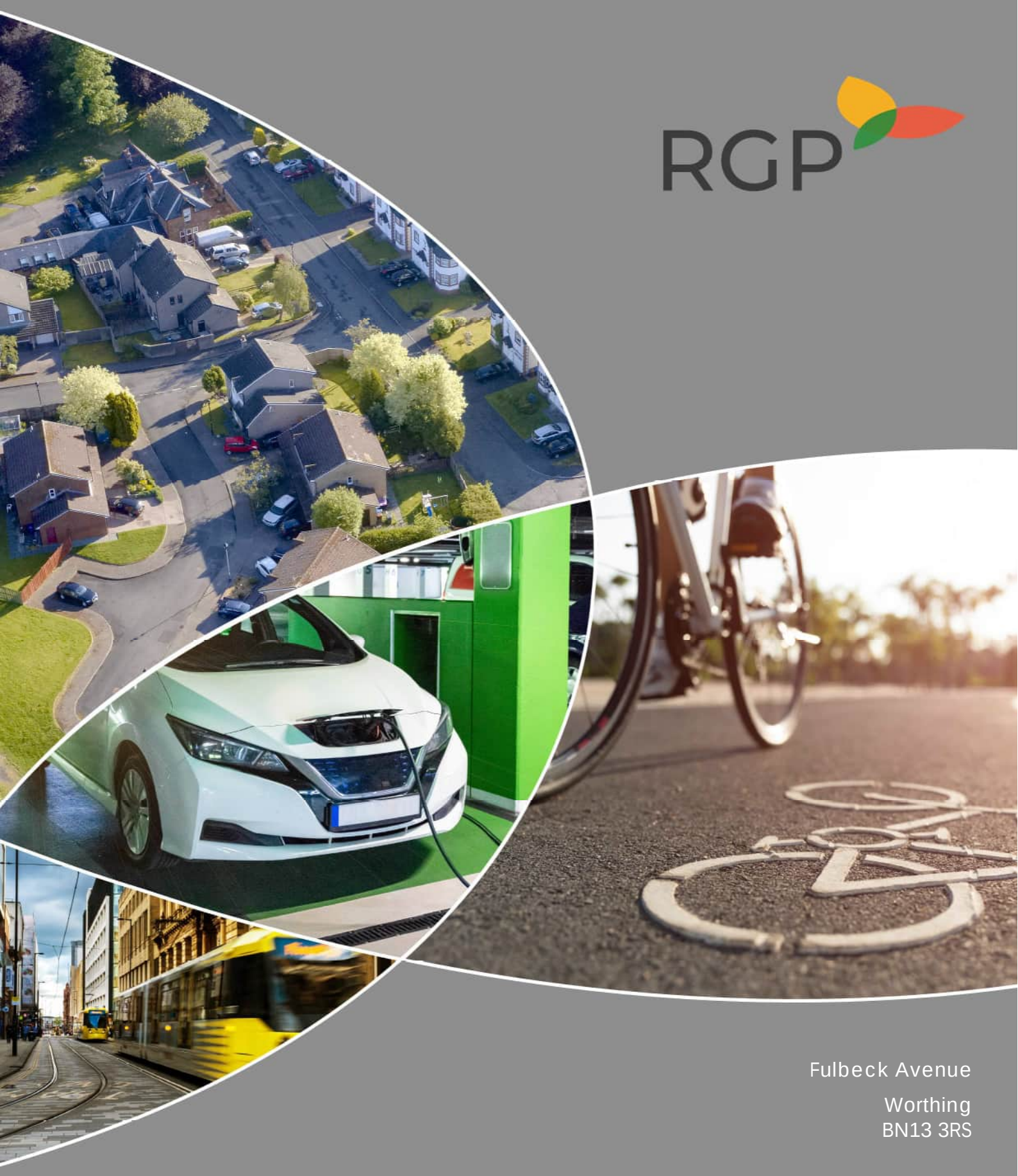


Fulbeck Avenue

Worthing
BN13 3RS

PHASE 2 DRAINAGE VERIFICATION REPORT

For Residential Development

On behalf of BoKlok

6707-RGP-ZZ-00-RP-C-0502 P2

June 2025

www.rgp.co.uk

DOCUMENT CONTROL

Project:	Fulbeck Avenue For Residential Development
Project Location:	Worthing BN13 3RS
Report Type:	Phase 2 Drainage Verification Report
Client:	BoKlok
Reference:	6707-RGP-ZZ-00-RP-C-0502 P2

Document Checking

	Name	Date	Signature
Author:	D. Booth	06/06/2025	Debby Booth Digitally signed by Debby Booth DN: cn=Debby Booth, c=GB, o=RGP, email=d.booth@rgp.co.uk Date: 2025.06.06 09:22:34 +01'00'
Checked by:	A.Stijne	06/06/2025	Digitally signed by Anne Stijne Date: 06.06.2025
Approved by:	D. Booth	06/06/2025	Debby Booth Digitally signed by Debby Booth DN: cn=Debby Booth, c=GB, o=RGP, email=d.booth@rgp.co.uk Date: 2025.06.06 09:22:53 +01'00'

Status

Issue	Date	Amendment	Issued by
1	21/05/25	First issue	D.Booth
2	6/06/2025	Update to include verification of materials and as-built survey	D.Booth
3			
4			
5			

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1 INTRODUCTION

1.1.1 RGP has been commissioned by BoKlok (the 'Client') to provide a Surface Water Drainage Verification Report for the residential development of 5 blocks of flats at Fulbeck Avenue, Worthing, BN13 3RS, to support the discharge of planning condition 26 (decision notice ref: AWDM/0166/20).

1.1.2 Planning condition 26 states:

Immediately following implementation of the approved surface water drainage system and prior to occupation of any part of the development, the developer/applicant shall provide the local planning authority with as-built drawings of the implemented scheme together with a completion report prepared by an independent engineer that confirms that the scheme was built in accordance with the approved drawing/s and is fit for purpose. The scheme shall thereafter be maintained in perpetuity.

1.1.3 The Drainage verification Report 6707-RGP-ZZ-00-RP-C-0500 (March 2023) verified the drainage that was constructed as part of Phase 1. Phase 1 includes the drainage for Block 1, 2 and 3

1.1.4 This report is in relation to Phase 2 of the development and the associated drainage, refer to the phasing plan in Appendix 1. Phase 2 relates to the drainage for Block 4 and Block 5. Block 5 has not been constructed, but the drainage manholes and pipelines have been constructed.

1.1.5 The aim of this report is to review the installed drainage associated with Phase 2 of this development, to confirm whether the construction of the key drainage components has been carried out in accordance with the approved design.

1.1.6 The approved drawings (refer to Appendix 2) to which RGP have referred are:

- FBA-STC-SW-BG-DR-D-GA-5611 Rev P10 – Proposed Drainage Layout Sheet 1 of 3
- FBA-STC-SW-BG-DR-D-GA-5612 Rev P10 – Proposed Drainage Layout Sheet 2 of 3
- FBA-STC-SW-BG-DR-D-GA-5613 Rev P10 – Proposed Drainage Layout Sheet 3 of 3
- FBA-STC-SW-BG-DR-D-XX-5621 Rev P07 – Typical Construction Details Sheet 1
- FBA-STC-SW-BG-DR-D-XX-5622 Rev P07 – Typical Construction Details Sheet 2
- FBA-STC-SW-BG-DR-D-XX-5623 Rev P06 – Typical Construction Details Sheet 3
- FBA-STC-SW-BG-SH-D-XX-6620 Rev P07 – Manhole Schedules Surface Water

2 VERIFICATION REPORT DETAILS

2.1 Report Author

2.1.1 This Surface Water Drainage Verification Report has been prepared by Debby Booth CENG MICE, a Chartered Civil Engineer with over 20 years' experience in Civil Engineering, Highway Design, Residential Development and Drainage Design.

2.1.2 Debby is a Technical Director at RGP, who were not involved in drainage matters at earlier stages of this project and who are independent of the developer and their sub-contractors.

2.2 Site Inspection

2.2.1 A site inspection was carried out by Debby Booth on 29th April 2025.

2.2.2 Appendix 3 includes the photos taken of the drainage assets during the site visit.

3 DRAINAGE INSPECTION

3.1 Key Drainage Components Inspected

3.1.1 The surface water and foul drainage chambers were opened and inspected.

3.1.2 The manholes were constructed well, with very few defects.

3.1.3 The following snagging list was provided to the Contractor as a result of the site visit:

1. SWC2 had a small amount of silt in it, this was cleaned at the time of the site inspection.

2. SWS5 Non Return Flap valve missing, photos received on the 05/06/2025 show this as being fitted, refer to Appendix 6 for these photos.

3. SWS4 – Flow control Missing, photos received on the 05/06/2025 show this as being fitted, refer to Appendix 6 for these photos.

4. SWS10 – Needed cleaning, photographic evidence was sent the next day, showing the manhole to be clean and operational.

3.1.4 All other drainage assets that were inspected where visually to be in good new condition, with no defects.

3.1.5 The drainage connectivity was visually inspected to be as per the design drawings, and all pipes were seen to be flowing in the correct direction.

3.1.6 Gullies

All installed gullies that were accessible were inspected. All gullies were installed correctly in line with the approved drawings and operational.

3.1.7 Permeable Paving

Permeable paving had been installed and from the surface appeared correct.

3.1.8 Attenuation Tank

This component was fully installed and backfilled at the time of inspection.

The CCTV shows the connections and the view from the inlets, which appears correct.

4 PIPE CONDITION SURVEY

4.1 CCTV Condition Survey

4.1.1 AB pipeline Services Ltd undertook a condition survey of the as built drainage pipes on the 22nd April 2025. The summary report is included in Appendix 4.

4.1.2 The following defects were identified:

4.1.3 SW12 to Attenuation tank - Open Joint Medium – Severity Grade 2



4.1.4 SW05 to SW06 HW – open joint Medium – Severity grade 2



4.1.5 The defects have been reported back to the developer.

5 AS-BUILT RECORDS

5.1 As-Built Review

5.1.1 The following As-Built topographical survey drawing has been provided;

(i) 9RR5 - Boklok - Worthing - Drain + Kerb Asbuilt - 18.09.24 (Included within Appendix 5)

5.1.2 The levels and locations of the drainage assets broadly match the designed levels.

5.1.3 The invert level at FW01 shows a design level of 11.000m, the as-surveyed level is 12.03m.

(i) This manhole is the upstream chamber of the Southern Water existing foul sewer diversion.

(ii) This manhole is constructed on the existing foul drainage and the inspection of the chamber shows the existing invert level has been maintained.

(iii) The downstream levels still have appropriate connectivity and the gradient is suitable for foul flows, illustrated in Figure 1.

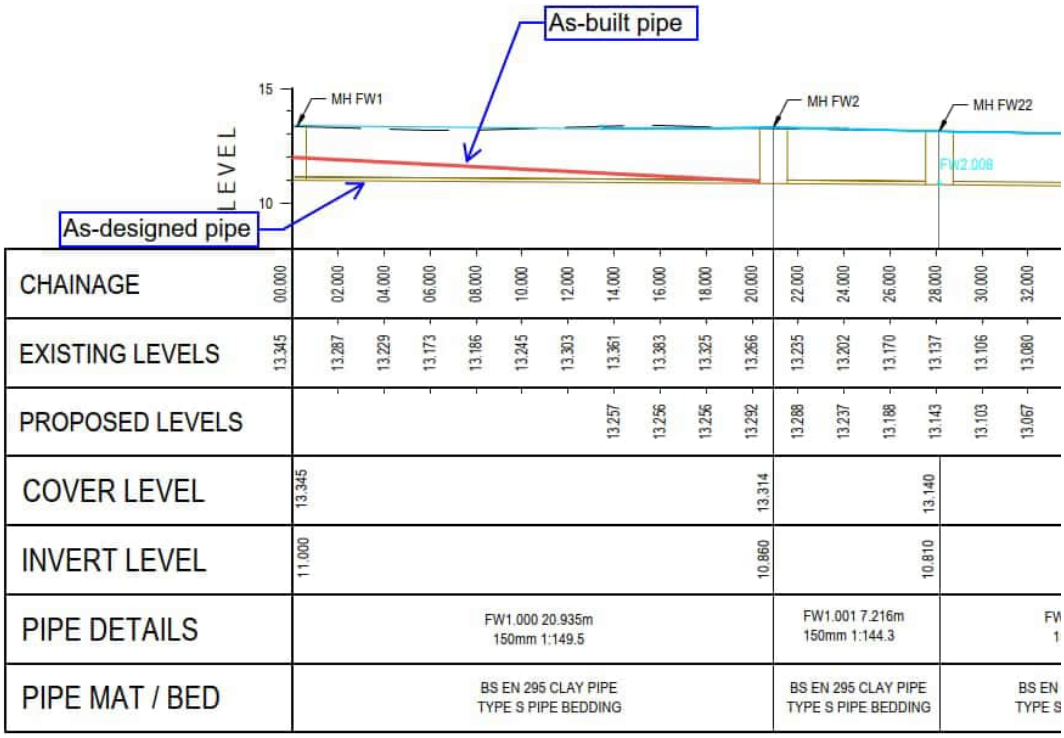


Figure 1 - Long-section showing as-built FW1.000 levels

5.1.4 The levels and locations provided for the other drainage assets broadly match the designed levels.

6 MATERIALS VERIFICATION

6.1.1 The following information / datasheets on materials have been provided

(i) Gullies C of C

(ii) Hep clay specs

(iii) Hep safety

(iv) Hepworth Clay DoPs-Full set-2021

(v) Hepworth Clay Fired Clay Products & Materials MSDS

(vi) Hepworth Clay Jointing Lubricant SL1 & SL2 from June 2017 MSDS

(vii) Natural Aggregates - H&S Data sheet v2 aggregates

(viii) Pipes large - Certificate of Conformity

(ix) Pipes Small - Certificate of Conformity

(x) Ready Mixed Concrete - H&S Data sheet v1 RMC & Floor Screed

(xi) SuperSleve Range Product Details

(xii) Triton Order

(xiii) wrekin-access-solutions-highway-gully-grates-d400-dght0d44242kh (1)

(xiv) wrekin-access-solutions-highway-gully-grates-d400-dght0d64242kh

(xv) wrekin-access-solutions-highway-manhole-covers-d400-dmt0d41267kh (3)

(xvi) wrekin-access-solutions-highway-manhole-covers-d400-dmt0d46060kh (5)

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(xxi) wrekin-access-solutions-highway-manhole-covers-d400-dmt0d66767kh (3)

(xxii) wrekin-access-solutions-tristar-gully-grates-c250-dgh0c33832k1 (12)

(xxiii) wrekin-access-solutions-tristar-gully-grates-d400-dgh0d44337kt (3)

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(xxv) wrekin-access-solutions-tristar-manhole-covers-d400-dmt0d46060kt (6)

(xxvi) wrekin-access-solutions-tristar-manhole-covers-d400-dmt0d46767kt (4)

(xxvii) wrekin-access-solutions-tristar-manhole-covers-d400-dmt0d66060kt

(xxviii) wrekin-access-solutions-tristar-manhole-covers-d400-dmt0d66767kt (4)

(xxix) ACO HexDrain Brochure

(xxx) ACO Q-Brake Datasheet (1)

(xxxi) ACO RainDrain brochure

(xxxii) DN1200 Easibase and WW manholes and slabs

(xxxiii) DN1500 & 1800 Chambers WW and Slabs 270220

(xxxiv) DN1500 and 1800 Easibase WW and slabs

6.1.2 These data sheets are all in accordance with the construction details required.

6.1.3 Permeable Paving – Not provided

6.1.4 Downstream Defender – Not provided

6.1.5 Attenuation Tank SW(S)3 TRITON STORM WATER SOLUTIONS – partially provided.

6.1.6 SW(S)4 (Hydrobrake)- Not provided, photo of product indicates the correct product was used. Refer to Appendix 6 for photos.

6.1.7 SW(S)5 Non Return Valve - Not provided, photo of product indicates the correct product was used. Refer to Appendix 6 for photos.

7 CONCLUSION

7.1.1 Following a site inspection and a review of the approved drawings, as-built survey drawing and CCTV survey, it has been found that the key drainage components inspected have been installed in line with the approved drawings.

