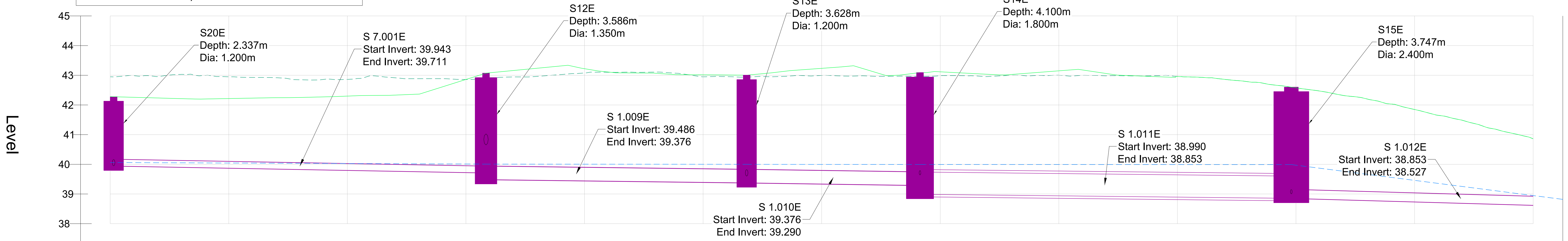
M3C_PR_PLATEAUEAST_ADOPTED_001
SCALE: H 1:250,V 1:100. DATUM: 38.000


Level
45
44
43
42
41
40
39
38
S20E
Depth: 2.337m
Dia: 1.200m
S 7.001E
Start Invert: 39.943
End Invert: 39.711
S12E
Depth: 3.586m
Dia: 1.350m
S 1.009E
Start Invert: 39.486
End Invert: 39.376
S13E
Depth: 3.628m
Dia: 1.200m
S 1.010E
Start Invert: 39.376
End Invert: 39.290
S14E
Depth: 4.100m
Dia: 1.800m
S 1.011E
Start Invert: 38.990
End Invert: 38.853
S15E
Depth: 3.747m
Dia: 2.400m
S 1.012E
Start Invert: 38.853
End Invert: 38.527

Cover and Invert	42.28 39.94	43.07 39.49	43.00 39.38	43.09 38.99	42.60 38.85

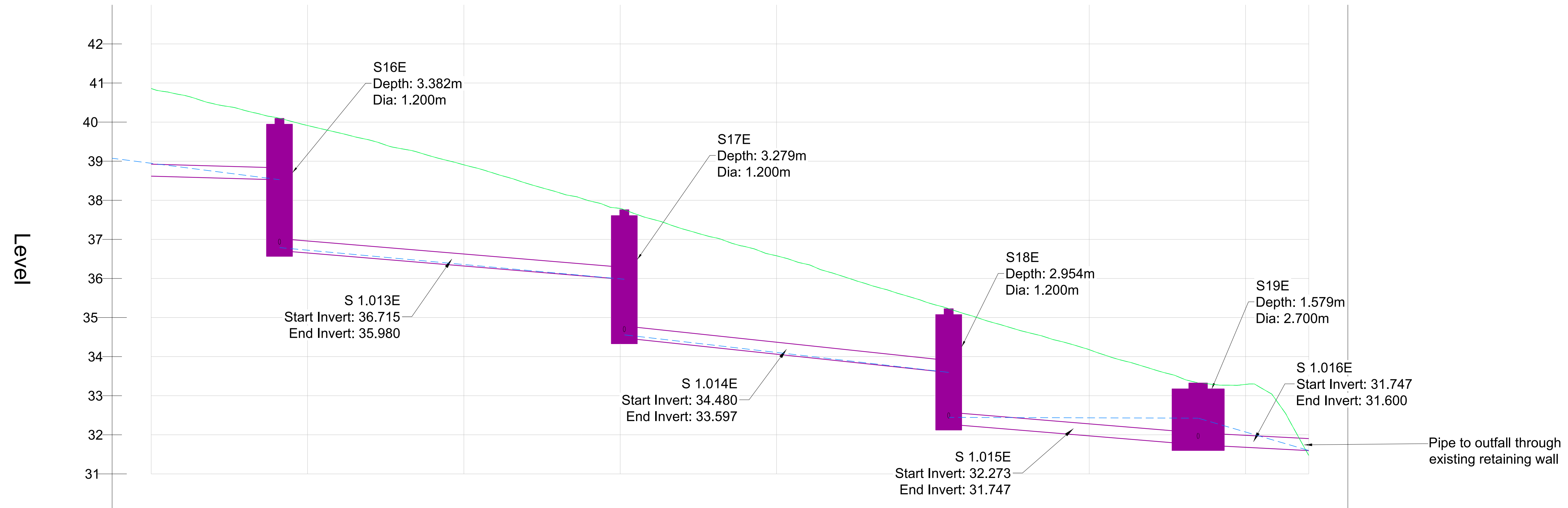
Pipe Length	2D = 31.401 3D = 31.402	2D = 21.983 3D = 21.984	2D = 14.617 3D = 14.617	2D = 31.313 3D = 31.313	2D = 28.601 3D = 28.603
Pipe Dia.	225mm	450mm	450mm	750mm	300mm
Pipe Gradient	0.74%	0.50%	0.59%	0.44%	1.14%
Bedding and Surround	Class S	Class S	Class S	Class S	Class S

