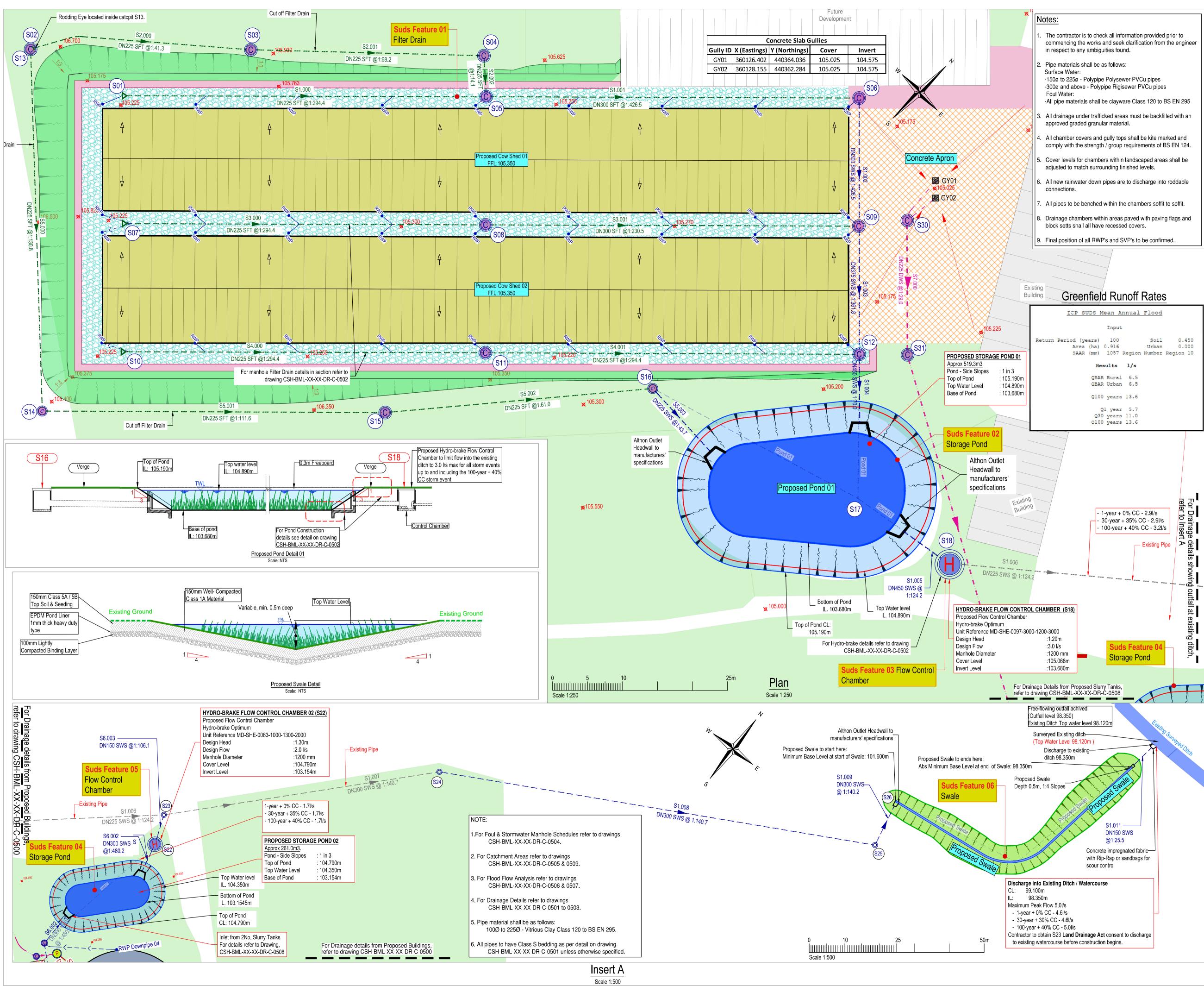
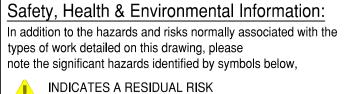
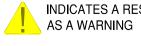