7.1.2 The defects are limited to the grade 2 defects on the cctv pipe survey. The industry standard is that all grade 3 defects and above are repaired.

7.1.3 In conclusion, the defects are limited to the grade 2 pipe defects.

7.1.4 The levels for the diversion of the foul drainage are different to the design drawings, but the site inspection shows that it ties in with the existing as-built level of the foul sewer and the level change will not affect the operation of the sewer.

7.1.5 The other key components inspected appear to be installed in line with the approved drawings and the drainage networks where shown to be operating.

APPENDIX 1 FULBECK OCCUPATION PHASING PLAN

Legend

Existing
Attenuation Basin

GA-5009

GA-5010

Oaksheath Gardens

Malth House Way

Cornfield Way

Varey Road

Fulbeck Avenue

Moore Close

Callon Close

Wet Ditch

Drain

Lake

Path

Pond

Northbrook
Farm Caravan
& Motorhome
Club Site

Northbrook Barn
Community Centre

Squadron Drive

El Sub Sta

BLOCK 1
FFL +13.190

BLOCK 2
FFL +13.100

BLOCK 3
FFL +13.050

BLOCK 4
FFL +13.260

BLOCK 5
FFL +13.150

Turning
Head

Community Hub
For details refer to
FBA-NTA-XX-XX-DR-L-PL-5011

Play Glade
For details refer to
FBA-NTA-XX-XX-DR-L-PL-5012

EXISTING LUMINAIRE
RELOCATED AS PART
OF HIGHWAY WORKS
(BY OTHERS)

EXISTING LUMINAIRE
INSTALLED AS PART OF
HIGHWAY WORKS
(BY OTHERS)

Phase 1B - March 2023
- Blocks 1 and 2
- 1 Bin & 2 Cycle Stores
- 27 Parking Spaces

Phase 1A - December 2022
- Block 3
- Highway access and turning heads.
- 2 Bin & 1 Cycle Stores
- Electrical Substation
- 45 Parking Spaces

Phase 2 - April 2023
- Blocks 4 and 5
- 2 Bin & 2 Cycle Stores
- 87 Parking Spaces
- Play Area

KEY TO PHASES:

PHASE 1A - Block 3

PHASE 1B - Blocks 1 & 2

PHASE 2 - Blocks 4 & 5

NOTE:

The following general items will be completed and installed (within the extents of that highlighted phase) prior to the occupation date of that phase:
- All landscaping and biodiversity works.
- All means of enclosure - fences/railings etc.
- All footpaths (including bridges) and roads.
- All Electric Vehicle Charging Points.
- All Streetlighting.
- Any Highways landscaping reinstatement works.

All other phase specific items listed on drawing.

BoKlok

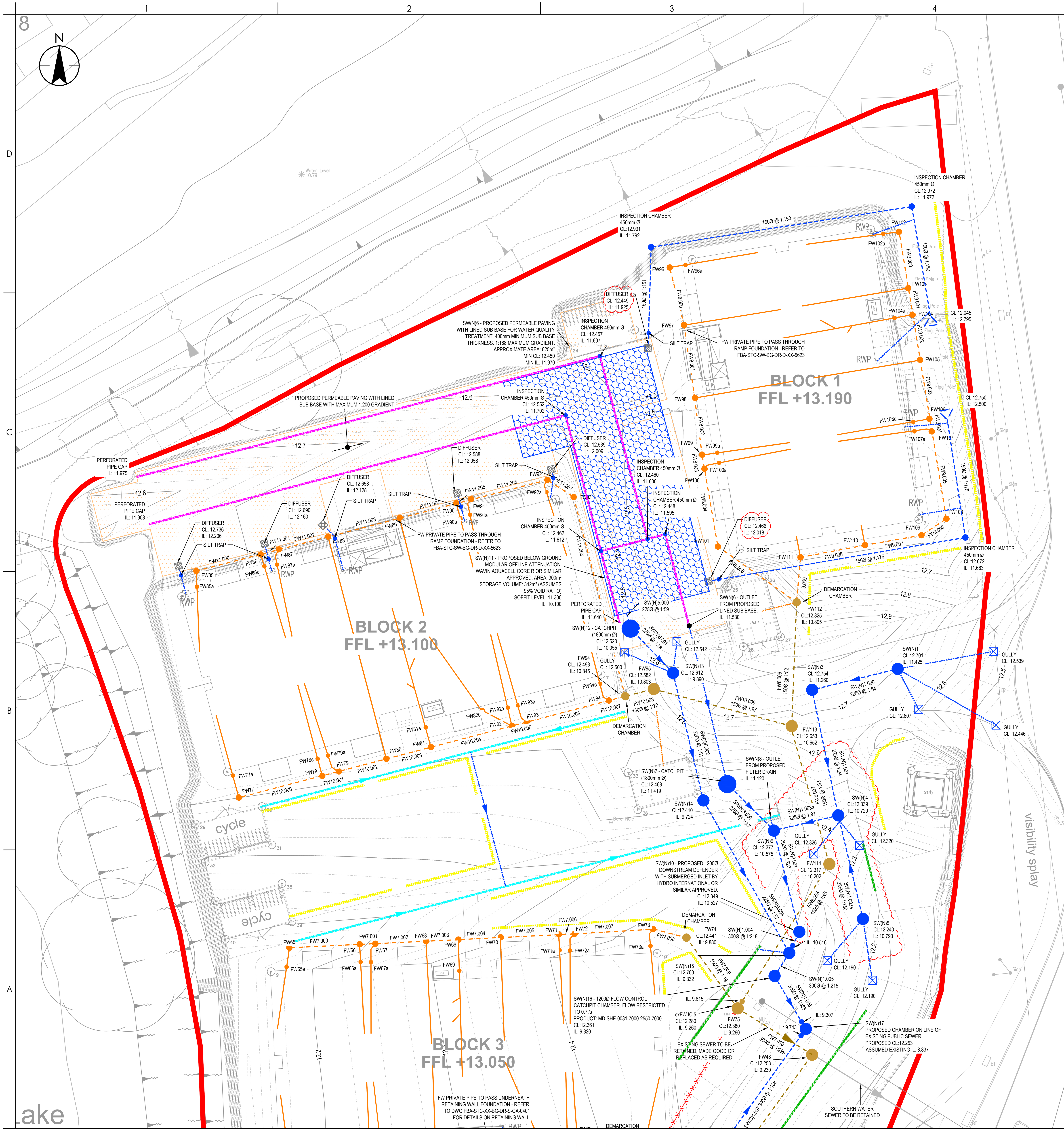
Fulbeck Avenue, Worthing

Occupation Phasing Plan

Scale: 1:500@A1
Date: 18th August 2022
Status: For Planning Condition Discharge

0 5 10 15 25 50

APPENDIX 2 APPROVED DRAWINGS



KEY

- EXISTING SURFACE WATER DRAINAGE
- EXISTING FOUL WATER DRAINAGE
- EXISTING DRAINAGE TO BE ABANDONED
- PROPOSED SURFACE WATER DRAINAGE
- PROPOSED PRIVATE FOUL WATER CHAMBERS
- PROPOSED 300mm INSPECTION CHAMBERS AT 0.6m BELOW PROPOSED GROUND LEVEL
- PROPOSED 708mm SKELETANK DIFFUSER WITH 150mm Ø PIPE INLET
- PROPOSED FOUL WATER DRAINAGE
- PROPOSED PRIVATE SURFACE WATER LINEAR DRAIN
- PROPOSED PRIVATE SURFACE WATER FILTER DRAIN
- PROPOSED ADOPTABLE SURFACE WATER ATTENUATION
- PROPOSED PERMEABLE PAVING WITH LINED SUB BASE. REFER TO PLAN FOR THICKNESS
- SITE BOUNDARY
- FLOW DIRECTION
- RWP — PROPOSED RAIN WATER PIPE
- GULLY — PROPOSED GULLY WITH 100mm CONNECTION PIPE
- PROPOSED HEADWALL/OUTFALL
- PROPOSED PERFORATED PIPE (150mm Ø)
- LINEAR ROOT PROTECTION - REFER TO LANDSCAPE ARCHITECTURAL PLANS FOR DETAILS

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION.
   - FBA-STC-SW-BG-DR-D-GA-5614-5616 CATCHMENT PLAN
   - FBA-STC-SW-BG-DR-D-SE-6646-6647 DRAINAGE LONGSECTIONS
   - FBA-STC-SW-BG-DR-D-XX-5621-5623 TYPICAL CONSTRUCTION DETAILS
   - FBA-STC-SW-BG-SH-D-XX-6603-6605 SCHEDULES PRIVATE FOUL WATER DRAINAGE
   - FBA-STC-SW-BG-SH-D-XX-6620-6624 MANHOLE & PIPE SCHEDULES
   - FBA-STC-SW-BG-DR-D-SE-6652 HEADWALL DETAIL
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7. ALL DIFFUSERS ARE LOCATED 530mm BELOW SURFACE OF PAVING UNLESS SPECIFIED OTHERWISE. . SEE DETAIL FBA-STC-SW-BG-SH-D-XX-5621
8. ALL SW PIPEWORK TO BE 150MM DIA IF NOT SHOWN

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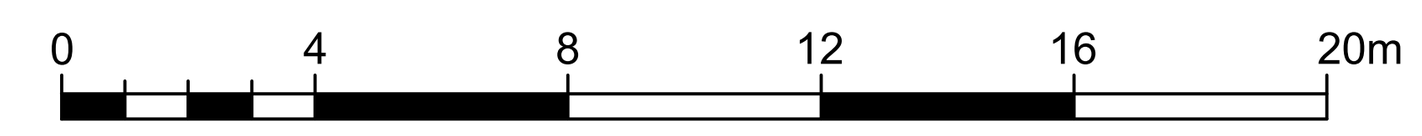
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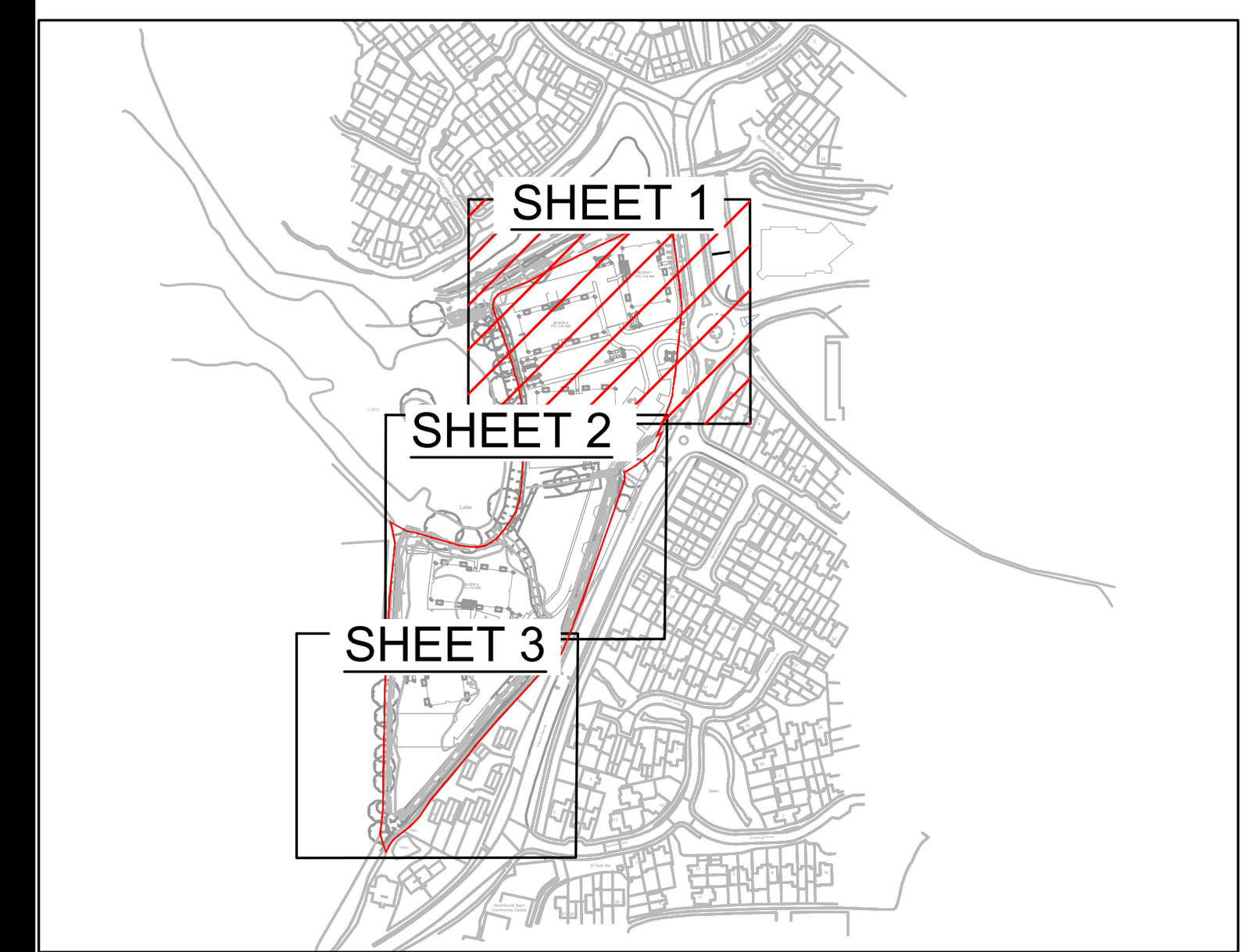
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SCALE 1:200



KEY PLAN
SCALE: 1:5000

Issued/Revision	By	Appd	YYYY.MM.DD
P10 DIFFUSER LEVELS UPDATED	BC	SB	2022.06.17
P09 MASTERPLAN UPDATED	PJ	SEB	2022.05.09
P08 DIFFUSER LEVELS ADDED	ER	SEB	2022.04.05
P07 UPDATED FOLLOWING LLFA COMMENTS	PJ	LT	2022.03.16
P06 FURTHER REVISION FOLLOWING ICOSA COMMENTS	ER	LT	2022.02.21
P05 FURTHER REVISION FOLLOWING ICOSA & LLFA COMMENTS	LT	LT	2022.01.10
P04 UPDATED FOLLOWING GROUND MODEL UPDATES	ER	-	2021.12.21
P03 REVISED FOLLOWING LLFA & CLIENT COMMENTS	LT	-	2021.11.19
P02 STAGE 4 ISSUE	ER	-	2021.10.12
P01 STAGE 3 ISSUE	ER	-	2021.09.21

