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- 4. All design, installation, commissioning, handover, and operation, shall be undertaken as a minimum in accordance with current British Standards, European Standards, Building Regulations, CIBSE Guidance, BSRIA Guidance, and any industry standard practice guides for the services being undertaken.
- 5. Positions of equipment are indicative as these are design drawings only. Exact positions and final site coordination shall be determined on site by the contractor.
- 6. Allow for all containment, hangers, brackets, and Unistrut channel and supports etc to provide a complete installation. The design of this shall be by the installation contractor.
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- 11. Lighting installation shall be carried out in accordance with Building Regulations, CIBSE Guides, and CIBSE **Lighting Codes**
- 12. The electrical installation is to be carried out in accordance with BS7671 + Amendments
- 13. Where specified, final circuit wiring shall be twin and earth LSF type cables on medium duty cable basket.
- 14. TPN split load and split metered distribution boards are to be complete with Type 3 surge protection device. Lighting circuits shall be complete with type C RCBO breakers.
- 15. A minimum of 25% electrical spare capacity and 20% spare out going ways shall be provided to all distribution boards unless otherwise stated. A minimum of 25% spare capacity shall be provided on cable containment.
- power unless otherwise stated.

16. All distribution boards to be split metered lighting and

17. Lighting installation shall be carried out in accordance

- with Building Regulations, CIBSE Guides, and CIBSE Lighting Codes 18. All emergency illuminated signage is to comply with
- the requirements of BS5499 and project fire strategy.
- 19. A bank of emergency lighting key switches are to be provided adjacent the local distribution board where not detailed within individual rooms.
- 20. All external luminaires are to be controlled via a photocell and timeclock arrangement complete with override switch.
- 21. All internal and external lighting products shall be those as manufactured by 'Dextra' or equal and approved.

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Lighting Lux Level Strategy		
Strategy	Lux Level	
	100 Lux	
	150 Lux	
	200 Lux	
	250 Lux	
	300 Lux	
	400 Lux	
	500 Lux	

Lighting Control

Strategy

Number		Control Method	
1		Manual Control	
2		Presence detection c/w local control	
3		Retractive switch - On Automatic absence detention - Off	
	Light Fittir	ngs x/A	
Image	Refernce	Description	
	A 600 x 600 Flat Panel LED recessed luminaire		
	Recessed LED downlighter		

luminaire

IP44 rated

G Decorative pendant

1 / x

600 x 600 LED recessed IP54

Recessed LED downlighter

Surface mounted (IP65 rated)

LED linear luminaire

P01	Tender Issue	12.12.17	KLE	DH	MM
Revisions		Date	Drawn	Chk'd	Aprv'o



Birstall Parish Council

Birstall Community Hall

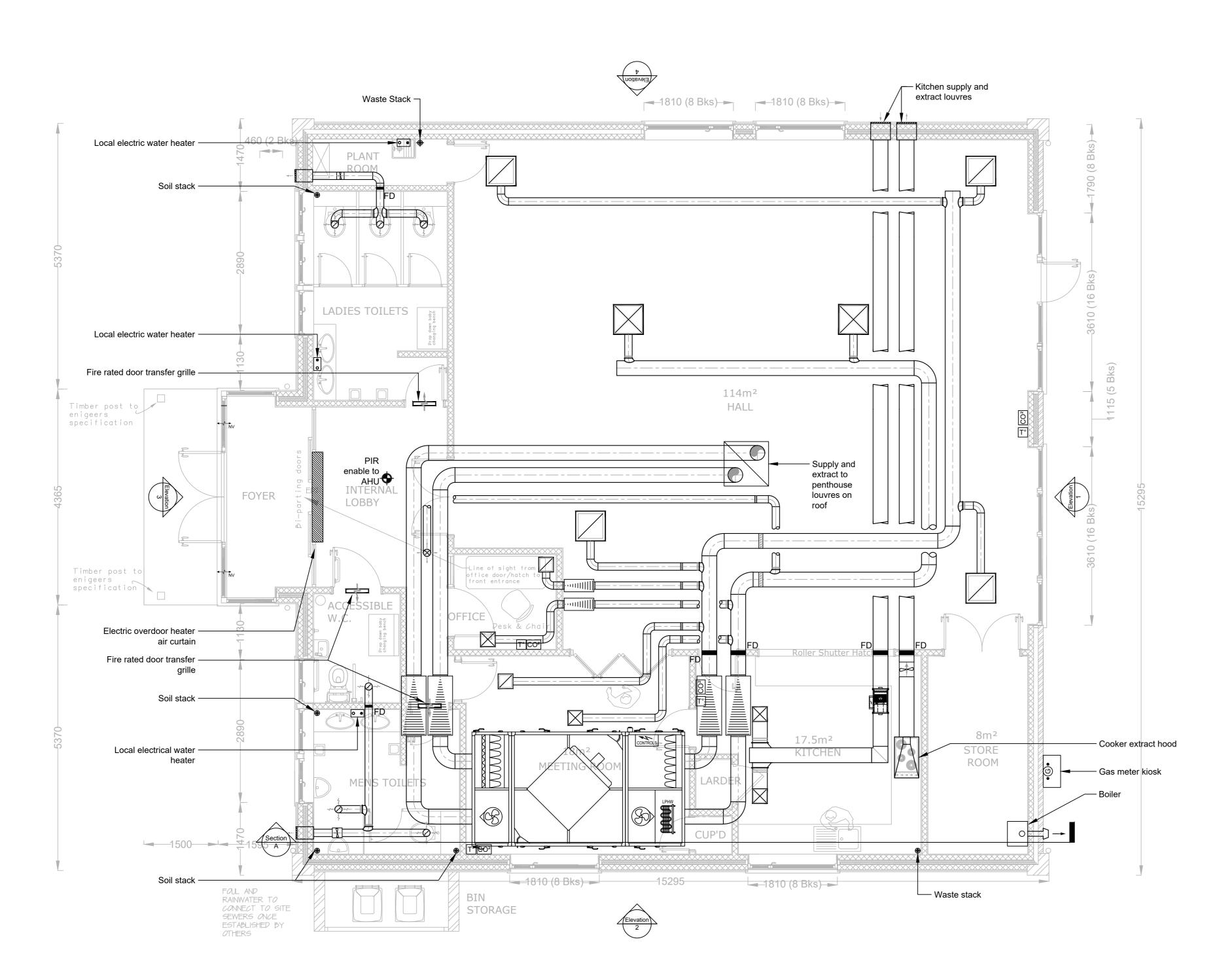
Drawing Title

Proposed Lighting Strategy

Scale	- unless otherwise stated	Purpose of issue		
	1:50 @ A1	D2 - Issued for tender		
V 5				
Xref	Hallam Fields Community Hall REV C 230817 (NR)			

170062-BEC-XX-XX-DR-E-0100

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Domestic Water Notes

1. Water pipework shall be Mapress Copper unless specified otherwise.

2. Where specified, pipework shall be soldered Yorkshire 2. Where specified, pipework shall be plastic multi layer composite with crimped fittings Copper tube.

unless specified otherwise. composite with crimped fittings

4. Insulation shall be pre formed foil faced mineral wool 4. All pipework shall be insulated in accordance with unless specified otherwise.

