

B Ground Floor Plan (GA) 100 Scale 1:100

KEY

- 1 Access

- Access
 Main college entrance
 Cafe/gallery entrance
 Cafe/gallery entrance
 Fire escape door
 New code-operated gate
 New Sheffield cycle stand for 2no. visitor cycles
 New cycle racks for 30no. student/staff cycles
 New foldable accessible stairlift
 New roof access ladder

- Glazing
 New double-glazed light-coloured powdercoated aluminium framed window
 New full height double-glazed light-coloured powdercoated aluminium picture window
 New glazed blocks
 New flat fixed rooflight
 New pitched rooflight within sawtooth roof
 New double-glazed light-coloured powdercoated aluminium framed door

3 Walls

3 Wais
3a New acoustic lining to party wall
3b New thermal lining to external wall
3c New red brickwork boundary wall
3d New half height red brickwork boundary wall with dark metal railings above
3e New grey fibre cement clad refuse/cycle store wall

4 Roofs
4a New grey flat roof membrane
4b New intensive green roof with gravel border
4c New biosolar roof (intensive green roof with PVs)
4d New light-coloured powdercoated aluminium coping

- 5 Services
- 5a New dark-coloured powdercoated aluminium rainwater goods to replace existing throughout
 5b New air source heat pump
 5c New MVHR unit
- 5d New photovoltaic panels

- 6 Landscaping
 6a New permeable dark-coloured brick paving
 6b New planted bed with brickwork border
 6c New tree within planted bed
 6d New low level planter for climbing plants
 6e New gravel infill to neighbouring driveway
 6f Neighbouring garden made good after works

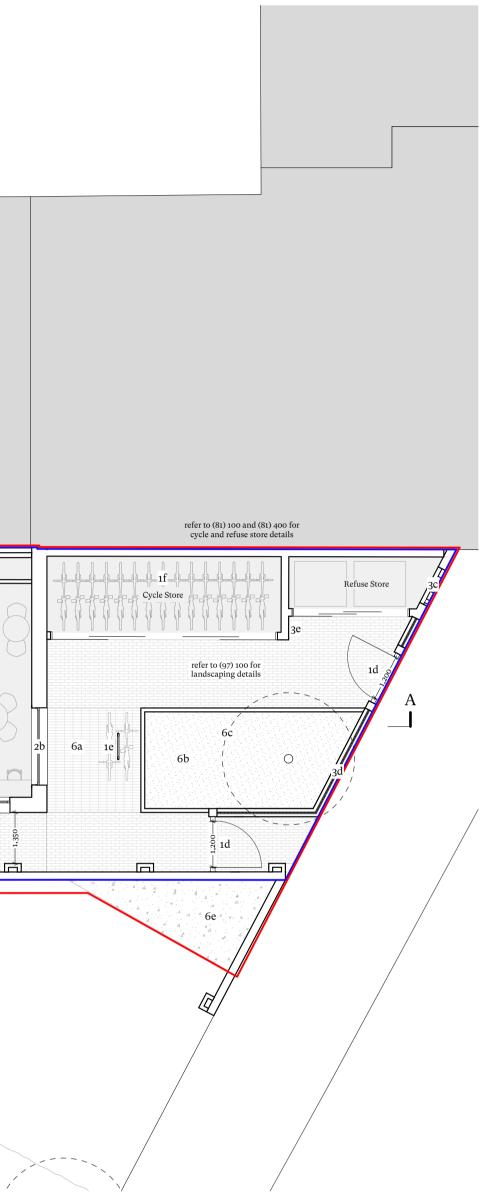
Swch. Cbd. 00.07 Lobby 00.12 Welfare Room 00.08 Staff WC Staff Room 00.10 -2,200 Access. WC Stair Core 1 0.06 00.05 Accounts Office Principal's Office 00.11 00.09 ╶╣╺┚ _6d_ 6a \bigcirc ---в 🗕

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Application site GIA = 819m² Applicant's land ownership GIA = 723m²

Proposed building Total GIA = 1311m²



Rev	Date	Issue	Drawn	Check
D	19/06/2023	Issued to Consultants for Coordination	SC	RD
Е	11/07/2023	Issued to Client for comment	SC	RD
F	17/07/2023	Design Freeze for Coordination	CW	SC
G	31/07/2023	Stage 3 Cost Issue	SC	RD
Н	09/08/2023	Issued to Consultants for Coordination	SC	RD
I	14/08/2023	Planning	SC	RD

CDC Studio

Studio. 17 Comberton Rd, Cambridge CB23 7BA 5-7 Tanner St, London, SE1 3LE info@cdcstudio.co.uk T. 01223 262413

Project :

81 Belsize Park Gardens

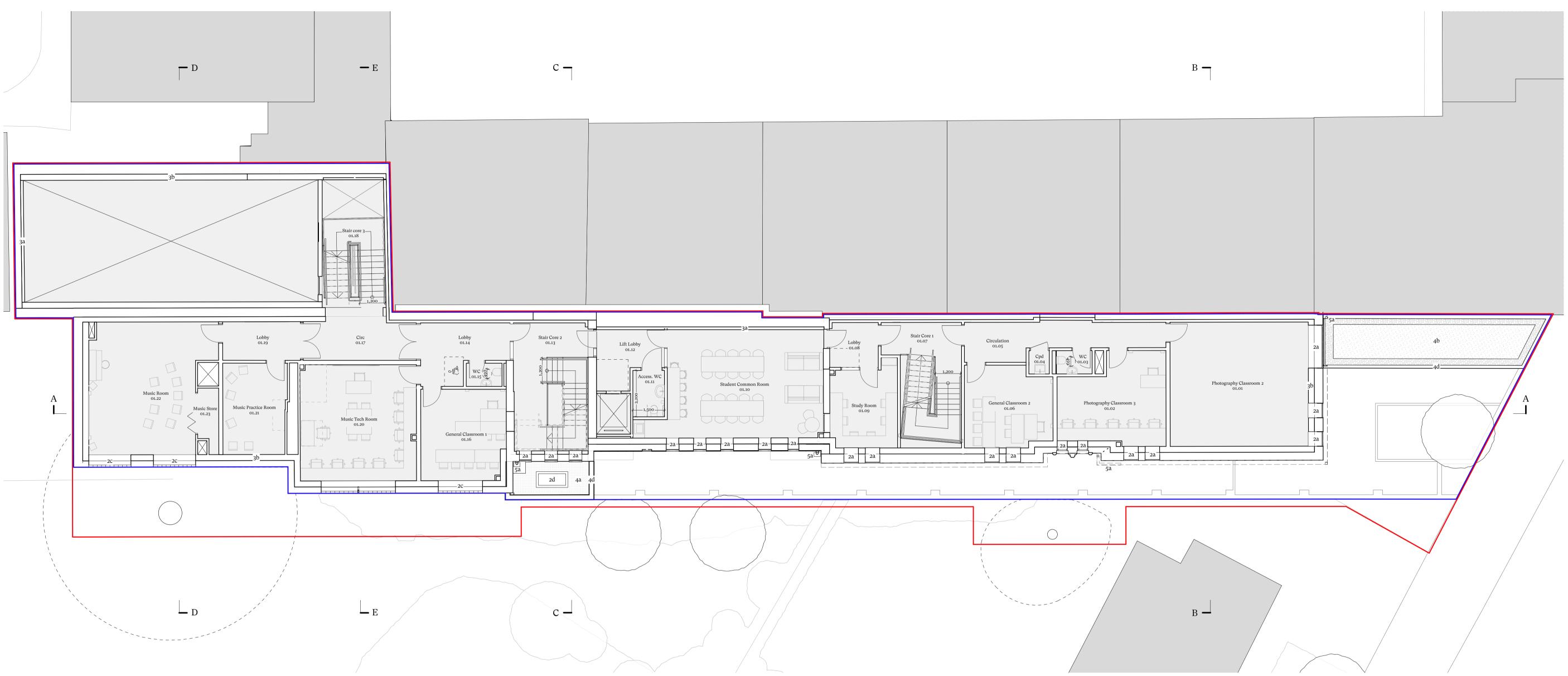
Client : Fine Arts College Ltd

Address :

81 Belsize Park Gardens, Belsize Park, London NW3 4NJ

Scale @ A1 : Date : 24/02/2023 1:100 Drawing Title : Proposed Ground Floor Plan

Drawing No. : Rev.: 4279 CDC XX GR DR A (GA) 100



A First Floor Plan (GA) 110 Scale 1:100

KEY

- Access
 Main college entrance
 Cafe/gallery entrance
 Fire escape door
 New code-operated gate
 New Sheffield cycle stand for 2no. visitor cycles
 New cycle racks for 30no. student/staff cycles
 New foldable accessible stairlift
 New roof access ladder

