(1) THE MAYOR AND BURGESSES OF THELONDON BOROUGH OF RICHMOND UPON THAMES

-and-

(2) ST JAMES GROUP LIMITED

DEED OF AGREEMENT

made under Section 106 of the
Town & Country Planning Act 1990
relating to the former GPO Sorting Office
London Road Twickenham TW1 1EE

Head of Merton and Richmond upon
Thames London Boroughs Shared Legal Service
Gifford House
67c St Helier Avenue
Morden SM4 6HY

Ref CS LEG GRC 642-1101

THIS DEED OF AGREEMENT is made the 4 day of MWW two thousand and fourteen

BETWEEN:

- (1) THE MAYOR AND BURGESSES OF THE LONDON BOROUGH OF RICHMOND UPON THAMES of Civic Centre 44 York Street Twickenham TW1 3BZ ("the Council"); and
- (2) ST JAMES GROUP LIMITED (company registration number 03190056): whose registered office is situate at Berkeley House 19 Portsmouth Road Cobham Surrey KT11 1JG ("the Owner")

WHEREAS:

- (1) The Council is the local planning authority for its administrative area within which the Property is situate for the purposes of the 1990 Act and for the purpose of Section 106(a) of the 1990 Act is the local planning authority by whom the planning obligations contained within this Deed are enforceable
- (2) The Owner is registered at the Land Registry with title absolute as the proprietor of the freehold interest in the Property
- Application and grant planning authority has resolved to approve the Planning Application and grant planning permission for the Development subject to the prior completion of a deed of planning obligation under section 106 of the 1990 Act to secure the provision of a Community Building financial contributions towards affordable housing, education, health, public realm and transport, the provision of car club facilities and a restriction on availability of on-street parking in the Controlled Parking Zone within which the Property is located
- (4) Policies DM TP2 and DM TP8 of the LDF Development Management Plan 2011 provide that the Council shall only approve new development where the transport infrastructure can accommodate it or be adapted to it and new development should be acceptable in terms of traffic generation and traffic impact in the road
- (5) Policy CP17 of the LDF Core Strategy 2009 provides that health and wellbeing in the Council's area is important and all new developments should encourage and promote healthier communities and places
- (6) Policy CP16 of the LDF Core Strategy 2009 provides that new development shall be expected to provide for additional infrastructure and community needs generated by the development.
- (7) Policy CP18 of the LDF Core Strategy 2009 provides that the Council shall ensure the provision of schools, pre-schools and other educational facilities meet the need for additional educational resources any new development may generate and developers will have to take into account the potential need to contribute to the provision of primary and secondary school places in the borough
- (8) Policy CP15 of the LDF Core Strategy 2009 provides that the Council will ensure that affordable housing is brought forward through development of new units on site and/or some form of contribution towards affordable housing off-site:

AGREED TERMS

1. Interpretation

In this Deed the following words and expressions shall have the following meanings:-

"the 1990 Act"

the Town & Country Planning Act 1990

"Accredited Car Club Provider"

means anyorganisation accredited in the United Kingdom by Car Plus which provides cars for the use of members of a Car Club in consideration of payment therefor

"Affordable Housing"

means housing irrespective of tenure or ownership (provided through a Registered Provider) that shall be available to people who are on a register maintained by the Council and Registered Providers who have properties in the Council's administrative area and whose incomes comply with the requirements set out in the Intermediate Housing Policy Statement of the Council (June 2012) being insufficient to enable them to afford adequate housing locally on the housing market

"Affordable Housing Contribution"

the sum of one million six hundred and fifty thousand pounds (£1,650,000)

"Affordable Housing Units"

means either 11 or 16 Residential Units forming part of the Development (as shall be determined pursuant to paragraph 2 of Schedule 1) the use of which shall be restricted to Affordable Housing in accordance with the provisions of this Deed (as shown on Plan 1 in the event that there are 16 Affordable Housing Units or Plan 2 in the event that there are 11 Affordable Housing Units)

"Car Club"

means a local club operated and managed by an Accredited Car Club Provider which residents of the Development and members of the public may join and in which cars owned by the Accredited Car Club Provider are available to hire to members on either a commercial or part subsidised basis

"Car Plus"

the national charity promoting responsible car use and which operates an accredited scheme for Car Clubs

"Collateral Warranty"

a deed of warranty to be given by the Contractor (if any) and the Professional Team in a form approved by the Council (acting reasonably).

"Contractor"

any building contractor appointed or to be appointed to act and employed in such capacity by the Owner under the terms of a building contract for the construction of the Community Building.

"Commercial Units"

the two restaurants forming part of the Development

"Community Building"

the Community Building forming part of the Development and as identified cross hatched red on Plan 3 and more particularly in drawing numbers 12:035-DP-10.F; 12:035-DP-11.E, 12:035-DP-12.D; 12:035-DP-20.E and 12:035-DP-30.F forming part of the Planning Application

that part of the Property on which the Community Building is to be constructed

the specification for the construction of the Community Building attached to this agreement at Annexure 1 (subject to variation in accordance with the provisions of Schedule 3) for a total cost of up to £4,501,515 as set out in the cost plan attached to this agreement at Annexure 1

means 1 March 2016

the construction of the Community Building in accordance with the Community Building Specification

means the Consumer Prices Index as published from time to time by the Office for National Statistics (or such other index replacing it or if none such other index as may be agreed in writing between the Parties)

the Council's Development Control Manager for the time being or such other person as may be appointed from time to time to carry out that function

means a Deed of Release substantially in the form attached to this agreement at Annexure 2

means the period of 12 months from Practical Completion

the development described in the Planning Permission

the Indexed sum of five hundred and nine thousand nine hundred and forty-six pounds (£509,946)

means days when there are activities at the Rugby Football Union's Stadium on which more than 15,000 spectators are anticipated to be in attendance

means force majeure fire lightning storm explosion tempest or other extreme weather conditions overflowing of drainage systems earthquake aircraft and aerial devices dropped therefrom war riot civil commotion local combination of workman strike or manufacture or transportation of any goods or materials required for the relevant works delays in receipt of any relevant consents or approvals or in the unforeseen exceptional site conditions terrorist

"Community Building Site"

"Community Building Specification"

"Community Building Target Date"
"Community Building Works"

"CPI Index"

"the DCM"

"Deed of Release"

"Defects Liability Period"

"the Development"

"Education Contribution"

"Event Days"

"Event of Delay"

"Health Contribution" "Heatham House Land" "IEA" "Indexed" "Late Events" "LDF" "Local Youth Facilities" "Local Youth Facilities Contribution" "Long Leasehold Interest" "Market Units"

or protest activity decree of government archaeological discoveries or any other cause or circumstances outside the reasonable control of the Owner and not due to the negligence or default of the Owner

the Indexed sum of thirty thousand four hundred and ninety-nine pounds (£30,499)

means land known as Heatham House, Whitton Road, Twickenham TW1 1BH and registered at HM Land Registry with title number MX150195

an independent employer's agent experienced in construction projects similar to the construction of the Community Building.

whereby the relevant contribution is multiplied by the fraction. A divided by B where B represents the value of the CPI Index as at the date of grant of the Planning Permission and A represents the value of the CPI Index as at the date of payment of the relevant contribution to the Council

a total number of 12 events per annum to be held in the Community Building which shall be permitted to run outside of the Permitted Hours provided that the Council gives prior written notice of each such event to the Owner within 2 working days of the Council applying for a licence to hold such an event (if applicable) and further notice to the Owner at least 5 working days prior to each event taking place.

the adopted policies of the Richmond upon Thames Local Development Framework Core Strategy 2009 and Development Management Plan 2011

the works and facilities referred to in paragraph 18 of Schedule 1

the Indexed sum of ninety-three thousand three hundred and sixty-three pounds (£93,363)

means a grant of a lease of at least 150 years at a peppercorn rent together with any ancillary land and appurtenant rights at a nominal rent

residential units forming part of the Development which are not Affordable Housing

the carrying out in relation to the Development of a material operation as defined in Section 56(4) of the 1990 Act but disregarding for the purposes of this deed the following operations: works of demolition; works of site clearance; ground investigations; site survey works; laying

"Material Start"

of services and service media; construction of temporary accesses; archaeological, investigation; landscaping works off the public highway; noise attenuation works; decontamination; and the erection of fences and hoardings

means that mixed use building within the Development as shown edged brown on Plan 7

the Indexed sum of fifty three thousand three hundred and ten pounds (£53,310)

means in relation to the Development the legal completion of the sale of the Affordable Housing Units and the Market Units (and for the avoidance of doubt the expression shall not include occupation for the purposes of construction or fitting out or for marketing or security purposes) and "Occupied" and "Occupy" shall be construed accordingly

"Owner's Site Rules and Health and Safety Policies"

means the rules prepared by the Owner for the conduct of construction work on land owned by the Owner as may be revised from time to time

"Permitted Hours"

"Mixed Use Building"

"Monitoring Fee"

"Occupation"

means Monday to Thursday 7am - 11.30pm, Friday and Saturday 7am - 12am and Sunday 9am - 11pm in respect of any cinema viewings but in all other cases shall mean Monday to Friday 7am - 11pm, Saturday 8am - 11pm and Sunday 9am - 10pm

"Permitted Use"

use for any or all of the followings purposes:

- (a) Nursery / Playgroups;
- (b) Cinema / Theatre / Concerts / Spoken word or dance;
- (c) Corporate Entertainment;
- (d) Weddings;
- (e) Museum:
- (f) Public Displays, Exhibitions and Meetings,
- (g) Community group meetings, activities and conferences;
- (h) Skills training or educational classes;
- (i) Social functions;
- (i) Offices

- (k) Restaurant /:cafe
- (I) Cultural/sport/leisure/wellbeing activities;
- (m) Such other uses or activities for the purpose of the general amenity for the local community as may be agreed between the Owner and the Council.

means the plan annexed hereto and marked Plan 1 with drawing number FB_11 Revision P2

means the plan annexed hereto and marked Plan 2 with drawing number FB_11 Revision P1

means the plan annexed hereto and marked Plan 3 with reference CB and dated 26/02/14

means the plan annexed hereto and marked Plan 4 with reference EA and dated 26/02/14

means the plan annexed hereto and marked Plan 5 with reference 1305/009

means the plan annexed hereto and marked Plan 6 with reference PA and dated 28/02/14

means the plan annexed hereto and marked Plan 7 with reference MU and dated 27/02/14

means the plan annexed hereto and marked Plan 8 with reference LG and dated 03/03/14

means the plan annexed hereto and marked Plan 9 with reference RW and dated 18/12/13

means the plan annexed hereto and marked Plan 10 with reference 4616/CIVIL/60 Revision 0

means the plan annexed hereto and marked Plan 11 with reference EL and dated 7/11/13

means the plan annexed hereto and marked Plan 12 with reference AS and dated 18/12/13

a planning application received by the Council on 19th November 2012 bearing reference number 12/3650/FUL for the demolition of existing buildings and redevelopment of the Property to provide a mixed use development comprising of a 3 to 5 storey building accommodating 82 residential units, 2 restaurant units (A3 Use Class) with basement car and cycle parking, associated plant equipment and courtyard area; Erection of a 2 to 5 storey community building with associated outdoor space; 28 houses with associated car parking and gardens; New public space, internal

"Plan 1"

"Plan 2"

"Plan 3"

"Plán 4"

"Plan 5"

"Plan 6"

"Plan 7"

"Plan:8"

"Plan 9"

"Plan 10"

"Plan 11"

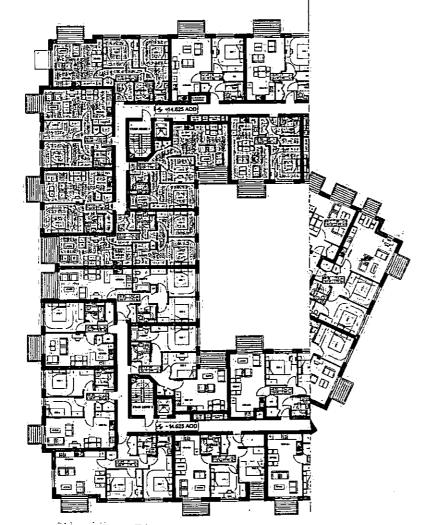
"Plan 12"

"the Planning Application"

4 -73 ACD

Affordable Units.

Lower Ground Floor Plan



First Floor Plan

Planning

St. James Group Ltd

Designed for life

JOHN THOMPSON & PARTNERS



The Former Royal Mail Sorting Office, Twickenham

Indicative Affordable Housing Plan

Scale @ A1 1:100 Job Rat. 00545 ina No. FB_11



Affordable Units



Planning

St. James: Group Ltd.

Designed for life

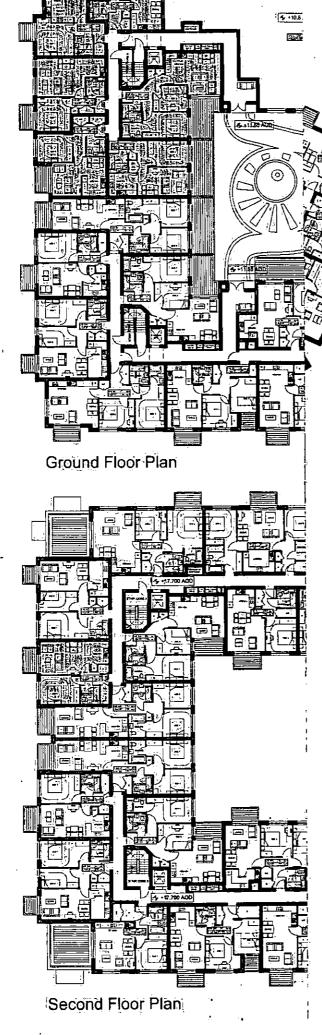
JOHN THOMPSON & PARTNERS

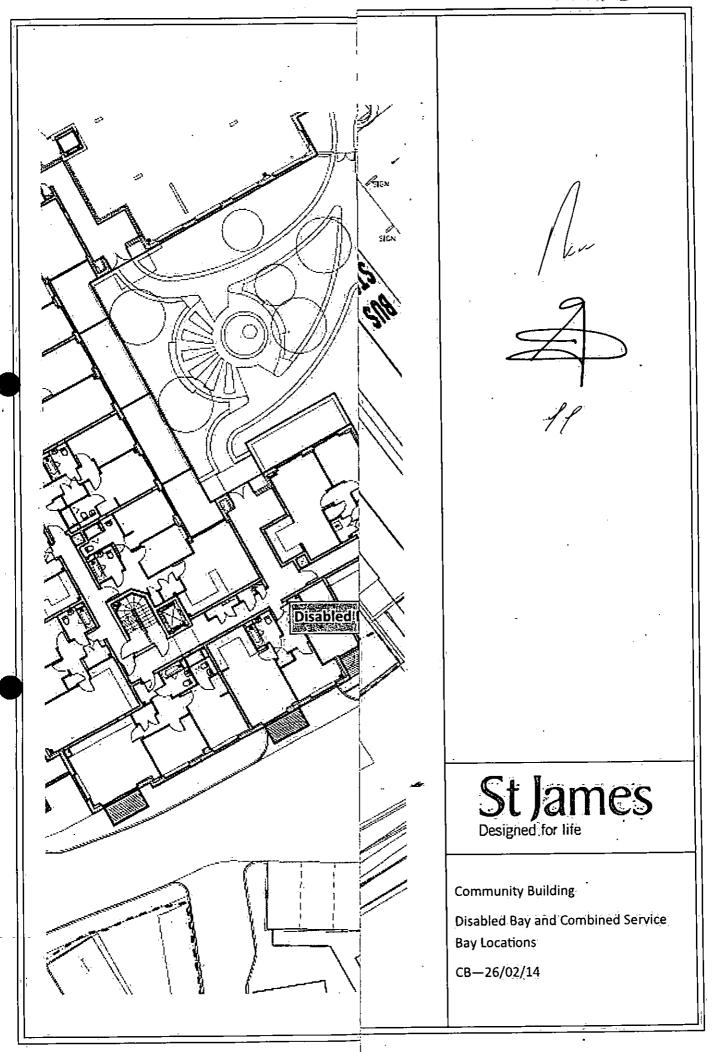


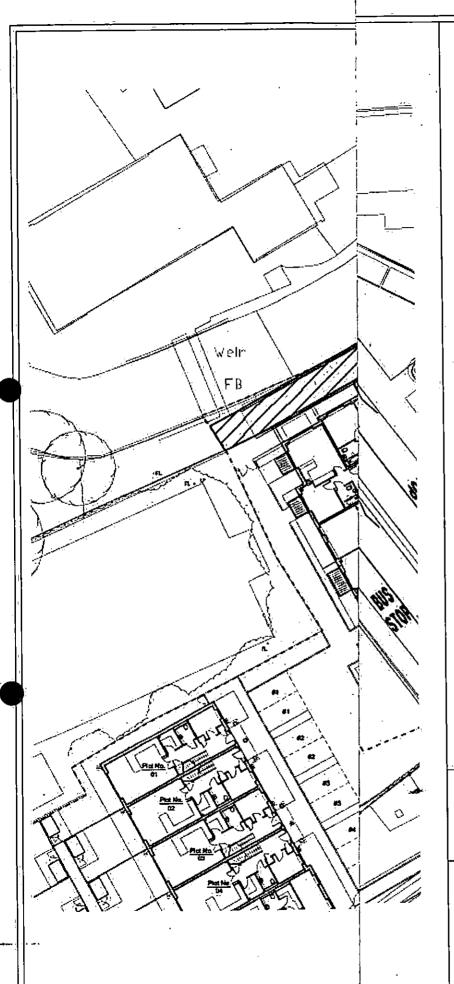
The Former Royal Mail Sorting Office, Twickenham

Indicative Affordable Housing Plan

9cale @ A151:100 Job Parl. 00545 Drawing No. FB_11









St James Designed for life

Piazza Vehicular Access for EA and Council Service Vehicles

EA-26/2/14

Educational Signage







Amenity Space Provision



PUBLIC OPEN SPACE = 1183m2



including 819m2 of play provision



SEMI-PRIVATE OPEN SPACE = 445m2



including 40m2 of play provision,



PRIVATE AMENITY SPACE = 997m2



(including all gardens, balconies and





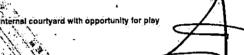




Educational signage located on the access ramp adjacent to the river, and in the Plazza space on London Road would provide informative text and images on

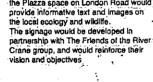


Public piazza with water jet play feature



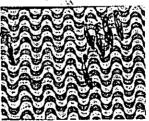


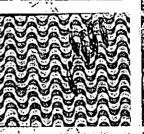




Shared Surface

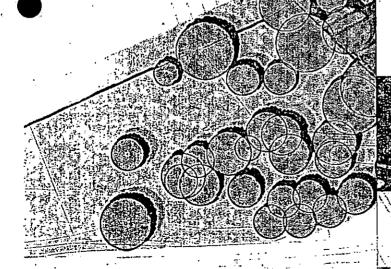






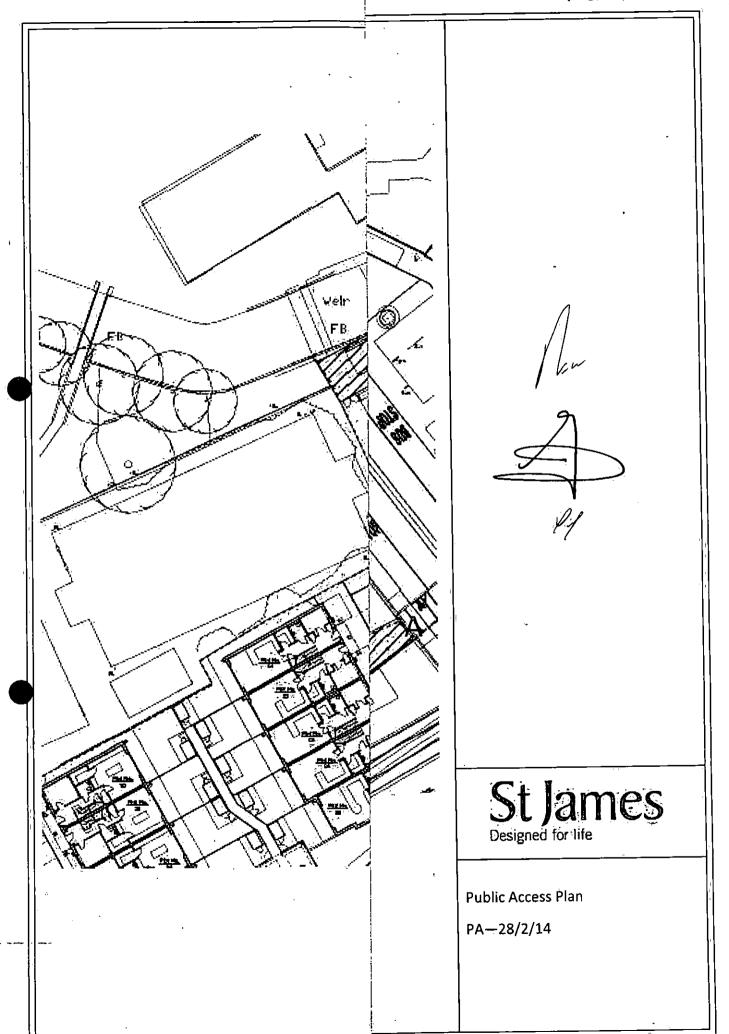
Surfacing patterns adding play value and alding traffic calming

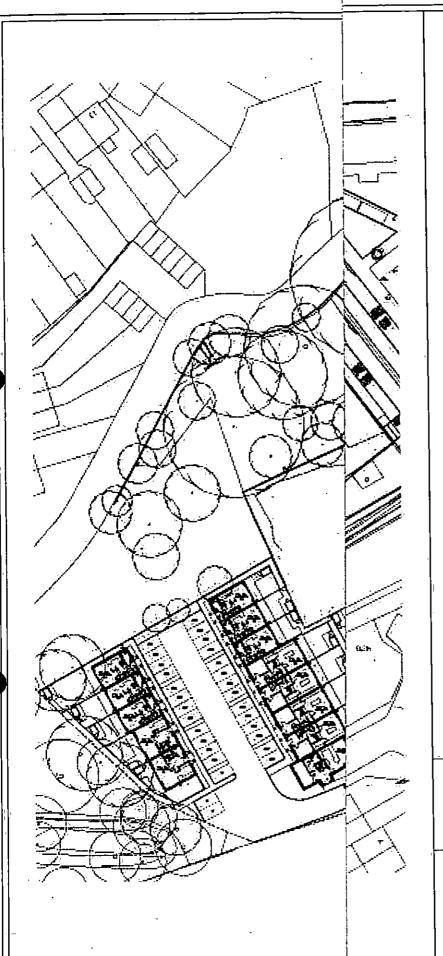
Road articulated with curves and plant bads to provide pinch points for traffic



ùrdöch

wickenham Sorting Office Amenity Space Plan







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Mixed Use Building

MU-27/02/14

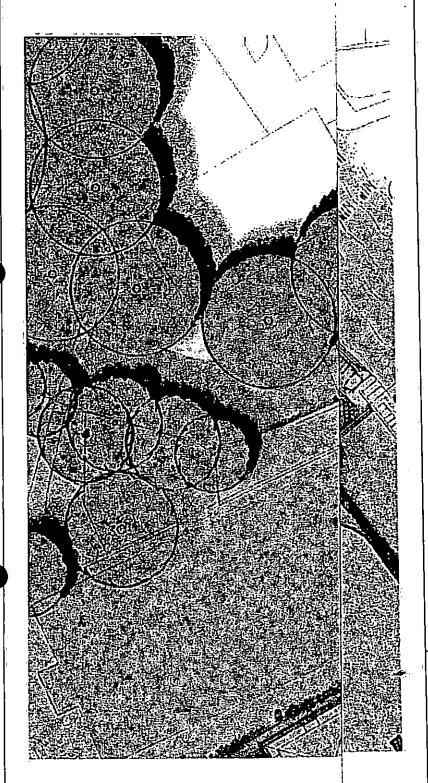
Welm

X Y Lockable Gates

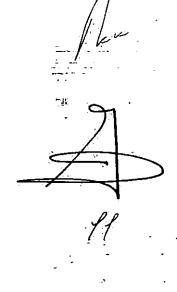
St James Designed for life

Lockable Gate Locations

LG-03/03/14

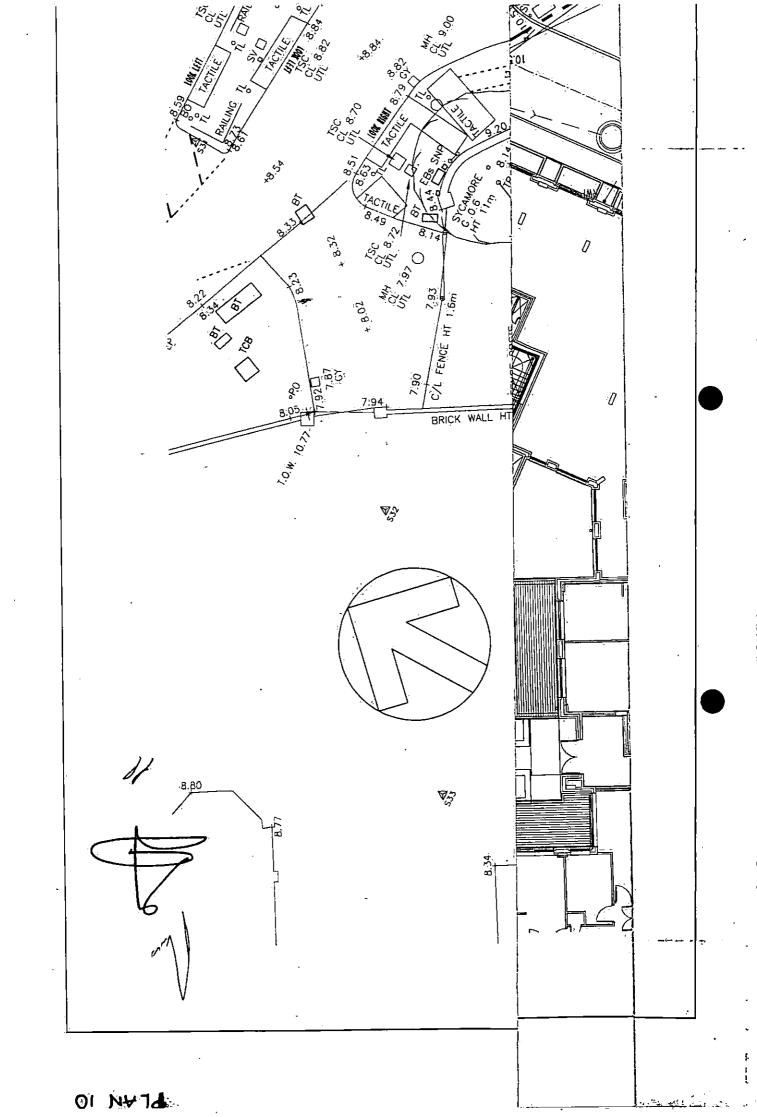


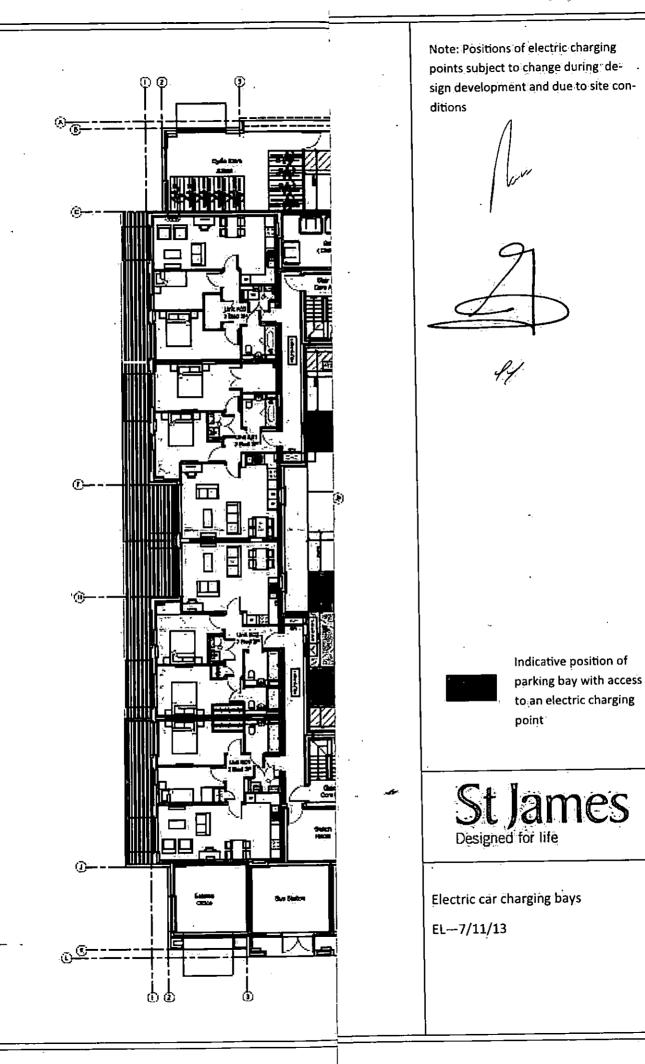
CCTV Positions at X and Y

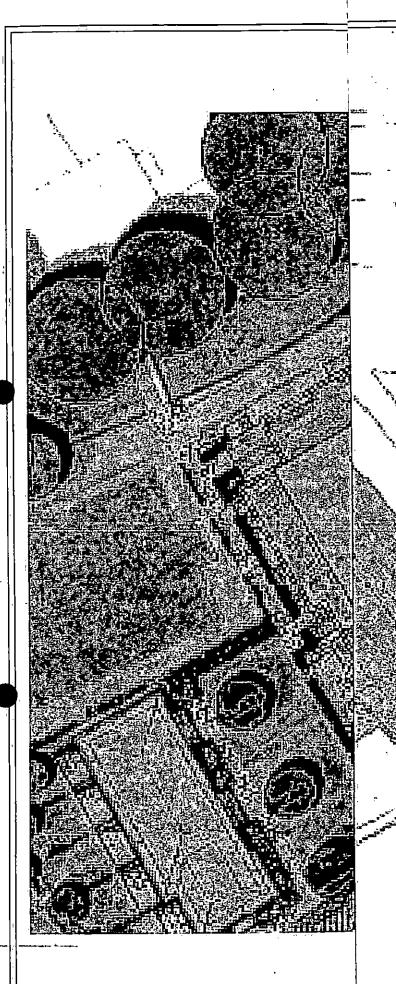


St James Designed for life

River Walkway CCTV RW—18/12/13









St James Designed for life

Public Art-Strategy

AS-18/12/13

access road; landscaping and associated infrastructure and utilities.

a planning permission to be granted by the Council pursuant to the Planning Application

a road shown coloured turquoise on Plan 5 (excluding the public plazza) that is fully closed to traffic with the exception of vehicles belonging to residents to the Residential Units and emergency vehicles which shall be allowed full access to the entire road but are required to drive vehicles at speeds not exceeding 5mph.

means practical completion of the Community Building certified in accordance with Paragraph 3 of Schedule 3 and Practically Complete and Practically Complete and Practically Completed shall be construed accordingly

the professional team appointed to have a design function in respect of the construction of the Community Building

land known as the former GPO Sorting Office London Road Twickenham TW1 1EE and registered at the Land Registry with title numbers MX318245, MX318243, MX233537, MX262384, TGL372548, TGL97510

the indexed sum of one hundred and ninety-four thousand three hundred and thirteen pounds (£194,313)

the sum of £933,328 to be paid by the Greater London Authority to the Owner or the Registered Provider for the purpose of subsidizing and increasing the volume of Affordable Housing in the Development.

means a registered provider as defined in Part 1 of the Housing Act 1996 who is registered as a registered provider with the Tenants Services Authority pursuant to the Housing and Regeneration Act 2008 and complies with the Council's Affordable Housing Supplementary Planning Document Consultation Draft March 2012

the Affordable Housing Units and the Market Units together

mean the restrictive covenants imposed in a transfer dated 15 June 1984 and made between (1) The Mayor and Burgesses of the London Borough of Richmond Upon Thames and (2) the Post Office in respect of the freehold property known as land lying to the north west of Brewery Lane, Twickenham and referred to in Entry number 5 of the Charges Register of Title

"the Planning Permission"

"Play Street"

"Practical Completion"

"Professional Team"

"the Property"

"the Public Realm Contribution"

"Recycled Capital Grant"

"Registered Provider"

"Residential Units"

"Restrictive Covenants"

Number MX262384 as at 18 October 2013 and timed at 17:55:43

"Site Management Plan"

the plan to be approved pursuant to paragraph 37 of Schedule 1

"Third Party Rights"

the third party rights arising under any building contract and/or the appointments of the Professional Team which are to be conferred on the Council pursuant to the Contract (Rights of Third Parties) Act 1999

"Third Party Rights Provisions"

the relevant terms set out in any building contract in respect of the Community Building and/or the appointments of the Professional Team

"Working Day"

any day when the United Kingdom clearing banks are open for business in the City of London

2. Legal Effect

- 2.1, This Deed is made pursuant to Section 106 of the 1990 Act and the obligations contained in this Deed are planning obligations for the purposes of that section insofar as they fall within the terms of Section 106 of the 1990 Act and receipt of a copy of this Deed pursuant to subsection 106(10) of the 1990 Act is hereby acknowledged by the Council
- 2:2. No person or company shall be liable for any breach of this Deed after he or its shall. have parted with all interest in the Property or the part in respect of which such breach occurs but without prejudice to liability for any subsisting breach of covenant prior to parting with such interest
- 2.3. This Deed shall not take effect until the following conditions precedent have been fulfilled:
 - 2.3.1. the Permission has been granted for the Development;
 - 2.3.2. the Permission has been implemented by the carrying out of a Material Start
- 2.4. If the Permission expires within the meaning of Sections 91 to 93 of the 1990 Act or is revoked or otherwise withdrawn or modified by any statutory procedure without the consent of the Owner this Deed shall cease to have effect
- 2.5. Nothing in this Deed shall be construed as prohibiting or limiting any right to develop any part of the Site in accordance with a planning permission (other than the Permission) granted by the Council or by the Secretary of State on appeal or reference to him after the date of this Deed
- 2:6 Nothing in this Deed shall derogate from any of the rights powers and duties of the Council pursuant to any of its statutory functions or in any capacity

3. **Exclusions of Liability**

The obligations under this Deed shall not be binding upon or enforceable against:

- the purchasers mortgagees lessees and occupiers of individual Market Units and 3.1. Affordable Housing Units
- 3.2. any mortgagee of a Registered Provider or any receiver appointed by such mortgagee or any person deriving title through any such mortgagee or receiver or

- 3:3. any person to whom a Registered Provider grants a shared ownership lease or any successor in title to any such person or
- 3.4. a tenant exercising any right to acquire under a purchase grant scheme or right to buy or similar right conferred by statute or any successor in title to any such person or
- 3.5. any mortgagee of any tenant or person to whom a Registered Provider grants a Shared Ownership Lease or any receiver appointed by such mortgagee or any person deriving title through any such mortgagee or receiver or
- 3.6. any person by whom by virtue of the terms of a Shared Ownership Lease of an Affordable Housing Unit is granted or has transferred to such a person either a reversionary interest or a new Lease in such Affordable Housing Unit pursuant to the terms of a Shared Ownership Lease or
- 3.7. any Registered Provider (save in relation to obligations, undertakings and liabilities in respect of the Affordable Housing Units) or
- 3.8. any statutory undertaker or other person who acquires any part of the Property or interest therein for the purpose of the supply of electricity, gas, water, drainage, telecommunication services or public transport services or

4. Owner's Covenants

The Owner hereby covenants with the Council:

- 4.1. to perform the obligations set out in Schedule 1 and the Owner's obligations set out in Schedule 3;
- 4.2. to give notice in writing to the DCM of its intention to commence the implementation of the Development at least fourteen days before a Material Start
- 4.3: to give notice in writing to the Council of its intention to commence the construction of the Community Building at least fourteen days before commencing the construction the Community Building

5. Council's Covenants

The Council covenants with the Owner:

- 5.1. to use the Affordable Housing Contribution for the provision of Affordable Housing and/or for the provision of facilities that are of benefit to the local community
- 5.2. to use the Education Contribution for the provision of education
- 5.3 to use the Health Contribution for the provision of health care
- 5.4. to use the Public Realm Contribution for the purposes of the provision Public Realm facilities
- 5.5. to use the Local Youth Facilities Contribution for the provision of Local Youth Facilities and/or other such works and facilities which are of benefit to the local youth community
- 5.6. to use the Monitoring Fee for the monitoring of the obligations on the Owner's part contained in this Deed
- 5:7. Within 10 Working Days of Practical Completion of the Community Building to execute and deliver to the Owner the Deed of Release relating to the release of Restrictive Covenants
- 5.8. In consideration of the Owner's covenants set out in clause 4 of this Deed, the Council (as adjoining landowner with the benefit of the Restrictive Covenants) covenants not to enforce or seek to enforce any of the Restrictive Covenants that

may prevent or hinder the Development and the Council hereby indemnifies the Owner against any such enforcement action taken by the Council.