5. All pipework shall be insulated in accordance with British Standards to minimise heat loss, heat gain, condensation/freezing depending on the nature/temperature of the medium being

and wrapped in PIB sheeting or aluminium cladding.

boiler room and all high level pipework within the 8. Pipe identification bands with direction of flow arrows shall be added to all pipe runs within the boiler room and all high level pipework within the rest of the

Water pipework below ground shall be blue MDPE with solvent welded joints. Protectaline type MDPE

shall be used unless specifically instructed otherwise. with sleeves flush to surfaces where exposed. Refer 10. Gas pipework shall be Mapress Stainless Steel unless specified otherwise. compartment walls.

Yorkshire Copper tube. 12. Where specified, gas pipework shall be medium grade

13. Gas pipework below ground shall be yellow MDPE with solvent welded joints

15. All Safety Valves to discharges shall be piped to a foul drain connection via Tundish c/w Dry trap if trap is

sleeved and fire stopped (BS476, 1 hour minimum), with sleeves flush to surfaces where exposed. Refer to fire strategy drawings for locations of compartment walls. 17. Pipework systems to be pressure tested to 1.5 times

final working pressure as a minimum, or higher as required by other contract documentation or system

19. All pipework systems to incorporate automatic

allow for natural airing/drainage. 20. Proprietary commercial grade metal hangers and brackets shall be used for all pipework.

21. Mechanical controls and associated power wiring and containment etc. shall be undertaken by the controls specialist as a sub-contractor to the mechanical contractor.

22. All pipework systems shall be flushed through, chlorinated and sample tested prior to final testing and commissioning. 23. All items of plant and equipment are to be installed

with isolating valves and unions, located to enable access for maintenance and removal of plant and equipment. 24. Contractor to allow for specialist design & installation

of pipework expansion including devices, hangers and 25. Thermostatic mixing valves to be TMV3 type.

26. Thermostatic mixing valves shall be provided on all

the valve shall not exceed 1.0m in length in general building, and to be within 100mm of the outlet in case homes and medical buildings.

commission devices, prior to first fix.

28. Isolation valves shall be provided on all outlets. 29. All appliance and sanitaryware shall be fitted with

their own WRAS approved isolation. 30. System shall be fitted with all valves necessary to fully balance and commission. The contractor shall seek confirmation from his commissioning contractor that he is satisfied with the quantity and specification of all

31. All gas pipework routed through risers/ceiling voids to be suitably ventilated in accordance with current gas

Heating Notes

 Where specified, pipework shall be soldered Yorkshire Copper tube.

3. Where specified, pipework shall me plastic multi layer 3. Insulation shall be pre formed foil faced mineral wool

All pipework shall be acoustically insulated or British Standards to minimise heat loss, heat gain, alternative acoustic grade pipework utilised. condensation/freezing depending on the All horizontal small waste pipework material shall be nature/temperature of the medium being in MuPVC to BS 5255 as per "200-Solvent" range transported. manufactured by Polypipe Terrain.

5. All external pipework to be trace heated, insulated and wrapped in PIB sheeting or aluminium cladding.

6. All external pipework to be trace heated, insulated 6. All valves to be covered using "Flexi-wrap" insulated 7. All valves to be covered using "Flexi-wrap" insulated 7. Pipe identification bands with direction of flow arrows shall be added to all pipe runs within the

> rest of the building. . All Safety Valves to discharges shall be piped to a foul drain connection via Tundish c/w Dry trap if trap is

9. All pipework passing through walls and floors is to be sleeved and fire stopped (BS476, 1 hour minimum),

allow for natural airing/drainage.

specialist as a sub-contractor to the mechanical

heating water treated with chemical inhibitor, and

18. The system design and operating temperatures shall

be confirmed with the engineer but shall provisionally

sample tested prior to final testing and

to fire strategy drawings for locations of 11. Where specified, gas pipework shall be soldered 10. Pipework systems to be pressure tested to 1.5 times

> final working pressure as a minimum, or higher as required by other contract documentation or system 11. Auto air vents and drain points shall be installed at all

system high/low points respectively. 12. All pipework systems to incorporate automatic 14. No buried pipework shall be within 1m of building airing/drainage by being installed to gradients to

13. Proprietary commercial grade metal hangers and brackets shall be used for all pipework. 14. Mechanical controls and associated power wiring and 16. All pipework passing through walls and floors is to be containment etc. shall be undertaken by the controls

15. All pipework systems shall be flushed through,

16. All items of plant and equipment are to be installed with isolating valves and unions, located to enable 18. Auto air vents and drain points shall be installed at all access for maintenance and removal of plant and system high/low points respectively.

17. Contractor to allow for specialist design & installation airing/drainage by being installed to gradients to of pipework expansion including devices, hangers and 16. All access pipes and rodding eye access points to be

contractor.

be 80/60, unless specified differently elsewhere. The system cold fill pressure shall be confirmed with the engineer prior to commission. 20. System shall be fitted with all valves necessary to fully balance and commission. The contractor shall

> seek confirmation from his commissioning contractor that he is satisfied with the quantity and specification of all commission devices, prior to first fix. 21. The contractor shall ensure the main contractor marks out clearly & accurately any

> > pipework prior to and during floor fixing.

fixtures/fittings/walls etc, not yet installed, that need to be avoided with UFH pipework. 22. Hang the manifold at a minimum of 250mm from the finish floor level. Access to the manifold is essential.