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Issue Status

CONSTRUCTION ISSUE

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Client/Project Logo

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BOKLOK

FULBECK AVENUE, WORTHING

Title
PROPOSED DRAINAGE LAYOUT
SHEET 1 OF 3

Project No. 332510223

Scale 1:200

Revision **P10**

Drawing No. **FBA-STC-SW-BG-DR-D-GA-5611**

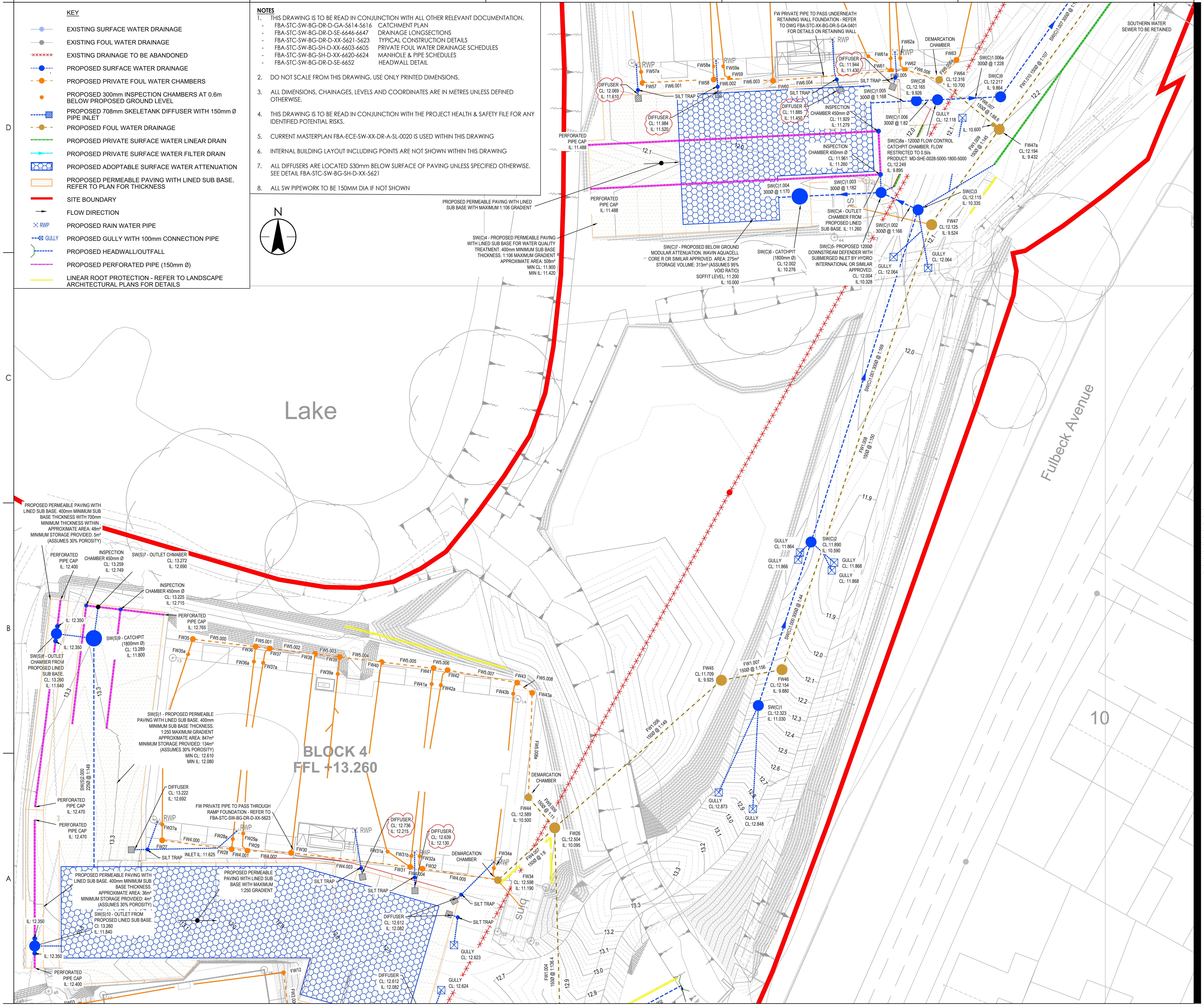
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KEY

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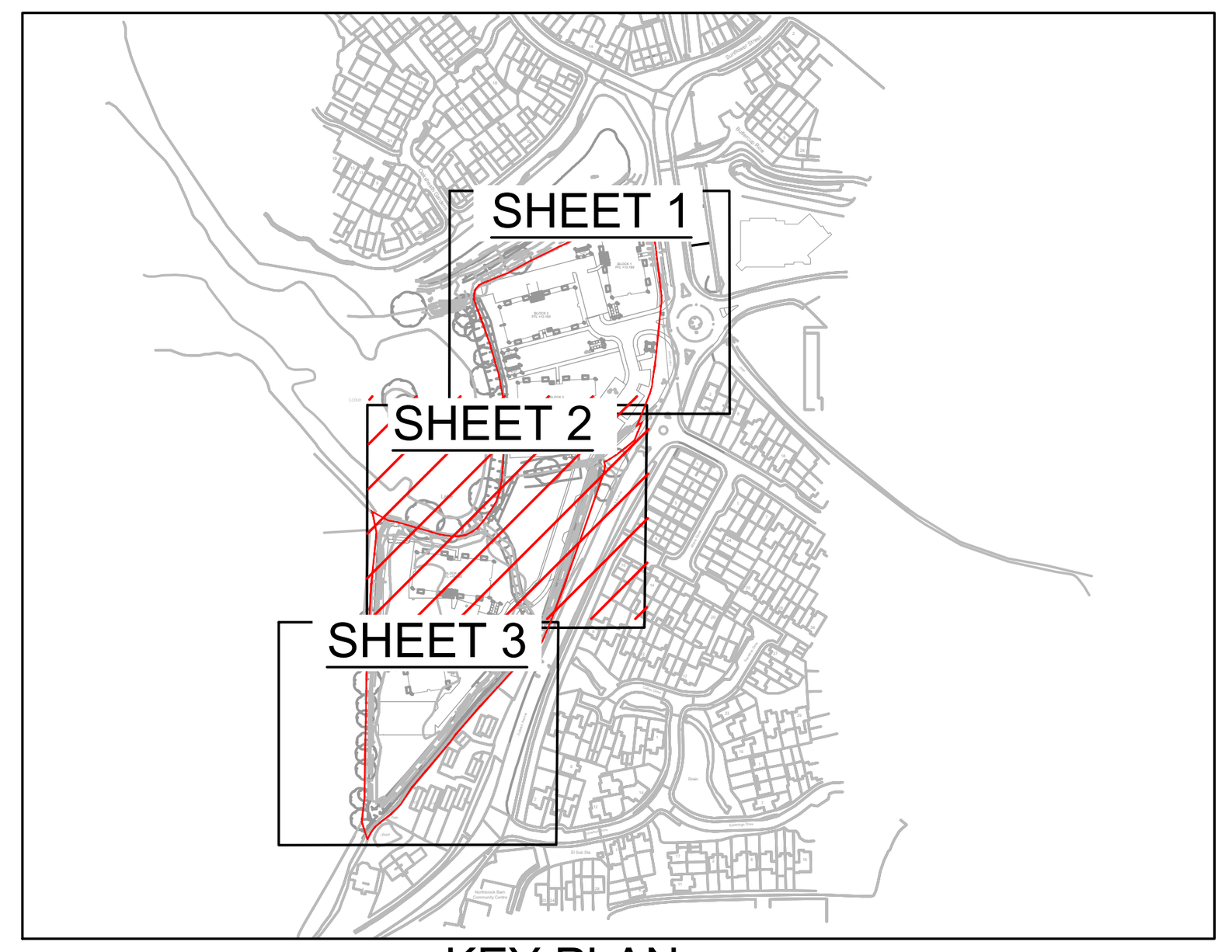
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0 4 8 12 16 20m
SCALE 1:200



KEY PLAN
SCALE: 1:5000

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P04	UPDATED FOLLOWING GROUND MODEL UPDATES	ER	-	2021.12.21
P03	REVISED FOLLOWING LLFA & CLIENT COMMENTS	LT	-	2021.11.19
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P01	STAGE 3 ISSUE	ER	-	2021.09.21

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Client/Project
BOKLOK

FULBECK AVENUE, WORTHING

Title
PROPOSED DRAINAGE LAYOUT
SHEET 2 OF 3

Project No. 332510223
Scale 1:200
Revision P10
Drawing No. FBA-STC-SW-BG-DR-D-GA-5612

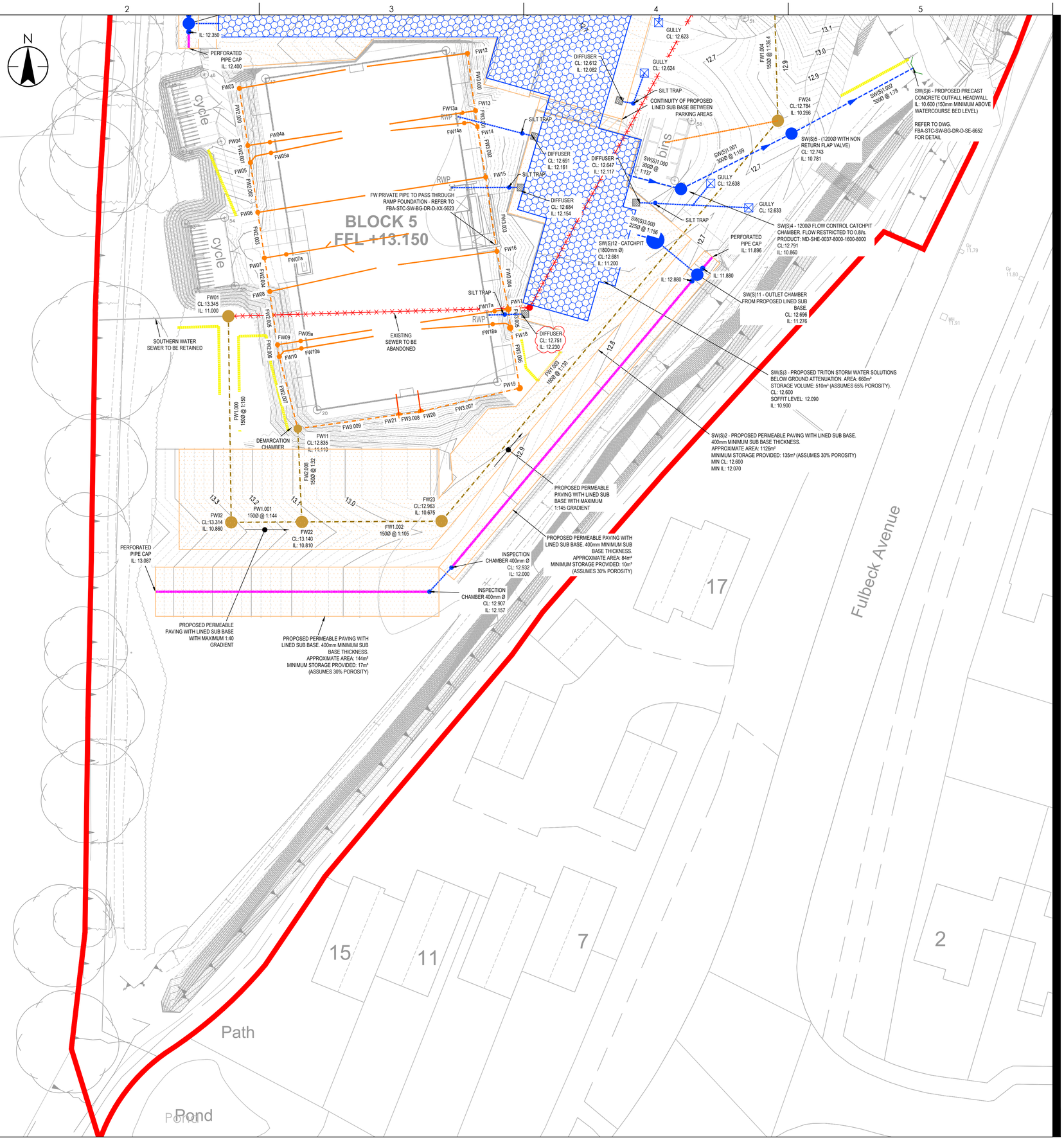
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ORIGINAL SHEET - ISOA1 j:\49212 - fulbeck avenue, worthing\technical\drawings\drainage\fba-stc-sw-bg-dr-d-ga-5611-5613 drainage layout

KEY

- EXISTING SURFACE WATER DRAINAGE
- EXISTING FOUL WATER DRAINAGE
- EXISTING DRAINAGE TO BE ABANDONED
- PROPOSED SURFACE WATER DRAINAGE
- PROPOSED PRIVATE FOUL WATER CHAMBERS
- PROPOSED 300mm INSPECTION CHAMBERS AT 0.6m BELOW PROPOSED GROUND LEVEL
- PROPOSED 708mm SKELETANK DIFFUSER WITH 150mm Ø PIPE INLET
- PROPOSED FOUL WATER DRAINAGE
- PROPOSED PRIVATE SURFACE WATER LINEAR DRAIN
- PROPOSED PRIVATE SURFACE WATER FILTER DRAIN
- PROPOSED ADOPTABLE SURFACE WATER ATTENUATION
- PROPOSED PERMEABLE PAVING WITH LINED SUB BASE. REFER TO PLAN FOR THICKNESS
- SITE BOUNDARY
- FLOW DIRECTION
- RWP — PROPOSED RAIN WATER PIPE
- GULLY — PROPOSED GULLY WITH 100mm CONNECTION PIPE
- PROPOSED HEADWALL/OUTFALL
- PROPOSED PERFORATED PIPE (150mm Ø)
- LINEAR ROOT PROTECTION - REFER TO LANDSCAPE ARCHITECTURAL PLANS FOR DETAILS

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION.
   - FBA-STC-SW-BG-DR-D-GA-5614-5616 CATCHMENT PLAN
   - FBA-STC-SW-BG-DR-D-SE-6646-6647 DRAINAGE LONGSECTIONS
   - FBA-STC-SW-BG-DR-D-XX-5621-5623 TYPICAL CONSTRUCTION DETAILS
   - FBA-STC-SW-BG-SH-D-XX-6603-6605 PRIVATE FOUL WATER DRAINAGE SCHEDULES
   - FBA-STC-SW-BG-SH-D-XX-6620-6624 MANHOLE & PIPE SCHEDULES
   - FBA-STC-SW-BG-DR-D-SE-6651 HEADWALL DETAIL
2. DO NOT SCALE FROM THIS DRAWING, USE ONLY PRINTED DIMENSIONS.
3. ALL DIMENSIONS, CHAINAGES, LEVELS AND COORDINATES ARE IN METRES UNLESS DEFINED OTHERWISE.
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PROJECT HEALTH & SAFETY FILE FOR ANY IDENTIFIED POTENTIAL RISKS.
5. CURRENT MASTERPLAN FBA-ECE-SW-XX-DR-A-SL-0020 IS USED WITHIN THIS DRAWING
6. INTERNAL BUILDING LAYOUT INCLUDING POINTS ARE NOT SHOWN WITHIN THIS DRAWING
7. ALL DIFFUSERS ARE LOCATED 530mm BELOW SURFACE OF PAVING UNLESS SPECIFIED OTHERWISE. . SEE DETAIL FBA-STC-SW-BG-SH-D-XX-5621
8. ALL SW PIPEWORK TO BE 150MM DIA IF NOT SHOWN



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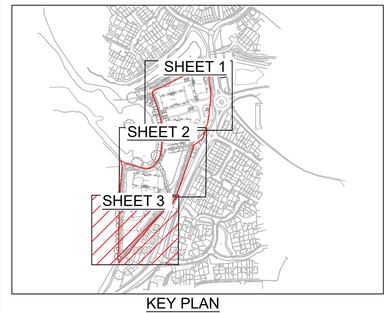
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0 4 8 12 16 20m

SCALE 1:200



KEY PLAN
SCALE: 1:5000

Issued/Revision	By	Appd	YYYY.MM.DD
P10 DIFFUSER LEVELS UPDATED	BC	SB	2022.06.17
P09 MASTERPLAN UPDATED	PJ	SEB	2022.05.09
P08 DIFFUSER LEVELS ADDED	ER	SEB	2022.04.05
P07 UPDATED FOLLOWING LLFA COMMENTS	PJ	LT	2022.03.16
P06 FURTHER REVISION FOLLOWING ICOSA COMMENTS	ER	LT	2022.02.21
P05 FURTHER REVISION FOLLOWING ICOSA & LLFA COMMENTS	LT	LT	2022.01.10
P04 UPDATED FOLLOWING GROUND MODEL UPDATES	ER	-	2021.12.21
P03 REVISED FOLLOWING LLFA & CLIENT COMMENTS	LT	-	2021.11.19
P02 STAGE 4 ISSUE	ER	-	2021.10.12
P01 STAGE 3 ISSUE	ER	-	2021.09.21
	ER	ER	LT	2021.09.20
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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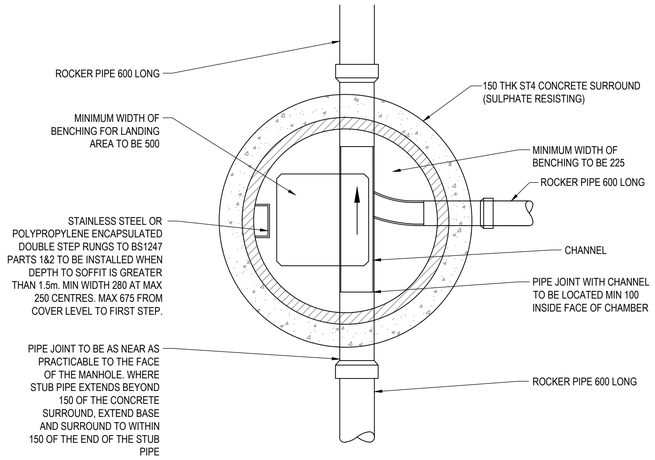
FULBECK AVENUE, WORTHING

