ARCHITECT OURNA



standard

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No. 3445]

[Vol. 133

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★A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their addresses and telephone numbers. The glossary is published in two parts—A to li one week, Il to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

Institute of Landscape Architects. 1, Park Crescent, W.1.
Institute of Arbitrators. Hastings House, 10, Norfolk Street, W.C.2. ILA I of Arb Museum 3473

Temple Bar 4071 IOB Museum 7197 IQS IR Welbeck 1859 Avenue 6851 Hunter 1945 IRA ISE Sloane 7128 JFRO

Institute of Builders. 48, Bedford Square, W.C.1.
Institute of Quantity Surveyors. 98, Gloucester Place, W.1.
Institute of Refrigeration. Dalmeny House, Monument Street, E.C.3.
Institute of Registered Architects. 68, Gloucester Place, W.1.
Institute of Registered Architects. 68, Gloucester Place, W.1.
Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1.
Joint Fire Research Organisation (DSIR & Fire Offices' Committee).
Fire Research Station, Boreham Wood Herts. Elstr
Lead Development Association. 18, Adam Street W.C.2. W.
London Master Builders' Association. 47, Bedford Square, W.C.1. Ministry of Agriculture, Fisheries and Food. Whitehall Place, S.W.1. T.
Ministry of Education. Curzon Street House, W.1.
Ministry of Housing and Local Government. Whitehall, S.W.1. W.
Ministry of Labour and National Service, 8, St. James's Square, S.W.1. W. Elstree 1341/1797 LDA Whitehall 4175 LMBA Museum 3891 Trafalgar 7711 Hyde Park 7070 MAFF MOE Regent 8411 Whitehall 4300 MOH MOHLG

Ministry of Housing and Local Government. Whitehall, S.W.1. Whitehall 4300 Ministry of Labour and National Service, 8, St. James's Square, S.W.1. Whitehall 6200 Ministry of Supply. Shell-Mex House, W.C.2. Gerrard 6933 Ministry of Transport, Berkeley Square House, W.1. Mayfair 9494 Ministry of Works. Lambeth Bridge House, S.E.1. Reliance 7611 Natural Asphalte Mine Owners and Manufacturers Council. 14, Howick Place, Victoria Street, S.W.1. Victoria 1600 & 6477 National Association of Shopfitters. 2, Caxton Street, S.W.1. Abbey 4813 National Buildings Record. Fielden House, 10, Great College Street, Westminister, S.W.1. Whitehall 6554 National Council of Building Material Producers. 10, Storey's Gate, S.W.1. Abbey5111 National Employers Federation of the Mastic Asphalt Industry. 21, John Adam Street, Adelphi, W.C.2. Trafalgar 3927 National Federation of Building Trades Employers. MOLNS MOS MOT MOW NAMMC

NAS NBR

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NFBTE NFBTO

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82, New Cavendish Street, W.1. Langham 4041/4054
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Federal House, Cedars Road, Clapham, S.W.4. Macaulay 4459
National Federation of Housing Societies. 12, Suffolk St., S.W.1. Whitehall 1631
National House Builders Registration Council. 58, Portland Place, W.1.
Langham 0064/5 NEHS NHBRC

NJCBI National Joint Council for the Building Industry. National Physical Laboratory. Head Office, Teddington. Teddington Lock 3222.
Natural Rubber Development Board. Market Buildings, Mark Lane, E.C.3. NPL

NRDB Mansion House 9383 NSAS National Smoke Abatement Society. Palace Chambers,

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Whitehall 0211
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Royal Institute of British Architects. 66, Portland Place, W.1. Langham 5533
Royal Institution of Chartered Surveyors. 12, Great George Street, S.W.1.
Whitehall 5322/9245 RIB RIBA RICS

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Royal Society of Health. 90, Buckingham Palace Road, S.W.1.
Society of British Paint Manufacturers. Grosvenor Gardens House,
Grosvenor Gardens, S.W.1. RFAC Whitehall 3935 Regent 3335 Trafalgar 2366 RSA

RSH Sloane 5134 **SBPM**

Victoria 2186 Abbey 7244 SE SFMA Society of Engineers. Abbey House, Victoria Street, S.W.I. School Furniture Manufacturers' Association. 30, Cornhill, E.C.3. Mansion House 3921

Society of Industrial Artists. 7, Woburn Square, W.C.1.
Structural Insulation Association. 32, Queen Anne Street, W.1.
Scottish National Housing. Town Planning Council. SIA Langham 7616 SNHTPC

Hon. Sec., Robert Pollock, Town Clerk, Rutherglen.
Society for the Protection of Ancient Buildings.

55, Great Ormond Street, W.C.1. Holborn 2646 SPAB

TCPA Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.

Timber Development Association. 21, College Hill, E.C.4.

Town Planning Institute. 18, Ashley Place, S.W.1.

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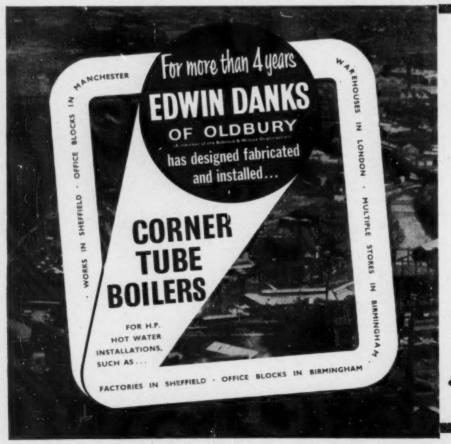
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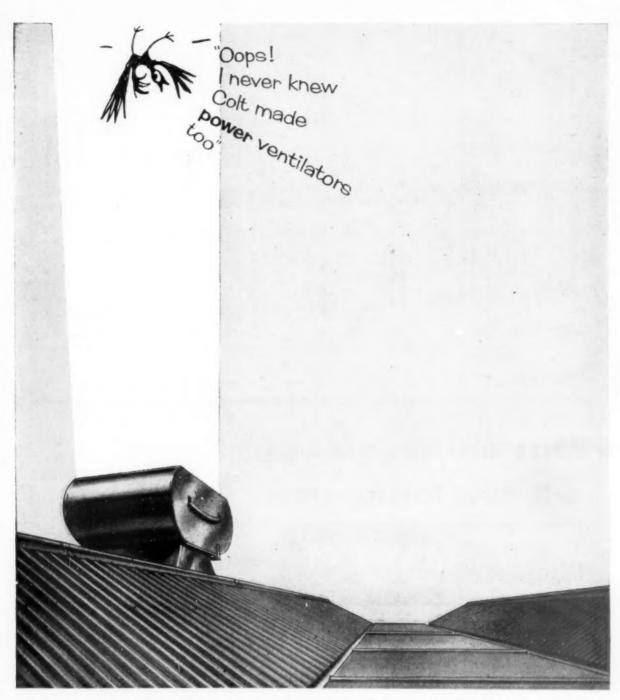




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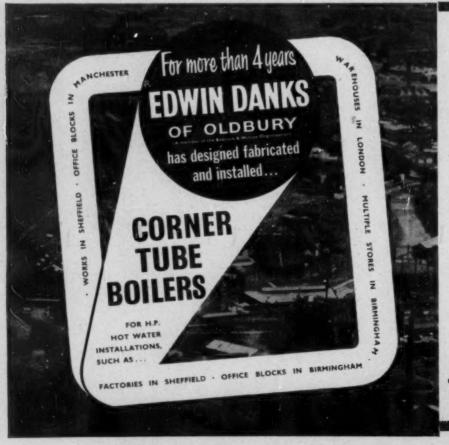
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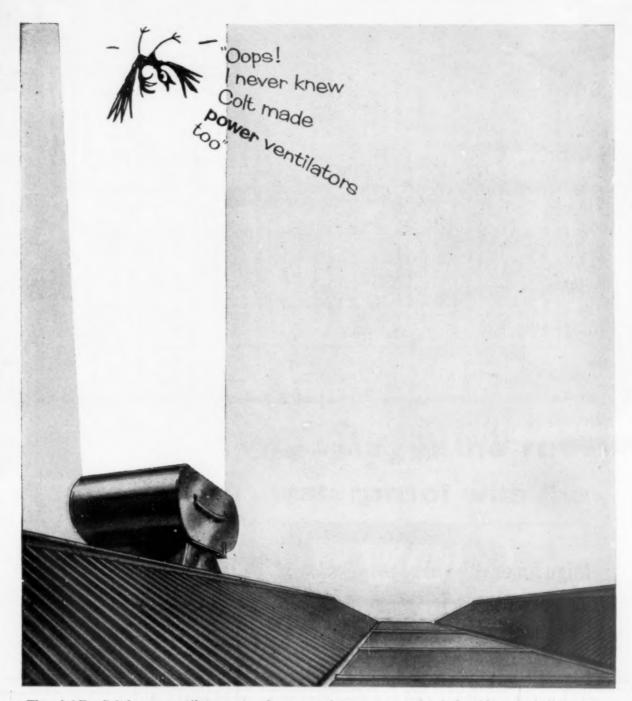




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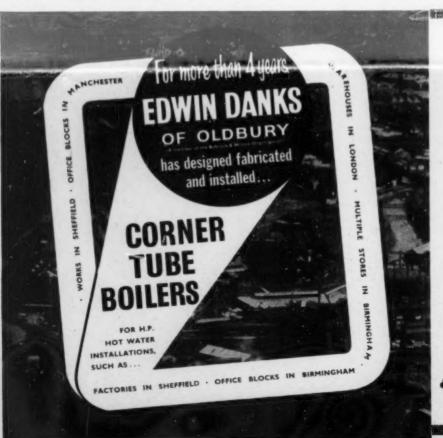
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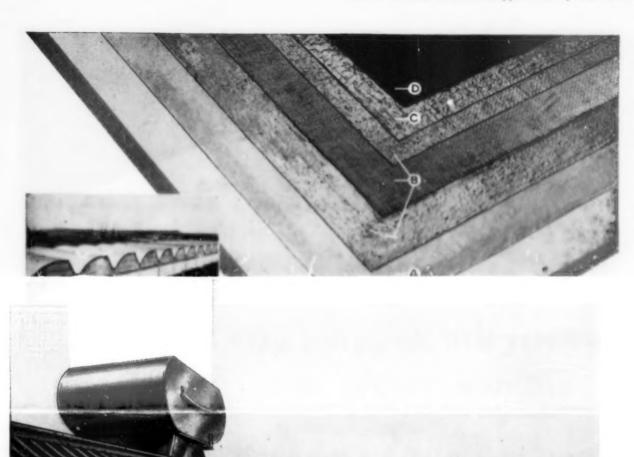




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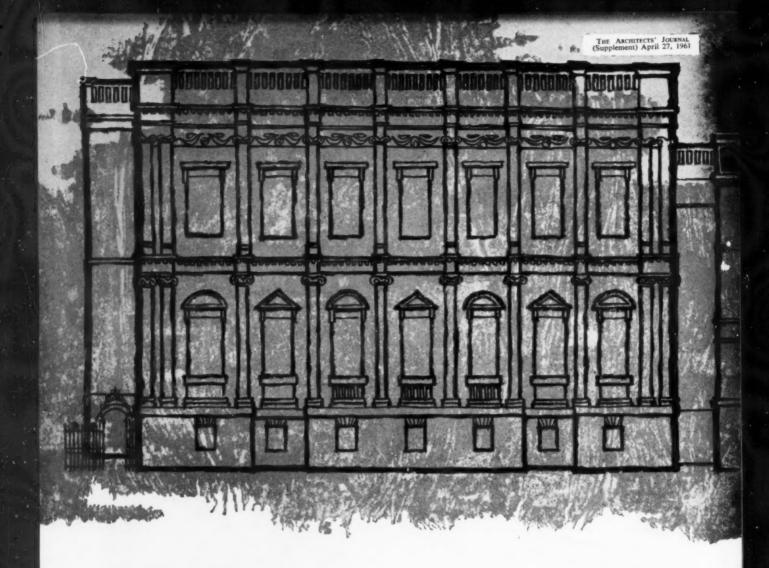


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${\bf Inigo\ Jones-} the\ first\ professional$

Inigo Jones was the first English architect in the modern sense, i.e. a professional man rather than a master-mason; but it must be confessed that he was in many ways quite different from the architect of today. He was never trained as such, and he started almost from the gutter. The only record of his parentage is that his father, a Smithfield meat-porter, was fined by a jury in 1581 for using bad language to a lady—a strange ancestry for a man who was to die as a famous courtier! At an early age, Inigo showed a talent for drawing; and, somehow, managed to study in Italy between 1597 and 1603 as the protégé of the Earl of Pembroke. Later, he appears to have worked for King Christian IV of Denmark, it was at this point that he came to be employed by King James I (who had married Princess Anne of Denmark), as a designer of stage-scenery and costumes for one of those "masques" or pageants which had been made popular by

Italian art and antiquities having become fashionable, it was natural that the organisers "hired one Mr. Jones, a great traveller, who undertook to further them much, and furnish them with rare Devices, but performed very little to that which was expected". So wrote a contemporary gossip-columnist in 1605, but in fact Inigo had secured a foothold on the Court ladder. He became Surveyor to the young Prince of Wales in 1611, and "Surveyor-

General to the King's Works and Buildings" in 1615. It was only then that he really blossomed out as an architect; and thereafter his architectural practice was only interrupted during a single year, when he was M.P. for Shoreham in Sussex.

A large number of buildings have been rashly attributed to him, but the only surviving works which are quite definitely his are the Queen's House at Greenwich (1616-35); the Banqueting Hall (now the Royal United Service Institution) in Whitehall (1619-22), intended as the first instalment of a huge new palace; the Chapel of Mariborough House, London (1623-6); and a few fragments of other buildings. Because his work was mainly for the Court, it naturally followed that it was interrupted by the Civil War in 1640. When he was 72 years of age, in 1645, he was arrested as a Royalist supporter, at Basing House, Hampshire, by Parliamentary troops, and fined. A contemporary reported that "there was the famous Surveyor, Inigo Jones who was carried away in a blanket, having lost his clothes". He had taken the precaution of burying his money in "Scotland-yard" just before this happened; and reburied it in "Lambeth-Marsh" soon after the House of Lords pardored him in 1646. (For all we know, it may still be there). After his release, he carried on a little practice, but died in 1652. The importance of his work is that he introduced into England the mature Renaissance architecture of Palladio the Italian.

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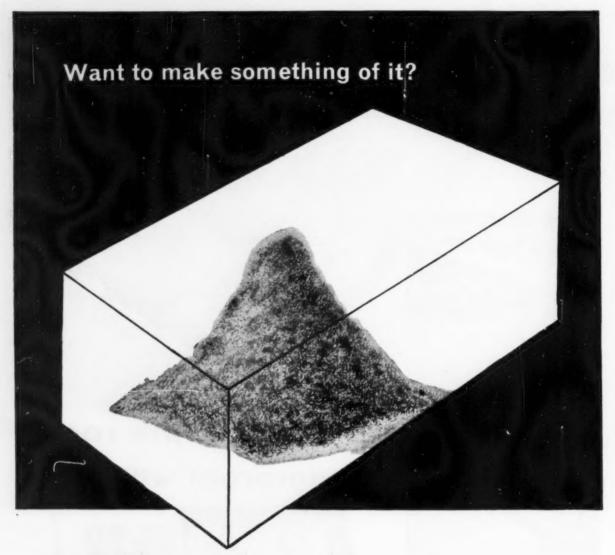


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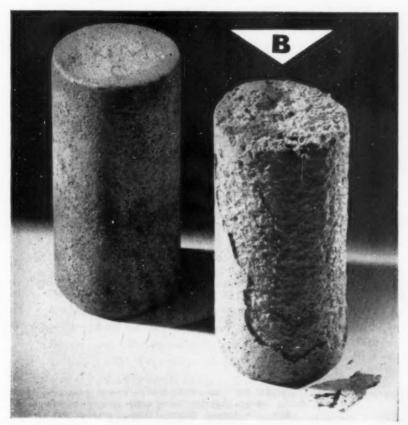
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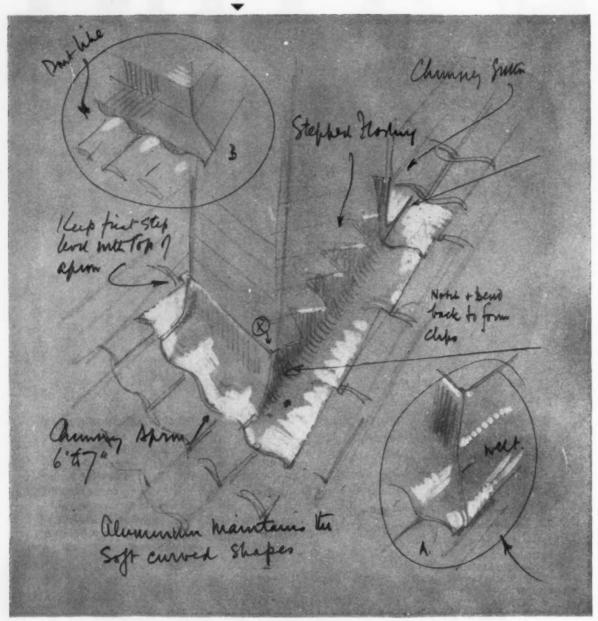
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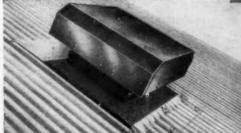
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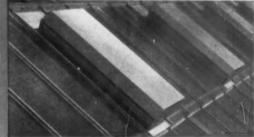
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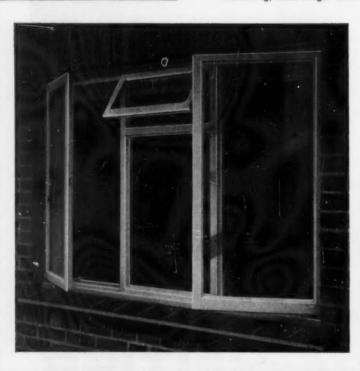
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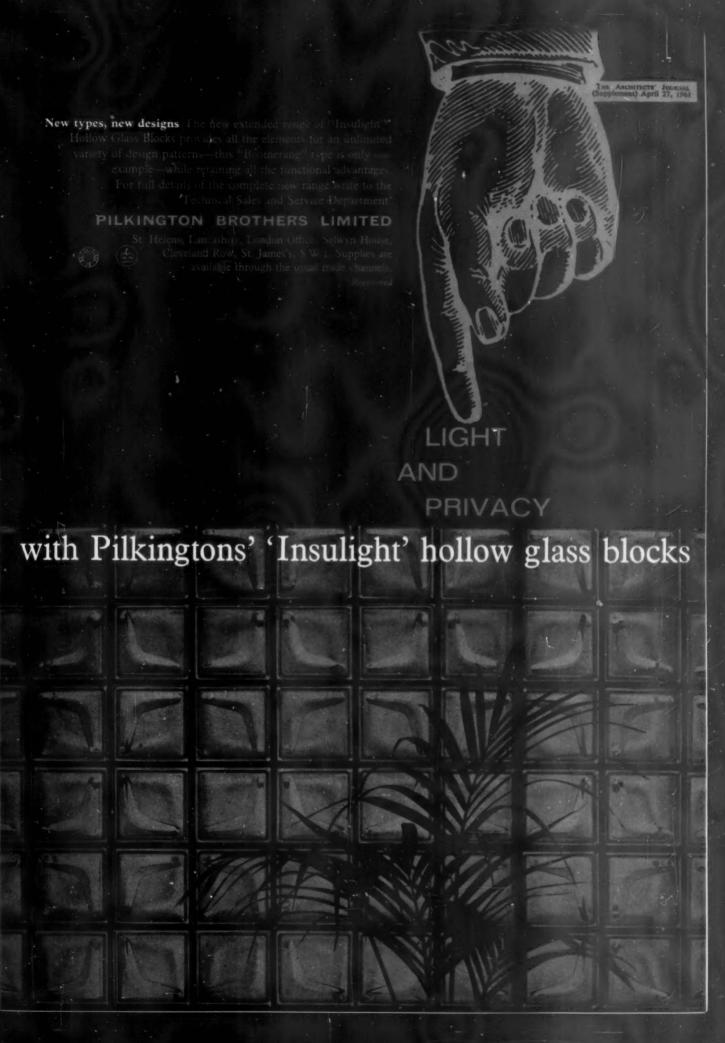