23. Underfloor heating pipework should not run under any fixed appliances such as toilets or kitchen units unless specifically stated otherwise. 27. Where TMVs are installed, the outlet pipework from 24. Pressure test of a minimum of 3 bar and a maximum of 6 bar must be applied to all the underfloor heating

Drainage Notes Ventilation Notes Sanitary plumbing installation shall be installed in accordance with BS EN 12056:5 and BS 8000 Part 13,

manufactured by Polypipe Terrain.

retail units, cast iron.

Sink - 40Ø MuPVC

WHB - 32Ø MuPVC

WC - 110Ø PVC-U

shall be belltop roddable.

standpipes)

Shower - 40Ø MuPVC

Washing machines/Dishwashers to

All pipework passing through walls and floors is to

minimum), with sleeves flush to surfaces where

be sleeved and fire stopped (BS476, 1 hour

flanged connections, or galvanised spiral, as specified Building Regulations, and local authority on the drawing, unless specified otherwise. 2. Where specified, ductwork shall be PVC circular or All main soil & ventilation pipework shall be in flat duct to suit the space available.

PVC-U to BS 4514, as per "100-Solvent" range All ductwork shall be insulated in accordance with British Standards to minimise heat loss, heat gain, condensation/freezing depending on the nature/temperature of the medium being

> All external ductwork shall be, insulated and wrapped in PIB sheeting or aluminium cladding. All condensate drains shall be piped to a foul drain

Pipework exposed externally, within car parks, and connection via Tundish c/w Dry trap if trap is Unless stated elsewhere, sizes of waste pipes from single sanitary fittings shall be as follows:-6. All ductwork passing through walls and floors is to be fire stopped (1 hour minimum), with fire dampers as

> accordance with the fire strategy. Refer to fire strategy drawings for locations of compartment Ductwork systems to be pressure tested.

a minimum. Smoke dampers shall be installed in

Access doors shall be provided in accordance with

DW144 for cleaning and for access to all fire and

be 400 MuPVC (by special trap to sink or trapped 8. Duct identification labels with direction of flow Unless specified elsewhere, traps to shower trays arrows shall be added to all duct runs.

9. Proprietary commercial grade metal hangers and brackets shall be used for all ductwork. All horizontal soil & waste pipework running at H/L in occupied areas shall be acoustically insulated or 10. All ductwork to be installed and conform to DW144 / installed using Terrain Acoustic dB12.

smoke dampers. This shall also include access doors exposed. Refer to fire strategy drawings for in ceilings as necessary. locations of compartment walls. 12. All grilles to be located centrally in ceiling tiles unless 10. All pipework penetrating a fire wall or fire slab shall

otherwise indicated. be fire stopped using a Terrain Firetrap fire collar.

13. All grilles shall be extruded aluminium colour to be 8. Do not scale from this drawing. 11. Pipework systems to be pressure tested confirmed by the engineer before ordering. 12. Proprietary commercial grade hangers and brackets 14. Grille boxes to be side or top entry to suit

shall be used for all pipework. coordination with other services on site. Contractor to allow for specialist design & 15. All grilles/diffusers shall be located centrally in ceiling installation of pipework expansion including devices, tiles unless otherwise indicated. hangers and anchors.

16. Maximum of 500mm of flexible ductwork to be used 14. All 90° bends on wet sections of soil & waste for final connections to grilles. Flexible duct shall be pipework shall be either long radius or 2no. 45° PVC. Where top entry grille boxes are used, ductwork short radius bends. 90° short radius bends are not should terminate with rigid downturn bend prior to acceptable except on ventilation pipework, the flexible connection. horizontal small wastes and immediately behind WCs when connecting to them.

connection and VCD. Access points to be provided at 1200mm AFFL (unless this height renders the access point inaccessible) on all floors to all vertical stacks and as blade VCDs are not permitted. shown on the drawings.

19. Doors shall be undercut by 20mm, unless prohibited by the fire strategy or any other reason. Should this located in accessible positions. All stub stack air admittance valves shall be located above the spill over level of the highest connected

> 20. Mechanical controls and associated power wiring and containment etc. shall be undertaken by the controls specialist as a sub-contractor to the mechanical

fully balance and commission. The contractor shall seek confirmation from his commissioning contractor that he is satisfied with the quantity and specification of all commission devices, prior to first fix.

Ductwork shall be galvanised constriction with bolted 1. This drawing is the property of Built Environment Consulting (BEC). Copyright is reserved by them and the drawing is issued on the condition that it is not

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accordance with current British Standards, European Standards, Building Regulations, CIBSE Guidance, BSRIA Guidance, and any industry standard practice guides for the services being undertaken. Positions of equipment are indicative as these are

coordination shall be determined on site by the 6. Allow for all containment, hangers, brackets, and Unistrut channel and supports etc to provide a complete installation. The design of this shall be by

7. Ensure all services are fully coordinated before procurement or installation.

9. All dimensions are in millimetres unless stated 10. If this drawing is issued in DWG format it is an uncontrolled version and is provided to enable the recipient to prepare its own drawing for which they

17. All branches off main duct shall include shoe/boot

18. All VCDs are to be multi-blade or iris type. Single

be prohibited, the consultant shall be made aware by the contractor, so door transfer grilles or other means can be considered.

21. System shall be fitted with all dampers necessary to

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It is recognised that this drawing indicates details

Ventilation Legend

beyond that normally provided to define the

contract documents, the Contractor shall se clarification in good time before procurement installation. Any discrepancies are to be broad	nt or	Symbol	Description
the attention of the engineer and clarification sort.		$\oplus $	Spiral drop/riser
All design, installation, commissioning, hand operation, shall be undertaken as a minimum	m in	₹nv	Natural ventilation
accordance with current British Standards, E Standards, Building Regulations, CIBSE Guida BSRIA Guidance, and any industry standard p	ance,		Door transfer grille
guides for the services being undertaken. Positions of equipment are indicative as the		~-\$-~	Circular extract air terminal
design drawings only. Exact positions and final site coordination shall be determined on site by the contractor.			Circular supply air terminal
Allow for all containment, hangers, brackets Unistrut channel and supports etc to provide	e a		Square extract air terminal
complete installation. The design of this sha the installation contractor.	ll be by	\boxtimes	Square supply air terminal
Ensure all services are fully coordinated before procurement or installation.	ore	□ →	External louvre c/w plenum box
Do not scale from this drawing.		FD	Intumescent/Fusible link fire
All dimensions are in millimetres unless stat otherwise.	ea		damper
If this drawing is issued in DWG format it is an uncontrolled version and is provided to enable the		VCD	Volume control damper
recipient to prepare its own drawing for whi are solely responsible. It is based on information	ch they ation	*	Inline duct fan
current only at the time of producing the dra Built Environment Consulting (BEC) accepts liability for any alterations to, additions to or	no		Attenuator
discrepancies arising out of changes which o it has been issued by BEC.	•		Overdoor air curtain
		T°	Thermostat
		CO ²	CO ² Sensor
		PIR	PIR infra-red switch
			Boiler
		•©•	Gas meter
		0	Water heater
		•	Stub stack
		因	Extract hood
			Heat recovery unit
			Kitchen supply fan with heater battery
		Section	Section/Elevation

