

DO NOT SCALE

1. Cover levels are approximate only and may vary on site. Covers to suit finished levels.
2. Contractor is responsible for positioning MHs so they do not compromise line or level of kerbing or other delineation at the juncture of two surface materials.
3. PPIC manhole diameters may vary and are dependant on manufactures specification and diameter of incoming / outgoing pipes.
4. Concrete manhole diameters are dependant on nominal internal diameter of largest pipe in manhole. See Table A on Typical Manhole Details drawing.

Surface Water Drainage Manhole Schedule - Area 1 East											
MH Ref.	Cover Level	Invert Level	MH Type	MH Dia. (m)	Cover Type	D/S Pipe Length	Depth to Invert	Pipe Size (m)	Depth to Soffit	Gradient	Comments
S1	83.050	81.550	Conc.	1.200	D400	113.498	1.500	0.300	1.200	1:79.9	
S2	83.050	80.130	Conc.	1.200	D400	14.517	2.920	0.300	2.620	1:30.6	
S3	83.050	79.580	Conc.	1.350	D400	31.879	3.470	0.375	3.095	1:148.3	
S4	83.050	79.215	Conc.	1.500	D400	64.009	3.835	0.525	3.310	1:148.9	
S5	83.050	78.785	Conc.	1.500	D400	27.039	4.265	0.525	3.740	1:150.2	
S6	83.050	78.605	Conc.	1.500	D400	11.798	4.445	0.525	3.920	1:147.5	
Δ S7	82.850	78.525	Conc.	2.100	D400	80.727 (MicroDrainage) 107.163 (Actual)	4.325	0.150 (TBC by Specialist)	N/A	-1:38.6	Pumping Station Chamber at 127.41/s
S8	83.050	80.615	Conc.	1.500	D400	5.000	2.435	0.300	2.135	1:60	
S9	83.050	81.550	Conc.	1.200	D400	54.406	1.500	0.300	1.200	1:55.5	
S10	83.050	80.495	Conc.	1.350	D400	126.057	2.555	0.375	2.180	1:137.8	
S11	83.050	81.400	Conc.	1.350	D400	54.303	1.650	0.450	1.200	1:99.6	
S12	83.050	80.855	Conc.	1.350	D400	10.421	2.195	0.450	1.745	1:99.2	
S13	83.050	80.750	Conc.	1.350	D400	32.220	2.300	0.450	1.850	1:99.1	
S14	83.050	80.425	Conc.	1.350	D400	13.376	2.625	0.450	2.175	1:11.8	
S15	83.050	81.425	Conc.	1.350	D400	70.094	1.625	0.375	1.250	1:150.7	
S16	83.050	80.960	Conc.	1.350	D400	11.171	2.090	0.375	1.715	1:89.4	
S17	83.050	80.835	Conc.	1.350	D400	13.780	2.215	0.375	1.840	1:14	
S18	83.050	79.850	Conc.	1.350	D400	54.162	3.200	0.375	2.825	1:59.2	
S19	83.050	81.625	Conc.	1.350	D400	67.326	1.425	0.225	1.200	1:70.1	
S20	83.050	80.665	Conc.	1.200	D400	28.067	2.385	0.225	2.160	1:100.2	
S21	83.050	80.310	Conc.	1.200	D400	38.579	2.740	0.300	2.440	1:100.2	
S22	83.050	81.625	Conc.	1.200	D400	58.191	1.425	0.225	1.200	1:60	
S23	83.050	80.580	Conc.	1.200	D400	56.797	2.470	0.300	2.170	1:124.8	
S24	83.050	80.125	Conc.	1.200	D400	20.184	2.925	0.300	2.625	1:126.2	
S25	83.050	79.965	Conc.	1.200	D400	17.117	3.085	0.300	2.785	1:15.1	
S26	83.050	81.550	Conc.	1.200	D400	19.233	1.500	0.150	1.350	1:85.5	
S27	83.050	81.625	Conc.	1.200	D400	72.799	1.425	0.225	1.200	1:51.3	

△ All Pumping Station information is subject to change based on detailed design stage.

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Surface Water Drainage Manhole Schedule - Area 1 West											
MH Ref.	Cover Level	Invert Level	MH Type	MH Dia. (m)	Cover Type	D/S Pipe Length	Depth to Invert	Pipe Size (m)	Depth to Soffit	Gradient	Comments
S1	81.300	79.800	Conc.	1.200	D400	31.545	1.500	0.300	1.200	1:100.1	
S2	81.300	79.485	Conc.	1.200	D400	36.927	1.815	0.300	1.515	1:150.7	
S3	81.300	79.240	Conc.	1.200	D400	18.520	2.060	0.300	1.760	1:15.9	
S4	81.300	78.075	Conc.	1.200	D400	20.115	3.225	0.300	2.925	1:50.3	
S5	81.300	77.600	Conc.	2.100	D400	29.189	3.700	0.300	3.400	1:26.5	Flow Control Chamber at 40.00/s. MH to be constructed on existing stub
S6	81.300	79.875	Conc.	1.200	D400	31.454	1.425	0.225	1.200	1:56.2	
S7	81.300	79.875	Conc.	1.200	D400	31.403	1.425	0.225	1.200	1:18.2	
S8	81.300	79.875	Conc.	1.200	D400	70.164	1.425	0.150	1.275	1:58.5	
S9	81.250	78.525	Conc.	1.350	D400	84.422	2.725	0.375	2.350	1:99.9	
S10	81.300	77.680	Conc.	1.350	D400	10.604	3.620	0.375	3.245	1:132.6	

Area 1 Reference Drawings

CMIQ-BGP-01-XX-DR-C-52-01101 - Impermeable Areas Plan
 CMIQ-BGP-01-XX-DR-C-52-01102 - Flood Exceedance Flow Route
 CMIQ-BGP-01-XX-DR-C-52-01130 - Drainage Plan
 CMIQ-BGP-01-XX-DR-C-52-01131 - Manhole Schedule

Issued for Planning	JJH	P02	JC	23.03.2022
FIRST DRAFT	JJH	P01	JC	05.11.2021
AMENDMENT	BY	REV	CHK	DATE

Rev P = Preliminary T = Tender C = Construction LCI = Last Construction Issue

In instances where this drawing completes or partly completes a contract, Billingham George & Partners will consider that its product has been validated, unless in a period not exceeding 90 working days, the client advises to the contrary.



Billinghurst George & Partners

CIVIL & STRUCTURAL ENGINEERS | BUILDING SURVEYORS

1st Floor, Wellington House, Wellington Court, Stockton-on-Tees, TS18 3TA
T 01642 876 470 @BGPconsulting E consulting@bgp-teesside.co.uk - W www.bgp-consulting.co.uk

Client
Copeland Borough Council

Project	Project No.
Cleator Moor Innovation Quarter	21T2034

Drawing Title
Area 1 - Manhole Schedule

Drawn	Date	Checked	Date	Size	Scale	Class.	Rev.
JJH	Nov 2021	JC	Nov 2021	A1	1:1000	52	P02

Location	Originator	Volume	Level	Type	Role	Unique No.
CMIQ	BGP	01	XX	DR	C	01131

File Reference
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