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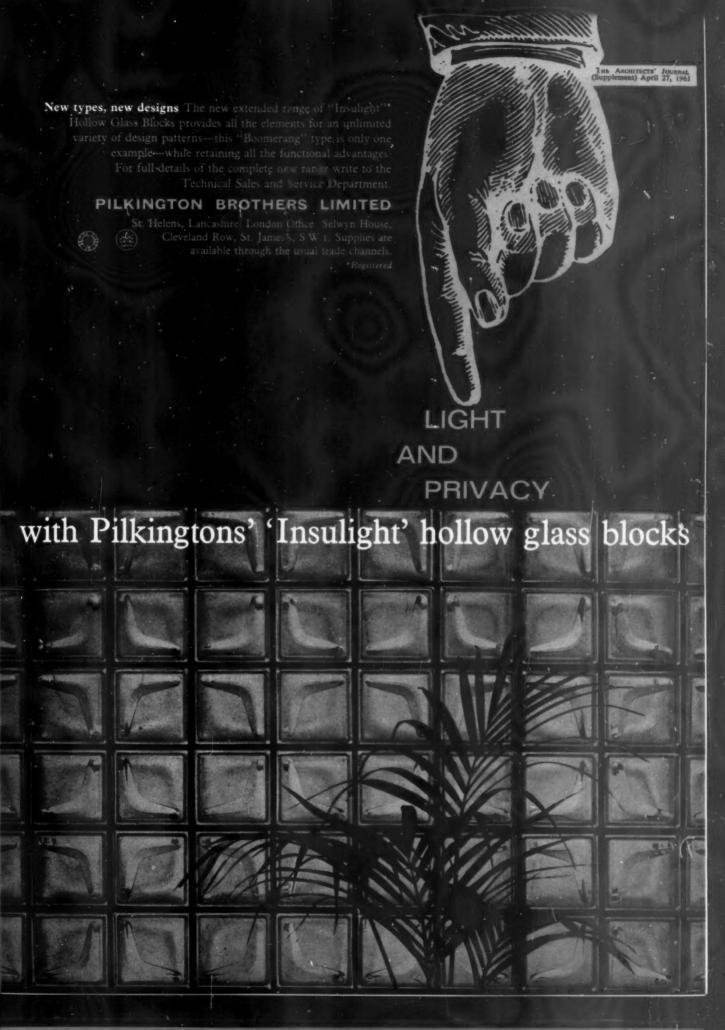
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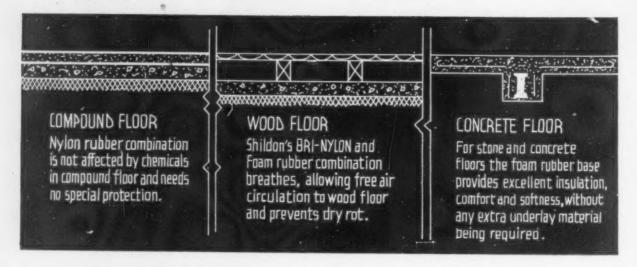


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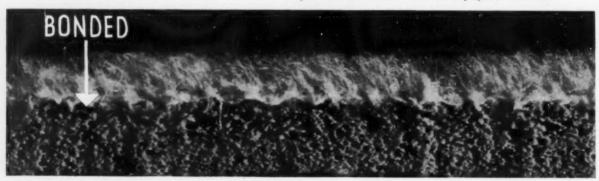




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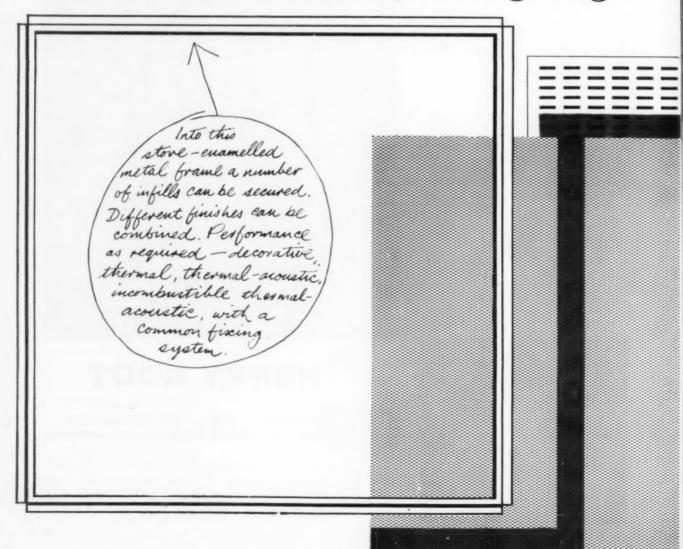
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NEW VERSATILE VERSA-TILE

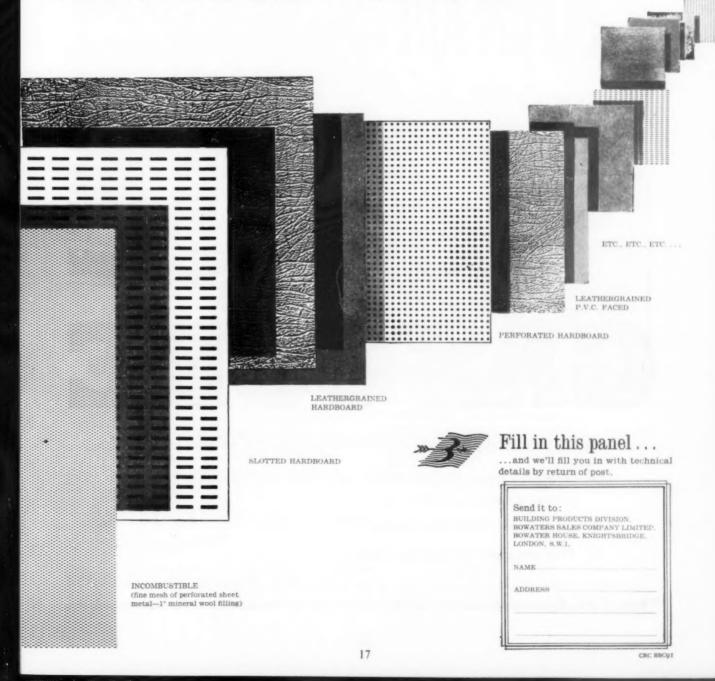
adds to Bowater module ceiling range



New freedom-new scope for design

The introduction of the Versa-Tile gives you the chance of broader, bolder thinking on ceiling design. Performance and finish can be combined and permutated in one ceiling or throughout a building with a common fixing system. A unique detail is the 1 x 1 recessed gap which divides the panels and gives a pleasing definition to the ceiling. Standard sizes 20 x 20 r

and 24" x 24"; other sizes available on application. The Versa-Tile is now added to the established D/C and T/A panels to complete the range of Bowater Module Ceilings. Together they offer a full selection of panels in every price bracket—each one giving high efficiency with low cost in its own class of performance. All these panels can be seen at the Building Products Division Showroom at Bowater House.



CLEAN HEAT

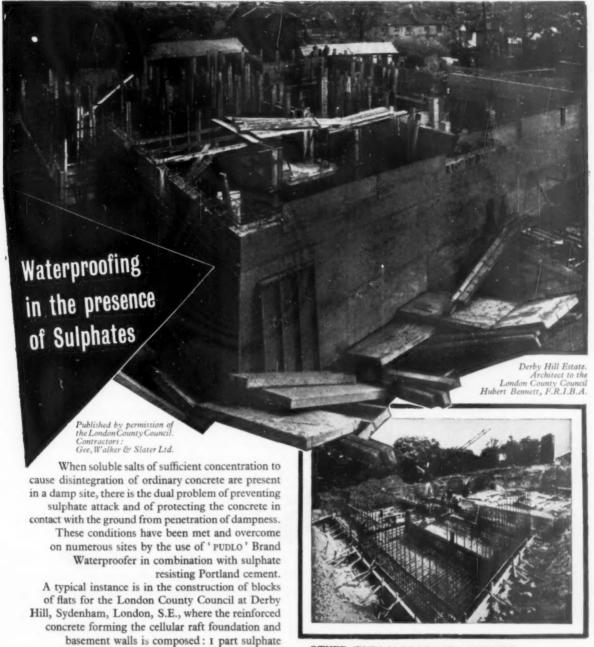
. . with Mr. Comfort's



and his other Solid Smokeless Fuels

- * Specially made for burning in open fires and openable stoves, and in domestic boilers too.
- * Light easier and burn better.
- * The cheapest smokeless fuels.

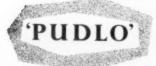
The Gas Council Coke Department, 1, Grosvenor Place, London, S.W.1.



OTHER 'PUDLO' PRODUCTS INCLUDE:

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FROST PROTECTOR/ RAPID HARDENER CEMENT HARDENER/ DUST PROOFER FEUSOL FIRE CEMENT CONCRETE PLASTICISER T



resisting Portland cement, 2 parts coarse washed

Illustrations are of work in progress to 2 blocks.

sand, 4 parts non-porous aggregate 3" down,

with the inclusion of 3 lbs. 'PUDLO' Brand

Waterproofer per 100 lbs. of cement.

CEMENT WATERPROOFING POWDER

The word 'Pudlo' is the registered Trade Brand of Kerner-Greenwood & Co. Ltd., by whom all articles bearing that Brand are manufactured.

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a revolutionary

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Regulator
by HATTERSLEY

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An important feature of the Regulator is its extremely low resistance to flow. It can be used on any part of a domestic heating system and no other type of control valve is necessary. The Regulator is precision engineered with a cast gun metal body. Wheel and Lockshield patterns in Standard and Chromium Plated finish are available with connections for either Iron or Copper Pipes.





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H.10

a code for

The trend in lighting today is towards high illumination. High illumination is an excellent thing in itself, but until now it has inevitably been accompanied by excessive glare with consequent discomfort to the eyes. This discomfort glare, caused not only by the light source itself, but also by the fittings, results in the increased light becoming instead of an aid to efficiency, the very reverse, an actual distraction.

Look at the picture. The office is more than adequately lighted, yet the light fittings themselves are not emitting any appreciable glare. The light source is, in fact, unobtrusive. You have never seen lighting like this before!

This is G.E.C. comfort in lighting—a new technique in which the G.E.C. has gone a long way towards removing discomfort glare by using high illumination in conjunction with low brightness fittings of high luminous output. sometimes called "dark" fittings because by correct design and use of suitable materials, they actually appear to be dark.

A 40-page publication, F4695, tells you all about "Comfort in Lighting". It is free on request.

comfort in

high level illumination without discomfort glare

THE ARCHITECTS' JOURNAL (Supplement) April 27, 1961

comfort...

Only the
Comfort in lighting
range meets all the
recommendations
of the new CODE
issued on April 11th
by the Illuminating
Engineering Society
in every type of
installation.



lighting

9.E.C.

LIGHTING DIVISION

THE GENERAL ELECTRIC CO. LTD..
MAGNET HOUSE, KINGSWAY, LONDON, W.C.2

Plymel

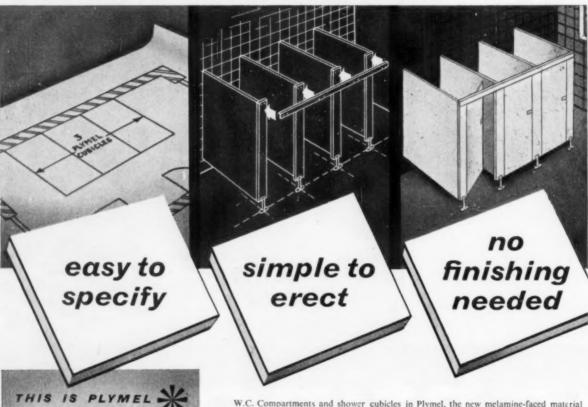
now in a range of colours

UNIT COMPARTMENTS

MELAMINE

MELAMINE

save work at every stage



W.C. Compartments and shower cubicles in Plymel, the new melamine-faced material by Venesta Plywood Limited, are prefabricated in standard units to save hours of your time.

On the drawing board, you simply specify 'Plymel cubicles' and there is no need for further detail. On site, these rigid, lightweight, prefabricated units are easy to handle—they arrive dismantled ready to crect and they need no painting. Once erected, they are resistant to moisture and corrosion—easy to keep clean with the minimum of effort.

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Cubicles, W.C. and Shower Compartments in PLYMEL, write for leaflet (LII)

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T.A. 2402

Please send me 'Z' Purlins catalogue I am also interested in your publication on DIFULITE Cellular Sub-Ceilings.

Have they just been dipped in paint?

Yes, in a way. It's a specially formulated paint and there's a tremendous amount of it in that tank so that we can handle purlins up to 60 ft. in length. These 'Z' type purlins have already been chemically pretreated and are now ready for high temperature stovinga protection process which guarantees that Metsec products are the finest value for money in the world.

METAL SECTIONS



Company Address



CELSIUS [188

celsius See THERMOMETER (person)

celt 1. n., chisel-edged prehistoric tool (imaginary L.)

celt 2. n., (pl.) peoples speaking or having spoken languages akin to that of the Gauls (Bretons, Cornish, Welsh, Irish, Manx, Gaels) (sing.) member of such people.

celtic (adj.; -ically) of the Cc. (Celtic fringe, the Scots, Irish, Welsh and Cornish, in relation to the U.K.) (n.) the Celtic language, celticism, celtomania, celtomaniac, celtophobe, celtophobia, nn. (L. Celta)

cement 1. n., Substance made by calcining lime and clay, applied as paste and hardening into stony consistence, and used as material for floors and walls and tanks or as mortar: TUNNEL C. is particularly strong, rapid hardening, weather resistant c. Best C. see The Tunnel Portland Cement Company Limited, 105 Piccadilly, London W.1. GROsvenor 4100.

cement 2. v.t. Apply c. to, line or cover with c., unite (as) with c. To C. for best results see TUNNEL

cemetery n., Burial ground other than churchyard (Gk. Koimao, put to sleep)

cenobite see COENOBITE

cenotaph (-ahf) n. Sepulchral monument to one whose remains are elsewhere.

censer n. Incense-burning vessel. Cense v.t. adore or perfume with incense (INCENSE 2)

censor 1. n. Ancient-Roman supervisor of census and public morals; modern official examining plays books news correspondence etc.

SUSPENDED CEILINGS

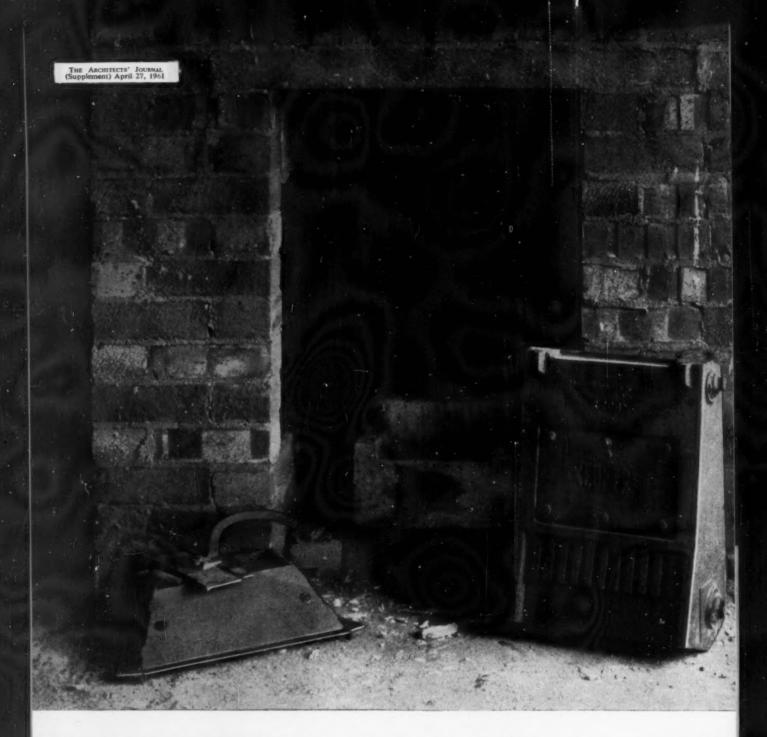


With a gleaming, coloured, wipe-clean surface for a lighter, brighter atmosphere. In 5 B.S.S. Pastel Shades or White.

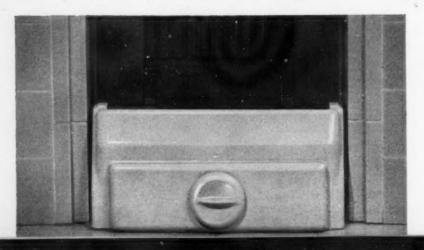
HAVE

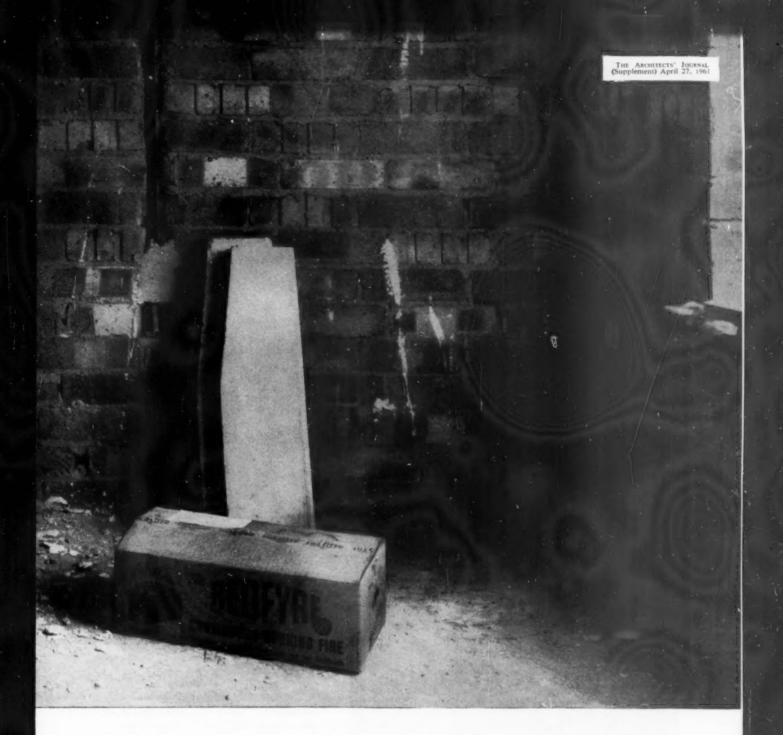
THE BRITISH PLASTER BOARD (MANUFACTURING) LTD FERGUSON HOUSE 15-17 MARYLEBONE ROAD LONDON N.W.1. TELEPHONE HUNTER 4021

PRODUCTS



A Redfyre Bacboiler adds value to every house you build





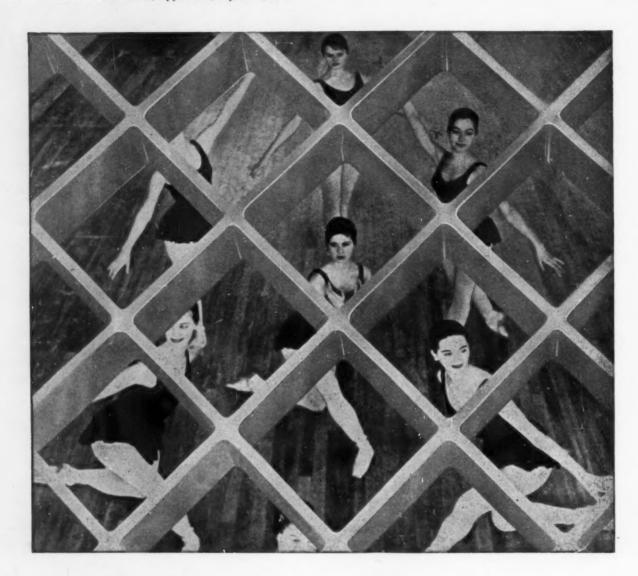
Specify Redfyre, and you specify all the charm and comfort of a beautiful open fire . . . you specify the convenience of cheap hot water for kitchen and bathroom . . . and you specify the extra bonus of partial central heating. Yet for all this, Redfyre is inexpensive and easy to install; running costs are very very reasonable; and maintenance costs virtually non-existent.

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May we send you full details of these fires in our specially-bound Architect's Handbook?

NEWTON CHAMBERS & CO LTD, REDFYRE PRODUCTS, THORNCLIFFE, SHEFFIELD





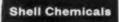
Light fantastic

Light on her feet, light above her head. There was a time when ballet was danced by candlelight – but a long time ago. Long before Shell gave us 'Carinex' light-stabilised polystyrene.