Title

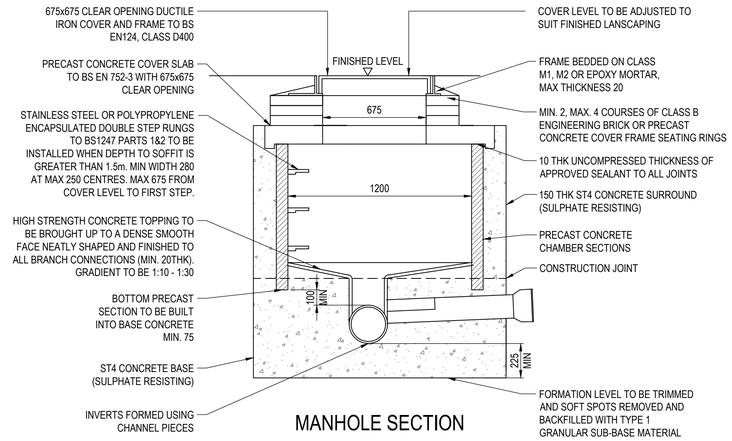
PROPOSED DRAINAGE LAYOUT
SHEET 3 OF 3

Project No.	Scale
332510223	1:200
Revision	Drawing No.
P10	**FBA-STC-SW-BG-DR-D-GA-5613**

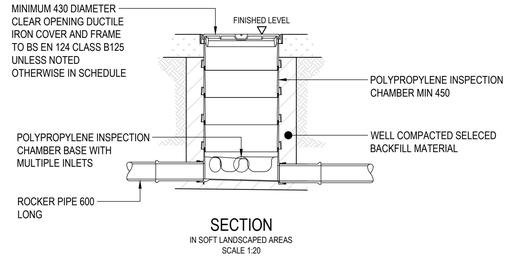
Plotted: 17.06.2022 10:22:44 - LT 10.03.01 PM By: Crumm, Brad
C:\Users\brad.crumm\Documents\Projects\Worthing\Technical\Drawings\Working\fba-stc-sw-bg-dr-d-ga-5611-5613 drainage layout



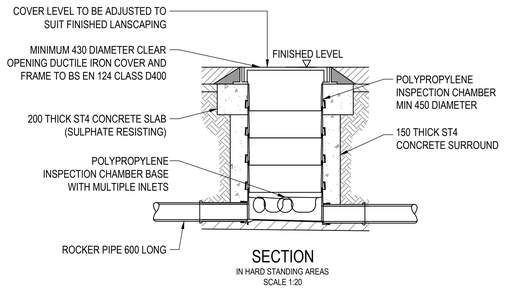
MANHOLE PLAN



MANHOLE SECTION



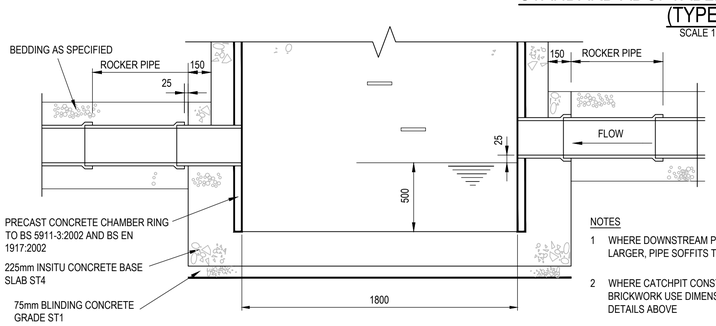
SECTION
IN SOFT LANDSCAPED AREAS
SCALE 1:20



SECTION
IN HARD STANDING AREAS
SCALE 1:20

STANDARD ADOPTABLE MANHOLE DETAIL (TYPE B)

SCALE 1:20



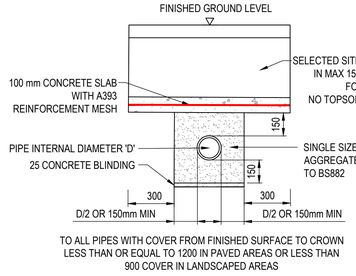
NOTES

1 WHERE DOWNSTREAM PIPE IS LARGER, PIPE SOFFITS TO BE LEVEL

2 WHERE CATCHPIT CONSTRUCTION IS BRICKWORK USE DIMENSIONS AND DETAILS ABOVE

CATCHPIT VARIATION TO ADOPTABLE CONCRETE MANHOLE DETAIL

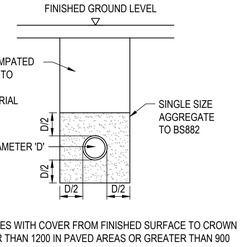
SCALE 1:20



TO ALL PIPES WITH COVER FROM FINISHED SURFACE TO CROWN LESS THAN OR EQUAL TO 1200 IN PAVED AREAS OR LESS THAN 900 COVER IN LANDSCAPED AREAS

REINFORCED CONCRETE SLAB PIPE BEDDING AND PROTECTION

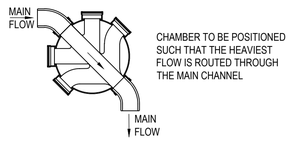
SCALE 1:20



TO ALL PIPES WITH COVER FROM FINISHED SURFACE TO CROWN GREATER THAN 1200 IN PAVED AREAS OR GREATER THAN 900 COVER IN LANDSCAPED AREAS

TYPE S PIPE BEDDING

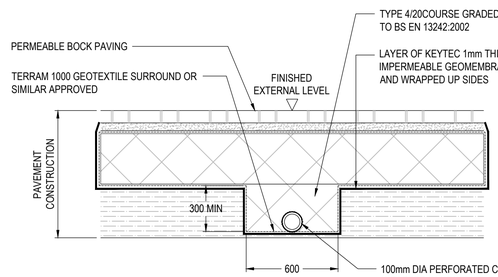
SCALE 1:20



PLAN

PRIVATE PLASTIC INSPECTION CHAMBER (STANDARD)

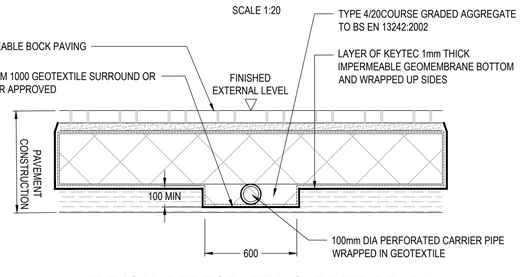
SCALE 1:20



TYPICAL PERFORATED CARRIER DRAIN

FOR ALL CAR PARKING AREAS DENOTED ON GENERAL ARRANGEMENT PLANS EXCEPT FOR CENTRAL NETWORK

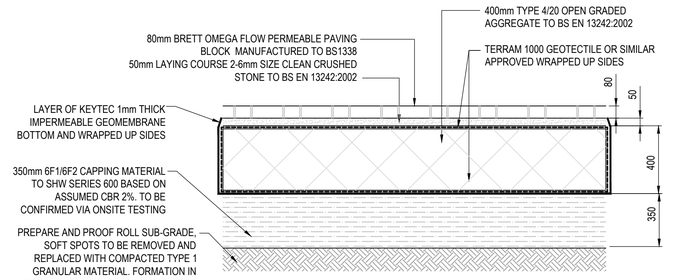
SCALE 1:20



TYPICAL PERFORATED CARRIER DRAIN

FOR ALL CAR PARKING AREAS DENOTED ON GENERAL ARRANGEMENT ONLY

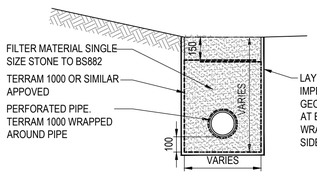
SCALE 1:20



PERMEABLE BLOCK PAVING DETAIL (TYPE C SYSTEM)

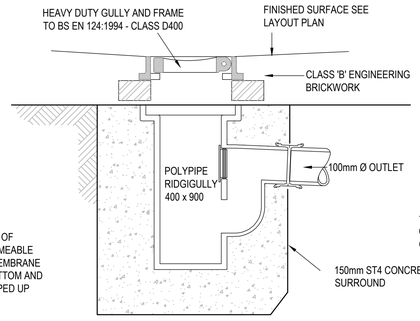
FOR ALL CAR PARKING AREAS DENOTED ON GENERAL ARRANGEMENT PLANS

SCALE 1:20

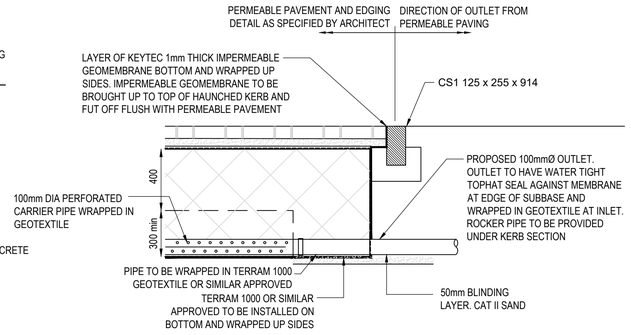


TYPICAL FILTER DRAIN DETAIL

SCALE 1:20



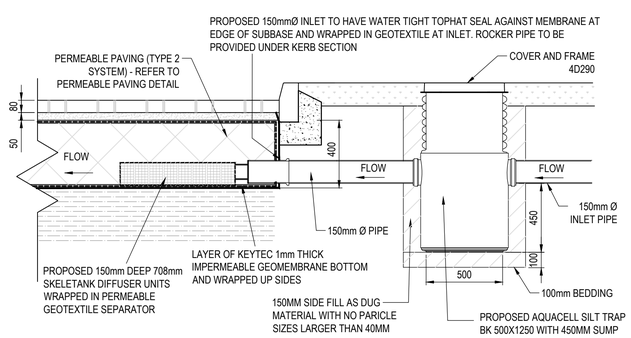
TYPICAL ROAD GULLY DETAIL FOR HIGHWAYS ADOPTION



TYPICAL PERMEABLE PAVING OUTLET DETAIL

FOR ALL CAR PARK WITH PERMEABLE PAVING AND LINED SUB BASE

SCALE 1:20



PROPOSED PRIVATE PERMEABLE SUB BASE DIFFUSER WITH SILT TRAP DETAIL

SCALE 1:20

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50/60 Station Road, Cambridge, CB1 2JH
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   - FBA-STC-SW-BG-DR-D-SE-6646-6647 DRAINAGE LONGSECTIONS
   - FBA-STC-SW-BG-SH-D-XX-6603-6605 PRIVATE FOUL WATER DRAINAGE SCHEDULES
   - FBA-STC-SW-BG-SH-D-XX-6620-6624 MANHOLE & PIPE SCHEDULES
   - FBA-STC-SW-BG-DR-D-SE-6652 OUTFALL HEADWALL DETAIL
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P07	REVISED FOLLOWING ICOSA COMMENTS	PJ	SEB	2022.05.05
P06	REVISED FOLLOWING ICOSA COMMENTS	ER	LT	2022.02.21
P05	SILT TRAP ADDED TO DIFFUSER DETAIL	LT	LT	2022.01.07
P04	REVISED FOLLOWING CLIENT COMMENT	LT	-	2021.12.21
P03	REVISED FOLLOWING LLFA & CLIENT COMMENT	LT	-	2021.11.19
P02	STAGE 4 ISSUE	LT	-	2021.10.12
P01	STAGE 3 ISSUE	ER	-	2021.09.27
Issued/Revision		By	Appd	YYYY.MM.DD
		HA	HA	SK	2021.07.27
		Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Issue Status

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Title
TYPICAL CONSTRUCTION DETAILS SHEET 1

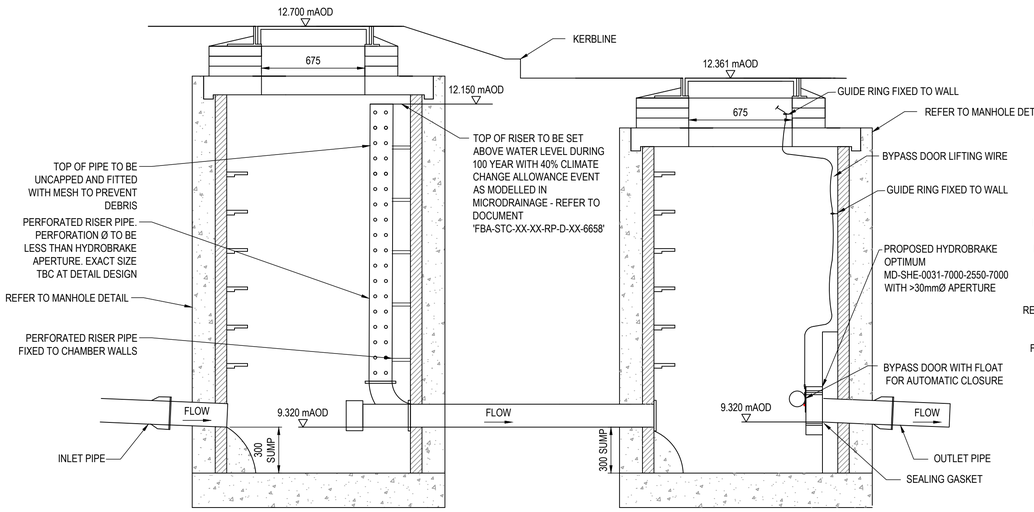
Project No.
332510223

Scale
1:20

Revision
P07

Drawing No.
FBA-STC-SW-BG-DR-D-XX-5621

Plotted: 05.05.2022 10:23:43 - 12:24 PM By: zdowd.c, Paulino
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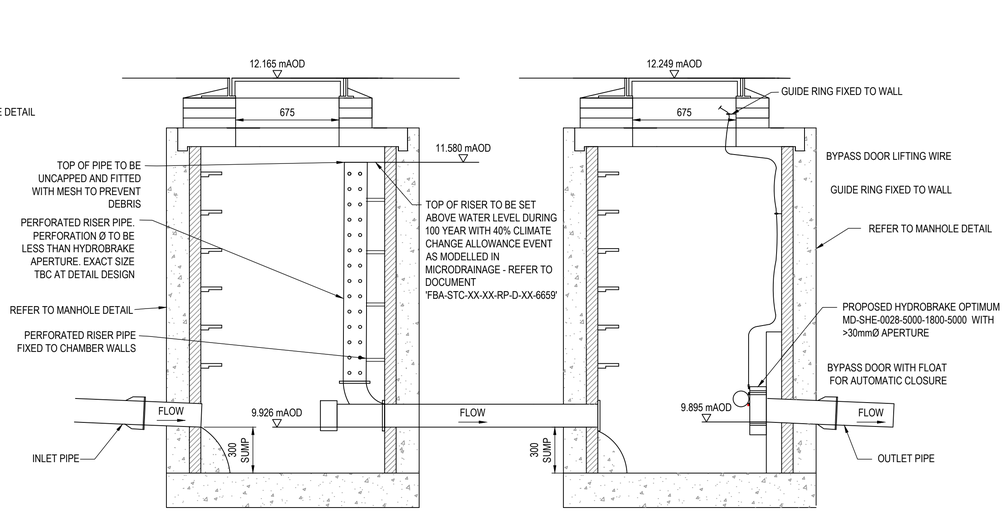


MANHOLE SW(N)15

MANHOLE SW(N)16

ADOPTABLE FLOW CONTROL CHAMBER DETAIL

RISER SPLIT CHAMBER
FOR NORTH NETWORK ONLY
SCALE 1:20

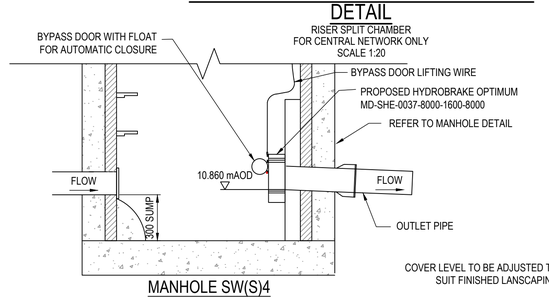


MANHOLE SW(C)8

MANHOLE SW(C)8a

ADOPTABLE FLOW CONTROL CHAMBER DETAIL

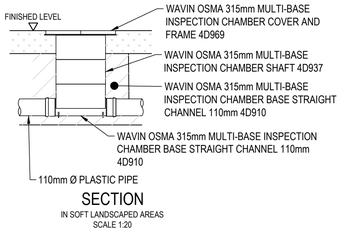
RISER SPLIT CHAMBER
FOR CENTRAL NETWORK ONLY
SCALE 1:20