Chainage	Existing Ground Levels	Proposed Ground Levels
00.000	42.949	42.280
02.000	42.987	42.257
04.000	42.955	42.235
05.000	43.006	42.223
06.000	43.031	42.212
08.000	42.996	42.201
10.000	42.948	42.216
12.000	42.928	42.230
14.000	42.918	42.244
15.000	42.886	42.246
16.000	42.848	42.252
18.000	42.860	42.272
20.000	42.863	42.299
22.000	42.987	42.320
24.000	42.916	42.332
25.000	42.884	42.349
26.000	42.885	42.365
28.000	42.887	42.607
30.000	42.857	42.859
32.000	42.909	43.084
34.000	42.945	43.161
35.000	42.943	43.199
36.000	42.963	43.237
38.000	43.024	43.314
40.000	43.077	43.222
42.000	43.102	43.110
44.000	43.105	43.079
45.000	43.101	43.076
46.000	43.108	43.068
48.000	43.061	43.020
50.000	42.947	43.015
52.000	42.954	43.009
54.000	42.943	43.016
55.000	42.959	43.053
56.000	42.952	43.093
58.000	42.993	43.175
60.000	42.995	43.234
62.000	42.973	43.295
64.000	42.973	43.163
65.000	42.963	43.043
66.000	42.967	42.995
68.000	42.966	43.076
70.000	42.985	43.117
72.000	42.985	43.075
74.000	42.957	43.034
75.000	42.979	43.013
76.000	43.000	43.028
78.000	42.991	43.089
80.000	43.001	43.150
82.000	42.998	43.179
84.000	42.982	43.060
85.000	42.987	43.004
86.000	42.980	42.989
88.000	42.988	42.957
90.000	42.961	42.961
92.000	42.930	42.932
94.000	42.862	42.862
95.000	42.823	42.823
96.000	42.780	42.780
98.000	42.680	42.680
100.000	42.578	42.578
102.000	42.470	42.469
104.000	42.319	42.319
105.000	42.277	42.277
106.000	42.201	42.201
108.000	42.032	42.032
110.000	41.847	41.847
112.000	41.650	41.650
114.000	41.487	41.487
115.000	41.378	41.378
116.000	41.254	41.254
118.000	41.066	41.066
120.000	40.860	40.860

S 7.001E to S 1.015E

Scale: H 1:250, V 1:100

M3C_PR_PLATEAUEAST_ADOPTED_001_2
SCALE: H 1:250,V 1:100. DATUM: 31.000


Level
42
41
40
39
38
37
36
35
34
33
32
31
S16E
Depth: 3.382m
Dia: 1.200m
S 1.013E
Start Invert: 36.715
End Invert: 35.980
S17E
Depth: 3.279m
Dia: 1.200m
S 1.014E
Start Invert: 34.480
End Invert: 33.597
S18E
Depth: 2.954m
Dia: 1.200m
S 1.015E
Start Invert: 32.273
End Invert: 31.747
S19E
Depth: 1.579m
Dia: 2.700m
S 1.016E
Start Invert: 31.747
End Invert: 31.600
Pipe to outfall through
existing retaining wall

