

## Notes



Line indicates extent of boundary of works

Line indicates adjacent land owned by the applicant

Hatch indicates existing building

**THIS DRAWING READ IN CONJUNCTION WITH ALL ACCOMPANYING INFORMATION**

Rev	Description	Date	Dr by	App by
original by		date created	approved by	
RAB		11.03.2020		JW



AHR Building Consultancy Ltd  
5th Floor  
55 Princess Street  
Manchester  
M2 4EW  
United Kingdom

T: +44(0)161 6287390  
E: manchester@ahr.co.uk  
www.ahr.co.uk

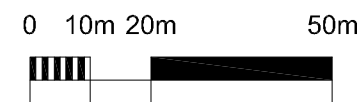
Client:  
**Stockport Metropolitan Borough Council**

Project:  
**Ludworth Primary School  
Air Handling Unit and Duct Installation**

Drawing:  
**OS Plan**

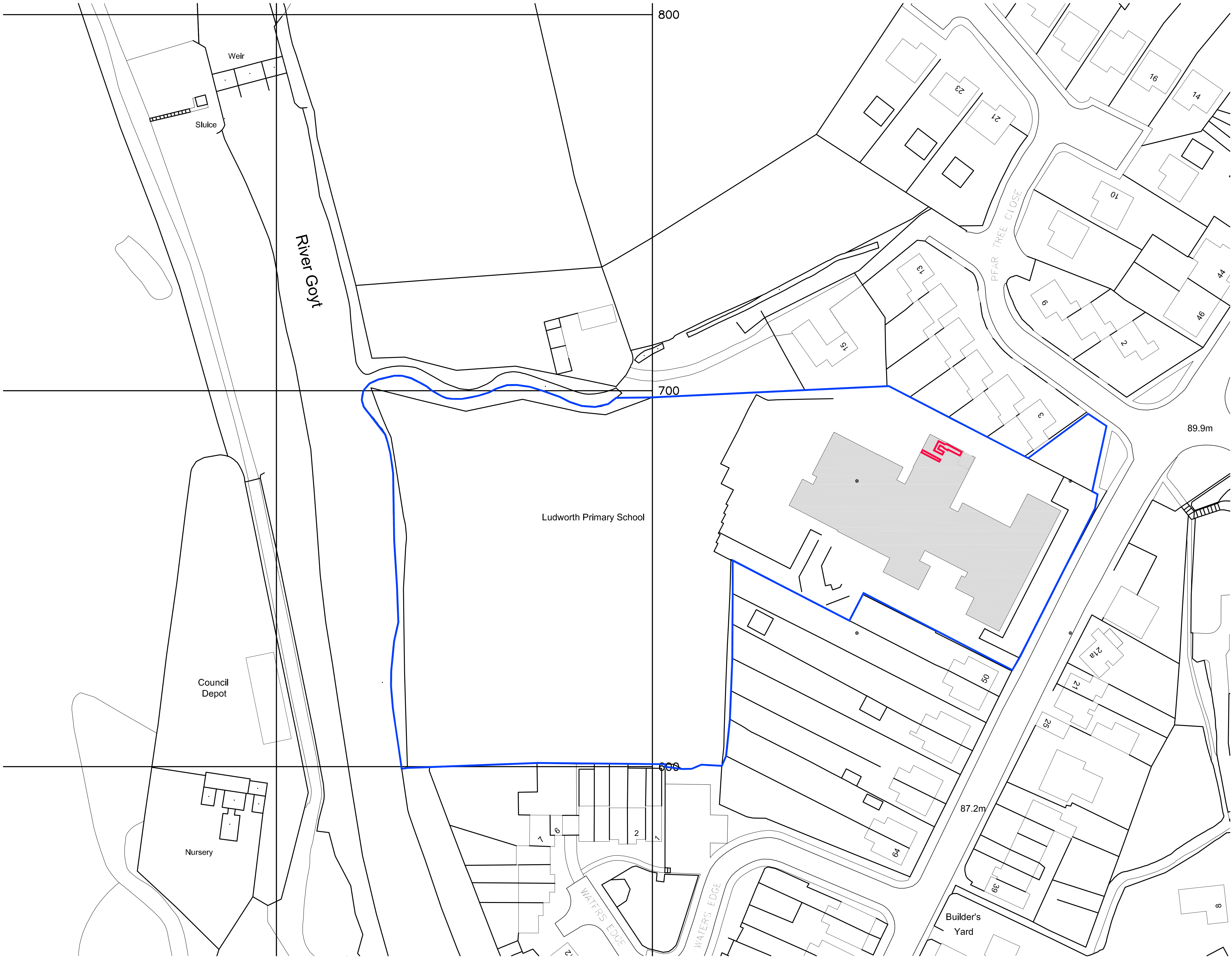
Project number	Scale
2020.00028.002	1:1250 @A2
Drawing number	Rev
LPS-98-201	Planning

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1:1250





Block Plan  
Scale 1:500 @ A1

Notes

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original by		date created		Approved by
ASN		04.10.22		JW

**AHR**  
AHR Building Consultancy Ltd  
5th Floor  
55 Princess Street  
Manchester  
M2 4EW  
United Kingdom

T +44(0)161 8287900  
E manchester@ahr-global.com  
www.ahr-global.com

client
Stockport Metropolitan Borough Council
project
Ludworth Primary School Air Handling Unit and Duct Installation
drawing
Block Plan

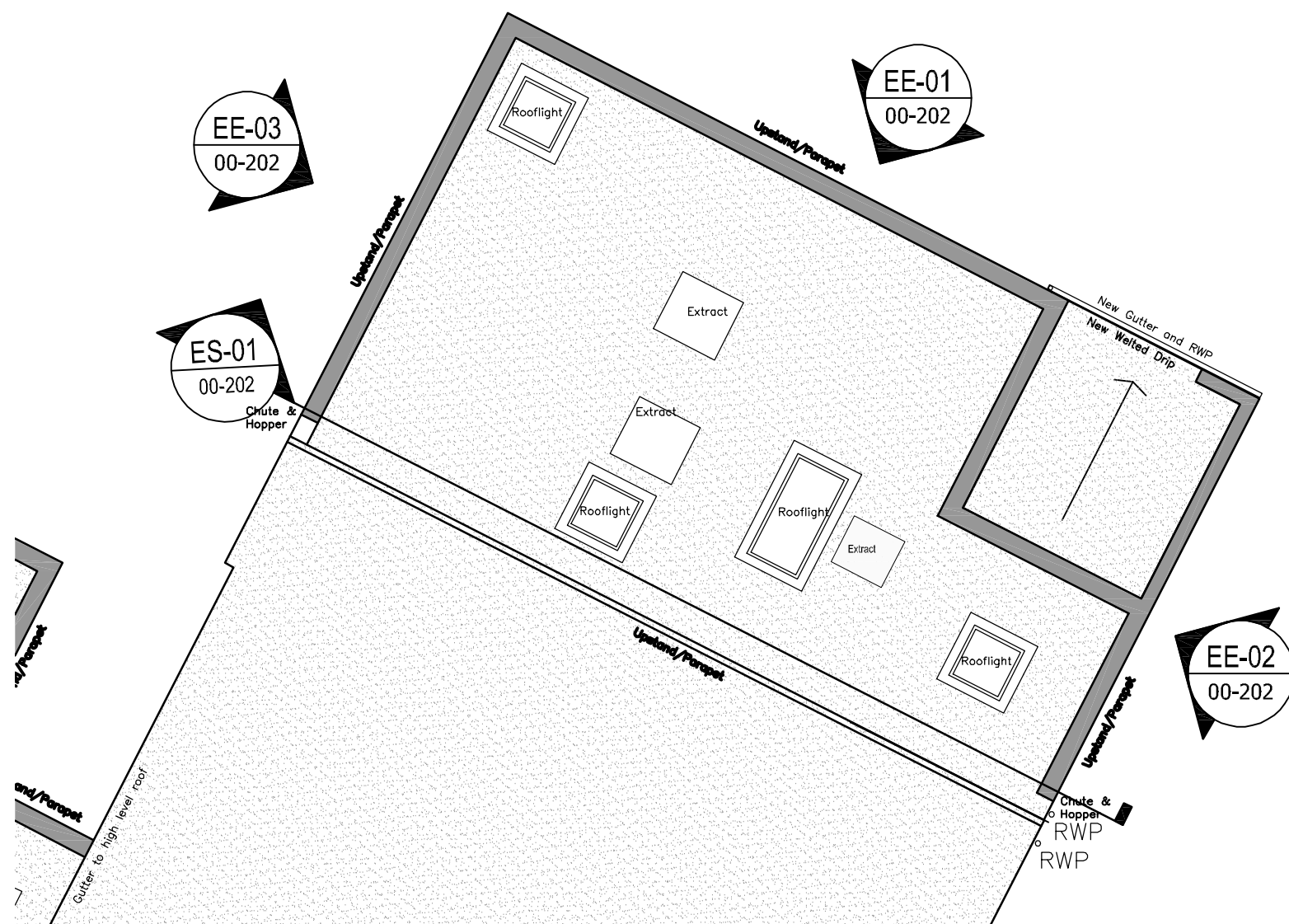
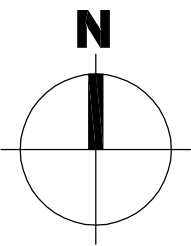
project number	scale	
2021_00751_000	1:500	@A1
drawing number	rev	issue status
LPS-98-202		Planning

