Brompton-on-Swale Church of England Primary School, Brompton Park, Brompton on Swale, Richmond, DL10 7JW

Children and Young People's Services

Demolition of an existing pre-fabricated classroom unit (68m²) and the erection of a new double pre-fabricated classroom unit (170m²), a brick built electrical kiosk (32.4m²), creation of a tarmac footpath (110m²), 4no. air coil units, 6no wall mounted external lighting.

Stage 3 | P1

09th October 2019

E3015

18030

Design and Access Statement

Brompton-on-Swale Church of England Primary School

Project no:	18030
Document title:	Demolition of an existing pre-fabricated classroom unit (68m²) and the erection of a new double pre-fabricated classroom unit (170m²), a brick built electrical kiosk (32.4m²), creation of a tarmac footpath (110m²), 4no. air coil units, 6no wall mounted external lighting.
Document No.	Design and Access Statement
Revision:	P1
Date:	09 October 2019
Client name:	Investment and Delivery
Client no:	E3015
Project manager:	Daniel Storey
Author:	Lee Booth
File name:	S:\Property\18030 - Brompton on Swale CEPS, TCU replace\ADMIN\2.0 Authorities\Planning

Align Property Partners Limited
Morgan House, Mount View
Standard Way Industrial Estate
Northallerton, North Yorkshire DL6 2YD
United Kingdom
T +44 (0)1609 785700

Document history and status

Revision	Date	Description	By	Review	Approved
P1	08/07/2019	Planning – Design and Access Statement	LJB	RA	DJS

Limitations

This report is presented to North Yorkshire County Council in respect of the works at Brompton on Swale CE Primary School and may not be used or relied on by any other person. It may not be used by North Yorkshire County Council in relation to any other matters not covered specifically by the agreed scope of this report.

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Contents

1. Introduction

1.1 The Applicant

This planning support statement has been prepared by Align Property Partners to support a full planning application submitted on the behalf of North Yorkshire County Council, Children and Young People's Service.

1.2 Application Description

Demolition of an existing pre-fabricated classroom unit (68m²) and the erection of a new double pre-fabricated classroom unit (170m²), a brick built electrical kiosk (32.4m²), creation of a tarmac footpath (110m²), 4no. air coil units, 6no wall mounted external lighting.

1.3 Supporting Statement

This document provides background and technical information required to assist in determining the planning application. Its primary purpose is to set out the key planning considerations and how these are addressed in the design of the proposed development.

1.4 Supporting Documentation and Drawings

The following plans and documents are provided as part of the planning application:

Document No.	Rev	Title	Scale
18030/A/001	P1	Site Location Plan	1:1250
18030/A/010	P1	Existing and Proposed Site Plans	1:200
18030/A/030	P1	Proposed Compound & Contractor Access Plan	1:200
18030/A/220	P1	Proposed Plans & Elevations	1:100
18030/A/221	P1	Proposed Electrical Kiosk Plans & Elevations	1:20
18030/A/222	P1	Proposed Electrical Kiosk Sections & Roof Plan	1:20
Surveys			
18030	P1	Design and Access Statement	N/A

Table 1 Planning Application Drawings and Documents

2. Site Location and Description

2.1 Site Features and Constraints

Brompton-on-Swale Church of England Primary School is situated within the village of Brompton-on-Swale, sited in the district of Richmond. The school is accessed off Brompton Park which forms the schools main entrance. This can be identified on the existing site location plan (18030/A/001 Rev P1). This entrance to the school site provides a practical access route to be utilised during building work, sufficient traffic control measures will be implemented at this stage, to reduce conflict with school users.

The site is not located within a Conservation Area with no listed buildings found within the school boundary.

The site does not lie within an area with a history of flooding.

3. Detailed Description of Proposal

3.1 Reason for Development

Brompton-on-Swale Church of England Primary School has identified the need to replace an existing Temporary Classroom Unit with a new single storey, double pre-fabricated classroom unit.