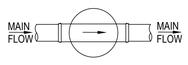
MANHOLE SW(S)4

ADOPTABLE FLOW CONTROL CHAMBER DETAIL

FOR SOUTH NETWORK ONLY
SCALE 1:20



SECTION
IN SOFT LANDSCAPED AREAS
SCALE 1:20

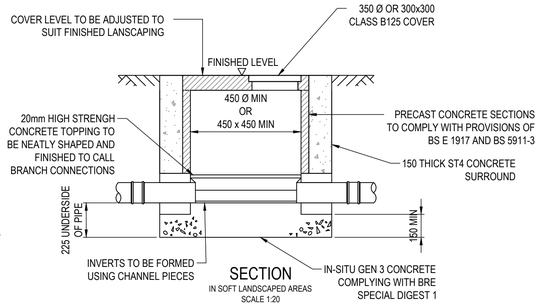


PLAN

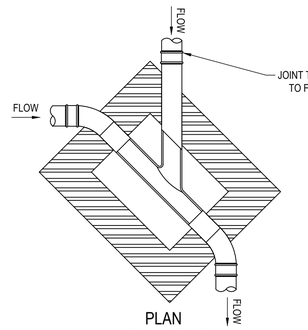
PRIVATE PLASTIC INSPECTION CHAMBER (300mm VARIANT)

SCALE 1:20

OUTFALL HEADWALL DETAIL SUPERCEDED BY DRAWING FBA-STC-SW-BG-DR-D-SE-6652 AND HAS BEEN OMITTED FROM THIS DRAWING FOLLOWING REVISION P05



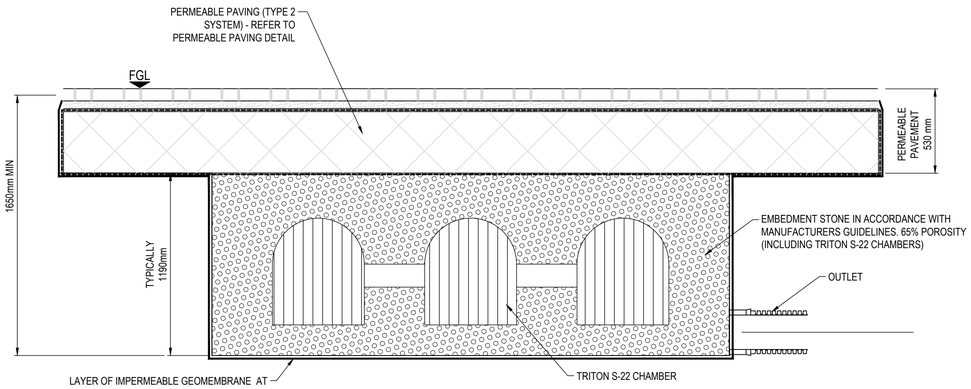
SECTION
IN SOFT LANDSCAPED AREAS
SCALE 1:20



PLAN
IN SOFT LANDSCAPED AREAS
SCALE 1:20

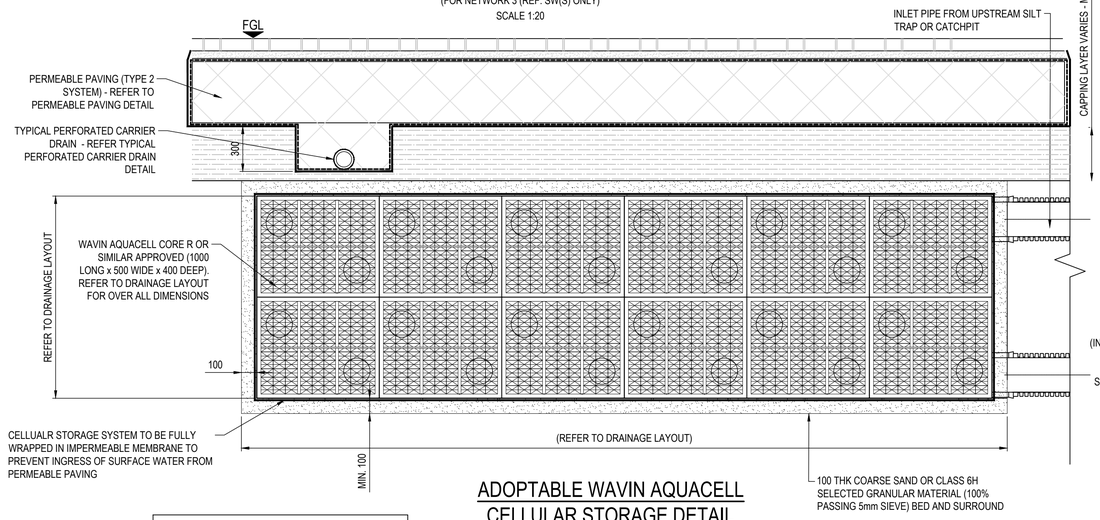
ADOPTABLE DEMARCATION CHAMBER (TYPE D)

SCALE 1:20



ADOPTABLE TYPICAL TRITON STORMWATER STORAGE DETAIL

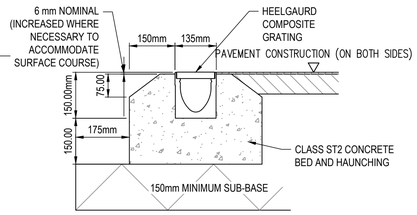
(FOR NETWORK 3 (REF: SW(S) ONLY)
SCALE 1:20



ADOPTABLE WAVIN AQUACELL CELLULAR STORAGE DETAIL

(REFER TO DRAINAGE LAYOUT FOR ARRANGEMENT)
(FOR NETWORK 1 & 2 (REF: SW(N) AND SW(C) ONLY)
SCALE 1:20

NOTE: THIS DETAIL IS A TYPICAL DETAIL. REFERENCE MUST BE MADE TO THE GENERAL ARRANGEMENT DRAWINGS/LAYOUT FOR THE REQUIRED ARRANGEMENT



TYPICAL LINEAR DRAIN DETAIL

SCALE 1:10

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Issued/Revision	By	Appd	YYYY.MM.DD
P07 MANHOLE COVER AMENDED	LT	-	2022.02.23
P06 REVISED FOLLOWING COMMENTS	ER	LT	2022.02.15
P05 FURTHER REVISION FOLLOWING ICOSA & LLFA COMMENTS	LT	LT	2022.01.07
P04 REVISED FOLLOWING CLIENT COMMENT	LT	-	2021.12.21
P03 REVISED FOLLOWING LLFA & CLIENT COMMENT	LT	-	2021.11.19
P02 STAGE 4 ISSUE	LT	-	2021.10.12
P01 STAGE 3 ISSUE	ER	-	2021.09.27
	HA	HA	SK	2021.07.27
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Title
TYPICAL CONSTRUCTION DETAILS
SHEET 2

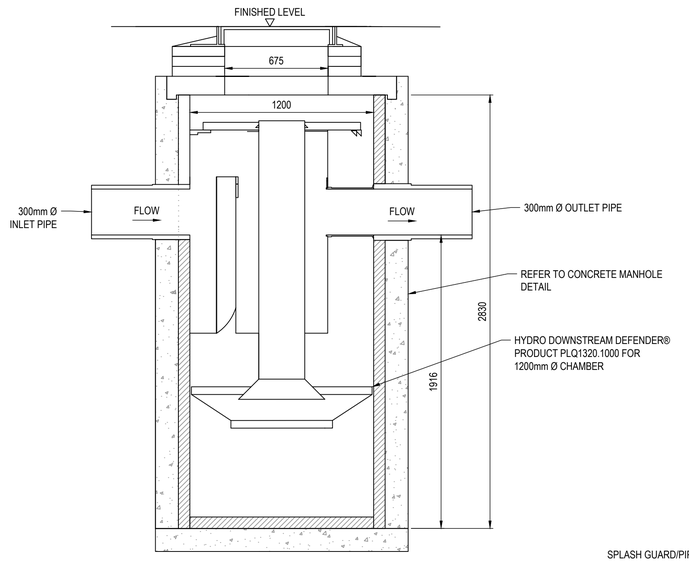
Project No.
332510223

Scale
1:20 & 1:10

Revision
P07

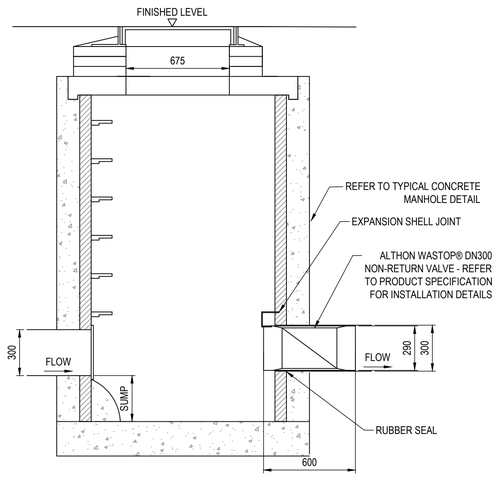
Drawing No.
FBA-STC-SW-BG-DR-D-XX-5622

Plotted: 23/02/2022 23:23:13 PM By: Tovet, Lewis
File: C:\Users\lewis.tovet\Desktop\working\technical\drawings\working\fba-stc-sw-bg-dr-d-xx-5621-5623 typical construction details



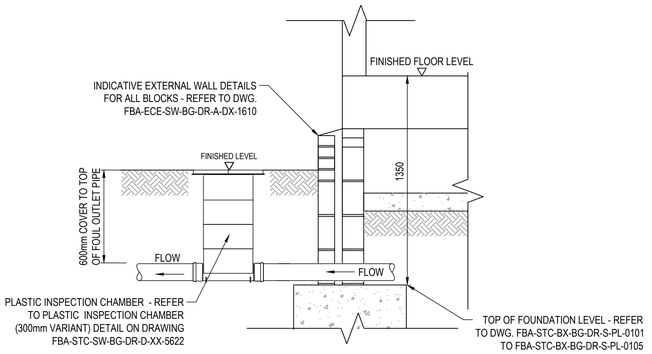
ADOPTABLE DOWNSTREAM DEFENDER MANHOLE DETAIL

SCALE 1:20



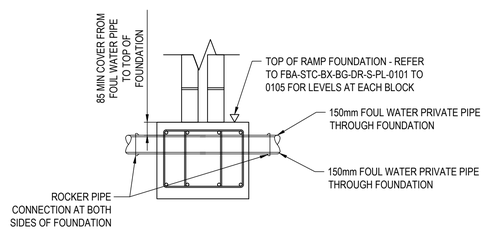
ADOPTABLE NON-RETURN VALVE MANHOLE CHAMBER

FOR SOUTH NETWORK ONLY
SCALE 1:20



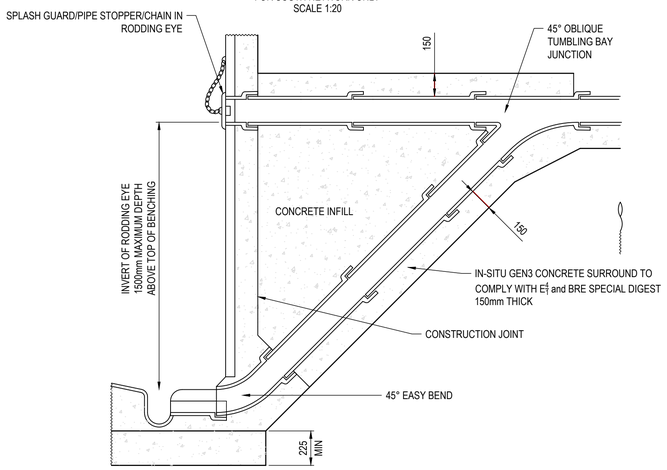
PROPOSED PRIVET FOUL DRAIN CONNECTION THROUGH EXTERNAL WALL OF BLOCKS

FOR ALL BLOCKS
SCALE 1:20



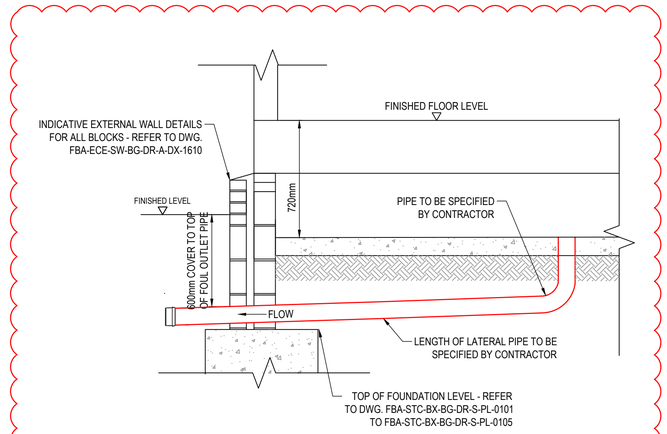
DETAIL OF FOUL WATER PRIVATE PIPE PASSING THROUGH RAMP FOUNDATION

FOR BLOCK 1, BLOCK 4 AND BLOCK 5 ONLY
SCALE 1:20



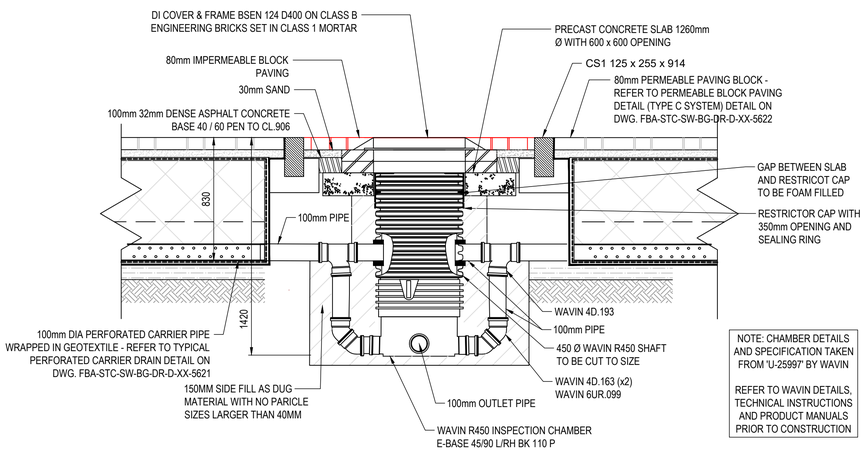
RAMPED BACKDROP FOR TYPE A to D ADOPTABLE MANHOLES

1:20



INDICATIVE LATERAL DRAIN THROUGH EXTERNAL WALL

FOR ALL BLOCKS
SCALE 1:20

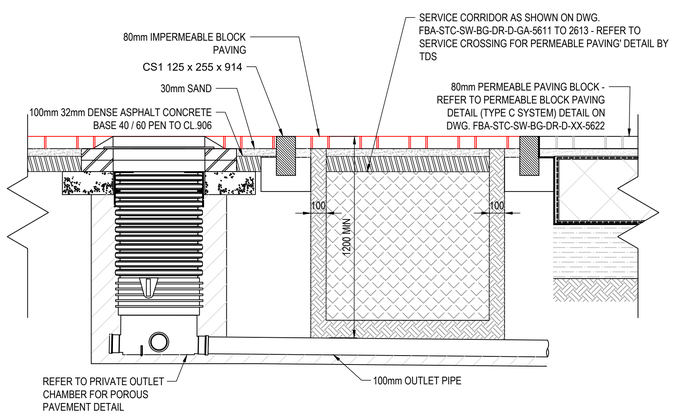


NOTE: CHAMBER DETAILS AND SPECIFICATION TAKEN FROM 'U-25997' BY WAVIN

REFER TO WAVIN DETAILS, TECHNICAL INSTRUCTIONS AND PRODUCT MANUALS PRIOR TO CONSTRUCTION

PRIVATE OUTLET CHAMBER FOR POROUS PAVEMENT (SW(C)8, SW(C) 10 &SW(C)11)