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Notes

Indicates Area of Works



Existing Plan

Scale 1:100 @ A2



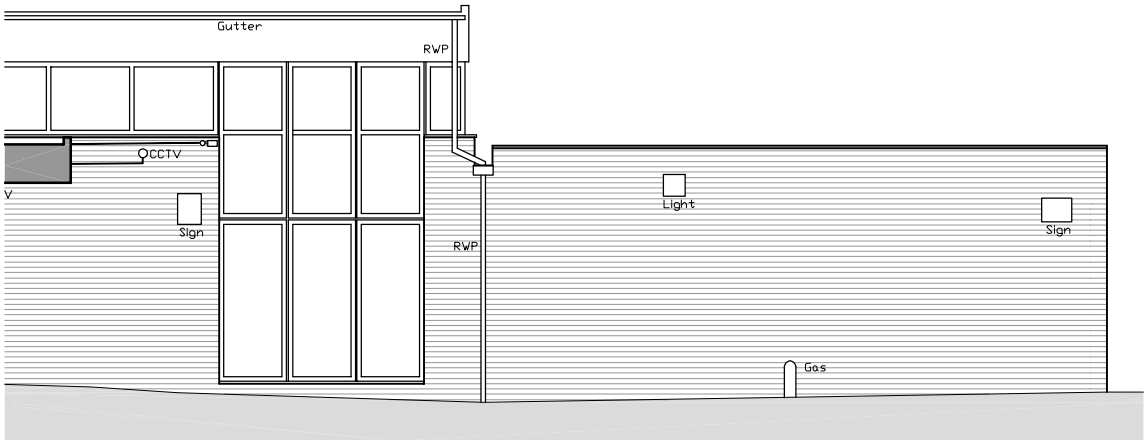
Location Plan

Scale 1:500 @ A2



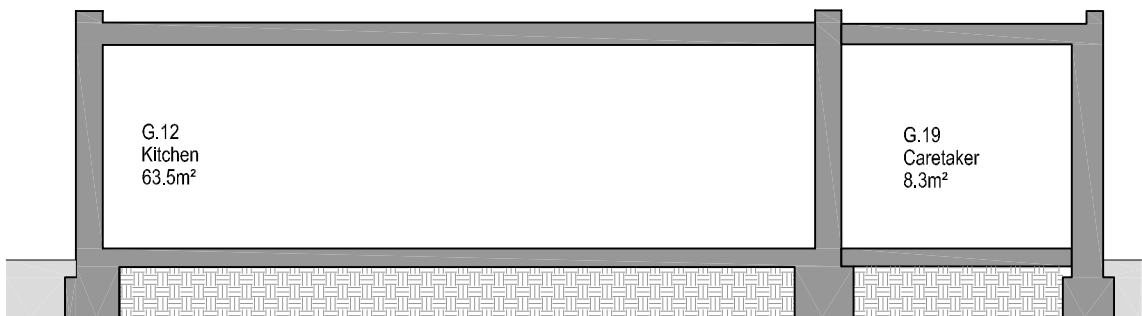
Elevation EE-01

Scale 1:100 @ A2



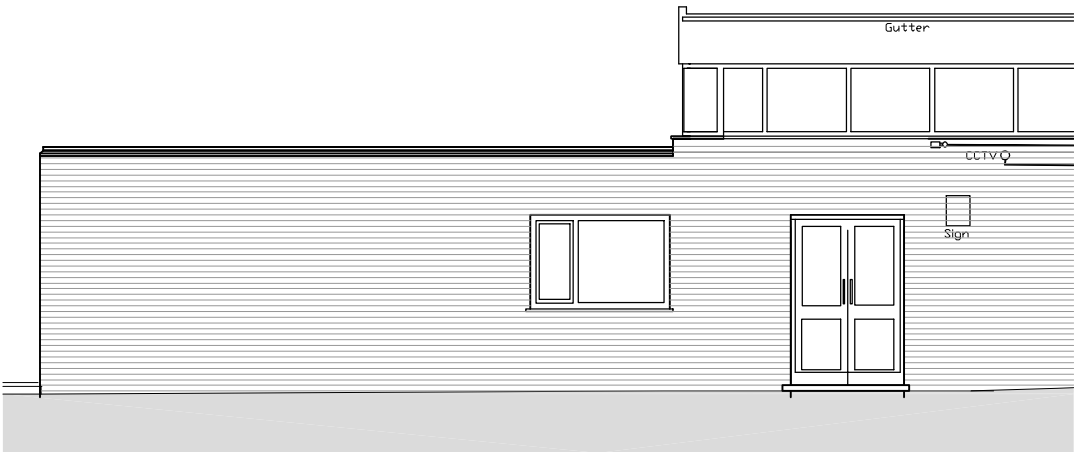
Elevation EE-02

Scale 1:100 @ A2



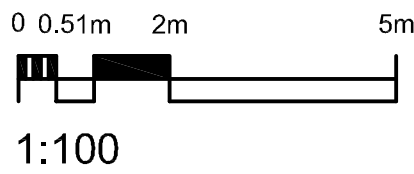
Section ES-01

Scale 1:100 @ A2



Elevation EE-03

Scale 1:100 @ A2



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original by	ASN	date created	04.10.22	approved by
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AHR Building Consultancy Ltd  
5th Floor  
55 Princess Street  
Manchester  
M2 4EW  
United Kingdom

T +44(0)161 8287800  
E manchester@ahr.co.uk  
www.ahr.co.uk

client	Stockport Metropolitan Borough Council
project	Ludworth Primary School Air Handling Unit and Duct Installation
drawing	Existing Plan, Elevations and Section

