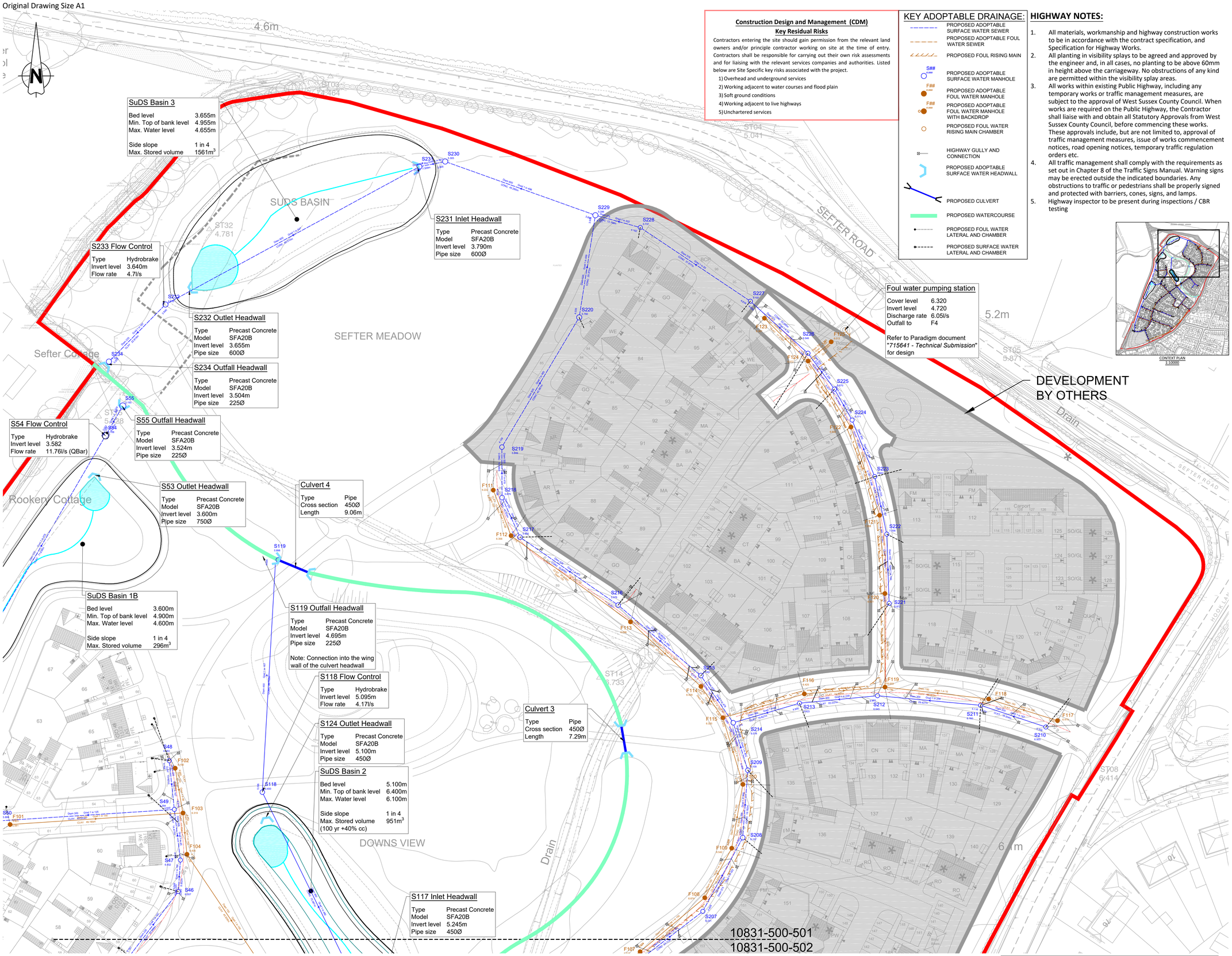
Original Drawing Size A1




## SuDS Basin 3

| | |
|---|---|
| Bed level | 3.655m |
| Min. Top of bank level | 4.955m |
| Max. Water level | 4.655m |
| Side slope | 1 in 4 |
| Max. Stored volume | 1561m³ |

## S231 Inlet Headwall

| | |
|---|---|
| Type | Precast Concrete |
| Model | SFA20B |
| Invert level | 3.790m |
| Pipe size | 600Ø |

## S233 Flow Control

| | |
|---|---|
| Type | Hydrobrake |
| Invert level | 3.640m |
| Flow rate | 4.7l/s |