SCALE 1:20



PRIVATE OUTLET FOR POROUS PAVEMENT UNDERNEATH PROPOSED SERVICE CORRIDOR

SCALE 1:20

Stantec UK Limited
CAMBRIDGE
50/60 Station Road, Cambridge, CB1 2JH
Tel: +44 1223 882 000
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1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION.
   - FBA-STC-SW-BG-DR-D-GA-5611-5613 DRAINAGE LAYOUTS
   - FBA-STC-SW-BG-DR-D-GA-5614-5616 CATCHMENT PLAN
   - FBA-STC-SW-BG-DR-D-SE-6646-6647 DRAINAGE LONGSECTIONS
   - FBA-STC-SW-BG-SH-D-XX-6603-6605 PRIVATE FOUL WATER DRAINAGE SCHEDULES
   - FBA-STC-SW-BG-SH-D-XX-6620-6624 MANHOLE & PIPE SCHEDULES
   - FBA-STC-SW-BG-DR-D-SE-6652 OUTFALL HEADWALL DETAIL
2. DO NOT SCALE FROM THIS DRAWING, USE ONLY PRINTED DIMENSIONS.
3. ALL DIMENSIONS, CHAINAGES, LEVELS AND COORDINATES ARE IN METRES UNLESS DEFINED OTHERWISE.
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PROJECT HEALTH & SAFETY FILE FOR ANY IDENTIFIED POTENTIAL RISKS.
5. DETAILS FOR ADOPTION HAVE BEEN DESIGNED TO ADHERE TO 'DESIGN AND CONSTRUCTION GUIDANCE FOR FOUL AND SURFACE WATER SEWERS OFFERED FOR ADOPTION UNDER THE CODE FOR ADOPTION AGREEMENTS FOR WATER AND SEWERAGE COMPANIES OPERATING WHOLLY OR MAINLY IN ENGLAND ('THE CODE')' STANDARDS

P06	INDICATIVE LATERAL PIPE DETAIL ADDED	ER	LT	2022.03.16
P05	MANHOLE COVER UPDATED	LT	"	2022.02.23
P04	REVISED FOLLOWING COMMENTS	ER	LT	2022.02.15
P03	FUTHER REVISIONS FOLLOWING ICOSA & LLFA COMMENTS	LT	LT	2022.01.07
P02	REVISED FOLLOWING CLIENT COMMENT	ER		2021.12.21
P01	STAGE 3 ISSUE	ER		2021.11.19
Issued/Revision		By	Appd	YYYY.MM.DD
		HA	HA	SK	2021.07.27
		Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Issue Status

CONSTRUCTION ISSUE

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Client/Project Logo

Client/Project
BOKLOK

FULBECK AVENUE, WORTHING

Title
TYPICAL CONSTRUCTION DETAILS
SHEET 3

Project No.
332510223

Scale
1:20

Revision
P06

Drawing No.
FBA-STC-SW-BG-DR-D-XX-5623

Plotted: 16.03.2022 22:23:18 | 1:0.53:2 AM By: Trout, Lewis
Plotted by: CSDT-TROUTL | J:\PROJECTS\Active\Worthing\Technical\Drainage\Boklok-cre-fba-pdr-drwx-5401-5423-typical-construction-details

MANHOLE NAME	MANHOLE TYPE & DETAILS	COVER LEVEL (m)	MH DEPTH (m)	MANHOLE DIAM. (mm)	PIPE OUT INVERT LEVEL (m)	PIPE IN INVERT LEVEL (m)	PIPE IN BACKDROP (mm)	PIPE OUT DIAMETER (mm)	PIPE IN DIAMETER (mm)	MANHOLE EASTING (m)	MANHOLE NORTHING (m)	MANHOLE ADOPTION
SW(N)1	TYPE B	12.701	1.276	1200	11.425	n/a		225	n/a	510757.713	104832.478	HIGHWAYS
SW(N)3	TYPE B	12.754	1.494	1200	11.260	11.260		225	225	510748.966	104830.332	HIGHWAYS
SW(N)4	TYPE B	12.339	1.619	1200	10.720	10.720			225	510751.640	104817.487	HIGHWAYS
						10.720		225	225			
SW(N)5	TYPE B	12.240	1.447	1200	10.793	n/a		225	n/a	510754.168	104806.889	HIGHWAYS
SW(N)7	CATCHPIT CHAMBER	12.468	1.049	1800	11.419	11.419		225	225	510740.287	104820.694	ICOSA
SW(N)9	TYPE B	12.377	1.802	1200 MIN	10.575	11.650		300	225	510745.053	104815.937	ICOSA
						11.650			225			
SW(N)10	DOWNSTREAM DEFENDER CHAMBER	12.349	1.822	1200	10.527	10.527		300	225	510747.653	104805.574	ICOSA
SW(N)12	CATCHPIT CHAMBER	12.520	2.465	1800	10.055	10.055		225	225	510730.384	104836.602	ICOSA
SW(N)13	TYPE B	12.612	2.722	1200	9.890	9.890		225	225	510734.730	104832.059	ICOSA
SW(N)14	TYPE B	12.410	2.686	1200	9.724	9.724		225	225	510737.837	104819.016	ICOSA
SW(N)15	RISER CHAMBER	12.700	3.368	1200	9.332	10.527	1120	300	300	510746.632	104803.409	ICOSA
						9.407			225			
SW(N)16	FLOW CONTROL CHAMBER	12.361	3.041	1200	9.320	9.320		300	300	510745.119	104801.057	ICOSA

MANHOLE NAME	MANHOLE TYPE & DETAILS	COVER LEVEL (m)	MH DEPTH (m)	MANHOLE DIAM. (mm)	PIPE OUT INVERT LEVEL (m)	PIPE IN INVERT LEVEL (m)	PIPE IN BACKDROP (mm)	PIPE OUT DIAMETER (mm)	PIPE IN DIAMETER (mm)	MANHOLE EASTING (m)	MANHOLE NORTHING (m)	MANHOLE ADOPTION
SW(C)1	TYPE B	12.323	1.293	1200	11.030	n/a		300	n/a	510708.869	104709.830	HIGHWAYS
SW(C)2	TYPE B	11.890	1.300	1200	10.590	10.590		300	300	510714.869	104728.444	HIGHWAYS
SW(C)3	TYPE B	12.115	1.760	1200	10.355	10.355		300	300	510727.062	104766.258	HIGHWAYS
SW(C)5	TYPE B	12.004	1.676	1200	10.328	10.328		300	300	510722.845	104768.232	ICOSA
SW(C)6	DOWNSTREAM DEFENDER CHAMBER	12.002	1.726	1800	10.276	10.276		300	300	510713.577	104767.792	ICOSA
SW(C)8	RISER CHAMBER	12.165	2.239	1200	9.926	9.926		300	300	510726.863	104778.682	ICOSA
SW(C)8a	FLOW CONTROL CHAMBER	12.249	2.354	1200	9.895	9.895		300	300	510729.275	104778.796	ICOSA
SW(C)9	TYPE B	12.217	2.353	1200	9.864	9.864		300	300	510736.457	104779.137	ICOSA

MANHOLE NAME	MANHOLE TYPE & DETAILS	COVER LEVEL (m)	MH DEPTH (m)	MANHOLE DIAM. (mm)	PIPE OUT INVERT LEVEL (m)	PIPE IN INVERT LEVEL (m)	PIPE IN BACKDROP (mm)	PIPE OUT DIAMETER (mm)	PIPE IN DIAMETER (mm)	MANHOLE EASTING (m)	MANHOLE NORTHING (m)	MANHOLE ADOPTION
SW(S)4	FLOW CONTROL CHAMBER	12.791	1.931	1200	10.860	10.860		300	300	510676.477	104665.649	ICOSA
SW(S)5	NON-RETURN FLAP VALVE CHAMBER	12.743	1.962	1200	10.781	10.781		300	300	510687.715	104671.277	ICOSA
SW(S)9	CATCHPIT CHAMBER	13.289	1.489	1800	11.800	n/a		225	n/a	510633.198	104717.478	ICOSA
SW(S)12	CATCHPIT CHAMBER	12.681	1.481	1800	11.200	n/a		225	n/a	510673.870	104660.481	ICOSA

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P07	COORDINATES UPDATED	LT	-	2022.03.23
P06	FURTHER REVISIONS FOLLOWING COMMENTS	PJ	LT	2022.03.16
P05	FURTHER REVISION FOLLOWING ICOSA & LLFA COMMENTS	LT	-	2022.01.10
P04	UPDATED FOLLOWING GROUND MODEL UPDATES	LT	-	2021.12.21
P03	REVISED FOLLOWING LLFA & CLIENT COMMENT	LT	-	2021.11.18
P02	STAGE 4 ISSUE	ER	-	2021.10.12
P01	STAGE 3 ISSUE	ER	-	2021.09.21
Issued/Revision		By	Appd	YYYY.MM.DD
		ER	-	LT	2021.09.21
		Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Issue Status

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Client/Project

BOKLOK

FULBECK AVENUE, WORTHING

Title

MANHOLE SCHEDULES - SURFACE WATER

Project No.
332510223

Scale
-

Revision
P07

Drawing No.
FBA-STC-SW-BG-SH-D-XX-6620

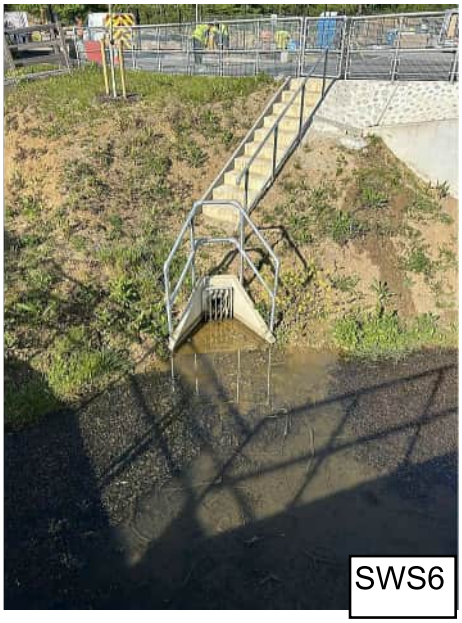
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APPENDIX 3 SITE VISIT PHOTOS

Fulbeck Avenue
Drainage Verification Site Visit (29/04/2025) Photos
D. Booth RGP Consulting


SWC1


FW45


SWS6


FW24


SWS5


FW26


FW44


FW34


SWS9


SWS4


SWS12




SWS11


FW23


FW22


FW02


FW01


SWS10


Silt Trap

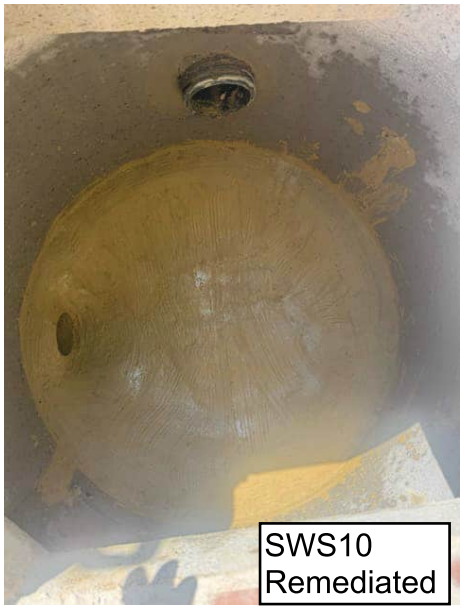

Gully


Gully


SWC2


SWC3


FW46


SWS10
Remediated

APPENDIX 4 CCTV PIPE CONDITION SURVEY

Contract no:		District:	.	Page No:	Index
Customer:	JOHN REILLY CIVIL ENG.	Division:		Site ID:	AB5509C
Catchment:	Not known	Operator:	DAVE	Date:	22:04:2025
Road:	FULLBACK AVE			Time:	12:27
Place:	WORTHING				

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INDEX

Survey	*Start MH*	*End MH*	*Pipe size*	*Length*
1	*FW01*	*FW02*	*150*	*19.3M*
2	*FW11*	*FW22*	*150*	*7.3M*
3	*FW02*	*FW22*	*150*	*6.7M*
4	*FW22*	*FW23*	*150*	*13.8M*
5	*FW23*	*FW24*	*150*	*52.1M*
6	*FW24*	*FW26*	*150*	*23.1M*
7	*FW26*	*FW45*	*150*	*24.3M*
8	*FW45*	*FW46*	*150*	*6.3M*
9	*FW34*	*FW36*	*150*	*8.3M*
10	*FW44*	*FW26*	*150*	*4.2M*
11	*SW11*	*SW12*	*150*	*3.8M*
12	*SW12*	*A.T*	*225*	*2.0M*
13	*SW03*	*A.T*	*300*	*4.0M*
14	*SW03*	*SW05*	*300*	*11.0M*
15	*SW05*	*SW06 HW*	*300*	*12.8M*
16	*SW09*	*A.T*	*225*	*26.5M*
17	*SW09*	*SW08*	*150*	*2.0M*
18	*SW08*	*SW07*	*150*	*1.0M*
19	*SW01*	*SW02*	*300*	*18.6M*
20	*SW08*	*SW07*	*300*	*7.1M*
21	*SW08*	*A.T*	*300*	*1.3M*

Contract no:		District:	.	Page No:	1-1
Customer:	JOHN REILLY CIVIL ENG.	Division:		Site ID:	AB5509C
Catchment:	Not known	Operator:	DAVE	Date:	22:04:2025
Road:	FULLBACK AVE			Time:	12:27
Place:	WORTHING				
Start MH:	FW01	Finish MH:	FW02	PLR:	
Start Depth:	0.00M	Finish Depth:	0.00M	Year Laid:	Not known
Pipe Size 1:	150mm	Material:	Vitrified clay	Direction:	Downstream
Pipe Size 2:	0mm	Lining:	Not specified	Weather:	Dry
Pipe Shape:	Circular	Use:	Foul	Location:	-
Pipe Length:	0.00M	Purpose:	Assessment	Total Length:	19.3M
Comments:				VT No:	
				Video:	
Location				Criticality:	
Details:				Precleansed:	Yes

Video Digit	Photo No	Distance (Metres)	Cont Def	Description		Severity
		0.0		ST	Start Survey.	0
		0.0		MH	Manhole. FW01	0
		0.0		WL	Water Level. 5% loss of diam.	0
		19.3		MH	Manhole. FW02	0
		19.3		FH	Finish Survey.	0

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Contract no:		District:	.	Page No:	2-1
Customer:	JOHN REILLY CIVIL ENG.	Division:		Site ID:	AB5509C
Catchment:	Not known	Operator:	DAVE	Date:	22:04:2025
Road:	FULLBACK AVE			Time:	12:28
Place:	WORTHING				
Start MH:	FW11	Finish MH:	FW22	PLR:	
Start Depth:	0.00M	Finish Depth:	0.00M	Year Laid:	Not known
Pipe Size 1:	150mm	Material:	Vitrified clay	Direction:	Downstream
Pipe Size 2:	0mm	Lining:	Not specified	Weather:	Dry
Pipe Shape:	Circular	Use:	Foul	Location:	-
Pipe Length:	0.00M	Purpose:	Assessment	Total Length:	7.3M
Comments:				VT No:	
				Video:	
Location				Criticality:	-
Details:				Precleansed:	Yes

Video Digit	Photo No	Distance (Metres)	Cont Def	Description		Severity
		0.0		ST	Start Survey.	0
		0.0		MH	Manhole. FW11	0
		0.0		WL	Water Level. 5% loss of diam.	0
		7.3		MH	Manhole. FW22	0
		7.3		FH	Finish Survey.	0

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Contract no:		District:	.	Page No:	3-1
Customer:	JOHN REILLY CIVIL ENG.	Division:		Site ID:	AB5509C
Catchment:	Not known	Operator:	DAVE	Date:	22:04:2025
Road:	FULLBACK AVE			Time:	12:29
Place:	WORTHING				
Start MH:	FW02	Finish MH:	FW22	PLR:	
Start Depth:	0.00M	Finish Depth:	0.00M	Year Laid:	Not known
Pipe Size 1:	150mm	Material:	Vitrified clay	Direction:	Downstream
Pipe Size 2:	0mm	Lining:	Not specified	Weather:	Dry
Pipe Shape:	Circular	Use:	Foul	Location:	-
Pipe Length:	0.00M	Purpose:	Assessment	Total Length:	6.7M
Comments:				VT No:	
				Video:	
Location				Criticality:	-
Details:				Precleansed:	Yes