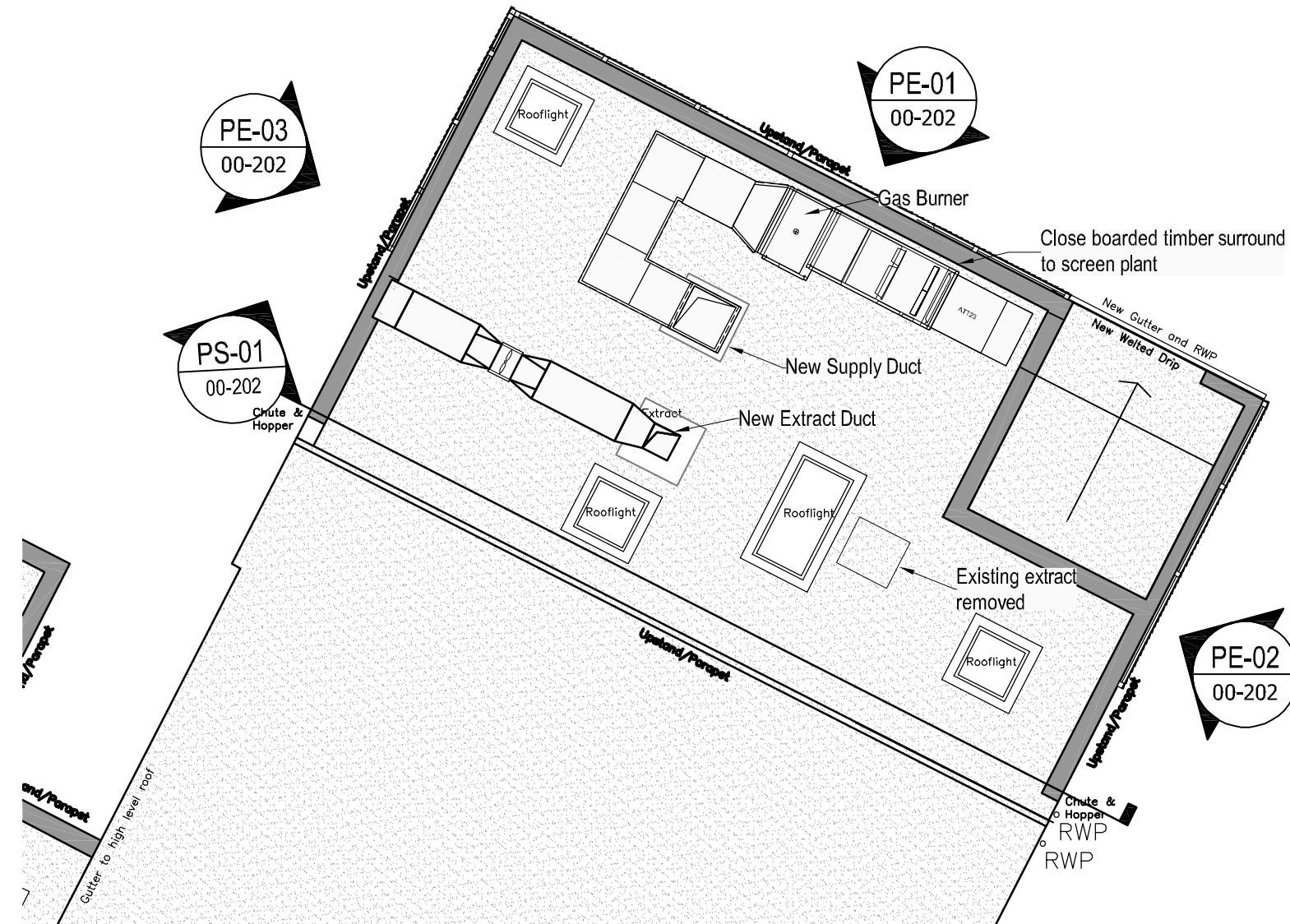
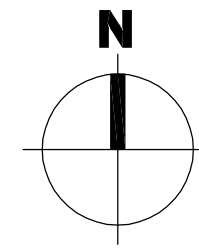
project number	2021.00751.000	scale	As Indicated @A2
drawing number	PLS-00-201	rev	Planning

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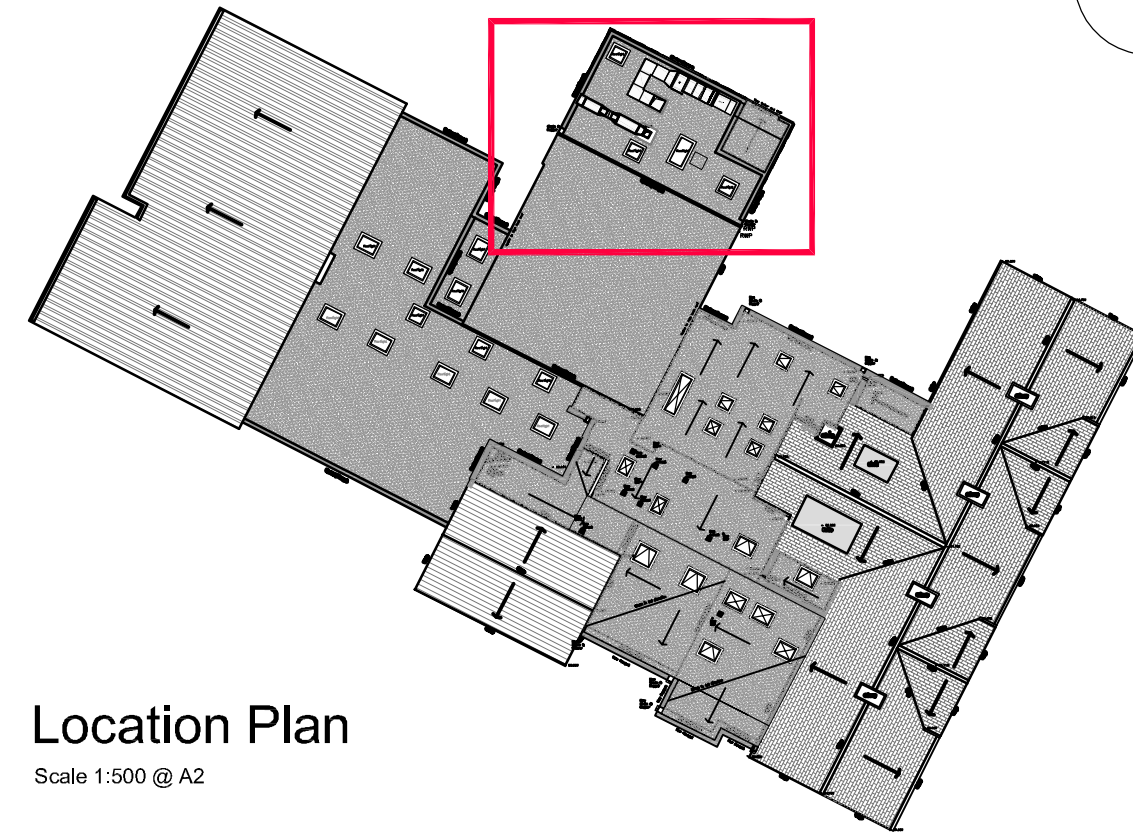
## Notes