## S232 Outlet Headwall

| | |
|---|---|
| Type | Precast Concrete |
| Model | SFA20B |
| Invert level | 3.655m |
| Pipe size | 600Ø |

## S234 Outfall Headwall

| | |
|---|---|
| Type | Precast Concrete |
| Model | SFA20B |
| Invert level | 3.504m |
| Pipe size | 225Ø |

## S54 Flow Control

| | |
|---|---|
| Type | Hydrobrake |
| Invert level | 3.582 |
| Flow rate | 11.76l/s (QBar) |

## S55 Outfall Headwall

| | |
|---|---|
| Type | Precast Concrete |
| Model | SFA20B |
| Invert level | 3.524m |
| Pipe size | 225Ø |

## S53 Outlet Headwall

| | |
|---|---|
| Type | Precast Concrete |
| Model | SFA20B |
| Invert level | 3.600m |
| Pipe size | 750Ø |

## Culvert 4

| | |
|---|---|
| Type | Pipe |
| Cross section | 450Ø |
| Length | 9.06m |

## SuDS Basin 1B

| | |
|---|---|
| Bed level | 3.600m |
| Min. Top of bank level | 4.900m |
| Max. Water level | 4.600m |
| Side slope | 1 in 4 |
| Max. Stored volume | 296m³ |

## S119 Outfall Headwall

| | |
|---|---|
| Type | Precast Concrete |
| Model | SFA20B |
| Invert level | 4.695m |
| Pipe size | 225Ø |

Note: Connection into the wing wall of the culvert headwall

## S118 Flow Control

| | |
|---|---|
| Type | Hydrobrake |
| Invert level | 5.095m |
| Flow rate | 4.17l/s |

## S124 Outlet Headwall

| | |
|---|---|
| Type | Precast Concrete |
| Model | SFA20B |
| Invert level | 5.100m |
| Pipe size | 450Ø |

## SuDS Basin 2

| | |
|---|---|
| Bed level | 5.100m |
| Min. Top of bank level | 6.400m |
| Max. Water level | 6.100m |
| Side slope | 1 in 4 |
| Max. Stored volume (100 yr +40% cc) | 951m³ |

## Culvert 3

| | |
|---|---|
| Type | Pipe |
| Cross section | 450Ø |
| Length | 7.29m |

## S117 Inlet Headwall

| | |
|---|---|
| Type | Precast Concrete |
| Model | SFA20B |
| Invert level | 5.245m |
| Pipe size | 450Ø |

## Foul water pumping station

| | |
|---|---|
| Cover level | 6.320 |
| Invert level | 4.720 |
| Discharge rate | 6.05l/s |
| Outfall to | F4 |

Refer to Paradigm document "*715641 - Technical Submission*" for design

## Construction Design and Management (CDM)

### Key Residual Risks

Contractors entering the site should gain permission from the relevant land owners and/or principle contractor working on site at the time of entry. Contractors shall be responsible for carrying out their own risk assessments and for liaising with the relevant services companies and authorities. Listed below are Site Specific key risks associated with the project.

1) Overhead and underground services
2) Working adjacent to water courses and flood plain
3) Soft ground conditions
4) Working adjacent to live highways
5) Unchartered services

## KEY ADOPTABLE DRAINAGE:

- PROPOSED ADOPTABLE SURFACE WATER SEWER
- PROPOSED ADOPTABLE FOUL WATER SEWER
- PROPOSED FOUL RISING MAIN
- PROPOSED ADOPTABLE SURFACE WATER MANHOLE
- PROPOSED ADOPTABLE FOUL WATER MANHOLE
- PROPOSED ADOPTABLE FOUL WATER MANHOLE WITH BACKDROP
- PROPOSED FOUL WATER RISING MAIN CHAMBER
- HIGHWAY GULLY AND CONNECTION
- PROPOSED ADOPTABLE SURFACE WATER HEADWALL
- PROPOSED CULVERT
- PROPOSED WATERCOURSE
- PROPOSED FOUL WATER LATERAL AND CHAMBER
- PROPOSED SURFACE WATER LATERAL AND CHAMBER