Appendix D Drainage Strategy Drawings







INDICATES A RESIDUAL RISK

and described below:

Construction/Maintenance/Cleaning/Demolition Refer to Drawing:

General Notes:

1. Do not scale from this drawing.

2. All dimensions are in millimetres (mm), all levels in metres (m) unless noted otherwise.

3. Discrepancies or omissions are to be reported to the Engineer prior to work commencing.

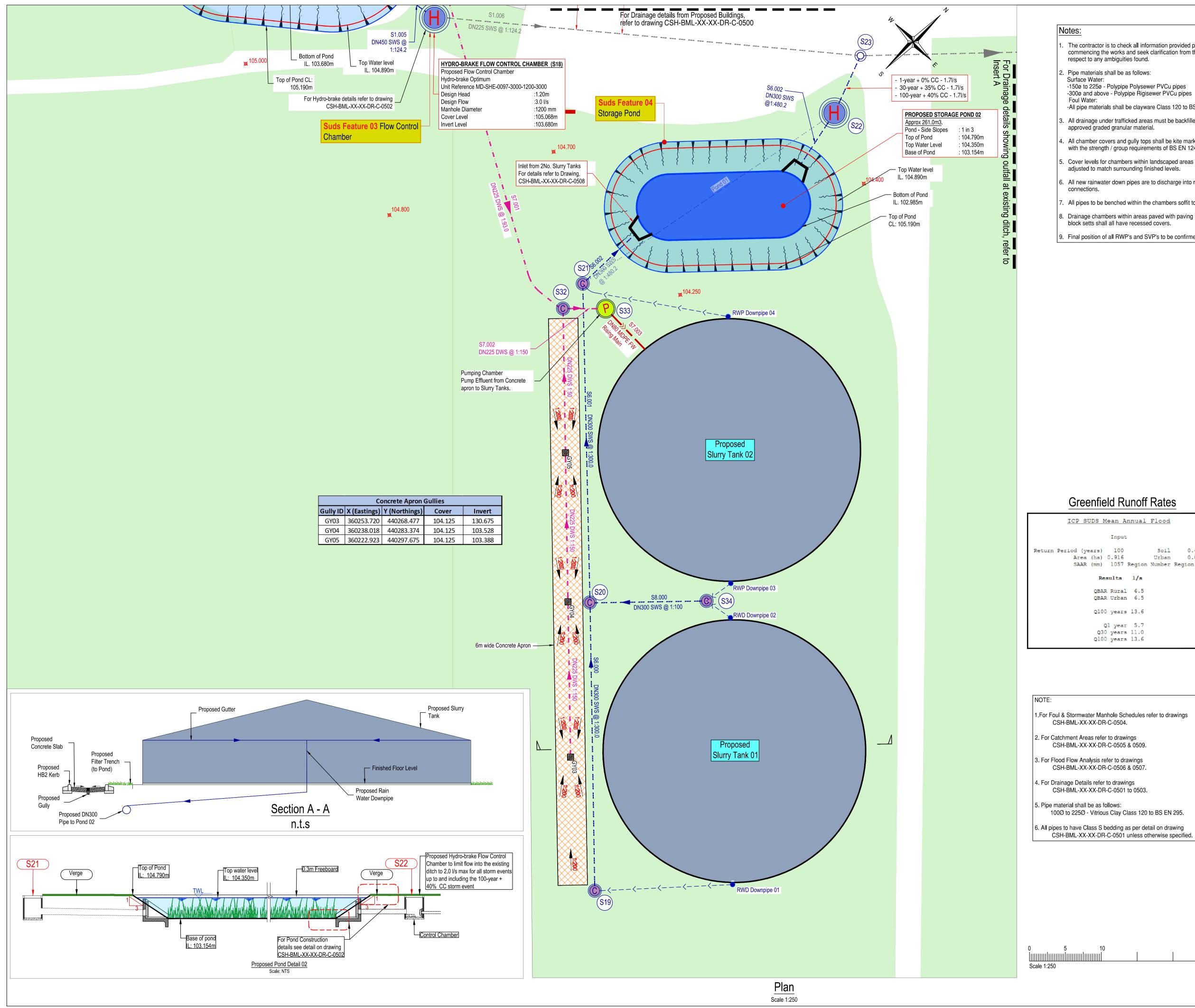
4. Materials and workmanship are to comply in all respects with current British Standard Specifications, Codes of Practice, and Building Regulations Approved Documents.