The grille through which you see our ballerinas, is made from 'Carinex'. It is durable, attractive and available in many grades and in all colours.

That's why it is so suitable for lighting fittings.







Ask Shell Chemical Company Limited
Plastics & Rubbers Division, 170 Piccadilly, London, W.1

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THERE'S

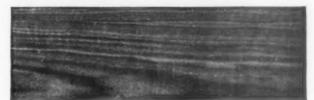
NATURAL

BEAUTY

IN



Tiama



American Black Walnut



Rotary Cut Red Oak

BEAUTY PLANK

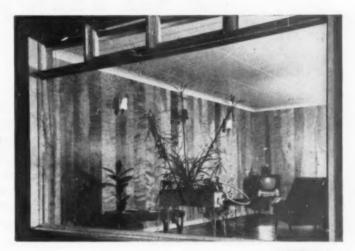
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To Board Room, Showroom, or Exhibition Stand, this prefinished plywood planking adds beauty and distinction. The incorporated tongued and grooved

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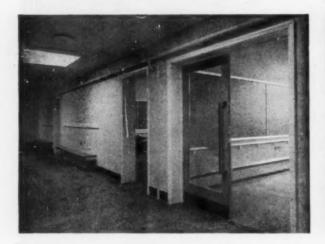


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Grades are available to meet special corrosion problems, to resist chemical attack and to combat mould and other conditions which quickly affect conventional paints. Descriptive booklet, colour cards and full particulars will be sent on request.

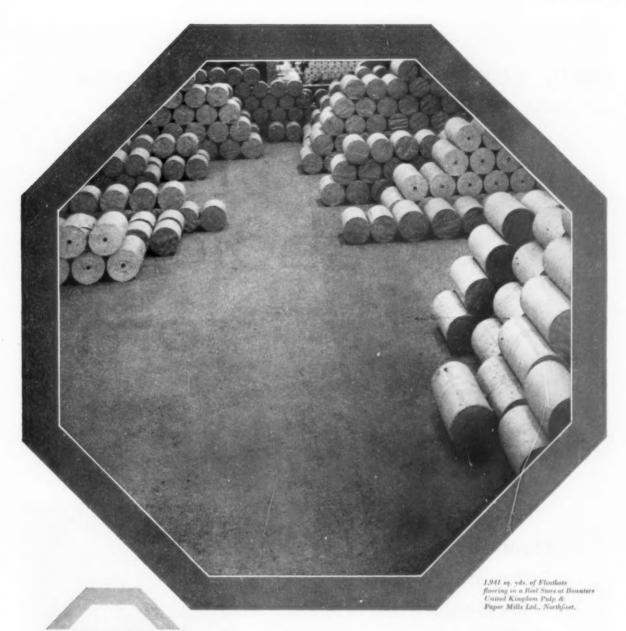
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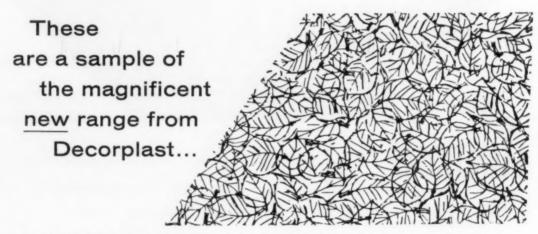
Telephone: Euston 7224

Telegrams: Flintkole, Wesdo, London

Cables: Flintkote, London

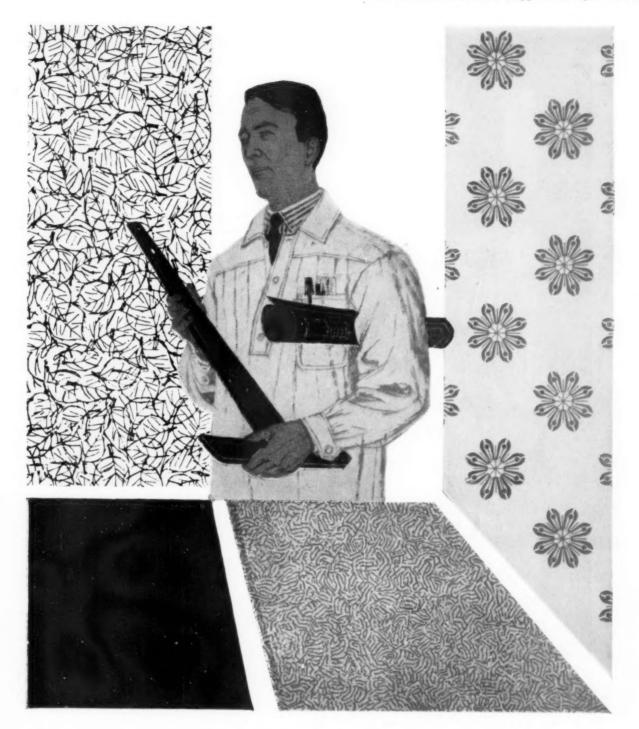
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30 new choices from Decorplast



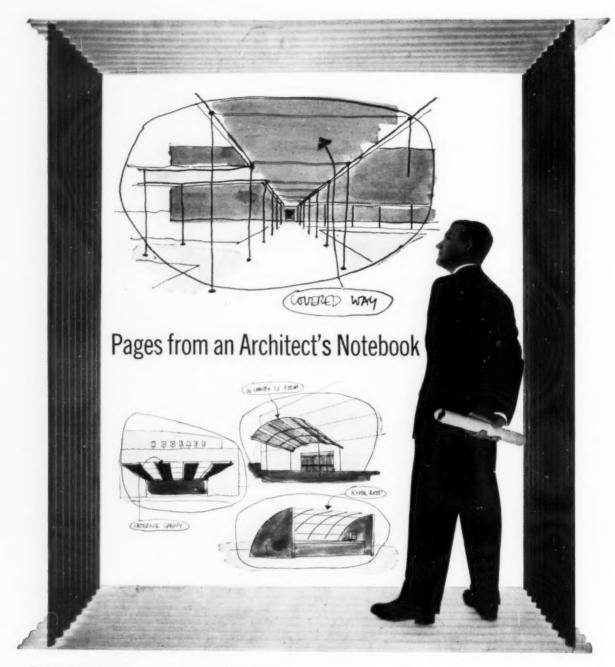
Now Decorplast brings you brand-new designs in a wide choice of colours—plus many other existing patterns. The whole range of tough easy-to-clean Decorplast offers you new scope in colour-planning effects—Subtle, Lively or Bold. Because of these colour advantages, and because every pattern is always available from stock, Decorplast is increasingly preferred. Write to the address opposite for colour chart and list of suppliers.

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A branch of the Clock

revolutionary new method of air conditioning



for 1 room or every room in the building

-at lower cost

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Put one new TEMKON, floor-mounted, room air conditioner, in every room in the building, and the cost will still be 30% to 50 % less than a central station plant. Running costs are lower because each conditioner is used individually as and when required, making the installation wholly flexible.

The appearance of the conditioner is attractive. Their slim-line construction and duo-tone finish ensure that they blend with any office decor - and this unit heats as well.

And it's the World's quietest air conditioner



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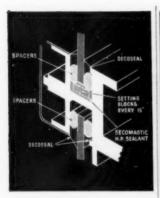
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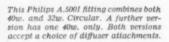
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BRACKNELL, BERKSHIRE. TELEPHONE: BRACKNELL 910. TELEGRAMS: SECOMASTIC BRACKNELL. TELEX: 25420.



Here's the new look in fluorescent lighting

Many manufacturers have selected Philips Circular Fluorescent Lamps for their fittings. Shown at left is a module by Allom Heffer & Co. Ltd., with opal perspex bowl and gilt enrichments. Available in two sizes for 40w. or 32w. Circular.



Efficiency and long life make fluorescent lighting today's first choice. But prestige areas, such as entrances, reception halls and board rooms demand more than the technical advantages provided by conventional straight tubes. They need lighting that is also tasteful and decorative. Philips Circular Fluorescent Lamps make this possible. Circular fittings are not only attractive in themselves—they also permit a degree of layout flexibility—impossible to achieve with ordinary tubes.

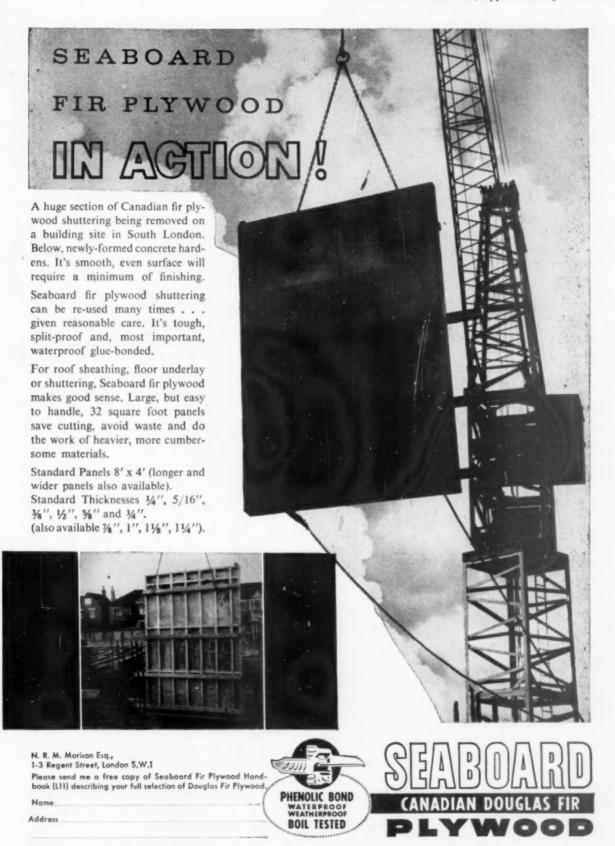
Philips Circular Fluorescent Lamps are made in three sizes: 40w. 16" dia.; 32w. 12" dia.; and 22w. 81" dia., and are available in several colours. Philips Colour 32, with its warm and luxurious colour rendering and special double coating to suppress distortion, is extremely popular. The rapid growth in popularity of circular fluorescent lamps brings you lower List Prices than ever before -27/6 for the 40w.; 25/- for the 32w. and 22w.



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Philips Electrical Limited Lamp & Lighting Group Century House Shaftesbury Avenue London WC2



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What goes on behind the doors at AUSTIN?

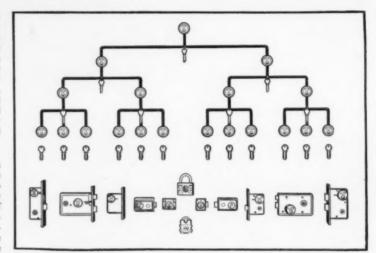


Behind every door in the famous Austin Motor Works at Longbridge, Birmingham, you'll find a safe Yale lock . . . each one part of the comprehensive Yale Master Keyed Suite installed by this organisation. The original suite now totals over 6,500 different locks, consisting of cylinder rim and mortice locks, latches and deadlocks . . . all controlled by one master key! A new suite installed in extensions being built, already numbers 700 locks to which others will be added as required.

Like so many other well-known organisations, Austin chose a Yale Master Keyed Suite for its ability to provide all-round security both internally and externally with the maximum of flexibility and control. There is practically no limit to the number of combinations obtainable, and they can be arranged to cover every need likely to be found in office blocks, factories, schools, hospitals, hotels, flats and public buildings of all types.

MASTER KEYED SUITES

Consist of any required number of different locks, each operated by its own key, but with a master to open all.



GRAND MASTER KEYED SUITES

Different locks divided into Sub-Master Suites. Each Sub-Master key operates all the locks in its suite, but not those in other suites. The Grand Master key will open all – up to 12,000 different locks! Master Keyed Suites can be arranged to include cylinder rim and mortice locks,

latches and deadlocks, padlocks and cabinet locks. All these types can be controlled by the same master key or Grand Master Key.

LITERATURE

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CURTAIN WALL

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Braby Curtain Walling is available to the Architect to suit his specification.

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ARCHITECTURAL DIVISION FREDERICK Braby & CO LTD



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AP 214

service

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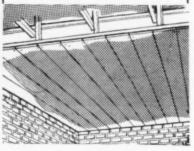
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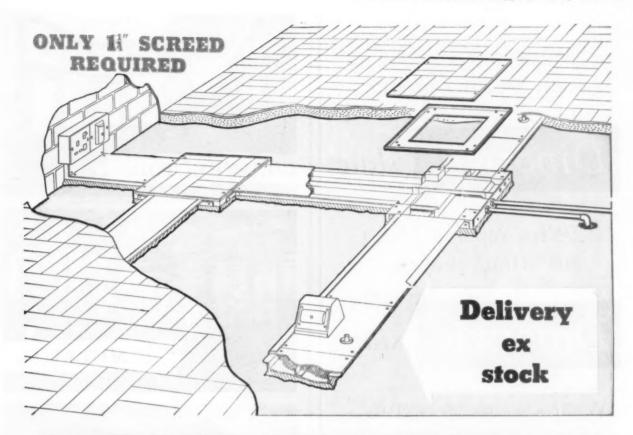


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for telephone and all electrical services

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* Adjustable floor frame to accept final floor finish.

★ All services in one duct. Central division to segregate telephone from electrical services.

* Skirting Terminal Boxes and Universal Pedestal Units for floor connection.

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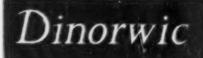


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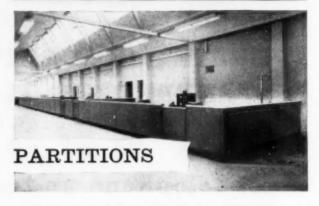
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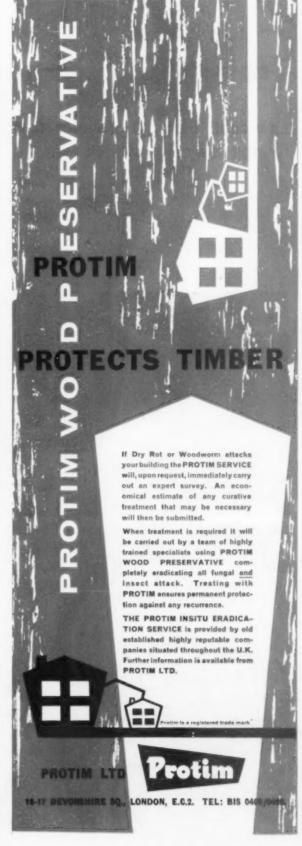
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Crompton Crompack

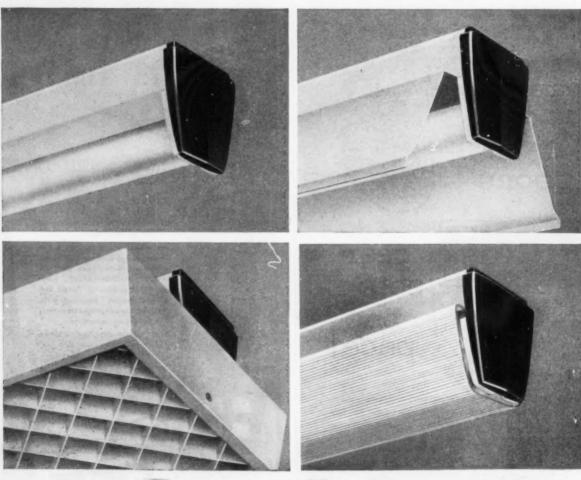
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Specify Hiduminium rainwater goods THE ARCHITECTS' JOURNAL (Supplement) April 27, 1961

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3

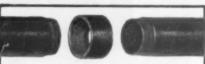
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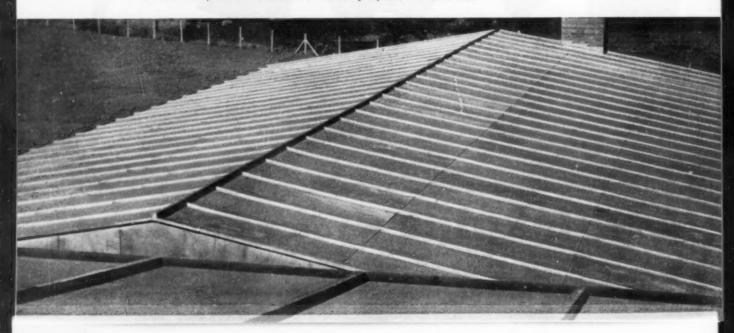
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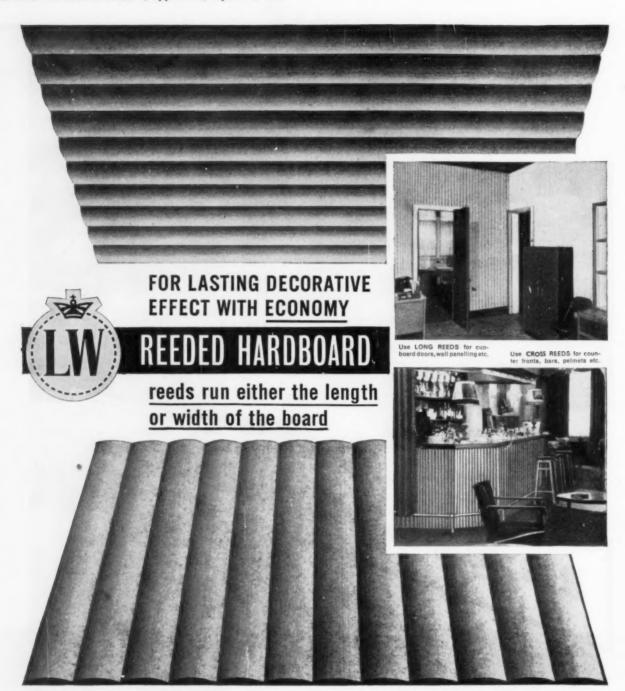


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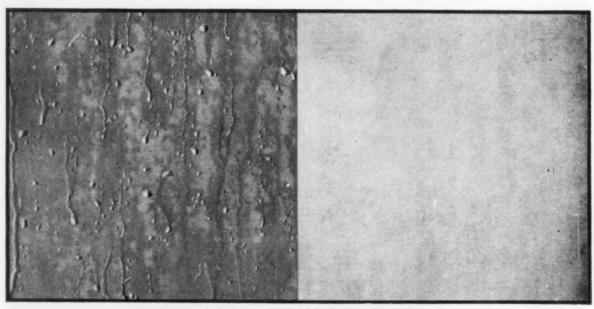
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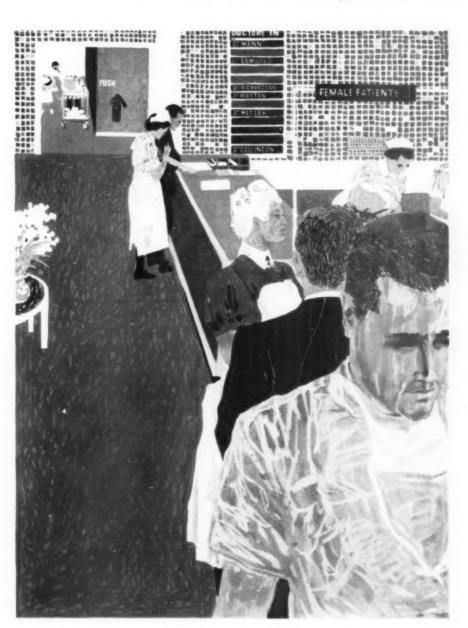
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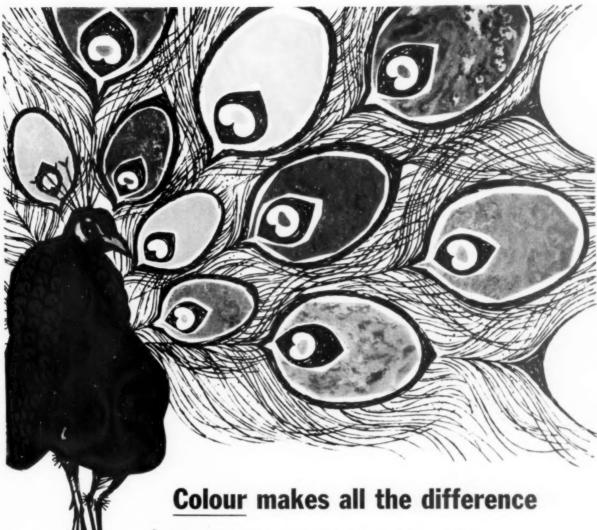
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THE ARCHITECTS' JOURNAL (Supplement) April 27, 1961