Video Digit	Photo No	Distance (Metres)	Cont	Def	Description	Severity
		0.0	ST		Start Survey.	0
		0.0	MH		Manhole. FW02	0
		0.0	WL		Water Level. 5% loss of diam.	0
		6.7	MH		Manhole. FW22	0
		6.7	FH		Finish Survey.	0

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Contract no:		District:	.	Page No:	4-1
Customer:	JOHN REILLY CIVIL ENG.	Division:		Site ID:	AB5509C
Catchment:	Not known	Operator:	DAVE	Date:	22:04:2025
Road:	FULLBACK AVE			Time:	12:30
Place:	WORTHING				
Start MH:	FW22	Finish MH:	FW23	PLR:	
Start Depth:	0.00M	Finish Depth:	0.00M	Year Laid:	Not known
Pipe Size 1:	150mm	Material:	Vitrified clay	Direction:	Downstream
Pipe Size 2:	0mm	Lining:	Not specified	Weather:	Dry
Pipe Shape:	Circular	Use:	Foul	Location:	-
Pipe Length:	0.00M	Purpose:	Assessment	Total Length:	13.8M
Comments:				VT No:	
				Video:	
Location				Criticality:	-
Details:				Precleansed:	Yes

Video Digit	Photo No	Distance (Metres)	Cont Def	Description		Severity
		0.0		ST	Start Survey.	0
		0.0		MH	Manhole. FW22	0
		0.0		WL	Water Level. 5% loss of diam.	0
		13.8		MH	Manhole. FW23	0
		13.8		FH	Finish Survey.	0

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Contract no:		District:	.	Page No:	5-1
Customer:	JOHN REILLY CIVIL ENG.	Division:		Site ID:	AB5509C
Catchment:	Not known	Operator:	DAVE	Date:	22:04:2025
Road:	FULLBACK AVE			Time:	12:31
Place:	WORTHING				
Start MH:	FW23	Finish MH:	FW24	PLR:	
Start Depth:	0.00M	Finish Depth:	0.00M	Year Laid:	Not known
Pipe Size 1:	150mm	Material:	Vitrified clay	Direction:	Downstream
Pipe Size 2:	0mm	Lining:	Not specified	Weather:	Dry
Pipe Shape:	Circular	Use:	Foul	Location:	-
Pipe Length:	0.00M	Purpose:	Assessment	Total Length:	52.1M
Comments:				VT No:	
				Video:	
Location				Criticality:	-
Details:				Precleansed:	Yes

Video Digit	Photo No	Distance (Metres)	Cont Def	Description		Severity
		0.0		ST	Start Survey.	0
		0.0		MH	Manhole. FW23	0
		0.0		WL	Water Level. 5% loss of diam.	0
		52.1		MH	Manhole. FW24	0
		52.1		FH	Finish Survey.	0

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Contract no:		District:	.	Page No:	6-1
Customer:	JOHN REILLY CIVIL ENG.	Division:		Site ID:	AB5509C
Catchment:	Not known	Operator:	DAVE	Date:	22:04:2025
Road:	FULLBACK AVE			Time:	12:33
Place:	WORTHING				
Start MH:	FW24	Finish MH:	FW26	PLR:	
Start Depth:	0.00M	Finish Depth:	0.00M	Year Laid:	Not known
Pipe Size 1:	150mm	Material:	Vitrified clay	Direction:	Downstream
Pipe Size 2:	0mm	Lining:	Not specified	Weather:	Dry
Pipe Shape:	Circular	Use:	Foul	Location:	-
Pipe Length:	0.00M	Purpose:	Assessment	Total Length:	23.1M
Comments:				VT No:	
				Video:	
Location				Criticality:	-
Details:				Precleansed:	Yes

Video Digit	Photo No	Distance (Metres)	Cont Def	Description		Severity
		0.0		ST	Start Survey.	0
		0.0		MH	Manhole. FW24	0
		0.0		WL	Water Level. 5% loss of diam.	0
		16.0		WL	Water Level. 10% loss of diam.	0
		23.1		MH	Manhole. FW26	0
		23.1		FH	Finish Survey.	0

Licensed to A B Pipelines

Contract no:		District:	.	Page No:	7-1
Customer:	JOHN REILLY CIVIL ENG.	Division:		Site ID:	AB5509C
Catchment:	Not known	Operator:	DAVE	Date:	22:04:2025
Road:	FULLBACK AVE			Time:	13:01
Place:	WORTHING				
Start MH:	FW26	Finish MH:	FW45	PLR:	
Start Depth:	0.00M	Finish Depth:	0.00M	Year Laid:	Not known
Pipe Size 1:	150mm	Material:	Vitrified clay	Direction:	Downstream
Pipe Size 2:	0mm	Lining:	Not specified	Weather:	Dry
Pipe Shape:	Circular	Use:	Foul	Location:	-
Pipe Length:	0.00M	Purpose:	Assessment	Total Length:	24.3M
Comments:				VT No:	
				Video:	
Location				Criticality:	-
Details:				Precleansed:	Yes

Video Digit	Photo No	Distance (Metres)	Cont Def	Description		Severity
		0.0		ST	Start Survey.	0
		0.0		MH	Manhole. FW26	0
		0.0		WL	Water Level. 5% loss of diam.	0
		24.3		MH	Manhole. FW45	0
		24.3		FH	Finish Survey.	0

Licensed to A B Pipelines

Contract no:		District:	.	Page No:	8-1
Customer:	JOHN REILLY CIVIL ENG.	Division:		Site ID:	AB5509C
Catchment:	Not known	Operator:	DAVE	Date:	22:04:2025
Road:	FULLBACK AVE			Time:	13:17
Place:	WORTHING				
Start MH:	FW45	Finish MH:	FW46	PLR:	
Start Depth:	0.00M	Finish Depth:	0.00M	Year Laid:	Not known
Pipe Size 1:	150mm	Material:	Vitrified clay	Direction:	Downstream
Pipe Size 2:	0mm	Lining:	Not specified	Weather:	Dry
Pipe Shape:	Circular	Use:	Foul	Location:	-
Pipe Length:	0.00M	Purpose:	Assessment	Total Length:	6.3M
Comments:				VT No:	
				Video:	
Location				Criticality:	-
Details:				Precleansed:	Yes

Video Digit	Photo No	Distance (Metres)	Cont Def	Description		Severity
		0.0		ST	Start Survey.	0
		0.0		MH	Manhole. FW45	0
		0.0		WL	Water Level. 5% loss of diam.	0
		6.3		MH	Manhole. FW46	0
		6.3		FH	Finish Survey.	0

Licensed to A B Pipelines

Contract no:		District:	.	Page No:	9-1
Customer:	JOHN REILLY CIVIL ENG.	Division:		Site ID:	AB5509C
Catchment:	Not known	Operator:	DAVE	Date:	22:04:2025
Road:	FULLBACK AVE			Time:	13:30
Place:	WORTHING				
Start MH:	FW34	Finish MH:	FW36	PLR:	
Start Depth:	0.00M	Finish Depth:	0.00M	Year Laid:	Not known
Pipe Size 1:	150mm	Material:	Vitrified clay	Direction:	Downstream
Pipe Size 2:	0mm	Lining:	Not specified	Weather:	Dry
Pipe Shape:	Circular	Use:	Foul	Location:	-
Pipe Length:	0.00M	Purpose:	Assessment	Total Length:	8.3M
Comments:				VT No:	
				Video:	
Location				Criticality:	-
Details:				Precleansed:	Yes

Video Digit	Photo No	Distance (Metres)	Cont Def	Description		Severity
		0.0		ST	Start Survey.	0
		0.0		MH	Manhole. FW34	0
		0.0		WL	Water Level. 5% loss of diam.	0
		8.3		MH	Manhole. FW36	0
		8.3		FH	Finish Survey.	0

Licensed to A B Pipelines

Contract no:		District:	.	Page No:	10-1
Customer:	JOHN REILLY CIVIL ENG.	Division:		Site ID:	AB5509C
Catchment:	Not known	Operator:	DAVE	Date:	22:04:2025
Road:	FULLBACK AVE			Time:	15:24
Place:	WORTHING				
Start MH:	FW44	Finish MH:	FW26	PLR:	
Start Depth:	0.00M	Finish Depth:	0.00M	Year Laid:	Not known
Pipe Size 1:	150mm	Material:	Vitrified clay	Direction:	Downstream
Pipe Size 2:	0mm	Lining:	Not specified	Weather:	Dry
Pipe Shape:	Circular	Use:	Foul	Location:	-
Pipe Length:	0.00M	Purpose:	Assessment	Total Length:	4.2M
Comments:				VT No:	
				Video:	
Location				Criticality:	-
Details:				Precleansed:	Yes

Video Digit	Photo No	Distance (Metres)	Cont Def	Description		Severity
		0.0		ST	Start Survey.	0
		0.0		MH	Manhole. FW44	0
		0.0		WL	Water Level. 5% loss of diam.	0
		4.2		MH	Manhole. FW26	0
		4.2		FH	Finish Survey.	0

Licensed to A B Pipelines

Contract no:		District:	.	Page No:	11-1
Customer:	JOHN REILLY CIVIL ENG.	Division:		Site ID:	AB5509C
Catchment:	Not known	Operator:	DAVE	Date:	22:04:2025
Road:	FULLBACK AVE			Time:	15:25
Place:	WORTHING				
Start MH:	SW11	Finish MH:	SW12	PLR:	
Start Depth:	0.00M	Finish Depth:	0.00M	Year Laid:	Not known
Pipe Size 1:	150mm	Material:	Vitrified clay	Direction:	Downstream
Pipe Size 2:	0mm	Lining:	Not specified	Weather:	Dry
Pipe Shape:	Circular	Use:	Surface water	Location:	-
Pipe Length:	0.00M	Purpose:	Assessment	Total Length:	3.8M
Comments:				VT No:	
				Video:	
Location				Criticality:	-
Details:				Precleansed:	Yes

Video Digit	Photo No	Distance (Metres)	Cont Def	Description		Severity
		0.0		ST	Start Survey.	0
		0.0		MH	Manhole. SW11	0
		0.0		WL	Water Level. 5% loss of diam.	0
		3.8		MH	Manhole. SW12	0
		3.8		FH	Finish Survey.	0

Licensed to A B Pipelines

Contract no:		District:	.	Page No:	12-1
Customer:	JOHN REILLY CIVIL ENG.	Division:		Site ID:	AB5509C
Catchment:	Not known	Operator:	DAVE	Date:	22:04:2025
Road:	FULLBACK AVE			Time:	15:26
Place:	WORTHING				
Start MH:	SW12	Finish MH:	A.T	PLR:	
Start Depth:	0.00M	Finish Depth:	0.00M	Year Laid:	Not known
Pipe Size 1:	225mm	Material:	Vitrified clay	Direction:	Downstream
Pipe Size 2:	0mm	Lining:	Not specified	Weather:	Dry
Pipe Shape:	Circular	Use:	Surface water	Location:	-
Pipe Length:	0.00M	Purpose:	Assessment	Total Length:	2.0M
Comments:				VT No:	
				Video:	
Location				Criticality:	-
Details:				Precleansed:	Yes

Video Digit	Photo No	Distance (Metres)	Cont Def	Description		Severity
		0.0		ST	Start Survey.	0
		0.0		MH	Manhole. SW12	0
		0.0		WL	Water Level. 5% loss of diam.	0
		1.0		OJM	Open Joint Medium.	2
		2.0		MH	Manhole. A.T	0
		2.0		FH	Finish Survey.	0

Licensed to A B Pipelines

Contract no:		District:	.	Page No:	13-1
Customer:	JOHN REILLY CIVIL ENG.	Division:		Site ID:	AB5509C
Catchment:	Not known	Operator:	DAVE	Date:	22:04:2025
Road:	FULLBACK AVE			Time:	15:27
Place:	WORTHING				
Start MH:	SW03	Finish MH:	A.T	PLR:	
Start Depth:	0.00M	Finish Depth:	0.00M	Year Laid:	Not known
Pipe Size 1:	300mm	Material:	Vitrified clay	Direction:	Upstream
Pipe Size 2:	0mm	Lining:	Not specified	Weather:	Dry
Pipe Shape:	Circular	Use:	Surface water	Location:	-
Pipe Length:	0.00M	Purpose:	Assessment	Total Length:	4.0M
Comments:				VT No:	
				Video:	
Location				Criticality:	-
Details:				Precleansed:	Yes

Video Digit	Photo No	Distance (Metres)	Cont Def	Description		Severity
		0.0		ST	Start Survey.	0
		0.0		MH	Manhole. SW03	0
		0.0		WL	Water Level. 5% loss of diam.	0
		4.0		MH	Manhole. A.T	0
		4.0		FH	Finish Survey.	0

Licensed to A B Pipelines

Contract no:		District:	.	Page No:	14-1
Customer:	JOHN REILLY CIVIL ENG.	Division:		Site ID:	AB5509C
Catchment:	Not known	Operator:	DAVE	Date:	22:04:2025
Road:	FULLBACK AVE			Time:	15:28
Place:	WORTHING				
Start MH:	SW03	Finish MH:	SW05	PLR:	
Start Depth:	0.00M	Finish Depth:	0.00M	Year Laid:	Not known
Pipe Size 1:	300mm	Material:	Vitrified clay	Direction:	Downstream
Pipe Size 2:	0mm	Lining:	Not specified	Weather:	Dry
Pipe Shape:	Circular	Use:	Surface water	Location:	-
Pipe Length:	0.00M	Purpose:	Assessment	Total Length:	11.0M
Comments:				VT No:	
				Video:	
Location				Criticality:	-
Details:				Precleansed:	Yes

Video Digit	Photo No	Distance (Metres)	Cont Def	Description		Severity
		0.0		ST	Start Survey.	0
		0.0		MH	Manhole. SW03	0
		0.0		WL	Water Level. 5% loss of diam.	0
		11.0		MH	Manhole. SW05	0
		11.0		FH	Finish Survey.	0

Licensed to A B Pipelines

Contract no:		District:	.	Page No:	15-1
Customer:	JOHN REILLY CIVIL ENG.	Division:		Site ID:	AB5509C
Catchment:	Not known	Operator:	DAVE	Date:	22:04:2025
Road:	FULLBACK AVE			Time:	15:28
Place:	WORTHING				
Start MH:	SW05	Finish MH:	SW06 HW	PLR:	
Start Depth:	0.00M	Finish Depth:	0.00M	Year Laid:	Not known
Pipe Size 1:	300mm	Material:	Vitrified clay	Direction:	Downstream
Pipe Size 2:	0mm	Lining:	Not specified	Weather:	Dry
Pipe Shape:	Circular	Use:	Surface water	Location:	-
Pipe Length:	0.00M	Purpose:	Assessment	Total Length:	12.8M
Comments:				VT No:	
				Video:	
Location				Criticality:	-
Details:				Precleansed:	Yes

Video Digit	Photo No	Distance (Metres)	Cont Def	Description		Severity
		0.0		ST	Start Survey.	0
		0.0		MH	Manhole. SW05	0
		0.0		WL	Water Level. 5% loss of diam.	0
		4.3		OJM	Open Joint Medium.	2
		11.0		MC	Material Change. PVC	0
		11.0		DC	Diameter Change. Diameter 225mm.	0
		12.8		MH	Manhole. SW06 HW	0
		12.8		FH	Finish Survey.	0

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Contract no:		District:	.	Page No:	16-1
Customer:	JOHN REILLY CIVIL ENG.	Division:		Site ID:	AB5509C
Catchment:	Not known	Operator:	DAVE	Date:	22:04:2025
Road:	FULLBACK AVE			Time:	15:30
Place:	WORTHING				
Start MH:	SW09	Finish MH:	A.T	PLR:	
Start Depth:	0.00M	Finish Depth:	0.00M	Year Laid:	Not known
Pipe Size 1:	225mm	Material:	Vitrified clay	Direction:	Downstream
Pipe Size 2:	0mm	Lining:	Not specified	Weather:	Dry
Pipe Shape:	Circular	Use:	Surface water	Location:	-
Pipe Length:	0.00M	Purpose:	Assessment	Total Length:	26.5M
Comments:				VT No:	
				Video:	
Location				Criticality:	-
Details:				Precleansed:	Yes