The requirements for the project need each classroom to provide a minimum of 30 places with a cloakroom space as well as direct access to an external play area. The PCU will have toilet provision and an appropriate amount of storage. The planning application will also include the provision of a new Bitmac path around the perimeter of the new unit, a new low level retaining wall as necessary to enable the unit to be set into the ground and achieve level access from the existing path and to allow means of escape from the classrooms.

Also as part of the proposal the school require a power upgrade therefore a masonry 'kiosk' will be required to house the new incoming electrical supply.

A recent condition survey has found the existing TCU to be deteriorating and beyond economical repair. There will be no increase in pupil numbers and no further employment of staff will be made due to adequate numbers already at the school.

3.2 Scale

The new classroom teaching spaces will be a minimum of 60m² each and include a teacher's stores. In addition there will be lobby/cloakroom space and toilet accommodation. The new unit footprint will measure 9.8 x 18.1m.

The new PCU structure is a single storey prefabricated building to a standard design that is commonly seen at many schools. Furthermore, this affords a sympathetic context to the current building vernacular of the present on-site, and respectful of its building massing.

3.3 Appearance

The new prefabricated modular unit will be single storey with a low pitched roof (min pitch 1.5 degrees) to maintain the appearance, scale and proportion of the existing temporary classroom unit structure.

Colours of the new construction materials are shown on the proposed elevations refer to Drawing No 18030/A/220 Rev P1.

Modern traditional prefabricated modular units are typically steel framed modular construction. They are clad in composite insulated sheeting comprising plastic coated steel externally and vinyl faced plasterboard internally.

Windows are PVCu (white) and external doors are steel. Softwood internal doors will have a veneer finish.

External Lighting will illuminate the perimeter of the building, with a maximum lighting level of 10 Lux. Time periods for illumination will be controlled by time clocks as well as 'dusk till dawn' sensors ensuring optimal usage and energy efficiency and minimising nuisance to any neighbours. The existing timber temporary classroom unit is to be demolished as part of the works to enable the new PCU to be constructed.

3.4 Layout

The internal design of the new classroom unit provides a light airy and safe place for the children to learn in. Two number new classrooms will be a minimum of 60m², each will include a teachers store. In addition, there will be lobby/cloakroom space and toilet accommodation.

3.5 Use

The proposed building has been designed for the purpose of housing children to receive education. No change of use is proposed as the new classroom unit will full-fill the schools needs.

3.6 Amount

The proposed gross internal floor area of the new classroom unit is 170m², with a nominal height of 3.95m from external ground level.

The external floor area of the new classroom unit is 177m².

The external floor area for the new electrical kiosk is 5m².

3.7 Access

The alterations will be designed in accordance with the recommendations and guidance contained in the current 2004 Edition of Approved Document M of the Building Regulations 2000 and BS 8300:2009+A10:2010 Design of Buildings and their approaches to meet the needs of disabled people – code of practice.

The new unit will provide an improved level of accessibility with the proposed design. This will ensure that the new classrooms are accessible by all users to create an inclusive environment.

As well as improving entrance access the new classrooms will provide a more accessible 'inclusive' environment than the current facilities. The proposed scheme will not impact on the existing access arrangements. All doors within the context of the proposed buildings, will be wheelchair accessible and have effective clear opening widths.

Sufficient colour contrast along with illumination will be incorporated into the colour palate, ensuring hazards are visually apparent to users.

3.8 Landscaping

The site will require minimal soft/hard landscaping, as a compensatory measure with the impact due to the proposals. Refer to drawing 18030/A/010 Rev P1 for further details.

Also proposed is a new 1.8m wide Bitmac footpath around the perimeter of the new PCU.

3.9 Risk from Flooding

The site does not lie within an area with a history of flooding.

3.10 Environmental Considerations

Sustainability: Adopting NYCC's (SiDCAMP) Sustainability In Design Construction & Management of Property sustainable policy, the modular classroom will be fabricated off-site and fully compliant with current legislative documents, Part L 2014 approved document and School Premises Building Regulations 2006. At "end of life" due to the nature of modularisation & construction methodology, the unit can be up-cycled to accommodate future needs, beyond the design life expectancy.