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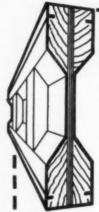
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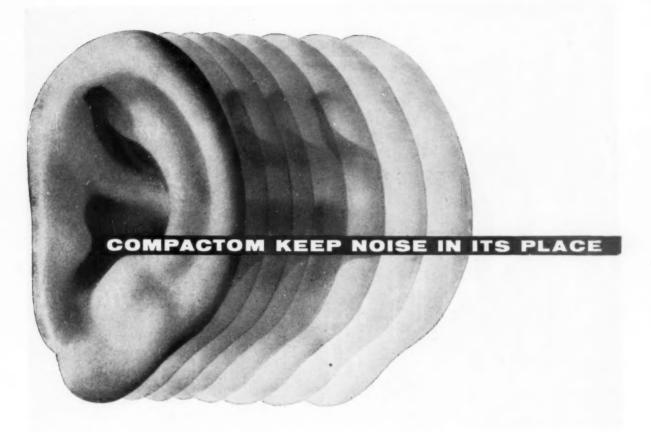
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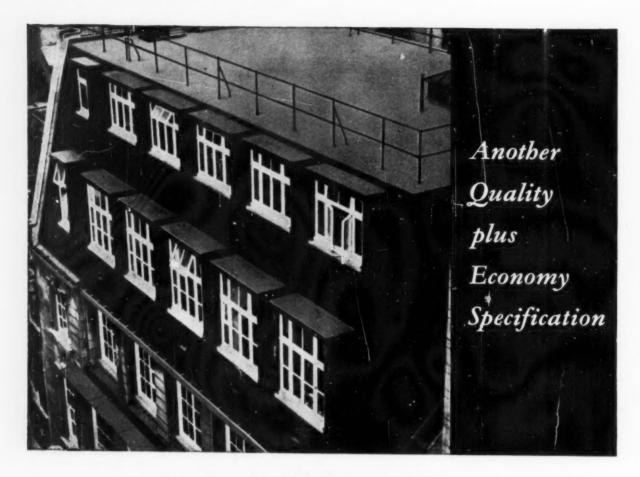
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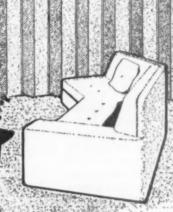
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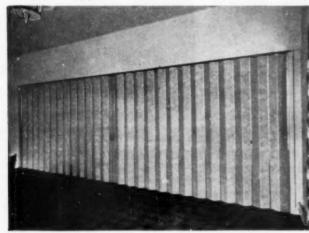




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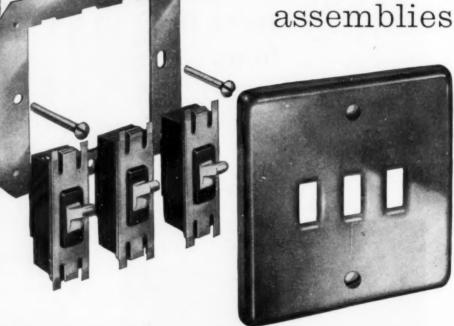
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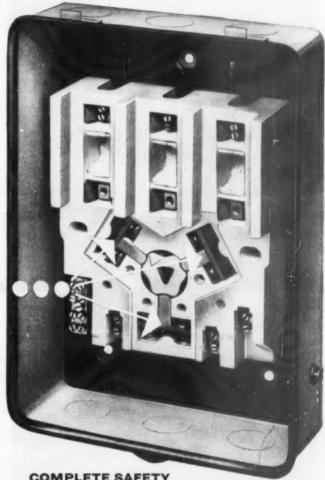
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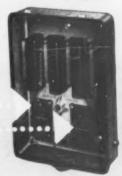
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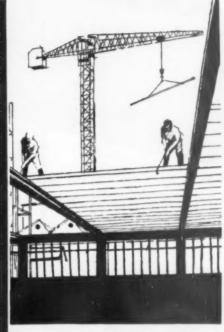
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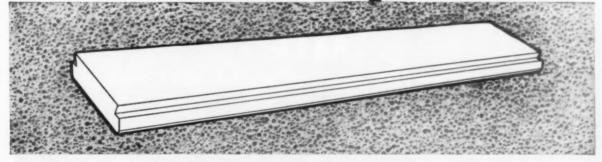
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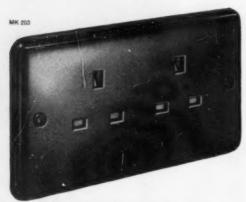


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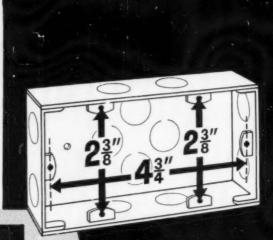


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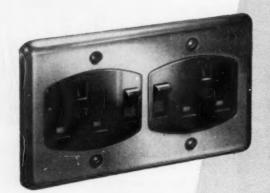
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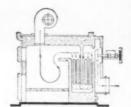
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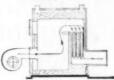
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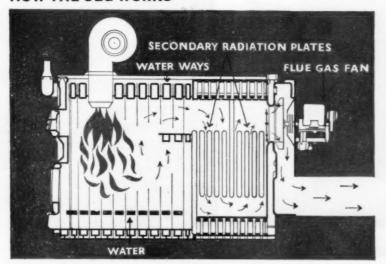


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THE ARCHITECTS' JOURNAL for April 27, 1961



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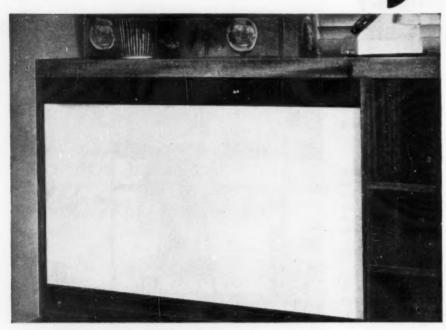


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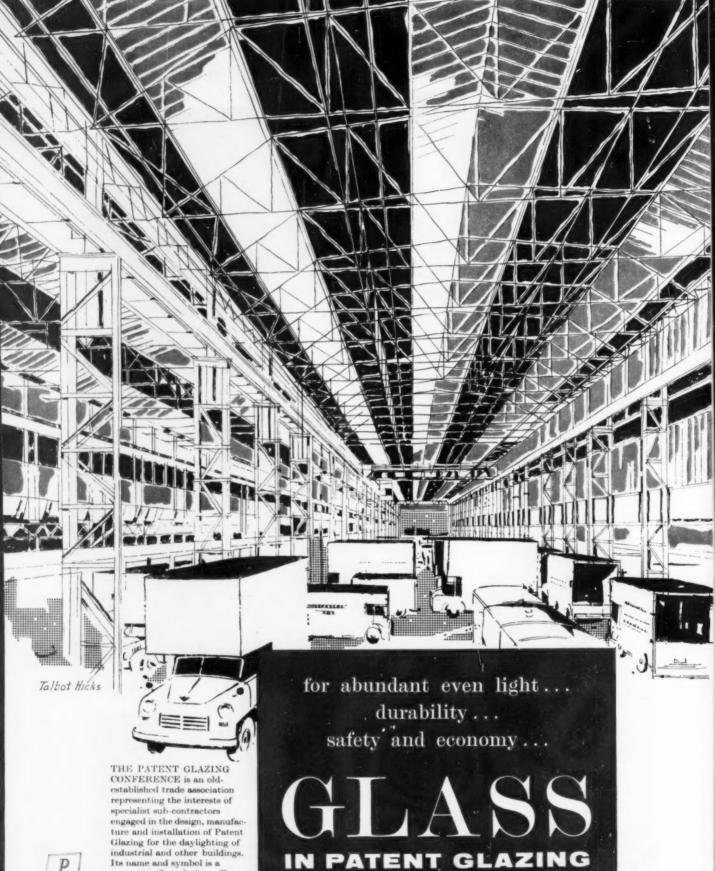


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The Architects' Journal

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NOT QUITE ARCHITECTURE

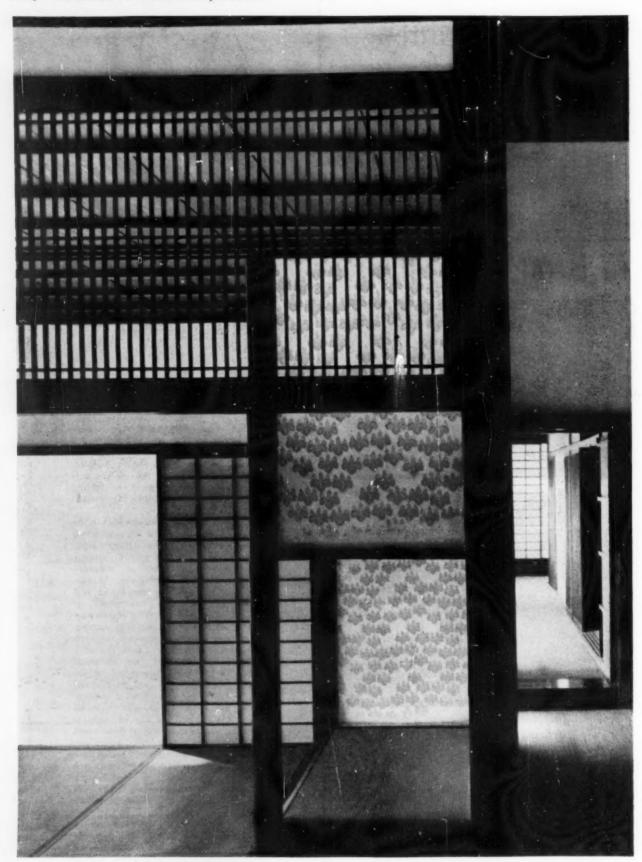
Katsurascapism

Monograph* on the Katsura Villa. Slight and rather egocentric introduction by Gropius and an essay by Kenzo Tange, useful perhaps to Ph.D. candidates or their examiners, but to the ordinary architect academic and irrelevant. For the rest it is illustrations-" a masterpiece of photography" says the blurb, and the blurb is

The Katsura Imperial Villa was built in the lifetime of Inigo Jones and two generations before Strawberry Hill. For architects today it appears to have much greater relevance than either Palladianism or Walpole's literary romanticism. A glance at the plan will reveal its immediate resemblance to a Hertfordshire school; a resemblance reinforced by the post and beam construction framing panels of wall or screen or opening, and by the modular dimensions based on the tatami or 6 ft. by 3 ft. mat. The unity of house and landscape, the determined asymmetry and the "naturalism" of the garden, bridge the gap across the centuries and the world. Yet where modern architecture has barely one generation of revolution behind it, Katsura is the fruit of traditions as ancient and slow-maturing as those which culminated in the Parthenon. Where our materialistic culture directs architecture towards largely practical aims, Katsura was conceived for aesthetic ceremonies like the Tea Ritual and Moon-viewing. Is its relevance to our own problems therefore illusory?

First, we must not be deceived by the apparent simplicity. In a modern economy the cost of obtaining and heaving around

KATSURA: Tradition and Creation in Japanese Architecture by Kenzo Tange (Yale University Press/ London: Oxford University Press, 120s.).



The Japanese Tradition

Linked living spaces of the Katsura Palace: a photograph from KATSURA. (See " Not Quite Architecture.")

the necessary boulders would give any borough treasurer apoplexy. The cultivation of the mosses and their subsequent maintenance would overtax the skill, if not the labour force, of a parks department. More than this, the forms themselveswater, rocks and trees-have deeper meaning than mere plays of contrasting textures, they symbolise the sea and mountains of an archipelago which for the Japanese is a link with his ancestral Eden, but which to the cosmopolitan westerner is largely alien. Failure to comprehend this vital psychological distinction leads to the sort of folly Jacques Tati exposed so unmercifully in Mon Oncle.

Next take the rooms themselves. Their enviable purity of form is achieved in no small measure by furnishings which, because the Japanese sit on the floor, can be kept low enough to remain disciplined by the architectural framework. With our bulky easy chairs, the best we can do is to arrange them like troops in a guard of honour, looking just as self-conscious and twice as ridiculous.

Thirdly-and these are only examples-the austerity of the Japanese 17th century tradition extended to the absence of any but the most rudimentary form of heating, to levels of comfort that would make an English boarding school seem a hedonistic paradise. The complete absence of sound insulation suggests that if the aesthetic interests were pursued in the silence we find necessary for them, household discipline must have been equally severe. The work of modern Japanese architects, closer than others, presumably, to the tradition, demonstrates the difficulties of maintaining it under the pressure of new technological requirements.

Perhaps the most direct gain to be made from a study of this lavish photographic coverage of Katsura is a deeper insight into the asymmetrical layout of garden paths and vistas. Despite the modern movement, all but a few western architects are still bound by the tyranny of axial planning, of parallels and right-angles. Katsura is preeminent in the opposite approach-in the subtle manipulation of changes of direction, in spatial rubato, the change of pace in the length of a path as one reaches a turning, or a flight of steps. The photographs and the accompanying description are comprehensive enough to enable the careful reader almost to reconstruct the garden in his mind and wander through it. seeing the moon's reflections, savouring the peaty scents of leaf and water, listening to footsteps as they move from stone to cobble, crunch on gravel, sink into moss. From time to time English architecture has benefited from a romantic infusion. It is the essence of romantic vision to be remote from practicality; it is also essential that it be received at second-hand so that the imagination may raise it to a perfection unattained by the reality. Where the landscapes of Claude and Poussin worked on the 18thcentury mind, so perhaps this collection of photographs may influence our generation; and even at £6 it can be had for only a fraction of the cost.

GUY ODDIE

The Editors

CHANGING THE FEE SCALE

A RISE in the RIBA scale of fees has been an issue ever since the publication last year of the findings of the Commission which examined the pay of doctors and dentists. Superficially at least, it is one of the quickest and easiest ways by which the architect's position can be improved from the bottom of that famous table in the report, which gave the comparative earnings of various professions. The RIBA have yet to make any pronouncements about such a change, and in the meantime have dealt separately with the very parsimonious special scale for state-aided housing, as we announced last week.

A general rise in fees is tempting, particularly at this moment when the building industry is stretched to full capacity. Indeed, the climate for an increase is better now than it has ever been since the war. There are, however, two points which should be examined before taking such a step. First, we can expect the RIBA office survey team to gain a fairly clear picture of the general standard of efficiency in architects' offices throughout the country. At the same time they may quite well uncover various methods which, if generally adopted, could make a considerable difference to the profession's potential earnings. In other words, a rise in fees must be made only on the basis of a profession providing the public with a service which is not only of high quality but high efficiency. Second, the RIBA should consider how best it can tackle the question of cut fees, a practice which still apparently continues despite the building boom. Although it is obviously very difficult for the Institute to gain any factual information whatever about how widespread such commissions are, there would seem to be little purpose in changing the fee scale unless it is absolute and binding on all members.

THINK BIG-AND SHOUT LOUD!

The Royal Fine Art Commission, whose annual report we summarise this week, has unerringly pointed out the missing link in our planning procedure, when demonstrating (with the example of the mess of unrelated buildings now going up near Victoria Station) that planning cannot be adequately done with a town map showing zoning and traffic circulation, but requires the preparation of a three-dimensional model in sufficient detail over a sufficiently wide area, to which the planning authority can relate projects submitted for approval. "Unless this is done," the RFAC points out, "the development which is taking place today will be a patchwork and the total result will often be worse than what is being replaced." Worse, because larger, higher, visible from farther off, and more oppressive from close to.

The answer of the LCC, when pressed to provide such a threedimensional scheme for Victoria Street, was that as they were not in a position to redevelop the area themselves, little would be gained by preparing such a model. This is simply to lie down and accept a gap in our planning defences which will lose the battle of urban redevelopment.

It is for local authorities who are serious about the need to plan urban renewal—and none is more serious than the LCC—to think big about the areas of redevelopment, whether or not the development is done by the authority itself, and to insist on the preparation of three-dimensional area plans to which developers must conform.

If they have not the staff to do this work, and if Ministers do not back them up, and enable them to recruit the necessary staff, let them shout for help to the public, who are becoming increasingly conscious of how much good town planning can affect our lives. It was a very loud shout, remember, that saved Piccadilly Circus.



ARCHI-OLOGY

Had it ever occurred to you that the archeologist of the Post-Atom Age will look upon the designers and architects of today as a tiny intrusive band of underpaid and underhonoured aliens? That is how Miss Jacquetta Hawkes thinks we shall appear to future historians. In making this prediction in the annual design oration to the Society of Industrial Artists she suggested three ways in which we might do a better job: (1) by enriching our architecture with the help of "men and women engaged in abstract art on easels"; (2) by stopping the mad pursuit of origin-

ality and settling down to "a stylistic repertory" and (3) by being "strongly represented on all local authorities, on boards of directors and so forth."

If I follow Miss Hawkes's argument properly, this last method is one she has no faith in because it could happen only "if Britain would cease to ruin herself by straining to be a great power, and instead become a country of modest power abroad and great achievement at home." And surely the pursuit of originality needn't be a bad thing in architecture (goodness knows, there's little enough of it), though in industrial design the pursuit is often made by greedy manufacturers in search of salesgimmicks rather than by good designers. There really isn't much wrong with originality if it is pursued by creative brains capable of really original thought.

What about Miss Hawkes's other suggestion—the need for artists to enrich architecture? The moment she said this I guessed she had in mind Victor Pasmore's contribution to the face-lifting of Peterlee New Town. With her next breath she did, in fact, say he was " perhaps one of the few leading the way to this new allegiance." Perhaps. Or then again, perhaps not. The Peterlee-Pasmore episode was a story of a happy fluke—the story of an artist so well-respected locally that he was able to push his ideas, and more particularly those of two bright young architects, past committees which might have been difficult. Artists with similar power, please copy. Otherwise, for heavens sake keep your distance and do your architectural enrichment more conventionally—with murals, sculpture and such.

MOSAIC WHILE YOU PLAY

Incidentally, this form of enrichment seems to be coming along nicely nowadays—as I was reminded by seeing that the scaffolding has now been removed from Thorn House, in St. Martin's Lane, revealing the clinging wall sculpture looking rather like a brutal musical instrument (a Barbarous Hepsichord, as one wag said). And public buildings in new towns and elsewhere are positively groaning with adornment nowadays—particularly in the LCC area where the policy of spending £20,000 a year on art is at last becoming apparent.

Most of the LCC's art work embellishes new buildings, but I'm glad they have decided to have a go at older buildings too. If you are ever passing the 19th-century Holman Hunt primary school in New Kings Road, try to see Francis Carr's mosaic in vigorously active use. He has thrown into it everything but the kitchen stoveand its superb mixtures of texture and colour dominates a drab hall and gives its infant occupants a reason for going willingly to school. It is exciting to watch their art appreciation sessions, as they finger the projecting ingredients -coloured glass, pebbles, marbles, mirrors, shells, etc., and search among them for coins or stamps.

Mr. Carr, who believes that an artist should get accustomed to handling as many materials as possible—though not all at once as in this extravagant fantasy-hopes to do a number of works using, in turn, many of the materials incorporated in his mosaic. He is particularly interested in silkscreen printed tiles-used here for pictures and letters of the alphabet. Among his future plans are "the development of polychrome sculpture. the introduction of sculpture where the base is part of the whole thing and sculptural forms with backgrounds that are related to them in colour." That sounds almost rich enough for Miss Hawkes.

PROFESSOR EXPANDS TO KILL THE TIME

"It is impossible to stray from the path where there is no path." This epigram comes from Professor C. Northcote Parkinson, the author of Parkinson's Law-that splendid attack on red tape establishments where work expands to fill the time available for it. The professor explains that the path of orthodoxy no longer exists for the architect or painter and cannot, therefore be strayed from by a rebel. Elsewhere in his diatribe against the creative mind (in the March issue of Architectural Forum) the professor shows that although he favours individuality he also wants to suppress it. "The ordinary designer and architect," he says, "are far happier when working within the framework of an accepted style. An architect has enough to do in applying a general tradition to a particular problem; we cannot expect him to evolve a different idiom for every structure he attempts to plan. . . . When all houses were Georgian . . . there was no lack of distinction in the work produced."