5.9. to perform the Council's obligations set out in Schedule 1 and Schedule 3

6. Miscellaneous Agreements and Declarations

It is hereby agreed and declared:-

- 6.1. Nothing contained in this Deed constitutes planning permission
- 6.2. Nothing contained or implied in this Deed shall prejudice or affect the rights powers duties and obligations of the Council in the exercise of its functions as local authority and its rights powers duties and obligations under all public and private statutes byelaws/and regulations may be as fully and effectually exercised as if the Council were not a party to this Deed.
- 6:3. On the written request of the Owner at any time each or all of the Owner's obligations have been performed satisfied or otherwise discharged the Council shall without delay issue written confirmation to the Owner of such performance satisfaction or discharge (as appropriate)
- 6.4. Any approval consent direction authority agreement or action required to be given by the Council under this deed shall not be unreasonably withheld or delayed
- 6.5. If any provision in this Deed shall be held to be void invalid illegal or unenforceable or if voidable is avoided this shall not affect the operation validity legality and enforceability of any other provision of this Deed provided severance therefrom is possible
- 6.6. Reference to the masculine feminine and neuter genders shall include the other genders and reference to the singular shall include the plural and vice versa
- 6.7. A reference to a clause is a reference to a clause contained in this Deed
- 6.8. The expressions "the Council" and "the Owner" shall include their respective successors in title; and assignees

7. Local Land Charges Provisions

- 7.1. This Deed is a Local Land Charge and shall be registered by the Council in the Council's Register of Local Land Charges immediately on completion thereof
- 7.2. The Council shall, upon written request by the Owner effect a cancellation of any entry made in the Local Land Charges Register in regard to this Deed forthwith after the obligations of the Owner have been wholly performed or discharged

8. Reference to statutes and statutory instruments.

References in this Deed to any statutes or statutory instruments shall include and refer to any statute or statutory instrument amending consolidating or replacing them respectively from time to time and for the time being in force

9. Variations

- 9.1. The covenants undertakings and restrictions contained in this Deed shall only be capable of being varied by a memorandum to be endorsed upon or annexed to this Deed by or on behalf of the relevant parties hereto or by a subsequent deed of variation
- 9.2. This Deed shall continue to be valid and enforceable following an amendment or variation to the Planning Permission achieved through the submission of a planning application pursuant to Section 73 of the 1990 Act as if this Deed had been completed pursuant to such an application

10. Dispute Provisions

- 10:1. In the event of any dispute arising in respect of any matter contained in this Deed save as to matters regarding its legal construction then unless the relevant part of the Deed indicates to the contrary the same shall be referred to an expert being an independent person to be agreed upon between the parties hereto or at the request and option of either of them to be nominated at their joint expense by or on behalf of the President for the time being of the Royal Institution of Chartered Surveyors and such expert shall act as an expert and not as an arbitrator and whose decision shall be final and binding on the parties hereto and whose costs shall be in his award
- The expert shall be appointed subject to an express requirement that he reaches his decision and communicates it to the parties within the minimum practicable timescale allowing for the nature and complexity of the dispute and in any event not more than twenty eight (28) days from the date of his appointment to act
- 10:3. The expert shall be required to give notice to each of the said parties inviting each of them to submit to him within ten (10) working days written submissions and supporting material and shall afford to each of the said parties an opportunity to make counter submissions within a further five (5) working days in respect of any such submission and material and his decision shall be given in writing within twenty eight (28) days of this appointment with reasons and in the absence of manifest error shall be binding on the said parties.
- 10.4. The costs of any reference of any dispute shall be paid jointly by the Owner and the Council subject always to any determination in the independent person's award.

11. Jurisdiction

The construction validity and performance of this Deed shall be governed by English law

12. Effect of Revocation of Planning Permission

In the event of the Planning Permission being revoked by the Council or any other authority having powers in relation to planning matters or otherwise withdrawn or modified by any statutory procedure without the consent of the Owner or their successors in title the obligation of the Owner under this Deed shall thereupon cease absolutely and in that event the Council shall repay to the Owner such moneys as have been paid to it pursuant to the obligations contained within this Deed to the extent that they remain unspent (save in respect of any monies paid in respect of the Council's legalifees which shall be not be repaid to the Owner in any circumstances).

13. Waivers

No waiver (whether express or implied) by the Council of any breach or default by the Owner in performing or observing any of the terms and conditions of this Deed shall constitute a continuing waiver and no such waiver shall prevent the Council from enforcing any of the said terms or conditions or from acting upon any subsequent breach or default in respect thereto by the Owner

14. Contracts (Rights of Third Parties) Act 1999

The provisions of the Contracts (Rights of Third Parties) Act 1999 shall not apply to this Deed and no person who is not a party to this Deed is to have the benefit of or is capable of enforcing any term in this Deed and no party is to have any rights to enforce this Deed other than those falling within the definitions of the Council and the Owner

15. Release

This Deed shall be deemed to have been revoked and be of no effect (without any further act or deed on the part of either the Council or the Owner) if a Material Start has not taken place within 3 years of the date of this Deed or the Planning Permission having been granted

shall be varied or revoked other than at the request of the Owner or the Planning Permission having been granted is quashed following a successful legal challenge and in any such case any sums paid by the Owner under this Deed shall be repaid to the Owner by the Council forthwith (other than the Council's legal costs in the preparation of this agreement provided that any revocation has not been caused by the actions of the Council) together with interest at the Base Rate of Barclays Bank plc from the date such sums were received by the Council until the date of repayment

16. VAT clauses

- 16.1. All consideration given in accordance with the terms of this Deed shall be exclusive of any VAT properly payable in respect thereof
- 16.2: If at any time VAT is or becomes chargeable in respect of any supply made in accordance with the terms of this Deed then to the extent that VAT had not previously been charged in respect of that supply the person making the supply shall have the right to issue a VAT invoice to the person to whom the supply was made and the VAT shall be paid accordingly

17. Interest on Late Payment

If any of the contributions payable by the Owner under this Deed are not paid to the Council within timescales stipulated in Part II and Part V111 of Schedule 1 then interest shall be paid on such contribution at the rate of 4% above Barclays Bank base rate from time to time in force from the date that the contribution became due to the date of actual payment

18. Community Infrastructure Levy Regulations 2010

The terms of this deed comply in all respects with the requirements of Regulation 122 of the Community Infrastructure Levy Regulations 2010 in that the obligations contained herein are necessary to make the Development acceptable in planning terms, directly relate to the Development and fairly and reasonably related in scale and kind to the Development

19. Notices

- 19.1. Any notice given under this contract must be inswriting and signed by or on behalf of the party giving it.
- 19.2. Any notice or document to be given or delivered under this contract may be given by delivering it personally or sending it by pre-paid first class post to the address and for the attention of the relevant party as follows:
- 19.2.1. to the Owner at:
 - 19.2.1.1. the registered office of the Buyer from time to time and initially to St James Group Limited, Berkeley House, 19 Portsmouth Road, Cobham, Surrey, KT11 1JG and marked for the attention of the Managing Director; and
 - 19:2.1.2. the Legal Department, St James Group Limited, Berkeley House, 19 Portsmouth Road, Cobham, Surrey KT11 1JG\marked for the attention of Wendy J Pritchard
- 19.2.2. to the Council at:
 - 19:2.2.1. The Civic Centre 44 York Street Twickenham TW1 3BZ marked for the attention of the DCM; and
 - 19:2.2.2. The Legal Department, London Borough of Richmond upon Thames, the Civic Centre 44 York Street Twickenham TW1 3BZ
- 19.3. Any such notice or document shall be deemed to have been received:
- 19.3:1. if delivered personally, at the time of delivery provided that if delivery occurs before 9.00 am on a working day, the notice shall be deemed to

have been received at 9.00 am on that day, and if delivery occurs after 5.00 pm on a working day, or at any time on a day which is not a working day, the notice shall be deemed to have been received at 9.00 am on the next working day;

- in the case of pre-paid first class post, at 9:00 am on the second working day after posting.
- 19.4. In proving delivery, it shall be sufficient to prove that delivery was made or that the envelope containing the notice or document was properly addressed and posted as a prepaid first class letter, as the case may be.
- 19.5. A notice or document delivered under this contract shall not be validly given or delivered if sent by e-mail or fax.

IN WITNESS whereof with the intent that these presents should be executed as a deed the parties hereto have duly executed the same the day and year first before written

SCHEDULE 1

Covenants by the Owner

Part I - Affordable Housing

- The Owner shall obtain all necessary consents and construct the Affordable Housing Units in accordance with the Greater London Authority Housing Design Guide: Design and Quality Indicators applicable to new schemes as in force at the date of this Deed as well as in accordance with Level 4 of the Code for Sustainable Homes ("Standards") or such other versions of the Standards as the Owner is obliged to comply with as a condition of its Grant for the Property
- 2. The Owner shall use its reasonable commercial endeavours to secure the Greater London Authority's approval for the use by the Registered Provider of Recycled Capital Grant towards the provisions of Affordable Housing and in the event that within one year of a Material Start such approval is given or the Greater London Authority confirms unequivocally that such approval shall be given the definition of Affordable Housing Units shall mean 16 such units. In the event that the Owner or the Registered Provider does not secure such approval or unequivocal confirmation of approval of the use of Recycled Capital Grant within one year of a Material Start then the definition of Affordable Housing Units shall mean 1.1 such units
- 3. By whichever is the later of one year after a Material Start or Occupation of 50% of the Market Dwellings all of the Affordable Housing Units shall be constructed to the construction standard set out in paragraph 1 of this Schedule, 1 and have been offered for sale to the Registered Provider by way of a Long Leasehold Interest interalia on the following terms:
- 3.1 the grant by the Owner to the acquiring Registered Provider of all reasonable rights of access support entry and passage of services and other rights reasonably necessary for the beneficial enjoyment of the Affordable Housing Units;
- 3:2. a reservation of all rights of access light air support entry passage of services and other rights reasonably necessary for the purposes of the remainder of the Development; and
- 3.3. such other covenants as the Owner may reasonably require for the construction and maintenance of the Development and the preservation of its appearance
- If the Registered Provider fails to accept the offer referred to in paragraph 3 above by the Owner for the purchase of the Affordable Housing Units within sixty working days after receipt of the offer the Owner shall no later than five working days after the expiration of the sixty working day period advise the Council in writing of this and of the reasons for the failure (if known) and shall then offer the Affordable Housing Units to another Registered Provider whose identity and details shall first and as soon as practicable be provided to the Owner by the Council in accordance with the provisions of paragraph 3 and such process shall be repeated until the Affordable Housing Units shall have been sold to a Registered Provider by way of the grant of a Long Leasehold Interest
- 5. Subject to the Registered Provider accepting the offer referred to in paragraph 3 the Owner shall grant the Long Leasehold Interest in the Affordable Housing Units to the Registered Provider
- The Owner shall not use the Affordable Housing Units other than for Affordable Housing as fully rented units or by persons paying rents but who may also in accordance with provisions of the Council's adopted Intermediate Housing Policy Statement (as amended from time to time) purchase a share in the equity of such Affordable Housing Units and:

- one third of the Affordable Housing Units shall be affordable by residents of the London Borough of Richmond upon Thames with an income per household (i.e. the total income of all occupants of an Affordable Housing Unit) not exceeding sixty-four thousand pounds (£64,000) per annum gross such sum to be further revised in accordance with any revision of the Council's Supplementary Planning Document on Affordable Housing or other equivalent document under the LDF PROVIDED THAT such threshold shall not be revised to less than £64,000 and PROVIDED FURTHER THAT the Owner may apply to the Council to vary the figure of £64,000 in respect of any specific disposal and the Council shall not unreasonably refuse such request and in the event of dispute the matter shall be resolved in accordance with Clause 10 of this Deed and
- two thirds of the Affordable Housing Units shall be affordable by residents of the London Borough of Richmond upon Thames with an income per household (i.e. the total income of all occupants of an Affordable Housing Unit) not exceeding forty two thousand pounds (£42,000) per annum gross such sum to be further revised in accordance with any revision of the Council's Supplementary Planning Document on Affordable Housing or other equivalent document under the LDF PROVIDED THAT such threshold shall not be revised to less than £42,000 and PROVIDED FURTHER THAT the Owner may apply to the Council to vary the figure of £42,000 in respect of any specific disposal and the Council shall not unreasonably refuse such request and in the event of dispute the matter shall be resolved in accordance with Clause 10 of this Deed; and
- 7. The Owner shall not Occupy permit or allow to be occupied more than 75% of the Market Units until the Owner has granted the Long Leasehold Interest in the Affordable Housing Units in accordance with paragraph 5.
- 8: The Owner shall liaise with the Council to ensure that the sale and resale of any Affordable Housing Unit is in accordance with the Council's aforesaid intermediate Housing Policy Statement (as amended from time to time) regarding prioritisation of potential purchasers and in particular:
- 8.1. to market all Affordable Housing Units that are being resold in a timely manner;
- 8:2. to notify the Council when an Affordable Housing Unit becomes available to a new occupier and to request; the Council for a list of Housing Register applicants for marketing purposes;
- 8.3. to provide the Council with such evidence as it shall reasonably require of evidence of marketing in the Council's administrative area for a period of no less than eight weeks from the date notice is given to the Council under paragraph. 8.2 of this Schedule 1
- 9. The provisions of paragraphs 6 and 8 of this Schedule 1 shall not be binding on;
- 9.1. any chargee of the Registered Provider or any person deriving title from or a successor in title to a chargee of the Registered Provider
- 9.2. any purchaser from a mortgagee of an individual Affordable Housing Unit pursuant to any default by the individual mortgagor giving rise to the mortgagee using its power of sale

Part II - Contributions

- 10. The Owner covenants to pay to the Council:
- 10.1. One million pounds of the Affordable Housing Contribution on or before a Material Start and the balance of the Affordable Housing Contribution (six hundred and fifty thousand pounds) before occupation of any of the Market Units;

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- 10.2. The Local Youth Facilities Contribution and the Public Realm Contribution on or before a Material Start;
- 10.3. One half of the Education Contribution and the Health Contribution within one year of a Material Start:
- 10.4. The balance of the Education Contribution and the Health Contribution within two years of a Material Start

Part III - Car Parking Permits

11. The Owner covenants not to Occupy or dispose of or allow any person to Occupy or dispose of any of the Residential Units or the Commercial Units unless a notice has been served on such person that pursuant to the Council's policies to which reference is made in recital (4) hereof or any other policy replacing the same such person shall not be entitled (unless such person is or becomes entitled to be a holder of a Disabled Persons' Badge issued pursuant to Section 21 of the Chronically Sick and Disabled Persons' Act 1970) to be granted a resident's permit to park a vehicle in any marked highway bay or other place within a controlled parking zone within the Council's area nor shall the Council enter into a contract (other than individual contracts for one occasion) with such person to park in any car park controlled by the Council

Part IV - Car Club

- 12. Within six months of a Material Start the Owner shall submit to the Council details of the name of and correspondence with an Accredited Car Club Provider indicating the intention of the Owner to establish that occupiers of the residential and commercial units to be constructed as part of the Development have membership of a Car Club
- 13. The Owner coverants with the Council not to Occupy or permit or allow the Occupation of any part of the Development until:-
- 13.1. an Accredited Car Club Provider for the Development has been approved by the Council (such approval not to be unreasonably withheld or delayed) ("Approved Car-Club")
- 13.2. It has procured at its own expense that each eligible Residential Unit being an apartment or a flat (but not any houses) has one free membership of the Approved Car Club (one per household) for a period of not less than three years or such other period as may be agreed with the Approved Car Club and has provided a copy of the completed contract with the Approved Car Club to the Council
- 13:3. It has promoted and advertised to each potential occupier of the apartments to be constructed as part of the Development which do not have car parking spaces the value and benefits of membership of a Car Club; and
- 14. In the event that the Car Club is no longer able to provide the Car Club for the Development the Owner shall notify the Council in writing and shall then use reasonable commercial endeavours to secure another Accredited Car Club Provider for the Development in accordance with the provisions of this Deed

Part V - Provision of Community Building

- 15. In respect of the Community Building the Owner shall:
- 15.1. prior to or contemporaneously with the commencement of the construction of the apartments in the Mixed Use Building forming part of the Development commence and thereafter carry out the construction of the Community Building in accordance with the provisions of Schedule 3;

- 15.2. not Occupy permit or allow to be occupied more than 50% of the Market Units until the Community Building has been Practically Completed and the transfer of the freehold offered to the Council in accordance with paragraph 15.3
 - 15.3. on Practical Completion offer the freehold of the Community Building for transfer to the Council at nil consideration together with such additional rights and easements as the Council shall reasonably request over the remainder of the Property to facilitate public access from London Road to the Community Building and if the Council accepts such an offer then the provisions of paragraph 17 shall apply.
 - before the Occupation of no more than 50% of the Market Units to be formed in the implementation of the Development to grant to the Council for its benefit and for the benefit of the public generally access across the part of the Property giving access to the entrance to the Community Building to the underpass beneath London Road leading towards Twickenham Railway Station to the parking area and service bay the plaza the Play Street and other areas within the Development to which it is intended that the general public should have access all such areas being shown hatched red on Plan 6
 - Once the Community Building has been transferred to the Council pursuant to paragraph 17 the Council shall procure that the Owner has the facilities reasonably necessary and by arrangement with the Owner full access to the Community Building to enable any minor defects and minor items of outstanding works to be repaired or completed.
 - In the event that the Council accepts the Owner's offer made pursuant to paragraph 15.3 then this shall give rise to an agreement for sale of the Community Building and the following conditions shall apply:
 - 17.1. The Owner with full title guarantee shall sell and the Council shall purchase the freehold of the Community Building at nil or nominal consideration and completion of the sale and purchase shall take place within 28 days of the Council's acceptance of the Owner's offer made pursuant to paragraph 15.3.
 - 17.2. The sale of the Community Building shall be with vacant possession on completion.
 - 17.3. The title to the Community Building has been provided to the Council prior to the date hereof and the Council shall be deemed to purchase the Community Building with full knowledge of all matters contained or referred to therein and shall make no requisitions thereon or objection thereto
 - 17:4. The Standard Commercial Property Conditions (2nd edition) shall apply so far as they are not inconsistent with the terms hereof.
 - 17.5. The transfer of the Community Building shall contain:
 - 17.5.1. such additional rights and easements as the Council shall reasonably request over the remainder of the Property to facilitate public access from London Road and the entrance to the underpass leading to Twickenham Railway Station located on the Property to the Community Building
 - 17.5.2. a reservation of all rights of access light air support entry passage of services and other rights reasonably necessary for the purposes of the remainder of the Development; and
 - such other rights and reservations as the Owner shall reasonably request over the Community Building to ensure the practicable efficient, and economic development of the remainder of the Development including where required the running and supply of services under the Community Building.

- 17.5.4. such other covenants as the Owner may reasonably require for the construction and maintenance of the Development and the preservation of its appearance
- 17.5.5. a restrictive covenant not to use the Community Building (or any relevant part) or allow or suffer it (or any relevant part) to be used at any time other than for a Permitted Use
- a restrictive covenant not to use the Community Building for any illegal immoral or illicit use nor to do anything that may be a nuisance of annoyance to the owners or occupiers from time to time of the remainder of the Property including without limitation any use of the Community Building as a sex shop betting shop erotic dancing premises or for any use in connection with drug or criminal rehabilitation or management
- a restrictive covenant not to hold events or meetings at the Community Building outside the Permitted Hours (other than the holding of twelve Late Events) without the prior written consent of the Owner (such consent not to be unreasonably withheld or delayed provided always that the Owner shall be entitled to withhold its consent in the event that the Owner considers that holding such an event or meeting would materially adversely affect or cause annoyance to the owners and/or the occupiers of the Residential Units)
- 1.7:5.8. a restrictive covenant not to park or allow parking at the Community Building overnight and not to park or allow parking of any commercial vehicles, trailers, caravans, boats or similar vehicles on the estate roads within the Development at any time.
- 17.5.9. provisions requiring the Council to participate in and pay a reasonable and fair proportion according to user of the service and estate charges in respect of the maintenance of the common parts of the Property.
- a restriction on title preventing the disposition of the Community Building without a certificate signed by the Owner or by their conveyancer confirming that the disponee has entered into a deed of covenant in such a form as the Owner shall reasonably require which obliges the disponee to observe and perform the provisions of this paragraph 17.5.
- a provision stating that the transfer is subject to an option in favour of the Owner and their assigns (but for the avoidance of doubt such option shall only apply in the circumstances specified in Schedule 2) to the intent and so as to bind the Community Building and each and every part of it to benefit the remainder of the Property and each and every part of it to repurchase the Community Building from the Council on the terms and in the circumstances specified in Schedule 2 of this Deed which shall also be set out in the transfer
- 17:6. Once the Community Building has been transferred to the Council pursuant to this paragraph 17, the Owner shall grant a licence in a form to be agreed between the Council and the Owner acting reasonably for nil consideration to the Council for the use of a total of 23 car parking spaces to be used in conjunction with the Community Building to be located at such location as shall reasonably be determined by the Owner from time to time and such licence shall allow daytime and overnight parking for all vehicles associated with the Community Building.

Part VI - Heatham House

- 18. The Owner shall:
- 18.1. submit (if the Council shall have requested the same) a planning application within 6 weeks of receipt from the Council of a specification that the Council may reasonably demand for the implementation of the floodlighting to the three sports pitches at Heatham House:
- 18.2. Subject always to having reasonable access to the Heatham House Land to carry out the relevant works, the Owner shall not Occupy or permit to be Occupied more than 50% of the Residential Units to be constructed as part of the Development until the Owner has implemented planning permission Council reference number 13/1397/FUL granted on 13th August 2013 for the installation of a three metre wide footpath and cycleway across the Heatham House Land and the installation of fencing and gates ball-stop netting surrounding the sports pitches and electronically controlled lockable gates at the footbridge across the River Crane together with associated landscaping
- 19. Subject to the Owner complying with its obligations set out in paragraph 20 of this Schedule 1, the Council (as the current owner of the Heatham House Land) shall allow the Owner its contractors, sub-contractors and their respective agents, workmen, sub-contractors, licensees, invitees and all other persons or bodies engaged in the implementation of planning permission referred to in paragraph 18.2 of this Schedule 1 to enter onto the Heatham House Land and to remain there with vehicles, plant and equipment and materials for the purpose of implementing the planning permission referred to in paragraph 18.2.
- 20. The Owner shall give at least one month's written notice to the Council of its intention; to commence the implementation of the planning permission referred to in paragraph 18.2 of this Schedule 1.

Part VII - Construction Method Statement

21. Prior to a Material Start the Owner shall submit a construction method statement including a dust strategy to the Council and receive the Council's approval thereto such approval not to be unreasonably withheld or delayed and thereafter to comply with the provisions of such construction management statement.

Part VIII - Controlled Parking Zone (CPZ) Review

- The Owner shall appoint an independent transport consultant to be agreed with the Council or in default of agreement an expert appointed in accordance with Clause 10 of this Deed to undertake before first accupation of any of the Residential Units traffic surveys (within a survey area being CPZs no further than 200m away from the Property first having been agreed with the Council) (1) at the time of appointment; (2) three months from the date of first accupation of the Community Building; and (3) twelve months after the date of first accupation of the Community Building or on receipt by the Council of complaints by local residents about parking congestion within the survey area whichever is the sooner;
- 23. The Owner shall pay within one month of a request from the Council the cost of any expenditure it has incurred in connection with the traffic surveys (such cost to be determined at the time the traffic survey in question is commissioned) to ascertain if a variation of the hours of operation of such CPZs or any of them is required as a result of changed parking usage arising as a consequence of the implementation of the Development and to pay such further sums that may be required following discussion and subsequent agreement with the Council in connection with public consultation regarding any proposed variation to the hours of operation of CPZs which appear to be necessary as a result of such Traffic Surveys (up to a maximum sum of £25,000).

Indexed) and any additional sums required following discussion and subsequent agreement with the Council towards the cost of implementing changes if such action is taken following such consultation (up to a maximum sum of £25,000 Indexed) all such sums to be Indexed:

Part IX – Local Employment Agreement

- The Owner shall prepare an Employment and Skills Plan in accordance with Appendix C of the Client Based Approach (Construction) document published by the National Skills Academy in May 2012 in a form approved by the Council (such approval not to be unreasonably withheld or delayed) and which shall set out the means by which the Owner and the Council shall work together to maximise employment and training opportunities for local residents and businesses and insofar as it is able to do so having due regard to the Construction (Design and Management) Regulations 1994 and the Owner's Site Rules and Health and Safety Policies to target employment opportunities arising in connection with the implementation of the Development to local residents including:
- 24.1. adopting appropriate recruitment practices;
- 24.2. working with Job Centre Plus;
- 24.3. using reasonable commercial endeavours to ensure that 50% of jobs are filled by residents of the London Boroughs of Richmond upon Thames Hounslow Kingston upon Thames and Wandsworth and Elmbridge and Spelthorne District Councils:
- 24.4. encouraging local training providers and others to ensure that at least 50% of the jobs at the Property during the construction phase of the Development are filled by residents of the Councils set out in c. hereof including 15% from the Council's administrative area
- 24.5. liaising with operators of employment generating uses at the Property to encourage them to work with Job Centre Plus and others to maximise local recruitment opportunities
- 25. The Owner covenants not to Occupy or permit to be Occupied more than 50% of the Residential Units to be constructed as part of the Development until the Employment and Skills Plan has been prepared and submitted to the Council pursuant to paragraph 24 of this Schedule 1

Part X - Travel Plans

- 26. The Owner shall submit to the Council within one year of first Occupation of any Residential Unit a travel survey of residential occupants and their visitors in accordance with a survey methodology to be agreed with the Council
- 27. Within 14 months of the first occupation of any Residential Unit the Owner shall submit to the Council a travel plan based on the results of the survey to which reference is made in paragraph 26 of this Schedule 1 with objectives targets actions and timeframes to manage the transport needs of residents and visitors to the Development to minimise car usage and achieve a shift to alternative transport modes and following approval of such travel plan by the Council the Owner shall implement such actions to secure to secure the objects and targets of the aforesaid travel plan are approved
- The travel plan to which reference is made in paragraph 27 of this Schedule 1 shall be revised annually and a written review of such travel plan shall be submitted to and agreed by the Council acting reasonably by the anniversary of its first approval and yearly thereafter and at the third anniversary the travel plan (including surveys) shall be re-written and resubmitted for further approval by the Council acting reasonably and this review and re-write cycle shall take place until the date which is three years



- after substantial completion of the Development and any approved revision of the travel plan shall be implemented within three months of the date of its approval
- Travel surveys of staff and visitors occupying the Commercial Units and Community Building shall be undertaken in accordance with a survey methodology to be agreed with the Council within 3 months of the commencement of use of the Commercial Units and/or Community Building and a Travel Plan for each Commercial Unit and the Community Building based on the results of the surveys shall be submitted to the Council within a further 3 months with objectives, targets, actions and timeframes to manage the transport needs of staff/visitors to minimise car usage and to achieve a shift to alternative transport modes (the "Commercial Travel Plan") and following approval by the Council acting reasonably the Owner shall then implement these actions to secure the objectives and targets within the approved Commercial Travel Plan
- The Commercial Travel Plan (including surveys) shall be annually revised and a written review of the Commercial Travel Plan submitted to and agreed by the Council by the anniversary of its first approval and yearly thereafter and at the third anniversary the Commercial Travel Plan (including surveys) shall be re-written and resubmitted for further approval by the Council and this review and re-write cycle shall take place until the date which is three years after substantial completion of the Development and any approved revision shall be implemented within three months of the date of its approval

Part XI - Environmental Provisions in leases of Restaurants

- 31. The Owner shall use reasonable endeavours to include the following obligations within any commercial leases of the Commercial Units (but not so as to delay the Development or materially prejudice its negotiations with any proposed tenant):
- 31.1. A provision to the effect that the tenant may with the landlord's consent (not to be unreasonably withheld or delayed) carry out alterations to the relevant premises aimed at reducing energy use or water consumption or improvement of waste management provided such alterations do not adversely affect the performance or life cycle of any mechanical or electrical services or any other plant, equipment or services in the premises and are not structural alterations.
- 31.2. A provision to the effect that the landlord shall consider any reasonable suggestions made by the tenant to avoid or minimise so far as reasonable practicable, any adverse impact on an existing EPC rating or the efficiency of the use of energy or water of the premises which may be caused by any works to be carried out by the landlord.
- 31.3. A provision to the effect that the tenant shall not be required to reinstate any tenant's alterations which have been carried out lawfully during the term and which improve the energy or water efficiency of the premises unless such reinstatement is reasonably required by the landlord having regard to its intentions in respect of the use or re-letting of the premises after the expiry of the term.
- 31.4. Provisions to the effect that the landlord and the tenant shall, from time to time, consider any actions which could reduce energy and water use and recycling waste in respect of the premises and to agree targets and strategies to implement any such actions.
- 31.5. A provision to the effect that the landlord and the tenant will agree to work collaboratively to improve the environmental performance of the premises.

Part XII – Public Access Agreements

- The Owner shall permit insofar as the Owner is able and prior to 1 March 2016 public access including use (without charge) by pedestrians bicycles and cars to those areas shown hatched red on Plan 6 attached to this Deed and comprising the front half of the site including the piazza access and egress to the Heatham House section of the footpath alongside the River Crane and to the underpass leading to Twickenham Railway Station at the point shown marked "A" on Plan 6.
- The Owner shall allow reasonable public access to the Play Street which for the avoidance of doubt includes the whole of Brewery Lane and is shown coloured turquoise on Plan 5 except at such times as it is in use as a Play Street in accordance with the Play Street Strategy as described in paragraph 35 of this Schedule 1 or at such times as it is closed in accordance with the provisions of the Site Management Plan (including Event Days) and at all times to use the Play Street in accordance with the aforesaid Play Street Strategy and to reimburse to the Council its reasonable costs incurred in obtaining a Traffic Management Order or such other statutory permission as may be needed to fulfil the provisions of this paragraph of this Schedule 1
- 34. The Owner shall allow the Council and the Environment Agency reasonable access solely for the purposes of its service vehicles and personnel across the piazza and riverside walk forming part of the Development and shown hatched blue on Plan 4-attached hereto
- 35. The Owner shall submit to the Council within one year of a Material Start a strategy ("Play Street Strategy") for the delivery of the Play Street and to implement the approved Play Street Strategy within 12 months of the date of the Councils approval (such approval not to be unreasonably withheld or delayed).
- 36. The Owner shall not Occupy or permit to be Occupied more than 50% of the Residential Units to be constructed as part of the Development until the Owner has submitted the Play Space Strategy to the Council.

Part XIII - Site Security and Site Management Plan

- The Owner shall not to permit the Occupation of more than 50% of the Market Units until it has agreed the provisions of a site management plan ("Site Management Plan") with the Council (such agreement not to be unreasonably withheld or delayed) to include:
- automatically lockable gates timed to close between dusk and dawn each day at the points marked "X" and "Y" on Plan 8;
- 37/2. a CCTV to the riverside walk at the points marked "X" and "Y" on Plan 9;
- 37.3. the maintenance and recording on a repeated loop of CCTV images as parts of the site management of the Property;
- 37.4. the erect signs to a design and at points agreed by the Council showing shared surface arrangements with cyclists;
- 37.5. provisions for the locking of gates to the riverside walk on any Event Days;
- 37.6. implementation by all affected parties of the site management plan within three months of the date of its approval and operation of such site management plan or any revision approved by the Council at all times thereafter

Part XIV - Road Junction alterations

38. Within six months of a Material Start the Owner and the Council shall enter into an agreement under section 278 of the Highways Act 1980 under which the Council shall undertake the works shown on Plan 10 attached to this Deed which shall include but not be limited to the alteration of the position of the kerb to the pavement

- at the junction of the new internal access road and the Owner shall not permit occupation of any of the Residential Units until the Owner has entered into such \mathcal{K} agreement
- The Owner and the Council shall prior to the signing of the section 278 agreement pursuant to paragraph 38 of this Schedule use reasonable endeavours to agree on the estimated costs of the works and the Owner shall pay the Council 16% of the estimated costs of the works as supervision fees for the Council's Engineer to oversee the works to ensure that they are carried out to the reasonable satisfaction of the Engineer and in the event that the costs of such works is more or less than the estimated cost then the amount paid as supervision fees shall be adjusted between the parties such that the amount paid shall be 16% of the actual cost of the works.

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Part XV—Charging Points for Electrically Propelled Vehicles

- 40. The Owner shall provide and maintain charging points for electrically propelled vehicles in the positions shown marked blue on Plan 11.
- 41. The Owner shall not Occupy or permit to be Occupied more than 50% of the Residential Units to be constructed as part of the Development until the Owner has provided the charging points for electrically propelled vehicles in accordance with paragraph 40 of this Schedule 1

Part XVI - Noise Mitigation Measures

- The Owner shall not dispose of a Residential Unit without notifying the potential occupier of purchaser of the location of the floodlit playing pitches at Heatham House and shall inform future occupants that noise complaints to the Council shall be assessed on the basis of the noise mitigation measures designed into the Residential Units being in operation
- The Owner shall undertake further sound proofing measures to Residential Units where noise readings of over 55db created by the activities on the Heatham House land as referred to in paragraph 42 are witnessed by the Council acting reasonably for append of 2 years after first occupation of the last of the Residential Units

Part XVII – Provision of Public Art

- The Owner shall provide a Public Art Strategy for the Property to be approved by the Council (such approval not to be unreasonably withheld or delayed) and shall provide an item of art to be approved by the Council (such approval not to be unreasonably withheld or delayed) within a part of the Property that is accessible to the public and is within the area shown hatched red on Plan 12
- The Owner shall not Occupy or permit to be Occupied more than 50% of the Residential Units to be constructed as part of the Development until the Owner has provided a Public Art Strategy for the Property to the Council in accordance with paragraph 43 of this Schedule 1.

Part XVIII - Water Framework Directive

- The Owner shall within 12 months of a Material Start by the Owner submit to the Council information to the approval of the Council to demonstrate compliance with the Water Framework Directive Assessment
- 47. The Owner shall not Occupy or permit to be Occupied more than 50% of the Residential Units to be constructed as part of the Development until the Owner has submitted information to demonstrate compliance with the Water Framework Directive Assessment in accordance with paragraph 45 of this Schedule 1.

Part XIX - Legal Costs and Monitoring Fee

48. On the date hereof the Owner shall pay the Council's reasonable and proper legal costs in the preparation and completion of this Deed in the sum of £1,000 and the Indexed Monitoring Fee.

SCHEDULE 2

Option to Repurchase

- 1. For a period of 80 years from the date of this Deed the Owner and its assigns have the option to repurchase the Community Building for the sum of One Pound (£1.00) in the circumstances described in paragraph 2 of this Schedule 2.
- The circumstances referred to in paragraph 1 above are where the Council passes a resolution or otherwise decides to appropriate the Community Building or part thereof exercising its statutory powers under Section 122 of the Local Government Act 1972 or Section 237(1) of the Town & Country Planning Act 1990 or under any other statutory power or regulation for a purpose other than the use of the Community Building for a Permitted Use.
- The Owner may exercise its option by service of a notice in writing on the Council and such notice shall constitute a contract for the sale and purchase of the Community Building and Part 1 of the Standard Commercial Property Conditions (Second Edition) shall apply save that no deposit shall be payable.

SCHEDULE 3

Construction of the Community Building

1. Community Building Works

- The Council and the Owner shall use all reasonable endeavours to agree as soon as reasonably practicable and in any event prior to the commencement of any above ground level works in respect of the Mixed Use Building the exact specification and/or finishes to the following aspects of the Community Building Specification taking into account the outline specification of these works set out in the Community Building Specification and provided that such works do not exceed the cost allowed for such works as set out in the costs plan annexed to this agreement at Annexure 1:
 - 1.1.1. Subsection 3.1 (Publics Health Systems (within the building));
 - 1.1.2. Subsection 3.2 (Mechanical Systems);
 - 1.1.3. Subsection 3.3 (Electrical Services);
 - 1.1.4. Subsection 4.3 (External Walls);
 - 1.1.5. Subsection 4.4 (Windows and External Doors);
 - 1.1.6. Subsection 4.6 (Internal Construction);
 - 1.1.7. Subsection 4.7 (Internal Doors, Hatches and Ironmongery);
 - 1.1.8. Subsection 4.8 (Floor Finishes);
 - 1.1.9. Subsection 4.9 (Sanitary Fittings);
 - 1.1.10. Subsection 4.10 (Other Fittings);
 - 1.1.11. Associated Room Data Sheets;

And the parties shall submit the proposed specification and/or finishes of the above aspects of the Community Building Specification to the IEA in accordance with paragraph 2/2/4 of this Schedule.

Any dispute regarding the exact specification and/or finishes of the above aspects of the Community Building Specification may be referred by either party to an Expert in accordance with clause 10.

- 1.2. Once the exact specification and/or finishes to those aspects of the Community Building Specification set out in paragraph 1.1 of this Schedule have been agreed or determined pursuant to paragraph 1.1 of this Schedule, these specifications and/or finishes will form part of the Community Building Specification.
- 1.3. The Owner will carry out the Community Building Works in a proper and workmanlike manner and in accordance with the Community Building Specification and confirms that it will be liable for any latent defects arising from breach of this obligation for a period of 12 years from the date hereof.
- 1.4. Subject to the provisions of paragraphs 1.1 and 1.2 above, the Owner shall use its reasonable commercial endeavours to Practically Complete the Community Building Works before the Community Building Target Date in accordance with the Community Building Specification
- 1.5. Within 20 Working Days after entering into a building contract in respect of the Community Building Works and/or any relevant appointment of a member of the Professional Team the Owner shall obtain Collateral Warranties from the Contractor and each of the Professional Team and shall hand these over to the Council
- 1.6. The Council acknowledges the Owner's right to make such minor modifications or variations to the Community Building Specification from time to time as may be, in

the Owner's reasonable opinion, expedient or necessary PROVIDED THAT such variations do not materially affect the market value, quality or amenity of the Community Building and PROVIDED FURTHER THAT the Owner shall consult with the Council where practical and shall notify the Council of any such modifications or variations made pursuant to this paragraph 1.5 as soon as reasonably practicable.

1.7. In the event that any modifications or variations to the Community Building Specification proposed by the Owner materially affect the market value quality or amenity of the Community Building then the Owner shall only be entitled to make such modifications or variations with the Council's prior written consent (not to be unreasonably withheld or delayed).