Noise Impact: It is envisaged that the proposed siting of the building, will not warrant any specific attenuation measures. Noise from external plant, fan coil units (FCU's) [1] positioned on the west façade, will be sufficiently masked by existing boundary screening.

[1] A typical operating noise level generated from the external FCU's, do not exceed 55db at source (1metre).

Lighting Impact: External Lighting max 10 Lux levels and time periods for illumination will be controlled by time clocks as well as 'dusk till dawn' sensors ensuring optimal usage and energy efficiency.

(Refer to Appendices B & C for examples of External Lighting and Fan Coil Units)

4 Conclusion

In conclusion, this application seeks permission to demolish the existing temporary single classroom unit and construct a new single storey, double classroom prefabricated modular unit.

Being purpose built prefabricated units, the level of design input possible is minimal. However, the new prefabricated unit will be of similar appearance to the existing modular units, previously erected. The proposals will not have a greater impact on the visual amenity of the surrounding area and fits the context of the site and its use Purpose Group D1 Education-Primary Schools.

The proposed works will also include the provision of a new Bitmac path around the perimeter of the new unit, a new low level retaining wall as necessary to enable the unit to be set into the ground and achieve level access from the existing path and to allow means of escape from the classrooms.

The new modular unit will provide modern teaching environment and a much needed space for the needs of the existing pupils providing them with a more suitable means of access and teaching environment.

Appendix A – Site Photographs

1. Existing TCU to be demolished and location of new PCU.

Appendix B – Example of Light Fitting

Tra. Soc. Cus. Sec. Urb.

IK16 150J IP65 HT

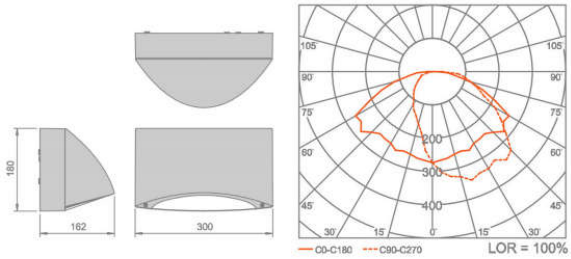
Zelos Wall

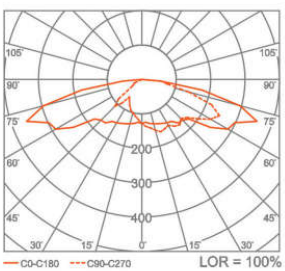
IK16
IP65

Elegant and versatile bulkhead for wall mounted perimeter applications.

- Attractive LED specific fitting with light output of over 70 lumens per watt.
- Minimal upward light.
- Die cast aluminium body finished in titanium polyester powder coat.
- Frosted or opal polycarbonate diffuser held against gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Optional photocell.
- Provision for conduit entry in back, gaskets provided.

MATT WHITE C46 | MATT BLACK C04 | TITANIUM C49 | MATT SILVER C48





Appendix C – Example of Fan Coil Unit

Mr.SLIM. **PKA-RP** Power Inverter Heat Pump

Making a World of Difference

PKA-RP Power Inverter Heat Pump

Wall Mounted System

Key Features

- Flat panel, compact indoor unit design
- Adjustable louvres for uniform air distribution
- Internal pipe connection to wall mounted unit for easy and neat installation