This—together with the professor's plea for "an agreement on broad principles"—suggests that he wants some sort of standardisation of building. But he can't have it both ways: he asks for individuality in one paragraph and deplores it in another. I don't suppose the professor will do much harm to the readers of Architectural Forum. I only mention his views here as an awful re-warning that the doctrine of the philistines turns up in the most unlikely places.

GRANTLESS GRADUATES

One day last week the "Bride of Denmark"—the private pub of the Architect Press—was choc-a-bloc with serious young architects from Canada, Malta, Hongkong, Belfast, the LCC and elsewhere. They were members of Percy Johnson-Marshall's post-graduate planning course at Edinburgh University, and he had brought them south to see the work of the LCC and Coventry's architects department. Astonishingly enough this post-graduate course—well booked up for next year already—is the

only one of its kind in Britain, and it exists without grants or any official encouragement other than that of the Edinburgh University school of architecture.

Some of the students from abroad, like Joseph Borg-Grech from Malta's school planning department, are common wealth scholars who have opted to take this town planning course; others have either given up jobs to attend or persuaded far-sighted local authorities to send them along and support them while they are over here. All these students said they knew other young architects who would attend such a course if grants were available. But so far all trusts and government and local authorities approached for help have refused to acknowledge its importance. How far would medicine have got, one wonders, if post-graduate education had been similarly treated?

I was interested to hear that the students believe they gain a lot from being brought together in a town like Edinburgh-not simply because it is a majestic city, but because it is small enough for the class to have exceptional opportunities for close contact with various Ministries-contact that no Whitehall Ministry would dream of providing. Consequently the Johnson-Marshall planners have been able to undertake all sorts of planning exercises in close touch with real situations and problems, such as the redevelopment of Dunbar as well as communications in Edinburgh itself. They all claimed to be enjoying the work too much to bother about holidays. And that, it seems, goes for Percy Johnson-Marshall as well.

THANKING HUW

I was glad to see BBC's Monitor tackling architecture again on Sunday (only the second or third time in the history of the programme). And I was glad they made a good job of it by talking to Denys Lasdun about his work. He discussed three things principally: designing a building "to function and to respond to its neighbourhood"; the worthwhile qualities in modern architecture, and the need

for today's architect to work with committees.

On the first point Mr. Lasdun talked about his flats overlooking Green Park (" matching does not mean copying; it means giving the same quality, handling the details with the same love and cares as the older adjoining ones had") and his cluster block in Bethnal Green ("the backyards have been transferred to the top floor; the building mothers and encloses you"). On the second point-worthwhile qualities in building-he parried Huw Wheldon's suggestion that building should be "thrilling" ("it suggests false appeal that might be over in five years") or have "splendour" ("society cannot afford the grandiose schemesplendour is there but does not assert itself-one can draw inspiration from buildings that grow slowly"). And on committees he quoted Paul Klee-"the first source of power in any artist is given by society." Although Frank Lloyd Wright had said good architecture never came out of a committee. this was because he was ahead of his time, said Mr. Lasdun. "Today people on committees accept modern work (lucky, lucky Lasdun!) and contribute to it." Thank you, Mr. Lasdun: and don't forget that the next Monitor is on Sunday week and the next architectural item is-well,

Congratulations to producer Nancy Thomas and to Huw Wheldon for being brave enough to do what was rather an esoteric piece. Could we have something a little more basic next time, with some good illustrations especially taken for the programme? (All right, I know there was some good film material in this, but I'm sure stills of architecture are more effective on the small screen.) Some very exciting things are happening nowadays that are worth putting over in a programme of this kind. Or is Monitor too far removed from really down-toearth aspects of architecture, like pedestrian-precinct housing (Basildon is a gift for the camera), university development and the decorative treatments I-mentioned earlier?

LETTERS

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and G. H. Lawrence, T.D., A.R.I.B.A., A.M.T.P.I. President, Edinburgh Architectural Association

Stevenage Architects

SIR: I am surprised to find that Astragal, in your issue of March 30, finds it necessary to praise the present chief architect at Stevenage by vilifying his predecessors. The "never mind who" so scathingly referred to is, of course, Donald Reay, whose ability as a designer has been recognised in America, and who was wholeheartedly in favour of a pedestrian shopping centre for Stevenage-a conception which was realised, incidentally, by popular demand forcing itself to be recognised by the Corporation. I am also surprised to find that the chief architect publicly derogates fellow members of his profession, by talking to journalists about the control of bad architects. This, not unnaturally, gives rise to speculation by interested parties. His staff wonder whether this is the reward of the anonymous hard work put in by them on the designs, working drawings and site supervision, which have made the New Town possible: or can it be that he disapproves of the Corporation's choice of consultants, or of the architects chosen by those who prefer not to avail themselves of the Corporation's architectural services.

CYNTHIA WOOD

Stevenage

Architecture on TV

SIR: Paul Ritter (ARCHITECTS' JOURNAL, April 6, 1961) implies that the RIBA ditched a possible TV programme by refusing to provide some photographs and plans of "the highest quality," when Associated Rediffusion was interested in his exhibition on traffic segregation. This really is a travesty of the facts.

The Public Relations Committee was asked by Mr. Ritter to exhibit a large and very rough collection of drawings and photographs on this subject at the RIBA. The Committee, having seen a sample of the exhibition, decided that although it contained some very valuable material, it was not good enough as an exhibition to be shown at the RIBA. Nor did the Committee think that its defects could be removed merely by better presentation. It is hopeful, however, that it will be possible to use some

of this material if an exhibition on "Building and Planning in the Motor Age" is arranged at the 1962 Architects' Conference in Coventry.

Mr. Ritter did say that Associated Rediffusion's "This Week" were interested in the idea of doing a programme if the exhibition were shown at the RIBA, but enquiries showed that the degree of the interest seemed to have been exaggerated considerably. It is certainly not true to imply that the programme fell through because the RIBA failed to provide any photographs or plans. If this is all that is standing in the way of such a programme the RIBA would, I am sure, be willing to help.

MALCOLM MACEWEN
66, Portland Place, London, W.1

Science and Dr. Banham

SIR: John Madge sees a muddle where others see clarity because he is obviously not familiar with my basic contentions. Of course I am not attacking the human sciences in general but the academic kind which reigns in a sterile and sophisticated fashion. After all I give examples of the alternative approach and say clearly "without the functional approach . . . the problem is intractable for the human sciences." We must have the right kind of science, I insist.

I know full well that scientists ought to have a creative imagination but I demonstrate the lack of it due to their approach and methods: I eagerly await John Madge's evidence to show the opposite: how the human sciences have given creative insights to, for example, city architects and planners. I think they mainly failed to do so. I flatly deny the wrongness of two of my seven examples which Mr. Madge asserts without evidence.

Perhaps I can make my attitude clear to Mr. Madge and others, seemingly unaware of the architect's long-standing search for a science worth having, if I quote from Plan 1949 (No. 6), written by a number of now famous architects.

"Biology, sociology, town-planning, industrial design, and civil engineering, are but a few of the disciplines which must be freed from the strait-jackets of professionalism and specialisation. When this is done people will be concerned with living in an ever-increasing fullness, and the manifold disciplines of work will enrich and develop the life of everyone. The first step in this direction is to relate all the isolated products of man's mind to his way of living. In November 1948, the magazine Forum produced an issue called 'Measure,' in which an attempt was made to relate isolated factors of environment to the human body: heating, lighting, sound, space, proportion-all the isolated factors which the architect vainly attempts to assimilate in their isolation. When the study of such factors is concerned not merely with the measurable quantities in the physical situation but also with their effects on human behaviour, the research immediately becomes more than a mere study of an isolated aspect of physical environment. It becomes a study of the relationship between man and environment—a study of a living process rather than a static form. Consideration of quality is, therefore, the consideration of relationships—the study of man."

Those who pointed to the relationship between science and architecture, specifying what sort of science beyond the vague and fashionable term "human sciences" or "new biology," was required were far more informative than Dr. Banham's rodomontade, of shallow generalities simulating abstruseness.

PAUL RITTER

Nottingham

Last Shot

SIR: Is it too late to intercede for the Shot Tower? When the South Bank development is completed, it will have gone.

But the more one sees it against the shape of the Royal Festival Hall, the new offices and the nearby bridges, the more valuable a foil it is—from within the area, from the opposite Embankment or when crossing the bridges themselves.

In the important new assets which London is to gain on the site (AJ. March 30, 1961) it would still seem possible, from study of the plans, to allow the new terraces to be pierced by the old Shot Tower. And the proposed elevations, an uncompromising grouping of windowless horizontal elements, would even more be emphasised.

I fear that we shall be told that its condition . . . the foundations . . . much thought . . . this late stage. . . . All the same, I and many others will be sorry if it goes. It looks taller than any tall building we are likely to see in London, and beyond its visual merits provides just that historical continuity amid new and unaccustomed buildings which makes living in a city, or visiting a foreign city, exciting and worthwhile.

London, N.6

C.R. WHITTAKER

Messing About

SIR: Ratty, Mr. Toad and Otter, that watery triumvirate of "The Wind in the Willows," were not alone in understanding the beguiling pleasures of "messing about in boats." Mole, too, their land-lubber, earthbound, friend, shared their joys and tribulations.

So also are land architects, equally with their naval counterparts, boat-owners, boatcharterers and boat-borrowers—in short, sailing enthusiasts.

Has not the moment arrived when members of the RIBA should give expression to this enthusiasm and form their own sailing club—with or without their own boats; ranging from Ocean Racer to Cadet and Motor Cruiser to outboard propelled dinghy—Mariners all!

Already many members who have been personally approached have welcomed this idea and we suggest that all those who are interested should write to: "Sailing," c/o RIBA, 66, Portland Place, London, W.1.

E. F. TEW G. H. LAWRENCE

66. Portland Place, W.1

NEWS

AT THE ZOO

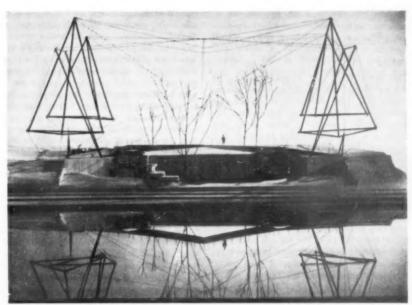
New Aviary is a Steel Cat's Cradle

Two double tetrahedrons of tubular steel. holding a cat's cradle of tension cables. form the basic structure of the Zoo's new aviary, to be sited to the west of Sir Hugh Casson's new bridge, now under construction-on the north bank of the Regent's Canal. The cables will support a 11-in. mesh covering. The design, the first of its kind in this country, is the work of Antony Armstrong-Jones, Cedric Price and Frank Newby, senior partner of Felix J. Samuely & Partners, who say that it provided the best answer to the Zoo's brief, which asked for a maximum volume of enclosed space on the available site, providing for the needs of a specified range of species, including waterfowl, and allowing visitors a good view from both outside and in, requiring minimum maintenance once erected, and combining a clear view of the birds from near at hand with a form of building " which would be forceful and of interest from a distance.

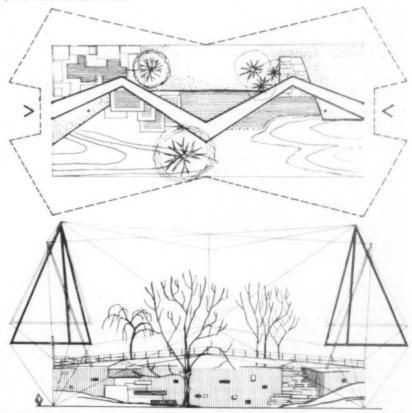
The aviary, which will measure 150 ft. by 63 ft., with a maximum height of 80 ft., takes advantage of the steep slope of the site down to the canal to provide the birds with an artificial cliff-concrete with nesting holes provided-and two waterfalls, one slow and shallow, one faster falling. The public will use an upper and lower walk round the cage, and will be able to walk right through on a prestressed concrete bridge which follows the "clifftop." This walk will be enclosed at each end only by a bead curtain-the bird experts are seemingly quite confident that no bird will try to get out through this-which will be battened down at closing time.

The main structure will be of 9-in. to 12-in. diameter steel tubes, sandblasted and hot zinc sprayed to minimise maintenance, and. as the top photograph shows, will touch the ground at only two points. Between these will be stretched 1-in. high-tensile steel wires. It has not yet been decided what the mesh covering over this structure will be made of, as the comparative cost (including maintenance) of various materials, from stainless steel to nylon, is still being estimated.

The building—a pleasant change from the hen-run type of bird house—will form part of the new extension to the Zoo (published in the AJ of March 19, 1959, and October 20, 1960), planned by Sir Hugh Casson and Peter Shepheard in association with the Zoological Society's architect, F. A. Stengelhofen, which looks like becoming the most exciting part of the London Zoo.



Above, the model of the Zoo's projected aviary of steel cables held in tension by four tubular steel tetrahedrons, photographed on a mirror by Antony Armstrong-Jones to show it reflected in the Regent's Canal. Centre, in plan, the extent of the cage marked with a broken line, showing zigzag walk-through for the public above the two waterfalls. Below, sketch elevation from the south, showing waterfalls and "cliff" with nesting holes. Only front wires are shown here.



NFBTE

Attack on Trade Union "Guide to Incentives"

A booklet called "Guide to Incentives," published by the Amalgamated Union of Building Trade Workers, has provoked the National Federation of Building Trades Employers to repudiate any attempt to establish a national schedule of bonus targets for certain kinds of building work. The NFBTE wants targets "fixed beforehand on each site, job, shop or factory, by

the employer or his agent, and then agreed

with the employees concerned."

RFAC

Problems of Urban Development

The Royal Fine Art Commission, in its Annual Report published last week, recommends that local authorities should be empowered to prepare three dimensional redevelopment schemes in some detail and covering a wide enough area to ensure that when rebuilding takes place it is in accordance with an acceptable plan.

To show the need for this, it quotes the lamentable example of the south-west end of Victoria Street, between Westminster Cathedral and Buckingham Palace, where three large-scale redevelopment schemes on adjoining sites have received planning approval from the LCC, but the end result will be the development of the area at excessively high density, with a number of high buildings interfering with the view of the Cathedral from St. James's Park.

" Although some improvements were made with the help of the Ministries of Housing and Local Government and of Works, we recommended that these schemes . . . should not proceed without the preparation of a three-dimensional model of the whole area. showing the general lines of future development. It was explained to us by the LCC that they could not do this. They were not in a position to initiate the three-dimensional planning of the area as a whole and little would be gained by preparing such a model." A town map, providing for zoning and traffic circulation, says the Report is really inadequate "to ensure that the three-dimensional effect of the development project will fit satisfactorily with what will happen on adjoining sites. It seems to us that an essential stage or link in the procedure is missing. "It may be that given their present resources there is nothing to be gained by suggesting that models should be prepared by Planning Authorities for the whole of their central urban areas. But unless this is done, the development which is taking place today will be a patchwork and the total result will often be worse than what is being replaced. This failure to plan in three dimensions and in sufficient detail over sufficiently wide areas seems to us to be one of the chief defects of our present planning arrangements."

This major problem, "the common ground between planning and architecture," overshadows all the smaller questions of the improvement of individual designs and the preservation of individual fine buildings which the RFAC has tackled in the past year.

The Report notes with satisfaction, however, successful instances of comprehensive planning at Tower Hill, at Piccadilly Circus and in the West Street area of Brighton, and goes on to try to formulate a policy to govern the placing of very high buildings in London.

While accepting the general rules which the LCC applies when considering each proposed high building "on its merits," the RFAC urges that there are certain areas where no very high building should be allowed, such as to the south of St. Paul's,

near Buckingham Palace or "in the middle of the areas occupied by the more important Georgian squares."

"On the other hand there are certain areas which are prima facie very suitable for high buildings . . . on the banks of the Thames and in some older suburban centres where high buildings can add to the general architectural effect and quality." The Commission would also like a policy of grouping high buildings in suitable places instead of their being dotted about all over London, as is the tendency at present.

TCPA

A Policy for South-East England

The first of the Town and Country Planning Association's policy statements on regional planning, devoted to the problems of the London Region and their probable influence on the whole of south-east England, has now been presented to the Ministry of Housing and Local Government for consideration, and it is a telling document, clearly written and loaded with facts which call for action by the Government.

The document—which is based on the TCPA Conference last month, reported in the AJ of March 30—starts from the fact that the increasing growth and dominance of the London Region is now the most urgent planning challenge to the country. Unless this challenge is accepted we are faced with the probability that in 20 years' time 27 per cent of the country's population and 45 per cent of new industry will be contained in this corner of the island.

"It should be an urgent objective of Government policy to bring about a better balance between the main regions," says the statement, and goes on to make the following proposals for doing so:—

1. Government and private employers must become less London-minded, and the development of communications—roads, airports and railways—should be planned deliberately to improve the power to compete of other major regions.

2. "Parliament, ministers and public corporations have not yet appreciated sufficiently the folly of adding to congestion in central London." The TCPA deplores the private office blocks going up—and also the decision to keep Covent Garden where it is instead of decentralising the market. It suggests some form of anti-congestion tax on those users which add to the congestion.

3. In the next 20 years another million people will need homes within 40 miles of central London: this should be concentrated round existing towns, where county councils should be encouraged to buy the land and lease it to developers.

In addition the TCPA suggests a number of possible New Towns, under the New Towns Act. as far afield as Bicester, Sudbury, Wellingborough and King's Lynn, all over 55 miles from London.

In East Anglia, the least populated part of south-east England, it is suggested that a Regional Development Corporation be set up to assist the local authorities in carrying out a large number of expansion schemes.

4. Communications must encourage this trend: the document insists that the projected Norwich Radial route from London docks must be built before 1970 and related to new and expanding towns in East Anglia and Essex, and also the South Wales motorway and the first 50-mile stretch of the London-Exeter motorway.

 Government machinery needs considerable adjustments to these needs, and the TCPA has already submitted a number of improvements that could be made in the Town Development Act's terms and administration.

The New Towns Act must be used to the full as the best instrument for larger expansions.

Because the siting of industry is vital to the whole plan, the Board of Trade must coordinate policy on industrial location with the Ministry of Transport and the MOHLG's broad planning objectives.

And the MOHLG should get the whole thing moving by calling for a new series of advisory plans for the principal urban regions of the country.

BOSTON HOSPITAL COMPETITION

Assessor's Report

The report by the assessor, S. E. T. Cusdin, O.B.E., F.R.I.B.A., A.A.Dip., of the competition for a New General Hospital at Boston, Lincs., which we published fully last week has now been issued. It is set out at considerable length and discusses each of the six schemes which reached the second stage, and in many ways is a model of what an assessor's report should be. Mr. Cusdin is obviously disappointed by the general standard, but believes that the winning scheme is capable of being developed to reach a satisfactory standard. His general comments are as follows:—

"It was my duty to make an award and this I have done. This report gives me the opportunity to express my regret that the results of this competition are disappointing. I understood that the Board's intention in promoting this competition was to widen the field of participation, especially among younger architects in planning hospitals and to stimulate new ideas and forms in the planning of a New General Hospital.

"I do not believe that even the winning design will commend itself to your Board as being pre-eminently suitable or acceptable in its present form. The others were in various degree even less acceptable. No competitor submitted a scheme which resolved all the difficult problems of circulation of patients, staff and supplies in a modern hospital of this size, or left space for the extension of all the treatment and diagnostic departments in such a way that the work of the hospital could proceed without interruption.

"No radical, imaginative or dynamic scheme has emerged from this stimulating challenge to architects. I doubt whether any of the schemes will pave the way to pioneer fresh thoughts in hospital planning.

"The absence of one or more designs which

could have been recommended to the Board without qualification has made the choice of the winning design difficult. The final judgment was between designs Nos. 27 (Design Partnership) and 25 (Charles B. Pearson Son & Partners). They were entirely different in concept and though I had many reservations about the detailed planning of parts of No. 27 I concluded that it was the one which could be further developed into a workable plan to provide a pleasant hospital for the patients and the staff to work in.

"In making this award I am asking the Board to accept a plan which makes no distinction in the circulating areas of patients, staff, visitors, supplies or the disposal of waste, etc. All this traffic will flow through the same corridor. I know that this form of plan is approved in some quarters but I do not share that view myself. I believe that it can be done in small hospitals and the thesis is permissible on grounds of economy. What is open to question is the size of hospital that makes separate levels or other arrangements for the different categories of traffic desirable and economic. Certainly a hospital of 600-700 beds would qualify, so that I regard it as open to doubt whether the hospital of 474 beds should make this distinction.