2. IEA

- 2.1. The Owner shall fund the appointment of an IEA on a fixed fee basis who shall be appointed by the Council (such appointment to be approved in writing by the Owner acting reasonably) and shall be an independent person to be agreed upon between the parties or in default of agreement to be appointed pursuant to the provisions of clause 10.
- 2.2. The appointment of the IEA in accordance with paragraph 2.1 of this Schedule 3 shall instruct the IEA to monitor the construction of the Community Building and act in accordance with the following provisions:
- 2.2.1. The IEA shall be given permission at all reasonable times during the period of the Community Building Works by prior arrangement with the IEA and the Contractor to enter the Community Building Site in order to inspect and view the state and progress of the Community Building Works and ensure that the Community Building Works are being carried in accordance with the Community Building Specification.
- 2.2.2. The IEA in exercising the rights contained in paragraph 2.2.1 shall comply with all relevant safety requirements at the Property and may not impede or obstruct the progress of the construction works nor issue any instructions to any Contractor any workmen employed on the site or the Professional Team but shall address any requirement comment or complaint only to the Owner.
- The Owner shall give to the IEA reasonable prior notice of site and other formal meetings of the Professional Team and the Contractor or any of them in connection with the Community Building Works and the IEA shall be invited to attend and participate in such meetings and the IEA shall in any event be required to attend design meetings organised by the Owner on a monthly basis
- 2.2.4. The Owner may from time to time submit detailed design information consisting of floorplans, elevations, M&E layouts and specification to the IEA and the IEA shall be required to comment in each case within 5 Working Days.
- 2.2.5. The Owner shall pay due regard to any comments or requirements of the IEA which are consistent with the terms of this Agreement but subject to paragraph 2:2.6 the Owner shall have the right to reject any such comments if it is reasonable to do so
- 2.2.6. The Council shall through the IEA have authority to request changes to the Community Building Specification and the Owner shall, be under no obligation to accept any such changes which may result if either (a) the cost allowed for such works as set out in the costs plan annexed to this agreement at Annexure 1 is exceeded: or (b) extensions to the

construction period for either the Community Building or any other part of the wider development construction save where agreement has been reached with the Council providing for the additional costs and/or costs associated with the extension of the building programme being paid for by the Council which additional costs shall be paid to the Owner within 20 Working Days of demand

3. Practical Completion

- The Owner shall notify the Council and the IEA with at least 5 Working Days' notice in writing of the date upon which the Owner intends to allow inspection of the Community Building Works with a view to issuing a certificate of Practical Completion and the Council shall procure that the IEA shall inspect the Works within 5 Working Days of the date specified by the Owner in such notice as the date upon which it shall allow inspection.
- The Council shall procure that the IEA acting reasonably if satisfied that it be the case shall certify that the Community Building Works have to all intents and purposes reached practical completion and the Council shall further procure that the IEA shall issue a notice in writing to that effect to both the Council and the Owner forthwith upon such certification and this procedure shall be repeated as often as necessary relating to the Community Building Works.
- 3.3. If on such inspection as referred to in paragraph 3.1 the IEA does not consider that the Community Building Works are Practically Complete the IEA shall, within 5 Working Days of such inspection serve a defects notice ("the Defects Notice") to that effect on the Owner. On receipt of such Defects Notice the Owner shall, without delay, procure the remedy and/or rectification of any work specified in the Defects Notice by the IEA or serve a notice within 5 Working Days of receipt of such Defects Notice requiring the question of whether or not the Works are Practically Complete to be resolved in accordance with Clause 10.
- Any dispute as to whether or not the Community Building Works or any part of them have reached practical completion may be referred by either party to an Expert in accordance with clause 10 of this Agreement
- For the avoidance of doubt Practical Completion shall not be delayed due to the existence of minor defects and minor items of outstanding works which the Owner is satisfied (acting reasonably) can be carried out after Practical Completion and within 3 months following Practical Completion the Owner and the Council shall procure that the IEA produces a snagging list of any minor defects or items of outstanding works to be remedied and/or carried out by the Owner as soon as practicable
- 3.6. The Owner and the Council shall procure that the IEA produces a list within 1 month of the expiry of the Defects Liability Period identifying any defects, shrinkages or faults that have appeared in the Community Building Works during the Defects Liability Period and the Owner shall procure that any such defects, shrinkages or faults are made good as soon as reasonably practicable.
- 3.7. When any defects or other faults which the IEA may have required the Owner to make good pursuant to paragraphs 3.5 and 3:6 of this Schedule 3-shall have been made good, the Owner shall notify the IEA and the IEA shall issue a notice to that effect (such notice not to be unreasonably withheld or delayed).
- 3.8. The Council shall allow the Owner the facilities reasonably necessary and full access to the Community Building to enable any defects to be repaired pursuant to the provisions of this Schedule 3.

Annexure 1 Community Building Specification



FORMER TWICKENHAM SORTING OFFICE

COMMUNITY BUILDING

OUTLINE BUILDING SPECIFCATION

27th February 2014

CONTENTS

- **COMMUNITY BUILDING GENERAL** 1.
 - Proposed Uses
 - 1.1 1.2 Planning Drawings
 - 1.3 **Building Layout**
- **RELEVANT TECHNICAL STANDARDS** 2.
 - 2.1 **Building Regulations**
 - LBRuT Technical Specifications 2.2
- 3. SPECIFIC DESIGN CRITERIA
 - 3.1 Public Health Systems
 - Mechanical Systems 3:2
 - 3.3 Electrical Services
 - Acoustic Performance 3.4
 - Auditorium Specification 3.5
 - Café/Bar and Catering Facilities 3.6
 - General Communication Facilities 3.7
- **BUILDING CONSTRUCTION** 4.
 - 4.1 Substructure
 - Superstructure 4.2
 - 4.3 External Walls
 - 4.4 Windows and External Doors
 - 4.5 Roofs
 - Internal Construction. 4.6
 - 4.7 Internal Doors, Hatches and Ironmongery.
 - Floor Finishes 4.8
 - Sanitary Fittings 4.9
 - 4.10 Other Fittings

APPENDICES

- 1. **PLANNING DRAWINGS**
- 2. **COMBINED GENERAL & M&E ROOM DATA SHEETS**
- THEATRE PLAN TECHNICAL MASTER PLAN JULY 2013 3.
- THEATRE PLAN EQUIPMENT COST ESTIMATE 3A.
- HANN TUCKER ACOUSTIC DESIGN CRITERIA REPORT 4.
- GENERAL SPECIFICATION SCHEDULE (PLANNING STAGE) 5.
- **OCCUPANCY SCHEDULE** 6.
- **COST PLAN**



1. COMMUNITY BUILDING - GENERAL.

1.1 Proposed Uses

The specification for the Community Building has been prepared to accommodate the proposed range of uses identified by London Borough of Richmond upon Thames (LBRuT) which include:

Flexible Auditorium Space

- Live performance including theatre, dance, music and film screenings;
- Appropriate 'back of stage 'areas including dressing rooms, WCs and storage;
- Seating for 300 350 people; and
- Non-performance including conferencing, exhibitions, craft fairs, workshops/classes and corporate/civil events; and
- Auditorium to be fitted with flat semi-sprung timber floor, adequate technical installations for lighting, sound and communications.

Circulation Spaces:

- Appropriate foyer facilities to be provided for audience/event attendees; and.
- Facilities to include WCs, caté/bar, box office / merchandise counter.

Flexible Multi-purpose Rooms

- Available for meetings, classes, workshops and exhibitions;
- · Dedicated dance / aerobic / yoga space; and
- Dedicated 'wet room' areas.

Ancillary Areas

- Café/bar facility for daily and event use;
- Conservatory room for exhibitions/functions; and
- Back of house catering area.

1.2 Planning Drawings

The specification takes into account the planning drawings which are as follows:

- Lower Ground & Ground Floor Plans Ref: 12.035-DP-10.F
- First, Second & Third Floor Plans Ref: 12.035-DP-11.E
- Fourth Floor & Roof Plans Ref: 12.035-DP-12.D
- Proposed Community Building Elevations Ref: 12:035-DP-20.E
- Proposed Community Building Section A A Ref: 12:035-DP-30.F.

1.3 Building Layout

The Community Building will be delivered in accordance with the planning drawings and will provide the following:

Basement/Lower Ground Floor Area

2 x dressing rooms; male and female WC and showers; plant and technical rooms; 2 x storage spaces; accessible WC and shower; refuse store; catering area; access to stage via staircase and platform lift; underground link to access main building lift and stair core (see Planning Drawing Ref: 12.035 DP-10.F).



Ground Floor

Entrance with canopy, fover with staircase to first floor and reception desk; lobby area providing access to performance hall, male and female toilets and changing places facility; access to lift and stair core (see Planning Drawing Ref: 12.035-DP-10.F).

Äuditorium

Multi-purpose performance hall with space for a 6m deep stage area; back stage lobbled crossover; retractable seating with dedicated storage area, fixed first floor and side gallery seating and space loose seating; 20x general storage areas (see Planning Drawing Refs: 12.035-DP-10.F, 12:035-DP-11.E and 12:035-DP-30.F).

First Floor

Lobby area with balcony to overlook ground floor foyer; access to lift and stair core; 2 additional lobby areas to access the first floor fixed gallery seating via 2 sets of doors; merchandise/box/office area; cafe/bar facility with space for seating/table area and associated external balcony (see Planning Drawing Ref: 12:035-DP-11.E).

Control Room Level

Stair and lift access directly into Control room providing visual link to Auditorium (see Drawing ref; 12.035-DP-1:1.E)

Second Floor

2 x multi-purpose rooms (including optional catering space); central lobby area providing male, female and accessible toilets; back of house kitchen/bar; access to lift and stair core; conservatory room providing access to second floor external terrace area (see Planning Drawing: 12:035-DP-11.E).

Third:Floor

2 x multi-purpose rooms; office/admin room; cleaners room; central lobby area providing male and female toilets; access to lift and stair core (see Planning Drawing: 12.035-DP-11.E).

Fourth Floor

2 x multi-purpose rooms; central lobby providing access to male, female and accessible toilet; access to lift and stair core (see Planning Drawing: 12:035-DP-11:D).



2. TECHNICAL STANDARDS

2.1 Building Regulations

The following Building Regulations will be applicable to the design of the Community Building:

Part A Structure

Part B2 Fire

Part C Site Preparation

Part D Toxic Substances

Part E Acoustics

Part F Ventilation

Part G Sanitation

Part H Drainage

Part J Combustion Appliances

Part K Collision and Falling

Part L2A Conservation of Fuel and Power

Part M. Accessibility

(to be referred to in conjunction with BS: 8300).

Part N Glazing

2.2 LBRuT Technical Specifications

LBRuT has advised that its Standard Electrical Specification and Standard Mechanical Specification documents are be considered in the detailed design of the Community Building. These documents provide the relevant standards for all new public buildings within the Borough. St James and LBRuT will agree the extent to which these documents will be applicable to this project.



3. SPECIFIC DESIGN CRITERIA

3.1 Public Health Systems

Rainwater Pipework

Above ground rainwater pipework design will be based on BS EN 12056:3. Rainfall intensity will be based on the nature and use of the building and appropriate category of risk that can be accepted. Rainwater pipework will run from the roof level rainwater outlets to ground floor level, connecting to the below ground system.

Foul Drainage - Above Ground

Above ground foul drainage design will be based on System III as defined in BS EN 12056-2 and using the tabulated discharge units identified in Table 2. Large diameter sanitary discharge pipework will be installed in uPVC or similar, from the highest outlets to ground floor level or basement floor level, connecting to the below ground system. Small diameter sanitary discharge pipework will be installed in muPVC. Where small diameter pipework is exposed it will be coloured white. The system will include ventilating pipes to atmosphere and air admittance valves where required.

Cold Water

It is proposed that a new incoming water main will be installed to serve the Community Building. As a BREEAM requirement, the supply will be metered at the connection to the utilities main and at the entry point to the building. The mains water supply will be distributed to all potable water outlets to all floor levels.

A small packaged break tank and booster pump set will be installed to provide sufficient pressure for water distribution to the sanitary appliances on the top/floor of the building. This will be designed for pressure boosting only and not to provide back up water supply during an interruption to mains supply. As well as serving all sanitary appliances; this boosted water supply will feed the hot water system.

Pipework will be installed in copper or crimped plastic. The entire domestic water system installation will be designed and installed in accordance with the relevant parts of BS EN 806 and the requirements of the local water Authority.

Hot Water

Hot water is generated using a variable refrigerant flow (VRF) heat pump boiler. The technology extracts heat from outside air and concentrates this energy to heat the hot water system. The system can also achieve further efficiencies, by recovering heat from areas of the building that require comfort cooling and using this energy to heat the hot water.

The system will use two VRF heat pump boilers connected to a buffer vessel. Pipework will be run from the buffer vessel to serve all sinks, wash hand basins and showers within the community building.

Hot water outlets serving disabled toilets and public areas will be provided with thermostatic mixing valves to restrict outlet temperatures. Pipework will be designed in accordance with BS EN 806 and Water Regulations. Pipework will be installed in copper and will be insulated and vapour sealed.



3.2 Mechanical Systems

Natural Gas

There are no proposals to utilise natural gas.

Low Temperature Hot Water Heating

A small LTHW space heating system will be installed for the toilets. The LTHW will be generated using a VRF heat pump boiler and use a distribution pipe network run out to radiators in each toilet area.

Comfort Cooling and Space Heating

It is proposed that the multi-purpose rooms and the cafe/bar area will have variable refrigerant flow (VRF) fan coil units to provide cooling and heating. The VRF system will use a set of external condensers.

The fan colliunits in each room will generally be ceiling cassette units, with a ducted supply from the fresh air ventilation system and adjustable vanes.

Fresh Air Treatment

It is proposed that VRF heat pumps will be used to treat the incoming fresh air. This system will heat the air in winter and cool the air in summer. External condensers will be installed.

General Supply and Extract Ventilation (Auditorium - Displacement Ventilation)

In the auditorium (theatre), it is proposed to use displacement ventilation. This type of system introduces fresh air at low level, at very low velocity. The vitiated air is extracted at high level. As a result, occupants have the opportunity to inhale the fresh air and the heating and comfort cooling of the room can be provided by the ventilation system.

The auditorium air handling unit will be located in the basement mechanical plant room and will draw fresh air in through a louver in the façade. The air handling unit will then provide filtration, heat-recovery and temperature control. The treated fresh air would pass through the supply ductwork, buried in a trench, from the basement plant room, to the riser behind the theatre. At this location, the air would pass in to the theatre space; using a purpose designed set of displacement diffusers.

The proposed design is based on the room occupancies of 300.

Other Areas

It is proposed to install a central air handling unit to serve the other occupied areas of the Community Building (multi-purpose rooms, cafe/bar, reception and lobby areas etc).

For maximum proposed design occupancy refer to Appendix 6 Occupancy Schedule.

It is currently assumed that the ground floor will only have a transient occupancy and can be naturally ventilated.

Toilet Extract

Toilet extract ventilation will be provided by a central extract unit, located on the roof of the 4th floors

Kitchen Ventilation

A kitchen extract ventilation system will be installed. This system will remove heat and small levels of odour but it will not deal with grease or high levels of odour.



Central Control VRF (Comfort Cooling) Controllers

A central VRF control system will be installed with associated room controllers located in each room. Generally, the room controllers will be fixed, wall mounted type.

3.3 Electrical Services

Incoming Supply

A 400A 260kVA supply from the substation in the adjacent residential building will be provided. This shall terminate to a meter position within the Lower Ground Floor plant room.

Distribution Equipment

A MCCB panel board will be located within the lower ground floor switch room. Dedicated power and lighting boards will be provided for the auditorium, the cafe/bar and the kitchen. Dedicated submains: will:also, be provided to the lift, the mechanical control panel and large mechanical plant.

Lighting and Emergency Lighting

The internal lighting will be designed to provide the following maintained luminance in accordance with CIBSE recommendations:

- Lobbies 100 lux
- Main entrances 150 lux
- Staircases and Corridors 100 lux.
- Plant areas 150 lux
- Stores 100 lux
- Auditorium 400 lux.
- Mülti-purpose-rooms-400 lux

Lighting control to toilets; corridors, stairs, multi-purpose rooms and stores will be achieved by PIR control. Manual switching will be provided within the kitchen and cafe/bar.

Emergency Lighting will be designed to comply with BS5266 designed to maintain minimum levels as detailed below for a 3 hour minimum duration:

- Escape routes 1.0 lux non maintained
- Plant areas 1.0 lux non maintained
- Auditorium 0.2 lux maintained

External lighting will be provided by means of luminaires to light building entrances and exits. They will be controlled by combined photocell/time; switch control.

General Power

Switched socket outlets will be provided throughout the building for general purpose and cleaners use.

Power supplies will be provided for fixed equipment.

Power supplies will be provided for kitchen equipment and also sockets for general purpose use:

Auditorium Specialist Requirement

Power supplies and cable containment will be provided for stage lighting, audio and projection systems.



Fire Detection and Alarm

The fire detection and alarm system will be designed to meet the requirements of BS5839. It is proposed to install fire detection and alarm system to L1 standard.

Telecoms and Data Infrastructure

The incoming telecom cable will terminate to a Distribution point (DP) within the electrical switch room. From this it is proposed to run a cable to a data cabinet in the reception area of the ground floor. Data outlets will be provided in the reception area, office/admin room and cafe/bar.

Incoming telecom cables will also be provided to serve essential lines (Lift and fire/security):

TV/System

Containment for future TV/Sky to the cafe/bar area and the auditorium will be provided.

Security/Access Control/CCTV Requirements

CCTV cameras at the main entrance, in the bar, main foyer area, conservatory and balcony will be provided. Viewing and recording facilities will be at the main reception desk.

An intruder alarm system will be provided to ground and first floor areas, the keypad control will be in the reception.

Lightning Protection

The Lightning Protection Strategy for the main development will govern the degree of lightning protection required for the Community Building. A risk assessment will be conducted to establish this.

3.4 Acoustic Performance

The acoustic design criteria for the Community Building fall into the following categories:

- Indoor Ambient Noise Levels (from external noise intrusion & building services);
- Internal sound insulation (airborne and impact);
- Rain noise;
- Reverberation; and
- Building Services noise.

Plant noise emissions will be designed to 10dBA below background recorded levels in accordance with the Local Planning Authority requirements, in order to protect the interests of local residents and other potentially noise sensitive areas.

Acoustic Design Criteria - Indoor Ambient Noise Levels

Indoor ambient noise levels are to include contributions from external sources outside the premises (including but not limited to, noise from road, rail and air traffic, industrial and commercial premises) as well as internal building services sources.

The following table presents the upper limit of indoor ambient noise levels in various internal spaces during normal ventilation conditions. For guidance, the equivalent NR levels are presented for rooms served by mechanical ventilation.



Room Type	Upper Limit Indoor Ambient Noise Level, L _{Aeq,30min} (Equivalent NR)
Auditorium	35dB (NR30)
Dance Classroom	40dB (NR35)
Foyer, Circulation Space, Changing Rooms, Corridors, Stairwells	45dB (NR40)
Kitchens*,,Toilets*	50dB (NR45)
Office, Admin	40dB (NR35)
Câfé/Bar	45dB (NR40)
Multi-Purpose 'Flexible' Space*	40dB (NR35)
Conservatory (corporate, exhibitions, private hire)	40dB (NR35)

*If a dry flexible space is identified as to be used for music practice this area would be designed to have an upper limit indoor ambient noise level of 35db (NR30)...

During rapid ventilation conditions, the above values can be increased by 5dB.

Acoustic Design Criteria - Internal Sound Insulation

'The performance standard shall be defined by the activity noise in the 'source' room and the noise sensitivity in the 'receiving' room in accordance with the following two Tables.

Type of Room	Activity Noise (Source Room)	Noise Tolerance (Receiving Room)
Auditorium	High	Very Low
Dance Classroom:	Veryihigh	Low-
Foyer, Circulation Space, Changing Rooms, Corridors, Stairwells	Average	Medium
Kitchens*, Toilets*	Average/High	Ӊigh
Office, Admin	Average	Medium
Café/Bar	High	High
Multi ² Purpose 'Flexible' Space	Average	Low
Conservatory (corporate, exhibitions, private hire)	Average	Low



	D _{nt} (T _{mt,max}),w Activity Noise in Source Room				
•		Low	Average	High	Very High
Noise Tolerance Receiving Room	High	30	35	45	55
	Medium	35	40	50	[.] 55
	Low	40	45	55	-55-
	Very Low	:45:	50	55	60

Acoustic Design Criteria - Reverberation Times

The following performance standards for reverberation times within different spaces are recommended and will need to be agreed with Building Control.

Room Type:	Mid Frequency Reverberation Times T _{mf} (seconds)
Auditorium	<1.0
Dance Classroom	·<1:2'
Atrium, Circulation Space, Changing Rooms, Corridors*, Stairwells*	<1.5
.Kitchens*: Toilets*	<1.0
Office, Admin	<1:0
·Çafé/Bar	<1.0
Multi-Purpose 'Flexible' Space .	<0.8
Conservatory (corporate, exhibitions, private hire)	<0:8



Acoustic Design Criteria - Building Services Noise (Atmospheric)
The Planning Authority's criteria for the proposed development are as follows:

Prior to the commencement of development, a scheme shall be submitted to and approved in writing by the local planning authority which demonstrates that the following noise criteria can be complied with and shall the reafter be retained as approved.

- 1. The cumulative measured or calculated rating of noise emitted from the proposed plant to which the application refers, shall be 5dB(A) below the existing background noise level or 10dB(A) below if there is a particular tonal or discrete component to the noise, at all times that the mechanical system etc. operates. The measured or calculated noise levels shall be determined at the boundary of the nearest ground floor noise sensitive premises or 1 metre from the façade of the nearest first floor (or higher) noise sensitive premises, and in accordance to the latest British Standard 4142; An alternative position for assessment/measurement may be used to allow ease of access, this must be shown on a map and noise propagation calculations detailed to show how the design criteria is achieved.
- 2. The noise from the proposed plant must achieve the good to reasonable standard for internal noise levels detailed in Table 5 of BS 8233 Sound Insulation and Noise Reduction for Buildings C of P.
- 3. The plant shall be supported on adequate proprietary anti-vibration mounts as necessary to prevent the structural transmission of vibration and regenerated noise within adjacent or adjoining premises, and these shall be so maintained thereafter. Reason: To protect the amenities of nearby occupants.

Based on the above requirements, it is recommend that the following plant noise emission criteria should be achieved at 1 metre outside the nearest residential property.

Position	Plant Noise Emission Criteria (dB:re 2x10 ⁻⁵ Pa)		
	Daytime (07:00 – 23:00 hours)	Night-time (23:00 – 07:00 hours)	
1	42	30	
2	32	30	
3	38	28	

Any plant with a tonal or intermittent characteristic should be designed to a noise levels 5dB lower.

3.5 Auditorium Specification (to be read in conjunction with Theatre Plan Master Plan)

General Lighting

Single system using LED lighting to achieve uniform minimum 400 lux across the auditorium. Fittings will be individually addressable and dimmable and will provide 'House Lighting' and 'Working Light' scenarios:

Stage Lighting

St James
Designed för life

Stage lighting will be controlled from a plug-in lighting desk. Provision will be made to hang spotlights and floods within the auditorium but principally around the stage area. Set up likely to include:

- 2 x 24 way dimmer racks, total 48 circuits;
- 1 x 12 way 'Independent' non-dim contactor rack;
- 1 x 48 way part manual, part computerised lighting desk;
- 1 x 10 way DMX control signal splitter;
- 6:xiinternally, wired bars running across the stage and auditorium at high level on which stage luminaires and rigged;
- Various production lighting socket outlet boxes; and
- Basic supply of stage luminaires and accessories.

Main 'House' Audio system

A basic 'House' audio system providing local control of installed speakers, microphones, laptop, etc. all routed back to an equipment rack in the technical room in the basement. System can be expanded to allow to plugging in of additional equipment and taking control with a portable mixing desk, for more complex shows. Set up likely to include:

- Equipment rack, with amplifiers, EQ digital signal processor, microphone and loudspeaker patch-bays;
- Portable source rack, with CD/DVD, flashcard, MP3/4 devices;
- Portable audio mixer, analogue, say 16 into 2 channels;
- Installed 'House' speaker system, central cluster and side columns;
- Facility panels and plug-in points; and
- Local House Control.

<u>Technical Communication</u>, <u>Paging and Show Relay</u> Set up likely to include:

- Show relay microphone, amplifier; signal router, front of house and backstage speakers, and simple Stage Manager's microphone box;
- Ring intercom amplifier, belt packs and headsets; and
- Audio Loop for Hard of hearing and amplifier.

Projection

Digital projector hanging under celling in front of 'stage' area, 'projecting onto 6 metre 16;9 ratio electric roll-down high brightness front projection screen approximately 5m width. Laptop plug-in catered for under Audio section. Set up likely to include:

- Digital projector and zoom lens, 5,500 ANSI lumens; and
- Electric FP screen with handheld remote operation.

Rigging

The ability to hang scenery, masking drapes, curtain tracks, stage lights etc across the auditorium and particularly the stage area. It is envisaged that all steel bars provided will be 'fixed' and not capable of being winched or hoisted up and down. Access equipment will be required to get to the fixed bars safely. Set up likely to include:

- Fixed bars (approx: 15 no.) across the auditorium and stage, perhaps a couple following the outer wall line;
- Curtain (tab) tracks x 2, with central overlap, suspended from fixed bars;



- Draperies, which will include a full set of black wool serge masking curtains, legs and borders; and
- Access equipment, including a 3 part ladder and a mini Zarges castored zip-up tower.

Seating

Telescopic: Seating system for the main bank of tiered seating in mobile units. A front row of loose matching chairs with mobile storage dollies. Fixed gallery seats will be provided to match (including wheelchair provision). Seating to include:

- Telescopic mobile units including palette trucks with motorised deployment;
- Fixed matching gallery seats; and
- Loose chairs and storage.

3.6 Cafe/Bar and Catering Facilities

General

A detailed fit out specification will be agreed with LBRuT following further clarification on end user requirements and the general catering strategy for the building.

3.7 General Communications

Public Address and Intercom Systems

A public address system will be installed throughout the building. An intercom system will be provided for backstage areas to main foyer/reception, dressing rooms cafe/bar.



4. BUILDING CONSTRUCTION

4.1 Substructures

The following provides a summary of the proposed substructure design:

Foundations

The foundations to the building will comprise piled foundations. A retaining wall will be provided to form the outer wall of the lower ground floor local to the Network Rail ramp.

Lower Ground Floor

The lower ground floor will comprise of a reinforced concrete construction.

Ground Floor

The ground floor will be formed as a suspended feinforced concrete slab; supported by columns and walls over the lower ground floor area, and on piles and pile caps in the 5-storey area.

Floor Duct

An under floor duct will be provided below the performance hall to transfer services from the Lower Ground Floor/Basement plant room.

4:2 Superstructure

The following provides a summary of the proposed superstructure design:

Frame

The auditorium will be constructed using structured steel columns and beams to provide a column-free auditorium. The roof of the auditorium will comprise a concrete metal deck slab.

The walls of the theatre will be formed in cavity masonry.

The 5-storey area of the building will comprise of a reinforced concrete frame with slabs spanning between columns: The lift shaft and staircase walls will be constructed in reinforced concrete.

Loading Criteria

The following imposed live loads will be accounted for in the design of the structure; in accordance with BS6399; Part 1: 1996.

Basement/Lower Ground Floor:

Dasement Lower Cround Floor.	
Plant and storage areas	5.0 kN/m²
Dressing rooms	2.0 kN/m²
Corridors	3:0 kN/m²

Ground Floor:

Auditorium including stage area	5.0 kN/m²
Entrance foyer, corridors, stairs	4.0 kN/m²
Toilet/changing facilities	2.0 kN/m²

'First Floor:'

Fixed and flexible seating to auditorium	4.0 kN/m²
Café/Bar, lobby, stairs	4.0 kN/m²
Balcony to Café/Bar area	4.0 kN/m²



Horizontal load to balcony balustrading	and/or	1.5 kN/m run 1.5 kN/m²
Second Floor: Terrace/roof to auditorium/conservatory Roof of auditorium/allowance for rigging, etc Multi-purpose rooms, corridors, stairs Kitchens and tollets	·	4.0 kN/m² 1.5 kN/m² 4.0 kN/m² 2.0 kN/m²
Third Floor: Roof of conservatory Multi-purpose rooms, corridors, stairs Toilets		3.0 kN/m² 4.0 kN/m² 2.0 kN/m²
Fourth Floor: Multi-purpose rooms, corridors, stairs, balconies Toilets		4.0 kN/m² 2.0 kN/m²
Roof: Maintenance only		0.75 kN/m²

4.3 External Walls

The following provides a summary of the proposed external wall design/materials.

Facing Bricks

Main facing brickwork to comply with the requirements of the relevant planning condition and:

- Be manufactured from natural clay in accordance with BS3921
- Moisture absorption and durability appropriate for site exposure.

Concrete Blocks

Blockwork to inner leaf of building to be medium density with crushing strength and thickness as required by Structural Engineer. Internal leaf to receive board finish.

Cavity Wall Insulation

Cavity wall insulation to achieve a minimum U valve to meet Building Regulation requirements.

Render

Rendered finishes to be acrylic coloured onto blockwork outer leaf wall

4.4 Windows and External Doors

Windows, external screens and external doors to be composite or aluminium framed. Windows and doors will achieve a minimum U valve to meet Building Regulation requirements.

Curtain Walling

Curtain walling design and finish to Planning Authority requirements. Glazing to incorporate safety glass as required by current Building Regulations

Windows



Composite or Aluminium frames, design and finish to Planning Authority requirements. Glazing to incorporate safety glass as required by current Building Regulations

Opening windows and doors to be fitted with trickle ventilation if required to meet current Building Regulations.

The degree to which windows may be opened will be determined by the natural ventilation requirements of each room with the overriding requirement for safety and prevention of persons falling from windows. It may be advisable to have fixed glazing due to the acousticate requirements and the ventilation strategy.

External Doors

All external doors are to be aluminium framed.

4.5 Roofs

Terrace

This area is to be provided with concrete paving.

Conservatory and Main Roof

Applied water proofing system with 20 year warranty.

Access rooflight to be provided within corridor below main roof area.

Rainwater Goods

Rainwater gutters and down pipes to be uPVC:

4.6 Internal Construction

Internal Walls

Exposed internal blockwork walls within Basement/Lower Ground Floor areas to be painted:

Partitions to remaining internal walls to be constructed from metal studwork with plasterboard finish:

Skirtings

Skirtings are to be painted midf with additional site painted finish, 150 mm high x 19 mm thick; pencil radius top profile. OR 150mm high tiled skirting where floor tiles are present.

Window Boards

Window/boards are to be 19 mm thick painted mdf, with additional site painted finish, pencil radius top profile

Ceilings - Entrance & Foyer

Plasterboard suspended ceiling on MF system to the entrance and 1st floor foyer areas...

Ceilings - Auditorium

Plasterboard suspended ceiling on MF system.

Ceilings - Other Areas

Ceiling tiles on MF system



4.7 Internal Doors, Hatches and Ironmongery

Internal Doors

Locks to be provided to both internal and external doors suited to clients requirements.

All doors to be solid core, painted finish, with vision panels to all doors except, Hall Stores, general stores, service rooms and WC's except as required by Regulations. All doors are to be lockable.

4.8 Floor Finishes

Entrance and Fover

To be ceramic tiles with matwell, metal staircase to 1st floor level to have timber treads

Toilets, Café/Bar, Kitchen and Stores

To be slip resistant vinyl sheet, complete with sit-in PVC skirting welded to vinyl sheet flooring.

Conservatory, Multi-purpose Spaces and Dressing/Changing Rooms

To be slip resistant vinyl sheet to approval with mdf skirting.

Auditorium

To be semi-sprung timber flooring. – Harlequin or equal approved.

Main Staircase

Main Staircase durable non-slip vinyl finishes with contrasting nosings

4.9 Sanitary Fittings

<u>Toilets</u>

To be provided with required WCs, urinals and basins.

Changing Rooms

To be provided with required WCs, basins, and shower units.

Multi-purpose Rooms

To be provided with required basins (2 no. rooms).

4.10 Other Fittings

Dressing Rooms

To be fitted with vanity tops and mirrors.

Toilets and Changing Rooms

To be fitted with mirrors.

Café/Bar and Bar/Kitchen

To be fitted out in accordance with specification agreed between St James and LBRuT.



Reception and Sales Desks
To be fitted out in accordance with specification agreed between St James and LBRuT.



E: Richmond Council comments dated 19.07.13 incorporated 23.07.13

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Buller Welsh

Chartered Architects

42-48 Great Portland Street, London W. W. 7NB Tel: 020 7636 7953 www.bullerwelsh.com

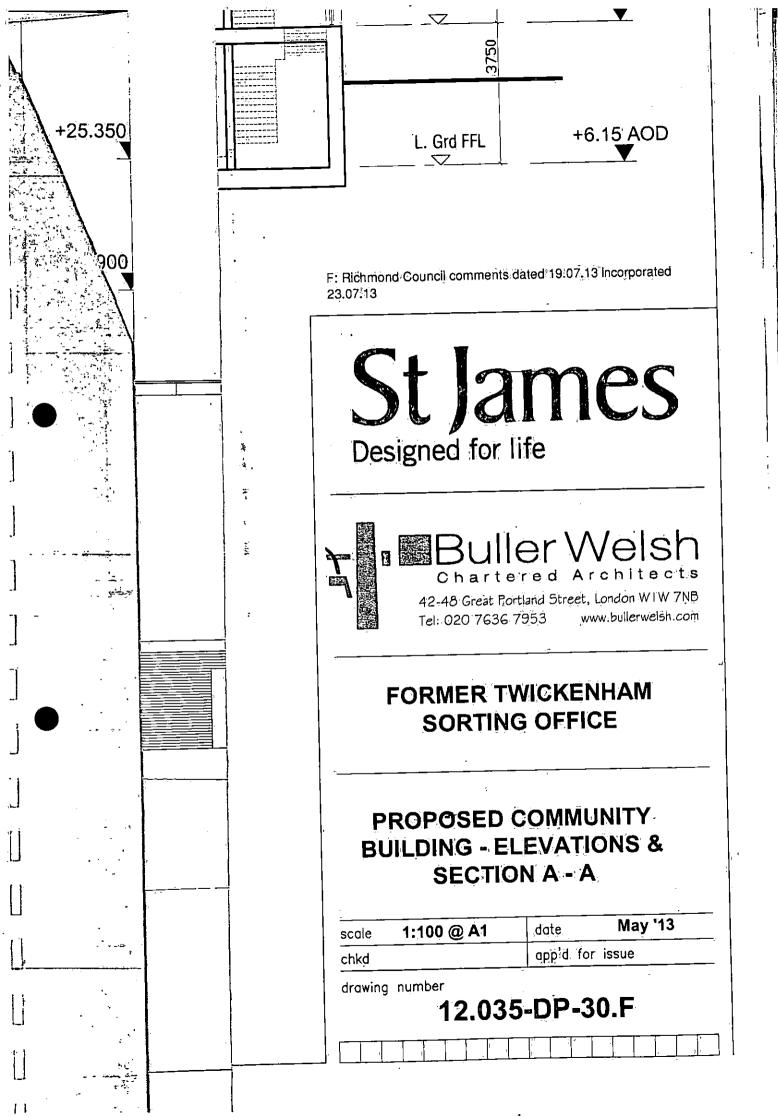
FORMER TWICKENHAM SORTING OFFICE

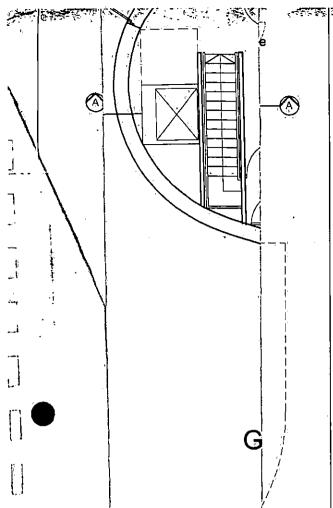
PROPOSED COMMUNITY BUILDING ELEVATIONS

scale:	1:100 @ A1	date	May '13
chkd		app'd fo	r issue

drawing number

12.035-DP-20.E





F.: Richmond Council comments dated 19:07:13 incorporated 23:07:13

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PROPOSED COMMUNITY BUILDING

L. GROUND & GROUND FLOOR PLANS

scale	1:100 @ A1	date	May '13
chkd		app'd f	or issue

drawing number

12.035-DP-10.F

23.07.13 Designed for life Tel: 020 7636 7953

EliRichmond Council comments dated 19:07.13 incorporated

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PROPOSED COMMUNITY BUILDING

FIRST, SECOND & THIRD **FLOOR PLANS**

scale	1:100 @ A1	date	May '13
chkd		app'd for issue	

drawing number

12.035-DP-11.E

D: Richmond Council comments dated 19.07.13 incorporated 23.07.13

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PROPOSED COMMUNITY BUILDING

FOURTH FLOOR & ROOF PLANS

scale	1:100 @ A1	date	May '13
chkd		app'd fo	r issue

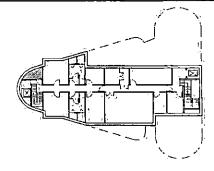
drawing number

12.035-DP-12.D

APPENDIX 2

Combined General & M&E Room Data Sheets

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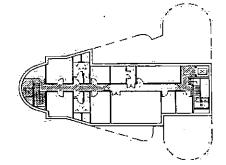
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Lower Ground Floor

KEY PLAN

Room Name	Accessible WC	Approx. Area / Ceiling He	eight : 5.2m² / 2.4m	Room No. LG.01
MECHANICAL				
Winter Temp (*C ± *C)	21 +/- 2	Summer Temp (*C± *C)	Uncontrolled	,
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Transient Space	-
Air Changes/ Hour	6-10 AC/HR	1		
DHW/ CWS/ Waste/ Vending	DHW/ CWS & Waste	e for WC & Basin	-	•
Environmental Control System	LST Radiator Heatin	g from VRF Heat Pump		
LECTRICAL				
Ļighting	Downlights		·	=
Illumination Levels	100 lux			
Emergency Lighting	To meet BS 5266-1			
Data/Télephone	No			
Small Power	No		4	
Equipment	Handrier / disabled	alarm)		·
Fîre Alarm	Fire Detection and A	Alarm installed to meet BS 5839	1 (L1) and DDA requirem	nents
PA System	Ño	•		
Special Supplies	Ν̈́ο			
TV/, Radio Outlets	No			
Audio/ Visual Systems	No		•	
Audio Systems	No.			
Access Control	No			
ĊĊŢV	No.			
intruder Älarm	No			
Specialist Systems	disabled call alarm	· · · · · · · · · · · · · · · · · · ·		
ACOUSTIC PERFORMANCE			2 1 2 1 1 1 1 1 1	
Upper Limit Indoor Ambient N			NR 45	
FINISHES		TO LEGISLA		
	Slip resistant vinyl s	heet with welded pvc skirting.	Floor gully to be provided	•
Walls	Fully tiled			
Ceiling		tem, painted plasterboard		
Fitings / Sanitaryware	White Sanitaryware 'pivette' door or sin	Standard Doc M installation ai	nd accessible shower paci	k. Leaderflush bi-fòld
	:			Date : 26.02:141
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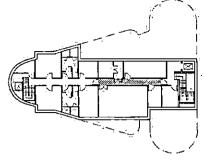
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Lower Ground Floor

KEY PLAN

Lower Ground Floor		÷	KEY PLAN			
Room Name	Lobby x (2)	Approx. Area / Ceiling He	eight: 39m² / 2.4m	Room No. LG.02		
MECHANICAL						
Winter Temp (°C ± °C)	19 +/- 2	Summer Temp (°C ±'°C)	Uncontrolled			
Humidity Cont (± %RH)	Uncontrolled	Máx Occupancy Level	Transient space			
Air Changes/ Hour	None					
DHW/ CWS/ Waste/ Vending	None					
Environmental Control System	VRF Fan Coil Casset	te heating		·		
ELECTRICAL						
Lighting	Downlights	· · · · · · · · · · · · · · · · · · ·	-			
Illumination Levels	100 lux					
Emergency, Lighting	To meet BS 5266-1					
Data/Telephone	No		· · · · · · · · · · · · · · · · · · ·			
Small Power	1 No TSSO					
Equipment	No					
Fire Alarm	Fire Detection and	Alarm installed to meet BS 5839)-1 (L1) and DDA require	ments'		
PA System	No					
Special Supplies	No			·		
TV/ Radio Outlets	No					
Audio/ Visual Systems	No.			·		
Audio Systems	No		,			
Access Control	No					
CCTV	No			·		
Intruder Alarm	No	_				
Specialist Systems	No					
ACOUSTIC PERFORMANCE						
Upper Limit Indoor Ambient N	oise Level - Equivalent NR		NR:40			
FINISHES						
Floor	Slip resistant vinyl	sheet with 150mm x 19mm pair	nted mdf skirting	<u> </u>		
Walls	Painted Fairfaced	blockwork				
Ceiling	Suspended M/F sy	stem, painted plasterboard				
Fitings /.Sanitaryware	Platform Lift					
*				Date : 26.02.14		
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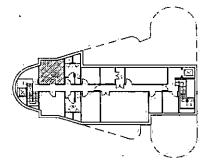


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Lower Ground Floor			KEY PLAN			
Room Name	Corridor		Approx. Area / Ceiling Height: 12m² / 2.4m Room No. LG.03			
MECHANICAL						
Winter Temp (‡C±°C)	19 +/- 2	Summer,Temp (†C±†C)	Uncontrolled			
Humidity Cont (± %RH)	Uncontrolled:	Max Occupancy Level	Transient space			
Air Changes/ Hour	None					
DHW/ CWS/ Waste/ Vending,	Ñone					
Environmental Control System	VRF Fan Coil Casse	tte heating		-		
ELECTRICAL TO SEE THE SECOND						
Lighting.	Downlights					
Illumination Levels	100 lux					
Emergency Lighting	To meet BS 5266-1	l.		-		
Data/Telephone	No _		.			
Small Power	1 No TSSO					
Equipment	Ñò		_	<u> </u>		
Fire Alarm	Fire Detection and	Alarm installed to meet BS 5839	-1 (L1) and DDA requires	ments		
PA System	· No					
Special Supplies	No	· <u>-</u>				
TV/ Radio Outlets	Ñô					
Audio/ Visual Systems	Ño					
Audio Systems	No					
Access Control	Ño	•		•		
ÇCTV.	No.		_			
Intruder Alarm	No			•		
Specialist Systems	Ño					
ACOUSTIC PERFORMANCE						
Upper Limit Indoor Ambient Noise Level - Equivalent NR		R	NR 40			
FINISHES						
Floor	Slip resistant vinyl	sheet with 150mm x 19mm pain	ited mdf skirting	_		
Walls	Painted Fairfaced	Painted Fairfaced blockwork				
Ceiling	Suspended M/F sy	Suspended M/F system, painted plasterboard				
Fitings / Sanitaryware	No			-		
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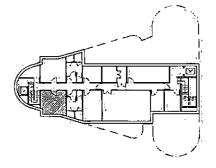


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n	E 1	г. ь	~ .