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cation site pplicant's land ownership GIA = 706m²

Proposed building Total GIA = 1311m²

Rev	Date	Issue	Drawn	Check
D	19/06/2023	Issued to Consultants for Coordination	SC	RD
Е	11/07/2023	Issued to Client for comment	SC	RD
F	17/07/2023	Design Freeze for Coordination	CW	SC
G	31/07/2023	Stage 3 Cost Issue	SC	RD
Н	09/08/2023	Issued to Consultants for Coordination	SC	RD
I	14/08/2023	Planning	SC	RD

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Project :

81 Belsize Park Gardens

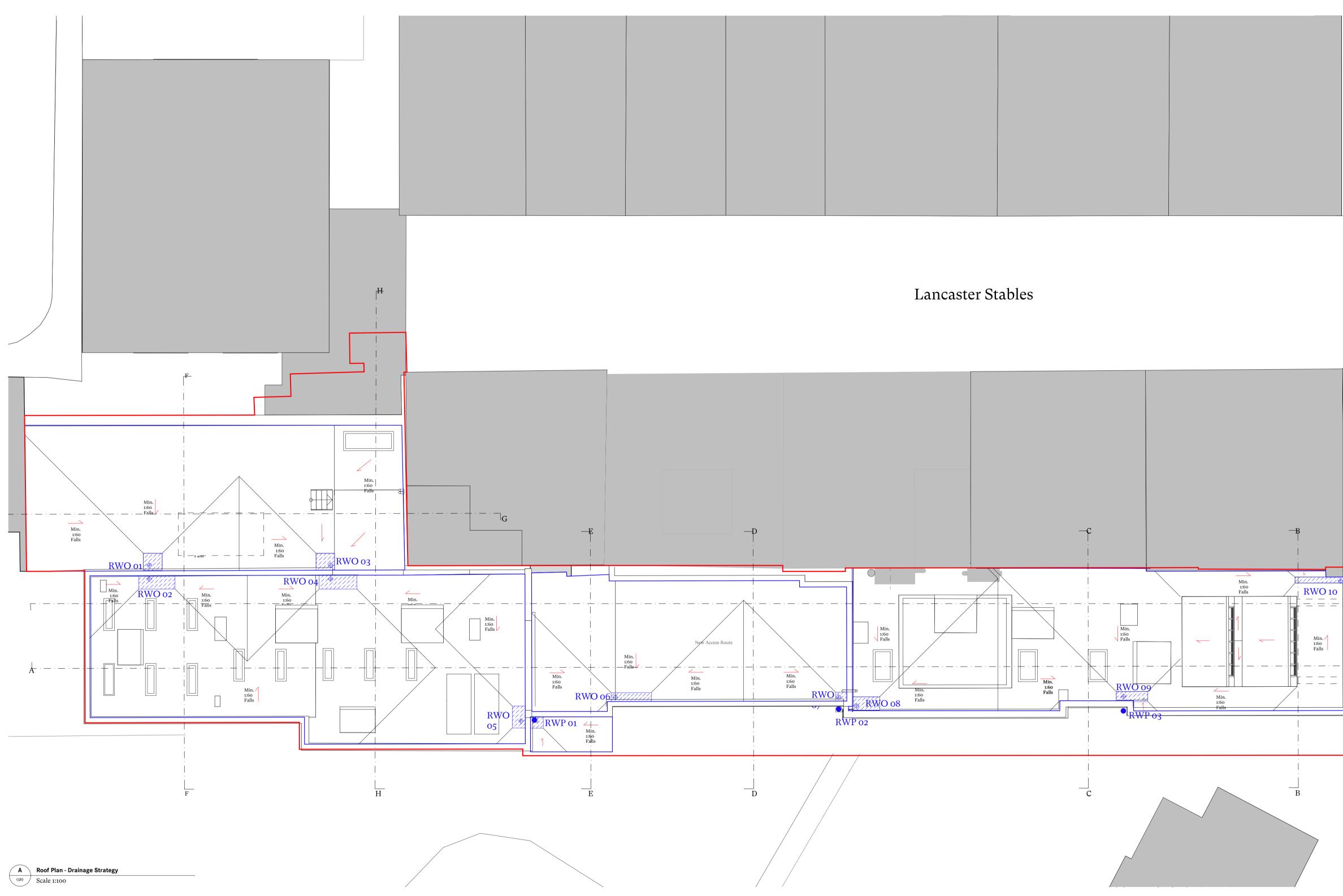
Client : Fine Arts College Ltd

Address :

81 Belsize Park Gardens, Belsize Park, London NW3 4NJ

Scale @ A1 : Date : 24/02/2023 1:100 Drawing Title : Proposed First Floor Plan

Drawing No. : Rev.: 4279 CDC XX 01 DR A (GA) 110



0 1 2 3 4 5 10 Metre Paper Scale 1:100

RWP 04 Ъ Min. 1:60 Falls $\overline{}$ ፤ __ · _ · _ ↓ Existing upstands in _____ ____ · ___ · ___ · ___ Existing upstands in Abeyance

28/07/2023 Stage 3 Cost Issue SC RD Rev Date Issue Drawn Check

CDC Studio

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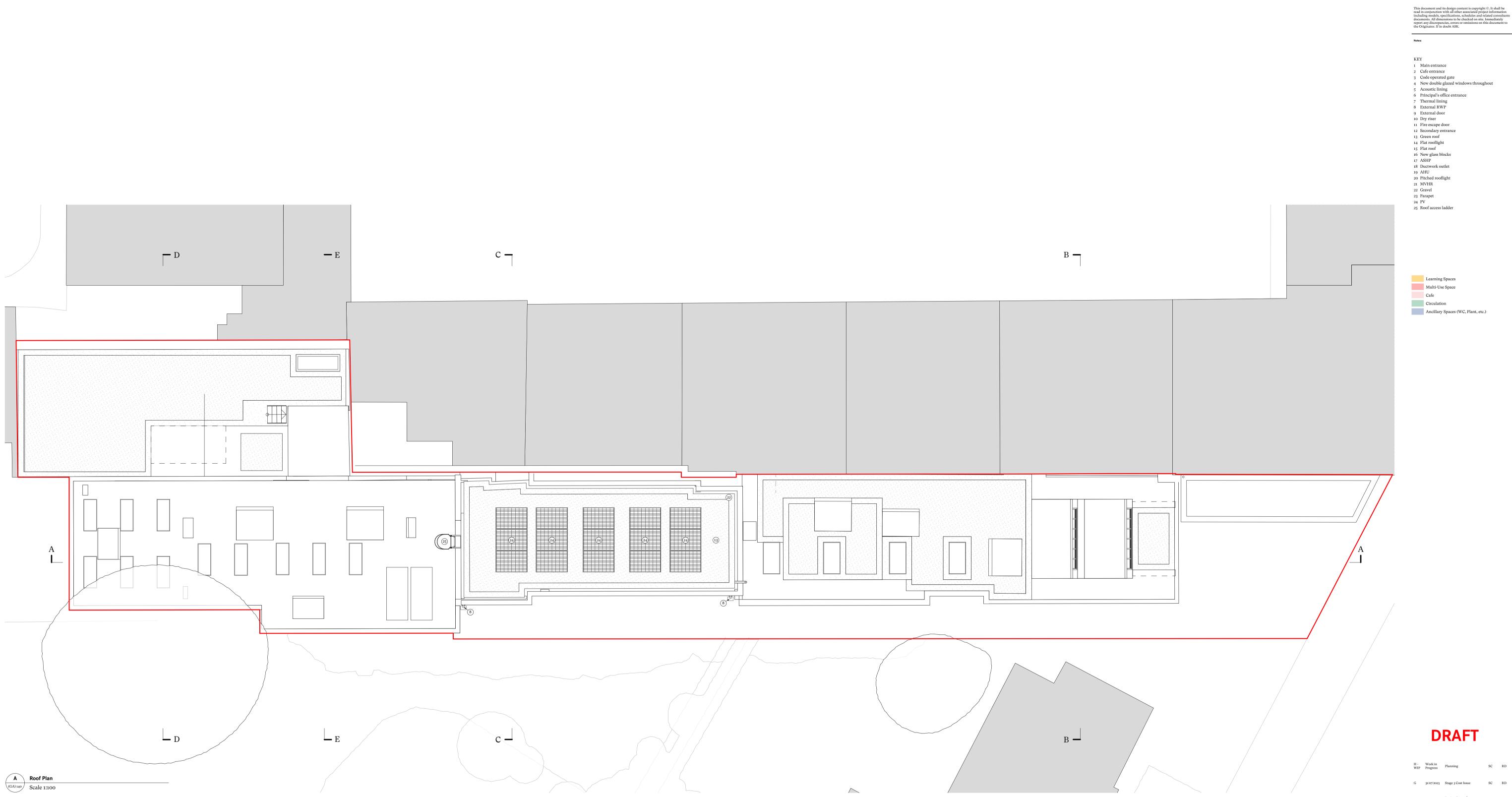
Address :

