	29.400	100	29.400	100
F11	30.000	29.400	100	0.600	PPC	450	A15 4500 x 40	29.400	100	29.400	100
F12	30.000	28.655	100	1.345	PPC	450	A15 4500 x 40	28.655	100	28.655	100
C3	30.100	28.575	150	1.525	Type E	1200	D400 600x600x100	28.625	100	28.575	150
F13	30.650	30.050	100	0.600	PPC	450	A15 4500 x 40	30.050	100	30.050	100
F14	30.650	30.050	100	0.600	Mini PPC	300	A15 3000 x 40	30.050	100	30.050	100
F15	30.650	30.050	100	0.600	Mini PPC	300	A15 3000 x 40	30.050	100	30.050	100
F16	30.650	30.050	100	0.600	PPC	450	A15 4500 x 40	30.050	100	30.050	100
F17	30.650	29.955	100	0.695	PPC	450	A15 4500 x 40	29.955	100	29.955	100
F18	30.650	30.050	100	0.600	Mini PPC	300	A15 3000 x 40	30.050	100	30.050	100
F19	30.650	30.050	100	0.600	Mini PPC	300	A15 3000 x 40	30.050	100	30.050	100
F20	30.100	29.500	100	0.600	Mini PPC	300	A15 3000 x 40	29.500	100	29.500	100
F21	30.100	29.500	100	0.600	Mini PPC	300	A15 3000 x 40	29.500	100	29.500	100
F22	30.100	29.500	100	0.600	Mini PPC	300	A15 3000 x 40	29.500	100	29.500	100
F23	30.100	29.110	100	0.990	PPC	450	A15 4500 x 40	29.110	100	29.110	100
F24	30.100	29.500	100	0.600	PPC	450	A15 4500 x 40	29.500	100	29.500	100
C4	30.100	TBC	225	TBC	TBC	1200	D400 600x600x100	TBC	225	TBC	225

Foul Water Drainage Pipe Line Schedule							
Pipe Reference	Upstream IL	Downstream IL	Pipe Diameter	Distance	Pipe Gradient (1 in x)	Pipe Material	
F1 - F5	30.250	30.155	100	7.550	79.5	Plastic	
F2 (F1 - F5)	30.250	-	100	0.750	-	Plastic	
F3 (F1 - F5)	30.250	-	100	0.750	-	Plastic	
F4 - F5	30.250	30.155	100	4.975	52.4	Plastic	
F5 - F12	30.155	28.655	100	17.733	11.8	Plastic	
F6 (F5 - F12)	30.250	-	100	0.750	-	Plastic	
F7 (F5 - F12)	30.250	-	100	0.750	-	Plastic	
F8 (F5 - F12)	29.850	-	100	0.750	-	Plastic	
F9 (F5 - F12)	29.850	-	100	0.750	-	Plastic	
F10 - F12	29.400	28.655	100	1.328	1.8	Plastic	
F11 - F12	29.400	28.655	100	4.892	6.6	Plastic	
F12 - C3	28.655	28.625	100	2.388	79.6	Plastic	

F13 - F17	30.050	29.955	100	7.528	79.2	Plastic	
F14 (F13 - F17)	30.050	-	100	0.750	-	Plastic	
F15 (F13 - F17)	30.050	-	100	0.750	-	Plastic	
F16 - F17	30.050	29.955	100	4.997	52.6	Plastic	
F17 - F23	29.955	29.110	100	18.483	21.9	Plastic	
F18 (F17 - F23)	30.050	-	100	0.750	-	Plastic	
F19 (F17 - F23)	30.050	-	100	0.750	-	Plastic	
F20 (F17 - F23)	29.500	-	100	0.750	-	Plastic	
F21 (F17 - F23)	29.500	-	100	0.750	-	Plastic	
F22 (F17 - F23)	29.500	-	100	0.750	-	Plastic	
F23 - C4	29.110	TBC	100	3.043	TBC	Plastic	
F24 - C4	29.500	TBC	100	2.781	TBC	Plastic	