Lower Ground Floor			KEY PLAN		
Room Name Dressing Room 1		Approx. Area / Ceiling Ho	Approx. Area / Ceiling Height: 18m² / 2.4m Room No. LG.04		
MECHANICAL					
Winter Temp (°C ± °C)	21/+/- 2	Summer Temp (°C ± °C)	24'+/- 2	•	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Ĩ0		
Air Changes/ Hour	10 AC/HR				
DHW/ CWS/ Waste/ Vending	DHW/ CWS & Waste	for WC & Basins			
Environmental Control System	VRF Fan Coil Cassett	e heating and cooling		- · · · -	
ELECTRICAL C					
Lighting	Downlights	:			
Illumination Lévels	100 lux				
Emergency Lighting;	To meet 8S 5266-1				
Data/Telephone	2 x RI45 (Cat 5e) = 1	provided for use a data, telepho	one or internal intercom		
Small Power	3 No TSSO				
Equipment	No.				
Fire Alarm	Fire Detection and A	Narm installed to meet BS 5839	-1 (L1) and DDA requirem	ents	
PA System	No			·	
Special Supplies	Ńο				
TV/ Radio Outlets	No				
Audio/ Visual Systems	No		_		
Audio Systems	No		-		
Access Control	No				
сстv	No	-		_	
Intruder Alarm	No		•		
Specialist Systems	Nō				
ACOUSTIC PERFORMANCE					
Upper Limit Indoor Ambient N	oise Level - Equivalent NR		NR 40-		
FINISHES					
Floor	Slip resistant vinyl s	heet with 150mm x 19mm pain	ited mdf skirting		
Walls:	Painted Fairfaced bl	ockwork / rc			
Ceiling	Suspended M/F syst	tem, painted plasterboard			
Fitings / Sanitaryware	1 whb with mirror o	ver. Make-up tops: Lockers.			
· _	<u></u>		<u> </u>	Date : 26.02.14	
				Revision 8	



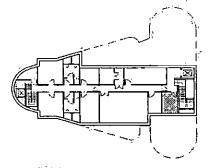
Community Building

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Lower Ground Floor

KEY PLAN

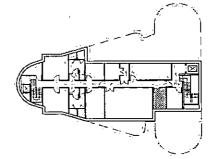
Room Name	Dressing Room 2	Approx. Area / Ceiling He	eight: 18m²/2.4m	Room No. LG.05
MECHANICAL				
Winter Temp (°C ± °C)	21 +/- 2	Summer Temp (°C ± °C)	24 +/- 2	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	10	
Air Changes/ Hour	10 AC/HR			
DHW/ CWS/ Waste/ Vending	DHW/ CWS & Waste for	or WC & Basins	·	
Environmental Control System				
ELECTRICAL				
Lighting	Downlights*			
Illumination Levels	100 lux		•	
Emergency Lighting	To meet BS 5266-1	-		, -
Data/Telephone	2 x RJ45 (Cat 5e) - pro	ovided for use a data, telepho	one or internal intercom	
Small Power	3 No TSSO			
Equipment	Nó			
Fire Alarm	Fire Detection and Ala	rm installed to meet BS 5839	-1 (L1) and DDA requiren	nents
PA System	Ņo			-
Special Supplies	No:			
TV/ Radio Outlets	No			
Audio/ Visual Systems	No			
Audio Systems	No			
Access Control	Ņo			
ссту	No	1		
Intruder Alarm	No			
Specialist Systems	No	÷		
ACOUSTIC PERFORMANCE (3)				
Upper Limit Indoor Ambient N	loise Level - Equivalent NR	-	NR 40	
FINISHES & TOP				
Floor	Slip resistant vinyl she	et with 150mm x 19mm pain	ted mdf skirting	
Walls	Painted Fairfaced bloo	ckwork / rc		
Ceiling	Suspended M/F syste	m, painted plasterboard		
Fitings / Sanitaryware	1 whb with mirror ove	er. Make-up tops. Lockers.		
· · · · · · · · · · · · · · · · · · ·			_	Date : 26.02.14
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Lower Ground Floor		KEY PLAN		
Room Name	Tech Room	Approx. Area / Ceiling He	eight: 10m²,/3.3m	Room No. LG.06
MECHANICAL				
Winter Temp (°C ± °C)	25 +/- 2	Summer Temp (°C ± °C)	Uncontrolled	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	1	_
Air Changes/ Hour	5 AC/HR extract only			
DHW/ CWS/ Waste/ Vending	None			_
Environmental Control System	VRF Wall Mounted Fan	Coll cooling		
ELECTRICAL				
Lighting	Linear flourescent			
Illümination Levels	150 lux		-	-
Emergency Lighting	To meet BS 5266-1	<u>-</u> .	- -	_
Data/Telephone	4 x RJ45 (tbc) (Cat 5e)	- provided for use a data; te	lephone or internal interc	com
Small Power	5'No TSSO	· · ·		
Equipment	твс			
Fire Alarm.	Fire Detection and Alar	m installed to meet BS 5839	-1 (L1) and DDA requirem	nents
PA System	No			
Special Supplies	No			
TV/ Radio Outlets	No			
Audio/ Visual Systems	ТВС			
Audio Systems	No			
Access Control	No			
cctv	Ño	•		
Intruder Alarm	No			
Specialist Systems	No			•
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient Noi			ÑR 35	
FINISHES A CONTROL				
Floor	Slip resistant vinyl shee	et with 150mm x 19mm pair	nted mdf skirting	<u>.</u>
Walls	Painted Fairfaced bloc	kwork / rc		•
Ceiling	Painted conc. soffit			
Fitings / Sanitaryware	Ñο			
			<u></u>	Date : 26.02.14
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Lower Ground Floor KEY PLAN

Room Name.	Electrical Plant	Approx. Area / Ceiling He	ight: 8m²/3,3m	Room No. LG.07
MECHANICAL CONTRACTOR				
Winter Temp (*C ± *C)	Uncontrolled	Summer Temp (*C ± *C)	Uncontrolled	=
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Unoccupied	
Air Changes/ Hour	None:			
DHW/ CWS/ Waste/ Vending	None:			
Environmental Control System	None			
ELECTRICAL				
Lighting	Linear flourescent			
Illumination Levels	150 lux		- "-	
Emergency, Lighting	To meet BS 5266-1	-		
Data/Telephone	No		•	
Small Power	1 No TSSO			
Equipment	As required		•	
Fire Alarm	Fire Detection and Alarm	installed to meet BS 5839	-1 (L1) and DDA requireme	nts
PA System	No			
Special Supplies	No			
TV/ Radio Outlets	No			
Audio/ Visual Systems	No		•	
Audio Systems	No			
Access Control	Ŋò			
CCTV'	Ño .			
Intruder Alarm	Ν̈́ο·			
Specialist Systems	No	•	=	
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient Noise	and the second second		TBC	·
FINISHES.				
Floor	Slip resistant vinyl sheet	with welded pvc skirting	·	
Walls	Painted Fairfaced blocky	vork / rc		
Ceiling	Painted conc. soffit			
Fitings / Sanitaryware	No ·			
			· -	Date : 26.02.14
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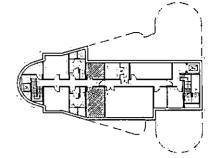
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Lower Ground Floor KEY PLAN

Room Name	Mechanical Plant	Approx. Area / Ceiling He	eight: 44m²/3.3m	Room No. LG:08
MECHANICAL				
Winter Temp (°C ± °C)	Uncontrolled	Summer Temp (°C ± °C)	Uncontrolled	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Unoccupied	
Air Changes/ Hour	None			
DHW/ CWS/ Waste/ Vending	CWS'& Waste for plant	ti		
Environmental Control System				
ELECTRICAL				
Lighting	Linear flourescent			
Illumination Levels	150 lûx;		_	
Emergency Lighting	To meet BS 5266-1			_
Data/Telephone	4 x RJ45 (Cat 5e) - pro	ovided for use a data, telepho	one or internal intercom	•
Small Power	1 No TSSO			
Equipment	As required	· <u>· · · · · · · · · · · · · · · · · · </u>		
Fire Alarm	Fire Detection and Ala	rm installed to meet BS 5839	-1 (L1) and DDA requireme	ents
PA System	No			
Special Supplies	No .			
TV/ Radio Outlets	Ño			
Audio/ Visual Systems	No			
Aúdio Systems	No			
Access Control	No			
ссту	No			
Intruder Alarm	Nö			
Specialist Systems	No			
ACOUSTIC PERFORMANCE	E-Contract			
Upper Limit Indoor Ambient N	oise Level - Equivalent NR	·	твс	
FINISHES				
Floor	Slip resistant vinyl she	et with welded pvc skirting	- 	·
Walls	Painted Fairfaced bloc	kwork / rc		
Ceiling	Painted conc. soffit	<u></u>		·
Fitings / Sanitaryware	No ,	·		••
				Date : 26.02.14 Revision C



Community Building

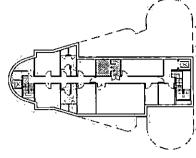
Lower Ground Floor		•	KEY PLAN	
Room Name	Stores x 2	Approx. Area / Ceiling He		Room No. LG.09
MECHANICAL				
Winter Temp (°C ± °C)	Uncontrolled	Summer Temp ("C ± "C)	Uncontrolled	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Unoccupied	
Air,Changes/ Hour,	Noné.			
DHW/ CWS/ Waste/ Vending	None;			
Environmental Control System	None			
ELECTRICAL F				
Lighting	Linear flourescent			•
Illumination Levels	100 lux			
Emergency Lighting	To meet BS 5266-1			
Data/Telephone	No			•
Small Power	1 No TSSO			
Equipment	No			
Fire Alarm	Fire Detection and	Alarm installed to meet BS 5839	-1 (L1) and DDA requirer	nents
PĀ System	Nò	,		
Special Supplies	Ño			
TV/ Radio Outlets	No		_	
Audio/ Visual Systems	No			
Audio Systems	No		-	
Access Control	Ņģ			·
CCTV	No		- -	
Intruder Alarm	No	•		
Specialist Systems	No_			
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient Nois		•	ÑÁ,	
FINISHES				
Floor	Slip resistant vinyl	sheet with welded pyc skirting		
Walls	Painted Fairfaced b	olockwork / rc	•	
Ceiling	Painted conc. soffi			
Fitings / Sanitaryware	Services connectio	ns only for catering equipment		
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Lower Ground Floor



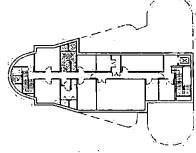
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KEY.	м	м	N

	Refuse	Approx. Area / Ceiling He	aBiir i Taiii Alaisiii	Room No. LG.10
MECHANICAL				
Winter Temp (°C ± °C)	Uncontrolled.	Summer Temp ("C ± "C)	Uncontrolled	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Unoccupied	
Air Changes/ Hour	6 AC/HR			
DHW/ CWS/ Waste	Floor drain			
Environmental Control System	None			
ELECTRICAL	KAZELINE.			
Lighting:	Linear flourescent			
Illumination Levels	100 lux			
Emergency Lighting	To meet BS 5266-1			
Data/Telephone	No			
Small Power	No			
Equipment	No			
Fire Alarm	Fire Detection and A	Alarm installed to meet BS 5839	1 (L1) and DDA requireme	ents.
PA System	No	•		
Special Supplies	No			
TV/ Radio Outlets	No:			
Audio/ Visual Systems	Ņō			
Audio Systems	No	•		
Access Control	No			•
ссту	Йо			
Intruder Alarm	No			•
Specialist Systems	No			
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient No	ise Level - Equivalent NR	<u> </u>	NA	
FINISHES				SO THE WAY
Floor,	Screed finish / appl	lég séalant		i
Walls	Painted Fairfaced b	lockwork / rc		
Ceiling	Painted conc. soffit			
Fitings / Sanitaryware	No			
				Date : 26.02.14
				Revision C

St James

Community Building

Former Twickenham Sorting Office



Revision B

Former (wickennam Sorti	ng:Office			7-5
Lower Ground Floor		<u>.</u>	KEY PLAN	•
Ròom Name:	Female Toilet & Shirs	Approx. Area / Ceiling He	aight : 13m² / 2,4m	Room No. LG 12
MECHANICAL				
Winter Temp (°C ± °C)	19 +/- 2	Summer Temp (*C ± *C)	Uncontrolled	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Transient Space	
Air Changes/ Hour	6-10 AC/HR			
DHW/ CWS/ Waste/ Vending	DHW, CWS & Waste for	WC, Basin & Showers		-
Environmental Control System	Radiator Heating from V	/RF Heat Pump		
ELECTRICAL				
Lighting	Downlights	•		-
Illumination Levels	100 lux			
Emergency Lighting	To meet BS 5266-1			-
Data/Telephone	No			
Small Power	No			
Equipment	- Handrier			
Fire Alarm	Fire Detection and Alari	m installed to meet BS 5839	-1 (L1) and DDA requiren	nents
PA System	No			
Special Supplies	No			
TV/ Radio Outlets	No .		-	
Audio/ Visual Systems	No			
Audio Systems	No			
Access Control	No			-
ccīv	No			
intruder Alarm	No			
Specialist Systems	No			
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient Nois	e Level - Equivalent NR	-	NR 45	
FINISHES OF				
Floor	Slip resistant vinyl shee	t with welded pvc skirting		
Walls	Painted Fairfaced block	work		
Ceiling	Suspended M/F system	**		
Fitings / Sanitarýware	White sanitaryware, 1 Mirrors above whb's	No we cubicle, 1 whb & 1 No	shower screen & tiled sl	hower: Ceramic tiling /
				Date : 26.02.14
		•		

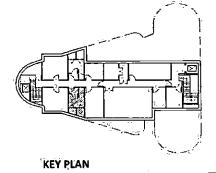
Community Building

Former Twickenham Sorting Office

Lower Ground Floor

Fitings / Sanitaryware

mirrors above whb's

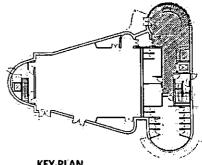


《1888年初》中,《中华公司的《西班通》(1888年)			ight: 13m² / 2.4m	Room No. LG:13
MECHANICAL				
Winter Temp (*C ± *C)	19 +/- 2	Summer Temp (*C ± *C)	Uncontrolled	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Transient Space .	
Air Changes/ Hour	6-10 AC/HR			
DHW/ CWS/ Waste/ Vending	DHW, CWS & Waste for V	WC, Basin & Showers		
Environmental Control System	Radiator Heating from VP	RF Heat Pump		
ELECTRICAL A STATE OF THE STATE				
Lighting	Downlights	•		
Illumination Levels	100 lux			
Emergency Lighting	To meet BS 5266-1			
Data/Telephone	No			
Small Power	No			
Equipment	Handrier		 	
Fire Alarm	Fire Detection and Alarm	installed to meet BS 5839	-1 (L1) and DDA requiremen	nts
PA System	No			
Special Supplies	No			
TV/ Radio Outlets	No			
Audio/ Visual Systems	No			
Audio Systems	No			
Access Control	No			·
ссту	No	<u> </u>		
Intruder Alarm	No	· · ·		
Specialist Systems	No			
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient Noise			NR 45	
FINISHES				多数的
Floor	Slip resistant vinyl sheet with welded pvc skirting			
Walls	Painted Fairfaced blockw	vork		
Ceiling	Suspended M/F system,	painted plasterboard		

White sanitaryware, 1 No wc cubicle, 1 whb & 1 No shower screen & tiled shower. Ceramic tiling /

Date: 26.02.14

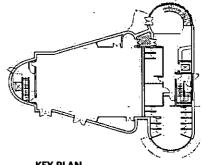
Community, Building



Ground Floor			KEY PLAN	
Room Name	Foyer	Approx. Area / Ceiling He	eight: 73m² / varies	Room No. G.01
MECHANICAL				
Winter.Temp (*C ± *C)	19 +/- 2	Summer Temp (*C ± *C)	Uncontrolled	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Transient Space	
Air Changes/ Hour	None	•		
DHW/, CWS/ Waste/, Vending	None		-	
Environmental Control System	VRF Fan Coil Casse	tte Heating		
ELECTRICAL				
Lighting	Downlights,			
Illumination Levels	150 lux with contro	of for low light levels during perfo	ormances	
Emergency Lighting	To meet BS 5266-1			
Data/Telephone	2 x RJ45 to recepti	on (Cat Se) - provided for use a	data, telephone or interr	nal intercom
Small Power	1 No TSSO:			
Equipment:	No			
Fire Alarm	Fire Detection and	Alarm installed to meet BS 5839	-1 (L1) and DDA requiren	nents
PA System	Yes & Control poin	t	•	
Special Supplies	No			-
TV/ Radio Outlets	No			
Audio/ Visual Systems	TBC			
Audio Systems	No			
Access Control	Ño	•		
ccīv:	Yes			
Intruder Alarm	PIR Sensors & Con	trol panel		
Specialist Systems	No	- "		
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient N	loise Level - Equivalent NF	₹:	NR 40 or as required to Regulatons Approved	o comply with Building Doc. E
FINISHES EASTER IS TO A		THE PROPERTY OF THE		
Floor	Ceramic tiling with	150mm x 19mm painted mdf sk	sirting	
Walls	Painted plasterboa	ard on blockwork / metal stud		
Ceiling	Suspended M/F sy	stem, painted plasterboard with	acoustic tiles	
Fitings / Sanitaryware	Matwell, metal sta	aircase with timber treads. Recep	otion desk to pc sum	
				, Date : 26.02;14 .Revision B;

Community Building

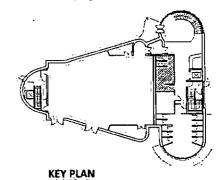
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Ground Floor		KEY, PLAN		
Room Name	Lobby	Approx. Area / Ceiling He	eight: 5m² / 2.4m	Room No. G.02
MECHANICAL A CONTROL	STATES OF A S			
Winter Temp (*C ± *C)	19 +/- 2	Summer,Temp (°C ± °C)	Uncontrolled	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Transient Space	
Air Changes/ Hour	None			_
DHW/ CWS/ Waste/ Vending	None	_		
Environmental Control System	VRF Fan Coil Cassette	Heating'		
ELECTRICAL				
Lighting	Downlights			
Illumination Levels	150 lux	-		
Emergency, Lighting	To meet BS 5266-1	-	<u> </u>	
Data/Telephone	No	<u> </u>		
Small Power	1 No TSSO	<u>-</u>		
Equipment	Ño	<u> </u>		
Fire Alarm	Fire Detection and Ala	rm installed to meet BS 5839	-1 (L1) and DDA requireme	ents
PA System	No			
Special Supplies	No			
TV/ Radio Outlets	Nó			
Audio/ Visual Systems	No			
Audio Systems	No			
Access Control	No	•		
ссту	No			
Intruder Alarm	No			
Specialist Systems	Ñọ			·
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient Noise I			NR 40	
FINISHES				
Floor	Ceramic tiling with 15	0mm x 19mm painted mdf sk	irting	
Walls	Painted plasterboard	on blockwork		
Ceiling	Suspended M/F system	n, painted plasterboard	-	
Fitings / Sanitaryware	No	-		
				Däte : 26.02.14
				Revision B

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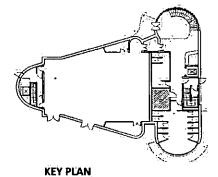


Fround Floor KET PLAN			
Male Toilet	Approx. Area / Ceiling He	eight: 19m²/2.4m	Room No. G:03
19 +/- 2	Summer Temp (†C ± °C)	Uncontrolled	:
Uncontrolled	Max Occupancy Level	Transient Space	-
6-10/AC/HR			
DHW, CWS & Wast	e for WC's & Basins	•	
	•	-	_
Downlights	-		
100 lux	- -		
To meet BS 5266-1			· · ·
No			
No	_		
Handriers .			
Fire Detection and	Alarm installed to meet BS 5839	-1 (L1) and DDA requirem	nents
No			
No	· · · · ·		
No	•		
No.	•		
No		-	
No		_	
Level - Equivalent NR		NR 45	
Slip resistant vinyl	sheet with welded pvc skirting		
Painted plasterboa	rd on blockwork / metal stud		
Suspended M/F sys	tem, painted plasterboard		
White sanitaryware	e, 2 No wc cubicles, 3 whb's & 4	urinals. Ceramic tiling / n	nirrors above whb's
			Date : 26.02:14
	19 +/- 2 Uncontrolled 6-10 AC/HR DHW, CWS & Wastr Radiator Heating for Downlights 100 lux To meet BS 5266-1 No No Handriers Fire Detection and No Sign resistant vinyl Painted plasterboa Suspended M/F sys	19 +/- 2 Summer Temp (*C ± *C) Uncontrolled Max Occupancy Level 6-10 AC/HR DHW, CWS & Waste for WC's & Basins Radiator Heating from VRF Heat Pump Downlights 100 lux To meet BS 5266-1 No No Handriers Fire Detection and Alarm installed to meet BS 5839 No So No No No So No	Male Toilet Approx. Area / Celling Height: 19m² / 2.4m 19 +/- 2 Uncontrolled Max Occupancy Level 6-10 AC/HR DHW, CWS & Waste for WC's & Basins Radiator Heating from VRF Heat Pump Downlights 100 lux To meet BS 5266-1 No No No No No No No No No N

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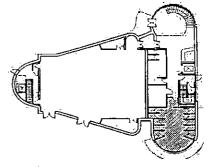
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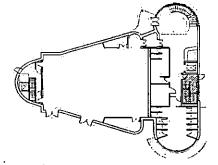
Ground Floor			KEY PLAN	
Room Name	Changing Pl. Facility	Approx. Area / Ceiling He	eight : 12m² / 2.4m	Room No. G.04
MECHANICAL,				
Winter Temp (*C±*C)	21 +/- 2	Summer Temp (*C ± *C)	Uncontrolled	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Transient Space	
Air Changes/ Hour	6-10 AC/HR			
DHW/ CWS/ Waste/ Vending	DHW, CWS & Waste fo	r WC's & Basins	•	
Environmental Control System	Radiator Heating from	VRF Heat Pump:	<u> </u>	
ELECTRICAL				
Lighting	Downlights			
Illumination Levels	100 lux		_	
Emergency Lighting	To meet BS 5266-1			•
Data/Telephone	No			
Small Power	Ńọ	· · · · · · · · · · · · · · · · · · ·		
<u>Equipment</u>	Handrier / disabled ala	ŕm		
Fire Alarm	Fire Detection and Alai	rm installed to meet BS 5839	-1 (L1) and DDA requiren	nėnts
PA System	Ño :			
Special Supplies	, Nö:			
TV/ Radio Outlets	No			
Audio/ Visual Systems	No			
Audio Systems	No			
Access Control	No		-	
ссту_	No		-	,
Intruder Álarm	No			
Specialist Systems	disabled call alarm	- ' - '	•	
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient No	ise Level - Equivalent NR		NR 45	
FINISHES				
Floor	Slip resistant vinyl she	et with welded pvc skirting	- · ·	
Walls)	Painted plasterboard o	on blockwork / metal stud		
Ceiling	The state of the s	n, painted plasterboard		
Fitings / Sanitaryware		eninsular Doc M WC, height floor drain, paper roll, waste		
-			·	Date : 26.02.14 Revision B

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Ground Floor			KEY PLAN			
Room Name	Female Toilet	Approx. Area / Ceiling He	eight: 54m²/2.4m	Room No. G.05		
MECHANICAL						
Winter Temp ("C ± "C)	19 +/- 2	Summer Temp (*C ± *C)	Uncontrolled			
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Transient Space			
Air Changes/ Hour	6-10 AC/HR					
DHW/ CWS/ Waste/ Vending	DHW, CWS & Waste	for WC's & Basins	-			
Environmental Control System	Radiator Heating fro	The state of the s		•		
ELECTRICAL				A CARLOTTE ST		
Lighting	Downlights			1		
Illumination Levels	100 lux					
Emergency Lighting	To meet BS 5266-1					
Data/Telephone	No					
Small Power	No	-				
Equipment	Handriers	\$' 				
Fire Alarm	Fire Detection and	Alarm installed to meet BS 5839	1 (L1) and DDA requiren	nents		
PA System	No					
Special Supplies	No					
TV/ Radio Outlets	No	.		_		
Audio/ Visual Systems	No`			•		
Audio Systems	Ņo	•		-		
Access Control	Ño		 			
cctv.	No		*			
Intruder:Alarm	PIR Sensors			<u> </u>		
Specialist Systems	No			· · · · · ·		
ACOUSTIC PERFORMANCE						
Upper Limit Indoor Ambient Noise	E Level - Equivalent NR		NR 45°			
FINISHES						
Floor	Slip resistant vinyl s	heet with welded pvc skirting		_		
Walls	Painted plasterboa	rd on blockwork / metal stud				
Ceiling	Suspended M/F sys	tem, painted plasterboard	·			
Fitings / Sanitaryware	White sanitaryware	10 No wc cubicles, 6 whb's: Co	eramic tiling / mirrors ab	ove whibi's		
				Date - 25 02 44		
				Date: 26.02:14 Revision B		
	· · · · ·			· - · -		



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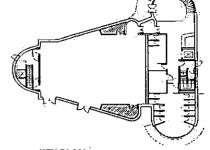
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KEY PLAN

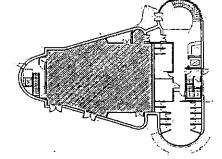
Mil Ecécia			RE1 FLAN	
Room Name	Staircase	Approx. Area / Ceiling He	eight: 13m²/,NA	Room No. NA
MECHANICAL				
Winter Temp (*G±*C)	19 +/- 2	Summer Temp (*Ĉ ± *C)	Üncontrolled	
Humidity Cont (± %RH)	Uncontrolled	Max Occupançŷ Level	Transient Space	
Air Changes/ Hour	None			· · · · · · · · · · · · · · · · · · ·
DHW/ CWS/ Waste/ Vending	None	<u>-</u>	<u> </u>	
Environmental Control System	n None	<u>.</u>		-
LECTRICAL TO SEE				
Lighting	Surface	<u>-</u>		
Illumination Levels	100 lux			•
Emergency Lighting.	To meet BS 5266-1			
Data/Telephone	No			
Small Power	Ño	.		
Equipment	No	· · ·		
Fire Alarm	Fire Detection and	Alarm installed to meet BS 5839	-1 (L1) and DDA requirer	ments
PA System	Yes:	-		
pecial Supplies	No			<u>-</u>
TV/ Radio Outlets	No	<u></u>		
Audio/Visual Systems	No	······································	<u>-</u>	
Audio Systems	Ņó		·	
Access Control	No .			-
CCTV	No			
ntruder Alarm	PIR Sensors	,	·	·
Specialist Systems	No			
ACOUSTIC PERFORMANCE S				
Upper Limit Indoor Ambient N	loise Level - Equivalent NR	}	NR.40	
INISHES				
loor	Carpet finish, contr	rasting nosings, with 150mm x 19		
Valls	Páinted plasterboa	rd on re walls		
Ceiling	Suspended M/F sys	stem, painted plasterboard		
Fitings / Sanitaryware	Conc. Staircase wit	h metal balustrade, glass infill pa	inels: Dry riser, & Class C	pressurisation system
			<u> </u>	<u> </u>
				Date : 26.02.14

St James





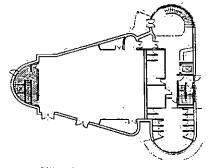
Ground Floor			KEY PLAN			
Room Name	Stores	Approx. Area / Celling He		Room No. G.07		
MECHANICAL CONTROL						
Winter Temp (*C ± *C)	Uncontrolled	Summer, Temp (*C ± *C)	Uncontrolled			
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Unoccupied			
Air Changes/ Hour	None.					
DHW/ CWS/ Waste/ Vending	None.					
Environmental Control System	None					
ELECTRICAL						
Lighting	Linear flourescent					
Illumination Levels	100 lux					
Emergency Lighting	To meet BS 5266-1					
Data/Telephone	No					
Small Power	1 No TSSO					
Equipment	No					
Fire Alarm	Fire Detection and	Alarm installed to meet BS 5839	-1 (L1) and DDA requiren	nents		
PA System	No			-		
Special Supplies	No					
TV/ Radio Outlets	No					
Audio/ Visual Systems	No					
Audio Systems	No-		-			
Access Control	No					
ccīv	No			-		
Intruder Alarm	No			 		
Specialist Systems	No					
ACOUSTIC PERFORMANCE						
Upper Limit Indoor Ambient No	ise Level - Equivalent NR		ÑA.			
FINISHES						
Floor	Vinyl sheet to mate	h Main Hall with welded pvc ski	rting			
Walls	Painted fairfaced b	lockwork				
Ceiling	Suspended M/F sys	tem, painted plasterboard				
Fitings / Sanitaryware				=		
				D-1- 2002 14		
			,	Date : 26.02.14 Revision B		



Community Building

44				
Gro	ind	Fla	or.	

Ground Floor			KEY PLAN			
Room Name	Main Hall	Approx. Area / Ceiling He	E Company	Room Ño. G.08		
MECHANICAL						
Winter Temp (°C ± °C)	21 +/- 2	Summer Temp (°C±°C)	24 +/- 2			
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	317			
Air Changes/ Hour	10 l/s/person					
DHW/ CWS/ Waste/ Vending	None	-	· · · · · · · · · · · · · · · · · · ·			
Environmental Control System	Displacement Vent					
ELECTRICAL						
Lighting	Downlights			-		
Illumination Levels	To suit Theatre spe	cialists requirements				
Emergency Lighting	To meet BS 5266-1					
Data/Telephone	No	 		<u>_</u> _		
Small Power	10 No TSSO					
Equipment	As required by spe	cialist				
Fire Álarm	Fire Detection and	Alarm installed to meet BS 5839	-1 (L1) and DDA requirem	ents · _ · ·		
PA System	Yes		-:-:			
Special Supplies	No			•		
TV/ Radio Outlets	No	· · · · · · · · · · · · · · · · · · ·				
Audio/ Visual Systems	No	*	· .			
Audio Systems	As required by spe	cialist				
Access Control	No	· · · · · · · · · · · · · · · · · · ·	-			
ссту	No	•				
Intruder Alarm	PIR Sensors					
Specialist Systems	Stage lighting			· · -		
ACOUSTIC PERFORMANCE						
Upper Limit Indoor Ambient Nois			NR 30			
FINISHES SA						
Floor		olack non slip vinyl throughout, 1 own chairs to match retractable		ndf skirting. Floor pit and		
Walls:	Painted plasterboa	ard on blockwork. Acoustic doors	to Theatreplan July '13 q	uotation		
Ceiling	painted conc. Soffi	it. Structure to be designed to ac	commodate suspended e	quipment		
Fitings / Sanitaryware		t to walls and ceiling to specialis y '13 güotation. Retractable seat y Seatway Ltd'	ing - Type 'Gallery 2' , Loo			
-	.		· <u>·</u>	Date : 26.02.14		
	-	<u> </u>		Revision B		



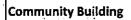
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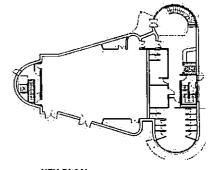
Ground Floor

KEY PLAN

Bround Floor		KEY PLAN			
loom Name	LG access Stair	Approx. Area / Ceiling He	eight: 20m²/4.8m	Room No. G.09	
AECHANICAL TO THE STATE OF THE					
Vinter Temp (°C ± °C)	19 +/- 2	Summer Temp (°C ± °C)	Uncontrolled		
lumidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Transient space		
ir Changes/ Hour	None				
HW/ CWS/ Waste/ Vending	None			··	
nvironmental Control System	None				
LECTRICAL					
ighting.	Surface			-	
llumination Levels	To suit Theatre spe	cialists requirements			
mergency Lighting	To meet BS 5266-1	<u> </u>			
Data/Telephone:	No				
Small Power	10 No TSSO				
quipment:	As required by spec	iálist		t	
Fire Alarm	Fire Detection and	Alarm installed to meet BS 5839	9-1 (L1) and DDA requirer	nenţŝ	
PA System -	Yes				
Special Supplies	No				
TV/ Radio Outlets	No			-	
Audio/ Visual Systems,	No			_	
Audio Systems	As required by spec	cialist			
Access Control .	No				
ECTV	No				
intrûder Alarm	PIR Sensors	· · · · · · · · · · · · · · · · · · ·		· · · ·	
Specialist Systems	Stage lighting	<u> </u>			
ACOUSTIC PERFORMANCE					
Upper Limit Indoor Ambient No	oise Lével - Equivalent NR		NR 30		
FINISHES STATES					
Floor	Slip resistant vinyl	sheet with 150mm x 19mm pain	ted mdf skirting		
Walls	Painted fairfaced b	lockwork			
Ceiling	Suspended M/F, sy	stem, painted plasterboard			
cennip					



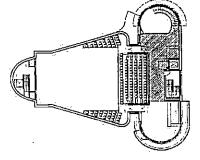




AlliLevels		KEYPLAN		
Room Name	Lift	1		Room No. NA
MECHANICAL				
Winter Temp (*C'± *C)	Uncontrolled	Summer Temp (*C ± *C)	Uncontrolled	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Transient space	
Air Changes/ Hour	None			•
DHW/ CWS/ Waste/ Vending	None			
Environmental Control System	None			
ELECTRICAL				
Lighting	Bŷ lift specialist			
Illumination Levels	By lift specialist			
Emergency Lighting	By lift specialist			
Data/Telephone	To suit requirements	•		
Small Power	To suit requirements		<u> </u>	·
Equipment	To suit requirements	5 ⁱ	·	
Fire Alarm	Fire Detection and A	larm installed to meet BS 5839	-1 (L1) and DDA require	ements
PA System	No	·		
Special Supplies	No			-
TV/ Radio Outlets	No		<u> </u>	
Audio/ Visual Systems	No			-
Audio Systems	No	···		
Access Control	No		•	
ссту	No		_	
Intruder Alarm.	No .			
Specialist Systems	No	,		·
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient Nois	e Level - Equivalent NR		NA.	
FINISHES				
Floor	By lift specialist		•	
Walls	By lift specialist			
Ceiling	By lift specialist			
Fitings / Sanitaryware	Passenger lift to acc	ommodate 8 people and be DE	OA compliant	
		-		Date : 26.02.14
				Revision B

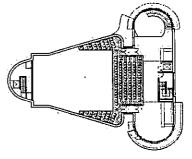




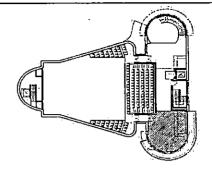


Foyer / lobby 19 +/- 2 Uncontrolled None None VRF Fan Coil Cassette He	Approx. Area / Ceiling He Summer Temp (*C ± *C) Max Occupancy Level	Uncontrolled Transient Space	Room No. 1.01
Uncontrolled None None	Max Occupancy Level	<u> </u>	
Uncontrolled None None	Max Occupancy Level	<u> </u>	
None None		Transient Space	
None	ating		•
<u> </u>	ating		
VRF Fan Coil Cassette He	ating		
	£ 2		
MATERIAL CONTRACTOR OF THE PARTY OF THE PART			
Downlights		-	
100 lux			
To meet BS 5266-1			
2 x RJ45 (Cat 6) - provid	ed for use a data, telephor	ne or internal intercom	,
2 No TSSO			
No			-
Fire Detection and Alarm	installed to meet BS 5839	-1 (L1) and DDA requireme	ents
Yes			
No			
No .			
No			
No			
No			
Yes			·
PIR Sensors			,
· No			
evel - Equivalent NR			
		Regulatoris Approved D	
Carpet	W. Charles and Co.	AC PRINT BUILD DAIL GOOD PARK BOARD DAILE PARK	
	blockwork / metal stud		
		acoustic tiles	-
Sales counter	· · · · · · · · · · · · · · · · · · ·	·	
<u> </u>			
			Date : 26.02.14 Revision B
	To meet BS 5266-1 2 x RJ45 (Cat 6) - provid 2 No TSSO No Fire Detection and Alarm Yes No No No No No No Ves PIR Sensors No Carpet Painted plasterboard on Suspended M/F system,	To meet BS 5266-1 2 x RJ45 (Cat 6) - provided for use a data, telephor 2 No TSSO No Fire Detection and Alarm installed to meet BS 5839 Yes No No No No No Ves PIR Sensors No evel - Equivalent NR Carpet Painted plasterboard on blockwork / metal stud Suspended M/F system, painted plasterboard with Sales counter	To meet B5 5266-1 2 x RJ45 (Cat 6) - provided for use a data, telephone or internal intercom 2 No TSSO No Fire Detection and Alarm installed to meet BS 5839-1 (L1) and DDA requirement yes No No No No No No Ves PiR Sensors No Carpet Painted plasterboard on blockwork / metal stud Suspended M/F system, painted plasterboard with acoustic tiles Sales counter