81 Belsize Park Gardens, Belsize Park, London NW3 4NJ

Scale @ A1 : Date : 30/06/2023 1:100 Drawing Title :

Rainwater Drainage Strategy - Roof Plan

Drawing No. : Rev.: 4279 CDC XX XX DR A (58)



Rev	Date	Issue	Drawn	Check
с	02/06/2023	Stage 3 issue to cost consultant	CW	SC
D	19/06/2023	Issued to Consultants for Coordination	SC	RD
Е	11/07/2023	Issued to Client for comment	SC	RD
F	17/07/2023	Design Freeze for Coordination	CW	SC
G	31/07/2023	Stage 3 Cost Issue	SC	RD
H - WIP	Work in Progress	Planning	SC	RD

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Project :

81 Belsize Park Gardens

Client : Fine Arts College Ltd

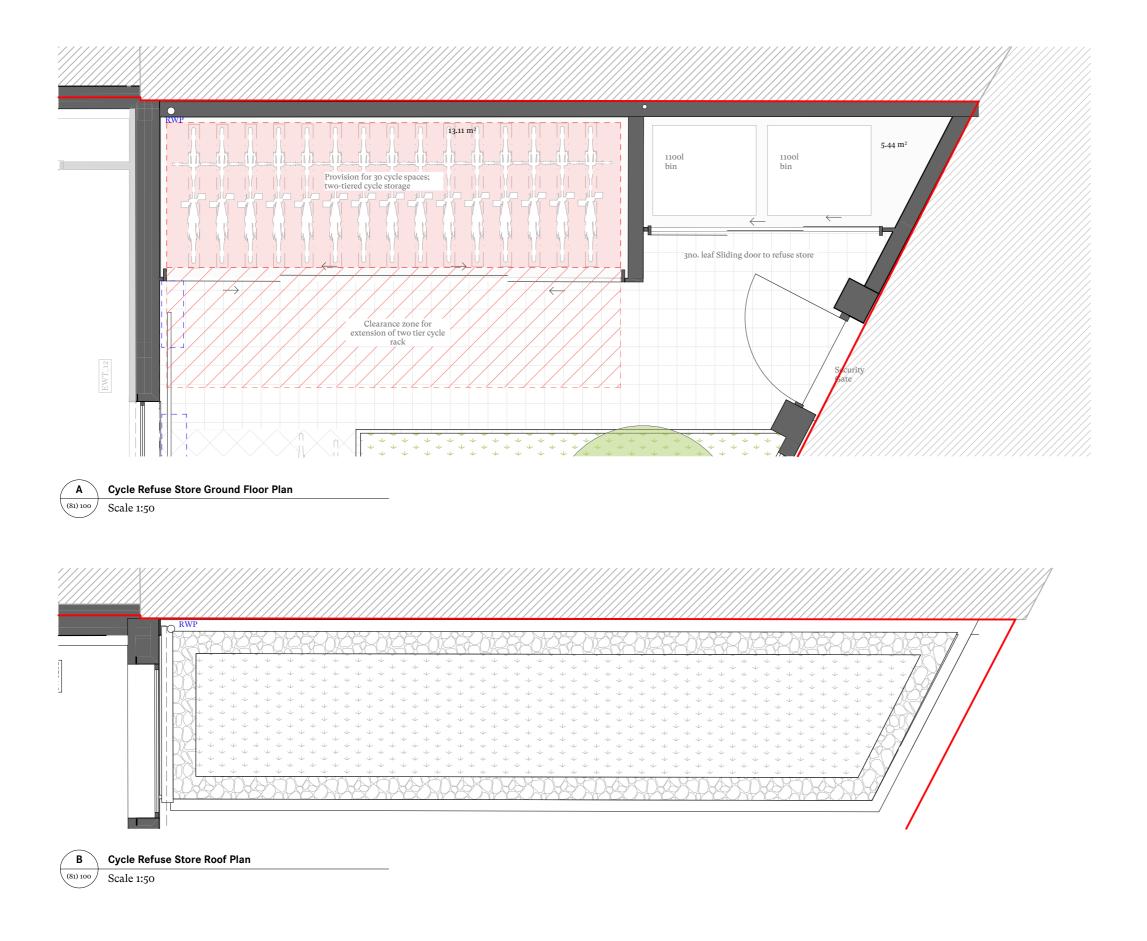
Address :

81 Belsize Park Gardens, Belsize Park, London NW3 4NJ

Scale @ A1 : Date : 24/02/2023 1:100 Drawing Title :

Proposed Roof Plan

Drawing No.: Rev.: 4279 CDC XX RL DR A (GA) 140-WIP



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Notes:

С	CDC Studio				
Rev	Date	Issue	Drawn	Check	
-	07/07/2023	DRAFT Issue to Planning	CW	SC	
А	28/07/2023	Stage 3 Cost Issue	SC	RD	

Studio. 17 Comberton Rd, Cambridge CB23 7BA 5-7 Tanner St, London, SE1 3LE info@cdcstudio.co.uk T. 01223 262413

Project :

81 Belsize Park Gardens

Client :

Fine Arts College Ltd

Address :

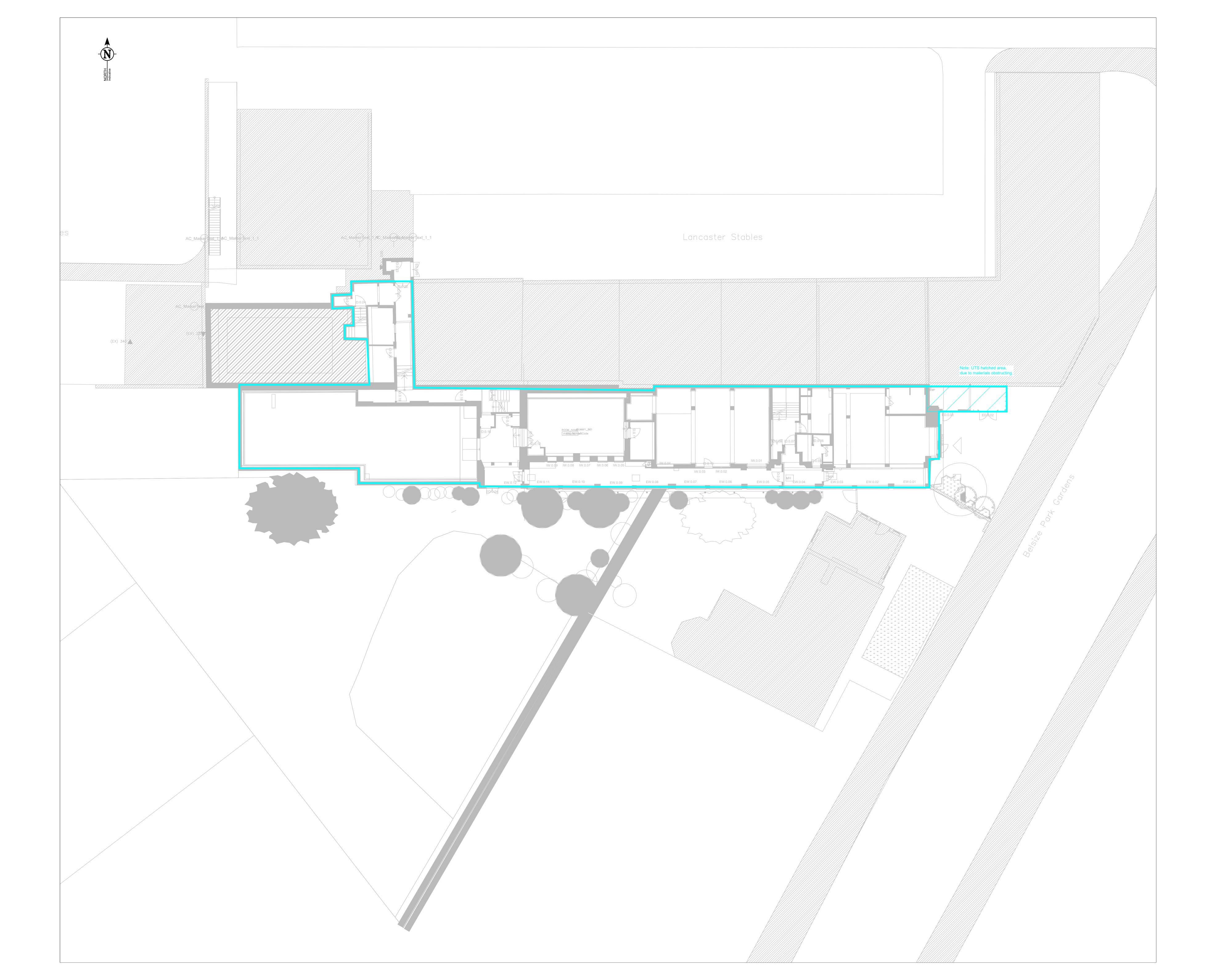
81 Belsize Park Gardens, Belsize Park, London NW3 4NJ