Cover and Invert	40.10 36.72	37.76 34.48	35.23 32.27	33.33 31.75

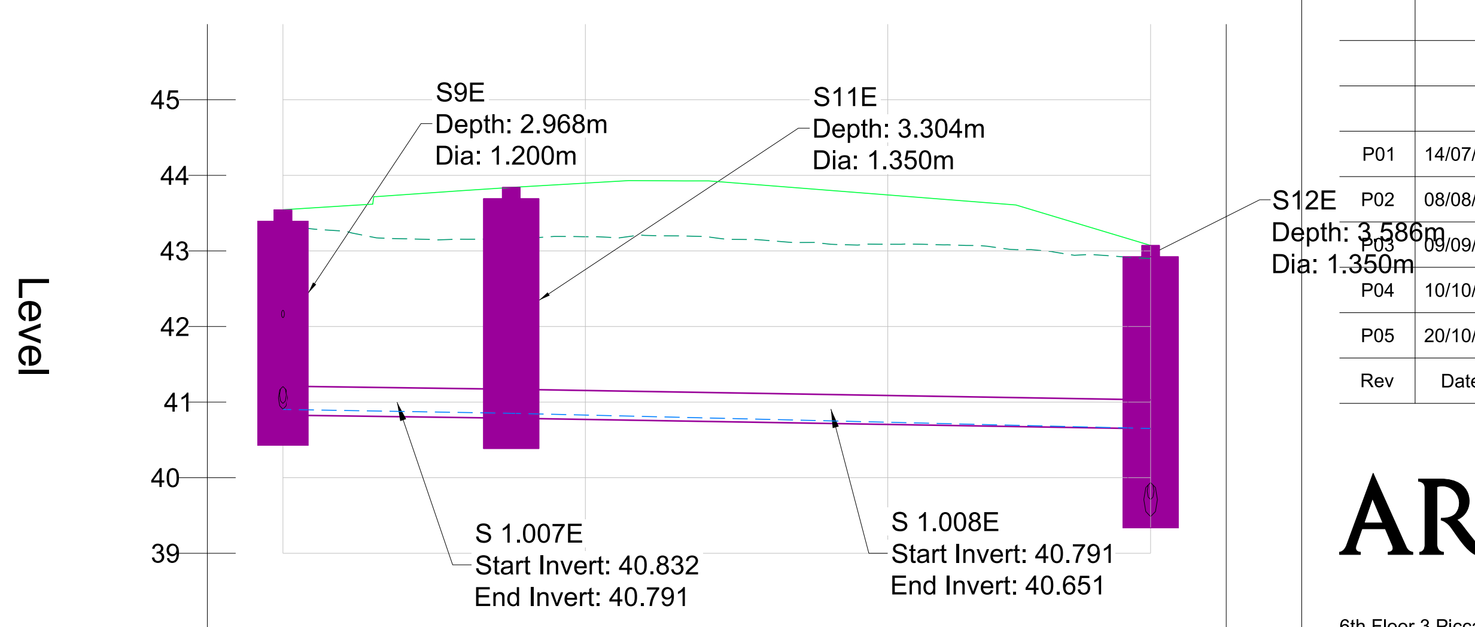
Pipe Length	2D = 28.601 3D = 28.603	2D = 22.057 3D = 22.069	2D = 20.749 3D = 20.768	2D = 15.956 3D = 15.965	2D = 7.075 3D = 7.076
Pipe Dia.	300mm	300mm	300mm	300mm	300mm
Pipe Gradient	1.14%	3.33%	4.26%	3.30%	2.08%
Bedding and Surround	Class S	Class S	Class S	Class S	Class A

Chainage	Existing Ground Levels	Proposed Ground Levels
120.000	40.860	40.860
122.000	40.692	40.692
124.000	40.468	40.468
125.000	40.394	40.394
126.000	40.296	40.296
128.000	40.116	40.116
130.000	39.913	39.913
132.000	39.726	39.726
134.000	39.538	39.538
135.000	39.413	39.413
136.000	39.319	39.319
138.000	39.117	39.117
140.000	38.907	38.907
142.000	38.681	38.681
144.000	38.435	38.435
145.000	38.318	38.318
146.000	38.206	38.206
148.000	37.987	37.987
150.000	37.789	37.789
152.000	37.521	37.521
154.000	37.267	37.267
155.000	37.151	37.151
156.000	37.048	37.048
158.000	36.814	36.814
160.000	36.580	36.580
162.000	36.357	36.357
164.000	36.085	36.085
165.000	35.955	35.955
166.000	35.828	35.828
168.000	35.591	35.591
170.000	35.342	35.342
172.000	35.099	35.099
174.000	34.853	34.853
175.000	34.738	34.738
176.000	34.625	34.625
178.000	34.407	34.407
180.000	34.178	34.178
182.000	33.915	33.915
184.000	33.685	33.685
185.000	33.570	33.570
186.000	33.434	33.434
188.000	33.285	33.285
190.000	33.290	33.290
192.000	32.861	32.861
194.000	31.503	31.503