Community Building



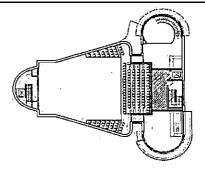
First Floor		KEY PLAN			
Room Name	Balcony	Approx. Area / Ceiling He	elght: 85m²/varies	Room No. 1.02	
MECHANICAL					
Winter Temp (*C ± *C)	21.+/- 2	Summer Temp (*C ± *C)	24.+/- 2		
Humidity Cont (± %RH):	Uncontrolled	Max Occupancy Level	Included in Main Hall		
Air Changes/ Hour	Included in Main Hall				
DHW/ CWS/ Waste/ Vending	None				
Environmental Control System	Displacement ventilatio	on			
ELECTRICAL					
Lighting	Wall mounted				
Illumination Levels	To suit theatre specialis	sts requirements			
Emergency Lighting	To meet BS 5266-1				
Data/Telephone	No				
Small Power	No				
Eguipment	No.				
Fire Alarm	Fire Detection and Alar	m installed to meet BS 5839	1 (L1) and DDA requirem	nents	
PA System	Yes				
Special Supplies	No-				
TV/ Radio Outlets	No			•	
Audio/ Visual Systems	No				
Audio Systems	Ño,				
Access Contról	No				
čст ў	Yes ,				
Intruder Alarm	PIR Sensors				
Specialist Systems	No		,		
ACOUSTIC PERFORMANCE					
Upper Limit Indoor Ambient No	oise Level - Equivalent NR		NR 30		
FINISHES					
Floor	Black non slip vinyl . Co	ntrasting nosings to gangwa	ý steps		
Walls	Painted plasterboard o	n blockwork. Acoustic doors	to Theatreplan July '13 o	uotation	
Ceiling	Painted conc. soffit				
Fitings / Sanitaryware	Fixed seating - Type 'Ga	allery 2' as supplied by 'Huss	ey Seatway Ltd'		
				Date : 26.02.14 Revision B	



Community Building

E		oor.
	-	

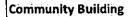
First Floor		KEY, PLAN,		
Room Name	Bar	Approx. Area / Ceiling He	eight::47m²/5.1m	Room No. 1:03;
MECHANICAL				
Winter Temp (*C ± *C)	21:+/-"2	Summer Temp ("C ± "C)	25 +/- 2	
Humidity Cont (± %RH)	Uncontrolled.	Max Occupancy Level	50	
Air Changes/ Hour	10 l/s/person	2		
DHW/ CWS/ Waste/ Vending	DHW, CWS & Wast	e for sink and drinks machines		
Environmental Control System		tte Heating and Cooling	 -	_
ELECTRICAL				
Lighting	Downlights / penda			-
Illumination Levels	100 lüx			-
Emergency Lighting	To meet BS 5266-1			
Data/Telephone	2 x RJ45 (Cat 6) - I	provided for use a data, telephor	ne or internal intercom	
Small Power	5 No TSSO		•	
Equipment	As required by bar	fit out		
Fire Alarm	Fire Detection and	Alarm installed to meet BS 5839	-1 (L1) and DDA require	ments
PA System	Yes			
Special Supplies	No			
TV/ Radio Outlets	Containment only		·_	
Audio/ Visual Systems	твс	•		
Audio Systems	No:			
Access Control	No.	 -		
ссту	Yes			
Intruder Alarm	PIR Sensors			
Specialist Systems	Ño	<u> </u>	-	
ACOUSTIC PERFORMANCE				
Upper Limit Indoor, Ambient N	loise Level - Equivalent NF		NR 40 or as required Regulatons Approved	to comply with Building Doc. E
FINISHES				
Floor	Carpet	- 		.
Walls .	Painted plasterboa	ard on blockwork / métal stud	<u> </u>	
Ceiling	Suspended M/F sy	stem, painted plasterboard with	acoustic tiles	<u>-</u>
Fitings / Sanitaryware	Bar serving area a	nd back bar to be provided, min)	length 5m.	
.		•		Date : 26.02.14: Revision B



Community Building

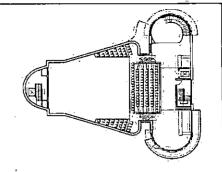
Former Twickenham Sorting Office

First Floor - Upper Leve	<u> </u>			KEY PLAN
Room Name	Control Room	Approx. Area / Ceiling He	eight: 22m²/2.1m	Room No. 1.04
MECHANICAL HAR STATE				
Winter Temp (°C ± °C)	Tbc	Summer Temp (*C ± *C)	Ťbc	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	2 _	
Air.Changes/ Hour	Tbs:			-
DHW/ CWS/ Waste/ Vending	None`			
Environmental Control System	VRF Fan Coil Cassett	e Heating and Cooling		
ELECTRICAL				
Lighting	Wall mounted Task	lighting to control desks		
Illumination Levels .	To suit theatre speci	ialists requirements		
Emergency Lighting	To meet BS 5266-1			-
Data/Telephone	Tbc			
Small Power	To suit theatre spec	ialists requirements		
Equipment:	Tbc			
Fire Alarm	Fire Detection and A	Narm installed to meet B5 5839	-1 (L1) and DDA requiren	nents
PA System	Yės			
Special Supplies	Ţbc .			
TV/,Radio Outlets	No			
Audio/ Visual Systems	Tbc			
Audio Systems	Tbc			
Access Control	No		•	
cctv	Nó			
Intruder Alarm	Ño			
Specialist Systems	No			
ACOUSTIC PERFORMANCE SO				
Upper Limit Indoor Ambient N	loise Level = Equivalent NR		NR 30 or as required to Regulatons Approved	o comply with Building Doc. E
FINISHES & C.				
Floor	Carpet	•		·
Walls	Painted plasterboar treatment 3.6m Lx	d on blockwork. Selectaglaze si 0.9m h	liding glazed screen facing	g auditorium with acoustic
Ceiling	Painted conc. soffit			
Fitings / Sanitaryware	Control desk and eq	uipment to Theatreplan July '1	3 quotation	
<u> </u>		 	.	Date : 26.02.14 Revision B
				

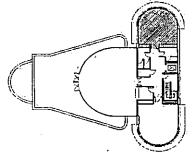


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First Floor KEY PLAN



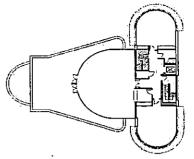
FIRST FIDOR	_		KET PLAIN	-
Room Name	Lobbies	Approx. Area / Ceiling He	eight: 5m² / 2.4m	Room No. 1.05
MECHANICAL V				
Winter Temp (C± C)	21 +/- 2	Summer Temp (*C ± *C)	24 +/- 2	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Transient space	
Air Changes/ Hour			.1	
DHW/ CWS/ Waste/ Vending	None			
Environmental Control System	1			-
ELECTRICAL				
Lighting	Downlights			
Illumination Levels	To suit theatre spe	cialists requirements		-
Emergency Lighting	To meet BS 5266-1			_
Data/Telephone	No			
Small Power	No			-
Equipment	No			
Fire Alarm	Fire Detection and	Alarm installed to meet B\$ 5839	-1 (L1) and DDA require	ments_
PA System	No	-		•
Special Supplies	No			
TV/ Radio Outlets	No.			· · · · · ·
Audio/ Visual Systems	No			•
Audio Systems	No			
Access Control	No	 	-	
ссту	Ŷes			
Intruder Alarm	No			
Specialist Systems	Ņo			
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient N	loise Level - Equivalent Ni	?	NR 30	
FINISHES				
Floor	Carpet		-	
Walls	Painted plasterbo	ard on blockwork. Acoustic door	s to Theatreplan July '13	duotatión
Ceiling	Painted conc. soff	it		
Fitings / Sanitaryware				
				Date : 26.02.14 Revision A



Revision B

Community Building

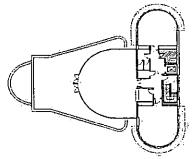
Former Twickenham Sorti	ng Office			
Second Floor			KEY, PLĄŅ	·
Room Name	Multi Purpose Rm 2	Approx. Area / Ceiling He	ight: 47m² / 2.4m	Room No. 2.01
MECHANICAL				
Winter Témp (*C ± *Ć).	21;+/- 2	Summer Temp (*C ± *C)	24 +/- 2	•
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	30	
Air Changes/ Hour	10 l/s/person	1		
DHW/ CWS/ Waste/ Vending	None			
Environmental Control System	VRF Fan Coil Cassette I		-	
LECTRICAL				
Lighting	Modular flourescent lu	minaires		
Illumination Levels	350 lux			
Emergency Lighting	To meet BS 5266-1			
Data/Telephone	4 x RJ45 (Cat 6) - prov	ided for use a data, telephor	ne or internal intercom	
Small Power	5 No TSSO	··· - · · · · · · · · · · · · · · · · ·		
Equipment.	No			
Fire Alarm	Fire Detection and Alar	m installed to meet BS 5839	1 (L1) and DDA requirem	nents:
PA System	No		-	
Special Supplies	No			
TV/ Radio Outlets	No			
Audio/ Visual Systems	твс			
Audio Systems :	Induction loop system			
Access Control	No		 	
ссту	No			
Intruder Alarm	PIR Sensors			
Specialist Systems	No	_		
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient Nois			NR 38 or as required to Regulatons Approved I	Doc. E
FINISHES ()				
Floor		150mm x 19mm painted md		•
Walls	Painted plasterboard o	on metal stud		
Ceiling	Suspended M/F system	n, painted plasterboard with	acoustic tiles	
Fitings / Sanitaryware	Built in mdf shelving a	nd cupboards to alcoves. Ful	ly fitted venetian blinds to	o windows.
		<u></u>		Date : 26.02.14



Revision B

Community Building

Former Twickenham Sorti	ng Office		•	
Second Floor			KEY PLAN	
Room Name	Female Toilet	Approx. Area / Ceiling He	eight : 9m² // 2.4m	Room No. 2.02
MECHANICAL TO THE STATE OF THE				
Winter Temp (°C ± °C)	19 +/- 2	Summer Temp (*C ± *C)	Uncontrolled	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Transient Space	
Air Changes/ Hour	6-10 AC/HR			
DHW/ CWS/ Waste/ Vending	DHW, CWS & Waste	e for WC's & Basins	•	
Environmental Control System	Radiator Heating fro	om VRF Heat Pump		• •
ELECTRICAL AND A STATE OF THE S				
Lighting	Downlights			-
Illumination Levels	. 100 jux			
Emergency Lighting	To meet BS 5266-1	•	-	
Data/Telephone	No _			•
Small Power	No			
Equipment	Handrier			-
Fire Álarm	Fire Detection and	Alarm installed to meet BS 5839	-1 (L1) and DDA require	ments
PA System	No			. <u></u>
Special Supplies	No			
TV/ Radio Outlets	Ņò			
Audio/Visual Systems	No			
Audio Systêms	No			
Áccess Control	No		-	
ссту	No			•
Intruder Alarm	No			
Specialist Systems	No			
ACOUSTIC PERFORMANCES				
Upper Limit Indoor Ambient Nois	e Level - Equivalent NR	·	NR 45	
FINISHES ELEVATION OF THE SEC				
Floor	Slip resistant vinyl s	heet with welded pvc skirting		
Walls	Painted plasterboa			••
Ceiling	Suspended M/F.sys	tem, painted plasterboard		
Fitings / Sanitaryware	White sanitaryware	2 No wc cubicles, 2 whb's. Cer	amic tiling / mirrors abo	ve whb's
	<u> </u>		<u> </u>	Date : 26.02.14
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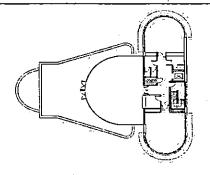


Community Building

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Second Floor		KEY.PLA

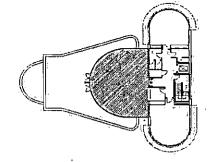
Secoliu, Floor		-	KET.PLAN	
Room Name	Måle Toilet	Approx. Area / Ceiling He	eight: 8m²/2.4m .	Room No. 2.03
MECHANICAL A STATE				
Winter Temp (FC± FC)	19.+/- 2	Summer Temp (†C ± †C)	Uncontrolled,	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Transient Space	
Air Changes/ Hour	6-10 AC/HR			
DHW/ CWS/ Waste/ Vending	DHW, CWS & Waste	for WC's & Basins		
Environmental Control System	Radiator Heating from	n VRF Heat Pump		
ELECTRICAL				
Lighting	Downlights			
Illumination Levels .	100 lux		•	
Emergency Lighting	To meet BS 5266-1			
Data/Téléphone	No			
Small Power	No.			
Equipment	Handrier			
Fire Alarm	Fire Detection and A	larm installed to meet BS 5839	-1 (L1) and DDA requiren	nents:
PA System	No	·		
Special Supplies	Ν̈́ο			
TV/ Radio Outlets	No ·			
Audio/ Visual Systems	No			
Audio Systems	No			•
Access Control	No _			
cciv	No			
Intruder Alarm	No			
Specialist Systems	No			· · · · · · · · · · · · · · · · · · ·
ACOUSTIC PERFORMANCE				
Upper, Limit Indoor Ambient Noi:	se Level - Equivalent NR		NR 45	
FINISHES A STATE OF THE PROPERTY OF THE PROPER				
Floor	Slip resistant vinyl sh	eet with welded pvc skirting		
Wálls	Painted plasterboard	on metal stud		•
Ceiling	Suspended M/F syste	em, painted plasterboard	· -	
Fitings / Sanitaryware	White sanitaryware,	1 No wc cubicles; 2 whb's, 2 u	rinals. Ceramic tiling / mi	rrors above whb's
,				Date : 26.02.14 Revision B

St James



Community Building

Second Floor		KEY, PLAN		4
Room Name	Accessible WC	Approx. Area / Ceiling He	eight: 3m²/2.4m	Room No. 2.04
MECHANICAL SALES CONTROL				
Winter Temp (*C ± *C):	21 +/- 2	Summer Temp (°C ± °C)	Uncontrolled	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Transient Space	
Air Changes/ Hour	6-10 AC/HR			
DHW/ CWS/ Waste/ Vending	DHW/ CWS & Wast	e for WC & Basin	•	
Environmental Control System	LST Radiator Heatin	g from VRF Heat Pump		
ELECTRICAL				
Lighting.	Downlights			
Illumination Levels	100 lux			
Emergency Lighting	To meet B\$ 5266-1			
Data/Télephone	No		· · · · · · · · · · · · · · ·	
Small Power	No			
Equipment	Handrier J, disabled	alarm		
Fire Alarm	Fire Detection and	Alarm installed to meet BS 5839	1 (L1) and DDA requirem	ents
PA System	No.			
Special Supplies	No.			
TV/ Radio Outlets	No			
Audio/ Visual Systems	Ŋo	·	-	
Audio Systems	No			
Access Control	No-		-	•
cctv	No.			
Intruder Alarm	No		-	
Speciālist Systems	disabled call alarm			
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient No	ise Level . Equivalent NR		NR 45	-
FINISHES			Control of the	
Floor	Slip resistant vinyl	heet with welded pvc skirting	-	
ŴaÎÎs:	Painted plasterboa	rd on metal stud		L
Ceiling	Suspended M/F sys	tem, painted plasterboard		
Fitings / Sanitaryware	White Sanitaryward	e Standard Doc Minstallations: I	eaderflush bi-fold 'pivetti	e' door og similar
				Date : 26.02.14 Revision B



Community Building

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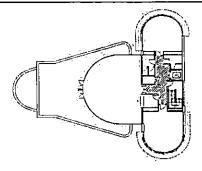
Second Floor

Second Floor.		KEY PLAN		
Room Name	Conservatory	Approx. Area / Ceiling He	ight: 120m²/2.4m	Room No. 2:06:
MECHANICAL				
Winter Temp (°C ± °C)	21°.+/÷2	Summer Temp (°C ± °C)	24,+/- 2	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	60.⁴	
Air Changes/ Hour	10 l/s/person	; ,		
DHW/ CWS/ Waste/ Vending	None			
Environmental Control System	vRF Fan Coil Casset	te Heating and Cooling		
ELECTRICALS FOR THE SECOND		第一个人的人的人		
Lighting	Downlights			
Illumination Levels	100 lux		_	
Emergency Lighting	To meet BS 5266-1	-		
Data/Telephone	2 x RJ45 (Cat 6) - p	rovided for use a data, telephon	e or internal intercom	
Small Power	5,Ño:TSSÖ		<u>.</u>	
Equipment	No			
Firé Alárm	Fire Detection and	Alarm installed to meet BS 5839	1 (L1) and DDA requirem	ents
PA System	Yes			<u>.</u>
Special Supplies	No			-
TV/ Radio Outlets	No			
Audio/ Visual Systems	No			
Audio Systems	No	-	•	
Access Control	No			
CCTV	No			
Intruder Alarm	PIR Sensors			
Specialist Systems	Йo			_
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient N	loise Level - Equivalent NR		NR 35 or as required to Regulatons Approved I	
FINISHES				
Floor	HW flooring with 1	50mm x 19mm painted mdf skirt	ting	<u> </u>
Walls:	Painted plasterboa	rd on metal stud / curtain wallin	g	
Ceiljing	Suspended M/F sys	tem, painted plasterboard		
Fitings / Sanitaryware		• _		
				Dec. 35 03 35
•			•	Date: 26.02.14 Revision B



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Second Floor



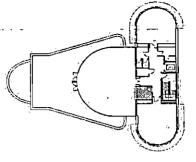
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Second Floor		KEY PLAN		
Room Name	Lobby	Approx. Area / Ceiling He	eight: 21m ² / 2.4m	Room No. 2.07
MECHANICAL				
Winter Temp (*C ± *C)	19.+/- 2	Summer Temp (°C ± °C)	Uncontrolled	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Transient Space	
Air Changes/ Hour	None			
DHW/ CWS/ Waste/ Vending	None		-	-
Environmental Control System	VRF Fan Coil Casset	te Heating		
ELECTRICAL				
Lighting	Downlights			-
illumination Levels	150 lux			·
Emergency Lighting	To meet BS 5266-1	·	•	
Data/Telephone	No			
Small Power	1 No TSSO			
Equipment	No	;		
Fire Alarm	Fire Detection and	Alarm installed to meet BS 5839	-1.(L1) and DDA requiren	nents
PA System	Ño			
Special Supplies	No			
TV/ Radio Outlets	No			
Audio/ Visual Systems	No			
Audio Systems	No		-	
Access Control	No		·-	
ссту	No			
Intruder Alarm	No			
Specialist Systems	No		-	
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient Nois	se Level - Equivalent NR	•	NR.40	
FINISHES				
Floor	Slip resistant vinyl	heet with 150mm x 19mm pain	ted mdf skirting	·
Walls	Painted plasterboa	rd on metal stud		
Ceiling	Suspended M/F sys	tem, painted plasterboard		
Fitings / Sanitaryware	No		-	
				Date : 26.02.14
		·	-	Revision B



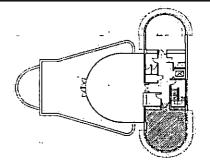
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Second Floor



KEY	DI	Λ	N

Second Floor	·		KEY PLAN	
Room Name	Bar	Approx. Area / Ceiling He	eight: 8m² / 2.4m	Room No. 2.09
MECHANICAL AND	STATE STATE			
Winter Temp (°C ± °C)	21+/-2	Summer Temp (°C ± °C)	24 +/- 2	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Included in Conservato	bry
Air Changes/ Hour	10 l/s/person			
DHW/ CWS/ Waste/ Vending	None			
Environmental Control System		vatory	• .	·
ELECTRICAL A				
Lighting	Downlights			
Illumination Levels	100 lujx	-		
Emergency Lighting	To meet 85 5266-1			
Data/Telephone	1 x RJ45 (Cat 6) -	provided for use a data, telephor	ne or internal intercom	
Small Power	2 No TSSO			
Equipment	As required by bar	fit out		
Fire Alarm	Fire Detection and	Alarm installed to meet BS 5839	-1 (L1) and DDA require	ments
PA System	Yes	-	•	
Special Supplies	No			<u> </u>
TV/ Radio Outlets	No			
Audio/ Visual Systems	No	· · · · · · · · · · · · · · · · · · ·		
Audio Systems	No	<u> </u>		
Access Control	No	·		
ссту	Ño			_
Intruder Alarm	No.	· · · · · · · · · · · · · · · · · · ·		
Specialist Systems	Ño.	-		
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient I	Noise Level - Equivalent Ni	R	NR 40	
FINISHES				
Floor	Slip resistant vinyl	sheet with 150mm x 19mm pair	ted mdf skirting	
Walls	Painted plasterbo	ard on metal stud		
Ceiling	Suspended M/F sy	ystem, painted plasterboard	•	
Fitings / Sanitaryware	Bar servery and sl	nutter to be provided.		
			· · -	Date : 26.02.14
				Revision B



Revision B

Community Building

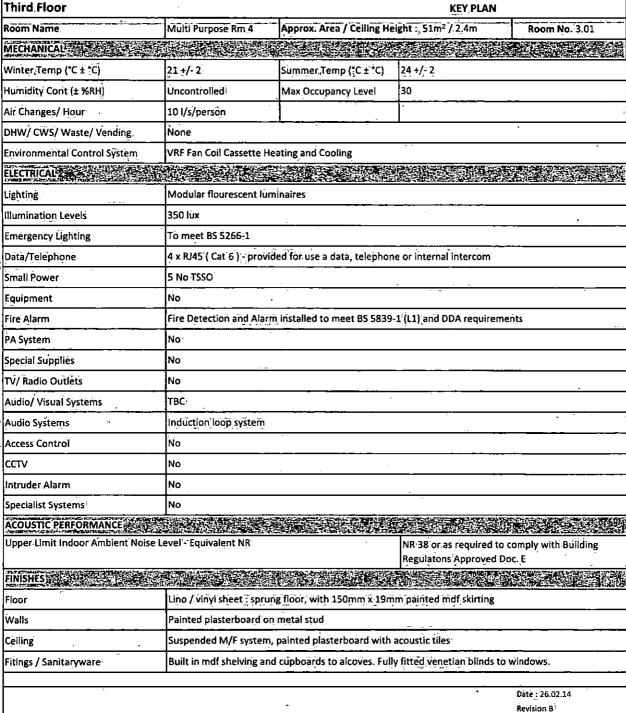
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Second Floor KEY PLAN

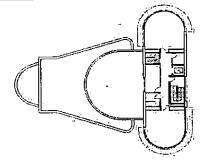
Michi Purpose Rm 1					
Winter Temp ("C ± "C)	Room Name:	Multi Purpose Rm 1	Approx. Area / Celling He	elght: 54m²/2.4m	Room No. 2:10
Humidity Cont (£ MRH) Air Changes/Hour 10 Vs/person DHW/ CWS/ Waste/ Vending DHW, CWS & Waste for sink Rivironinental Control System VR Fan Coil Cassette Heating and Cooling ELECTRICAL Lighting: Modular flourescent luminaires Illumination Levels. 350 lux To meet 85 5266-1 Data/Telephone 4 x RJ45 (Cat 6):, provided for use a data, telephone or internal intercom Small Power 5 No TSSO Quijoment No Fire Detection and Alarm installed to meet 85 5839-1 (L1) and DDA requirements PA System No Special Supplies No TV/ Radio Outlets No Audio/ Visual Systems TBC: Audio Systems Induction loop system No Specialist Systems No Access Control No CCTV No Intruder Alarm No Specialist Systems No ACOUSTIC PERFORMANCE Lighting Superistant viriyl sheet with 150mm x 19mm painted midf skirting Painted plasterboard on metal stud Ceiling Suspended M/F system, painted plasterboard with acoustic tiles Hot & cold water, supply, sink, drainer and base unit within built-in mdf shelping and cupboards to the county with acoustic tiles Hot & cold water, supply, sink, drainer and base unit within built-in mdf shelping and cupboards to the county with acoustic tiles Hot & cold water, supply, sink, drainer and base unit within built-in mdf shelping and cupboards to the county with acoustic tiles	MECHANICAL				
Air Changes/ Hour DHW/ CWS/ Waste/ Vending DHW/ CWS & Waste for sink VRF Fair Coll Cassette Heating and Cooling Environmental Control System VRF Fair Coll Cassette Heating and Cooling Lighting: Modular flourescent luminaires Illumination Levels Emergency Lighting To meet 85 5266-1 Data/Telephone 4 x R45 (Cat 6) - provided for use a data, telephone or internal intercom Small Power 5 No TSSO Equipment No Fire Alarm Fire Detection and Alarm installed to meet 85 5839-1 (L1) and DDA requirements No Special Supplies No No No Audio/ Visual Systems Audio Systems Audio Systems Access Control No CCTV. No Intruder Alarm No Specialist Systems No ACOUSTIC PERFORMANCE Upper Limit Indoor. Amblent Noise Level - Equivalent NR RR 38 or as required to comply with Buildir Regulations Approved Doc. E FINISHES Filion, Slip resistant vinit sheet with 150mm x 19mm painted mid skirting Walls Painted plasterboard on metal stud Celling Suspended M/F system, painted plasterboard with acoustic tiles Hot & cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to the cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to the cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to the cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to the cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to the cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to the cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to the cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to the cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to the cold water supplements and the c	Winter Temp (°C ± °C)	21 +/- 2	Summer Temp (*C ± *C)	24 +/- 2.	
DHW, CWS / Waste/ Vending DHW, CWS & Waste for sink VRF Fan Coil Cassette Heating and Cooling LECTRICAL Lighting: Modular flourescent luminaires Illumination (Levels 350 lux Emergency Lighting To meet 85 5266-1 Data/Telephonie 4 x R/45 (Cat 6) - provided for use a data, telephone or internal intercom Small Power 5 No TSSO Equipment No Fire Alarm Fire Detection and Alarm installed to meet 85 5839-1 (L1) and DDA requirements PA System No No Special Supplies No IV/ Radio Outlets No Audio/ Visual Systems Induction loop system Access Control No CCTV No Intruder Alarm No Specialist Systems No ACOUSTIC PERFORMANCE Upper Limit Indoor Ambient Noise Level - Equivalent NR Radio Approved Doc. E Finishes Filor, Slip resistant vinyl sheet with 150mm x 19mm painted midf skirting Walls Painted plasterboard on metal stud Celling Suspended M/F system, painted plasterboard with acoustic tiles Hot & cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to Hot & cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to Hot & cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to	Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	30	
ELECTRICAL Lighting: Modular flourescent luminaires Illumination Levels 350 lux Emergency Lighting: To meet 85 5266-1 Data/Telephone 4 x R445 (Cat 6) - provided for use a data, telephone or internal intercom Small Power 5 No TSSO Equipment No Fire Alarm Fire Detection and Alarm installed to meet 85 5839-1 (L1) and DDA requirements PA System No Special Supplies No TV/ Radio Outlets No Audio/ Visual Systems Induction loop system Access Control No CCTV No Intruder Alarm No Specialist Systems No ACOUSTIC PERFORMANCE LUPPER LIMIT Indoor. Amblent Noise Level - Equivalent NR NR 38 or as required to comply with Buildin Regulations Approved Doc. E FINISHES Floor, Sip resistant viryl sheet with 150mm x 19mm painted midf skirting Painted plasterboard on metal stud Suspended M/F system, painted plasterboard with acoustic tiles Hot & Cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to cold water.	Air Changes/Hour	10 l/s/person		-	
Lighting: Modular flourescent luminaires Illumination Levels. 350 lux Illumination Levels. 350	DHW/ CWS/ Waste/ Vending	DHW, CWS & Waste fo	er sink		
Illumination Levels 350 Lux					
Illumination Levels 350 Lux	LECTRICAL				
To meet BS 5266-1 Data/Telephone 4 x RJ45 (Cat 6) -, provided for use a data, telephone or internal intercom 5 Mail Power 5 No TSSO Equipment No Fire Alarm Fire Detection and Alarm installed to meet BS 5839-1 (L1) and DDA requirements PA System No Special Supplies No IV/ Radio Outlets Audio/ Visual Systems Access Control No Intruder Alarm No Specialist Systems No ACOUSTIC PERFORMANCE Upper Limit Indoor, Amblient Noise Level - Equivalent NR RR 38 or as required to comply with Buildir Regulations Approved Doc. E EMISHEST Floor, Slip resistant vinyl sheet with 150mm x 19mm painted mdf skirting. Walls Painted plasterboard on metal stud Suspended M/F system, painted plasterboard with acoustic tiles Editing Suspended M/F system, painted plasterboard with acoustic tiles	ighting				
Data/Telephone 4 x RJ45 (Cat 6) - provided for use a data, telephone or internal intercom 5 No TSSO Equipment No Fire Alarm Fire Detection and Alarm installed to meet B5 5839-1 (L1) and DDA requirements PA System No Special Sypties No TV/ Radio Outlets No Audio / Visual Systems Induction loop system Access Control No CCTV No Intruder Alarm No Specialist Systems No ACOUSTIC PERFORMANCE Upper Limit Indoor. Amblent Noise Level - Equivalent NR Regulations Approved Doc. E FINISHES) Floor, Slip resistant vinyl sheet with 150mm x 19mm painted midf skirting. Walls Painted plasterboard on metal stud Suspended M/F system, painted plasterboard with acoustic tiles Hot & cold water supply, sink, drainer and base unit within built-in mdf shelving and cupboards to state of the political properties.	llumination Levels	350 lux			
Small Power Equipment No Fire Alarm Fire Detection and Alarm installed to meet B5 5839-1 (L1) and DDA requirements PA System No Special Supplies No Audio Visual Systems Access Control No CCTV. No Induction loop system No Specialist Systems No ACOUSTIC PERFORMANCE LUpper Limit Indoor. Ambient Noise Level - Equivalent NR Regulatons Approved Doc. E FINISHES) Floor, Slip resistant vinyl sheet with 150mm x 19mm painted midf skirting. Wails Painted plasterboard on metal stud Ceiling: Suspended M/F system, painted plasterboard with acoustic tiles Hot & cold water supply, sink, drainer and base unit within built-in mdf shelving and cupboards to supplications.	Emergency Lighting	To meet BS 5266-1		.	
Fire Alarm Fire Detection and Alarm installed to meet B5 5839-1 (L1) and DDA requirements PA System No Special Supplies No Audio Visual Systems Audio Visual Systems Induction loop system Access Control No CCTV. No Intruder Alarm No Specialist Systems No ACOUSTIC PERFORMANCE Upper Limit Indoor Ambient Noise Level. Equivalent NR NR 38 or as required to comply with Buildir Regulations Approved Doc. E FINISHEST Floor, Slip resistant vinyl sheet with 150mm x 19mm painted midf skirting Walls Painted plasterboard on metal stud Ceiling Suspended M/F system, painted plasterboard with acoustic tiles Hot & cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to the control of th	Data/Telephone	4 x RJ45 (Cat 6) - prov	rided for use a data, telephor	ne or internal intercom	
Fire Alarm Fire Detection and Alarm installed to meet BS 5839-1 (L1) and DDA requirements PA System No Special Supplies No Audio Outlets Audio Visual Systems Access Control No CCTV No Intruder Alarm No Specialist Systems No ACOUSTIC PERFORMANCE Upper Limit Indoor Ambient Noise Level - Equivalent NR Finishes Finor, Slip resistant vinityl sheet with 150mm x 19mm painted midf skirting. Walls Painted plasterboard on metal stud Suspended M/F system, painted plasterboard with acoustic tiles Hot & cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to	Small Power	5 No TSSO			
PA System No Special Supplies No Audio Outlets Audio Visual Systems Induction loop system Access Control No CCTV No Intruder Alarm No Specialist Systems No ACOUSTIC PERFORMANCE Upper Limit Indoor Ambient Noise Level Equivalent NR NR 38 or as required to comply with Buildir Regulations Approved Doc. E Finishes Floor, Slip resistant vinyl sheet with 150mm x 19mm painted mdf skirting Walls Painted plasterboard on metal stud Ceiling Suspended M/F system, painted plasterboard with acoustic tiles Hot & cold water supply, sink, drainer and base unit within built-in mdf shelving and cupboards to	Equipment	No			
No Audio/ Visual Systems Audio/ Visual Systems Audio Systems No CCTV No Intruder Alarm No Specialist Systems No ACOUSTIC PERFORMANCE Upper Limit Indoor Ambient Noise Level - Equivalent NR NR 38 or as required to comply with Building Regulatons Approved Doc. E Floor, Slip resistant vinyl sheet with 150mm x 19mm painted midf skirting. Walls Painted plasterboard on metal stud Ceilling Suspended M/F system, painted plasterboard with acoustic tiles Hot & cold water supply, sink, drainer and base unit within built-in mdf shelving and cupboards to the supply of the control of the supply of the control of	Fire Alarm	Fire Detection and Alai	rm installed to meet BS 5839	-1 (L1) and DDA requireme	ents
No Audio/ Visual Systems TBC Audio/ Visual Systems Induction loop system Access Control No No No No Specialist Systems No ACOUSTIC PERFORMANCE JUpper Limit Indoor, Ambient Noise Level.—Equivalent NR No Specialist Systems No No No No Specialist Systems No No Specialist Systems No No Specialist Systems No No No No Specia	PA System	No			
Audio Systems Induction loop system Access Control No CCTV No Specialist Systems No ACOUSTIC PERFORMANCE Upper Limit Indoor Ambient Noise Level: Equivalent NR NR 38 or as required to comply with Buildin Regulatons Approved Doc. E INISHES Floor, Slip resistant viniyl sheet with 150mm x 19mm painted midf skirting Walls Painted plasterboard on metal stud Ceiling Suspended M/F system, painted plasterboard with acoustic tiles Hot & cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to suppose the supply in the s	Special Supplies	No			
Audio Systems Induction loop system Access Control No CCTV No Intruder Alarm No Specialist Systems No ACOUSTIC PERFORMANCE Upper Limit Indoor, Ambient Noise Level: - Equivalent NR NR 38 or as required to comply, with Buildin Regulatons Approved Doc. E INISHES Floor, Slip resistant vinyl sheet with 150mm x 19mm painted mdf skirting Walls Painted plasterboard on metal stud Ceilling Suspended M/F system, painted plasterboard with acoustic tiles Hot & cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to	TV/ Radio Outléts	No			
Access Control No No No No No Specialist Systems No ACOUSTIC PERFORMANCE Upper Limit Indoor Ambient Noise Level - Equivalent NR NR 38 or as required to comply with Building Regulations Approved Doc. E INISHES Floor, Slip resistant vinyl sheet with 150mm x 19mm painted mdf skirting Painted plasterboard on metal stud Ceiling Suspended M/F system, painted plasterboard with acoustic tiles Hot & cold water supply, sink, drainer and base unit within built-in mdf shelving and cupboards to	Audio/ Visual Systems	TBC:			
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No Specialist Systems No ACOUSTIC PERFORMANCE Upper Limit Indoor Ambient Noise Level - Equivalent NR NR 38 or as required to comply with Buildin Regulatons Approved Doc. E INISHES Floor, Slip resistant vinyl sheet with 150mm x 19mm painted mdf skirting. Walls Painted plasterboard on metal stud Suspended M/F system, painted plasterboard with acoustic tiles Hot & cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to	Access Control	No	-		
ACOUSTIC PERFORMANCE Upper Limit Indoor Ambient Noise Level - Equivalent NR NR 38 or as required to comply with Buildir Regulations Approved Doc. E INISHEST Floor, Slip resistant vinyl sheet with 150mm x 19mm painted midf skirting. Painted plasterboard on metal stud Suspended M/F system, painted plasterboard with acoustic tiles Hot & cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to	ссту	No			
Upper Limit Indoor Ambient Noise Level - Equivalent NR NR 38 or as required to comply with Buildin Regulatons Approved Doc. E INISHEST Floor, Slip resistant vinyl sheet with 150mm x 19mm painted mdf skirting. Walls Painted plasterboard on metal stud Suspended M/F system, painted plasterboard with acoustic tiles Hot & cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to	ntruder Alarm	No			
Upper Limit Indoor Ambient Noise Level - Equivalent NR NR 38 or as required to comply with Buildin Regulators Approved Doc. E FINISHES Floor, Slip resistant vinyl sheet with 150mm x 19mm painted mdf skirting Walls Painted plasterboard on metal stud Ceiling Suspended M/F system, painted plasterboard with acoustic tiles Hot & cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to					-
Upper Limit Indoor Ambient Noise Level - Equivalent NR NR 38 or as required to comply with Buildin Regulators Approved Doc. E FINISHES Floor, Slip resistant vinyl sheet with 150mm x 19mm painted mdf skirting Walls Painted plasterboard on metal stud Ceiling Suspended M/F system, painted plasterboard with acoustic tiles Hot & cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to	ACOUSTIC PERFORMANCE				
Floor, Slip resistant vinyl sheet with 150mm x 19mm painted midf skirting. Walls Painted plasterboard on metal stud Ceiling: Suspended M/F system, painted plasterboard with acoustic tiles Hot & cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards t	Upper Limit Indoor Ambient Noi	se Level - Equivalent NR		Regulatons Approved Do	- · ·
Walls Painted plasterboard on metal stud Ceiling Suspended M/F system, painted plasterboard with acoustic tiles Hot & cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to	INISHES			FORTER	
Suspended M/F system, painted plasterboard with acoustic tiles Hot & cold water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards to	loor,	Slip resistant vinyl she	ét with 150mm x 19mm pain	ted mdf skirting	<u> </u>
Hot & cold, water, supply, sink, drainer and base unit within built-in mdf shelving and cupboards t	WálÍs	Painted plasterboard o	on metal stud	· .	
itings / Sanitanavara	Céiling	Suspended M/F system	n, painted plasterboard with	acoustic tiles	
·	Fitings / Sanitaryware			it within bûilt-in mdf shelvi	ng and cupboards to
Date : 26.02.14					Date : 26.02.14