"I have given the winning design, No. 27, the benefit of this doubt. I make this point because scheme No. 25 takes the opposite view and provided for the separation of the traffic of the patients, visitors, supplies and waste in a most commendable way.

"It has often been said that the winning design in a competition always contravenes the conditions in some way. This one is no exception. Design No. 25 provided eight 'standard' ward units in Phase 1 instead of seven. The authors of the scheme stated this change in the report. I have used my discretion in this instance as I do not think, if any other competitor had taken the same course, it would have materially altered the decision.

"The Board in their instructions to competitors and later in the detailed instructions to the finalists drew attention to certain factors to which they gave particular emphasis. No design appears to have taken all these points into account or their interpretation of these instructions differs considerably from my own.

"The planning of the individual departments was commendable in most schemes but the most consistent fault was linking of them together with the ward units which resulted in long lines of communication for patients, staff and supplies. The naming of a long corridor 'Hospital Street'—a popular current cliché—does nothing to reduce its length or the time taken by staff and patients to travel along it.

"No scheme appears to have taken notice of the trend to make more efficient the means and ways of distributing supplies or to make use of automation in this context. Neither did all the competitors make effective arrangements for the recovery of 'nonconsumable' items or the disposal of waste and 'expendable items.'

"I venture to think that the 'scale' of the problem of the design of a hospital of 474

beds was not fully realised or appreciated, as the basic ideas in the planning of the schemes submitted would have been effective for a smaller project, say of 250 beds, but inadequate in many respects when the same notions were applied to the larger schemes."

In describing the winning entry the assessor remarks that it "is a variation on the plan for the Wrexham Park Hospital, Slough-architects Messrs, Powell & Mova where the maximum advantage of this concept was achieved by having the ward units both sides of 'The Hospital Street,' and the ward units were all on one floor. In this scheme the ward units open off one side of two corridors, at ground and first-floor levels. These corridors are approximately 600 ft. and 530 ft. long at each level. The Slough scheme does not rely on lifts at all, whereas they are essential to this. The general concept seems to me to be the most suitable for the locality and makes good use of amenities of the site. It also takes full account of the difficulties of the site. namely the relatively high water table and sub-soil conditions

"There might eventually be difficulty in having three entrances to the site from Spilsby Road, but the arrangement of a single entrance for the hospital and the staff residences is not insuperable. The large forecourt about which are situated all the entrances to the hospital is excellent.

"The elevational treatment and landscaping have provided a pleasing unity to the design and the choice of materials is consistent with the acceptable standards."

The assessor then makes certain adverse comments about the design which he does not believe to invalidate its merit, including the fact that extensions to many parts of the hospital would appear to be very difficult. that the Isolation Ward is not related to the treatment and diagnostic facilities, that the number of lifts may need further consideration, that natural lighting and ventilation to some rooms in ward blocks is bad, that the operating theatre suite, access for heavy fuel tankers, supplies of plant, height of boiler chimney and site for future ward unit require further examination.

"The total gross area of accommodation provided by this form of planning made it the most economical scheme submitted. The percentage of the circulation space was 30-31 per cent. The estimate of cost was well conceived and showed a realistic appreciation of the difference in costs between the various sections of the work. The estimate of cost of the accommodation for Engineering Services was considered to be low but this would not seriously affect the total cost."

The assessor says of the scheme he highly commended, by Charles B. Pearson Son & Partners, that it shared with the winner the distinction of being conceived as an entity and that many of the individual departments had excellent layouts. He notes that the provision of three staircases per ward unit is excessive, which steps up the gross area which was one of the highest submitted. He also says that the estimate of cost appears to be low.

"I am sorry I am not in a position to make an award to a scheme of greater distinction which would be a new and vital contribution to the planning of a general hospital. I believe, however, that the winning design shows a sensitive feeling for the subject and the report and estimates of cost, provide evidence of specialised knowledge. I trust and feel confident that the authors of this scheme will be able to develop their ideas further with the guidance of the officers and members of the Board and fulfil eventually the high hopes and inspiration which was in your minds in promoting this competition."

BUILDING EXHIBITION,

Full-scale Introduction of SfB Classification

This year's Building Exhibition at Olympia, from November 15 to 29, will provide the first opportunity for a full-scale introduction to the industry as a whole of SfB Classification: hitherto, the organisers believe that the importance of good information on commercial products has been neglected.

A working party on trade literature has therefore been organised by the Building Exhibition, consisting of Egil Nicklin of Finland, chairman of the SfB Committee; Ingvar Karlen of Sweden, and John Brunton, A.R.L.B.A., who has written technical papers on the subject. The three have been commissioned to co-ordinate the theme at the 1961 exhibition.

The working party has already met. It discussed the properties required of good trade technical literature—as distinct from prestige literature, and has analysed the differences between products and services and the similarities of needs of various users.

Twelve years' working experience of the various classification systems—about 50—which have been devised has convinced the Scandinavians that the SfB system has clear advantages over all the others, and the working party endorsed the adoption of SfB, and also the advantages of adopting A4 size paper (11½ in. by 8½ in., or 297 by 210 mm.) for all trade literature.

Representatives of the Ministry of Works, RICS, NFBTE, and other associations of the building trade, with Dargan Bullivant, who is producing the SfB Filing Manual for the RIBA, met the working party for a one-day conference, and put forward the following agreed recommendations:—

After noting the data of all requirements compiled by the working party, they recommend that exhibitors, in preparing their trade literature, should conform as far as possible to these data; that A4 size paper should be used and that where pre-classification by exhibitors is employed (which is desirable), the SfB system should be used. Literature presented in this way, it was pointed out, would be more acceptable overseas as well as in Britain, and would be a valuable help in the export of British

materials and machinery.

MANCHESTER SCHEME

Property Owners Foregather with Architects

All the property and land owners in a seven-acre area of Manchester met at the town hall on April 12, to discuss a comprehensive redevelopment scheme for the area, which is bordered by Lower Moseley Street, Oxford Street and Chepstow Street.

One of the property owners, Donald Shearer & Co. Ltd., had commissioned Grenfell Baines & Hargreaves (now known as Design Partnership) to draw up a composite redevelopment plan, which was outlined to the meeting. A further meeting to continue discussion has been arranged for the near future.

This seems to be the first time that a number of private owners have met in this way to discuss a composite scheme.

COMPETITION

RIBA/Ideal Home Magazine Group Housing Design Competition

The Council of the RIBA have given approval to the launching of a competition jointly with Ideal Home Magazine with the object of encouraging developers, builders, and local authorities to make greater use of architects' services when designing group housing including layout of the whole area. Two sites have been offered for development in connection with the competition—one of 4½ acres at Harlow New Town and one of about 6 acres at Stockport. In both cases a mixed development is envisaged with houses, flats, and maisonettes of varying sizes being subsequently made available for sale.

The President of the RIBA has appointed as assessors for the competition: Sir Basil Spence, O.B.E., T.D., R.A., A.R.S.A., R.D.I., P.P.R.I.B.A.; D. E. E. Gibson, C.B.E., M.A., M.T.P.I., F.R.I.B.A.; G. Grenfell Bajnes, O.B.E., Dip. T.P., A.M.T.P.I., F.R.I.B.A.

Details of the competition will be announced in due course.

COSTS IN USE

BRS Economist Talks to RICS

Studies of the economics of various building designs, to arrive at their "cost in use" were described by P. A. Stone, of BRS, at a meeting of the Royal Institution of Chartered Surveyors in London on April 19.

"Value for money is the useful everyday concept by which people determine their purchases," he said, "but it will generally be agreed that buildings absorb far too great a part of our resources for such crude methods to be acceptable and a systematic approach is essential."

Using a method of reducing initial costs and running costs of a building to a single figure of annual cost, the BRS, he said, had made studies of various building designs, of which he went on to give examples: in one, cladding which initially cost 20 per cent more than an alternative, had a "cost in use" of little more than half of the alternative.

Inclusion of running costs might at first appear to increase the difficulty of cost planning, said Mr. Stone, but in reality it only exposed difficulties and uncertainties which were already present.

ROADS

Effects on Existing Communities

A Public Inquiry was held last week which was regarded by the Minister of Housing as something of a test case: it was to consider whether the village of Catterick should be allowed to put signs on the Great North Road to attract drivers to use its hotels, cafés and filling stations, now that the village has been bypassed as part of the improvements to the A1.

The MOHLG inspector, L. V. Nash, who conducted the hearing, said that so many towns and villages were being bypassed that the question was no longer of purely local interest.

The Catterick traders pointed out that the name of the village had disappeared from many of the road signs on the A1. When the bypass was opened no fewer than 27 signs bearing its name had "Scotch Corner" substituted.

They asked whether communities, now bypassed, which had depended for their economic life on passing traffic, were now to be allowed to decay. Did the country believe it to be sound policy to stifle such areas out of existence, only to be forced to provide fresh facilities on the new roadways?

One garage owner reported a 60 per cent loss of business at peak periods. It was also pointed out that there was a serious drop in rateable value of some properties as a result. The inspector went back to London with the request from the Richmond RDC for a quick decision, in the hope that this loss of revenue to the council could be quickly recovered.

NEW CHURCHES

Architects Don't Know—and Nobody Tells Them

The Dean of Gloucester, the Very Rev. Seiriol J. A. Evans, expressed anxiety about new church building, at a conference of the Central Council for the Care of Churches at Cambridge this month, because "few architects are expert in church building and fewer still have any liturgical knowledge." At the same time very few vicars and church councils, "the people who eventually give the order for a new church," are able to give their architect detailed instructions.

For this reason, the Central Council has set up a panel to prepare a brief for an architect of a new church, which can be used by any vicar or council. The Dean admitted that this was "quite a task," but the panel was now formed and had started its work. It included authorities in different traditions of church planning, including the Liturgical Commission and the New Churches Research Group. Architects on the panel are J. S. Comper, S. E. Dykes-Bower, Dr. George Pace, and Robert Maguire.

TRAFFIC SEGREGATION

Exhibition for Sweden

The National Swedish Institute for Building Research is to show Paul Ritter's Traffic Segregation Research Exhibition at Stockholm and Gothenburg next month (May) and has invited Paul Ritter to lecture in both towns while the exhibition is on.

DIABY

South Bank Development Scheme: Exhibition of models, photographs and drawings at the Tea Centre, 22, Regent Street, London, S.W.1.

Until MAY 6

New Hospital for Boston, Lincs: Exhibition of all designs submitted in the twostage competition organised by Sheffield Regional Hospital Board, at the RIBA, 66, Portland Place, W.1. Weekdays, 10-7, Saturdays, 10-5.

APRIL 27 to MAY 13

Movement in the denser urban areas by C. D. Buchanan, TCPA Planning Forum, at the Planning Centre, 6.30 p.m.

May 1

Valuers, Quantity Surveyors and Architects
—Combined Operation or Eternal Triangle?
RICS, 12, Great George Street, London,
S.W.1, at 5.45 p.m.

MAY 1

The Repair of Ancient Buildings: S.P.A.B. Annual Course. Details from the Secretary of the Society, 55, Great Ormond Street, London, W.C.1.

MAY 1 to MAY 6

Exhibition of Winning Designs in the Industrial Art Bursaries Competition: Royal Society of Arts, John Adam Street, Adelphi, London, W.C.2. Opening by Sir John Summerson at 3 p.m.

MAY 2 to MAY 19

"Buildings of England": Professor Nikolaus Pevsner on the compilation of this series, RIBA Library Group, 66, Portland Place at 6 p.m.

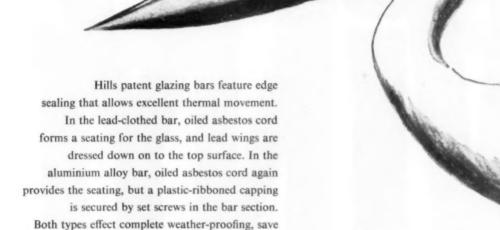
MAY 2

Building at the Zoo: Sir Hugh Casson and Peter Shepheard, the Meeting Hall, Zoological Gardens, Regents Park, 6.15. Tickets only, Organised by the Junior Liaison Committee of the Joint Advisory Committee on Training in the Building Industry.

MAY 4

Annual Dinner and Dance: Bristol Building Centre, at Ashton Court Country Club. Tickets, £1 per person, from Bristol Building Centre (Tel. 27002 & 22955).

MAY 8



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This week Brian Grant describes a range of pumps, furnishing fabrics, tracing material, an imported desk and tiles which resist high heel loads

Pumps of All Kinds

A recent catalogue from Beresfords illustrates almost all kinds of pump, from the submersible type for drawing water from deep boreholes, and with outputs up to 100,000 gallons per hour and heads up to 1,200 feet. The firm also manufactures automatic pressure pumps to provide a constant pressure supply to houses or flats drawing water from wells, or for boosting mains pressure to reach the top of high buildings. Also produced are pressure washing units for garages or farm machinery, and a considerable range of cellar sump drainers. (James Beresford & Son, Ltd., Ace Works, Kitts Green, Birmingham 33)

Badenia's desk of Norwegian design



Furnishing Fabrics

Conran Fabrics are now importing fabrics from Sweden, Finland and Denmark, and have also started a design studio which includes a weaving and yarn dyeing section. The studio designs printed and woven textiles for curtains, upholstery and carpets. Since everything is under one roof it is possible for clients to give a direct brief to the designer, a sensible but all too infrequent arrangement. (Conran Fabrics Ltd., 5 Hanway Place, London, W.1.)

Material for Tracing

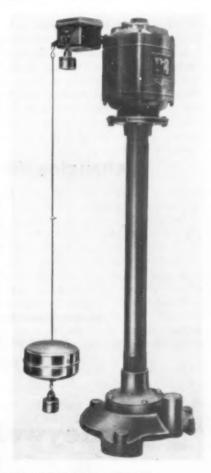
Duratrace is a plastic drawing material on a base of I.C.I. Melinex and has a fine uniform matt surface suitable for either pencil or ink. The sample received is very difficult to tear, and the makers claim that it will not yellow with age or deteriorate with constant photoprinting, and that it is dimensionally stable: erasure and correction are easy without any "ghosts" appearing on prints. Standard sheets are produced with any required printing, or the material is available in 20-yard rolls £7 5s. each 30 in. wide and £9 3s. 4d. for 40 inch. (The Nig Manufacturing Co., Ltd., 3-9 Dane Street, High Holborn, London, W.C.1.)

Getting on with the Homework

Specially designed fittings with a place for everything tend all too often to be somewhat over-designed, but a recent Norwegian effort, illustrated left, seems reasonably straightforward and not too complicated. Architects will still need space for a drawing board, but there is room for almost everything else, typewriters, files and reference books as well as stationery. Price is £65, but the whole job seems quite well made. (Badenia Calculators Ltd., 72 Red Lion Street, London, W.C.1.)

Floors for Heels

I believe that the fashion writers now maintain that stiletto heels will shortly be out, or perhaps it is no more than that toes are to be less pointed, but whichever it may be a Reading firm has now intro-



A Beresford cellar drainage pump

duced a 12 by 12 in. cork and nitrile rubber tile tough enough to stand up to the heel load. The tiles are claimed to be silent and to have a pleasant springy feel, and to adhere to any normal under surface. Standard tile adhesives can be used, and the underside of the tile is embossed to give greater sticking power. There are seven standard colours and the tiles are also suitable for commercial use as they have good oil resistance and are non slip. (British Technical Cork Products Ltd., Caversham Mill, Mill Road, Caversham, Reading, Berks.)



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10 DESIGN: BUILDING TYPES

Some aspects of housing for old persons, 2

This week Vere Hole, a social anthropologist working at BRS, concludes her report of an enquiry into the way in which the occupants of 61 old people's dwellings in Edinburgh used their homes and what they thought about them.

MAINTAINING THE HOME

In discussions of the housing needs of old people, it is often stressed that dwellings should be easy to clean and maintain so that, despite the physical impairment which comes with growing old, the old persons may remain independent as long as possible. When asked, 70 per cent of these tenants said they could get about easily and only 15 per cent admitted to having difficulties. As so many in the sample were still fairly active, they were able to cope with cooking and housework: 75 per cent of the households were entirely self-sufficient in this respect. Those who received outside help with their housework obtained it mainly for cleaning floors (20 per cent), and windows (25 per cent) and for household washing (20 per cent). In the majority of cases this assistance came from other family members, usually the daughter; in only three cases in the entire group did a neighbour give regular help with the housework and one household had regular visits from a home help. Almost all of the tenants found their homes easy to look after; one of the chief difficulties experienced was in cleaning windows which were situated over a sink, or where the gap between window and wall was insufficient to allow the housewife's arm through in comfort. Such complaints are already familiar in surveys conducted among younger housewives.

Provision for household washing was in the form of a tub and sink unit which is customary in Scottish local authority housing. When the suggestion of the Scottish Housing Advisory Committee11 that one deep sink would be sufficient for elderly persons was discussed with the tenants most said they felt the need of both sink and tub, although 30 per cent, mostly single person households, said that one sink would be satisfactory. In almost all households some washing was done, and 55 per cent of housewives did their entire wash at home. Another group (25 per cent) sent large items to a commercial laundry and others,

already mentioned, relied on assistance which was primarily of a personal kind.12 The fairly limited use made of commercial laundries is not entirely attributable to the restricted budgets of old persons, as resistance to the use of these services had been found in younger households both in Scotland and elsewhere. For drying and airing clothes, all dwellings were provided with outdoor greens, and heated cupboards; in addition Types B and D were provided with ceiling drying racks in the kitchen. Tenants appreciated drying greens situated immediately behind their dwellings. but on the demonstration scheme the position of the greens at each end of the terrace of bungalows was disliked, both for the extra walk it entailed and for the fact that the washing was not under the immediate surveillance of the housewife from within the dwelling. All of the tenants who had been provided with ceiling racks for indoor drying used them for this purpose and a few also used them for airing in preference to their heated cupboard. As might be expected, in those dwelling types without a ceiling rack, more extensive use was made of the heated cupboard for both drying and airing, but other means of drying were also employed; in five cases improvised clothes lines were used and in two out of seven cases a ceiling pulley was installed by the tenant in the sun porch, and clothes-horses were placed about the living room fire. The intention of the designers, in eliminating the ceiling rack and providing a large13 heated cupboard, had been to improve the general amenity of the dwelling by keeping all washing out of sight and reduce possible accident hazards. Although the tenants did not in fact use the equipment as intended, they were, nevertheless, satisfied with the arrangements which they had.

STORAGE

The amount of storage space provided in these dwellings ranged from 29 sq. ft. in the one person flats to 46 sq. ft. in the two person flats. It was only in the latter dwellings that an outside store was provided. Surveys carried out in dwellings occupied by families have revealed considerable demand for general storage space, particularly to accommodate items such as large toys, prams, bicycles and stepladders. The absence of such possessions in the old persons' households may perhaps account for the lack of any specific storage demands, and their general satisfaction with whatever cupboards they had. It was only in the one group of dwellings where tenants had a

¹¹The Housing of Special Groups, p. 20.
¹⁸A survey carried out amongst persons in Edinburgh over the age of 60 showed that of the various domiciliary services, assistance with laundry was needed most. C. Gordon, J. G. Thomson and A. R. Emerson—"Domiciliary services for over sixties," The Medical Officer, vol. 98, July 12,

p. 4, "In Type C bungalows the heated cupboard was 5-8 sq. ft. in area, in Type A flats 5-6 sq. ft., in Type D bungalows it was 4-1 sq. ft, and in Type B flats 3-3 sq. ft.

technical section

private garden that a small proportion expressed a desire for general storage to accommodate large garden tools.

HEATING

As might be expected from other surveys of tenant experience, the improved open fires were generally regarded as a satisfactory form of heating. The two types of demonstration dwelling had in addition a radiator of 13 sq. ft. in the bathroom; these were liked by the tenants and used when bathing. When questioned, slightly under half of those tenants with no heating in their bathroom said that they thought it would have been useful. Tenants had in addition electric fires and paraffin heaters to use when their fire was not lit, or to boost the heat of the living room in cold weather. However, even in summer, over half of the tenants lit their fire every day. There were complaints of draughts, mainly from the front door, in dwelling Types A, B and C; the tenants in Types D and C dwellings were the most satisfied with the warmth of their houses.