12.12.17 KLE WJ MM P01 Tender Issue Date Drawn Chk'd Aprv'd



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Birstall Parish Council

Birstall Community Hall

Proposed Mechanical Services

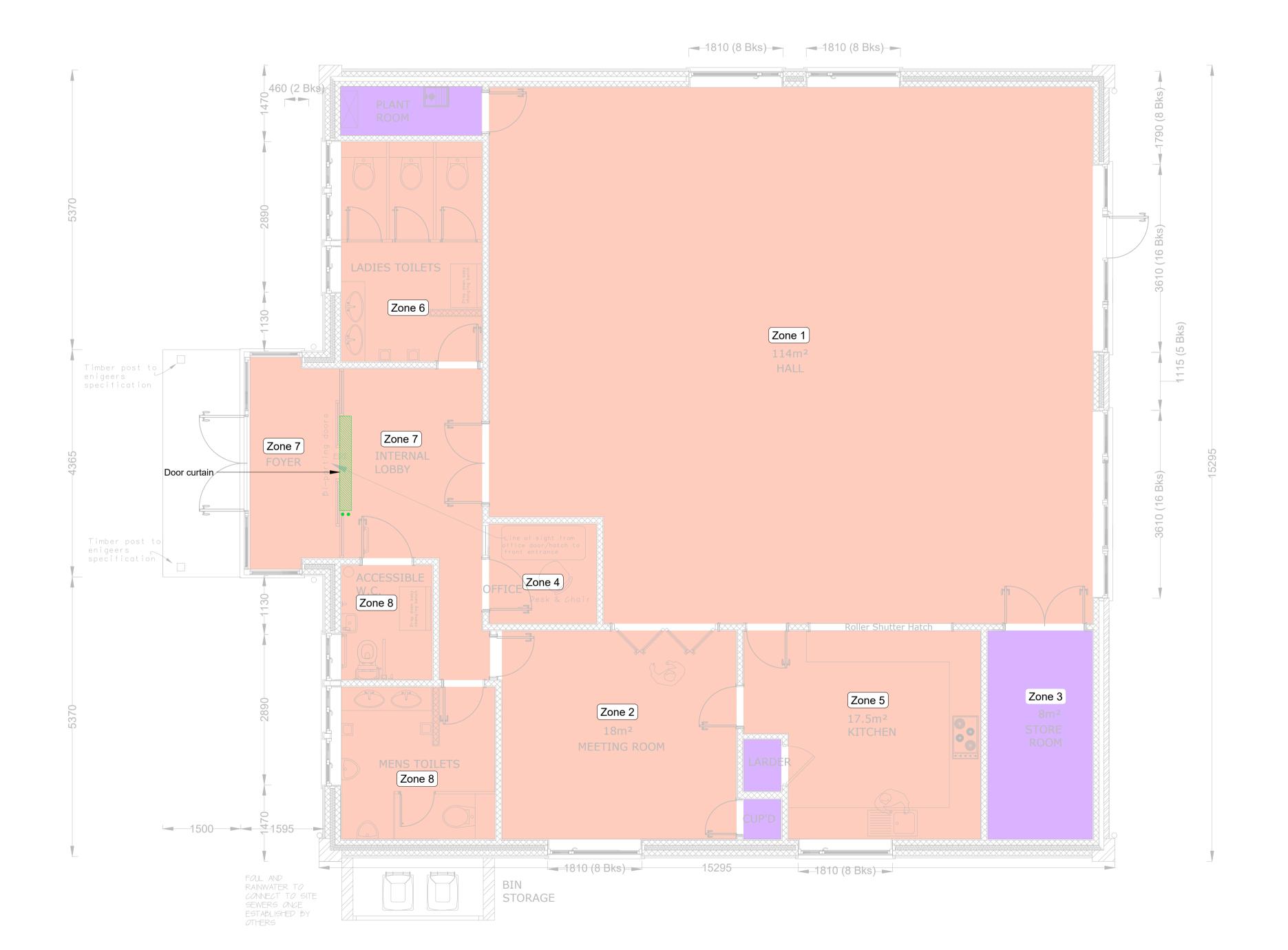
Scale - unless otherwise stated Purpose of issue 1:50 @ A0 D2 - Issued for tender

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Heating Strategy

Colour Underfloor Heating

No Heating

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- Unistrut channel and supports etc to provide a complete installation. The design of this shall be by the installation contractor.