Community Building Former Twickenham Sorting Office





Community Building



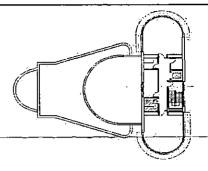
Third Floor			KEY PLAN		
Room Name	Female Toilet	Approx. Area / Ceiling He	eight : 6m² //2.4m	Room No. 3.02	
MECHANICAL CATALON					
Winter Temp (°C ± °C)	19 +/- 2	Summer Temp (°C ± °C)	Uncontrolled		
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Translent Space	-	
Air Changes/ Hour	6-10 AC/HR				
DHW/.CWS/.Waste/.Vending	DHW, CWS & Waste	for WC's & Basins		·	
Environmental Control System	Radiator Heating from	m VRF Heat Pump			
ELECTRICAL P					
Lighting	Downlights			·	
Illumination Levels	100 lux				
Emergency Lighting	To meet BS 5266-1				
Data/Telephone	. No				
Small Power	No	· · · - ·			
Equipment	Handrier	<u> </u>			
Fire Alarm	Fire Detection and A	larm installed to meet BS 5839	-1 (L1) and DDA requirer	neńts	
PA System	No		•		
Special Supplies	No				
TV/ Radio Outlets	No	 , 			
Audio/ Visual Systems	No		•		
Audio Systems	Ñó		<u> </u>		
Access Control	No				
CCTV'	No	 		<u> </u>	
Intruder Alarm	No	· · · · · · · · · · · · · · · · · · ·			
Specialist Systems	Ņo	-			
ACOUSTIC PERFORMANCE					
Upper Limit Indoor Ambient Nois	ie Level - Equivalent NR		NR 45		
FINISHES					
Floor	Slip resistant vinyl sl	neet with welded pvc skirting		,	
Walls	Painted plasterboard	d'on metal stud'	-·	,	
Ceiling	Suspended M/F syst	em, painted plasterboard	<u> </u>		
Fitings / Sanitaryware	White sanitaryware,	1 No wc cubicle, 1 whb's. Cera	amic tiling / mirrors abov	e whb	
				Date : 26.02.14 Revision B	

Revision B

Community Building

	•		
Third Floor			come maia at
i nira Floor		•	KEY PLAN

Room Name	Lobby	Approx. Area / Ceiling He	eight : 17m² / 2.4m	Room No. 3.04
MECHANICAL				
Winter Temp (*C ± *C)	19 +/- 2	Summer Temp (*C ± *C)	Uncontrolled	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Transient Space	
Air Changes/ Hour	None			
DHW/, CWS/, Waste/ Vending	None:		•	
Environmental Control System:	VRF Fan Coil Casset			
ELECTRICAL			TOPES TO	
Lighting	Downlights	•		
Illumination Levels	150 lux	·		
Emergency Lighting	To meet BS 5266-1			
Data/Telephone	Nò			
Small Power	1 No TSSO			_
Equipment	Ņo			
Fire Alarm	Fire Detection and	Alarm installed to meet BS 5839	-1 (L1) and DDA requireme	nts
PA System	Ño			
Special Supplies	No			
TV/ Radio Outlets	No	-		
Audio/ Visual Systems	No			
Audio Systems	No			
Access Control	No			
CCIA.	No			;
Intruder, Alarm	No			
Specialist Systems	No		·	
ACOUSTIC PERFORMANCE			errough	THE RESIDEN
Upper Limit Indoor Ambient Noise			NR 40	
FINISHES				
Floor	Slip resistant vinyl	sheet with 150mm x 19mm pain	ted mdf skirting:	
Walls	Painted plasterboa	ird on metal stud		,
Ceiling	Suspended M/F sy	stem, painted plasterboard		
Fitings / Sanitaryware	No		•	
				Date: 26.02.14



Revision B

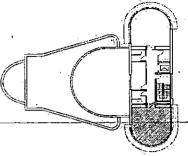
Community Building-

Third Floor	KEY PLAN
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Room Name	Male Toilet	Approx. Area / Celling He	eight::/7m²/2.4m	Room No. 3.06
MECHANICAL				
Winter Temp (°C ± °C)	19 +/- 2	Summer Temp (*C ± *C)	Uncontrolled	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Transient Space	
Air Changes/ Hour	6-10 AC/ḤR			
DHW/ CWS/ Waste/ Vending	DHW, ČWŠ & Wast	e for WC's & Basins		
Environmental Control System	Radiator Heating fr	rom VRF Heat Pump		
ELECTRICAL				
Lighting	Downlights		·-··	
Illumination Levels	100 lux			
Emergency Lighting	To meet BS 5266-1	·		
Data/Telephone	No		-	
Small Power	No			
Equipment	Handrier	· · · · · · · · · · · · · · · · · · ·		
Fire Alarm	Fire Detection and	Alarm installed to meet BS 5839	9-1 (L1) and DDA requireme	nts
PA System	No			
Special Supplies	No			
TV/ Radio Outlets	No			
Audio/ Visual Systems	No			
Audio Systems	Ñο	· · · · · · · · · · · · · · · · · · ·		
Access Control	No			
CCTV	No			
Intruder Alarm	No.	_		-::
Specialist Systems	No			
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient No	ise Level - Equivalent NR	-	NR 45	
FINISHES J				
Floor	Slip resistant vinyl	sheet with welded pvc skirting		
Walls	Painted plasterboa	ard on metal stud		ه د
Ceiling	Suspended M/F sy	stem, painted plasterboard		
Fitings / Sanitaryware	White sanitanwar	e, 1 No wc cubicle, 1 whb, 1 urin	nal. Ceramic tiling / mirrors	above whb's'

St James

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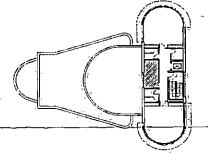


Date : 26.02.14 Revision B

Community Building

Community Building				
Former Twickenham Sortin	ng Office			
Third Floor: KEY PLAN				
Room Name	Mülti Purpose Rm 3	Approx: Area / Ceiling He	eight: 50m ²⁷ /, 2.4m	Room No. 3.07
MECHANICAL				
Winter Temp (*C ± *C)	21 +/- 2	Summer Temp (*C ± *C)	24 +/- 2	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	30	
Air Changes/ Hour	10 l/s/person		T	
DHW/ CWS/ Waste/ Vending	DHW, CWS & Waste for	sink;		
Environmental Control System	VRF Fan Coil Cassette Ho	eating and Cooling		
ELECTRICALY				
Lighting	Modular, flourescent lun	ninaires	_	
Illumination Levels	350 lüx			
Emergency Lighting	To meet BS 5266-1			
Data/Telephone	4 x RJ45 (Cat 6) - provid	ded for use a data; telephor	ne or internal intercom	
Small Power	5 No TSSO			
Equipment	No	Ño		
Fire Alarm	Fire Detection and Alarr	Fire Detection and Alarm installed to meet BS 5839-1 (L1) and DDA requirements		
PA System	No	No		
Special Supplies	No			
TV/ Radio Outlets	No			
Audio/ Visual Systems:	ТВС			
Audio Systems	Induction loop system	·		
Access Control	No			
CCTV.	No			
Intruder Alarm	No			
Specialist Systems	No			
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient Noise	Level - Equivalent NR		NR 38 or as required to o Regulatons Approved Do	oc. E
FINISHES				
Floor	Lino / vinyl sheet with 150mm x 19mm painted mdf skirting			
Walls.	Painted plasterboard on metal stud			
Ceiling	Suspended M/F system, painted plasterboard with acoustic tiles			
Fitings / Sanitaryware	Hot & cold water supply, sink, drainer and base unit within built-in mdf shelving and cupboards to alcoves. Fully fitted venetian blinds to windows.			

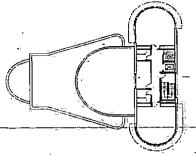
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Community Building

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Third Floor	MEN DIA
l'inira riour	KEY PLAN

Room Name	Office	Approx. Area / Ceiling H		Room No. 3.08
MECHANICAL COMPANY				
Winter Temp (°C ± °C)	21′+/- 2	Summer Temp (°C ± °C)	24 +/- 2	-
Humidity Cont (± %RH)	Uncontrolled	Máx Occupancy Level	2.	
Air Changes/ Hour	10 l/s/person			
DHW/ CWS/ Waste/ Vending	None			-
Environmental Control System	VRF Fan Coil Casset	te Heating and Cooling	•	
ELECTRICAL				
Lighting	Modular flourescer	it luminaires		
Illumination Levels	350 lux:	ı	÷	•
Emergency Lighting	To meet BS 5266-1	-	-	
Data/Telephone	2 x RJ45 (Cat 6) - F	rovided for use a data; telephor	ne or internal intercom	=
Small Power	2 No TSSO	· · · · · · · ·		
Equipment	No			
Fire Alarm	Fire Detection and	Alarm installed to meet BS 5839)-1 (L1) and DDA requirem	ients
PA System	No			,
Special Supplies	No		_	
TV/ Radio Outlets:	No	-		
Audio/ Visual Systems	No	•		<u>.</u>
Audio Systems	No			<u>-</u>
Access Control	No			
ccıı,	No			
Intruder Alarm	No			
Specialist Systems	No	·		-
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient N	•	<u>.</u>	NR 35	
FINISHES 1. SL				
Flóor	Carpet			
Walls	Painted plasterboa	rd on metal stud		
Ceiling	Suspended M/F sys	stem, painted plasterboard		<u></u>
Fitings / Sanitaryware				
				Date : 26.02.14
•				Revision B

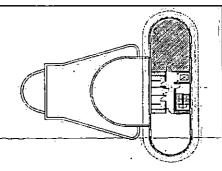


Date: 26.02.14 Revision B

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Community Building				
Former Twickenham Sort	ing Office	•	•	
Third Floor			KEY, PLAN	
Room Name	Cleaners Store	Approx. Area / Ceiling He	eight: 7m² / 2.4m	Room No. 3.09
MECHANICAL TO THE STATE OF THE				
Winter Temp (*G ± *C)	19 +/- 2	Summer Temp (°C ± °C)	Uncontrolled,	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Transient Space	· · · · · · · · · · · · · · · · · · ·
Air Changes/ Hour	6-10 AC/HR			
DHW/ CWS/ Waste/.Vending	DHW, CWS & Waste	for Sink		
Environmental Control System	Radiator Heating fro	m VRF Heat Pump		.,.
ELECTRICAL				
Lighting	Downlights			·
Illumination Levels	100 lux			
Emergency Lighting	To meet 8S 5266-1	·		
Data/Telephone	Ño.			·
Small Power	No:	<u> </u>		
Equipment	No	·-		
Fire Alarm	Fire Detection and	Alarm installed to meet BS 5839	-1 (L1) and DDA require	ments
PA System	Ño	• •		
Special Supplies	No			
TV/,Radio Outlets	No	-1		
Aŭdio/ Visual Systems	No			
Audio Systems	No			
Access Control	Ño	<u> </u>		
ÇÇTV [.]	No			
Intruder Alarm	No			
Specialist Systems	No -			
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient Noi			NR 45	
FINISHES				
Floor	Slip resistant vinyl s	heet with welded pvc skirting		
Walls	Painted plasterboa	rd on metal stud		
Ceiling	Suspended M/F sys	tem, painted plasterboard		
Fitings / Sanitaryware	White cleaners sink	<u> </u>		

St James

[]



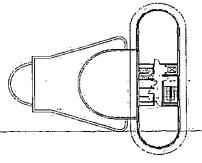
Revision B

Community Building-

F	ourth Floor	KEY PLAN

roui tii riooi		_	KET PLAIN	
Room Name	Multi Purpose Rm 6	Approx. Area / Ceiling He	eight:: 69m² //2.4m	Room No. 4.01
MECHANICAL				
Winter Temp (*C ± *C)	21 +/- 2	Summer-Temp (°C ± °C)	24 +/- 2	
မှုပဏ္ဏို့dity Cont (± %RH)	Uncontrolled	Max Occupancy Level	30	
Air Changes/ Hour	10 l/s/person		·	
DHW/ CWS/ Waste/ Vending	Ñone	_	-	
Environmental Control System	VRF Fan Coil Cassette H	leating and Cooling		
ELECTRICAL		电影性 图图图		
Lighting.	Modular flourescent lu	minaires [;]	_	
Illumination Levels	350 lùxî			•
Emergency Lighting	To meet BS 5266-1	· ·		
Data/Telephone	4 x RJ45 (Cat 6) - prov	ided for use a data, telephor	ne or internal intercom	
Small Power	5 No TSSO			
Edűjpínjejít	No			=
Fire Alarm	Fire Detection and Alar	m installed to meet BS 5839	-1 (L1) and DDA requiren	ients
PA System	No		-	
Special Supplies	No			
TV/ Radio Outlets	Ņo			_
Audio/ Visual Systems	твс∞			
Audio Systems	Induction Joop system			
Access Control	No			
ссту	Nö			
Intruder Alarm	- No	-		
Specialist Systems	No			
ACOUSTIC PERFORMANCE			开放地型 型定	
Upper-Limit Indoor Ambient No	ise Level - Equivalent NR		NR 38 or as required to Regulatons Approved I	
FINISHES				
Floor	Lino / vinyl sheet : spru	ing floor, with 150mm x 19n	nm painted mdf skirting	
Walls	Painted plasterboard o	n metal stud	-	
Ceiling	Suspended M/F system	n, painted plasterboard with	acoustic tiles	~***
Fitings / Sanitaryware	Built in mdf shelving ar	nd cupboards to alcoves. Full	γ fitted venetian blinds t	ő windows.
		-		
				Date : 26.02.14

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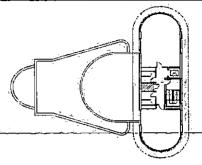


Community Building-

			-
Fourth Floor	•	KEY.P	LAN

Fourth Floor	•		KEY PLAN	, , ,
Room Name	Female Toilet	Approx. Area / Ceiling He	eight: 6m²/,2.4m	Room No. 4:02
MECHANICAL V				
Winter Temp (*C'± *C)	19 +/- 2	Summer Temp (°C ± °C)	Uncontrolled	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Transient Space	
Air Changes/ Hour	6-10 AC/HR		•	
DHW/ CWS/ Waste/ Vending	DHW, CWS & Wast	e for WC's & Basins	•	
Environmental Control System		om VRF Heat Pump		
ELECTRICAL				
Lighting	Downlights			
Illumination Levels	100 lux	•		
Emergency Lighting,	To meet BS 5266-1			
Data/Telephone	No.			-
Small Power	No		<u></u>	
Equipment	Handrier			
Fire Alarm	Fire Detection and	Alarm installed to meet BS 5839	-1 (L1) and DDA requirer	nents
PA System	No			
Special Supplies	No			
TV/, Radio Outlets	Ņo			
Audio/Visual Systems	No			
Aúdio Systems	No			
Access Control	No No			
ссту	No			
İntruder Alarm	No			at .
Specialist Systems	No	3		
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient No	ise Level - Equivalent NR	•	NR 45	· · · · · · · · · · · · · · · · · · ·
FINISHES				
Floor	Slip resistant vinyl	sheet with welded pvc skirting		_
Walls	Painted plasterboa	ord on metal stud		
Ceiling	Suspended M/F sy	stem, painted plasterboard		
Fitings / Sanitaryware	White sanitarywar	e, 1 No wc cubicle, 1 whb's. Cera	amic tiling / mirrors abov	e whb
				Date : 25 02 14
				Date : 26.02.14 Revision B

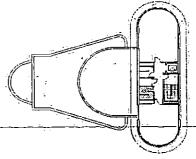
1 1



Community Building-

Fourth Floor	KEY PLAN

Room Name	Accessible WC	Approx. Area / Ceiling He	eight::3m² / 2.4m	Room No. 4.04
MECHANICAL AND				
Winter Temp (*C ± *C)	21 +/- 2	Summer Temp (°C ± °C)	Uncontrolled	·
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Transient Space	
Air Changes/ Hour	6-10 AC/HR		•	
DHW/ CWS/ Waste/ Vending	DHW/ CWS & Wast	e for WC & Basin		
Environmental Control System	1 .	ng from VRF Heat Pump		
ELECTRICAL				
Lighting	Downlights			
Illumination Levels:	100 lux		•	
Emergency Lighting	Tò meet B\$ 5266-1			
Data/Telephone	No *	<u> </u>		
Small Power	No			k.
Equipment	Handrier / disabled	alarm		
Fire Alarm	Fire Detection and	Alarm installed to meet BS 5839	-1 (L1) and DDA requirer	ments
PA System	No			
Special Supplies	No			
ŢV∕ Radio Outletŝ	No			
Audio/ Visual Systems	No			
Audio Systems	No			
Access Control	No			
ĉċτν	No			
Intruder Alarm	No			
Specialist Systems	disabled call alarm	<u></u>		
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient No	oise Level - Equivalent NR	1	NR 45'	
FINISHES				
Floor	Slip resistant vinyl s	sheet with welded pvc skirting		
Walls	Painted plasterboa	rd on metal stud		
Ceiling	Suspended M/F sys	stem, painted plasterboard		
Fitings / Sanitaryware	White Sanitaryware	e Standard Doc M installation. L	eaderflush bi-fold 'pivett	e' door or similar
				Date : 26.02.14
	•			Revision B



Date: 10.02.14 Revision A

Community Building

TOTAL TANORETHIOTIC COTTA	41oc	•		
Fourth Floor			KEY PLAN	
Room Name:	Male Toilet	Approx. Area / Ceiling He	ight: 7m ² / 2.4m	Room No. 4.06
MECHANICAL				
Winter Temp (*C ± *C)	19 +/- 2	Summer Temp (°C ± °C)	Uncontrolled	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Transient Space	
Air Changes/ Hour	- 6-10 AC/HR			-
DHW/ CWS/ Waste/ Vending	DHW, CWS & Waste for Y	WC ¹ s & Basins		•
Environmental Control System	Radiator Heating from Vi	RF Heat Pump		
ELECTRICAL				
Lighting	Downlights			
Illumination Levels	100 lux			_
Emergency Lighting	To meet BS 5266-1	,	-	
Data/Telephone	. No			
Small Power	Nο			
Equipment	Handrier			
Fire Alarm	Fire Detection and Alarm	installed to meet 85 5839	-1 (L1) and DDA require	ements
PA System	No			
Special Supplies	Ņó			."
TV/ Radio Outlets	Ño	<u> </u>		
Audio/ Visual Systems	No			
Audio Systems	No			
Access Control	No		*	•
cctv	No.			•
Intruder Alarm	No	•	X *	•
Spečialist Systems	No			
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient Noise	e Level - Equivalent NR		NR 45	
FINISHES				
Floor	Slip resistant vinyl sheet	with welded pvc skirting		
Walls	Painted plasterboard on	metal stud		
Ceiling	Suspended M/F system,	painted plasterboard	•	 -
Fitings / Sanitaryware	White sanitaryware, 1 N	o wc cubicle, 1 whb, 1 urin	al. Ceramic tiling/mirro	ors above who's

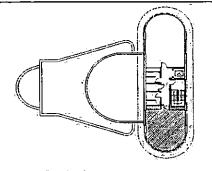
Revision A

Community Building-

ı			 	
	Fourth.	Floor		

KΕ	Y, P	LA	N

purth-Floor, KEY, PLAN				
Room Name	Lobby	Approx. Area / Ceiling He	eight: 12m²/2.4m	Room No. 4.07
MECHANICAL				2.00
Winter Temp (°C ± °C)	19 +/- 2.	Summer Temp (°C ± °C)	Uncontrolled	
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	Transient Space	
Air Changes/ Hour	None;	,		
DHW/,CWS/ Waste/ Vending	None [,]		•	_
Environmental Control System.	VRF Fan Coil Casset	te Heating		
ELECTRICAL BOY A				
Lighting	Downlights		<u> </u>	
Illumination Levels	150 lux:			•
Emergency Lighting	To meet BS 5266-1			•
Data/Telephone	Nō	_		- · · · ·
Small Power	1 No;TSSO			
Equipment	Ņo			
Fire Älarm	Fire Detection and	ire Detection and Alarm installed to meet 8S 5839-1 (L1) and DDA requirements		
PA System	No		-	
Special Supplies	No			
TV//Radio Outlets:	Ño			
Audio/ Visual Systems	Nő	•	·	
Audio Systems	No			
Access Control	No		= · _ ·	
ССТУ	No			
Intruder Alarm	No			
Specialist Systems	No	•		
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient Noi			NR 40	
FINISHES				
Floor	· i	sheet with 150mm x 19mm pain		
Walls	Painted plasterboa	Painted plasterboard on metal stud		
Ceiling	Suspended M/F sy	stem, painted plasterboard		
Fitings / Sanitaryware	Nó			
			- <u>-</u>	
				Date : 10.02.14



Community Building

Fourth Floor KEY PLAN				
Room Name	Multi Purpose Rm 5	Approx. Area / Ceiling Height: \$53m²/2:4m Room No. 4:08		
MECHANICAL AND				
Winter Temp (*C ± *C)	21 +/- 2	Summer Temp ("C ± "C)	24 +/- 2	-
Humidity Cont (± %RH)	Uncontrolled	Max Occupancy Level	30	
Air Changes/ Hour	10 l/s/person			
DHW/ CWS/ Waste/ Vending	None	•		
Environmental Control System	VRF Fan Coil Cassette F	VRF Fan Coil Cassette Heating and Cooling		
ELECTRICAL				
Lighting	Modular flourescent lu	minaires	_	
Illumination Levels	350 lux			
Emergency Lighting	To meet BS 5266-1			<u></u>
Data/Telephone	4 x RJ45 (Cat 6) - prov	ided for use a data, telephor	ne or internal intercom	
Small Power	5 No TSSO			
Équipment	Ŋò	<u></u>		
Fire Alarm	Fire Detection and Alai	rm installed to meet BS 5839	-1 (L1) and DDA requiren	nents
PA System	Nò	Nò		
Special Supplies	No	No		
TV/ Radio Outlets	No	No		
Audio/Visual Systems	твс	TBC		
Audlo Systems	Induction loop system	induction loop system.		
Access Control	No	No		
CCTV	No	No		
Intruder Alarm	PIR Sensors	PIR Sensors		
Specialist Systems	No			
ACOUSTIC PERFORMANCE				
Upper Limit Indoor Ambient Nois	e Level - Equivalent NR		NR 38	
FINISHES				
Floor	Lino / vinyl sheet with	150mm x 19mm painted md		
Walls	Painted plasterboard o	Painted plasterboard on metal stud		
Ceiling	Suspended M/F system	Suspended M/F system, painted plasterboard with acoustic tiles		
Fitings / Sanitaryware		ly, sink, drainer and base uni netian blinds to windows.	t within built-in mdf shel	ving and cupboards to
				Date : 10,02,14 Revision A

Twickenham Community Building

Technical Master Plan 11 July 2013

SUMMARY

This issue of the Technical Master Plan has been prepared to advise the Design Team on those aspects of the design that need to be developed to allow the correct functioning of the proposed Community Building and to provide preliminary information on the equipment to be installed.

No design, brief has been prepared by the Council. However the functions for which the theatre is anticipated to be used include drama, dance, music, rehearsals and showing of films. The performance space should offer an end-stage, as well as flatifloor. It will be used with limited scenery and reasonable facilities should be included for this in terms of access and suspension of masking and curtains.

I TECHNICAL SPACES

- 1.1 CONTROL ROOM: A combined lighting and sound control room is:envisaged with space for both control desks with a double-glazed sliding window in front of the sound operator and suitable controllable task lighting over the desks which will not spill out of the windows. A clear view of the performance area is required: The room is required to be soundproof although opening windows are provided.
- 1.2 SIDE PRODUCTION LIGHTING POSITIONS: Vertical 48.3 mm. OD pipes will be installed, two on each side of the auditorium to carry production lighting luminaires on standard boom arms clamps. These lights are important in providing the lower side lighting.
- 1.3 SOUND MIXING POSITION: A location is required in the auditorium for a sound mixing deskifor musical performances. This might be either at the front of the first gallery, or on the lower floor area; the infrastructure might offer both options.
- 1,4 DIMMER I-AMPLIFIER-ROOM: A-space: of: approximately-6m? needs: to-be: allocated? for the atre- and house lighting dimmers.

2 RIGGING EQUIPMENT

- 2.1 OVERSTAGE SUSPENSIONS: An Aluminium mother grid will be suspended over the acting area, suspended on four chain hoists. These, will be provided with alloy bars for scenery, legs and borders, curtain tracks and lighting bars. Distributed dimmers will be mounted on the truss, supplied by wiring on a cable management system from above. See marked up drawing for anticipated load on the structure.
- 2.1 AUDITORIUM LIGHTING TRUSS: An aluminium truss frame will be suspended on chain hoists above the seating area to provide front of house lighting. Distributed dimmers will be mounted on the truss, supplied by cable reeling drums from above.
- 2.3 HOUSE CURTAIN: A hand drawn house curtain and track will be suspended from the mother grid over the acting area.
- 2.4 GURTAIN TRACKS: 2 proprietary theatre curtain tracks on the mother grid for mid stage; and rear stage draw curtains

- 2.5 MASKING CURTAINS: A set of masking curtains, legs and borders to provide wings and to mask overstage lighting in fireproof black wool serge and with suitable ties will be provided.
- ACCESS EQUIPMENT: A hydraulic platform will be provided to allow safe access when focusing lights on the trusses at high level.

3 SEATING

3.1 SEATING: Refer to Architects report for details of proposed seating.

4 THEATRE LIGHTING

- STAGE AND HOUSE LIGHTING DIMMERS: The majority of the stage lighting will be supplied by distributed dimmers. However circuits in the stage area and on the side walls of the auditorium will require dimmers installed in racks in the Dimmer Room. Dimming for both stage and house lighting will be able to be controlled by the installed lighting desk using industry standard DMX protocol. An installation of some. 24x 10A (2 kW) stage lighting dimmers, and 6 non-dim in the dimmer room; plus 36 circuits of distributed dimmers. All circuits are to be protected by RCDs. House lighting needs to be very flexible and to be augmented by some high-intensity switched lighting for non performance uses of the auditorium.
- 4:2 PRODUCTION LIGHTING OUTLET BOXES: Industry standard 16A. Geeform outlets mounted in purpose made boxes (PLBs); for stage lighting circuits. These are to be located in specific positions around the stage; and in the auditorium.
- 4:3 WORKING LIGHTING SYSTEM: High efficiency lighting providing 500 lux over the whole floor area. Controls at floor level and in the control room to provide separate zones over the seating and performing areas. Low level blue LEDs around the stage area for use during a performance.
- PRODUCTION LIGHTING CONTROL SYSTEM: Industry-standard manual / memory production lighting-control-desk-sized and-selected to provide good-lighting facilities for community shows but configured in such a way that it can be extended or used with an additional desk for special productions. The Desk can control house lighting dimmers in addition if required.
- HOUSE LIGHTING: Fully dimmable LED fittings to provide 200 lux over the seating area. Pre-set control system for auditorium lighting to be operated from the lighting control room or downstage corner. Also controllable by the production lighting desk
- REMOTE CONTROL INSTALLATION: Wiring to allow for the use of remote colour changers, moving lights and similar equipment. This basic wiring also permits control of dimmers from alternative desk positions and control of any additional temporary dimmers used on stage. This is a facility which can be used for more advanced productions and it is not envisaged that any remote colour changers or moving lights be provided as part of the initial installation. These can be hired in on a show by show basis as required. The system will be wired in Cat 5E cable so that it can be used in the future for Ethernet control as it becomes available.
- PRODUCTION LIGHTING LUMINAIRES: Much of the stage lighting equipment will be sub killowatt high efficiency units. A range of luminaires, including profile spots, freshels, and cyclorama floods, will be provided. This complement of equipment will be able to be extended by future purchases and the hire of specials and effects equipment, but will enable locally-produced shows to be lite satisfactorily.

4.8 LIGHTING RIGGING AND ACCESSORIES: In order to rigiand use the luminaries, multicore and single circuit extension cables, splitters and similar will be provided. Some limited spares and a basic supply of colour will be included.

5 SOUND AND COMMUNICATIONS

- SYSTEM DESCRIPTION: The overall sound and communications systems will include the cabling infrastructure, fixed and portable loudspeakers, sound mixing facilities, microphones, sound reproduction equipment, assisted listening system, performance control systems, paging and show relay. The equipment and systems will be provided by a specialist Sound Contractor who will also provide and connect all the cabling and facility panels forming the terminations of the wiring infrastructure. The containment and for the sound, audio-visual and communications wiring will be installed by the Project Electrical Contractor
- WIRING INFRASTRUCTURE: This is the wiring between all sound, communications, video and similar equipment throughout the building. This terminates on outlets which appear on facility panels around the building and in equipment racks in the control room and amplifier room. Both permanent and temporary sound, communications and video equipment can be interconnected using this infrastructure, allowing microphones, loudspeakers, ring intercom units and similar to be set up easily as required for each presentation. Industry standard connectors are used to permit additional equipment and any that is brought in, to be easily plugged up to the systems. Considerable flexibility is to be provided so that the installation can be used into the future; this will include the installation of sockets for surround sound loudspeakers.
- 5.3 PATCH PANEL: A patch panel will be provided in the control room to allow the connection of additional equipment.
- 5.4 LOUDSPEAKER INSTALLATION: Suitable auditorium positions will be provided where loudspeakers can be mounted and connected. The loudspeaker installation will be a distributed system suitable for speech, music and sound effects reproduction. The addition of sub-bass speakers will increase the range of use.
- 5.5 SOUND MIXING FACILITIES: A 1,6-channel digital sound mixer with appropriate outboard gear will be supplied.
- 5:6 MICROPHONES AND ACCESSORIES: A small selection of microphones, to enable basic speech or music reinforcement requirements to be met. Complete with cables, stands and accessories.
- 5.7 SOUND REPRODUCTION EQUIPMENT: Two combined CD:// DVD playbacks will be supplied in order to playback material from visiting companies.
- PAGING AND SHOW RELAY SYSTEM: A microphone in the hall and a monitor system will be provided to enable the sound in the auditorium to be reproduced in the dressing rooms and the control room so that the progress of the show can be monitored. This system will also provide the quality signal source for the show relay for assisted listening systems. The level of show relay can be adjusted locally in each dressing room. Paging to dressing rooms will be provided so that announcements can be made by a technician from the side of the Stage the Control Room. The paging calls override the show relay whilst in progress. Bells to warn the audience that the show is about to commence will be installed in foyer and audience toilets:
- ASSISTED LISTENING SYSTEMS: An induction loop will be installed to allow the hearing impaired to listen to the presentation without the need for any additional equipment. The audio source for this will be taken from the show relay system
- 5.10 PERFORMANCE COMMUNICATIONS: A single-channel industry standard ring intercom system (consisting of belt-packs and single-sided headsets) for verbal show cues. Outlets for the ring intercom are

included in the facility panels described above.

- 5.11 OTHER FACILITIES: The sound and communications installations require a number of power supplies all derived from a single isolator on the main switchgear and not from "noisy" subsidiary circuits: In addition a low impedance technical earth will be required in the Control Room. The same earth and phase should be used for these services throughout the Centre.
- 5.12 VIDEO RELAY: As part of the infrastructure mentioned above, there will be provision to add a camera and video monitor(s) to facilitate the relay of the performance to front of house areas.

6.0 FILM PRESENTATION

- 6.1 PROJECTION EQUIPMENT: A digital projector will be provided, suspended from the auditorium truss. Sound will be reproduced on the installed sound system with the possible addition of extra loudspeakers when required for major presentations: Playback equipment for DVD and Blu-ray Discs will also be provided.
- PROJECTION(SCREEN: A roll-down film:screen: will be suspended on an electric; hoist-fitted to the mother truss. No dedicated screen masking will be included. Fixed top and side masking will utilise a black border and legs supplied as part of the general masking.

7.0 LECTURE USE

7.1 LECTURE PRESENTATIONS: The same projector and screen mentioned above, together with the installed infrastructure will allow for a laptop to be plugged in on stage or in the control room in order to use the venue for lectures or conferences.

ENDS

Twickenham Community Building

Theatre Equipment Cost Estimates July 2013

All figures based on July 2013 prices

Read in conjunction with Technical Master Plan

STAGE RIGGING EQUIPMENT

Aluminium:truss-mother-grid over-stage area

Estimated cost £38,000

Auditorium lighting truss

Estimated cost £12,000

Gurtains and tracks, including house curtain and track, cross stage curtains tracks, masking curtains, legs and borders. Estimated cost £12,000

Hydraulic work platform

Estimated cost £8,500

Work by others - strong points for suspension. Electrical supply for hoists

SEATING

See Architects report. Cost estimate not included

THEATRE LIGHTING

Infrastructure: production: lighting dimmers and non-dims, data and control equipment.

Estimated cost £14,000

Working and house lighting fittings and control

Estimated cost £30,000

Equipment - Lighting control desk, DMX control, spot lights and flood lights,

Estimated cost £19,500

Work by others: mains and control wiring and containment, switchgear.

SOUND AND COMMUNICATIONS

Installed Wiring Infrastructure including - wiring infrastructure supply, termination, testing, racks, facilities panels.

Estimated cost £17,500

Paging and Communication — Paging and show relay speakers in dressing rooms and selected back stage rooms. Bar bells in fover and selected public spaces. Assisted Listening System in auditorium. Single channel ring intercom system.

Estimated cost £9,250

Theatreplan LLP 27 Colonnade London WC IN IJA

		l roudou AAC Ì
	nd equipment – Mixing desk, loudspeakers, amplifiers, playback equipressories.	ment, microphones and Estimated cost £48
Not	included: containment for wiring, installation of back boxes, technica	l power supplies.
PRO	DJECTION EQUIPMENT	
Digi	tal projector and rolliup projection screen	Estimated cost £9,0
СН	ECK, LIST FOR COST CONSULTANT	
The	following are items (inter-alia) which have NOT been costed above a	and for which provision mu
	le by the QS:	
	Steelwork Any hyliday's yearly in connection with any tacheless stations.	
	 Any builder's work in connection with any technical installations Painting and finishes other than on equipment 	•
	Sound proof doors	
	Fixed acoustic treatments	
	Stage smoke venting	
	Air conditioning or ventilation	
	Floor finish to stage; including specialist traps	
	Control Room windows, work-top, chairs and fürniture	
	 Power supplies, any mains wiring or containment (including prodequipment) 	luction lighting and power-t
	Distribution consoles for temporary power supplies	
	Containment for sound and communications wiring	
	House lighting fittings and wiring	
	Working lighting fittings and wiring	
	• IT wining and facilities; WIFI etc.	
	• Induction loop systems for ticket office, bars and other fover are	?as
	Tracked side panels to retractable seating unit, if required Main contractor's discounts, profit or overhead.	•
	 Main contractor's discounts; profit or overhead Any preliminary costs 	
	• Fees and VAT	
	vorá čino 1.2.	•

Twickenham Royal Mail Sorting Office Community Building

ACOUSTIC DESIGN CRITERIA REPORT HT:18898/DC Rev B

For:

St James St James House 26 Bridge Street Leatherhead Surrey KT22 8BZ

2 July 2013 .

HANN TUCKER ASSOCIATES

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E-mail: Enquiries@HannTucker.co.uk www.hanntucker.co.uk

ACOUSTIC DESIGN CRITERIA REPORT HT:18898/DC Rev B

CON	TENTS	Page
1.0	INTRODUCTION	1
2.0	ACOUSTIC TERMINOLOGY	1
3:0	STÄNDARDS AND GUIDELINES	
4.0	ACOUSTIC DESIGN TARGETS	1
5.0	CONCLUSIONS	4
APPE	ENDIX	

1.0 INTRODUCTION

This report proposes acoustic design criteria for the Community Building proposed as part of the Former Royal Mail Sorting Office development. The criteria and our advice fall into the following categories:

- Indoor Ambient Noise Levels (from external noise intrusion & building services);
- Internal sound insulation (airborne and impact);
- Rain noise:
- Reverberation:
- Building Services Noise.

2.0 ACOUSTIC TERMINOLOGY

Please see Appendix A attached for an explanation of the acoustic terminology used in this report.

3.0 STANDARDS AND GUIDELINES

3.1 Employer's Brief

Hann Tucker Associates has not received a specific brief from the Employer regarding acoustics.

3.2 Building Regulations

There are currently no mandatory design requirements for performance venues:

3.3 Local Authority Requirements

Plant noise emissions will be designed to 10dBA below recorded background levels in accordance with the Local Planning Authorities requirements in order to protect the interests of local residents and other potentially noise sensitive areas.

The following report presents preliminary advice based on good acoustic design practices.

4.0 ACOUSTIC DESIGN TARGETS

4.1 Indoor Ambient Noise Levels

Indoor ambient noise levels are to include contributions from external sources outside the premises (including but not limited to, noise from road, rail and air traffic, industrial and commercial premises) as well as internal building services sources.

The following table presents the upper limit of indoor ambient noise levels in various internal spaces during normal ventilation conditions. For guidance,

Hann Tucker Associates

the equivalent NR levels are presented for rooms served by mechanical ventilation.

2 July 2013

Room Type	Upper Limit Indoor Ambient Noise Level, Langsomin (Equivalent NR)		
Auditorium	35dB	(NR30)	
Dance Space	35dB	(NR30)	
Atrium, Circulation Space, Changing Rooms, Corridors, Stalrwells	45dB	(NR40)	
Kitchens*,,Tőilets*	50dB	(NR45)	
Office, Admin	40dB	(NR35)	
Bar, Café	45dB	(NR40)	
Multi-Purpose 'Flexible' Space	40dB	(NR35)	
Conservatory (corporate, exhibitions, private hire)	35dB	(NR30)	

During rapid ventilation conditions, the above values can be increased by

Internal Sound Insulation 4.2

The performance standard shall be defined by the activity noise in the 'source' room and the noise sensitivity in the 'receiving' room in accordance with the following two Tables.

Type of Room	Activity Noise (Source Room)	Noise Tolerance (Receiving Room)
Auditorium	High	Very Low
Dance Space	Very high	Low
Atrium, Circulation Space, Changing Rooms, Corridors, Stairwells	Average	Medium
Kitchens*, Toilets*	Average/High	High⊩
Office, Admin	Average	Mèdiûm
Bar, Café	High	High
Multi-Purpose Flexible Space	Average	Low
Conservatory (corporate, exhibitions, private hire)	Average	Low

	D _{nt} (T _{mf,max}),w Activity Noise in Source Room				
		Low	Ачегаде	High	Very High
Noise Tolerance Receiving Room	High	30	35	45	55 ⁻
	Medium	35	40	50	55
	Low	40	45	55	55
	Very Low	45	50	55,	60

4.3 Reverberation Times

For preliminary advice, we recommend the following performance standards for reverberation times within different spaces and will need to be approved with Building Control.

Room Type	Mid Frequency Reverberation Times T _{mf} (seconds)
Auditorium	<1.0
Dance Space	<1.2,
Atrium, Circulation Space, Changing Rooms, Corridors*, Stairwells*	<1.5:
Kitchens*, Tollets*	<1.0
Office, Admin	·<1.0
Bar, Café	<1.0
Multi-Purpose 'Flexible' Space	<0.8
Conservatory (corporate, exhibitions, private hire)	<08.

4.4 Building Services Noise (Atmospheric)

The site lies within the local administrative boundary of the London Borough of Richmond upon Thames. We understand the local authority's criteria for proposed development are as follows:

Prior to the commencement of development, a scheme shall be submitted to and approved in writing by the local planning authority which demonstrates that the following noise criteria can be complied with and shall thereafter be retained as approved.