Video Digit	Photo No	Distance (Metres)	Cont Def	Description		Severity
		0.0		ST	Start Survey.	0
		0.0		MH	Manhole. SW09	0
		0.0		WL	Water Level. 5% loss of diam.	0
		26.5		MH	Manhole. A.T	0
		26.5		FH	Finish Survey.	0

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Contract no:		District:	.	Page No:	17-1
Customer:	JOHN REILLY CIVIL ENG.	Division:		Site ID:	AB5509C
Catchment:	Not known	Operator:	DAVE	Date:	22:04:2025
Road:	FULLBACK AVE			Time:	15:31
Place:	WORTHING				
Start MH:	SW09	Finish MH:	SW08	PLR:	
Start Depth:	0.00M	Finish Depth:	0.00M	Year Laid:	Not known
Pipe Size 1:	150mm	Material:	Vitrified clay	Direction:	Upstream
Pipe Size 2:	0mm	Lining:	Not specified	Weather:	Dry
Pipe Shape:	Circular	Use:	Surface water	Location:	-
Pipe Length:	0.00M	Purpose:	Assessment	Total Length:	2.0M
Comments:				VT No:	
				Video:	
Location				Criticality:	-
Details:				Precleansed:	Yes

Video Digit	Photo No	Distance (Metres)	Cont Def	Description		Severity
		0.0		ST	Start Survey.	0
		0.0		MH	Manhole. SW09	0
		0.0		WL	Water Level. 5% loss of diam.	0
		2.0		MH	Manhole. SW08	0
		2.0		FH	Finish Survey.	0

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Contract no:		District:	.	Page No:	18-1
Customer:	JOHN REILLY CIVIL ENG.	Division:		Site ID:	AB5509C
Catchment:	Not known	Operator:	DAVE	Date:	22:04:2025
Road:	FULLBACK AVE			Time:	15:33
Place:	WORTHING				
Start MH:	SW08	Finish MH:	SW07	PLR:	
Start Depth:	0.00M	Finish Depth:	0.00M	Year Laid:	Not known
Pipe Size 1:	150mm	Material:	Polyvinyl chloride	Direction:	Upstream
Pipe Size 2:	0mm	Lining:	Not specified	Weather:	Dry
Pipe Shape:	Circular	Use:	Surface water	Location:	-
Pipe Length:	0.00M	Purpose:	Assessment	Total Length:	1.0M
Comments:				VT No:	
				Video:	
Location				Criticality:	-
Details:				Precleansed:	Yes

Video Digit	Photo No	Distance (Metres)	Cont Def	Description		Severity
		0.0		ST	Start Survey.	0
		0.0		MH	Manhole. SW08	0
		0.0		WL	Water Level. 5% loss of diam.	0
		0.2		DC	Diameter Change. Diameter 100mm.	0
		0.2		LU	Line Deviates Up.	0
		1.0		MH	Manhole. SW07	0
		1.0		FH	Finish Survey.	0

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Contract no:		District:	.	Page No:	19-1
Customer:	JOHN REILLY CIVIL ENG.	Division:		Site ID:	AB5509C
Catchment:	Not known	Operator:	DAVE	Date:	22:04:2025
Road:	FULLBACK AVE			Time:	15:35
Place:	WORTHING				
Start MH:	SW01	Finish MH:	SW02	PLR:	
Start Depth:	0.00M	Finish Depth:	0.00M	Year Laid:	Not known
Pipe Size 1:	300mm	Material:	Vitrified clay	Direction:	Downstream
Pipe Size 2:	0mm	Lining:	Not specified	Weather:	Dry
Pipe Shape:	Circular	Use:	Surface water	Location:	-
Pipe Length:	0.00M	Purpose:	Assessment	Total Length:	18.6M
Comments:				VT No:	
				Video:	
Location				Criticality:	-
Details:				Precleansed:	Yes

Video Digit	Photo No	Distance (Metres)	Cont Def	Description		Severity
		0.0		ST	Start Survey.	0
		0.0		MH	Manhole. SW01	0
		0.0		WL	Water Level. 5% loss of diam.	0
		18.6		MH	Manhole. SW02	0
		18.6		FH	Finish Survey.	0

Licensed to A B Pipelines

Contract no:		District:	.	Page No:	20-1
Customer:	JOHN REILLY CIVIL ENG.	Division:		Site ID:	AB5509C
Catchment:	Not known	Operator:	DAVE	Date:	22:04:2025
Road:	FULLBACK AVE			Time:	15:54
Place:	WORTHING				
Start MH:	SW08	Finish MH:	SW07	PLR:	
Start Depth:	0.00M	Finish Depth:	0.00M	Year Laid:	Not known
Pipe Size 1:	300mm	Material:	Polyvinyl chloride	Direction:	Upstream
Pipe Size 2:	0mm	Lining:	Not specified	Weather:	Dry
Pipe Shape:	Circular	Use:	Surface water	Location:	-
Pipe Length:	0.00M	Purpose:	Assessment	Total Length:	7.1M
Comments:				VT No:	
				Video:	
Location				Criticality:	-
Details:				Precleansed:	Yes

Video Digit	Photo No	Distance (Metres)	Cont Def	Description		Severity
		0.0		ST	Start Survey.	0
		0.0		MH	Manhole. SW08	0
		0.0		WL	Water Level. 10% loss of diam.	0
		7.1		MH	Manhole. SW07	0
		7.1		FH	Finish Survey.	0

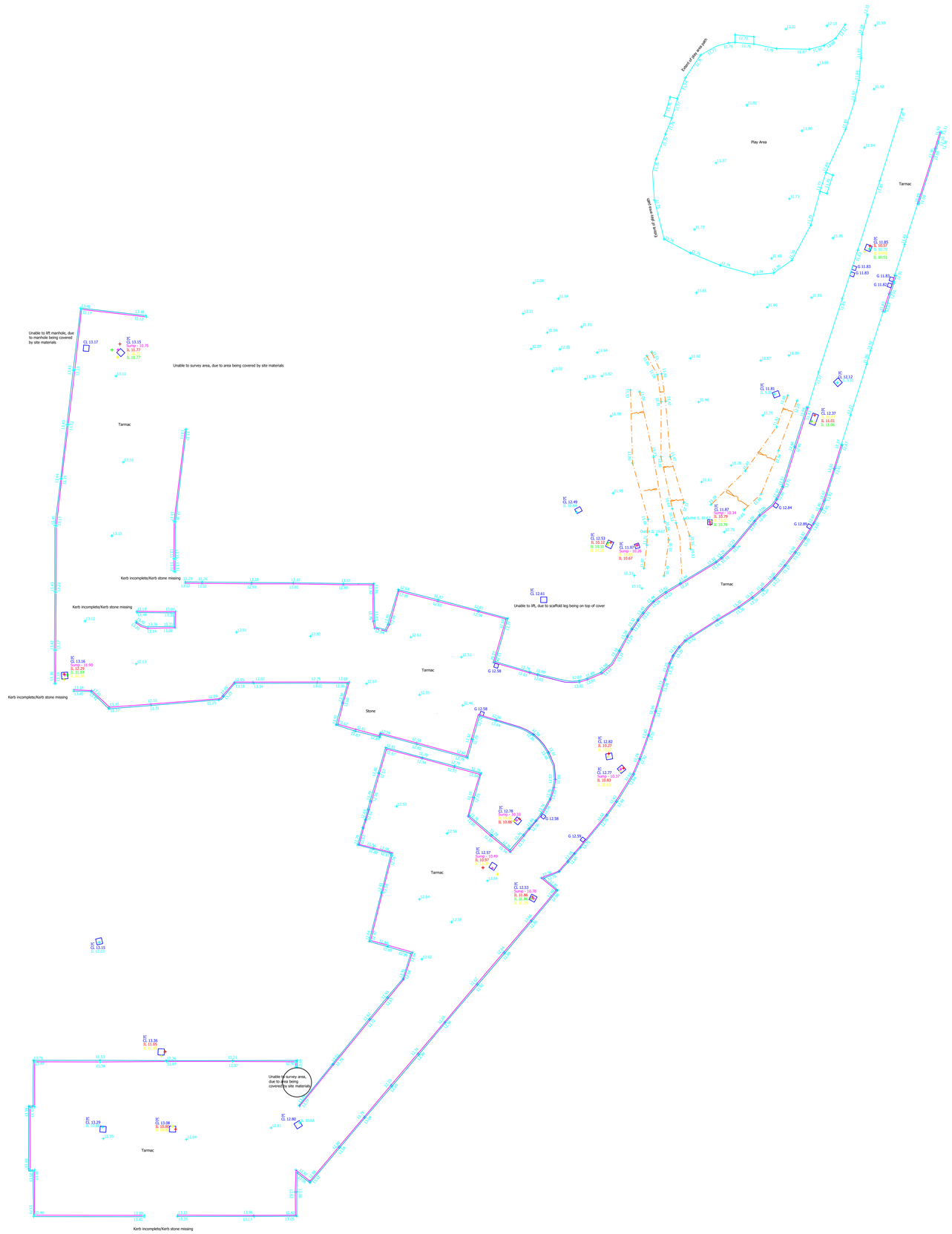
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Contract no:		District:	.	Page No:	21-1
Customer:	JOHN REILLY CIVIL ENG.	Division:		Site ID:	AB5509C
Catchment:	Not known	Operator:	DAVE	Date:	22:04:2025
Road:	FULLBACK AVE			Time:	15:55
Place:	WORTHING				
Start MH:	SW08	Finish MH:	A.T	PLR:	
Start Depth:	0.00M	Finish Depth:	0.00M	Year Laid:	Not known
Pipe Size 1:	300mm	Material:	Vitrified clay	Direction:	Downstream
Pipe Size 2:	0mm	Lining:	Not specified	Weather:	Dry
Pipe Shape:	Circular	Use:	Surface water	Location:	-
Pipe Length:	0.00M	Purpose:	Assessment	Total Length:	1.3M
Comments:				VT No:	
				Video:	
Location				Criticality:	-
Details:				Precleansed:	Yes

Video Digit	Photo No	Distance (Metres)	Cont Def	Description		Severity
		0.0		ST	Start Survey.	0
		0.0		MH	Manhole. SW08	0
		0.0		WL	Water Level. 20% loss of diam.	0
		1.3		MH	Manhole. A.T	0
		1.3		FH	Finish Survey.	0

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APPENDIX 5 AS BUILT SURVEY



NOTES:

Drainage:
Inspection Covers are lifted where possible and all drainage invert information has been obtained through visual inspection only, with no entry into manholes. Therefore the complete accuracy cannot be guaranteed. Where drainage is of critical importance we suggest the services of a specialist drainage expert be used.

Trees:
Every effort has been made to identify and detail all trees on site but where trees are of critical importance we suggest the use of a specialist such as an arborist. Tree spread and heights are indicative.

GPS:
GPS detail is relative to the time and date of survey. GPS levels and grid are obtained using industry standard guidelines and can vary according to the quality of the GPS network at the time of survey. Unless stated otherwise, surveys are Scale factor 1 and Horizontal and Vertical Datums are established from a central site fix and baseline orientation station utilising GNSS correction data.

Survey notes:
Survey specification is linked to the original purpose of the survey commissioned at source and is to be used for this purpose only. Survey is accurate within limitations of site conditions at the time of survey. In areas difficult to survey due to restricted access, lines of sight or dense vegetation, critical dimensions and positions should be verified following suitable clearance.
Survey detail obtained and shown is relative to the plotting scale.

Copyright:
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LEGEND

OVERALL TREE SPECIES INFORMATION

ALDER	ALD	LONDON PLANE	LPN
ASH	ASH	MAGNOLIA	MAG
ASPEN	ASP	MAPLE	MPL
BEECH	BCH	OAK	OAK
CHERRY	CHY	PINE	PNE
ELM	ELM	POPLAR	POP
FIR	FIR	RHODODENDRONS	RDN
FRUIT	FRT	ROWAN	RWN
HAWTHORN	HAW	SILVER BIRCH	SIB
HAZEL	HAZ	SWEET CHESTNUT	SCH
HOLLY	HLY	WALNUT	WNT
HORSE CHESTNUT	HCH	WILLOW	WLW
LIME	LIM	YEW	YEW
LOCUST	LOC	SPECIES UNKNOWN	SPU
		COPPICED	COP

TREE ANNOTATIONS: Tree Species / Tree Bole Size / No of Boles
Tree Height / Tree Canopy Spread

FENCE INFORMATION

BARBED WIRE FENCE	BWF	BED LEVEL	BL
CHAIN LINK FENCE	CLF	COVER LEVEL	CL
CHESTNUT PALING FENCE	CPF	FLOOR LEVEL	FL
CLOSE BOARD FENCE	CBF	INVERT LEVEL	IL
CONCRETE SLAT FENCE	CCF	OUTFALL LEVEL	OL
CORRUGATED IRON FENCE	CIF	THRESHOLD LEVEL	THL
CRASH BARRIER	CBR	FOUL WATER	FW
HANDRAIL	HDL	SURFACE WATER	SW
IRON RAILINGS	IRF	UNABLE TO LIFT	UTL
LARCH LAP FENCE	LLF	WATER LEVEL	WL
MISCELLANEOUS FENCE	MSF		
PALISADE FENCE	PSF		
PICKET FENCE	PKF		
POST AND CHAIN FENCE	PCF	CONCRETE	Cc
POST AND RAIL FENCE	PRF	BRICK PAVING	BP
POST AND WIRE FENCE	PWF	FLOWERBED	FB
SECURITY FENCE	SCF	PAVING SLABS	PS
STOCK WIRE FENCE	SWF	RETAINING WALL	RWall
TRELLIS FENCING	TLF	SCALTINGS	Scalp
WIRE MESH FENCE	WMF	TACTILE PAVING	Tac

SURFACE INFORMATION

FEATURE INFORMATION

BOLLARD	BO	NAME PLATE	NP
TELECOMS IC	BTIC	NOTICE BOARD	NB
BUS STOP	BS	POST	P
CABLE TELEVISION IC	CATV	RAIN WATER PIPE	RWP
EARTHING ROD	ER	ROAD SIGN	RS
ELECTRICITY CABLE PIT	ELCP	RODDING EYE	RE
ELECTRICITY POLE	EP	SERVICE MARKER POST	SMP
FIRE HYDRANT	FH	SOIL VENT PIPE	SVP
FLAG POLE	FP	STOP VALVE	SV
GUIDE POST	GP	TELEGRAPH POLE	TP
INSPECTION COVER	IC	TRAFFIC SIGNAL	TS
LAMP POST	LP	TRAFFIC SIGNALS IC	TSIC
LETTER BOX	LB	WASH OUT	WO
KERB OUTLET	KO	WATER METER	WM

REVISIONS

Level Datum:
Levels are related to control network 9RR5

Grid:
Grid is related to control network 9RR5

Northpoint:
The Northpoint position shown on this drawing has been located as accurately as possible, but is only indicative of true North

ENCOMPASS SURVEYS

Encompass Surveys Ltd
Yarmouth House
1300 Parkway
Solent Business Park
Whiteley, Fareham
Hampshire, PO15 7AX

Tel: (+44)2380 692002 Email: info@encompass-surveys.co.uk
Website: encompass-surveys.co.uk

Client:	Boklok		
Survey Location:	Fulbeck Avenue Worthing BN13 3RS		
Survey type:	Topographical	Scale:	1:250@A1
Drawing ref:	ENC_9RR5_KERBDRAIN	Date:	18.09.2024
Drawn/QA:	JM/JN	Plot No.	1

APPENDIX 6 NON RETURN VALVE AND FLOW CONTROL PHOTOS

Photos received from John Reilly Civil Engineering
05/06/2025

SWS5 - Non Return Valve



SWS4 - Vortex Flow Control



SWS4 - Vortex Flow Control



SWS4 - Vortex Flow Control




SWS5 - Non Return Valve

RGP - Transport Planning and Infrastructure Design Consultants

enquiries@rgp.co.uk

www.rgp.co.uk

Surrey Office Shackleford Suite, Mill Pool House, Godalming, Surrey GU7 1EY
London Office 10 York Road, London SE1 7ND

T: 01483 861 681
T: 020 7078 9662

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