 Indicates Area of Works



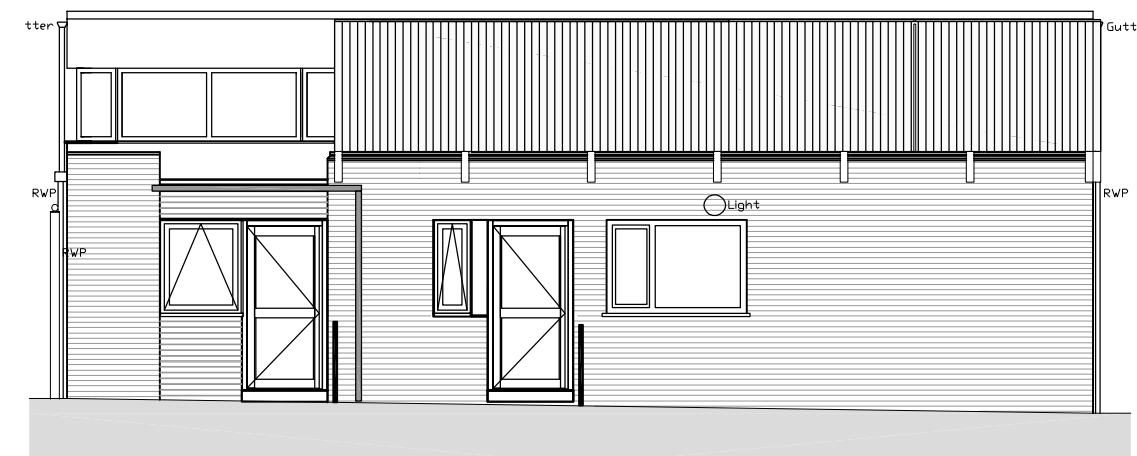
## Proposed Plan

Scale 1:100 @ A2



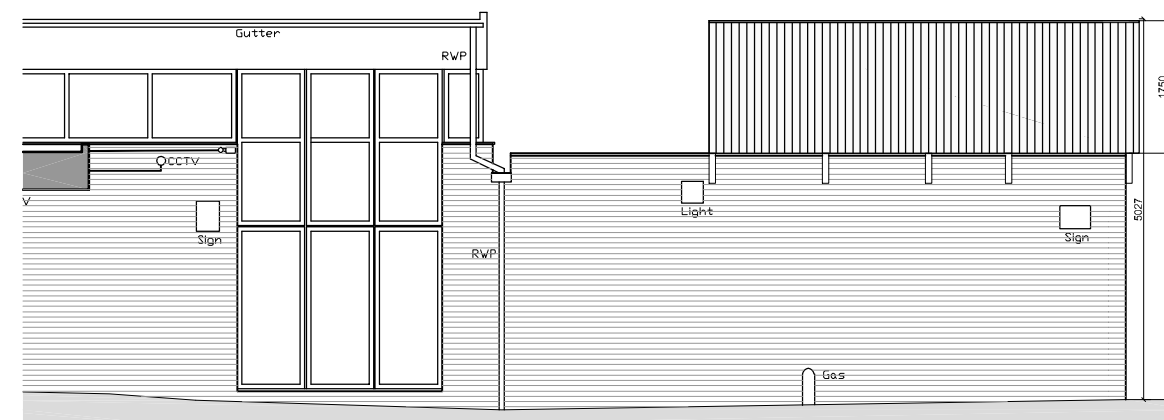
## Location Plan

Scale 1:500 @ A2



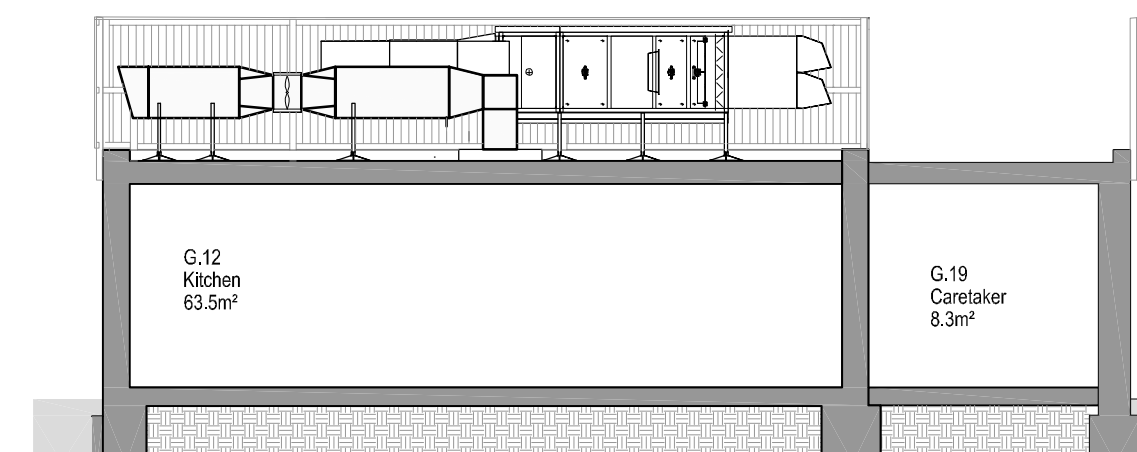
## Elevation PE-01

Scale 1:100 @ A2



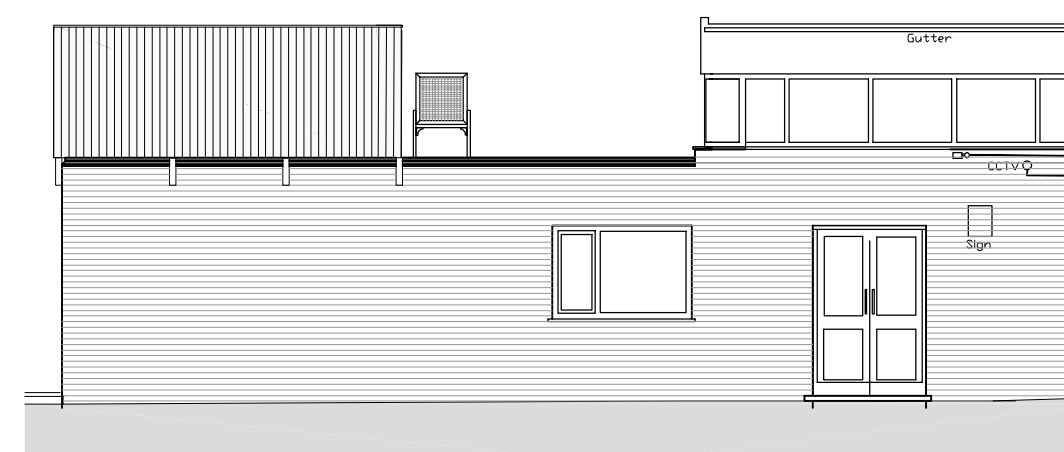
Elevation PE-02

Scale 1:100 @ A2



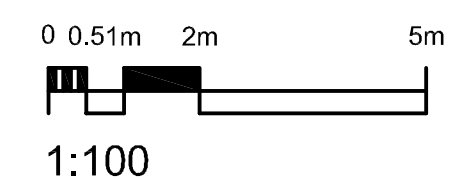
Section PS-01

Scale 1:100 @ A2



Elevation PE-03

Scale 1:100 @ A2



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ASN	04.10.22	JW		



**AHR Building Consultancy Ltd**  
5th Floor  
65 Princess Street  
Manchester  
M2 4EW  
United Kingdom

+44(0)161 8287900  
E manchester@ahr.co.uk  
www.ahr.co.uk

client  
**Stockport Metropolitan Borough Council**

project  
**Ludworth Primary School**  
**Air Handling Unit and Duct Installation**