1. The cumulative measured or calculated rating of noise emitted from the proposed plant to which the application refers, shall be 5dB(A) below the existing background noise level or 10dB(A) below if there is a particular tonal or discrete component to the noise, at all times that the mechanical system etc. operates. The measured or calculated noise levels shall be determined at the boundary of the nearest ground floor noise sensitive premises or 1 metre from the façade of the nearest first floor (or higher) noise sensitive premises, and in accordance to the latest British Standard 4142; An alternative position for assessment/measurement may be used to allow ease of access, this must be shown on a map and noise propagation calculations

detailed to show how the design criteria is achieved.

- 2. The noise from the proposed plant must achieve the good to reasonable standard for internal noise levels detailed in Table 5 of BS 8233 'Sound Insulation and Noise Reduction for Buildings: C of P'.
- 3. The plant shall be supported on adequate proprietary anti-vibration mounts as necessary to prevent the structural transmission of vibration and regenerated noise within adjacent or adjoining premises, and these shall be so maintained thereafter. Reason: To protect the amenities of nearby occupants.

Based on the above requirements, and the results of our environmental noise survey, we recommend that the following plant noise emission criteria should be achieved at 1 metre outside the nearest residential property.

Position	Plant Noise Emission Criteria (dB re 2x10 ⁻⁶ Pa)		
	Daytime (07:00 – 23:00 hours)	Night-time (23:00 – 07:00 hours)	
1	42	30	
2.	. 32	30	
3	38	28	

Any plant with a tonal or intermittent characteristic should be designed to a noise levels 5dB lower.

5.0 CONCLUSIONS

A community building is proposed as part of the former Royal Mail Sorting Office Site.

No specific acoustic brief has been issued.

Hann Tucker Associates have recommended suitable criteria based on the requirements the Local Authority's requirements and good acoustic design practice.

Prepared by: Gareth Evans Senior Consultant

HANN TUCKER ASSOCIATES

Checked by: John Glbbs

Director

HANN TUCKER ASSOCIATES

APPENDIX A

ACOUSTIC TERMINOLOGY

- Decibel Used as a measurement of sound pressure level. It is the logarithmic ratio of the noise being assessed to a standard reference level.
- The human ear is more susceptible to mid-frequency noise than the high and low frequencies. To take account of this when measuring noise, the 'A' weighting scale is used so that the measured noise corresponds roughly to the overall level of noise that is discerned by the average human. It is also possible to calculate the 'A' weighted noise level by applying certain corrections to an unweighted spectrum. The measured or calculated 'A' weighted noise level is known as the dB(A) level.

Because of being a logarithmic scale noise levels in dB(A) do not have a linear relationship to each other. For similar noises, a change in noise level of 10dB(A) represents a doubling or halving of subjective loudness. A change of 3dB(A) is just perceptible.

- If a non-steady noise is to be described it is necessary to know both its level and the degree of fluctuation. The L_n indices are used for this purpose, and the term refers to the level exceeded for n% of the time, hence L_{A1} is the (A-weighed) level exceeded for 1% of the time and as such can be regarded as the maximum level.
- The concept of L_{Aeq} (equivalent continuous sound level) has up to recently been primarily used in assessing noise in industry but seems now to be finding use in defining many other types of noise; such as aircraft noise, environmental noise and construction noise.

L_{Aeq} is defined as the (A-weighted) notional steady sound level which, over a stated period of time, would contain the same amount of acoustical energy as the actual, fluctuating sound measured over that period (30 minutes).

D_{nT,w} - Weighted Standardised Level Difference (dB)

A single number quality characterising the on site airborne sound insulation performance of a construction, including transmission of sound via flanking paths (e.g. adjoining floors/walls).

The <u>higher</u> the $D_{nT,w}$ of a construction, the <u>better</u> its airborne sound insulation performance; the higher the $D_{nT,w}$ requirement, the more stringent the criteria.

R_w - Weighted Sound Reduction Index (dB)

A single number quantity characterising the laboratory based airborne sound insulation performance of a construction, independent of transmission of sound via flanking paths.

As with D_{nT,w}, the higher the R_w, the better the sound insulation performance; the higher the R_wrequirement, the more stringent the criterion.

L'inT.w - Weighted Standardised Impact Sound Pressure Level (dB)

A single number quantity characterising the <u>on site</u> structure borne sound insulation performance of a construction.

As L'nT,w represents a sound pressure <u>level</u> in a "receive" room ("source" room generates the sound, "receive" room receives it), the <u>lower</u> the L'nT,w of a construction, the <u>better</u> its structureborne sound insulation performance. Accordingly, the lower the L'nT,w requirement, the more stringent the criterion.

Since the level of reverberation in a "receive" room affects the difference in sound level across a wall or floor on site, $D_{nT,w}$ and $L'_{nT,w}$ include a correction for the "receive" room reverberation time (allowing comparison of values measured in various conditions).

Due to the varying target reverberation times in the various room types airborne and impact sound insulation has been specified in terms of D_{nT} (Tmf, max)w, and L'nT(Tmf, max)w, respectively, therefore taking into account the maximum mid-frequency reverberation time, T_{mf} (see below), in each "receive" room.

RT, RT₆₀, - Reverberation Time (secs)

Tor T₆₀

The time, in seconds, for a sound to decay by 60dB.

T_{mf} Mid-Frequency Reverberation Time (secs)

The arithmetic average of the reverberation time in the 500Hz, 1kHz and 2kHz bands.

D389 – Twickenham Project Community Building General Specification Schedule (Planning Stage)	All Products / Suppliers noted below are or equal approved. Revision A 26 th February 2014	St James Designed for life
Floor Finishes Entrance Area Theatre Back of House Toilets Multi Purpose Rooms Bar Area Conservatory	Floor tiling including skirting supplied by Nicholls & Clarke Group Travertine Range Vinyl flooring by Harlequin Cascade Vinyl flooring by Tarkett Safetred Dark Grey Engineered HW flooring by Havwoods Oak Natural Rustic Grade	http://www.nichollsandclarke.com/ http://uk.harlequinfloors.com/en/products-services/floors- overview/vinyl-floors/harlequin-cascade/ http://professionals.tarkett.co.uk/products/safety- floors/safety-floors/safetred-dimension http://www.havwoods.co.uk/search/havwoods- construction/havwoods-construction-engineered-wood- flooring
Stairs	Carpets by Heckmondwike Entrance & Transitions Range	http://www.heckmondwike-fb.co.uk/products/entrance- transition-area-carpet-tiles/
Wall Finishes All wall areas painted or tiled	Paint by Dulux Tiles by Nicholls & Clarke Group Travertine Range	http://www.dulux.co.uk/ http://www.nichollsandclarke.com/
Light Fittings (Generally) Entrance Area Theatre (general lighting) Back of House Toilets Multi Purpose Rooms Bar / Conservatory Stairs	IBL Lighting = Model 6167 IBL Lighting = Model 6166 MK white ceiling rose pendant IBL Lighting = Model 49428 IBL Lighting = Model 49428 IBL Lighting = Model 6011 IBL Lighting = Model 49436	http://www.ibl.co.uk/Products/Retail/131/401 http://www.ibl.co.uk/Products/Retail/131/400 Link not available http://www.ibl.co.uk/Products/Emergency/30/335 http://www.ibl.co.uk/Products/Emergency/30/335 http://www.ibl.co.uk/Products/Retail/126/367 http://www.ibl.co.uk/Products/Emergency/31/336

Painted MDF 150mm x 19mm Painted MDF 100mm x 19mm Flush painted 44mm thick fire doors Stainless steel finish	
Ideal Standard – Réf: S6966AC	http://www.idealspec.co.uk/catalogue/bluebook/doc- m/doc-m-wc-rooms/doc-m-close-coupled-left-or-right-hand- packs_p1279.html
Ideal Standard — Attitude Range	http://www.idealspec.co.uk/catalogue/platinum- book/brassware/modern/attitude/attitude-basin-classic- outlet-mixer_p1535.html
Ideal Standard – Contour HygenIQ	http://www.idealspec.co.uk/catalogue/platinum- book/urinals/contour-hygenig-bowl-fully-concealed- urinal_p2173.html
Tiles by Nicholls & Clarke Group Travertine Range	http://www.nichollsandclarke.com/
Trane – Range CCEB	http://www.engineer.trane.com/content/dam/Trane/en/Products/airhandlingunits/CCEB/CCEB-SLB001-E4 1211.pdf
<u>Mitsubishi</u> — Range Lossnay	http://www.mitsubishielectric.com/bu/air/products/lossnay.
Mitsubishi – Range City Multi PLFY	http://www.mitsubishi- electric.co.nz/product/group.aspx?cat=7859
	Painted MDF 100mm:x 19mm Flush painted 44mm thick fire doors Stainless steel finish Ideal Standard – Ref: S6966AC Ideal Standard – Attitude Range Ideal Standard – Contour HygenIQ Tiles by Nicholls & Clarke Group Travertine Range Trane – Range CCEB Mitsubishi – Range Lossnay

Back of house / toilets Space Heating	Stelrad – Range Planar	http://www.stelrad.com/uk/radiators/10/planar
Electrical Accessories	MŘ	http://www.mkelectric.com/en- gb/Products/WD/logicplus/Pages/default.aspx
Public Health SVPs	Wavin Osma ÚPVC	http://co- uk.wavin.com/master/master.jsp?products=products&middl eTemplateName=oc_middle_system_detail_III&FOLDER%3C %3Efolder_id=2534374305532312&c=products&p=/Assortm ents/006/006/External_006_Products/OSM/03/0301

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APPENDIX 6

Occupancy Schedule

Community Building

Former Twickenham Sorting Office

Occupancy Schedule - Individual Room basis

Floor level	Room Name	Max Occupancy;
Lower Ground Floor	Accessible wc	1
-	Lobbies & Corridor	Transient space
וו	Dressing Room 1	10
п	Dressing Room 2	10
н 	Ţecḥ Room	i
H,	Plant & Stores	Unoccupied
н.	Toilets & Showers	Transient space
Ground Floor	Foyer & lobbies	Transient space
н	Toilets	Transient space
11	Stores	Unoccupied
H -	Main Hall (no seating)	400
First Floor	Foyer & lobbies	Transient space:
"	Seated Auditorium	317.
51	Bar	50
n,	Control Room	2
Second Floor	Multi purpose Room 1	30
1 9 ·	Multi purpose Room 2	30
n!	Toilets	Transient space:
tt	Conservatory	60
	Lobby	Transient space
Third Floor	Multi purpose Room 3	30
n	Multi purpose Room 4	30
H	Toilets	Transient space
u)	Lobby	Translent space
н	Office	2
Fourth Floor	Multi purpose Room 5	30
n	Multi purpose Room 6	30
n	Toilets	Transient space
ii.	Lobby	Transient space
		Date : 26.02.14

Community Building

Former Twickenham Sorting Office

Occupancy Schedule:- Maximum Occupancy Per Floor level

Floor level	Notes	Max Occupancy
Lower Ground Floor		60
Ground Floor	Based on max standing occupancy within Main Hall	400
First Floor	Based on seated auditorium	317'
Second Floor		60
Third Floor	<u> </u>	60
Fourth Floor		60
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		Date : 26.02.14
		Date : 20.02.14

	CHAIR COMMUNITY BUILDING - COST PLAN 16 Updated RDS			I	Total			11
	IO VE OPTIONS			ļ		Total Sq Footage	17,550	<u> </u>
Ŧ				1				1 [:: .
1 0	Pascription	Quanti	ty	Unit	Rate	Total	±£ / ft2	Notes
⇉	oundations	r						
- i	oadbearing Piling	-						Note: Piling at LGF and GF levels now
	lies 25m deep		77	D.F	1,800.00	138,600.00	7.90	
ĪĒ	Pile spoil cart away Pile spoil cart away		544 157	m3 m2	30.00	16,330.55 13,698.00	0.93 0.78	
- }	Plang attendance Cutting down piles:	1	77	item	11,550.00	11,550.00	0.66	
		1	" †	nr	25.00	1,925.00	0.11	
	Secant piled wall to LGF basement Piles 12m deep 600mm	Ι	102	nr	864.00	88,506.00	5.04	800mm centres
	lies 12m deep 450mm	1	102	nr	648.00	66,379,50	3.78	800mm centres
	He spoil cart away: " Hing mat & removal - Inc above		543	m3 item	30.00	16,294.09	0.93	
Ē	Piling attendance	1	1	item .	15,300.00	15,300.00	. 0.87.	·
	Outling down piles Capping beam		.98	nr i	25.00 125.00	2,560.94 10,247.50	0.15	│
╬	Sheet piling - to main site entrance ramp	31	.00	m	1,250.00	38,750.00	2.21	Ave 12m deep
	Basement Foundation	1	<u>.</u>			1		The state of the s
Ę	Groundbeams 600°450 File caps for 2 piles	10	.98	riti Pir	1,500.00	16,396.00 15,000.00	0.93	<u> </u>
_IF	Pile caps for 3 piles Pile caps for 4 piles	3	.00	nr	2,000.00	6,000.00	0.34	
- 10	Core cap for group of 16 piles		.65	nr m3	250.00	20,000.00 13,912.50	0.79	
	ype if fill under LGF slab 250mm	273 757		m2: m3:	7.00	1,914,64 2,272.95	0.11'	
G	Cart away cont non haz 30% + 30% bulking	295	.48	m3	85.00	25,116.11	. 1.43	
+	Cart away inert 70% + 30% bulking	- 689	1.46:	m3.	25.00	17,236.55	0.98	
1	Basement LGF slab 250mm thick	-						
╌╁	n-situ concrete	86	8.38	тэ	128.00	8,752.64	0.50	
ΠĒ	O Caltite to LGF stab	- 68	9.38	m3 .	88.00	6,017,44	0.34	
	Formwork to edges Finish to concrete!		1.95 3.52	m2	12.00	983.40 547.04	0.06	
_ [Reinforcement, 120kg/m3		9.21.	tas	950.00	7,795.32	0.44	
1	3C Frame	1	$\overline{\cdot}$					
1,	Setaining wall to LGF - insitu concrete; 200mm to contin wall				•	-		
	Concrete wati 200mm - 3.75m high!		.46:	m3 _	128.00	7,887.20	0.45	<u> </u>
	formwork to one side of wall Sicker to walls:	245	.85	m2 m:	13.00	3,196.05 983.40	0.18	
٦	Reinforcement to walls, 65kg/m3		.00.	1	950.00	3,795.31	0.00	
	Finish to inside of contig walf E.o calilite concrete to walls		.46	m2 m3	40.00 88.00	5,408.70	0.00	
Ē	O drain cavity to walls	81	.95	•т.	70.00	5,736,50	0.33	
	comwork to ends - 9 Nr Construction joints / sundries 2%	:33	2%	:m	15.00 27.493.41	506.25 549.87	0.03	
	Drainage below ground		.52	m2	25.00	6,838.00	0.39	
	Ground water removal Removal of obstructions		.00	item item	1,000.00	1,000.00	0.06	
]	- 1		-			
_[Frame contractors preliminaries (excludes pilling)		10%		178,825.87	17,882.59	.1.02	Shill Service 198,70
╢	.Total Foundations		-			616,850.03	·35.15	
			1					
4	Shell & Core							
_†,	Frame .							
4,	3F, 1st ,2nd.3rd.4th and roof suspended stabs, 250-275mm					-		Control room slab and cantilevered bal
\Box			,					Countrol Local Sign and Californies Dal
	n-situ concrete EO Cantilever slabs	465	5.21	. m3 m2	128.00	59,547.14	3.39 0.00	See transfer beams
		2/	4.00	m	200.00	4,800.00	0.27	
	Step/recess in GF stab		4		** 1 :		. 2.44	Less Ribdeck to Theatre and Cons roo
ļ	Slegviecess in GF stab Formwork to soffits Formwork to edges	1,424	4.78 4.10	m2 m	30.00 12.00	42,743.40 4,969.20	0.28	
F	Formwork to soffils Formwork to edges Finish to concrete	1,42- 41- 1,80	4.10 7.30	m m2 *	12.00	4,969.20 3,614.60	0.21	
F	Formwork to soffils Formwork to edges Finish to concrete: Beinforcement, 120kg/m3	1,42- 41- 1,80	4.10	m	12.00	4,969.20		
F	Formwork to soffits Formwork to edges Finish to concrete: Reinforcement, 120kg/m3 . RC Transfer beam to 2nd floor	1,424 414 1,80 1,80	7.30 5.83	m m2 *	12.00 2.00 950.00	4,969.20 3,614.60 153,034.17	0.21	1
F	Formwork to soffils Formwork to edges Finish to concrete: Beinforcement, 120kg/m3	1,42° 41° 1,80° 1,80° 33° 88°	4.10 7.30 5.83 8.22 9.18	m m2*	12.00 2.00 950.00 128.00 30.00	4,969.20 3,614.60 53,034.17 4,892.16 2,675.40	0.21 3.02 0.28 0.15	
F	Formwork to soffits ormwork to edges finish to concrete: Beinforcement, 120kg/m3. RC Transfer beam to 2nd floor Concrete: ormwork Bebar	1,424 414 1,800 1,	4.10 7.30 5.83 8.22 9.18 4.59	m m2 m2 m3 m2 m2 m2 m2 m2 m2 m2 m2 m3	12.00 2.00 950.00 128.00 30.00 950.00	4,969.20 3,614.60 153,034.17 4,892.16 2,675.40 4,357.08	0.21 3.02 0.28 0.15 0.25	
F	Formwork to soffits Formwork to edges Finish to concrete: Reinforcement, 120kg/m3 AC Transfer beam to 2nd floor Concrete: Formwork	1,424 414 1,800 1,	4.10 7.30 5.83 8.22 9.18 4.59 9.48	m m2* ths m3 m2*	12.00 2.00 950.00 128.00 30.00	4,969.20 3,614.60 53,034.17 4,892.16 2,675.40	0.21 3.02 0.28 0.15	
F	Formwork to soffits Formwork to edges Finish to concrete Reinforcement, 120kg/m3 RC Transfer beam to 2nd floor Concrete: Formwork Rebar Formwork Rebar For for scaffold support towers to formwork	1,424 414 1,800 1,	4.10 7.30 5.83 8.22 9.18 4.59	m m2 m2 m3 m2 m2 m2 m2 m2 m2 m2 m2 m3	12.00 2.00 950.00 128.00 30.00 950.00	4,969.20 3,614.60 153,034.17 4,892.16 2,675.40 4,357.08	0.21 3.02 0.28 0.15 0.25	
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F F F F F F F F F F F F F F F F F F F	Formwork to soffits Formwork to edges Finish to concrete Fleinforcement, 120kg/m3. The Transfer beam to 2nd floor Concrete: Formwork Fleibar Floor to scaffold support towers to formwork Shear walls, 200mm (to lift/stair core) In-situ concrete Vall kicker	1,42- 41- 1,80 1,80 1,80 200 200	4.10 7.30 5.83 8.22 9.18 4.59 9.48	m2 ins m3 m2: ins m3	12.00 2.00 950.00 128.00 30.00 950.00 50.00	4,969,20 3,614,60 153,034,17 4,892,16 2,675,40 4,357,08 10,473,75	0.21 3.02 0.28 0.15 0.25 0.60	
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	Formwork to soffits Formwork to edges Finish to concrete Reinforcement, 120kg/m3. RC Transfer beam to 2nd floor Concrete: Formwork Rebar Formwork Rebar Formwork Rebar Formwork Rebar Formwork Rebar Formwork to staffold support towers to formwork Rebar Formwork to staffold support towers to formwork Rebar Formwork to staffold support towers to formwork Rebar Rebar Formwork to staffold support towers to formwork Rebar Rebar Formwork to staffold support towers to formwork Rebar	1,42- 41- 1,800 5: 33 8: 20: 9: 12: 46(13:2)	4.10 7.30 5.83 8.22 9.18 4.59 9.48 2.04 3.79 0.19 5.90 0.19	m m2 m3 m2 m3 m3 m m2 m	12.00 2.00 955.00 128.00 30.00 950.00 50.00 130.00 12.00 28.00 2.00	4,989,20 3,614,60 159,034,17 4,892,16 2,675,40 10,473,75 11,965,01 1,485,48 11,965,01 2,719,00 920,39	0.21 3.02 0.28 0.15 0.25 0.60 0.68 0.08 0.08	
	Formwork to soffits Formwork to edges Finish to concrete: Fleinforcement, 120kg/m3 . FLO Transfer beam to 2nd floor Concrete: Formwork Floar Fl	1,42- 41- 1,800 5: 33 8: 20: 9: 12: 46(13:2)	4.10 7.30 5.83 8.22 9.18 4.59 9.48 2.04 3.79 0.19 5.90	m m2 ins m3 m2 ins m3 m3 m2 ins m3 m2 ins m3 m2 ins m3 m	12.00 2.00 955.00 128.00 30.00 950.00 50.00 12.00 28.00	4,959,20 3,614,60 153,034,17 4,892,16 2,675,40 4,357,08 10,473,75 11,965,01 1,485,48 11,965,01 2,716,00	0.21 3.02 0.28 0.15 0.25 0.60 0.68 0.08 0.08	
	Formwork to soffits Formwork to edges Finish to concrete Fleinforcement, 120kg/m3. AC Transfer beam to 2nd floor Concrete: Formwork Fleibar Floor to scaffold support towers to formwork Shear walls, 200mm (to lit/stair core) In-situ concrete Vall kicker Formwork to sides Formwork to sides Formwork to softes Formwork to concrete Reinforcement, 120kg/m3 Columns, 200 x 500mm	1,42-41-1,800 5:	8.22 9.18 4.59 9.48 2.04 3.79 0.19 5.90 0.19	m m2 m3 m2 m3 m m2 m3 m2 m2 m2 m3 m3 m2 m2 m3 m2 m3 m3 m2 m3	12.00 2.00 955.00 128.00 30.00 950.00 50.00 12.00 28.00 20.00 950.00	4,989,20 3,614,60 159,034,17 4,892,16 2,675,40 4,357,08 10,473,75 11,965,01 1,485,48 11,965,01 2,716,00 920,39 10,492,39	0.21 3.02 0.28 0.15 0.25 0.60 0.68 0.08 0.08 0.15 0.08	
S	Formwork to soffits Formwork to edges Finish to concrete: Fleinforcement, 120kg/m3. FLO Transfer beam to 2nd floor Concrete: Formwork Floar Flo	1,42-41-1,800 55: 55: 55: 55: 55: 55: 55: 55: 55: 5	4.10 7.30 5.83 8.22 9.18 4.59 9.48 2.04 3.79 0.19 5.90 0.19 1.04	m m2 m3 m2 tos m3 m m2	12.00 2.00 955.00 128.00 30.00 950.00 12.00 28.00 20.00 950.00	4,989,20 3,614,60 153,034,17 4,892,16 2,675,40 4,357,08 10,473,75 11,965,01 1,485,48 11,965,01 2,710,00 920,39 10,492,39 2,714,40 6,723,36	0.21 3.02 0.28 0.15 0.25 0.60 0.68 0.08 0.05 0.05 0.60	
	Formwork to soffits Formwork to edges Finish to concrete Reinforcement, 120kg/m3. RC Transfer beam to 2nd floor Concrete: Formwork Rebar Reinforcement, 10 lit/stair core) Formwork to sides Formwork to sides Formwork to concrete Reinforcement, 120kg/m3 Columns, 200 x 500mm Formwork to sides Formwork to sides Formwork to concrete Reinforcement, 120kg/m3 Columns, 200 x 500mm Formwork to sides Formwork to sides Formwork to sides Formwork to sides	1,42-41-1,800 1-1,1,000 1-	4.10 7.30 8.22 9.18 4.59 9.48 2.04 2.04 9.19 5.90 0.19 0.019 0.019 0.088 2.32 2.32	m m2 ins m3 m2 ins m3 m m2 m2 m2 m2 m2 ins m3 m2 ins m3 m2 ins m2	12.00 2.00 955.00 128.00 30.00 950.00 50.00 12.00 28.00 20.00 950.00 130.00 2.00 130.00 23.00 23.00	4,989,20 3,614,60 153,034,17 4,892,16 2,675,40 4,357,08 10,473,75 11,965,01 1,485,48 11,965,01 2,716,00 920,39 10,492,39 	0.21 3.02 0.28 0.15 0.25 0.60 0.68 0.08 0.08 0.15 0.05 0.05	
	Formwork to soffits Formwork to edges Finish to concrete: Fleinforcement, 120kg/m3. FLO Transfer beam to 2nd floor Concrete: Formwork Floar Flo	1,42- 41- 1,800 5: 31- 8: 201 201 12: 46: 13: 46: 14: 29: 29: 29:	4.10 7.30 5.83 8.22 9.18 4.59 9.48 2.04 3.79 0.19 5.90 0.19 1.04	m m2 m3 m2 tos m3 m m2	12.00 2.00 955.00 128.00 30.00 950.00 12.00 28.00 20.00 950.00	4,989,20 3,814,60 153,034,17 4,892,16 2,675,40 4,357,08 10,473,75 11,965,01 1,485,48 11,965,01 2,716,00 920,39 10,492,39 -2,714,40 6,723,36 584,64 2,380,32	0.21 3.02 0.28 0.15 0.25 0.60 0.68 0.08 0.05 0.05 0.60	

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		1		
TWICKENHAM COMMUNITY BUILDING - COST PLAN 16 Updated RDS	Total	1		
NO VE OPTIONS		. 1		•
New items or re-measures		Total Sq Footage	17,550	

	New Items or re-measures - 1992 - 1992 - 1992 - 1992		·			Total Sq Footage	17,550	
Conl	Description		Quantity	Unli	Rate	Total	£/f12	Notes
	Formwork to sides	Η-	10.75	_ m2	40.00	429.83	0.02	{
	Finish to concrete	H	10.75	m2	10.00	107.46	0.02	l
	Reinforcement, 120kg/m3	1	0.13	tns .	. 950.00	122.50	_ 0.01.	
	Shear links	T	3.00	ŊΓ	100.00	300.00	0.02	
							- '	
	Joints & Sundries	Ш	3%		252,960.73	7,588.82	0.43	
			-					
-	Frame contractors preliminaries including mod	4	10%		260,549.55	26,054.95	1.48	
		+					<u> </u>	2/47/7/1927/25/7/25/7/25/2/286,604.50
		╁	- · · · ·				-	{ }
-	Staircase				-		—	Stairmaster
	LGF to 1st Stage - one + half stair	\top	2.00	levels	5,000.00	10,000.00	0.57	
	LGF core - one + half stair.	Π.	1.00	ievels	5,000.00	5.000.00	0.28	
	GF core - one + half stair		1.00	levels	5,000.00	5,000.00	0.28	
	1st core - one + half stair		1.00	levels	5,000.00	5,000.00	0.28	l
	1st core control room - one + half stair	 - .	1.00	leveis	5,000.00	5,000.00	0.28	! <u> </u>
-	2nd core - one + half stair 3rd core - one + half stair	╟╫	1.00	levels	5,000.00	5,000.00	0.28	┩.
	4th core - one + hall stair	l- ∤ -	1.00	levels levels	5,000.00	5,000.00	0.00	No stair
$\overline{}$	THE STATE OF THE S	H	-	107013	3,000.00		0.00	10 520
	Frame contractors preliminaries including mod	H	10.0%		40,000.00	4,000.00	0.23	
		m				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		36-14-64-69-75-02-25-44,000.00
		П						1
		П						
\square	Structural Steelwork	Ш		<u> </u>			<u> </u>	l
	Auditodum storshum tot to One Hear !	- -					<u> </u>	i
	Auditorium structure 1st to 2nd (bor inc root	H			-		<u> </u>	₹
\vdash	Bolt boxes cast into slab at 1st floor	H	19.00	:Nr	500.00	9,500.00	0.54	↑
	Columns	+	10.59	ins	1,200.00	12,710.40	0.72	1.1-
	Intermediate bracing @ 10%	CT.	1.06	Ins	1,300.00	1,376.98	0.0B	Using flat sections in wall?
	Beams	ĽĽ	17.51	ins	1,200.00	21,013.03	- 1.20	
	Fittings @ 5%	Ц	1,46	tns	1,300.00	1,895.53	0.11	.
_ · ·	Fire protection	ŀ-ŀ	359,13	m2.	25.00	8,978.29	0.51	.
	Ribdeck 80 by Hare Decking to 2nd floor for concrete placement	H	266.90	m2 ·	20.00	5,338.00	0.30	
-	Niboleck 60 by mare Decking to 2nd floor for concrete placement	H	200.90	mz	20.00	-5,338.00	0.30	{
-	Conservatory structure 2nd floor inc roof	H					-	i i————
		H	_				. ,	1
	Columns		0.51	tns	1,200.00	612.13	0.03	1
	Beams	П	6.14	ins	1,200.00	7,366.15	0.42] [
	Fittings @ 5%	Ц	0.33	tns :	1,300.00	432.16	0.02	
	Fire protection	Н	92.90	m2	25.00	2,322,48	0.13	↓
	Tata Roofdek D35 for Hydrotech roof.	┢╅	.115.62	m2	730.00	3,468.60	0.20	:
	Tata Housek District Hyprotecti Took.	H	1113.02	1112	30.00	3,406.00	0.201	第3条於[[6]] [1] [2] [2] [2] [3] [75,013.73]
	-	l-l·					0.00	THE PARTY OF THE P
	Scatfolding	m					-	1
	To Gross façade		1,713.70	m2:	35.00	59,979.48	3.42	External access
	Crash deck scaffold to auditorium	Ц	1,253.30	m3	. 20.00	25,066.00	1.43	Internal birdcage
-	Lift shaft birdcage	₽	88.32	m3	15.00	1,324.82	0.08	Internal birdcage
	BOH stage birdcage	Н	289.67	m3	15.00	4,344.98	0.25	Internal birdcage
	Roof:	ŀ₩					-	日子等压力的。
	1100	H						1
	Hydrotech, Insulation and ballast to 2nd terrace, 3rd cons,4th roof	H	456.60	.m2	125.00	57,075,00	3.25	Laid on concrete slab/D35 Roofdek
	Ballast stones to non-green roof area		228.30	m2:	11.65	2,659.70	0.15	
	Green Roof to 50%	Ц	228.30	m2	/45.00	10,273.50	0.59	
:	Louvred Screen	 .	39.40	m	100.00	3,940.00	0.22	┩├ ── ───
	Penetrations / sundries	H	1.00	item	5,000.00	5,000.00	0.28	╡├─ ─────────
	·	ŀŀ				-:-		↑ I
	Terraces	17	· :		f.		' l.	┧ ├
	Paving slabs	[]	156.60	m2	30.00	4,698.00	0.27	EO roof finish
	Penetrations / sundries	П	1.00 :	item	2,000.00	2,000.00	0.11	
L		Ш	. 4 -		•			
 	Entrance canopy roof	H		m2	<u> </u>			{
\vdash	Lightweight metal/timber	H	15.06	m2	400.00	6,024.00	0.34	Inc finish and soffit
	Special leature around the front entrance door.	-	13.00	. item .	1,500.00	0,024.00	0.00	Omitted _
						[P CONTRACTOR - 12-12-12-12-12-12-12-12-12-12-12-12-12-1
	Architectural Metalwork	П	<u> </u>					
\square	Triple railing to edge of 2nd floor terrace wall	H		<u>[1]</u>	. 350.00	47.547.00	1	None
\vdash	Single railing to edge of 2nd & 4th floor terrace wall Brise Sotell	$oldsymbol{H}$	63.26	m	250.00	15,815.00	0.90	1 l
	Metalwork spiral staircase and new entrance detail	 -ŀ	282.48	m item	36,000,00	169,488.00 36,000.00	9.66 2.05	incl handrail, metal balustrade to stair only,
l	mesons shart demotor that light cuttoff north	H	1.00	negiti.	22,550,00	26/6000100	2,03	galv ms, open treads, non-slip treads
-	Signage:	-	1.00	ilem	2,500.00	2,500.00	0.14	A minimal about popularity and papers
\vdash	Soffil to ground floor entrance	H	1.00	m2	85.00	£,500,00	0.00	Inc in canopy
	Mansale to conservatory roof.	口	28.60	m	80.00	2,288.00	0.13_	
	Mansale to 4th floor roof	П	63.00	П	80.00	5,040.00	0.29	
	Steel columns to canopy	Ш		m	200.00	├	0.00	inc in canopy
	Bolt on balcony decking - curved	H	22.45	m2	950.00	21,327.50	1.22	Timber decking, metal floor, metal
	Bolt on balcony balustrading - curved	H				ļ	-	balustrade
1	Feature Spike	[− ŀ	<u> </u>	m. item	5,000.00		0.00	inc in balcony Excluded
†	Plant room louvres	tt	2.00	nem	1,000.00	2,000.00	0.11	At ground level
		 		<u></u>	1,000.00	- 2,000.00		102-154.55 - A SPANIE S. S. 254,458.50
	Brickwork	Ľ		i	-			
	Cavity Wall External skin of Facing Brickwork - Straight	口						
\sqsubseteq	Forming Cavity	μĬ	334.31	m2	1.50	501.47	₹0.03	4 k
├—	1/2 B wall in facings (£325/1000)	Н	334.31	m2	73.50	24,572.01	-1.40·	Internal skin in Drylining
	Carrie Molt Enternat akin of Engine Printment Connect	 -			-	-	 	-
-	Cavity Wall External skin of Facing Brickwork - Curved Forming Cavity	H	124.69	m2	1,50	187.03	0.01	1.1
	1/2 B wall in facings (£325/1000)	H	124.69	m2	88.50	11,034.84	0.63	Internal skin in Drylining
		1-1			50.50		J	1
	Cavity Wall External skin of Feature Facing Brickwork - Straight	Ц						
	Forming Cavity	口	211.46	m2	657 mm 38.50	7,718.44	0.44	Inc acoustic insulation to NR 30 - 3145550 2
				-				

-Total TWICKENHAM COMMUNITY BUILDING - COST PLAN 16 Updated RDS NO VE OPTIONS Total Sq Footage 17.550 Description Quantity Unft 1/2 B wall in facings (£350/1000) 211.46 m2 B5.00 17,974,44 Internal skin in Drylining Staffordhire Blue Brindle 0.00 Cavity Wall External skin of Metal Cladding - Curved 0.00 None Vone Vone 35.00 m2 Rainscreen cladding m2 600.00 Cavity Walf External skin of Render on blockwork m2 Forming Cavity 140mm blockwori 374.43 17,473.61 1.50 20.22 46 70.00 m2 0.02 1.00 Additional thickness of block % 556594 45% m2 Through coloured render 249.62 क्षर**ाड**ः 120.00 Cavity Wall External skin of blockwork for sign m2 Wall left temporary cover for sign: orming Cavity: 140mm blockwork 0.01 0.27 0.06 66.67 m2 100,31 4,680.90 1,003.05 Additional thickness of block 66.87 m2 Temporary cover 66.8 15.00 88.11 Parapet copings <u>ក្</u>រា ៤ B5.00 .7,489.35 0.43 Brick/stone band at 1st floor level 100.00 8,811.00 88.11 0.50 ·m Stone Window head 50.00 0.00 None #375-44-131,875.64 m Glazino Straight / facetted All glazing to be straight or facetted Composite windows 214.59 m2 350.00 75,107.31 Curtain walling - Schuco or similar 409.04 m2 500.00 204.518.90 11.65 Cavity Wall External skin of Metal Cladding 0.00 91.63 91.63 137.45 Forming Cavity Internal skin in Drylining Trespa or PPC panel .m2 1.50 Rainscreen cladding m2 300.00 27,489.54 External doors Fire Escape doors Fire Escape doors 2.00 7,400.00 coustic Single Single Pair ₹2,700.00 2,700.00 1,300.00 10,250.00 0.15 0.07 0.58 1.00 Acoustic Staircore door to roof Main entrance door in tramed glass 1.00 coustic **Acoustic** 1.00 Single Pairs 2,000.00 3,500.00 7,000.00 0.11 Door to bar balcony 2.00 Main Lift Shall walling 0.00 no in frame 2,500.00 1.00 2,500.00 Lift over-run Пſ Lift steels / sundries Goods / passenger lift to all floors 1.00 7.00 floors 5,000.00 35,000.00 Reduced spec to standard car finished 0.00 Lighting / power 2,000.00 item nc in Electrical Stage Lift 0.00 Shaft walling 38.40 300.00 Lift over-run 1.00 Uì 1.00 1,500.00 8,500.00 Lift steels / sundries 1,500.00 0.09 Plat form lift to LGF, GF & 1st floors: 8,500.00 D.48 As Theatreplan Inc in Electrical Lighting / power 1,500.00 Total Foundation 1,372,761.04 78.22 Fit Out 0.00 0.63 100mm blockwork walls ·m2 30.00 Acoustic tiles to rooms 2.10, 3.07, 4.01, 4.08 and 3.01 -≨277.00 1,078.59 40.00 11,080.00 20,493.20 m2 m2 o achieve NR 38 1,078.59 307.31 m2 19.00 70,108.30 5,838.94 41,091.29 Metsec to external wall Internal lining to basement wall Room partitions - metal struct, 2 layers pb both sides, skimmed 1,369.71 . m2 30.00 2.34 0.30 250.00 22.00 16.00 Dubicle partitions: _____
Screeds & Insulation Basement and GF £\$F 21.00 nr ₁m2 730.12 900.90 16,062.6 0.92 Latex and iscrubber 1st to 4th floor m2 Plasterboard Ceiling GF to 4th Only E.o Acoustics for NR ratings 1,374.20 AS ROS DE LOCUERS SUPPLIES 20,000.00 20,000.00 1.00 Doorsets LGF BOH 9,000.00 18.00 Double Doors Pr 1,000.00 4,000.00 0.23 GF - 4th · FOH Single Doors /500.00 13,500.00 0.77 27.00 Double Doors Toilet cubicle doors 16.00 1,000.00 16,000.00 0.91 Nr Inc in cubicles above Root - BOH Single Doors EO for Disabled bi-fold door kil শেশা ক্ষেত্ৰতে স্থানিক বিশ্বস্থানিক 500.00 500.00 0.03 66.00 *##52:4.00 Ŋſ 500.00 2,000.00 0.11 New item Joinery and Fittings

%ン5709.74:

0.22

To internal and extl walls

Skirtings

TWICKENHAM COMMUNITY BUILDING - COST PLAN 15 Updated RDS NO VE OPTIONS	Total			
I NO VE OF HONS	I	1-1	1	1
New items or re-measures		Total So Footage	17,550	