S 7.001E to S 1.015E continuation

Scale: H 1:250, V 1:100

M3C_PR_PLATEAUEAST_ADOPTION_002_2
SCALE: H 1:250,V 1:100. DATUM: 39.000


Level
45
44
43
42
41
40
39
S9E
Depth: 2.968m
Dia: 1.200m
S11E
Depth: 3.304m
Dia: 1.350m
S12E
Depth: 3.586m
Dia: 1.350m
S 1.007E
Start Invert: 40.832
End Invert: 40.791
S 1.008E
Start Invert: 40.791
End Invert: 40.651

Cover and Invert	43.54 40.58	43.84 40.54	43.07 39.49

Pipe Length	2D = 7.549 3D = 7.549	2D = 21.142 3D = 21.142
Pipe Dia.	375mm	375mm
Pipe Gradient	0.54%	0.66%
Bedding and Surround	Class S	Class S

Chainage	Existing Ground Levels	Proposed Ground Levels
00.000	43.325	43.545
02.000	43.263	43.595
04.000	43.161	43.744
05.000	43.149	43.772
06.000	43.155	43.800
08.000	43.172	43.851
10.000	43.188	43.897
12.000	43.205	43.929
14.000	43.189	43.926
15.000	43.152	43.898
16.000	43.139	43.866
18.000	43.093	43.804
20.000	43.088	43.741
22.000	43.080	43.678
24.000	43.023	43.615
25.000	43.008	43.516
26.000	42.953	43.396
28.000	42.914	43.155
28.691	42.900	43.072

S 1.007E to S 1.008E

Scale: H 1:250, V 1:100

Notes

1. All dimensions are in metres unless stated otherwise.

2. All levels are in metres above Ordnance Datum unless stated otherwise.

3. Do not scale from this drawing.

4. Drainage construction materials:
   - Surface Water Drainage pipes - Polyethylene (for pipes over 600mm dia), Polypropylene (for pipes over 300mm dia) and PVC (for pipes under 300mm dia) in accordance with BS13476 to have BSI kitemark status (certified to WIS 4-35-01)
   - Foul Drainage Pipes - Vitrified Clay in accordance with BS EN 295
   - Manholes - Precast Concrete
   - Inspection Chambers - Polypropylene in accordance with BS 7158

Key

—	Proposed Surface
┈	Existing Surface
┈	Proposed 30 year (with surcharged outfall) surface water level
—	Proposed SW Pipes Adopted
▮	Proposed SW Structures Adopted

Rev	Date	Description	By	Chkd	Appd	Auth
P01	14/07/22	WS4 Issue to BAM	DH	DH	RG	---
P02	08/08/22	Issued for Technical Approval	ES	DH	RG	---
P03	09/09/22	Issued for S104 Application	ES	DH	RG	---
P04	10/10/22	Full WS4 Issue	ES	DH	RG	---
P05	20/10/22	Issued for Full WS4	ES	DH	RG	---

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Client
MANCHESTER CITY COUNCIL
bam nuttall

Project Title
Victoria North HIF Infrastructure & Enabling Works

Drawing Title
Long Section Surface Water Pipes
S 7.001E to S 1.015E & S 1.007E to S 1.008E

Scale at A1	AS SHOWN	Arup Job No	282022-00
Role	Civil - Drainage		
Suitability	S4 - Issued for Construction Approval		

Rev	By	Chkd	Appd	
P05	ES	DH	RG	---
	Date 19/10/22	Date 20/10/22	Date 20/10/22	---

Name

VNIF	- ARP -	00	- YYY -	DR	- CD -	0035
Project	Originator	Volume	Location	Type	Role	Number

Do not scale

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