5. The copyright of this drawing is vested in the Engineer and must not be copied or reproduced without written consent.

6. The Contractor is to check and verify all building and site dimensions, levels and sewer invert levels at connection points before work commences.

7. This drawing is to be read in conjunction with all relevant specifications and drawings issued by the Engineer, Architect and other Specialists. Drainage Kev

		-			
DNXXX SWS @ 1:XXX.X Proposed Stormwater Sewer					
DNXXX SFT @ 1:XXX			Proposed Filter Drain		
DNXX	X DWS @ 1:)	XXX	Proposed Dirty Water Sewer		
	(0) (sox)	Proposed Stormwater Manhole		
		S0X)	Proposed Ridgistorm Separate Catch	npit	
		S0X)	Proposed Stormwater Hydro-brake	·	
		>	DN150 Gully / RWP Connector		
F	RWP•		Proposed Rain Water Pipe		
			Proposed Rodding Eye		
	FFL:XX.XXX	1	Proposed Finish Floor Level		
		, 	Proposed Pumping Station. Refer		
			CSH-BML-XX-XX-DR-C-0503 for	details.	
	»— —		Proposed Rising Main Proposed Inspection Chamber wi	th Grilled	
	X DWS	GYXX	Cover. For details Refer to drawir CSH-BML-XX-XX-DR-C-0503		
	◆ ^{XX.XXX}		Design Levels		
P06	IW/AM	28/02/202	24 Drainage details updated		
P05	DH/AM	06/02/202	24 Additional Drainage Information a	dded	
P04	DH/AM	26/01/202	24 Additional Drainage Information a	dded	
			3 Additional Drainage Information a	dded	
P03	DH/AM	10/08/23			
P03 P02	DH/AM DH/AM	10/08/23	3 Preliminary Issue		
P02 P01 Rev	DH/AM RA/GM By / Chk'd RELI s drawin	21/07/23 05/04/23 Date			
P02 P01 Rev PI Thi Clien Barr 1 Birc	DH/AM RA/GM By / Chk'd RELI s drawin t t t t t t t t t t t t t t t t t t t	21/07/23 05/04/23 Date MIN g is not Ull Limited	3 For Discussion Description ARY DRAWIN t to be used for construct FTREALESTATE FTREALESTATE BarnsleyMars Cow Shed e Lane, Preston, PR3 2NY ed Surface Water e Plan Layout 01	tion	
P02 P01 Rev P1 Thi Clien Clien Black Worc WR3 Tel: Emai Web: Proje	DH/AM RA/GM By / Chk'd RELI s drawin t t t t t t t t t t t t t t t t t t t	21/07/23 05/04/23 Date MIN g is not Ull Limited	3 For Discussion Description ARY DRAWIN t to be used for construct FT REAL ESTATE FT REAL ESTATE BarnsleyMars Souk Cow Shed e Lane, Preston, PR3 2NY ed Surface Water	tion	
P02 P01 Rev P1 Thi Clien Back Word WR3 Tel: Emai Web: Proje	DH/AM RA/GM By / Chk'd RELI s drawin t t t t t t t t t t t t t t t t t t t	21/07/25 05/04/23 Date MIN g is not Ul Limited	3 For Discussion Description ARY DRAWIN t to be used for construct FTREALESTATE FTREALESTATE ARY DRAWIN t to be used for construct FTREALESTATE ARY DRAWIN all.co.uk Souk Cow Shed e Lane, Preston, PR3 2NY ed Surface Water e Plan Layout 01 Main Site Date 05/04/202	tion	
P02 P01 Rev P1 Thi Clien Black Worc WR3 Tel: Emai Web: Proje Draw	DH/AM RA/GM By / Chk'd RELI s drawin t t t t t t t t t t t t t t t t t t t	21/07/23 05/04/23 Date MIN g is not Ul Limited	3 For Discussion Description ARY DRAWIN t to be used for construct FTREALESTATE FTREALESTATE BarnsleyMars all.co.uk so.uk Dow Shed e Lane, Preston, PR3 2NY ed Surface Water e Plan Layout 01 Main Site Date 05/04/202	tion	
P02 P01 Rev P1 Thi Clien Clien Black Worc WR3 Tel: Emai Web: Proje Draw Black Worc WR3 Tel: Emai Uraw Draw	DH/AM RA/GM By / Chk'd RELI s drawin t t t t t t t t t t t t t t t t t t t	21/07/23 05/04/23 Date MIN g is not Ul Limited	3 For Discussion Description ARY DRAWIN t to be used for construct FIREALESTATE FIREALESTATE ARY DRAWIN all.co.uk all.co.uk Date 05/04/202 X-DR-C-0500	tion shall 3 <i>i</i> sion	
P02 P01 Rev P1 Thi Clien Clien Black Worc WR3 Tel: Emai Web: Proje Draw Black Worc WR3 Tel: Emai Uraw Draw	DH/AM RA/GM By / Chk'd RELI s drawin t t t t t t t t t t t t t t t t t t t	21/07/23 05/04/23 Date MIN g is not Ul Limited	3 For Discussion Description ARY DRAWIN t to be used for construct FIREALESTATE FIREALESTATE ARY DRAWIN all.co.uk all.co.uk Date 05/04/202 X-DR-C-0500	tion shall shall 3 rision 06	
P02 P01 Rev P1 Clien Clien Barr 1 Birc Black Worc WR3 Tel: Emai Web: Proje Draw Black Worc WR3 Tel: Emai Uraw Draw CS BML 100	DH/AM RA/GM By / Chk'd RELI s drawin RELI s drawin t t t t t t t t t t t t t	21/07/23 05/04/23 Date MIN g is not Il Limited	3 For Discussion Description ARY DRAWIN t to be used for construct FTREALESTATE FTREALESTATE All.co.uk so.uk Date OSVA1202 Nain Site Date 05/04/202 X-DR-C-0500	tion shall 3 vision 06 atus	