Date :

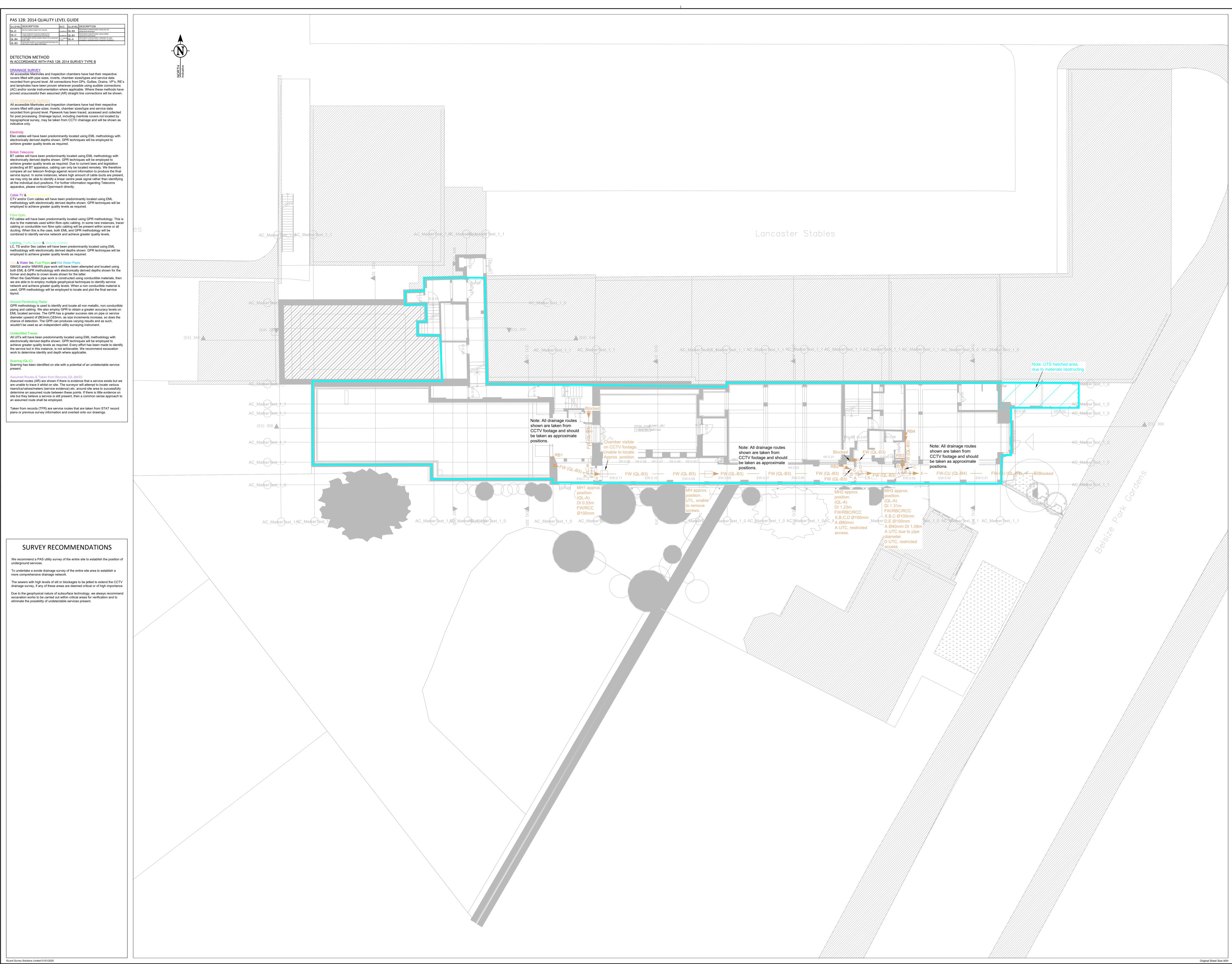
Scale @ A3 : 1:50

Drawing Title : Cycle and Refuse Store Plans

Drawing No. : 4279 CDC XX A (81) 100 Rev.:



Appendix B – CCTV Drainage Survey



			-	-	IONS	
UTILITIES & ABBREVIATIO			,			
ABBREVIATIO 1D 5C 1 Duct 5 Cabi Ø Diameter		DCr DI	Depth To Crown Depth To Invert	RBC RCC	-	Brick Chamber Conc Chamber
AC Audible Conr AG Above Groun		DS DTB	Depth To Silt Depth To Base	RE	Rodding Eye Survey Aban	
AR Assumed Ro BL Base Level		DTW DTS	Depth To Water Depth To Surcharge		Silt Level Surcharge Le	
CB Concrete Ber CBC Circular Brick CCC Circular Conc	k Chamber	EBD EOT IBD	External Backdrop End Of Trace ––– Internal Backdrop	TFR UTC UTDO	Taken From Unable To Co Unable To De	
CL Cover Level CPC Circ Plastic C		IL OH	Invert Level Overhead	UTL UTS	Unable To Lif	ft
CrL Crown Level CU Camera Unde		PDR RB ●	Poor Depth Respons Rest Bend	se UTT WL	Unable To Tr Water Level	race
BT O/BT COM	OVE		BT CABLE(S)			•
CTV DUCT	CAB EMP	BLE TV C. PTY DUC	1		6	
FO	OVE FIBF	ERHEAD REOPTIC	CABLE(S) ELECTRIC CABLE(CABLE(S)	S)	-(,	Ŋ-
FUEL GM GS	FUE GAS GAS				Ē	E §
GPR HW	GRC HOT	DUND PE	ENETRATING RADA	R (GPR) TR	ACE	NORTH Indicative
LC OIL SCAR	OIL I	PIPE(S) IBLE SCA	N	ote:	UTILITIES ((GENERAL	COMMENT BOX NOTES)
SEC TC TS	TELI		ABLE(S)	<u>.37m</u>	DEPTH TO	SERVICE
UIS		DENTIFIE DENTIFIE	ED SERVICE ED TRACE			
	WA1	TER MAII TER SER ØBINED S	RVICE			
CW RM	CON EFFI	MBINED \	WATER RISING MAI WATER	IN AUDIE	BLE CONNECT	
	RISI	JL WATE	R RISING MAIN N	SERV	ICE ABOVE G	
\$W RM	— — SUR → SUR	RFACE W RFACE W	ATER SEWER ATER RISING MAIN ION EXTENTS	۱ —	RA UNDER W	
DRAWING NOTE	s					-
All below ground	-	wn hav	/e been identifie	d from ab	ove ground	d without
excavation. Surve GPR) methods to						
Results using thes are carried out for						excavations
Any areas on the						
necessarily clear o been identified du	uring our inv	vestiga	tions. All reason	able care	and norma	al good
practice should st		-				
Certain types of solucting where dire	ect access	can no	ot be achieved fo			
alternative locatin	0					
Survey Solutions	ness or use	e of the	service records	supplied	to or by Su	irvey
Solutions cannot l esponsible for an						neid
Depths obtained u and should be trea						
and should be treaservices are gene	erally taken	to the	centre of a featu	ure, GPR	depths to the	he top of a
eature and draina Drainage pipe size	U .					
should be treated isually will be tak	as approx	imate.	Pipe dimensions			
All services, drain	nage and ut	tilities r	outes are assum			
oints, unless oth unless specifically	erwise stat	ted. The	e numbers of ca	bles in ru	ns will not l	be shown
Services, utilities	and feature	es may	not have been s	surveyed		
easonably visible	e or access	ible at i	the time of surve	ey.		
Survey Solutions he topographical					ess or accu	racy of either
All critical dimens						
errors or discrepa he digital data is	the same a	as the p				
netres unless oth			ify of the	-:لمان	nonci	
The contractor mu and drainage deta						ບາອາຣ, utilities
C Land Survey So within this docum						
using the data oth						
Do not scale from	this drawin	ng.				
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Appendix C - Proposed Drainage Strategy, Supporting Calculations & Correspondence