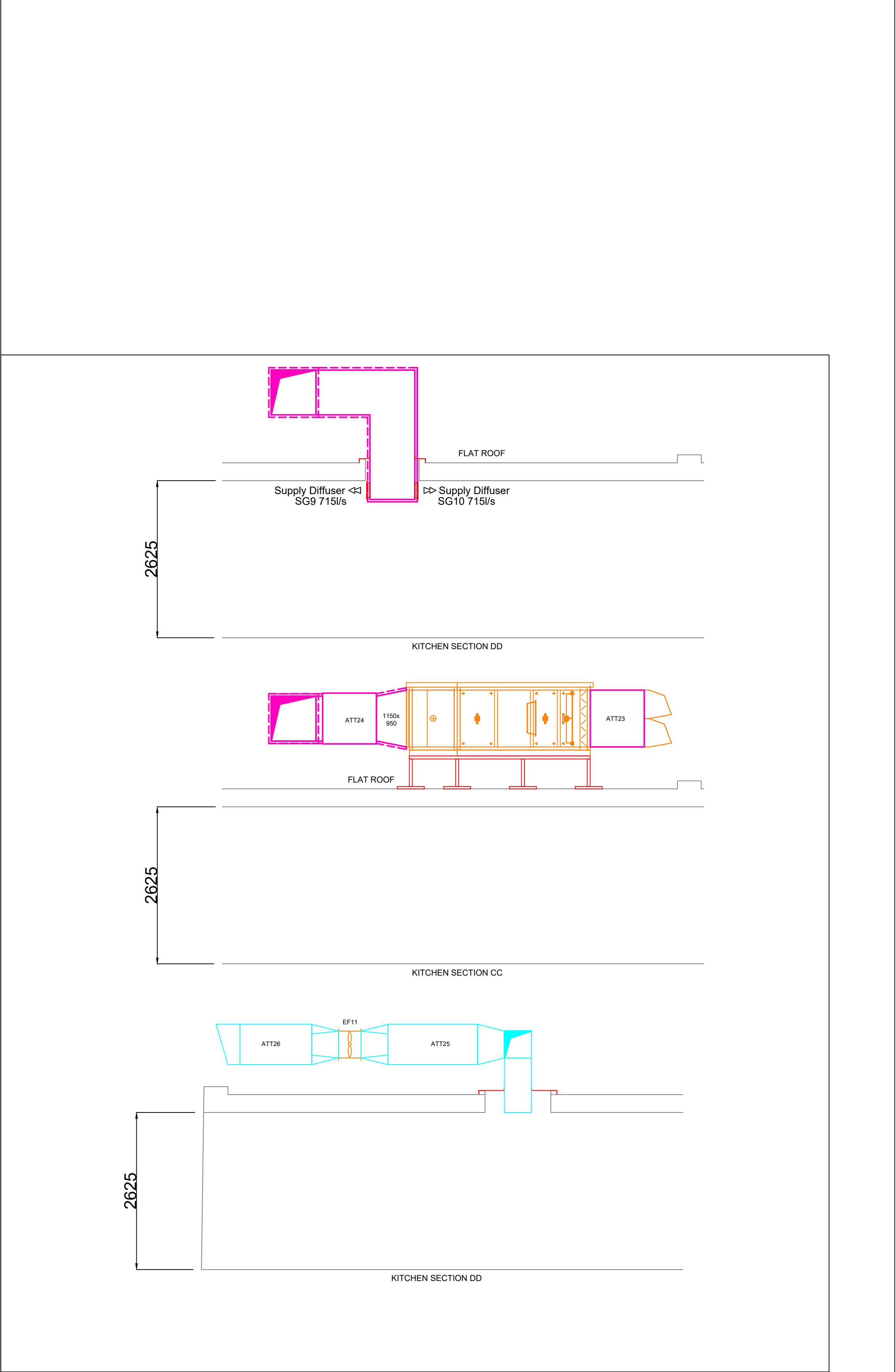
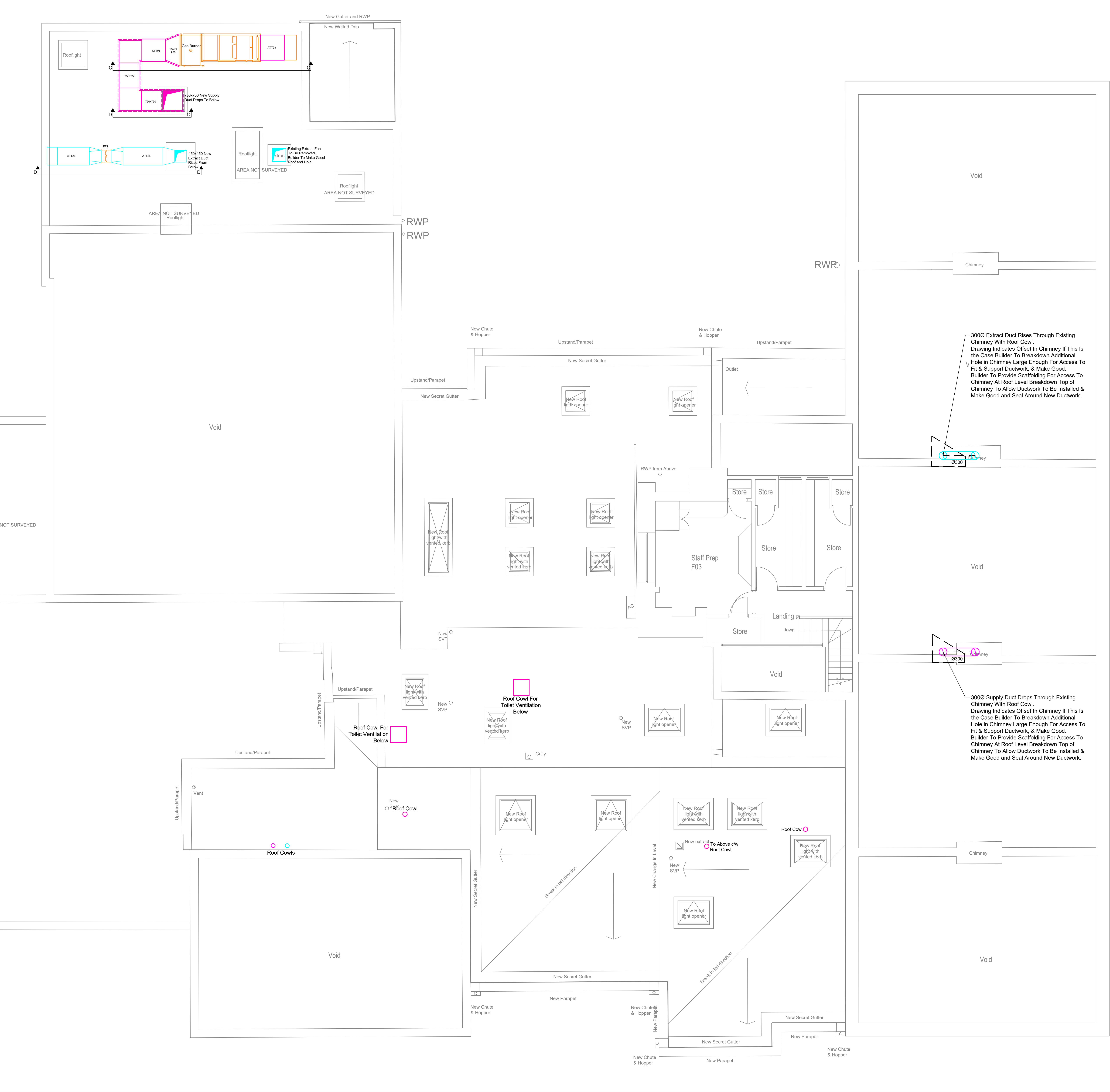
drawing

**Proposed Elevations and Section**

project number <b>2021.00751.000</b>		scale <b>As Indicated @A2</b>
drawing number <b>PLS-00-203</b>	rev	Issue status <b>Planning</b>


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AIR HANDLING UNIT SCHEDULE			
SYSTEM	KITCHEN	UNIT REF	AHU 1
MAXIMUM DIMENSIONS	LENGTH	3025 mm	
	WIDTH	1250 mm	
	HEIGHT	1050 mm	
Traight		486 kg	~5%
DUTY	SYSTEM DESIGN AIR FLOW RATE	1.430 m³/s	
COMPONENTS GENERALLY IN DIRECTION OF AIR FLOW - REFER TO SCHEMATIC FOR REQUIRED AHU COMPONENT ORDER			
INLET SECTION	TYPE	Weather Hood	
	FILTER CLASS	G4	
	FLOW RESISTANCE	27 Pa	
REGD FILTERS	FILTER CLASS	F7	
	FLOW RESISTANCE	73 Pa	
SUPPLY FAN	FAN AIR FLOW RATE AT SYSTEM DESIGN	1.430 m³/s	
	EXTERNAL SYSTEM DESIGN RESISTANCE	150 Pa	
	TOTAL SYSTEM DESIGN RESISTANCE	319 Pa	
MOTOR ELECTRICAL	POWER SUPPLY	3 PHASE	400 VOLTS 50 Hz
	MOTOR TO BE INVERTER DRIVEN?	YES yes/no	
	MAXIMUM MOTOR SPEED AT CAPABILITY DUTY	1723 rpm	
	MOTOR OUTPUT POWER AT CAPABILITY DUTY	2 kW	
	FULL LOAD CURRENT	3 A	
ACOUSTICS	dB Inlet Atmospheric Side	71	73 69 67 61 59 60 59
	dB Discharge Duct on Side	71	80 74 74 74 67 65 64
GAS FIRED HEATER & FUELUM	Burner Model	HEMANY40-S	
	Capacity	39.9 kW	
	Air On	4.0 °C	
	Air Off	18.0 °C	
	Gas Type	Natural Gas	
	Maximum Burner Duty	40.0 kW	