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Birstall Community Hall

Proposed Heating Strategy

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Birstall Community Hall

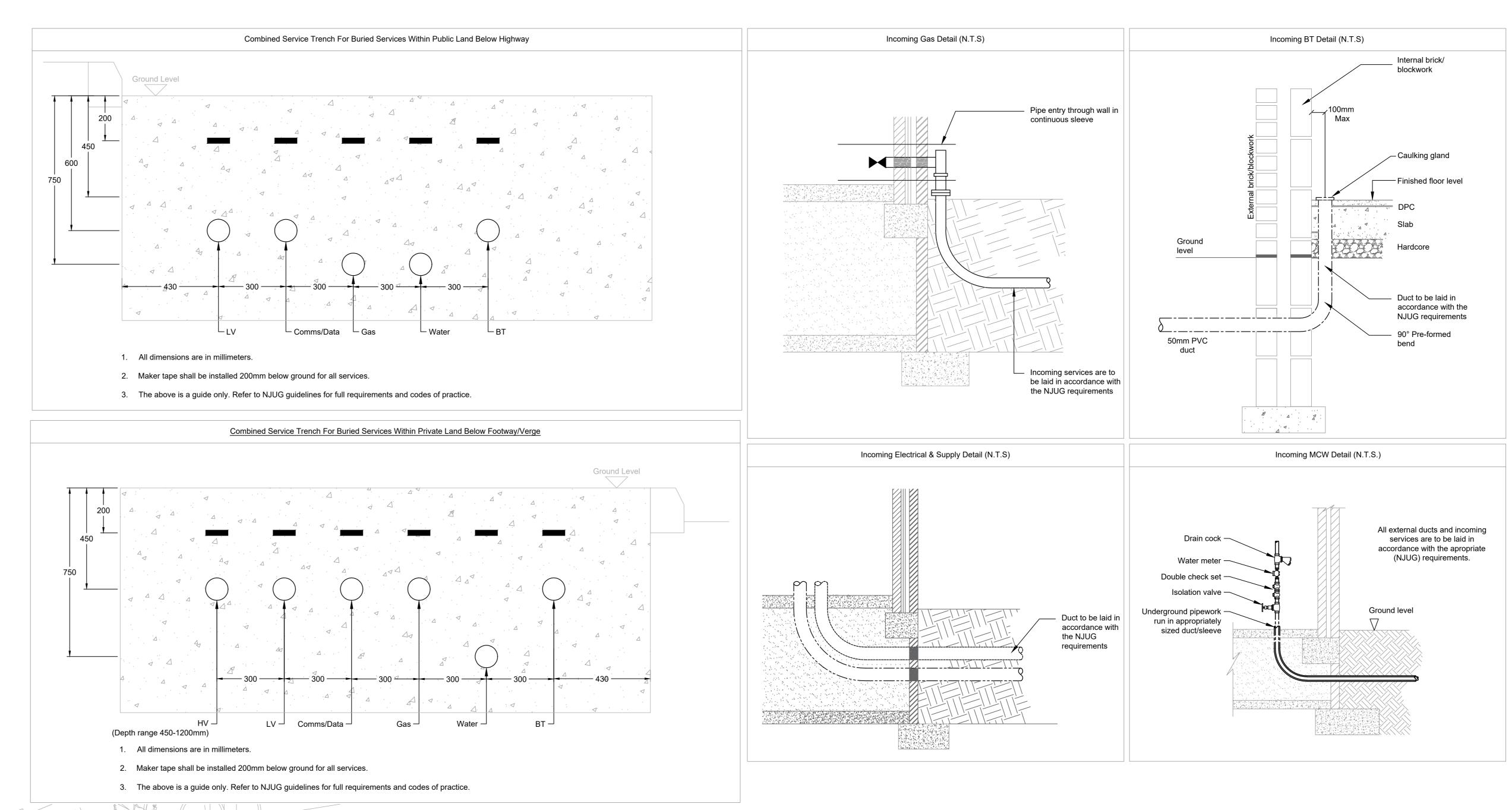
Proposed Ventilation Strategy

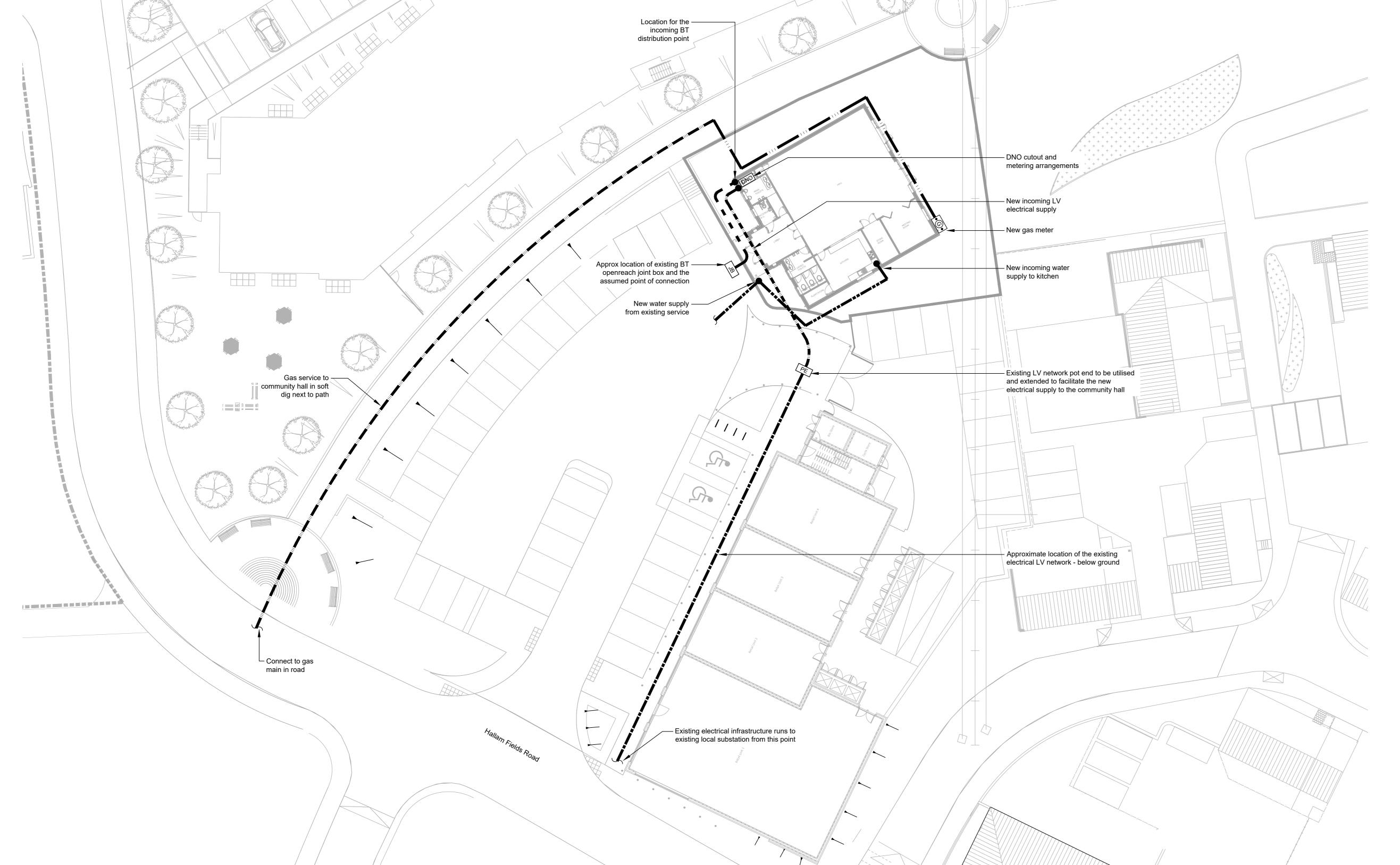
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Standards, Building Regulations, CIBSE Guidance,

BSRIA Guidance, and any industry standard practice guides for the services being undertaken.