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Project:		Date:			
81 BELSIZE PARK GARDENS		31/07/2023			
Project No:		Designed by:	Checked by:	Approved By:	
22064		FJ	СН	СН	MHA - STRUCTURAL DESIGN
Report Details:		MHA STRUCTURAL			
Type: Inflows		London: +44 (0)			DESIGN
Storm Phase: Existing Network			(0)1223 776340		
		mhastructuralde	esign.com		
1.000 - 172.93m					Type : Catchment Area
Area (ba)		0.017			
Area (ha)		0.017			
Dynamic Sizing					
Runoff Method	Time of Concentration	1			
Summer Volumetric Runoff	0.750				
Winter Volumetric Runoff	0.840				
Time of Concentration (mins)	5 100				
Percentage Impervious (%) Urban Creep (%)	0				
	0	1			
ᆁ// 2.000 - 60.01m					Type : Catchment Area
•					
Area (ha)		0.006			
Dynamic Sizing	-				
Runoff Method	Time of Concentration				
Summer Volumetric Runoff Winter Volumetric Runoff	0.750 0.840				
Time of Concentration (mins)	5				
Percentage Impervious (%)	100				
Urban Creep (%)	0				
1.000 - 22.04m					Type : Catchment Area
Area (ha)		0.002			
Dynamic Sizing		1			
Runoff Method Summer Volumetric Runoff	Time of Concentration				
Winter Volumetric Runoff	0.750 0.840				
Time of Concentration (mins)	5				
Percentage Impervious (%)	100				
Urban Creep (%)	0				
1.001 - 16.32m					Type : Catchment Area
Area (ha)		0.002			
Dynamic Sizing	7				
Runoff Method	Time of Concentration	1			
Summer Volumetric Runoff	0.750				
Winter Volumetric Runoff	0.840				
Time of Concentration (mins)	5				
Percentage Impervious (%) Urban Creep (%)	100 0				
	0	1			

		Date:			
81 BELSIZE PARK GARDENS		31/07/2023 Designed by:	Checked by:	Approved By:	⊣
Project No:			-		IMHA
22064 Report Details:		FJ MHA STRUCTURAL		СН	- MHA STRUCTURAL DESIGN
Type: Inflows		London: +44 (0			
Storm Phase: Existing Network			4 (0)1223 776340		DESIGN
J J		mhastructurald			
1.003 - 20.96m					Type : Catchment Area
Area (ha)		0.002			
		0.002			
Dynamic Sizing	7				
Runoff Method Summer Volumetric Runoff	Time of Concentration 0.750				
Winter Volumetric Runoff	0.840				
Time of Concentration (mins)	5]			
Percentage Impervious (%)	100 0				
Urban Creep (%)	0	1			
// 1.003 - 10.10m					Type : Catchment Area
		0.001			
Area (ha)		0.001			
Dynamic Sizing	7				
Runoff Method	Time of Concentration	1			
Summer Volumetric Runoff	0.750				
Winter Volumetric Runoff Time of Concentration (mins)	0.840 5				
Percentage Impervious (%)	100				
Urban Creep (%)	0				
Catchment Area					Type : Catchment Area
Area (ha)		0.009			
Dynamic Sizing	7				
		1			
Runoff Method Summer Volumetric Runoff	Time of Concentration 0.750				
Winter Volumetric Runoff	0.750				
Time of Concentration (mins)	5]			
Percentage Impervious (%)	100				
Urban Creep (%)	0	1			
Catchment Area (1)					Type : Catchment Area
Area (ha)		0.007			
h	-				
Dynamic Sizing					
Runoff Method	Time of Concentration				
Summer Volumetric Runoff	0.750				
Winter Volumetric Runoff Time of Concentration (mins)	0.840 5				
Percentage Impervious (%)	100				
Urban Creep (%)	0				

Project: 81 BELSIZE PARK GARDENS	Date: 31/07/2023			
Project No:	Designed by:	Checked by:	Approved By:	MHA
22064	FJ	СН	СН	
Report Details:	MHA STRUCTUR	AL DESIGN:		
Type: Inflows	London: +44 (0)207 375 6340		DESIGN
Storm Phase: Existing Network	Cambridge: +4	44 (0)1223 77634	0	
	mhastructura			



Catchment Area (2)

Type : Catchment Area

Area (ha)

0.008

Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0

Project:		Date:			
81 BELSIZE PARK GARDEN	S	31/07/2023			
Project No:	5	Designed by:	Checked by:	Approved By:	
22064	FJ	СН	СН	MIHA	
Report Title: Rainfall Analysis Criteria	MHA STRUCTUR London: +44 (AL DESIGN: 0)207 375 6340 44 (0)1223 77634	MHA - STRUCTURAL DESIGN		
		·			
Runoff Type		Dynamic			
Output Interval (mins)		5			
Time Step		Default			
Urban Creep	Use Catchme	ent Values			
Junction Flood Risk Margin (mm)		0			
Perform No Discharge Analys	is 🗌				
Rainfall					
FSR					Type: FSR
Region	England And Wales	[
M5-60 (mm)	20.0				
Ratio R	0.400				
Summer	✓				
Winter	\checkmark				

Return Period

[Return Period (years)	Increase Rainfall (%)
	1.0	0.000
- [30.0	35.000
	100.0	40.000
Г		

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
240	480
360	720
480	960
960	1920
1440	2880

Project:	Date:			
81 BELSIZE PARK GARDENS	31/07/2023			
Project No:	Designed by:	Checked by:	Approved By:	MHA
22064	FJ	СН	СН	
Report Details:	MHA STRUCTURAL	DESIGN:		STRUCTURAL
Type: Junctions Summary	London: +44 (0)	207 375 6340		DESIGN
Storm Phase: Existing Network	Cambridge: +44	(0)1223 776340		
	mhastructurald	esign.com		



FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH1	FSR: 1 years: +0 %: 15 mins: Winter	0.000	-0.530	-0.483	0.047	4.0	0.030	0.000	3.9	1.834	ОК
МН	FSR: 1 years: +0 %: 15 mins: Winter	0.000	-0.750	-0.705	0.045	4.8	0.028	0.000	4.7	2.263	ОК
MH2	FSR: 1 years: +0 %: 15 mins: Winter	0.000	-1.230	-1.163	0.067	6.0	0.042	0.000	5.9	2.874	ОК
MH4	FSR: 1 years: +0 %: 15 mins: Winter	0.000	-1.750	-1.686	0.064	7.0	0.072	0.000	6.8	3.463	ОК
S1	FSR: 1 years: +0 %: 15 mins: Winter	0.000	-0.900	-0.890	0.010	0.8	0.002	0.000	0.8	0.392	ОК
Outfall	FSR: 1 years: +0 %: 15 mins: Winter	0.000	-1.900	-1.844	0.056	6.8	0.000	0.000	6.8	3.463	ОК
MH3	FSR: 1 years: +0 %: 15 mins: Winter	0.000	-1.310	-1.260	0.050	6.2	0.032	0.000	6.1	3.009	ОК

Project:	Date:			
81 BELSIZE PARK GARDENS	31/07/2023			
Project No:	Designed by:	Checked by:	Approved By:	MHA
22064	FJ	СН	СН	
Report Details:	MHA STRUCTURA	AL DESIGN:		- <u>Struc</u> tural
Type: Junctions Summary	London: +44 (0)207 375 6340		DESIGN
Storm Phase: Existing Network	Cambridge: +4	44 (0)1223 776340		
	mhastructural	design.com		