The contractor is to check all information provided prior to commencing the works and seek clarification from the engineer in

-All pipe materials shall be clayware Class 120 to BS EN 295 All drainage under trafficked areas must be backfilled with an approved graded granular material.

All chamber covers and gully tops shall be kite marked and comply with the strength / group requirements of BS EN 124.

Cover levels for chambers within landscaped areas shall be adjusted to match surrounding finished levels.

All new rainwater down pipes are to discharge into roddable

All pipes to be benched within the chambers soffit to soffit.

Drainage chambers within areas paved with paving flags and block setts shall all have recessed covers.

9. Final position of all RWP's and SVP's to be confirmed.

Safety, Health & Environmental Information: In addition to the hazards and risks normally associated with the types of work detailed on this drawing, please

note the significant hazards identified by symbols below, INDICATES A RESIDUAL RISK AS A WARNING



and described below:

Construction/Maintenance/Cleaning/Demolition Refer to Drawing:

General Notes:

1. Do not scale from this drawing.

2. All dimensions are in millimetres (mm), all levels in metres (m) unless noted otherwise.

3. Discrepancies or omissions are to be reported to the Engineer prior to work commencing.

4. Materials and workmanship are to comply in all respects with current British Standard Specifications, Codes of Practice, and Building Regulations Approved Documents.

The copyright of this drawing is vested in the Engineer and must not be copied or reproduced without written consent.

6. The Contractor is to check and verify all building and site dimensions, levels and sewer invert levels at connection points before work commences.

This drawing is to be read in conjunction with all relevant specifications and drawings issued by the Engineer, Architect and other Specialists.