Surface Water Drainage Manhole Schedule											
Manhole Number	Cover Level (m)	Invert Level (m)	Major Pipe Diameter (mm)	Depth to Invert (m)	Manhole Type	Manhole Cover		Pipe In		Pipe Out	
						Load Class	Size (mm) (l) x (w) x (d)	Invert Level (m)	Pipe Diameter (mm)	Invert Level (m)	Pipe Diameter (mm)
RE1	30.850	30.400	100	0.450	Rodding Eye	100	A15 110 oval	30.400	100	30.400	100
RE2	30.850	30.400	100	0.450	Rodding Eye	100	A15 110 oval	30.400	100	30.400	100
S1	30.850	30.325	100	0.525	PPC	450	A15 4500 x 40	30.325	100	30.325	100
RE3	30.000	29.550	100	0.450	Rodding Eye	100	A15 110 oval	29.550	100	29.550	100
S2	30.000	29.155	100	0.845	PPC	450	A15 4500 x 40	29.155	100	29.155	100
S3	30.100	28.645	100	1.455	POC	1200	B125 600x600x75	28.645	100	28.645	100
C3	30.100	28.575	100	1.525	Type E	1200	D400 600x600x100	28.575	100	28.575	100
RE4	30.650	30.200	100	0.450	Rodding Eye	100	A15 4500 x 40	30.200	100	30.200	100
RE5	30.650	30.200	100	0.450	Rodding Eye	100	A15 110 oval	30.200	100	30.200	100
S4	30.650	30.125	100	0.525	PPC	450	A15 4500 x 40	30.125	100	30.125	100
RE6	30.100	29.650	100	0.450	Rodding Eye	100	A15 110 oval	29.650	100	29.650	100
S5	30.100	29.500	100	0.600	PPC	450	A15 4500 x 40	29.500	100	29.500	100
S6	30.100	29.100	150	1.000	POC	1200	B125 600x600x75	29.100	150	29.100	150
C4	30.100	TBC	225	TBC	TBC	1200	D400 600x600x100	TBC	225	TBC	225

Surface Water Drainage Pipe Line Schedule							
Pipe Reference	Upstream IL	Downstream IL	Pipe Diameter	Distance	Pipe Gradient (1 in x)	Pipe Material	
RE1 - S1	30.400	30.325	100	5.172	69.0	Plastic	
RE2 - S1	30.400	30.325	100	7.103	94.7	Plastic	
S1 - S2	30.325	29.155	100	15.372	13.1	Plastic	
RE3 - S2	29.550	29.155	100	7.103	18.0	Plastic	
S2 - S3	29.155	28.645	100	2.086	4.1	Plastic	
S3 - C3	28.645	28.575	100	1.148	16.4	Plastic	

RE4 - S4	30.200	30.125	100	7.103	94.7	Plastic	
RE5 - S4	30.200	30.125	100	5.172	69.0	Plastic	
S4 - S5	30.125	29.500	100	14.975	23.3	Plastic	
RE6 - S5	29.650	29.500	100	7.102	47.3	Plastic	
S5 - S6	29.500	29.100	100	2.541	6.4	Plastic	
S6 - C4	29.100	TBC	100	5.150	TBC	Plastic	

Notes

- Do not scale this drawing. All dimensions must be checked/ verified on site. If in doubt ask.
- This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
- All dimensions in millimetres unless noted otherwise. All levels in metres unless noted otherwise.
- Any discrepancies noted on site are to be reported to the engineer immediately.

Key Plan

Legend

- Site Boundary
- Surface Water Sewer
- RWP Rainwater Downpipe
- Existing Combined Water Sewer
- Foul Water Sewer
- SVP Soil and Vent Pipe

Existing properties discharge to Yorkshire Water combined water sewer via 2no. 100mm dia. combined water outfalls. Approximately 56m³ discharges from each of the properties into the Yorkshire Water combined water sewer.

Yorkshire Water have confirmed a total peak discharge for storms up to and including 1 in 30 year storm events of 1.6l/s for both of the sites. The discharge is to be split to 0.8l/s for each of the developments.

E	05.07.17	Private foul and surface water drainage amended to suit revised site layout plan	SG	FR
D	11.05.17	Private foul and surface water drainage revised to suit sewer diversion	CB	FR
C	25.04.17	Domestic foul and surface water drainage layout revised to suit revised sewer diversion layout.	SG	FR
B	03.10.16	Site layout updated. Foul and surface water drainage layout revised to suit amended site layout. Manhole schedules updated	SG	FR
A	25.04.16	Surface water attenuation and flow control revised in accordance with comments received from Yorkshire Water.	SG	FR
Rev	Date	Details of issue / revision	Drw	Rev

Issues & Revisions

BWB
CONSULTANCY | ENVIRONMENT
INFRASTRUCTURE | BUILDINGS

☐ Birmingham | 0121 233 3322
☐ Leeds | 0113 233 8000
☐ London | 020 7407 3879
☐ Manchester | 0161 233 4260
☒ Nottingham | 0115 924 1100
www.bwbconsulting.com

THE COALFIELDS REGENERATION TRUST

WASHINGTON ROAD GOLDTHORPE

PROPOSED FOUL AND SURFACE WATER DRAINAGE LAYOUT

Drawn:	S. Griffiths	Reviewed:	F. Raja
BWB Ref:	LDC 2004	Date:	08-03-16 Scale@A1: 1:125
Drawing Status			
PRELIMINARY			
Project - Originator - Zone - Level - Type - Role - Number	Status	Rev	
GOL-BWB-HDG-XX-DR-D-500	D2	E	