ASPECT AND ORIENTATION

Considerable care had been exercised by the architects in orientating all these dwellings in the sample so that with the exception of a few in the Type B group, all living rooms faced south or south-west. This was appreciated by the tenants, who liked afternoon sun in the living rooms and morning sun in the kitchens; they also found the daylighting adequate in most rooms, with the exception of the version of Type D plan where the bedroom was situated at the front of the dwelling; this was found to be overshadowed by the porch, and therefore rather dark.16 The chief demands of tenants with regard to window design were that they should be easily accessible for cleaning, and that a small ventilating window should be provided in the living room; low sills in this room, enabling a good view of the outside, were appreciated.

Fig. 1. The maisonettes for families on the same site may be seen in the background. Note the large amounts of curtaining in the glazed sun porches. The beginnings of a hedge in the foreground mark the private gardens of these tenants



Tenants' requirements concerning window size were not specific, but there were limits to the amount of glazing desired: some tenants in Type C bungalows thought that their living room had too much sun, and those in Type A flats complained of the excessive cost of curtaining the large splayed window there. It was usual for windows to be heavily curtained: one half or more of the area of living room windows was customarily obscured by curtains of opaque material, and in the sun porch of Type C bungalows the arrangement of thick curtains was similar, despite the blank wall provided on the eastern side of the sun porch to prevent overlooking from other bungalows in the terrace. Discussions with tenants about curtaining did not suggest that they were particularly concerned about privacy from the view of passers by, as they regarded the primary function of curtains as decorative. This attitude towards the arrangement of curtains over windows has been found in surveys of younger housewives also.

SITE LAYOUT

It is frequently suggested that dwellings for old people should be sited on the same scheme as those for families, is so that older persons will not sever their contact with younger age groups, and will have a source of help in time of need. Following on this principle, the older people's dwellings on the demonstration scheme were grouped about a grassed court-yard, with maisonettes for families on the opposite side (see Fig. 2). The other dwellings types (B and D) were both grouped in small schemes designed exclusively for old persons.

An outlook which provided a view of persons going by, and of road traffic, was valued by the old people; one scheme which was set back from the road, and where the only people to be seen from the windows were other old persons, was thought to be depressing for this reason. On the other hand, freedom from disturbance was also desired. On the scheme which combined families with old persons, the latter were often worried by the noise of children playing, and the fear of possible damage to windows and gardens from ball games. This annoyance arose from the siting of a children's playground in the courtyard opposite the old persons' bungalows, and a footpath which passed close to the kitchen windows of these bungalows and led to the street through a covered passage beneath the single person flats. This arrangement of access encouraged the riding of wheeled vehicles by children and other forms of noisy play near the old persons' dwellings. Although the occupants of houses for families also complained occasionally of noise from the playground, or of children playing too near the entrance of their dwelling, they were generally less susceptible to annoyance in this way than were the

¹⁴The daylight factor in this bedroom which is shadowed by the porch is 0.5 per cent, and therefore just meets the recommended (B.S.I.) value of daylight factor for bedrooms; in the other version of the plan, the daylight factor in the bedroom is 0.9 per cent.
¹⁸Housing for Special Purposes, p. 10.

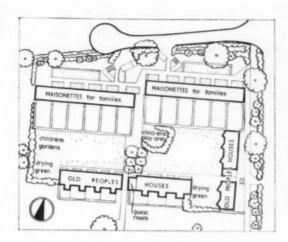
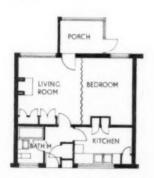


Fig. 2. Layout plan of site illustrated in Fig. 1

Fig. 3. Plan of old people's houses (type C) illustrated in foreground of Fig. 1 and shown in the layout plan above



old people. It is perhaps fair to add that at the time of the survey there was a shortage of equipped playgrounds in the area of the demonstration scheme, and that a number of children from outside the scheme added to the disturbance.

When the question of separate or mixed schemes for old persons was discussed with the tenants in all dwellings, the balance of opinion was slightly in favour of a separate scheme. However, since questions of access, outlook of dwelling, closeness to transport and shops and so on are equally important factors in the location of old persons' dwellings, planning decisions should perhaps be based not on the separation or combination of old persons and families, but on whether a possible site for old people's dwellings offers some protection from noise without seclusion from all activity, and whether, in the layout of the site, pedestrian access and play can be diverted from the immediate vicinity of the old people's dwellings.

GARDENS

The extent to which tenants really wish to cultivate the private gardens allotted to them is a controversial issue, and in the case of older persons there is the possibility that infirmity may render a garden a real burden. Amongst the tenants in the present survey only one group (Type C bungalows) had small garden plots in front of their dwellings, although it was planned to make similar provision for tenants in the flats at a later date. On the site of the other bungalows the grounds had been grassed up to the dwellings themselves, and in order to facilitate maintenance by the local authority, no private garden plots were available for tenants. The question of whether or not private gardens were desired was discussed with the tenants. A number of them who had previously occupied houses with large gardens were glad to be relieved of the responsibility, and some women who were living alone were apprehensive of the heavy work that a garden might entail. The small plots, about 5 sq. yd., provided for one group satisfied all but the most enthusiastic gardeners but amongst those who had no garden at all there were a number of men who had been keen gardeners, and who felt that one of the few means of filling in their time on retirement had been denied them.

CONCLUSION

In the extensive literature dealing with older people, any discussion of housing tends to concentrate on provision for physical infirmities. Almost no attention has been paid to the broader and possibly more important question, "In what way do the housing needs of older people whose health is normal for their age differ from those of other small households drawn from younger age groups?" The present small survey, carried out in one area only, cannot provide a definite answer to this question. However, by comparing results from this survey with information obtained from other types of household, the special problems in designing housing for old people can be identified for more detailed attention.

A description16 of the demonstration scheme emphasises certain features intended to obviate accidents. Few comments can be made on these features on the basis of the present survey. Since the more seriously handicapped tenants are customarily housed in some type of home or hostel, and since only a year or so had elapsed since the tenants in the present survey had been rehoused, few of them were suffering from any serious disability. This may in part account for the difficulty in obtaining useful information from the tenants concerning the ease with which switches, socket outlets, gas meters and so on could be reached, as they clearly considered other aspects of house design and certain broader social issues of rehousing more important. Experience in other surveys has shown that housewives are often uncritical in small matters of house design until they have experienced some alternative arrangements which provide a basis for discrimination. Added to this, the old people seemed to feel a certain remoteness or indifference to the physical environment in comparison with other

^{16&}quot; Demonstration housing at Muirhouse, Edinburgh," Municipal Journal, vol. 65, Jan.-June 1957, pp. 649-650.

technical section

issues with which they were concerned. It is perhaps as well that old persons should not be unduly accident conscious, but measures taken by the designer to prevent accidents are not always perceived as such by the user: for example the specially prepared non-slip floors in the demonstration houses were all covered with linoleum and rugs by the tenants.

On an assessment of general satisfaction, those tenants in Type D bungalows appeared to be the most satisfied of all; this was probably primarily because they had two separate rooms, but warmth and freedom from draughts, together with a quiet situation, were important contributory factors. The next most popular dwellings were the Type C demonstration bungalows and then the Type A flats. Hence a dwelling which was well designed on conventional lines proved to be the most acceptable.

Among this group of old persons some differences were noted in their use of the dwelling which may represent a difference in requirements between older and younger households of the same size. It was less customary for the old persons to eat meals in the kitchen than has been found in families occupying dwellings with a single living room. Storage requirements appeared to be less specific and less exacting than those for younger households. Restricted income may limit the number of visitors who may be entertained for even a light snack, as well as for staying overnight. However, there was also evidence of an unwillingness to make the extra effort necessary for entertaining. It is of interest that, in common with other studies17 of a more sociological nature, it was found in this survey that the wider family constituted the most important agent in giving assistance in household tasks which the old persons found onerous

One of the most important features of the demonstration dwellings was the special equipment provided in the bathrooms. In view of the care and thought which went into their provision, it is disappointing to find this equipment was comparatively little used. However, the main reasons for failure do not appear to be connected with the design of these fixtures, but with their novelty. Particularly in the case of the showers the tenants were confronted with an installation which is rarely found in private homes in Great Britain, and had no clear idea of the reasons why showers were provided, and the dangers that they were intended to combat. Where new features of this type are introduced, it would seem well worth while to have a housing manager or welfare worker discuss them with the tenants, in order to encourage their use. It was clear from the difficulties experienced by some tenants in Type D bungalows in manipulating their flues that old persons require rather more help in mastering new equipment than is usually given to local authority tenants.

The layout of the site on the demonstration scheme brought favourable comment in the architectural press for the sense of enclosure provided by dwellings grouped about a sheltered court, with provision for children's play and for old people to sit in an area free from traffic, and where careful planning had excluded drying greens from the general view. At the time of the survey the playground was a source of annoyance to the old persons (conversely mothers living on the scheme felt that their children were sometimes harassed by the old people), and the area intended for the old people to sit in was little used because the boundary for play and adult recreation was not clearly defined. Instead of viewing the open stretch of grass as an amenity, the old persons complained because washing lines were excluded from this area and located instead at the end of the terrace.

When, particularly in questions of architectural design, the point of view of the user contrasts so sharply with that of the architect it is sometimes felt that design and planning based on user opinion would result in unexceptional mediocrity. This criticism is hardly justified. The architect has often to proceed without adequate information concerning the real needs of the user; the user on the other hand rightly complains about innovations which are introduced purely for reasons of fashion or æsthetics. Surveys may contribute to an understanding of the way in which changes and improvements may be introduced so that they will be fully utilised by the tenant, as well as providing a useful brake on innovations which might be too far removed from the needs of the user. For example, the present survey has shown certain obstacles to an excellently conceived scheme for combating loneliness amongst old persons. The guest room had stood empty for a year, and the combinations of families and old persons on the one estate provoked complaints rather than amity. In discussions, the old persons tended to stress the negative aspects of living among families, and, despite the loneliness of which many of them complained, they appeared to withdraw from contact with neighbours, including other old persons. This phenomenon is not a peculiarity of old persons as such, but has been found amongst younger housewives on housing estates.18

The needs of older persons in relation to housing still require clearer definition, but it would seem that if the social welfare concepts of dwellings especially adapted to these needs are to be fully realised, well-designed dwellings are in themselves insufficient. Housing management policy will play an important part, and if the integration of old persons into the community is to be encouraged, social factors affecting or hindering the formation of new communities must be considered in addition to questions of site layout.

This study was undertaken as part of the research programme of the Building Research Board of the Department of Scientific and Industrial Research, and this paper is published by permission of the Director of Building Research.

 ¹⁹P. Townsend, The Family Life of Old People (London: Routledge and Kegan Paul, 1958).
 ¹⁸V. Hole, "Social Effects of Planned Rehousing," Town Planning Review, 1959, vol. 30 (2), July, pp. 161-173.



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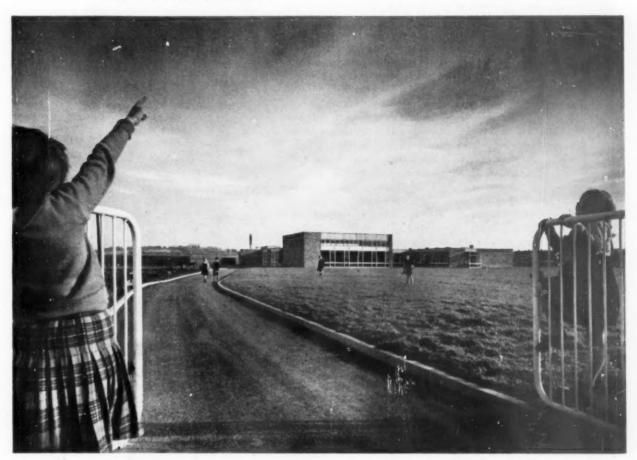


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The Architects' Journal for April 27, 1961 [609

UDC No. (97)

The approach to the school from the west



Junior School

at Cheshunt, Hertfordshire

This school should be regarded as a controlled experiment by Hertfordshire, to see whether the lessons from the prefabricated schools, forming the vast bulk of the county's programme, can be applied to conventional construction for use on small projects. It is of equal interest as a highly economical and workable solution from the point of view of the user.

for Hertfordshire County Council,
G. C. Fardell, County Architect

job architect
quantity surveyors
C. M. Nott, Principal Quantity
Surveyor, County Architect's
Department
D. L. A. Stracey, Chief Assistant

The Architects' Journal for April 27, 1961

building study-2nd series

APPRAISAL: Cheshunt lies in the Lee River Valley, and is on the flat. The school site is bounded on one side by an extensive line of commercial greenhouses, which make an interesting backdrop to the school when seen from the west. The remaining sides of the site are bounded by indifferent speculative housing, and there are no existing trees to provide a relief from this man-made skyline.

Close by, also in Cheshunt, is the first dry-constructed school of the Herts post-war programme. A review of the county's policy and progress would be out of place here, but questions about this particular school will inevitably arise. Above all, is this building a denial of previous work at Herts?

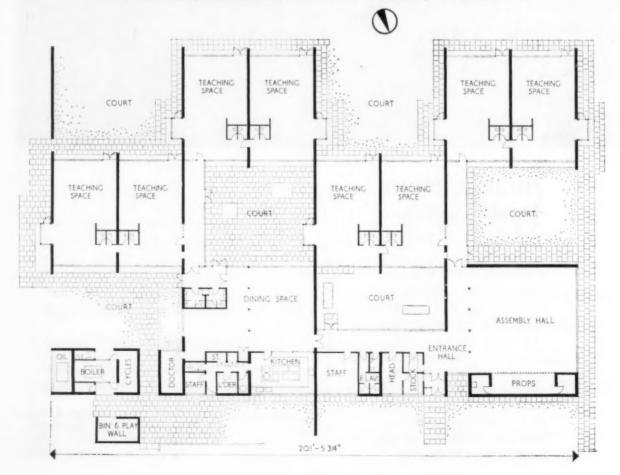
The key point in this respect is that some fifteen years ago there were very few bricks and no bricklayers, one of the prime factors in the decision to develop component prefabrication methods.

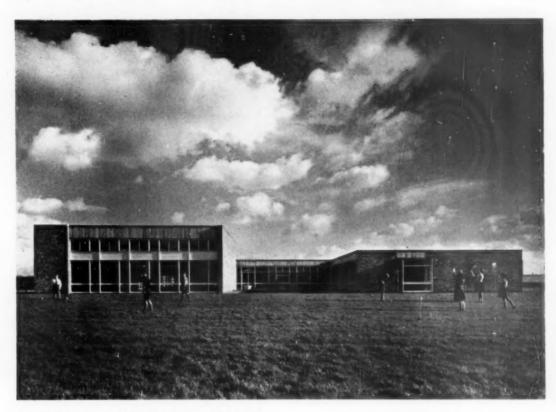
Now there are limited quantities of both available in the county. This project, to test out a rationalised version of conventional loadbearing construction, is therefore in line with previous thinking. Herts argue, for instance, that they have two advantages over most other counties with their schools building programme. One is this open-mindedness about the best solution of a given problem or group of problems. The other advantage comes from a combination of size and autonomy; in other words, they have a big enough programme to pursue experimental and other work without a direct need to set up a consortium to put it into effect.



Block plan [Scale: tho" = 1' 0"]

Ground floor plan [Scale: #" = 1' 0"]





The west side of the school with the assembly hall on the left

This pilot project therefore has its place as a field experiment within the context of this open-minded and flexible attitude of the county. Its most important feature is the planning grid, which works like a Scotch plaid in one direction only. Eleven inch cavity walls, running north-south, carry a timber roof structure based on a four-foot square grid. The structural wall "zone" occupies twelve inches in one direction only, each zone being separated by three 4 ft. o in. modules. The assembly hall and boiler house structures are free to be dimensioned outside this mechanism because they are outside the main plan area.

Similarly, the structural walls themselves can be made either to comply where necessary with the intervening grid (such as at entrances to classrooms) or to disregard this limitation where doing so may give some architectural or planning advantage. Where open support is required for the roof structure, such as in the dining area, six-inch square timber columns comply with the 4 ft. o in. grid in one direction and are placed centrally in the 12-in. wall zone in the other. It is surprising that even this much obstruction was considered necessary or desirable.

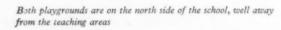
The plan as a whole is pleasant and workable, following usual practice in the county and elsewhere of pairing classrooms, with the adjoining open service area being used as a passage. The inner courts are very successful; in contrast the outer ones are strictly utilitarian, at least for the moment. The roof structure consists in principle of plywood-web timber beams which have a slight pitch on the top chord which creates a 4-in. fall across the typical classroom span.

These specially designed and developed beams occur at four-foot centres, separated and laterally braced by timber noggings, which are also on module. The beams and noggings together provide fixings and support for the compressed straw panels carrying the roof finish, and equally for the ceiling finish in the plane of the bottom chord of the beams. For the most part the detailing arises naturally out of the logical organisation of plan and structure, and quietly emphasises the way in which the various elements have been brought together. Examples of this are the stopped ends of the eleven-inch cavity walls and the junction between windows and fair-face brickwork. The solid angle eaves capping detail is also admirable. Slightly less successful are the short vertically boarded fascias and the panel decoration of the assembly hall ceiling. One cannot help observing that decoration, if it is to have its place in this type of " less is more" architecture, should attempt to emphasise the structural intention rather than obscure it.

The fenestration generally might perhaps have been further developed in its detailing. Bearing in mind that an important economic limitation with joinery windows is the number of different sections required, it seems here that this fact might have been made a virtue in arriving at a simpler and more robust solution, within very much the same terms. There is again a slight indecisiveness about the main classroom windows, where the central wall between each pair of classrooms is recessive, in contrast to the outer walls. But these points emerge only because of the general clarity and logic of the rest of the detailing.



External court, with a pair of classrooms on the left, and the boiler house on the right



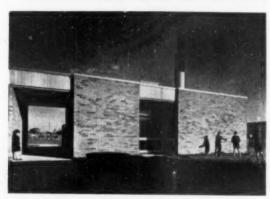




The school from the south-west

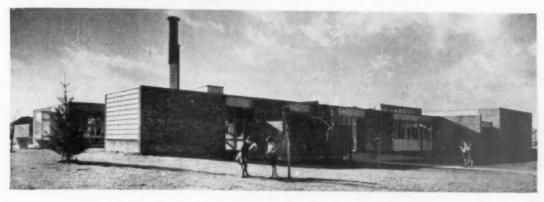


South side of the school



The boiler house projects out to form the north side of one of the external courts





building study 2nd series

Much of the interest of this school is that it has been economically constructed despite a high standard of finishes and equipment, and that it is highly successful from the point of view of the user. It is most worthy of attention, however, as an example of a certain type of thinking, and as the precursor of a number of other small Herts buildings in which the methods used in this pilot experiment will be further developed.

PLANKING AIMS AND CONSTRUCTION

(a) In 1948, the first post-war primary school constructed on the basis of dimensionally related prefabricated components was opened at Blindman's Lane, Cheshunt. The majority of the 200 new schools which have been completed, or are now under construction in Hertfordshire since that date, have been built using methods developed systematically from the early Cheshunt prototype. This continues to be the main policy of the County Architect's Department. This approach to school construction, as later sponsored and developed by M.O.E., has played a very important role in the post-war school-building programmes. The development work subsequently undertaken by the C.L.A.S.P. group of local authority offices has now extended the method to serve an ever-widening field of education authorities.

Whilst pursuing their main policy of development, using mainly light steel frames for the structural element, the Herts architects have always been conscious of the desirability of pursuing parallel developments into other forms of rational structure. This has provided a readily available basis for cost and performance checks on the main programme and in the past has provided useful reserve methods when problems have arisen in the supply of key materials. Various alternative frame systems have been explored and developed, using concrete and timber, and for some years a small programme has been allocated to the investigation of the possibilities and limitations of the use of a rationalised form of load-bearing brick construction.

This development has been mainly confined to education minor works consisting of first instalments of new small schools, or extensions of older schools.

As this part of the county's building programme continues to expand and the general method has proved to be economic and suitable, it was decided in 1958 that a complete school should be allocated to test out the approach in a more comprehensive way. The terms of the brief included investigating the possibilities of relating the method of construction to the modular development which continues to be a main feature of the work of the office.

The success of the experiment can best be judged from detailed descriptions in the other sections of this article, but the general reactions of architects, teachers and educationists who have visited the school have been very favourable, and the building has so far proved to be successful in every

It is now intended that the methods used shall be further developed to deal with the increasing volume of work in clinics, occupation centres and similar small county buildings.