Drainage Key:

DNXXX SWS @ 1:XXX.X	Proposed Stormwater Sewer
DNXXX SFT @ 1:XXX	Proposed Filter Drain
DNXXX DWS @ 1:XXX	Proposed Dirty Water Sewer
(O) (60X)	Proposed Stormwater Manhole
(C) (SOX)	Proposed Ridgistorm Separate Catchpit
	Proposed Stormwater Hydro-brake
>-	DN150 Gully / RWP Connector
RWP●	Proposed Rain Water Pipe
≻	Proposed Rodding Eye
FFL:XX.XXX	Proposed Finish Floor Level
	Proposed Pumping Station. Refer to drawing CSH-BML-XX-XX-DR-C-0503 for details.
	Proposed Rising Main
	Proposed Inspection Chamber with Grilled Cover. For details Refer to drawing CSH-BML-XX-XX-DR-C-0503
	Design Levels



This drawing is not to be used for construction

Client





Tel: 01905 330550 Email: design@barnsleymarshall.co.uk Web: www.barnsleymarshall.co.uk



Drawing

BarnsleyMarshal

Cow Shed Elmridge Lane, Preston,

PR3 2NY

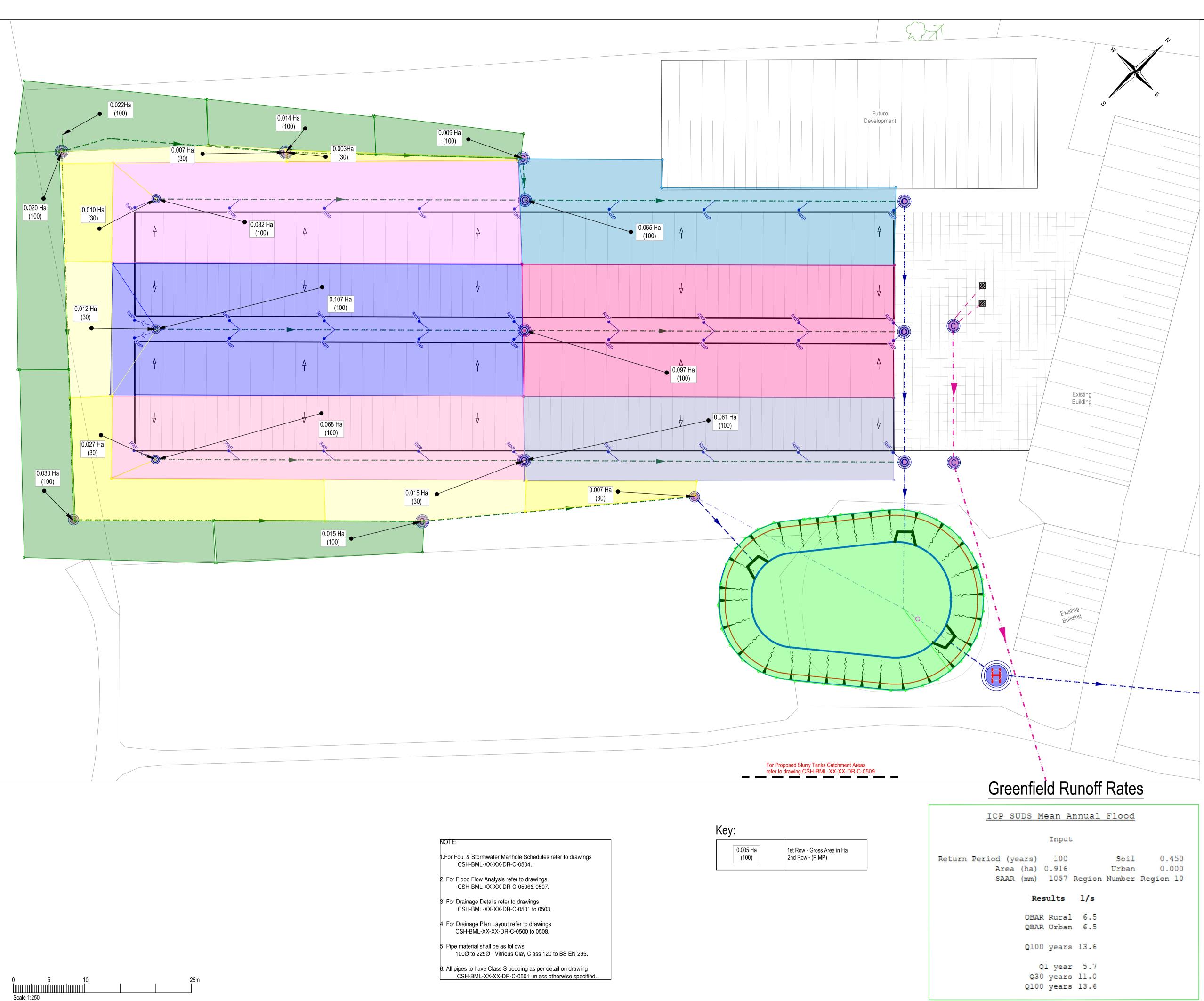
Proposed Surface Water Drainage Plan Layout 02 Slurry Tanks