POWER INVERTER

PKA-RP - INDOOR UNITS		PKA-RP35HAL	PKA-RP50HAL	PKA-RP60KAL	PKA-RP71KAL	PKA-RP100KAL	PKA-RP100KAL
CAPACITY (kW)	Heating (nominal)	4.1 (1.6-5.2)	5.0 (2.5-7.3)	7.0 (2.8-8.2)	8.0 (3.5-10.2)	11.2 (4.5-14.0)	11.2 (4.5-14.0)
	Cooling (nominal)	3.6 (1.6-4.5)	4.6 (2.3-5.6)	6.1 (2.7-6.7)	7.1 (3.3-8.1)	10.0 (4.9-11.4)	10.0 (4.9-11.4)
	Heating (UK)	3.5 (1.35-4.4)	4.25 (2.15-6.2)	5.95 (2.4-6.95)	6.8 (3.0-8.65)	9.5 (3.85-11.9)	9.5 (3.85-11.9)
	Cooling (UK)	3.3 (1.45-4.15)	4.25 (2.1-5.15)	5.5 (2.5-6.15)	6.55 (3.05-7.45)	9.2 (4.5-10.5)	9.2 (4.5-10.5)
SHF (nominal & UK)		0.81	0.72	0.86	0.78	0.73	0.73
COP / EER (nominal)		3.83 / 3.83	3.33 / 3.26	3.57 / 3.81	3.65 / 3.94	3.68 / 3.77	3.68 / 3.77
SCOP / SEER (BSEN14825)		3.9 / 5.7	4.0 / 5.3	4.2 / 6.3	4.3 / 6.5	4.0 / 6.1	4.0 / 6.0
ErP ENERGY EFFICIENCY CLASS	Heating/Cooling	A / A+	A+ / A	A+ / A++	A+ / A++	A+ / A++	A+ / A+
AIRFLOW (m³/min)	Lo-Mi-Hi	9-10.5-12	9-10.5-12	18-20-22	18-20-22	20-23-26	20-23-26
PIPE SIZE mm (in)	Gas	12.7 (1/2")	12.7 (1/2")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
	Liquid	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
SOUND PRESSURE LEVEL (dBA)		36-40-43	36-40-43	39-42-45	39-42-45	41-45-49	41-45-49
SOUND POWER LEVEL (dBA)		60	60	64	64	65	65
DIMENSIONS (mm)	Width x Depth x Height	898 x 249 x 295	898 x 249 x 295	1170 x 295 x 365	1170 x 295 x 365	1170 x 295 x 365	1170 x 295 x 365
WEIGHT (kg)		13	13	21	21	21	21
ELECTRICAL SUPPLY		Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit
FUSE RATING (BS88) - HRC (A)		6	6	6	6	6	6
INTERCONNECTING CABLE No. Cores		4	4	4	4	4	4

PUHZ-ZRP - OUTDOOR UNITS		PUHZ-ZRP35VKA	PUHZ-ZRP50VKA	PUHZ-ZRP60VHA	PUHZ-ZRP71VHA	PUHZ-ZRP100VKA	PUHZ-ZRP100YKA (3) Three Phase
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	46 / 44	46 / 44	48 / 47	48 / 47	51 / 49	51 / 49
SOUND POWER LEVEL (dBA)	Cooling	65	65	67	67	69	69
WEIGHT (kg)		43	46	67	67	116	124
DIMENSIONS (mm)	Width x Depth x Height	809 x 300 x 630	809 x 300 x 630	950 x 330 + 30 x 943	950 x 330 + 30 x 943	1050 x 330 + 30 x 1338	1050 x 330 + 30 x 1338
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	380-415v,50Hz
PHASE		Single	Single	Single	Single	Single	Three
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal)	1.07 / 0.94	1.50 / 1.41	1.96 / 1.60	2.19 / 1.80	3.04 / 2.65	3.04 / 2.65
	Heating/Cooling (UK)	0.84 / 0.91	1.25 / 1.28	1.42 / 1.67	1.60 / 1.86	2.36 / 2.58	2.36 / 2.58
STARTING CURRENT (A)		4.0	5.0	5.0	6.0	12.0	4.0
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	4.22 / 3.94 [13.4]	7.16 / 6.59 [13.4]	9.23 / 8.11 [19.4]	8.75 / 7.79 [19.4]	11.46 / 11.44 [27.1]32	4.82 / 4.41 [8.6
FUSE RATING (BS88) - HRC (A)		16	16	25	25	3	16
MAINS CABLE No. Cores		3	3	3	3	75	5
MAX PIPE LENGTH (m)		50	50	50	50	30	75
MAX HEIGHT DIFFERENCE (m)		30	30	30	30	5.0	30
CHARGE R410A (kg) - 30m		2.2	2.4	3.5	3.5		5.0