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	arradina.	lГ	0	1111	B-4-			L
Con	Description	Ļ	Quantity	Unit	Rate	Total	£/ft2	Notes /
<u> </u>	Ballet bar to one wall	+	1,00	. пг	400.00	400.00	0.02	.1 1
	Store shelving / sundries - small room.		7.00	. unr.	750.00	5,250.00	0.30	,
	Store shelving / sundries = large room Reception / idesk		1.00	nr.	1,000.00	:1,000.00	0.08	
	Dressing room make up counters:	-	1.00	Nr ∠m¹	9,000.00	9,000.00	0.51	1
	Dressing room wardrobes はマースを見ることをといっている。		16.48	m ·	500.00	8,240.00	0.47	New item RDS
	Sales area / desk Digital projector and zoom lens 5,500 ANSI lumens	- -	1.00	ilem.	5,000.00 4,000.00	-5,000.00 4,000.00	0.28	Theatrelech.
	Electric EP screen with handheld remote operation		1.00	ilem	2,500.00	2,500.00	0.14	Theatreisch
<u> </u>	Seating / Furniture other Signage	I-I-	1.00	ilem			0.00	None
┝──	Fire extinguishers	4	1.00 1.631.02	item m2	2,500.00 0.35	2,500.00 570.86	0.14	
	Blinds to flexible rooms	1	191.84	m2	30.00	5,755.07	0.33	
-	Sliding screens to bar - shutters - Fit out for Wet rooms to flexible spaces as Art Studios	Н	2.00	nr item	2,500.00 1,500.00	5,000.00	0.28	Bar measured below
	Telescopic mobile seating, including palette trucks, motorised	Ħ	1.00	item	65,000,00	65,000.00	3.70	Theatretech:
<u> </u>	deployment for 152 seats	Ц	`	1.	47.005.00	12.00.00		(
 	Fixed matching gallery seats 131 in total i Loose chairs and storage, 34 chairs	╁┼	1.00	item item	17,685.00 2,720.00	17,685.00 2,720.00	1.01 0.15	Theatretech: Theatretech
-	Stage	П.		item			0.00	Excluded
	Window blinds マッキー いっこう かんしゅう マット・マート かんしゅう いっこう いっこう Skiding glazed screen facing auditorium 3.6m x 0.9m マンス・マンス・マンス・マンス・マンス・マンス・マンス・マンス・マンス・マンス・	╂┼	134,40	m2: item	75.00 2,500.00	10,080.00 2,500.00	0.57	New item to 4.01, MP room 1,2,3,4,5,6 New item #352476 \$12505 \$12505
						12,000.00		######################################
-	Machanisal P Bublic Limithia	₩.	- :		•	_·_		
<u> </u>	Mechanical & Public Health	+			<u>.</u>	-	·	
	Public Health & HW/CW distribution	口						
	Sanitaryware - WC	╟	21,00	nr nr	362.00	7,602,00	0.43	Ideal Standard
	Sanitaryware - Disabled WC		%∺\$5 4.00	nr	400.00	1,600.00	0.09	Ideal Standard
تــــــــــــــــــــــــــــــــــــــ	Sanilaryware - Basins : Sanitaryware - Cleaners sink		等等: 28.00 L	nr _	367.00	10,276.00	0.59	Ideal Standard
"	Sanitaryware - Drinat	H°	8.00 8.00	nr nr	1325.00	_ :975.00 3,200.00	0.06	Ideal Standard Ideal Standard
	Sanitaryware - Shower		100.5 PEELS	nr	871.00	4,355.00	0.25	Ideal Standard
	Fittings for disabled toilets Hand dryers to tollets		23.00 3 23.00	nr	エセーマ#500.00 100.00	1,500.00 2,300.00	0.09	Ideal StandardIdeal Standard
	Toilet roll holders		25.00	Ut III	20.00	500.00	0.03	Ideal Standard
	Rainwater goods'	П	1,631.02	m2	8.00	13,048.16	0.74	Wavin Osma UPVC
_	Soil stacks CW - Boosted cold water, break tank and distribution	Н	1,631.02	m2 m2	5.00 15.00	8,155.10 24,465.30	0.46 1.39	Wavin Osma UPVC
	HW - 2nr VRF heat pump boilers (12.5Kw ea), 400f buffer vessel -,	tt	2.00	Ut	9,000.00	18,000.00	1.03	Ştrata
<u> </u>	NIBE HW - 2 pipe distribution and thermo mixing valves	Н	1,631.02	т2	10.00	16,310.20	0.93	
 ,		H	1,001.02	1112	10.00	- 10,310.20	0.93	
	Mechanical Systems	П		•				
<u> </u>	Heating and cooling - Air-Conditioning - Central AHU mounted on	╂╂	1,631.02	m2	75.00	122,326.50	6.97.	As Vector Design advice, Mitsubishi
	conservatory roof, ductwork through ventilation riser, fan coll units,		1,001,02.		1 ,0,,00	1,52,520.50	0,37	As vestor Design advice, Mitaupisis
	ceiling vents	Н	4.004100					
Ì.	Supply and Extract by displacement ventilation for Theatre, 4th floor roof mounted extract unit for tollets, kitchen and bars		1.631.02	m2	60.00	97,861.20	5.58	As Vector Design advice. Mitsubishi
	PV mounted on roof	П	1,631.02	m2	FBX 158 23.97	39,100.44	2.23	
	Dry riser Fire protection / Sprinkler system:	H	1,631.02 1,631.02	m2 m2	5.00 12.00	8,155.10 19,572.24	0.46 1.12	
┢	Auto Opening Vent at roof level	H	1,631.02	m2	5.00	8,155.10	0.46	· · · · · · · · · · · · · · · · · ·
_		П					0.00	
	Electrical Systems	Н				,.		MK Fittings
├	Incoming supply 400A 260KVa Power distribution from MCCB panel via sub mains to split metered	Н	1,631.02	m2	20.00	nil 22 620 40	1.86	Excluded
i	boards on each floor with dedicated boards for lift, bar, kitchen, theatre	Н	1,031.02	IIIZ	20.00	32,620,40	,1.56	
<u>'</u> -	·	Ш					<u> </u>	
\vdash	Small power, boxes; equipment _ General Lighting throughout the building; PIR's and controls, extl	╁┼	1,631.02	m2 m2	40.00 ¥0.00	40,775.50 65,240.80	3.72	More regd on upper auditorium " Excludes specialist Theatre lighting below
	Distribution of fibre data and telecomms cable from incoming	Ħ	1,631.02	m2	2.00	3,262.04	0.19	Satelite dish to roof not required.
<u> </u>	distribution point	H						
	CCTV to be recorded not monitored Fire detection and Alarms	H	1,631.02	m2 π2	5.00 7.50	8,155.10 12,232.65	0.46	-
<u> </u>	I pod speaker system to Dance Studio	П	21	item	1.00	;	0.00	Inc in TheatreTech
 	BMS/Data Cabling Test & Comission	H	1,631.02	m2 m2	5.00	35,882.44 8,155.10	2.04 0.46	As Vector Design advice Cat6 wiring 57 7856 As Vector Design advice
	O&M Manual	且	1,631.02	m2	1.00	1,631.02	0.09	As Vector Design advice
	Lightning protection system	П			<u> </u>	.nil		Not read as covered by adjacent building
<u> </u>	Theatre Lighting	H			<u></u>		 	
<u> </u>	General Lighting to the hall _	П	1.00	item	30,000.00	30,000,00	1.71	Theatretech!
 	2x24 dimmer racks, 48 circuits 1x12 independent non dim contractor rack:	╁┼	1.00	item	6,000.00 2,000.00	2,000.00	0.34	Theatretech:
	1x48 way part manual, part computerised lighting desk		1:00	item:	2,500.00	2,500.00	0.14	Theatretecht
<u> </u>	1x10 way DMX control signal splitter	Н	1.00	item	1,500.00	1,500.00	0.09	Theatrelech
	6x internally wired bars running across the auditorium Various production lighting socket outlet boxes	H	1.00	item item	4,500.00 2,000.00		0.26	Theatrelech Theatrelech
	Basic supply of stage luminaires and accessories	Ц	1.00	item	15,000.00	15,000.00	0.85	Theatretech
<u> </u>	Stage Lighting containment and cabling Lighting gantry / framework	Н	1.00	item	15,000.00	15,000.00	0.05	Theatretech:
Ŀౌ		廿					0.00	286,455.05
匚	AV.	14	1.00		<u> </u>			
\vdash	Control room facilities Specialist Audio containment and cabling	╁┼	1.00	item item	10,000.00 15,000.00	10,000.00 15,000.00	0.57	Theatretech Theatretech
	Equipment rack with amplifiers, EO digital signal processor, and loud	Ħ	1.00	ilem	8,000.00	8,000.00	0.46	Theatretech
<u> — </u>	speak patch bays			20.00				Theatraineh
	Portable source rack; with CD/DVD; flashcard, MP3/4 devices Portable audio mixer, analogue, say 16 into 2 channels	E I	1.00	item	3,500.00 3,500.00	3,500.00 3,500.00	0.20	Theatrelech Theatrelech
	Installed House Speaker System; central cluster and side columns:	η	1.00	ilem	2,000.00	2,000.00	0.11	Theatretech
	Facility Panets and plug in points	[-]-	1.00	ilem	3,000.00		0.17.	Theatrelech Theatrelech
 	Local House Control Public Address system throughout the entire building	 - -	1,00	item item	2,000.00	2,000.00	0.11	Theatretech
匚	Intercom	Ħ	•	item	<u> </u>		0.00	inc
		Щ		L	14.	-	Ц	J [

TWICKENHAM COMMUNITY BUILDING - COST PLAN 16 Updated RDS NO VE OPTIONS	Total		1	
New items or re-measures		Total Sq Footage	17,550	

Show relay Backstage Ring Intero Adio Loop I Ringring Aluminium	Communication ly microphone, amplifier, signal router, front of house and a speakers and simple stage managers microphone box							
Show relay Backstage Ring Intero Adio Loop I Ringrine Aluminium	ry microphone, amplifier, signal router, front of house and e speakers and simple stage managers microphone box	╂╼-					0.00	
Ring Interce Adio Loop I Riaging Aluminium	speakers and simple stage managers microphone box	_					0.00	
Adio Loop I <u>Riqqing</u> Aluminium			1.00	item	4,500.00	4,500.00	0.26	Theatrelech Theatrelech
Rigging . Aluminium	com amplifier, belipack and head sets of or hard of hearing, amplifier etc.	 	1.00	item :	1,500.00 2,500.00	1,500.00 2,500.00	0.09	Theatretech
Aluminium			- 1			3T.		1257 - Tel 2256 Benefit 274 : 55,500.00
	n truss mother grid	┧	1.00	item '_	40,000.00	40,000.00	2.28	Theatretech
	ints for technical suspensions		1,00.	ilem	5,000.00	5,000.00	0.28	New item
	s.:15 number across the auditorium and stage	1	1.00	ilem:	3,000.00	6,000.00 3,000.00	0.34 0.17	Theatrelech :
Draperies i	including a full set of woot serge masking curtains, legs		1.00	item*	6,500.00	6,500.00	_ 0.37	Theatretech (
	quipment, incluiding a 3 part ladder and a mini Zarges zip up tower		1.00	item	2,500.00	2,500.00	:0.14	Theatrelech
Casioleo zi	pup divide	<u> </u>				•		ENGRICO CONTRACTOR SE 9112 63,000.00
Metalwork		╁—				-		
, inclaimble		1			J			
	ing to Seated areas	╁	17.35 2.00	Dr Dr	250.00 900.00	4,337.50 1,800.00	0.25	MS galv MS galv
Void Balus	strading	1-	6.01	<u> </u>	450.00	2,704.50	0.15	MS gaiv
	Handrailing LGF to 4th floor (stairs not landings)	1	36.19 39.51	m	50.00 :€.*1⊈350.00	1,809.50 13,828.50	0.10 0.79	MS galv MS galv, glass infill panels:
	Balustrading LGF to 4th floor Handralling, stage staircase LGF to 1st floor (do)	-	2.47	m .	50.00	123.50	0.01	MS galv, grass irinii paneis:
Staircase E	Balustrading/ stage staircase LGF to 1st floor		29.19	m'	200.00	-5,838.00	0.3337	MS galv
Ladder to n	roof from 4th floor	┤	1.00	No '	500.00	500.00	0.03	SEPTIL-THE ENGINEERING SO. 941:50.
		1_					1 -	_
Vanity Unit	its and integrated panelling			- !		 ,	\vdash	
	es and units to female toilets - curved	1=	B.10	m	350.00	2,835.00	0.16	
	at toffets for integrated panelling at showers for integrated panelling	1	56.31	.m2	150.00	8,445.78	0.48	None .
SOATING OUT	л жилена ил инеунато развини						0.00	55.65.00 (1.280.78)
1100000	nd Dance Wall	+			,			
Mirrors and	ng Dance Wali	+			 -		-	
Mirrors to t		104.1	1F 22.10	m2	175.00	3,867.50	0.22	1.0m high
	dressing rooms and built in lighting Wall to Dance Studio	1—	17.91	m2: m2	200.00 175.00	3,582.00 1,750.00	0.20	1.0m high
			- 50,000					112 THE LEGISTER 1 218 LEGIS 9, 199.50
<u> </u>		-			·		· -	
	and Decorating		725			•		
Walls			3,070.24 1,204.60	m2 m2	6.00 5.00	18,421,42 6,023,00	1.05	As RDS; Dulux paints As RDS; Dulux paints
Ceilings Joinery - de	doorsets single		46.00	-171	30.00	1,380.00	0.08	Dulux paints
	doorsets double		20.00	nr	50.00	1,000.00	0.06	Dulux paints
Joinery - sl	skirtings		709.74	m	1.50	1,064.61	0.06	Durux paints [25.2702/25.889.03-
Floor Finis				$\overline{}$	W75 77 75 66	4 500 00	200	T- 010
- Screeds ge Ceramics	generally 2 to the section of the se	riss	:7:20.40i	m2	75.00	1,530.00	0.09	To LG10 and 11
Various			₹78.001	m2	45.00	3,510.00	0.20	Standard range
	ktg for tile sktg 不是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	- 23	#i 43.00 i	т2	5.00	215.00	0.01	G01,G02 inc
	M. T. C. C. B. C. A. C.	250	4x 21,891	m2	45.00	985.05	0.06	from RDS, Nicholls & Clarke
Safetread	1 Vinyl	-	:			-	1	. 图 28/18/25 对 25/25 25/25 25/25 6,240.05
Various !			1,145.201	:m2	30.00	34,356.00	1,961	Standard vinyt, Marley
	tingsCarty 是于76世纪位置的主要的一个中国中国	: 2532	252.54	m2	352,3⊆27,20.00	5,050.80	0.29	Standard vinyl, Marley
Wood floor		E 7-5	±215.00°	:m2	75.00	16,125.00	0.92	
HW Floori	ring to Conservatory	1,40	₹120.001	:m2	120.00	14,400.00	0.82	Havwoods
Carpet		1—		-				
		1			- 12.22	-		0
Various Half landin	ngs The Carlotte Market and Artist Address Artist		%141.00 % 40.00	m2	40.00 35.00	5,640.00 1,400.00	0.32	Heckmondwicke 8 flights + 8 landings
Treads and	nd risers to the rest of the r		5.136.00	_ m2	60.00	8,150.00	0.46	9 flights + 8 landings
Matwells		-	2.00	ВГ	2,500.00	5,000.00	0.28	
		1=			•			
Non-recov	overable VAT	-	0%		90,131,80		0.00	Cost omitted
			• • • • • • • • • • • • • • • • • • • •		-			5.76727070424242 E 00 90,131.80
Mastic		+	•			- '		-
: Mastic		13	7.549.78	ft2	0.30	5,264.93	_ 0.30	
<u> </u>	One.							সম্ভাৱন সাধ্যয়ের বাস্ট্রাক্তির বিশ্বর 5,264.93
Kitchen / B	•							
Bar to 1st		工	1.00	Nr	(学長6,000.00	6,000.00	0.34	min length of 5m, add data and telephone
	onservatory small combined with bar	4—	1.00	Nr Nr	7,500.00 10,000.00	7,500.00	0.43	Food re-heat only
- introduct - S	Single Assistance with the		. 1.00	- "	10,000.00	70,000.00		STATE CONSTRUCTOR 23,500.00
	Dos subite anode	4					. —	<u> </u>
Kitchen / E	Bar - white goods	+				<u> </u>		
Bar to 1st				Nr.	2,500.00		0.00	Excluded
	onservatory Small combined with bar		2,	Nr. s	2,500.00		0.00	Excluded
- Isabilati v								
		4					l 	11
Cleaner								
Cleaner		-	7,549.78	ft2	0.30	5,264.93	0.30	5.264.93
	·				- 			

	NO VE OPTIONS New items or re-measures					Total Sq Footage		17,550	
ani	Description		Quantity	Unit	Rate	Total	ſ	£ / ft2	Notes
	Total Fit Out	$\frac{1}{4}$				1,460,756.78	-[83.24	
_	Sub-Total Measured Works	1					Γ		
	200-10(2) Weasured Works	-			3,450,367.84		I-		· · · · · · · · · · · · · · · · · · ·
_	Other Costs -						t		
_	Fees	4			— <u> </u>	· ·	-		
_	Working Drawings	4	1.00	3	**:470 F40 00	FFE 173,518.39	-	- 2 22	
÷	Specialist Design	\dashv	1.00	item	E0 000 00	7917/24 50,000.00	-	9.89	-
	Operation pession	-	1.00	ныш	- 30,000.00	1.41.W.Ext.20,000.00	├	2.60	
_	Prelims	-1			 		┢		
	Main Contractors preliminaries	7	1.00	item		£≆⊕έ№ 520,555.18	┢	29.66	
-		7			-		-		
:	Abnormals	1	-		-				
Τ.	Apportionment from whole site abnormals	7	1.00	ilem	62,900.00	62,900.00	ľ	3.58	NEED THE PERSON
	(Excludes basement for flats)	7					r		7.01-0-1-122-0-1-2-1-1-1-1-1-1-1-1-1-1-1-1
	Externals	7					r		· · · · · · · · · · · · · · · · · · ·
	Apportionment from whole site externals		1.00	ilem	*>177,835.75	₹₩265 177,835.75	r	10.13	
_	(Excludes plot fencing; sheds)	1							
	Roads & Sewers:					-]	, E		
_	Apportionment from whole site roads and sewers	Ц	1.00	item	46,338.00	46,338.00	L	2,64	From Extl Works
	Excludes boosted water main for houses	4					I_		
_	Sub-Total Measured Works	-			4,481,515.17		I-		
_		4					L		
	Contingency	H			 		-		
_	COMMINGRICY	\dashv			n = -	20,000.00	╌	1.14	
÷	<u> </u>	-			 		- [-		
		-1			 		H		l
٦.		Ħ			·		ıŀ	-	######################################
	Total Other Costs	1	_			1,051,147.32	1	59.90	The second secon
Ė	<u> </u>				-		1		· .
7		Ī			ì		T		
_	Total Community Centre	1			1	4,501,515.17	\vdash	256.50	4,501
∹	· ·	-1			1	,==:,=::5117	-1		

Foundation Cost Shell Cost Fit out Cost

Documents used

Drawings.
DP.10.F.
DP.11.E.
DP.12.D.
DP.30.F and marked up elevations
DP.20.E and marked up elevations
Structural drawings Level2
Structural drawings Level2
Structural drawings LG, GF, 11.2, 3, 4, Roof

Documents
Theatre Plan July 2013
Vector Design June 2013 Report
Gillieron Scott Acoustic report July 2013
Gillieron Scott Acoustic performance report July 2013

ECTERNAL WORKS & UTILITIES Rev 8							136,407 110.00	30.03 Apartments to CC 12.40% Size to CC
Rem	600	Que	14597	Und	tun	Total	1/54M 1/04	Community Control
PLOT FENCING & RADINGS		<u> </u>	T			=======================================		Apportionment Basis
VehiclarGate & Poots			1		10,000.00	10,000.00	0.023 90.91	
Rospidary Fencing & Ballings		ioi	rat Pilot	T FENCIN	A RAILINGS	10,000.00	0.673 90.91	
Zin ralling in frant of Network rall fence			127	64	300.00	17,900,00	6.202 256.8s	- 3,346 ft2
Platings to River Corne ramp 1/200mm Ratings to River Crane ramp eye 500mm	\Box		41	~	500.00 500.00	70,500,00	0.191 236.30 0.150 136.36	
Low Level / Allings			126 50		250.00 900.00	31,500,00 25,000,00	6.231 266.36 6.383 227.27	1,591 62 2,850 62
Ea Pord pales			3	₩	1,000,00	5,000.00	0.383 277.27 0.037 45.45	570 ft2
E a angle gaths Accessit Fasc 4 To agent soundary	<u> </u>		4	-	500.00 MA.00	7,000,00 \$2,300,00	9.015 38.16 0.363 474.55	223 ft2
Close based Feeching Perfecting to one length of selvery : III, Hourdhing Vistoling brief to serve - Ecology 12 events			1 1	ten M	14,953.00 7,760,00	14,955,20	0.110 135.95	1,705 ft2
Watching brief to some - Network Rail	\square		,	141	1,770,00	1,770,00	9,657 70,53 9,641 16,69	202 ft2
Relings and repings to retained ramp		ł.	1	tem .	10,000.00	10,000.00	0.673 97.94	1,140 ft2
SCREEN & RETAINING WALLS '		TUTAL BO	UNDÚR!	Y FENCING	& RAILINGS	224,285.80	1,644 : 1,039.93	
1500 High Screen Well - with relings			32	-	342.00	U.E35.00	0.065 \$0.37	1,007 ft2
2000mm Brist Wall [new Level Walls To length of courts (new olso accounts feat o])			145	-	400.00 130.00	32,000,00 21,756.00	0.235 290.12 0.157 [17,77	
Returning Wall to Countyard	\Box		۱,	ji err	75,909.00	75,909.00	0.554 140.00	•
FOGIPATHS & PAYED SEFAS		TOTAL	LICHER	× 6 RETAI	MING MYTTE	134,494.00	1.015 1,750.04	
Reads Teyrols black paring		١,	,,, l	.	71.46	34,400,76	0.247 330.93	3,713 half of 81m2 (spik 50/50)
Porest bleck parting DBM Purring course beneath	\equiv	1,	,294 ,865	2	91.46 15.00	116,142.37 H, W3.100	0.057 1.054.9	
Parmprar of serve	\blacksquare	1.	A63		25,000	24,975.00	0.187 227.85 0.187 227.85	4,718 half of 629m2 (split 50/50)
Tampacadem Read E.o Tampacadem road for coloury & Cronite strip			573 573	~	101.67 15.00	91,799.40 0,795.40	0.427 S79.63 0.043 78.54	31,976 half of 629m2 (split 50/50)
Purrise pros. Orace System deserring	=		n l	=	101.90 94.49	3,639.13 76,639.36	0.007 37.08 0.567 606.63	1,213 one third 29,716 half of 629m2 (split 50/50)
Perrod Areas	\square	i,	.459 146	:	136.57 90.00	184,669,27 13,300,00	1,354 1,678,61	5,696 half of 90m2 (spits 50/50)
County and Innetic age York Rome Paying / Condent	ᆖ		85		125.00	10,635.00	0.078 95,59	
Cobbes Typher decryag			30 44	~	125,00 \$1,00	3,750.00 3,300.00	8.027 34.04 8.070 30.00	
Decting the discount was properlying / Bude to pottern area Became Waresprotting / Bude to beautyers area			325	~	100.60	32,500,00 36,100,00	6,236 295,47 6,365 326,16	
			- 1	·	٠ ا	612,479,95		
FOFT LANDSCAPING		ľ"	~~~	FA ISS 1	PAYED MEAS	812,179,92	4.794 5.945.27	
Turting POS - Limits - Control Shrub Planting			na	<u>-</u>	9.00	7,074.00	8.053 64.33	. BD6 : ft2
PCS - Feature Planting		,	363 ·	m2	15,200,00 75,00	15.000.00 27.725.00	8.700 247.50	1,710 R2 3,104 R2
POS - Feature plunting to position control one / emills / Condects POS - Feature Manifest Schween parting buys			213	m2 - m2	150,00 50,00	31,950,00 5,900,00	6.234 280.45 6.043 52.23	
POS - Practure Planting to position by Here Cross POS - Hedges / shrubs	\Box		1 (24)	Ne m2	25,000,00 50.00	25,000.00 18,130.00	6.18) 777.77 8.133 163.00	2,830 R2 2,069 · 82
Tree Planting \$,00m - 6,00m High 7,00m - 8,00m High - Becladwy must bell with perval areas		1 1	39 14	Erm Nr	950,00 1,500,00	13,150,60	6,241 301,36	3,779 02
E.O., For Tree Gril			29	Mr.	\$00,00	10,000,00	\$.154 190.91 \$,673 90.91	2,394 ₁ ft2 3,140 ft2
Marked Planters To POS across generally Vertical Green Wall Garen wall by River Cross wark way	\square		;	Mr Earn	10,000,00 30,000,00	10,000,00 30,800,00	9.073 40.91 9.220 - 272.73	3,420 RZ
R peerbook Crawn III. existing trees Septings to River Crame?			7	-	100.00 2,000.00	5,700,00 2,000,00	0.042 51.87 0.015 19.10	•
IBRIGATION FYSTEM			Ï	71.304.1	AMOS CAPING	341,640,60	1,774 1,700,45	
Impation to POS / Trees			.	Dark .	10,000,00	10,000,00	6.873 90.01	1,140 52
Egyptists / SADS system			ا «	w)	375.00	18,750.00	0.137 176.43	2,138 27
INTRANCE / WATER SEATURES			TOTA	L TRRIAN	MALSAN HOLL	21,794.00	0,711 761.76	
Water Feature -			.	Den	170,000.00	170,000.00	1,246 1,545.45	
*		TOTAL	(MTRAIN	NCE / WAT	DE PEATURES	179,004.60	1,340 1,545.43	
PATERNAL LIGHTING		1						
Cyternal Lighting Servet Light Coheren PC Serve Recessed Lighting Control Pazza PC SUM	\vdash		25	Ar .	1,500.00 25,000.00	37,500,00 25,000.00	0.375 340,91 8.193 127,37	4,275 ¦ ft2
			1		AL LIGHTING	62,506,00		
EXTERNAL STREET FURNITURE			1		AL DANIAN	B 2, 344F, 345	0.450 550.10	
Enemal Functions Waste Stee PC Sales CCTV			3	*	150.00 5.000.00	450,00	0.003 1.04	51 72
84.		- 1	.			76,000.00	0,513 636,16	7,980 ° R2
CATERNAL STRUCTURES / MULDINGS		TOTAL	EXTERN	HAL STREET	PROTESTORS T	70,456.00	0.516 640.45	
Timber Peopola Res s Best s Zue		31	*	m)	110.00	10,560.00	8.07 94.00	1,204 ⁻ ft2
		TOTAL EXTERN	NAL ETR	OCTURES	/ GUTLĎINGS	10,500,00	0.077 96.00	
PETERBAL HOUSE DRAINABE					ĺ	1-7		
General Provision for Sq. ft Houses SW Refa SW	=		7		950,000 2,590,000	26,600,00 5,000,00	0.195 341.83 0.037 45.45	
Commently Centre 5W Continuitly Centre FW			;	N N	2,500.00 2,500.00	2,500.00 2,500.00	0.016 22.73	2,500 f.il
277		1	- 1				0.015 22.73	2,500 full
TITLETT COMPANY CHARGES		1		MAL 110V	FE ORAINAGE	34,600.00	0.268 3)2.7)	
Water Disconnections for Demo-			1 1	lien M	7,000,00 400,00	2,000,00	0.015 10.18	
Apertments			;	Nr	10,000,00	11,790.00 10,000.00	0.007 101.67 0.073 96,91	
Landord Commercial	\square		i.	: Nr	DEL,004 CH,004	1,306.00 1,600.00	0.007 10.96 0.013 34.36	600 , one third
Sprinklers 5W Introstructurg Renidential	\vdash		110	No.	12.00 112.00	15,800.00 24,170,00	0,123 153.73 0,257 312.00	, ,
Commental FW Infrastructure Residential			3 110	, ikr Na	317,00	936.00	0.007 0.51 0,252 311.00	312 one third
Commercial			3 L	No	312.00	., 936,00	8,007 £.51	312 one third
Electric EARTY Charges >= Leverating Sectific Connection Charge Residential Incl substanton			1 .	Rem - Nr	2,000,00 1,200,00	2,000.00 232,000,00	0.015 16,18 0.948 1,200,00	15,048 ° ft2
Lacted Commercial			;	**	1,700 .00 1,700 .00	1,700.00 1,100.00	0.037 15.45 0.037 46,36	1,700 one third
Street Lightts Bolbret Lighting		,	u j	Hr Hr	500,000 500,000	4,500.00 6,000,00	0.033 40.91	513 .62
Ges Littler Charges Linconnections For Demo			1 20	Rem	500,00	500,00 9,000.00	0,004 4,55	
i gedind			1	Nr	350.00	150,00	0,003 3,14	<u> </u>
Commented Operation		1	1	ttr Item	350.000 36,000,000	10.050,02 00.000,00	0,000 9,55 0,264 327,77	350 yone third
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219,013 TOTAL BASE SASEMENT CONSTRUCTION 67 Spaces Retaining walls / shear walls Suspended basement disb Columns to besement See endosed basement bruskdown floms 1 See endosed basement bruskdown floms 2 See endosed basement bruskdown flom 3 67,315 159,995 57,141 244,593 Ramin 40,000 25,000 8,325 235,875 10,000 10,000 10,000 30,000 9,923 9,658 119,319 -25,929 10,000.0 For water feature
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Provisional Sum 30,000.00 8.00 15,000.00 2.000.00 30,000 16,520 15,000 2,000 2,063 Basement Electric & Lighting 0 389 All plant rooms at rraw height 3.80m Ramp wall Scaffolding to biocloverk walls 0 13,615 35.00 389 Curved ramp well PC Stair units GF to 1st Johns/sundries/Prelix Part m2 m2 22,000 8,000 400.00 400.00 55 . 20 Private stores Cycle stores Refuse stores Door Pair Door 2 1.000.0 2.00 Cleaners
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T 8,500 15,000 34 3 250.00 5,000.00 included included included included TOTA 1,291,273 Nr Ni Nr Nr . 18 Refuse bins Cycle racks Cycle racks 240 Ltre Galvanssed Eurobers Floor mounted, Sheffield £45 supplied Floor mounted, Efficient £55 supplied Bin puller 49.00 100.00 110.00 2,500.00 294 8,000 0 2,500 6 8D 0 1,000.00 10,000.00 25,000.00 10,000.00 128,000.00 Electric Car Charge Point
Allowance for landscaping upgrades to Heatham House
Elevational treatment to Network Rull Sub-Station
Elevational treatment to Any cottages 14,000 10,000 25,000 . 14 1 tam rr re TOTAL ASSOCIATION OF THE PROPERTY OF THE PROPE

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-	ROADS		
	Forming Relimouth Estate Road - DBM - 625mm Construction 80mm Block Paved Roads: E.O. For Conservation Kerb Concrete Sett Rumble Strip) Raised Table Top - Tegular Estating Roads re-surface - New road to basements	Item	
-	ROADSIDE FOOTPATH	TOTAL ROADS	
} ;	Estate Footpath - Tarmac - 180mm Construction E.O. For 150mm PCC Edging E.O. For Vehicular Cross Over	m² 32.03 lm i3.95 m² 65.90	
	STORM WATER SEWERS	TOTAL ROADSIDE FOOTPATH	
(:	SW Drainage Pump	300	7,500.00 966.15
	E.O. Road Gully Drain Test & Commissioning Boosted water main for sprinkler and water to houses Underground distribution and taank burial	20 Nr 500,00 1 1 1 1 1 1 1 1 1	1,000,00 128,82 52,500,00 6,763,07
· ;	Sewer Connection on site Outrats to river Storm Sewer CCTV Survey	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3,000,00 386.46 52,000.00 6,698.66
	FOUL WATER SEWERS	TOTAL STORM WATER SEWERS	211,250.00 27,213.30
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	STREET FURNITURE	TOTAL FOUL WATER SEWERS	147,960.20 19,060.29
ا <u>ت.</u> ر	Estate Road Sign Supply & Erect Street Light Columns Supply & Erect CCTV Camera & Column	2 hr. 250.00 Nr 1,341.00 Nr 2,000.00	
l		TOTAL STREET FURNITURE	500.00 64.41
		TOTAL ROADS & SEWERS	

Commer

21st August

Optiments

Surface water drainage all to outfalls although no indication of how to get to the outfalls shown, (le around the sports grounds)
Foul water drainage roughly measured with high end rates used - there should be savings here

Annexure 2 Deed of Release

- (1) THE MAYOR AND BURGESSES OF THE LONDON BOROUGH OF RICHMOND UPON THAMES:
- (2) ST JAMES GROUP LIMITED

DEED OF REL'EASE OF RESTRICTIVE COVENANTS

relating to

LAND LYING TO THE NORTH WEST OF BREWERY LANE, TWICKENHAM

SJS LAW

3 Crescent Stables 139 Upper Richmond Road London SW15 2TN Tel: +44 (0)20 8704 1643 Fax: +44 (0)20 8704 1641

Email: enquiries@sislaw.co.uk

This deed is dated

HM Land Registry

Dominant Owner's title number: MX150195

Administrative area: Richmond Upon Thames

Servient Owner's title number: MX262384

Administrative area: Richmond Upon Thames

PARTIES

- (1) THE MAYOR AND BURGESSES OF THE LONDON BOROUGH OF RICHMOND UPON THAMES of Civic Centre, 44 York Street, Twickenham TW1 3BZ ("the Dominant Owner")
- (2) ST JAMES GROUP LIMITED incorporated and registered in England and Wales with company number 3190056 whose registered office is at Berkeley House, 19 Portsmouth Road, Cobham, Surrey KT11 1JG ("the Servient Owner")

BACKGROUND

- (A) By a transfer dated 15 June 194 made between (1) The Mayor and Burgesses of the London Borough of Richmond upon Thames and (2) the Post Office, the Servient Land was transferred to the Post Office subject to the Covenants, which were taken for the benefit of the Dominant Land.
- (B) The Dominant Land is vested in the Dominant Owner and the benefit of the Covenants has not been assigned to any buyer of any part of the Dominant Land sold off.
- (C) The Servient Land is now vested in the Servient Owner.
- (D) In consideration of the Rayment by the Servient Owner to the Dominant Owner, the Dominant Owner has agreed to release the Servient Land from the Covenants on the terms set out in this deed.

AGREED TERMS

- 1. Interpretation
- 1.1. The definitions in this clause apply in this deed.

Covenants: the covenants set out in the Schedule to this Deed.

Dominant Land: the freehold property at Heatham House, Whitton Road, Twickenham and registered at HM Land Registry under title number MX150195

Payment: £10 (Ten pounds)

Servient Land: the freehold property at land lying to the north west of Brewery Lane, Twickenham and registered at HM Land Registry under title number MX262384

- 1.2. A **person** includes a natural person, corporate or unincorporated body (whether or not having separate legal personality).
- 1.3. The Schedule forms part of this agreement and shall have effect as if set out in full in the body of this agreement. Any reference to this agreement includes the Schedule.
- 1.4. Unless the context otherwise requires, words in the singular shall include the plural and in the plural shall include the singular.
- 1.5. A reference to a statute or statutory provision is a reference to it as amended, extended or re-enacted from time to time.
- 1.6. A reference to a statute or statutory provision shall include all subordinate legislation made from time to time under that statute or statutory provision.
- 1.7. Except where a contrary intention appears, a reference to a clause or Schedule is a reference to a clause of, or Schedule to, this deed and a reference in a Schedule to a paragraph is to a paragraph of that Schedule.
- 1.8. Clause, Schedule and paragraph headings do not affect the interpretation of this deed.

2. Release

In consideration of the Payment paid by the Servient Owner to the Dominant Owner (of which the Dominant Owner acknowledges receipt), the Dominant Owner releases the Servient Owner and its successors in title and the Servient Land and each and every part of it from the Covenants with the effect that from the date of this deed the Covenants are extinguished.

3. HM Land Registry

- 3.1. Promptly following the completion of this deed, the Servient Owner agrees to make a full and proper application to HM Land Registry:
- 3.1.1. to cancel any notice of the Covenants from the title of the Servient Land; and
- 3.1.2 to register this deed against the title to the Servient Land; and
- 3.1.3. where appropriate, to cancel any entries which may have been registered against the title of the Dominant Land in respect of the benefit of the Covenants.
- 3:2. The Dominant Owner consents to the removal of any entries which have been registered against the title of the Dominant Land in respect of the benefit of the Covenants.
- The Dominant Owner shall promptly and properly provide the Servient Owner with such reasonable assistance to enable the Servient Owner to answer any requisitions raised by HM Land Registry in connection with its application under clause 3.1.
- 3.4. Within one month of completion of the registration, the Servient Owner shall send to the Dominant Owner a copy of its amended Title Information Document, and the Dominant Owner shall, where appropriate, send to the Servient Owner a copy of its amended Title Information Document within one month of the cancellation of any entry in respect of the benefit of the Covenants.

4. Governing law

This deed and any dispute or claim arising out of or in connection with it or its subject matter or formation (including non-contractual disputes or claims) shall be governed by and construed in accordance with the law-of England and Wales.

5. Contractual rights of third parties

No term of this deed shall be enforceable under the Contracts (Rights of Third Parties) Act 1999 by a third party.

This document has been executed as a deed and is delivered and takes effect on the date stated at the beginning of it.

SCHEDULE

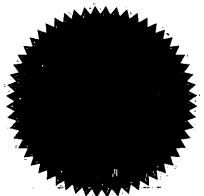
The following covenants imposed in the transfer dated 15 June 1984 and made between (1) The Mayor and Burgesses of the London Borough of Richmond Upon Thames and (2) the Post Office in respect of the freehold property known as land lying to the north west of Brewery Lane, Twickenham and referred to in Entry number 5 of the Charges Register of Title Number MX262384:

"For the benefit an protection of the land remaining in title number MX 150195 and each and every part thereof and so as to bind the land hereby transferred into whosoever hands the same may come (but not as to render the Post Office personally liable in damages after it shall have parted with its interest in the land hereby transferred to it or that part thereof in respect whereof of any breach of this covenant shall occur) the Post Office hereby covenants with the Council and persons deriving title under them that it will (a) at all times hereafter use the said land edged red as a car park and for no other purpose whatsoever (and that car park shall not mean a multi storey car park) (b) not to erect any building or structure of any kind whatsoever either movable or immoveable without first obtaining the Councils consent in writing and the grant of a planning permission shall not it be itself deemed to be an adequate consent for the purpose of this clause"

THE COMMON SEAL of the MAYOR AND BURGESSES

OF THE LONDON BOROUGH OF RICHMOND UPON THAMES was hereunto affixed in the presence of:-

) lly



Authorized Officer
Seal Reg. No. 2881/03

EXECUTED AS A DEED BY

ST JAMES GROUP LIMITED acting by

PETER KEMKERS

a director and

14893

SEAN ELLIS

a director

Director

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Director