By/Chk'd	DH/AM	Date	05/04/2023
Drawing No.	ML-XX-XX-	DR-C-0508	Revision P04
BML Job No.	5		Status –
Drawing Scale	at A1: As Shown		
CAD Filename		ion - Working\DWG\CSH-BML-XX-XX-DR-C-0500-0504	-0508 P05 - Drainage Plan Layo

Greenfield Runoff Rates

an Anr	nual	Flood		
Input				
.916		Urban	0.450 0.000 Region 10	
lts	1 /s			
Rural Urban				
years l	3.6			
year years] years]	1.0			

ble Schedules refer to drawings -0504.
o drawings -0505 & 0509.
r to drawings -0506 & 0507.
drawings -0501 to 0503.
ows: Clay Class 120 to BS EN 295.
dding as per detail on drawing -0501 unless otherwise specified.

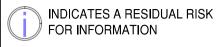


	_							Input	
ules refer to drawings		0.005 Ha (100)	1st Row - Gross Area in Ha 2nd Row - (PIMP)		Return Pe	eriod (ye Area		100	
ngs 507.						SAAR	(mm)	1057	Regio
0503.								sults	1/s
vings 508.								Rural Urban	
s 120 to BS EN 295.							Q100	years	13.6
per detail on drawing ess otherwise specified.							Q30	l year years years	11.0
				L					

Safety, Health & Environmental Information: In addition to the hazards and risks normally associated with the types of work detailed on this drawing, please note the significant hazards identified by symbols below,



INDICATES A RESIDUAL RISK AS A WARNING



and described below:

Construction/Maintenance/Cleaning/Demolition Refer to Drawing:

General Notes:

1. Do not scale from this drawing.

2. All dimensions are in millimetres (mm), all levels in metres (m) unless noted otherwise.

3. Discrepancies or omissions are to be reported to the Engineer prior to work commencing.

4. Materials and workmanship are to comply in all respects with current British Standard Specifications, Codes of Practice, and Building Regulations Approved Documents.

The copyright of this drawing is vested in the Engineer and must not be copied or reproduced without written consent.

6. The Contractor is to check and verify all building and site dimensions, levels and sewer invert levels at connection points before work commences.

This drawing is to be read in conjunction with all relevant specifications and drawings issued by the Engineer, Architect and other Specialists.