FSR: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH1	FSR: 30 years: +35 %: 15 mins: Winter	0.000	-0.530	-0.210	0.320	13.2	0.203	0.000	9.6	6.182	Surcharged
МН	FSR: 30 years: +35 %: 15 mins: Winter	0.000	-0.750	-0.352	0.398	12.8	0.253	0.000	10.0	7.658	Surcharged
MH2	FSR: 30 years: +35 %: 15 mins: Winter	0.000	-1.230	-0.701	0.529	14.4	0.337	0.000	12.4	9.732	Surcharged
MH4	FSR: 30 years: +35 %: 15 mins: Winter	0.000	-1.750	-1.448	0.302	14.9	0.341	0.000	14.8	11.731	Surcharged
S1	FSR: 30 years: +35 %: 15 mins: Winter	0.000	-0.900	-0.883	0.017	2.8	0.003	0.000	2.8	1.296	ОК
Outfall	FSR: 30 years: +35 %: 15 mins: Summer	0.000	-1.900	-1.800	0.100	14.1	0.000	0.000	14.1	10.421	ОК
МНЗ	FSR: 30 years: +35 %: 15 mins: Winter	0.000	-1.310	-0.895	0.415	13.3	0.264	0.000	13.4	10.197	Surcharged

Project:	Date:			
81 BELSIZE PARK GARDENS	31/07/2023			
Project No:	Designed by:	Checked by:	Approved By:	MHA
22064	FJ	СН	СН	
Report Details:	MHA STRUCTURA	AL DESIGN:		- <u>Struc</u> tural
Type: Junctions Summary	London: +44 (0)207 375 6340		DESIGN
Storm Phase: Existing Network	Cambridge: +4	44 (0)1223 776340		
	mhastructural	design.com		



FSR: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH1	FSR: 100 years: +40 %: 15 mins: Winter	0.000	-0.530	0.001	0.531	17.1	1.843	1.506	9.5	8.358	Flood
МН	FSR: 100 years: +40 %: 30 mins: Winter	0.000	-0.750	-0.163	0.587	11.7	0.373	0.000	10.6	13.376	Surcharged
MH2	FSR: 100 years: +40 %: 15 mins: Winter	0.000	-1.230	-0.545	0.685	16.8	0.436	0.000	13.8	13.131	Surcharged
MH4	FSR: 100 years: +40 %: 30 mins: Winter	0.000	-1.750	-1.371	0.379	16.8	0.428	0.000	16.5	20.529	Surcharged
S1	FSR: 100 years: +40 %: 15 mins: Winter	0.000	-0.900	-0.881	0.019	3.6	0.003	0.000	3.6	1.754	ок
Outfall	FSR: 100 years: +40 %: 15 mins: Summer	0.000	-1.900	-1.800	0.100	15.9	0.000	0.000	15.8	14.094	ок
МНЗ	FSR: 100 years: +40 %: 15 mins: Winter	0.000	-1.310	-0.757	0.553	15.1	0.352	0.000	14.3	13.777	Surcharged

Project: 81 BELSIZE PARK GARDENS		Date: 31/07/2023			
Project No:		31/0//2023 Designed by:	Checked by:	Approved By:	
22064		FJ	checked by.	дриотеа Бу.	MHA
Report Details:		MHA STRUCTURA	L DESIGN:		
Type: Inflows)207 375 6340		MHA STRUCTURAL DESIGN
Storm Phase: Surface Network 1	1		4 (0)1223 776340)	DESIGN
		mhastructural			
1.000 - 172.93m			-		Type : Catchment Area
-					
Area (ha)		0.017			
Dynamic Sizing	7				
Runoff Method	Time of Concentration	1			
Summer Volumetric Runoff	0.750				
Winter Volumetric Runoff	0.840				
Time of Concentration (mins)	5				
Percentage Impervious (%) Urban Creep (%)	100 0				
5.550 (k)	0	1			
2.000 - 60.01m					Type : Catchment Area
Area (ha)		0.006			
Dynamic Sizing	_				
		1			
Runoff Method Summer Volumetric Runoff	Time of Concentration				
Winter Volumetric Runoff	0.750 0.840				
Time of Concentration (mins)	5				
Percentage Impervious (%)	100				
Urban Creep (%)	0				
1.000 - 22.04 m					Type : Catchment Area
					.,,
Area (ha)		0.002			
Dynamic Sizing					
Runoff Method	Time of Concentration				
Summer Volumetric Runoff Winter Volumetric Runoff	0.750 0.840				
Time of Concentration (mins)	0.840				
Percentage Impervious (%)	100				
Urban Creep (%)	0				
// 1.001 - 16.32m					Type : Catchment Area
*					
Area (ha)		0.002			
Dynamic Sizing					
Runoff Method	Time of Concentration	1			
Summer Volumetric Runoff	0.750				
Winter Volumetric Runoff	0.840				
Time of Concentration (mins) Percentage Impervious (%)	5 100				
Urban Creep (%)	0				
	-	4			

Project:		Date:			
B1 BELSIZE PARK GARDENS		31/07/2023			
Project No:		Designed by:	Checked by:	Approved By:	
22064		FJ			
Report Details:		MHA STRUCTURA			- MHA - STRUCTURAI DESIGN
))207 375 6340		
Type: Inflows				-	DESIGIN
Storm Phase: Surface Networl	k 1		4 (0)1223 77634	0	
		mhastructural	design.com		
4003 - 20.96m					Type : Catchment Area
Area (ha)		0.002			
Dynamic Sizing					
Runoff Method	Time of Concentration				
Summer Volumetric Runoff	0.750				
Winter Volumetric Runoff	0.840				
Time of Concentration (mins)	5				
Percentage Impervious (%)	100				
Urban Creep (%)	0				
4/// 1.003 - 10.10m					Type : Catchment Area
• (1)		0.001			
Area (ha)		0.001			
Dynamic Sizing		0.001			
Dynamic Sizing Runoff Method	Time of Concentration	0.001			
Dynamic Sizing Runoff Method Summer Volumetric Runoff	0.750	0.001			
Dynamic Sizing Runoff Method Summer Volumetric Runoff Winter Volumetric Runoff	0.750 0.840	0.001			
Dynamic Sizing Runoff Method Summer Volumetric Runoff Winter Volumetric Runoff Time of Concentration (mins)	0.750 0.840 5	0.001			
Dynamic Sizing Runoff Method Summer Volumetric Runoff Winter Volumetric Runoff Time of Concentration (mins) Percentage Impervious (%)	0.750 0.840 5 100	0.001			
Dynamic Sizing Runoff Method Summer Volumetric Runoff Winter Volumetric Runoff Time of Concentration (mins)	0.750 0.840 5	0.001			
Dynamic Sizing Runoff Method Summer Volumetric Runoff Winter Volumetric Runoff Time of Concentration (mins) Percentage Impervious (%)	0.750 0.840 5 100	0.001			Type : Catchment Area
Dynamic Sizing Runoff Method Summer Volumetric Runoff Winter Volumetric Runoff Time of Concentration (mins) Percentage Impervious (%) Urban Creep (%) Green Roof 1	0.750 0.840 5 100				Type : Catchment Area
Dynamic Sizing Runoff Method Summer Volumetric Runoff Winter Volumetric Runoff Time of Concentration (mins) Percentage Impervious (%) Urban Creep (%)	0.750 0.840 5 100	0.001			Type : Catchment Area
Dynamic Sizing Runoff Method Summer Volumetric Runoff Winter Volumetric Runoff Time of Concentration (mins) Percentage Impervious (%) Urban Creep (%) Green Roof 1	0.750 0.840 5 100				Type : Catchment Area
Dynamic Sizing Runoff Method Summer Volumetric Runoff Winter Volumetric Runoff Time of Concentration (mins) Percentage Impervious (%) Urban Creep (%) Green Roof 1 Area (ha) Dynamic Sizing	0.750 0.840 5 100 0				Type : Catchment Area
Dynamic Sizing Runoff Method Summer Volumetric Runoff Winter Volumetric Runoff Time of Concentration (mins) Percentage Impervious (%) Urban Creep (%) Green Roof 1 Area (ha) Dynamic Sizing Runoff Method	0.750 0.840 5 100 0				Type : Catchment Area
Dynamic Sizing Runoff Method Summer Volumetric Runoff Winter Volumetric Runoff Time of Concentration (mins) Percentage Impervious (%) Urban Creep (%) Green Roof 1 Area (ha) Dynamic Sizing Runoff Method Summer Volumetric Runoff	0.750 0.840 5 100 0 0 Green Roof 0.750				Type : Catchment Area
Dynamic Sizing Runoff Method Summer Volumetric Runoff Winter Volumetric Runoff Time of Concentration (mins) Percentage Impervious (%) Urban Creep (%) Green Roof 1 Area (ha) Punamic Sizing Runoff Method Summer Volumetric Runoff Coefficient Winter Volumetric Runoff Coefficient	0.750 0.840 5 100 0				Type : Catchment Area
Dynamic Sizing Runoff Method Summer Volumetric Runoff Winter Volumetric Runoff Time of Concentration (mins) Percentage Impervious (%) Urban Creep (%) Green Roof 1 Area (ha) Runoff Method Summer Volumetric Runoff Coefficient Winter Volumetric Runoff Coefficient Winter Volumetric Runoff Coefficient Depression Storage (mm)	0.750 0.840 5 100 0 0 5 5 0 0 840 0.840 40				Type : Catchment Area
Dynamic Sizing Runoff Method Summer Volumetric Runoff Winter Volumetric Runoff Time of Concentration (mins) Percentage Impervious (%) Urban Creep (%) Green Roof 1 Area (ha) Dynamic Sizing Runoff Method Summer Volumetric Runoff Coefficient Winter Volumetric Runoff Coefficient Winter Volumetric Runoff Depression Storage (mm)	0.750 0.840 5 100 0 0 5 0 0 0 8 0 8 0.750 0.840				Type : Catchment Area
Dynamic Sizing Runoff Method Summer Volumetric Runoff Winter Volumetric Runoff Time of Concentration (mins) Percentage Impervious (%) Urban Creep (%) Green Roof 1 Area (ha) Runoff Method Summer Volumetric Runoff Coefficient Winter Volumetric Runoff Coefficient Winter Volumetric Runoff Coefficient Depression Storage (mm) Evapotranspiration (mm/day)	0.750 0.840 5 100 0 0 5 0 0 8 0 8 0 8 40 3.0				Type : Catchment Area
Dynamic Sizing Runoff Method Summer Volumetric Runoff Winter Volumetric Runoff Time of Concentration (mins) Percentage Impervious (%) Urban Creep (%) Green Roof 1 Area (ha) Dynamic Sizing Runoff Method Summer Volumetric Runoff Coefficient Winter Volumetric Runoff Coefficient Depression Storage (mm) Evapotranspiration (mm/day) Decay Coefficiency	0.750 0.840 5 100 0				Type : Catchment Area
Dynamic Sizing Runoff Method Summer Volumetric Runoff Winter Volumetric Runoff Time of Concentration (mins) Percentage Impervious (%) Urban Creep (%) Green Roof 1 Area (ha) Punamic Sizing Runoff Method Summer Volumetric Runoff Coefficient Winter Volumetric Runoff Coefficient Winter Volumetric Runoff Coefficient Depression Storage (mm) Evapotranspiration (mm/day)	0.750 0.840 5 100 0 0 5 0 0 8 0 8 0 8 40 3.0	0.009			Type : Catchment Area