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coordination shall be determined on site by the

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- 11. Water pipework below ground shall be blue MDPE with solvent welded joints. Protectaline type MDPE shall be used unless specifically instructed otherwise.12. Gas pipework below ground shall be yellow MDPE
- with solvent welded joints

 13. Incoming electricity cables shall be to DNO specification
- 14. Private electricity cables shall be XLPE/SWA/LSF

laid out by the relevant utility company and site conditions. Any deviations from the drawings shall be notified to and agreed with BEC prior to installation.

- All external ducts and incoming services are to be laid in accordance with the NJUG requirements.
- 16. The final routing of all external services, duct routes, cable draw pits etc. are to be determined by the main contractor, electrical contractor and mechanical contractor in accordance with the full requirements
- 17. All ducts shall be 150mm did Rigiduct installed complete with draw pit every 30m, draw wires and slow sweeping radius bends to facilitate installation of
- 18. All cable draw pits installed shall be capable of withstanding vehicular weight.
- 19. The contractor shall ensure that all ducts are free from rubble and not subject to being crushed prior to
- back filling and making good.

 20. All underground services shall be a minimum of 1m away from any building foundation.

away from any build	ling foundation.			
Incoming	g Services Legend			
Symbol Description				
	Incoming natural gas pipework			
	Incoming water pipework			
	Incoming BT supply (duct to BT specification)			
	Electrical infrastructure			
	Existing electrical infrastructure			
DNO	DNO cutout and metering arrangements			
PE	Electrical pot end			
JB	BT Openreach joint box			
5	Duct / pipe break			
•	Building entry point / riser			
•ⓒ•	Utility gas meter position c/w ventilated IP65 rated RGP			