Drainage Key:

DNXXX SWS @ 1:XXX.X	Proposed Stormwater Sewer
DNXXX SFT @ 1:XXX	Proposed Filter Drain
DNXXX DWS @ 1:XXX	Proposed Dirty Water Sewer
🔘 💿	Proposed Stormwater Manhole
(C) (SOX)	Proposed Ridgistorm Separate Catchpit
	Proposed Stormwater Hydro-brake
>-	DN150 Gully / RWP Connector
RWP •	Proposed Rain Water Pipe
···· ···	Proposed Rodding Eye
FFL:XX.XXX	Proposed Finish Floor Level
	Proposed Pumping Station. Refer to drawing CSH-BML-XX-XX-DR-C-0503 for details.
	Proposed Rising Main
	Proposed Inspection Chamber with Grilled Cover. For details Refer to drawing CSH-BML-XX-XX-DR-C-0503

P04	IW/AM	0/02/2024	Drainage Plan Layout Updated
P03	IW/AM	26/01/24	Details Updated
P02	DH/AM	16/08/23	Details Updated
P01	KD/AM	20/07/23	Preliminary Issue
Rev	By / Chk'd	Date	Description

PRELIMINARY DRAWING This drawing is not to be used for construction

Client

FI REAL ESTATE MANAGEMENT BarnsleyMarshall Limited 1 Birch Court Blackpole East Worcester WR3 8SG

Tel: 01905 330550 Email: design@barnsleymarshall.co.uk Web: www.barnsleymarshall.co.uk