## HIGHWAY NOTES:

1. All materials, workmanship and highway construction works to be in accordance with the contract specification, and Specification for Highway Works.
2. All planting in visibility splays to be agreed and approved by the engineer and, in all cases, no planting to be above 60mm in height above the carriageway. No obstructions of any kind are permitted within the visibility splay areas.
3. All works within existing Public Highway, including any temporary works or traffic management measures, are subject to the approval of West Sussex County Council. When works are required on the Public Highway, the Contractor shall liaise with and obtain all Statutory Approvals from West Sussex County Council, before commencing these works. These approvals include, but are not limited to, approval of traffic management measures, issue of works commencement notices, road opening notices, temporary traffic regulation orders etc.
4. All traffic management shall comply with the requirements as set out in Chapter 8 of the Traffic Signs Manual. Warning signs may be erected outside the indicated boundaries. Any obstructions to traffic or pedestrians shall be properly signed and protected with barriers, cones, signs, and lamps.
5. Highway inspector to be present during inspections / CBR testing

## GENERAL NOTES:

1. Do not scale from this drawing.
2. All dimensions are in metres unless otherwise stated.
3. Brookbanks Consulting Ltd has prepared this drawing for the sole use of the client. The drawing may not be relied upon by any other party without the express agreement of the client and Brookbanks Consulting Ltd. Where any data supplied by the client or from other sources has been used, it has been assumed that the information is correct. No responsibility can be accepted by Brookbanks Consulting Ltd for inaccuracies in the data supplied by any other party. The drawing has been produced based on the assumption that all relevant information has been supplied by those bodies from whom it was requested.
4. No part of this drawing may be copied or duplicated without the express permission of Brookbanks Consulting Ltd.
5. All Brookbanks Consulting drawings should be read in conjunction with other relevant Brookbanks Consulting drawings and any drawings produced by third parties connected with this project.
6. Any existing services shown on this drawing are not necessarily complete, nor is their location with regard to the position and depth precise. It is the contractors responsibility to liaise with all relevant services companies to ensure that all services are accurately located and adequately protected during construction. The contractors attention is drawn to the fact that it is highly likely that street lighting cables (or other private supplies) are present, which are not shown on incumbent services drawings.
7. Any discrepancies between the information displayed in this drawings and others to be reported to the engineer before the commencement of works.
8. Any damage caused to existing footways, roads or other third party property to be made good to the county engineers requirements.

## ADOPTABLE DRAINAGE NOTES:

1. All adoptable drainage to be in accordance with Sewerage Sector Guidance (SSG) Appendix C - Design and Construction Guidance (DCG)
2. All Sustainable Urban Drainage (SuDS) to be in accordance with CIRIA report C753 "*The SuDS Manual*" and supporting documents.
3. Contractor to check all existing invert levels and watercourse bed/water levels for outfalls on site ahead of commencing work.
4. All lateral connections to be 150mm diameter unless noted otherwise.
5. Sewers with less than 1.2m cover beneath highways and 0.9m cover elsewhere to have special concrete cover slab protection in accordance with the adopting authority's requirements. Flexibility of pipeline to be maintained.
6. Bedding to all remaining pipework is to be class S granular bed and surround.
7. Pipes up to 300mm diameter shall be either vitrified clay or plastic. Pipes greater than 300mm diameter shall be precast concrete or plastic, excluding those crossing beneath watercourses. All pipes to be in accordance with the adopting authority's approved manufacturers. All pipes to be to BS EN 1295 with either sleeved of spigot & socket flexible joints, and shall satisfy the minimum crushing strengths stated below:

| | | |
|---|---|---|
| 150Ø - 22kN/m² | 375Ø - 45kN/m² | 750Ø - 90kN/m² |
| 225Ø - 28kN/m² | 450Ø - 54kN/m² | 825Ø - 99kN/m² |
| 300Ø - 36kN/m² | 600Ø - 72kN/m² | |

| | | | | |
|---|---|---|---|---|
| C | Drainage levels amended, details added, notes updated | DC | DC | RM | 01.04.22 |
| B | Key amended | DC | DC | RM | 07.02.22 |
| A | Amended as per comments received | DC | DC | RM | 21.01.22 |
| - | First issue | CL | JI | JI | 14.12.21 |


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Bellway

Hook Lane
Pagham

# Adoptable Drainage Layout Sheet 1 of 4

| Status | Status Date |
|---|---|
| Tender | Jan 2022 |
| **Drawn** / **Checked** | **Date** |
| CL / JI | 14.12.2021 |
| **Scale** / **Number** | **Rev** |
| 1:500 / 18031-500-501 | C |

0 10 20 30 40 50
METRES


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P:\10831\CAD\BCL\Working Drawings\10831-500-501C,502C,503C,504C Adoptable Drainage Layout.dwg

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR COMMENCE SITE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT HIS OWN RISK.