P01	Tender Issue	12.12.17	KLE	WJ	MM
Revis	Revisions		Drawn	Chk'd	Aprv'd
		_	_	_	

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Birstall Parish Council

Birstall Community Hall

ing Title

Proposed Incoming Services

Scale - unless otherwise stated
1:20 @ A0

Purpose of issue
D2 - Issued for tender

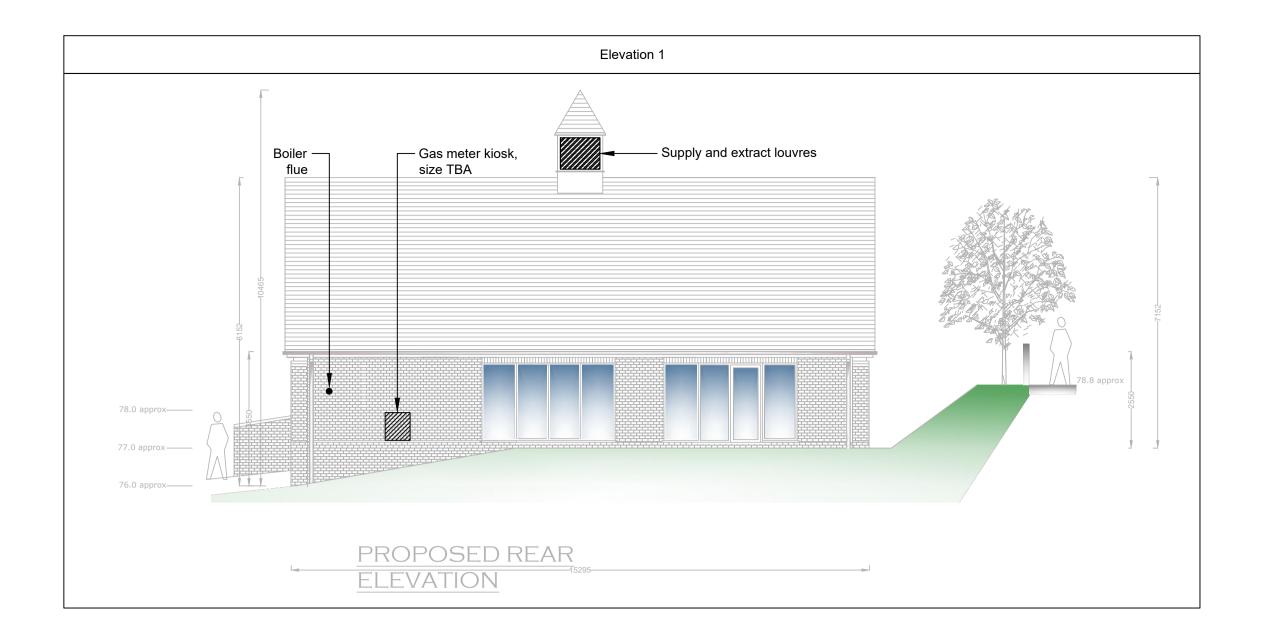
Xref

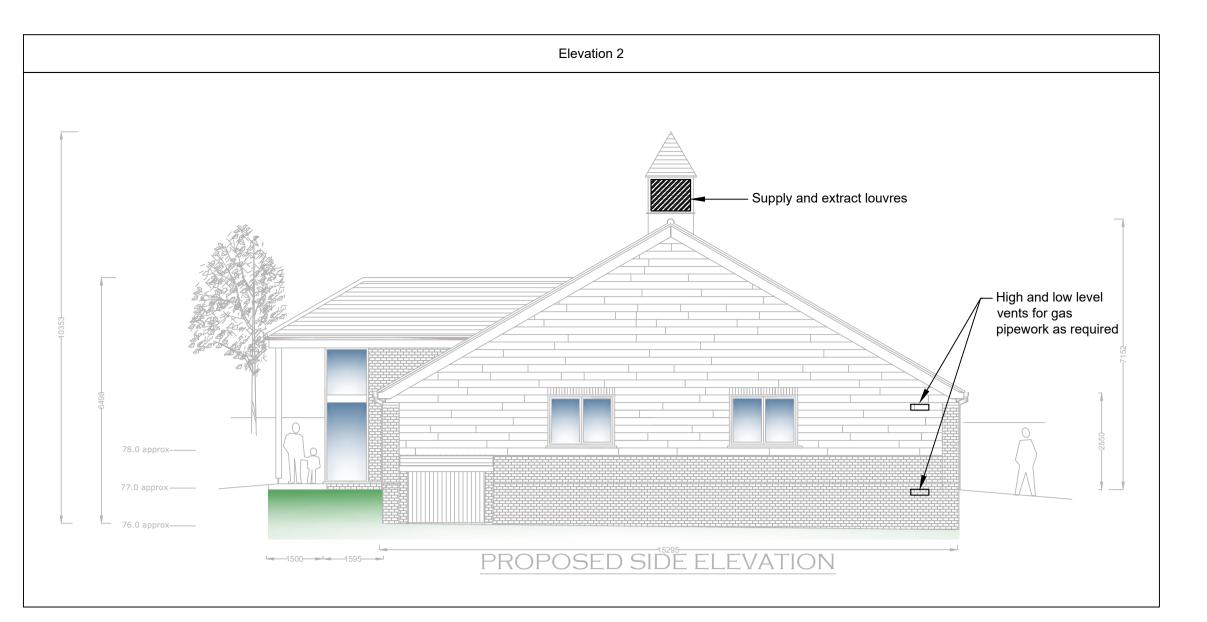
Commercial Area, Combo Layout

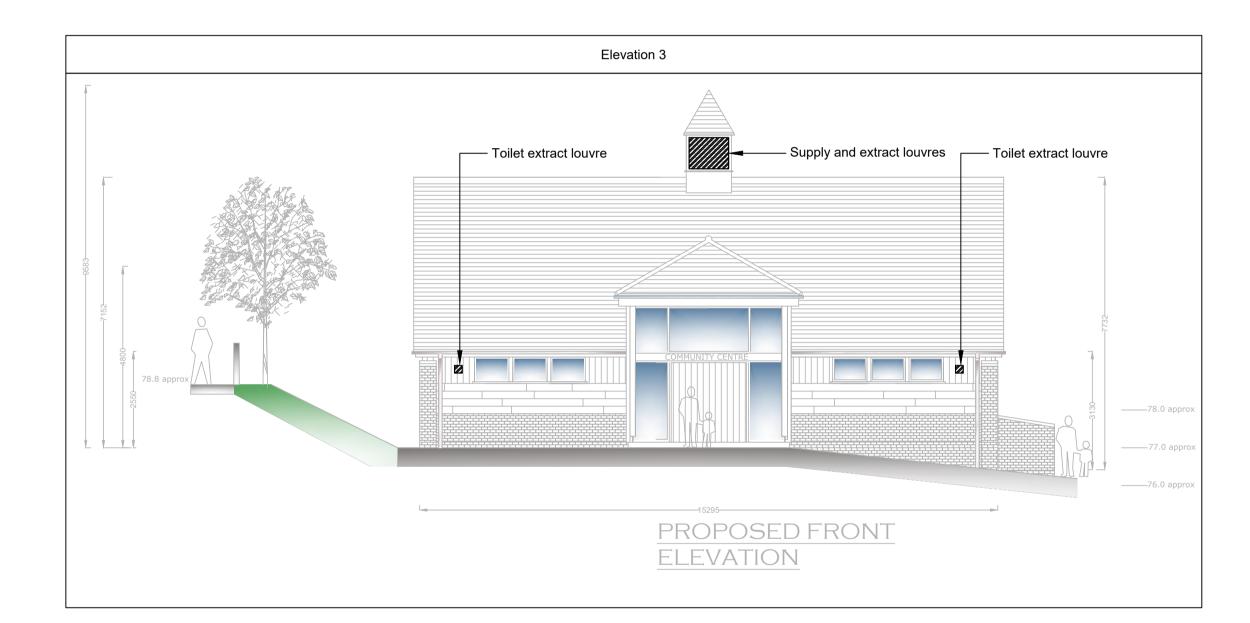
Drawing Number
170062-BEC-XX-ZZ-DR-Z-100 P01

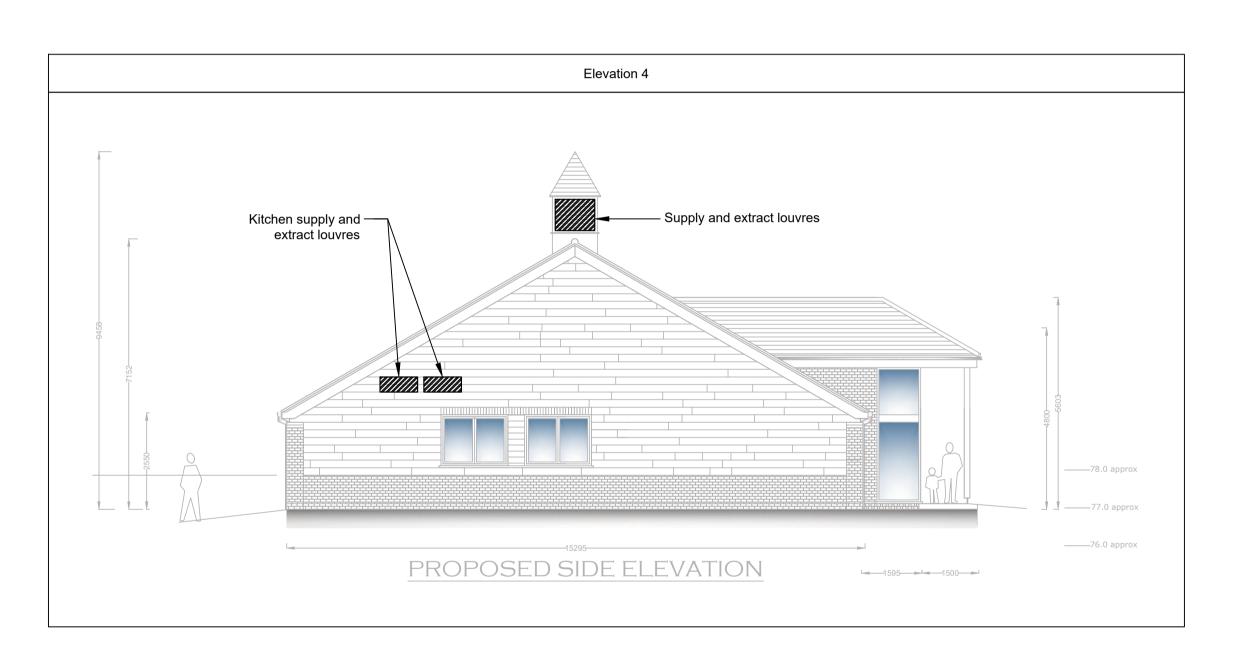
ISO 9001:2015 Registered Firm Number 20164353