Project:	Date:			
81 BELSIZE PARK GARDENS	31/07/2023			
Project No:	Designed by:	Checked by:	Approved By:	MHA
22064	FJ			
Report Details:	MHA STRUCTURAL D	ESIGN:		STRUCTURAL
Type: Inflows	London: +44 (0)2	07 375 6340		DESIGN
Storm Phase: Surface Network 1	Cambridge: +44 (
	mhastructuraldes	sign.com		



Green Roof 2

Type : Catchment Area

Area (ha)

0.007

Dynamic Sizing	
Runoff Method	Green Roof
Summer Volumetric Runoff Coefficient	0.750
Winter Volumetric Runoff Coefficient	0.840
Depression Storage (mm)	40
Evapotranspiration (mm/day)	3.0
Decay Coefficiency	0.050
Time Delay (mins)	120
Urban Creep (%)	0



Green Roof 3

0.008

Runoff Method	Green Roof
Summer Volumetric Runoff Coefficient	0.750
Winter Volumetric Runoff Coefficient	0.840
Depression Storage (mm)	40
Evapotranspiration (mm/day)	3.0
Decay Coefficiency	0.050
Time Delay (mins)	120
Urban Creep (%)	0

Type : Catchment Area

Project:	Date:			
81 BELSIZE PARK GARDENS	31/07/2023			
Project No:	Designed by: Checked by: Approved By:			MHA
22064	FJ			STRUCTURAL
Report Details:	MHA STRUCTURAL DESIGN:			
Type: Stormwater Controls	London: +44 (0)207 375 6340			DESIGN
Storm Phase: Surface Network 1	Cambridge: +44 (0)1223 776340			
	mhastructuraldes	sign.com		



Porous Paving

Type : Porous Paving

Dimensions	
Exceedance Level (m)	0.000
Depth (m)	0.450
Base Level (m)	-0.450
Paving Layer Depth (mm)	60
Membrane Percolation (m/hr)	3.0
Porosity (%)	30
Length (m)	2.019
Long. Slope (1:X)	350.00
Width (m)	8.043
Total Volume (m ³)	1.899

Outlets

Outlet	
Outgoing Connection	Pipe
Outlet Type	Free Discharge

Advanced	
Base Infiltration Rate (m/hr)	0.0
Side Infiltration Rate (m/hr)	0.0
Safety Factor	2.0
Conductivity (m/hr)	500.0

Project: 81 BELSIZE PARK GARDENS		Date:				
		31/07/2023				
Project No:	Designed by:	Checked by:	Approved By:	МНА		
22064		FJ				
Report Title:		MHA STRUCTURAL DESIGN:			MHA STRUCTURAL DESIGN	
		London: +44 (0)207 375 6340			DESIGN	
Rainfall Analysis Criteria			44 (0)1223 77634	0		
		mhastructura		-		
		initia de la de la la	lacorgineenn			
Runoff Type		Dynamic				
Output Interval (mins)		5				
Time Step		Default				
		ent Values				
Junction Flood Risk Margin						
(mm)		0				
Perform No Discharge Analysis	S 🗌					
Rainfall						
FSR					Type: FSR	
Region	England And Wales	I				
M5-60 (mm)	20.0					
Ratio R	0.400					
Summer	✓					
Winter	~					

Return Period

Return Period (years)	Increase Rainfall (%)
1.0	0.000
30.0	35.000
100.0	40.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
240	480
360	720
480	960
960	1920
1440	2880

Project:	Date:	Date:				
81 BELSIZE PARK GARDENS	31/07/2023	31/07/2023				
Project No:	Designed by: Checked by	: Approved By:	MHA			
22064	FJ		STRUCTURAL			
Report Details:	MHA STRUCTURAL DESIGN:	MHA STRUCTURAL DESIGN:				
Type: Junctions Summary	London: +44 (0)207 375 63	London: +44 (0)207 375 6340				
Storm Phase: Surface Network 1	Cambridge: +44 (0)1223 77	Cambridge: +44 (0)1223 776340				
	mhastructuraldesign.com					



FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

								Max.			
Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Flooded	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH1	FSR: 1 years: +0 %: 15 mins: Winter	0.000	-0.530	-0.492	0.038	2.7	0.024	0.000	2.7	1.266	ок
мн	FSR: 1 years: +0 %: 15 mins: Winter	0.000	-0.750	-0.718	0.032	2.7	0.021	0.000	2.6	1.264	ОК
MH2	FSR: 1 years: +0 %: 15 mins: Winter	0.000	-1.230	-1.188	0.042	2.8	0.026	0.000	2.7	1.367	ОК
MH4	FSR: 1 years: +0 %: 15 mins: Winter	0.000	-1.750	-1.706	0.044	3.9	0.050	0.000	3.8	1.957	ОК
S1	FSR: 1 years: +0 %: 15 mins: Winter	0.000	-0.900	-0.890	0.010	0.8	0.002	0.000	0.8	0.392	ОК
Outfall	FSR: 1 years: +0 %: 15 mins: Winter	0.000	-1.900	-1.860	0.040	3.8	0.000	0.000	3.8	1.957	ок
МНЗ	FSR: 1 years: +0 %: 15 mins: Winter	0.000	-1.310	-1.276	0.034	3.0	0.021	0.000	3.0	1.503	ок

Project:	Date:			
81 BELSIZE PARK GARDENS	31/07/2023			
Project No:	Designed by:	Checked by:	Approved By:	MHA
22064	FJ			
Report Details:	MHA STRUCTURA	AL DESIGN:	- <u>Struc</u> tural	
Type: Junctions Summary	London: +44 (0)207 375 6340	DESIGN	
Storm Phase: Surface Network 1	Cambridge: +4	4 (0)1223 776340		
	mhastructural	design.com		