KITCHEN EXTRACT FAN SCHEDULE			
DIMENSIONS	Extractor	450 mm	
DUTY	SYSTEM DESIGN AIR FLOW RATE	1.680 m³/s	
	EXTERNAL SYSTEM DESIGN RESISTANCE	72 Pa	
MOTOR ELECTRICAL	POWER SUPPLY	1 PHASE	240 VOLTS 50 Hz
	MOTOR TO BE INVERTER DRIVEN?	YES yes/no	
	MAXIMUM MOTOR SPEED AT CAPABILITY DUTY	2910 rpm	
	MOTOR OUTPUT POWER AT CAPABILITY DUTY	1.32 kW	
	FULL LOAD CURRENT	4.71 A	
	STARTING CURRENT	15.50 A	
ACOUSTICS	dB Inlet Atmospheric Side	78 78 78 83 85 84 83 79 78	
	dB Discharge Duct on Side	80 76 85 86 84 83 79 77	
Breakout		70 59 63 63 59 55 57 53	



**W H GOOD Ltd**  
Building Services  
ELECTRICAL MECHANICAL AIR CONDITIONING  
COMMUNICATIONS BUILDING SERVICES

HEAD OFFICE: Cars Industrial Estate  
Haslingden Lancashire BB4 5JT.  
T: 0870 360 0110 F: 0870 360 0440

DRAWN	DATE	ISSUE	BY	REVISION DETAILS	CHKD	DATE
P R T HEW	14/04/2022					
APPROVED	DATE					
S W BARTON	20/04/2022					
CHECKED	DATE					
S W TATTERSALL	20/04/2022					
LAST REVISED	DATE					
BY						
SCALE						
1:50 @ A1						
DRAWING NUMBER						
PL-204-MSS						
STATUS	REVISION					
PROPOSED	1					

P1	PRT	FIRST ISSUE PROPOSED	SWT	20/04/22
		REVISION DETAILS	CHKD	DATE

CUSTOMER  
J GREENWOOD (BUILDERS) Ltd  
UNIT 18, GREENGATE INDUSTRIAL ESTATE  
GREENSIDE WAY, CHADDERTON, M24 1SW

DRAWING TITLE  
LUDWORTH PRIMARY SCHOOL  
LOWER FOLD, MARPLE BRIDGE  
RODPOCKET, M66 ISU  
ROOF VENTILATION SERVICES LAYOUT

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!

IMPORTANT CUSTOMER INFORMATION

!

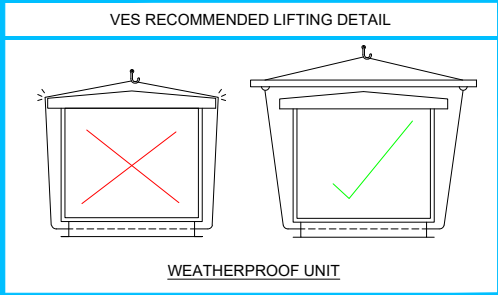
COMPONENT REMOVAL  
PLEASE ALLOW AT LEAST THE WIDTH OF THE UNIT ONTO THE ACCESS SIDE OF THE UNIT FOR REMOVAL, ACCESS AND MAINTENANCE OF ALL COMPONENTS.

!

EC MOTOR  
THIS UNIT WILL BE SUPPLIED WITH AN EC MOTOR – THESE CONTAIN AN INTEGRATED SPEED CONTROL AND DO NOT REQUIRE AN INVERTER.  
0 – 10 VOLT CONTROL VOLTAGE.

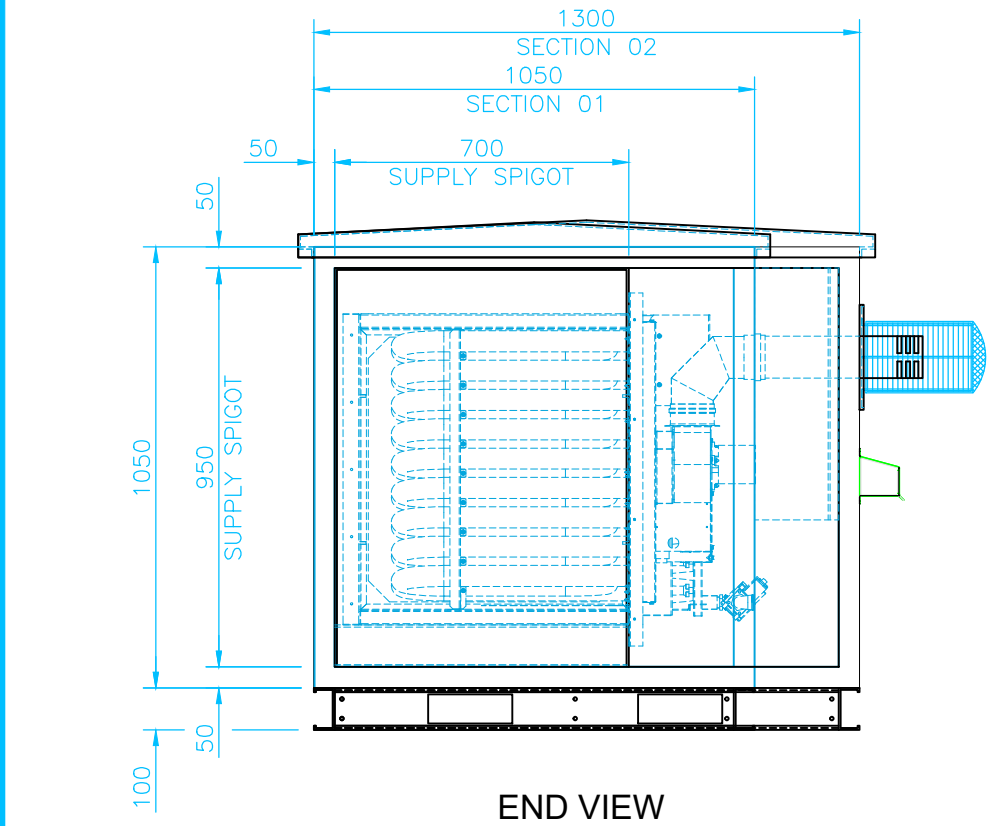
!

FITTED CONTROL PANEL  
PRE-WIRED SECTIONAL UNITS MAY REQUIRE RE-CONNECTION OF NUMBERED WIRES TO THE CONTROL PANEL BY OTHERS.  
PLEASE REFER TO CONTROL PANEL WIRING DIAGRAM FOR DETAILS.