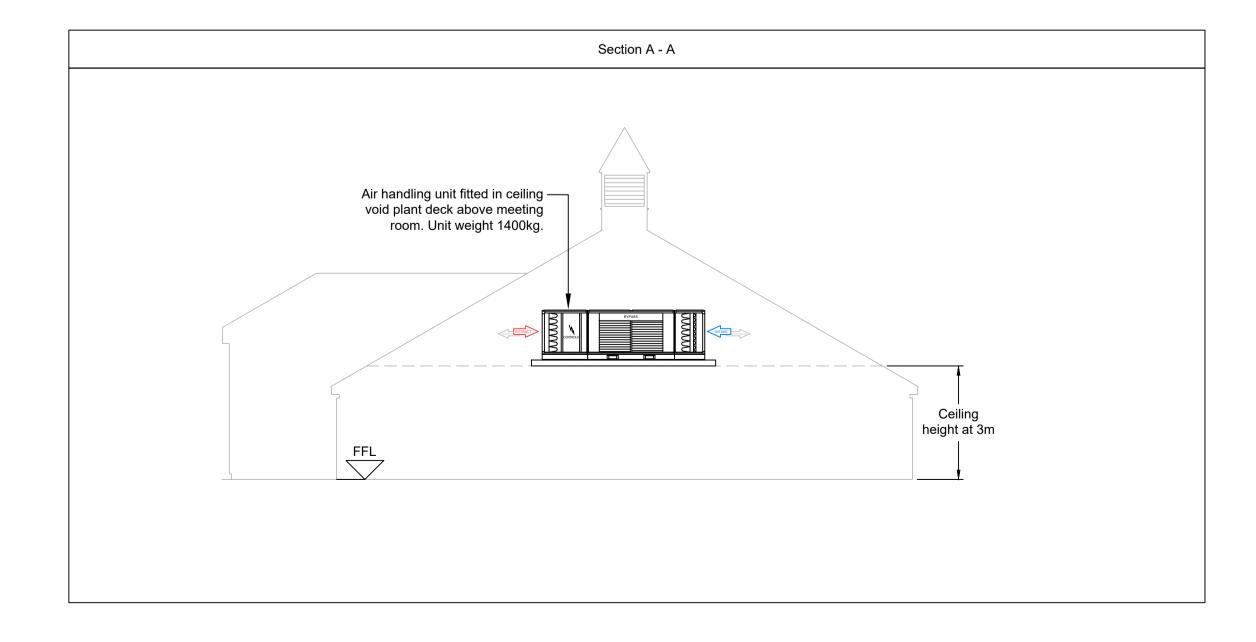
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It is recognised that this drawing indicates details beyond that normally provided to define the performance requirements. However, the contractor is responsible for the mechanical and electrical systems design under the contract and any sizes or positions of equipment are only indicative. The contractor shall refer to the performance requirements set out in the tender documentation in order to complete the design and installation of the mechanical and electrical systems to meet these performance requirements.

<u>Not</u>

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- Should differences be present between drawings, specification, and room data sheets, and any other contract documents, the Contractor shall seek clarification in good time before procurement or installation. Any discrepancies are to be brought to the attention of the engineer and clarification to be sort.
- 4. All design, installation, commissioning, handover, and operation, shall be undertaken as a minimum in accordance with current British Standards, European Standards, Building Regulations, CIBSE Guidance, BSRIA Guidance, and any industry standard practice guides for the services being undertaken.
- Positions of equipment are indicative as these are design drawings only. Exact positions and final site coordination shall be determined on site by the contractor.
- Allow for all containment, hangers, brackets, and Unistrut channel and supports etc to provide a complete installation. The design of this shall be by the installation contractor.
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 P01
 Tender Issue
 12.12.17
 KLE
 WJ
 MM

 Revisions
 Date
 Drawn
 Chk'd
 Aprv'd



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Birstall Parish Council

Projec

Birstall Community Hall

Drawing Title

Elevations

Scale - unless otherwise stated
1:100 @ A1 Purpose of issue
D2 - Issued for tender

Xref Hallam Fields Community Hall REV C 230817 (NR)

Drawing Number
170062-BEC-XX-ZZ-DR-Z-500
P

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DRAWING AND DOCUMENT ISSUE REGISTER



DATE OF ISSUE CLIENT: Birstall Parish Council DAY 12 **PROJECT: Birstall Community Hall** MONTH 12 **JOB No: 170062** Sheet: 1 YEAR 17 Doc No: DOCUMENT TITLE Scale Revision 170062-BEC-XX-Proposed Lighting Strategy 1:50 P01 XX-DR-E-0100 170062-BEC-XX-P01 **Proposed Mechanical Services** 1:50 XX-DR-M-0300 170062-BFC-XX-**Proposed Heating Strategy** 1:50 P01 XX-DR-M-0900 170062-BEC-XX-1:50 P01 Proposed Ventilation Strategy XX-DR-M-0901 170062-BEC-XX-**Proposed Incoming Services** 1:20 P01 ZZ-DR-Z-100 170062-BEC-XX-Elevations 1:100 P01 ZZ-DR-Z-500 170062 Birstall Community Hall Building Services 1 Performance Specification DISTRIBUTION LIST: NO. OF COPIES Nick Riozzi **Chesterton Smart Surveyors** 1 Amli Design David Hives Status of Drawing: D2 Mode of Issue: Ε **A1** – Approved/Construction Issue Status Key: SO - Initial Status or WIP **D1** – Suitable For Costing **B1** – Partial Sign Off **S1** – Suitable for Co-ordination D2 - Suitable For Tender **S2** – Suitable For Information D3 - Suitable For Contractor Design CR - As Built \$3 - Suitable for Review & Comment **S4** – Suitable For Approval

P – Paper

Mode of Issue:

Issued By:

E – Email

WJ

C – CD