FSR: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH1	FSR: 30 years: +35 %: 15 mins: Winter	0.000	-0.530	-0.444	0.086	9.1	0.055	0.000	8.8	4.199	ОК
МН	FSR: 30 years: +35 %: 15 mins: Winter	0.000	-0.750	-0.685	0.065	8.8	0.041	0.000	8.6	4.197	ок
MH2	FSR: 30 years: +35 %: 15 mins: Winter	0.000	-1.230	-1.129	0.101	9.4	0.064	0.000	8.6	4.548	Surcharged
MH4	FSR: 30 years: +35 %: 15 mins: Winter	0.000	-1.750	-1.592	0.158	12.9	0.179	0.000	11.4	6.498	Surcharged
S1	FSR: 30 years: +35 %: 15 mins: Winter	0.000	-0.900	-0.883	0.017	2.8	0.003	0.000	2.8	1.289	ок
Outfall	FSR: 30 years: +35 %: 15 mins: Winter	0.000	-1.900	-1.800	0.100	11.4	0.000	0.000	11.5	6.498	ок
МНЗ	FSR: 30 years: +35 %: 15 mins: Winter	0.000	-1.310	-1.242	0.068	9.6	0.043	0.000	9.6	4.993	ОК

Project:	Date:			
81 BELSIZE PARK GARDENS	31/07/2023			
Project No:	Designed by:	Checked by:	Approved By:	MHA
22064	FJ			
Report Details:	MHA STRUCTURAL	DESIGN:		STRUCTURAL
Type: Junctions Summary	London: +44 (0)	London: +44 (0)207 375 6340		
Storm Phase: Surface Network 1	Cambridge: +44	(0)1223 776340		
	mhastructuralde	esign.com		



FSR: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH1	FSR: 100 years: +40 %: 15 mins: Winter	0.000	-0.530	-0.342	0.188	12.2	0.119	0.000	10.5	5.652	Surcharged
МН	FSR: 100 years: +40 %: 15 mins: Winter	0.000	-0.750	-0.674	0.076	10.5	0.048	0.000	10.3	5.646	ок
MH2	FSR: 100 years: +40 %: 15 mins: Winter	0.000	-1.230	-1.055	0.175	11.3	0.111	0.000	10.0	6.120	Surcharged
MH4	FSR: 100 years: +40 %: 15 mins: Winter	0.000	-1.750	-1.509	0.241	14.2	0.272	0.000	13.5	8.751	Surcharged
S1	FSR: 100 years: +40 %: 15 mins: Winter	0.000	-0.900	-0.880	0.020	3.8	0.003	0.000	3.7	1.742	ок
Outfall	FSR: 100 years: +40 %: 15 mins: Summer	0.000	-1.900	-1.800	0.100	13.2	0.000	0.000	13.2	7.815	ОК
МНЗ	FSR: 100 years: +40 %: 15 mins: Winter	0.000	-1.310	-1.191	0.119	11.3	0.076	0.000	10.4	6.718	Surcharged

	Project / Site Name (including sub-catchment / stage / phase where appropriate)	81 Belsize Park Gardens			
	Address & post code	81 Belsize Park Gardens, NW3 4NJ			
	OS Grid ref. (Easting, Northing)	E:527395			
		N:184639			
ails	LPA reference (if applicable)				
1. Project & Site Details	Brief description of proposed work	A refurbishment of an existing three-story college building in Belsize Park to convert the current use Class E (Gym/Leisure centre) to F1 (Education - Secondary School).			
1. F	Total site Area	723m2			
	Total existing impervious area	708.8m2			
	Total proposed impervious area	692m2			
	Is the site in a surface water flood risk catchment (ref. local Surface Water Management Plan)?	Νο			
	Existing drainage connection type and location	The site currently does not have a surface drainage network. The surface water currently discharges into the foul drainage. This has been picked up during the drainage CCTV survey.			
	Designer Name	Brandon Davis			
	Designer Position	Engineer			
	Designer Company	MHA Structural Design			

2a. Infiltration Feasibility	r				
Superficial geology classification	Unproductive				
Bedrock geology classification	ondon Clay Formation				
Site infiltration rate	n/a	m/s			
Depth to groundwater level	m below ground level				
Is infiltration feasible?		No			
2b. Drainage Hierarchy	-				
		Feasible (Y/N)	Proposed (Y/N)		
1 store rainwater for later use		N	N		
2 use infiltration techniques, such as porous surf	Ν	N			
3 attenuate rainwater in ponds or open water fe release	Ν	N			
4 attenuate rainwater by storing in tanks or seale gradual release	ed water features for	Ν	N		
5 discharge rainwater direct to a watercourse		Ν	N		
6 discharge rainwater to a surface water sewer/o	Ν	N			
7 discharge rainwater to the combined sewer.	Y	Y			
2c. Proposed Discharge Details					
Proposed discharge location	sisting Combined Drainage				
Has the owner/regulator of the discharge location been consulted?	TBC				

	Greenfield (GF) runoff rate (l/s)	Existing discharge rate (I/s)	Required storage for GF rate (m ³)	Proposed discharg rate (l/s)
Qbar	0.43			
1 in 1	0.37	6.8	-	3.8
1 in 30 1		14.1	14.1 -	
1 in 100 1.38		14.5	-	10.7
1 in 100 + CC			-	13.2
Climate change allo	owance used	40%		
3b. Principal Metho	od of Flow Control	Free Discharge. Please re	efer to FRA report for fur	ther clarification.
3c. Proposed SuDS	Measures			
3c. Proposed SuDS	Measures	Catchment area (m ²)	Plan area (m ²)	Storage vol. (m ³
3c. Proposed SuDS Rainwater harvestir		Catchment area (m ²)	Plan area (m ²)	Storage vol. (m ³
	ng		Plan area (m ²)	Storage vol. (m ³
Rainwater harvestir	ng	0	Plan area (m ²)	Storage vol. (m ³
Rainwater harvestir Infiltration systems	ng	0		Storage vol. (m ³
Rainwater harvestir Infiltration systems Green roofs	ng	0 0 282	282	Storage vol. (m ³
Rainwater harvestir Infiltration systems Green roofs Blue roofs	ng	0 0 282 0	282 0	Storage vol. (m ³
Rainwater harvestir Infiltration systems Green roofs Blue roofs Filter strips	ng	0 0 282 0 0	282 0 0	Storage vol. (m ³
Rainwater harvestir Infiltration systems Green roofs Blue roofs Filter strips Filter drains	pits	0 0 282 0 0 0	282 0 0 0	Storage vol. (m ⁻³
Rainwater harvestir Infiltration systems Green roofs Blue roofs Filter strips Filter drains Bioretention / tree	pits	0 0 282 0 0 0 0 0	282 0 0 0 0	Storage vol. (m ³
Rainwater harvestir Infiltration systems Green roofs Blue roofs Filter strips Filter drains Bioretention / tree Pervious pavement	pits	0 0 282 0 0 0 0 0 22	282 0 0 0 0 0 17.2	Storage vol. (m ⁻³
Rainwater harvestir Infiltration systems Green roofs Blue roofs Filter strips Filter drains Bioretention / tree Pervious pavement Swales	pits	0 0 282 0 0 0 0 0 22 0 0	282 0 0 0 0 0 17.2 0	Storage vol. (m ⁻³

4a. Discharge & Drainage Strategy	Page/section of drainage report			
Infiltration feasibility (2a) – geotechnical factual and interpretive reports, including infiltration results	1.4			
Drainage hierarchy (2b)	pg.10 - Please refer to the report for further clarification.			
Proposed discharge details (2c) – utility plans, correspondence / approval from owner/regulator of discharge location	pg.10 - The connection will be into the existing drainage network. Discharge consent will need to be agreed with approving body by the contractor due to the requirement for provision of RAMS.			
Discharge rates & storage (3a) – detailed hydrologic and hydraulic calculations	11			
Proposed SuDS measures & specifications (3b)	10			
4b. Other Supporting Details	Page/section of drainage report			
Detailed Development Layout	Appendix A			
Detailed drainage design drawings, including exceedance flow routes	Appendix C			
Detailed landscaping plans	Appendix A			
Maintenance strategy	13			
Demonstration of how the proposed SuDS measures improve:	page.11-12 & Appendix C			
a) water quality of the runoff?	By implementing Green roofs, porous pavement and rainwater garden			
	By providing above ground SuDS features wherever possil and reducing the proposed impervious area.			
b) biodiversity?	and reducing the proposed impervious area.			

4. Supporting Information