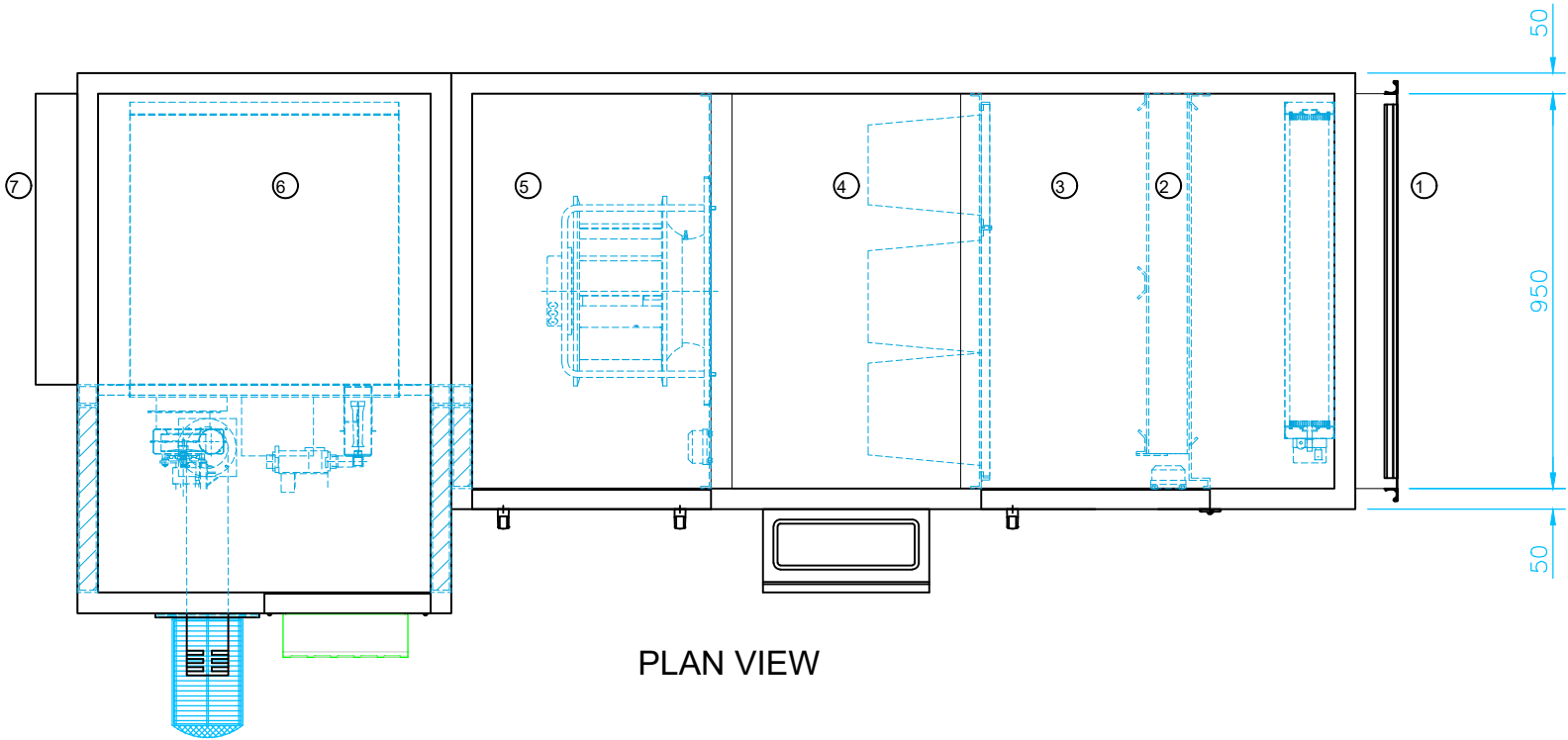


! SECTIONS  
THIS UNIT WILL BE SUPPLIED IN 2 SECTIONS

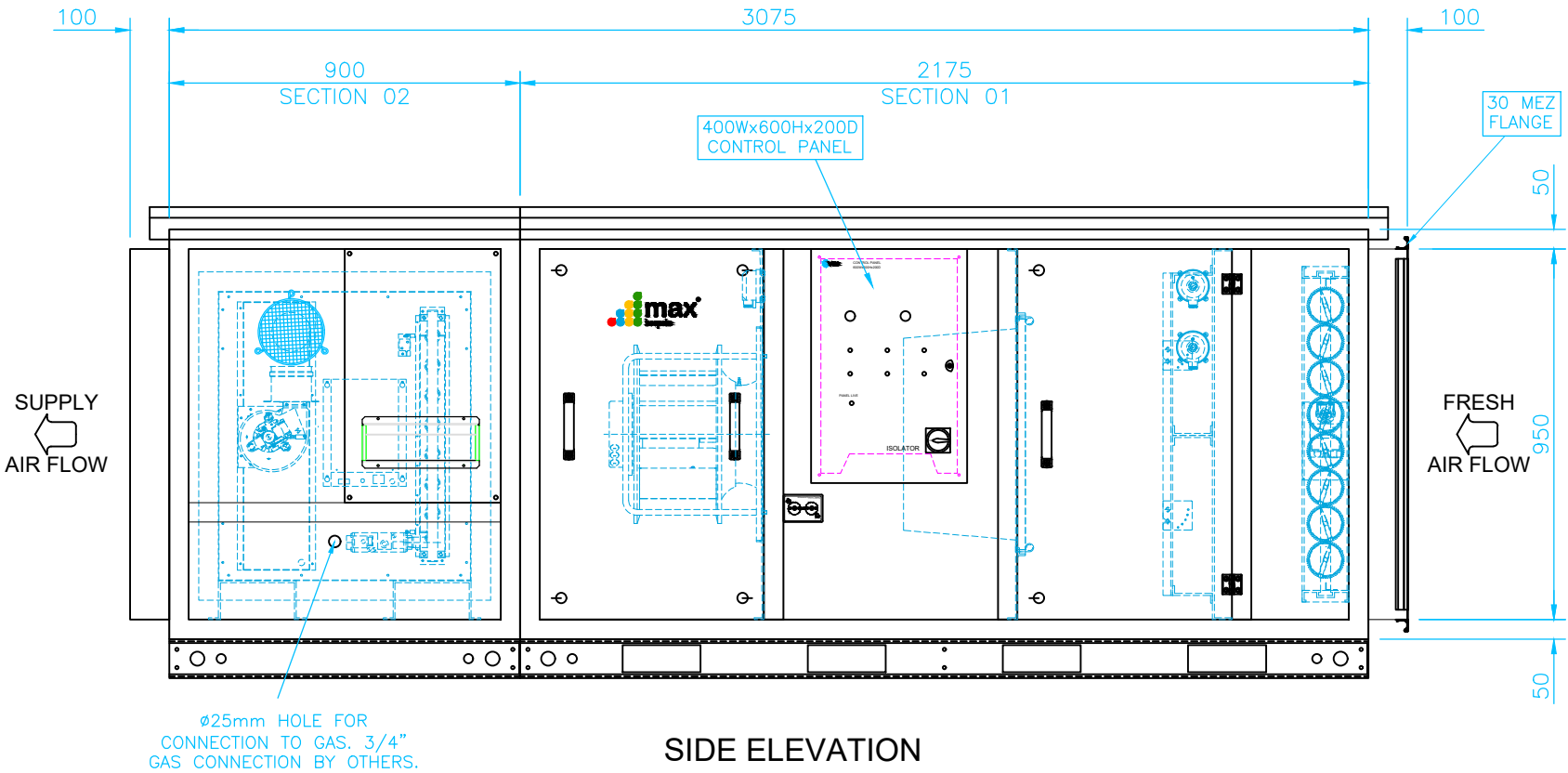
No.	Component	I/S Tube	Note
1	Inlet Section	250.0	
2	Panel Filter	200.0	
APS CLEAN PRESSURE DROP= 27Pa, DIRTY PRESSURE DROP= 77Pa			
3	Rigid Filter	300.0	
APS CLEAN PRESSURE DROP= 73Pa, DIRTY PRESSURE DROP= 173Pa			
4	Plenum	550.0	
5	Plug Fan	575.0	
6	Indirect Gas Burner	800.0	
7	Outlet Section	0.0	



END VIEW



PLAN VIEW



SIDE ELEVATION

VES

VES ANDOVER LTD.  
EAGLE CLOSE,  
CHANDLERS FORD INDUSTRIAL ESTATE,  
CHANDLERS FORD, EASTLEIGH,  
HAMPSHIRE, ENGLAND, SO53 4NF  
TEL: (08448) 15 60 60  
FAX: (023) 80261204  
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CONSTRUCTION: 50mm TUBULAR FRAME, FLUSH FITTING, DOUBLE SKINNED 50mm THICK PANELS  
FINISH: EXTERNALLY POWDERCOATED TO RAL7004  
INSULATION: MINERAL WOOL - 50mm  
ACCESS: RHS LOOKING IN DIRECTION OF AIRFLOW  
GAS CONNS': RHS LOOKING IN DIRECTION OF AIRFLOW

SECTION WEIGHTS: 01=297kg 02=192kg  
TOLERANCE: GENERAL ± 5.0mm DUCT CONNECTIONS ± 2.0mm  
MAX/W UNITS ARE SUITABLE FOR WEATHERPROOF/EXTERNAL MOUNTING ONLY.