Project

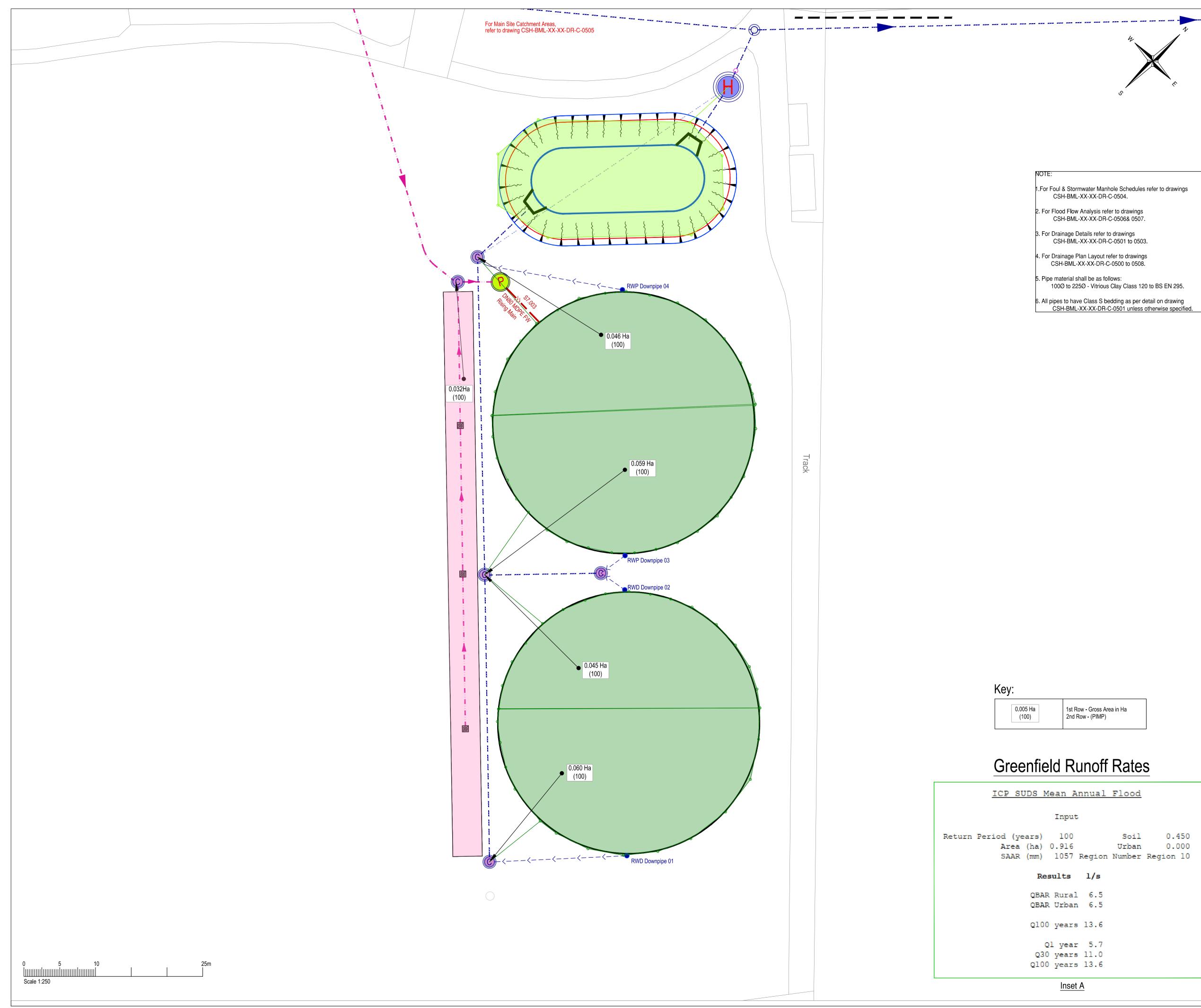
Drawing

Cow Shed Elmridge Lane, Preston, PR3 2NY

Catchment Areas

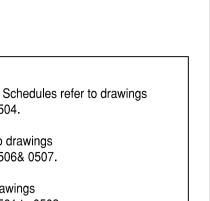
1 of 2

Drawing No.			Revision
CSH-B	ML-XX-XX-DR-C-	0505	P04
BML Job No.			Status
1000-0	5		-
1000-0	-		



J	5	10	
\$	Scale 1:250		

e Schedules refer to drawings 0504.	



Safety, Health & Environmental Information: In addition to the hazards and risks normally associated with the types of work detailed on this drawing, please note the significant hazards identified by symbols below,

INDICATES A RESIDUAL RISK AS A WARNING



and described below:

Construction/Maintenance/Cleaning/Demolition Refer to Drawing:

General Notes:

1. Do not scale from this drawing.

2. All dimensions are in millimetres (mm), all levels in metres (m) unless noted otherwise.

3. Discrepancies or omissions are to be reported to the Engineer prior to work commencing.

4. Materials and workmanship are to comply in all respects with current British Standard Specifications, Codes of Practice, and Building Regulations Approved Documents.

5. The copyright of this drawing is vested in the Engineer and must not be copied or reproduced without written consent.

6. The Contractor is to check and verify all building and site dimensions, levels and sewer invert levels at connection points before work commences.

7. This drawing is to be read in conjunction with all relevant specifications and drawings issued by the Engineer, Architect and other Specialists.

Drainage Key:

DNXXX SWS @ 1:XXX.X	Proposed Stormwater Sewer
DNXXX SFT @ 1:XXX	Proposed Filter Drain
DNXXX DWS @ 1:XXX	Proposed Dirty Water Sewer
(O) (SOX)	Proposed Stormwater Manhole
(C) (SOX)	Proposed Ridgistorm Separate Catchpit
	Proposed Stormwater Hydro-brake
>-	DN150 Gully / RWP Connector
RWP •	Proposed Rain Water Pipe
▶	Proposed Rodding Eye
FFL:XX.XXX	Proposed Finish Floor Level
	Proposed Pumping Station. Refer to drawing CSH-BML-XX-XX-DR-C-0503 for details.
	Proposed Rising Main
	Proposed Inspection Chamber with Grilled Cover. For details Refer to drawing CSH-BML-XX-XX-DR-C-0503



PRELIMINARY DRAWING This drawing is not to be used for construction



FI REAL ESTATE MANAGEMENT BarnsleyMarshall Limited 1 Birch Court Blackpole East Worcester WR3 8SG

Tel: 01905 330550 Email: design@barnsleymarshall.co.uk Web: www.barnsleymarshall.co.uk



Cow Shed Elmridge Lane, Preston, PR3 2NY

Drawing

Project

Catchment Areas

2 of 2

By/Chk'd	RA/GM	Date 05/04/2023
Drawing No.	ML-XX-XX-DR-0	C-0509 P03
BML Job No.	5	Status -
Drawing Scal	e at A1: 1:250	
CAD Filenam		G.CSH-BML-XX-XX-DR-C-0505-0509 P02 - Catchment Areas.dwg