ISS.	DATE	DESCRIPTION	CN No.
A	09.06.22	UNIT NOW LHS ACCESS. INLET COWL NOW SUPPLIED LOOSE. SPIGOT WITH FLANGE ADDED TO UNIT INLET	2002525

SUPPLY AIRFLOW	1.43	m3/s
SUPPLY E.S.P	150	Pa
EXTRACT AIRFLOW	N/A	m3/s
EXTRACT E.S.P	N/A	Pa

max

bespoke

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2016 PRODUCT PROTECTED BY DESIGN RIGHT

TITLE: MAX22/B/W/S

Q1193706-01-0-D1

SITE REF: LUDWORTH SCHOOL MARBLE - GAS FIRED KITCHEN SUPPLY AIR AHU

UNIT REF: KSF

DRAWN: MJM

DATE: 30.05.22

CHECKED: LCG

DATE: 01.06.22

DRAWING No.:

VES S/O No.:

SCALE:

ISS:

MX22BSM-2083358-01

SO2083358

NTS

A

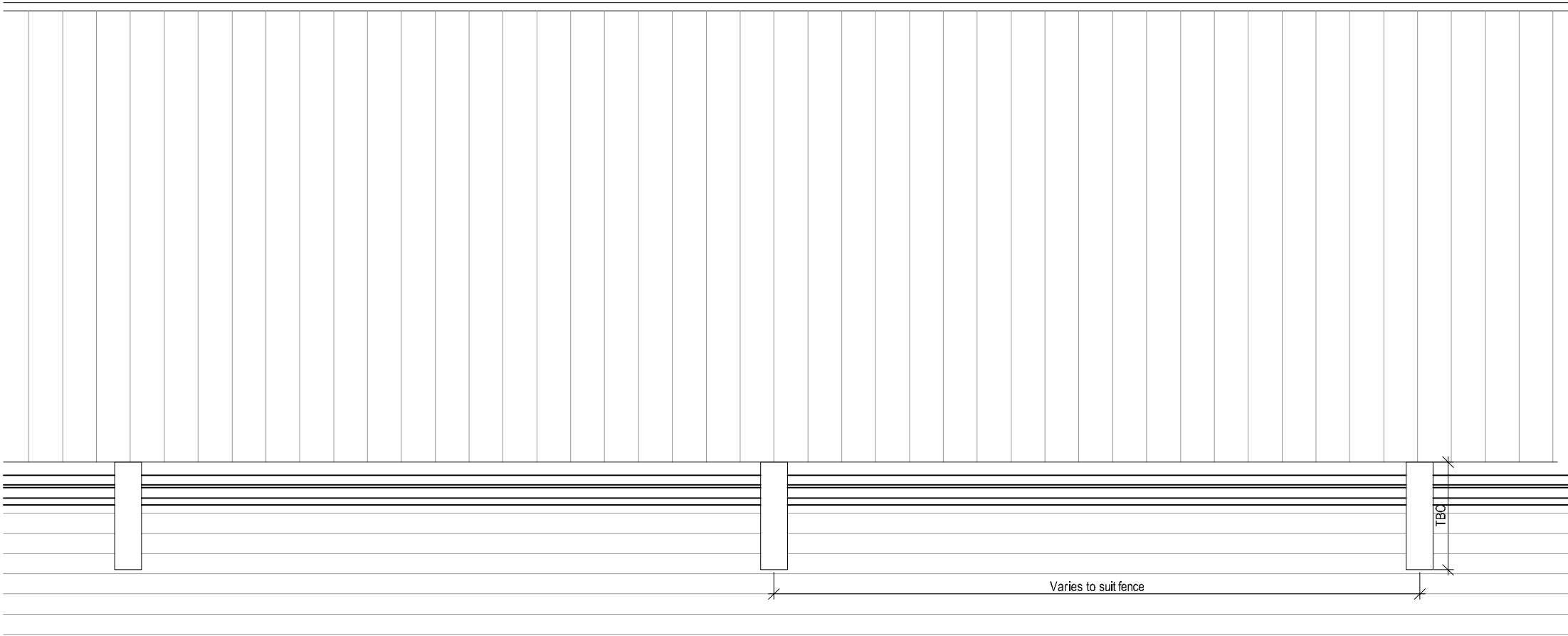
A2 MAX DRAWING BORDER : ID REF: 694

Notes

Fence:

Vertical timber close boarded fence, approximately 1750mm high, to screen the plant from neighbouring properties and to reduce noise impact.

Treated softwood sawn finish colour green to match fascia



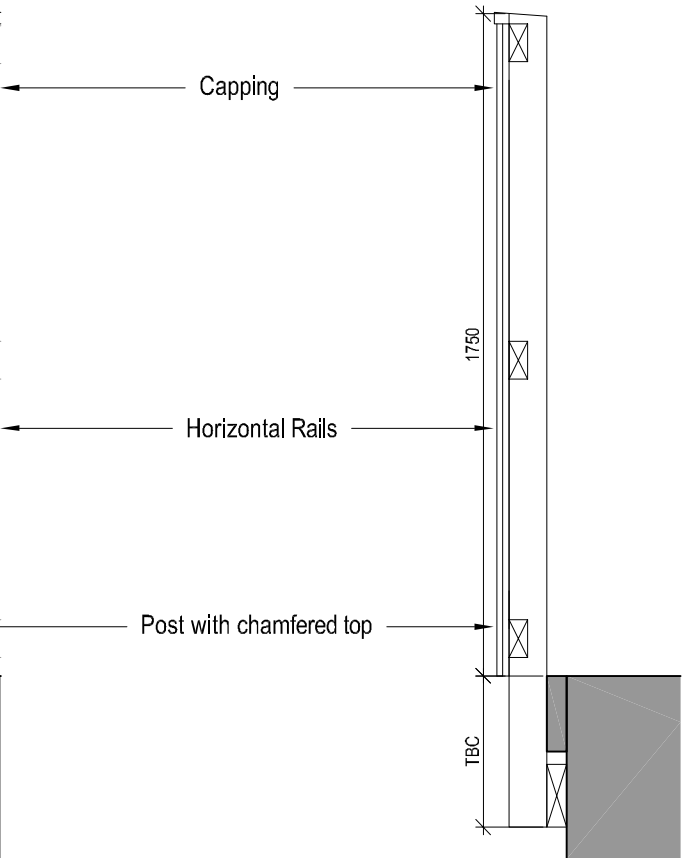
Typical Screen Fence Front Elevation

Scale 1:20 @ A2



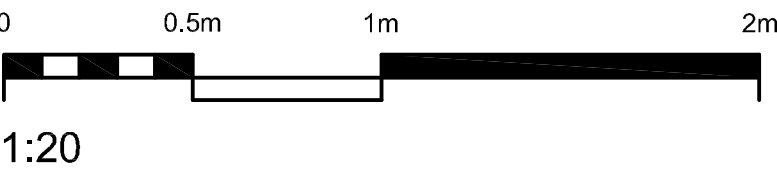
Typical Screen Fence Rear Elevation

Scale 1:20 @ A2



Typical Screen Fence Section

Scale 1:20 @ A2



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ASN		04.10.22		JW



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client Stockport Metropolitan Borough Council			
project Ludworth Primary School Air Handling Unit and Duct Installation			
drawing Fence Details			
project number 2021.00751.000	scale As Indicated	@A2	
drawing number PLS-90-203	rev	issue status Planning	

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