(b) The uninteresting site gave an indication towards an "inward looking" plan which would provide an opportunity for the classrooms to look into small and intimate courts as an alternative to the poor outward views. To achieve this a single-storey plan was adopted. The aim in designing this school was simplicity in plan and construction based on the use of brick cross walls in regular straight runs in relation to modular spaces based on multiples of 4 in.

The standard minimum classroom width of 24 ft. 0 in. was the governing factor in the spacing of the main structural cross walls, which run north and south. These walls built in

11 in. brickwork with a 2 in. cavity are in the centre of a 12 in. modular space, which continues throughout the building at 24 ft. o in. intervals. The 1 in. difference between the II in. wall and the I2 in. structural zone allows 1 in. tolerance on either side of the wall, as well as providing for a 1 in. wall finish where required. The clear room width of 24 ft. 0 in. divided into 8 ft. 0 in. bays, allows for standard ceiling panels of modular sizes (4 ft. × 2 ft.).

The roof structure comprising glued plywood web-type beams at 4 ft. o in, centres (with the beam centre lines on the module line) has 2 in. square timber roof and ceiling noggings at 2 ft. o in. centres. 8 ft. × 4 ft. × 2 in. compressed strawboards are fixed on the top boom of the beams and the ceilings are of ½ in. asbestos cement insulation board and Parana pine.

The overall depths of the beams vary from 17 in. to 21 in., giving a slope of 4 in. in the 24 ft. o in. length to provide ample fall for roof drainage. The classrooms are grouped in pairs to allow the roof falls to slope inwards to form a central gutter over the structural walls. The roof is finished with asphalt and white chippings.

Rooflight openings are made quite simply by lining the inner face of the spaces formed by the roof beams and noggings. Where 4 ft. o in. square rooflights have been used, one top and bottom noggin; has been omitted and the openings are trimmed back to the module line.

In those parts of the building requiring a clear space in excess of 24 ft. o in. width (for example, in the dining room area) the 12 in. structural or neutral zone is occupied by a simple timber post and beam construction which replaces the II in, brick wall.

The infill panels between the cross walls are in all cases window units in standard 8 ft. o in. widths, the inside faces of which are on module line.

The floor to ceiling height in the classrooms is 8 ft. 8 in., the standard height in the majority of the Hertfordshire schools. This height also allows for the use of existing Herts standard drawings for such components as storey height internal door frames, classroom lavatory, storage and heater unit, etc.

The Assembly Hall is constructed in a similar way, with the exception of the walls which are 131 in. thick with beam spans of 40 ft. 0 in. The inner face of these walls is ½ in. outside the planning module, and all the walls of this room are on the periphery of the modular spaces to provide the continuity of detail which prevails throughout the school.

CLIENT'S REQUIREMENTS

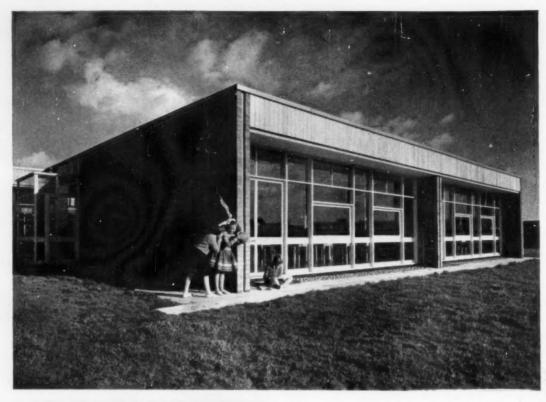
(a) A junior school comprising eight classrooms, each large enough for 40 children, a dining space which could be used as a temporary classroom, an assembly hall, head teacher and staff accommodation, library corner, doctor's room, ancillary accommodation, including kitchen, boiler house, stores, kiln room, lavatories and cloakrooms.

(b) There was a desire on behalf of the client to build a primary school using traditional materials but embodying all the successful features of the large number of primary schools built in framed construction in Hertfordshire over the past ten years.

(c) Although the M.O.E. cost per place stood at £154 at the time this school was designed, a limit of £150 per place was suggested as an exercise in economy without any reduction in the areas of rooms or quality of finish.

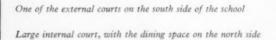
Access corridor past the administrative wing from the entrance area to dining space, opposite

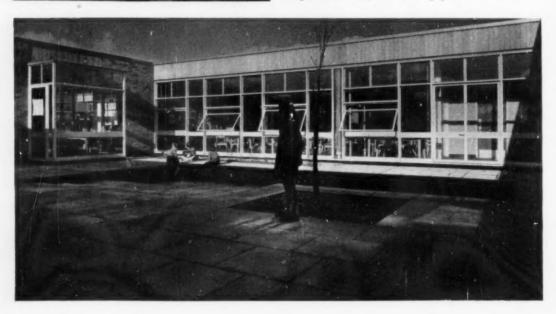






Typical south elevation of the classroom pairs. The central division wall is slightly recessed, giving an inequality to the structural expression





s d

building study 2nd series

SITE

The site of statutory M.O.E. acreage is flat, rectangular and uninteresting. It has no trees and was originally partially covered with large commercial greenhouses. On the eastern side they still exist beyond the boundary. On the southern and western boundaries, and to a certain extent on the north, the site is surrounded by housing development of mediocre design. Access to the site is across a relatively narrow open space between semi-detached dwellings. Water, gas and electricity connections are from the adjoining estate road off Cadmore Lane.

SUMMARY

Ground floor area: 14,722 sq. ft. Total floor area: 14,722 sq. ft. Type of contract: RIBA. Tender date: April 1959. Work began: May 1959. Work completed: April 1960. Tender price of foundations, superstructure, installation and finishes, including drainage to collecting manhole: £44,968 cs. od. Tender price of external works and ancillary buildings, including drainage beyond collecting manhole: £8,320 os. od. Total: £53,288.

COST ANALYSIS

Contingencies

Based on tender. (AJ revised elemental breakdown in use from November 10, 1960.)

sq. ft. s d Preliminaries and insurances 0.3 per cent of remainder of contract.

Work below lowest floor finish 5 3 5-in. reinforced concrete site slab, partly on hardcore to make up levels. Includes 2-in. preparatory bed of ashes and two coats damp-proof membrane. Edge beam 8 in. × 13 in. under external windows.

STRUCTURAL ELEMENTS

Upper floors Tank room: 1-in. softwood on joists; 33 sq. yds., 33s. od. per sq. yd.

Roof 17-in. deep patent plywood beams at 4-ft. centres, spanning up to 24 ft., and 2 ft. 5 in. deep spanning 40 ft., finished with two coats asphalt on 2 in. thick compressed straw panels.

Cost includes gutters, eaves, western red cedar fascias and 3-in. diameter aluminium rainwater downpipes; 1,610 sq. yds., 95s. 9d. per sq. yd.

32 rooflights with aluminium frames, opening and fixed, glass louvres, timber linings and curbs; 42 sq. yds., 66os. od. per sq. yd.

Ventilating rooflight over kitchen with adjustable glass louvres, timber linings and upstands; 21 sq. vds., 408s, 6d. per sq. vd.

External and internal structural walls 5 01 11-in. external walling, 41-in. silver grey facings, 2-in. cavity, and inner leaf of 41-in. commons: 605 sq. yds., 59s. 6d. per sq. yd. Similar but with inner leaf of facings; 200 sq. yds., 75s. 11d. per sq. yd. 9-in. walling in commons; 321 sq. yds., 36s. 7d. per sq. yd. 9-in. walling in facings; 3 sq. yds., 61s. 10d. per sq. yd. 4½-in. walling in commons; 220 sq. yds., 18s. 2d. per sq. yd.

Windows 7 81 Timber frames with inset metal opening lights and doors, adjustable glass louvres; 5,769 sq. ft., 8s. 21d. per sq. ft. 6 bay windows, each 8 ft. x 3 ft. x 9 ft. high, softwood framed including inset metal doors and adjustable glass louvres, chipboard roof finished in aluminium; 756 sq. ft., 30s. od. per sq. ft.

External doors 21 Doors to oil store: softwood boarding on mild steel angle; 132 sq. ft., 23s. 10d. per sq. ft. (Remainder of external doors included in windows.)

3-in. and 41-in. lightweight concrete blocks; Cost per 324 sq. yds., 17s. 3d. per sq. yd. Softwood glazed screens with inset metal doors and frames; 56 sq. yds., 82s. od. per sq. yd. Softwood glazed screens to w.c.s, including flush doors; 58 sq. yds., 151s. 6d. per sq. yd. Plywood w.c. partitions and doors; 84 sq. yds., 51s. 10d. per sq. yd.

Softwood lattice truss in assembly hall, faced with I-in. boarding one side, I-in. wallboard the other; 15 sq. yds., 126s. od. per sq. yd. Softwood framed and glazed opening; 3 sq. yds., 126s. od. per sq. yd.

Internal doors 26 flush in softwood frames, including glazed laylights over to ceiling level; 208 sq. ft., 38s. 9d. per sq ft.

Total of structural elements: 28s 71d

Anodised aluminium generally.

FINISHES AND FITTINGS

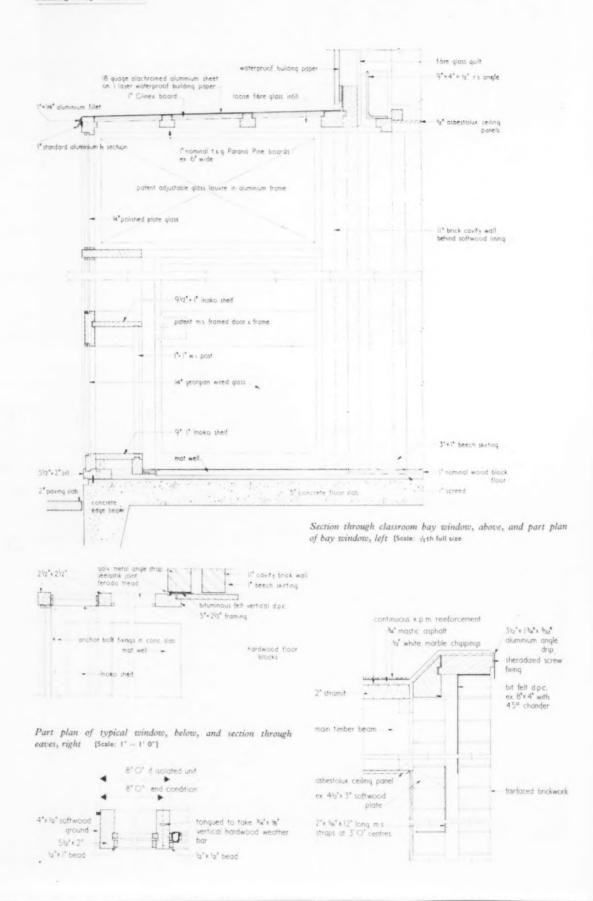
Ironmongery

10 9

73 Plaster; 888 sq. yds., 5s. 11d. per sq. yd. Glazed wall tiling; 77 sq. yds., 53s. 3d. per sq. yd. Floor finishes 5 21

2 4 2-in. precast concrete paving slabs; 8 sq. yds., 17s. 1d. per sq. yd. 2-in. granolithic; 29 sq. yds., 20s. 10d. per sq. yd. 6 in. \times 6 in. \times $\frac{7}{8}$ in. blue quarry tiles; 164 sq. yds.,

building study-2nd series

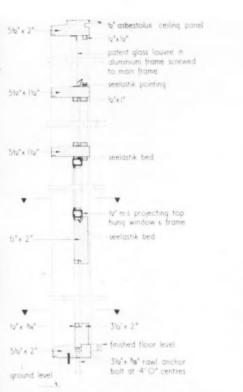






Each classroom is provided with a fully glazed bay window Entrance hall, which overlooks a smaller internal court





Section through typical window [Scale: 1" = 1' 0" Assembly hall with its decoratively panelled ceiling



40s. 4d. per sq. yd. $\frac{3}{16}$ -in. rubber flooring; 181 sq. yds., 52s. od. per sq. yd. 1-in. East African olive wood block; 827 sq. yds., 43s. 4d. per sq. yd. 1-in. Rhodesian teak wood block; 378 sq. yds., 45s. 7d. per sq. yd.

Geiling finishes

½-in. insulation board on timber noggings on hangers; 984 sq. yds., 15s. od. per sq. yd.
Asbestos cement panels on timber noggings on hangers; 200 sq. yds., 26s. 4d. per sq. yd.
Parana pine tongued and grooved boarding, secret nailing; 385 sq. yds., 15s. 4d. per sq. yd.
2-in. woodwool slabs; 96 sq. yds., 14s. 7d. per sq. yd.
Fire-resistant plaster to concrete soffit; 22 sq. yds., 102s. 6d. per sq. yd.

Decorations

Gloss paint on softwood and metalwork, semi-gloss wall plaster, distemper on ceilings.

Fittings

8 classroom softwood cloakroom fittings on metal supports Venetian blinds; 194 sq. yds., 46s. per sq. yd. 61d. 104-ft. run of curtain track; 16s. 7d. per ft. run Ild. Pin-up board; 297 sq. yds., 16s. 2d. per sa. vd. ald. Kitchen servery counter and roller shutters 4d. Worktops and draining boards; 147 ft. run, 17s. 21d. per ft. run 2d. 11 cupboard door fronts Ild. Shelving to kitchen and games stores; 267 ft. run, 5s. 1d. per ft. run Ild. Shelving in classrooms; 250 sq. ft., 15s. 5d. per sq. ft. 3d. Hardwood dado rail in classrooms; 504 ft. run, 12s. 8d. per ft. run 4 ld. Other items, including window shelves old. Builder's work fixing equipment not in contract 2d.

Total of finishes and fittings: 12s 93d

SERVICES

			 	 Block vol.
Sanitary	fittings			10

All fittings white glazed firecla Type	No. of each type
Wash basins	25
Sinks	13
Drinking fountain	I
W.c.s	23
Urinal	I



Section through assembly hall, above, and section through school, looking west [Scale: \(\ph_{\text{s}}^* = 1' \) 0"]

d		8 6
	Waste, soil and overflow pipes	2
	Copper wastes and vent pipes	

Cold water services 1 3½

Galvanised iron and copper tubing. Two 800-gallon storage tanks. Includes builder's work, 2½d.

2 0½

Heating and hot water services 6 3 Gas boiler and 150-gallon indirect cylinder for summer supply of hot water to kitchen; 26,000 B.t.u.s per 2d. Oil-fired boiler supplying warm air units and indirect cylinders; 5s. old. 826,000 B.t.u.s per hour: Fuel for testing: old. 17 heater cabinets and associated cupboards: 10ld. Builder's work: 2d.

21

2 2

1 10

11 31

2 8 Gas services

2 21

Supply to 8 outlets in kitchen. Includes builder's work.

Electrical services

Lighting to 173 outlets:	8d.
Light fittings:	6d.
Power supply to 78 outlets:	6d.
Power supply for hearing installation:	3d.
2 water heaters:	o¾d.
Builder's work:	23d.

Drainage

Separate system with surface water outfalls. Pitch fibre pipes and brick manholes.

Total of services: 12s 11d

External works

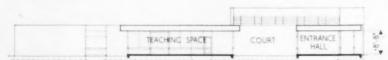
Externiti works	
Playgrounds:	2s. 5½d.
Roads, paths and paved areas:	3s. 2d.
Service connections:	2s. 6d.
Site layout and planting:	2s. 23d.
Fencing and gates:	83d.
Preliminaries, insurances and	
contingencies:	2 ld.

Net cost per sq. ft. of floor area:

£44,968 (net cost excluding all external works)	_	61	11
14,722 sq. ft. (measured inside external walls)	_	01	11

SUMMARY OF COSTS ON MOE BASIS

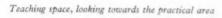
Number of cost places: 320 Floor area in sq. ft.: 14,722





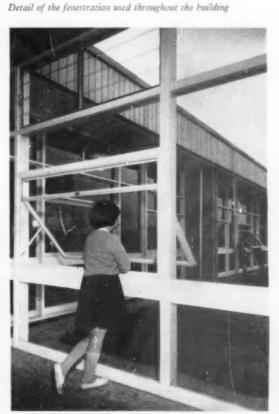


Typical link circulation to a pair of classrooms





Following standard practice in Herts for primary schools, in each classroom the heating, plumbing and teacher's storage are grouped together into one compact unit between the main teaching space and the cloaks practical area



building study-2nd series

Area per place in sq. ft: 46

Net cost (including playgrounds): £46,779 os. od.

Net cost per place: £144 3s. 2½d. Net cost per sq. ft: 63s. 6¾d. Additional costs: £6,509 os. od. Gross cost: £53,288 os. od.

COST COMMENTS

Obviously it is an achievement to have been able to build a school in conventional construction and in the outer fringes of London at an MOE net cost of under 64 shillings a square foot. This would seem to be convincing evidence in favour of the use of some rationalised form of load-bearing construction such as this example for minor projects in the typical local authority programme. This may not, of course, always remain true, if in the future some structural system is specially developed for this type of building, such as a scaled-down CLASP.

Despite this low cost, the analysis reveals quite clearly that the building is in no sense a "cheap" school. The architect has, for instance, had the planning freedom to design a school with an external walling and window to floor area ratio of about 1:03. As another example, he has been able to spend over five shillings per square foot on floor finishes. In general, the analysis compares quite closely with the most recently published schools of a similar structure in this series, the two village schools designed by the MOE development group at Finmere, Oxfordshire, and Great Ponton, Lines. (AJ, 30.6.1960.)

Group of elements	Finmere		Great Ponton		Cheshunt	
	s.	d.	s.	d.	S.	d.
Preliminaries, etc., work						
below ground floor level	8	01	9	03	6	91
Structure	29	2 1	24	41	28	71
Finishes and fittings	15	2	14	91	12	91
Services	13	71	14	51	12	II
Playgrounds	3	10	3	2 3	2	51

Total MOE net cost per

square foot 69 10½ 65 10¼ 63 6¾
The Herts school, because it is a considerably larger building than either of the two MOE examples, costs less in various respects. This is revealed not only in the playgrounds element,

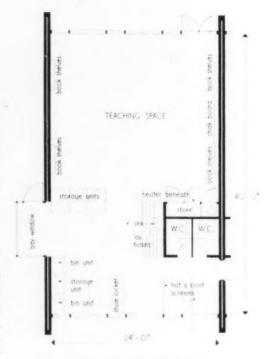
respects. This is revealed not only in the playgrounds element, but also in a considerable saving on sanitary fittings, which cost Iold. in comparison with nearly two shillings for each of the other two schools. Preliminaries and insurances are also smaller.

There is also a difference in finishes, the combined cost of wall finishes and decorations showing a saving of about two shillings, due apparently to the greater use of fairface brickwork internally.

One fact must be borne in mind in studying this analysis, that the school has benefited from the fact that it forms part of a large and continuous programme of building. The fittings, for instance, are largely supplied by bulk purch ase on prices based on competitive tendering. In a slightly different way, to be able to carry out the electrics at 2s. 2½d. per square foot reflects the high level of expertise that has been built up through the years in the county in controlling the cost of this and other service elements.

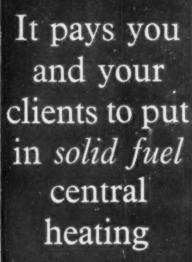
CONTRACTORS

General: Townsend & Collins Ltd. Sub-contractors and suppliers—Hardwood flooring: Viger Bros. Ltd. Heating: C. S. Thompson Ltd. Electrical: H.F. Scrivens Ltd. Venetian



Plan of standard teaching space [Scale: 15" = 1' 0"]

blinds and roller shutters: Tidmarsh & Sons Ltd. Waterproofing compound: National Coal Board. Facing bricks: E. H. Smith (London) Ltd. Bituminous damp-proof course: Ruberoid Co. Ltd. Lead-cored damp-proof course: Engert & Rolfe Lid. Pitch fibre drain pipes: Key Engineering Co. Ltd. Clinker blocks, manhole covers, gullies, connectors: Broad & Co. Ltd. Compressed straw slab: Stramit Board Ltd. Asphalt: Bennett Asphalters Ltd. Quarry tile pavings and skirtings: Wheatley & Co. Ltd. Floors and finished surfaces: Floor Treatments Ltd. Rubber flooring: S. Bennett & Son (Wood Flooring) Ltd. Glue and adhesives: Evode (Industrial Adhesives Division). Ironmongery: James Gibbons Ltd. Flush doors: Jayanbee Joinery Ltd. Insulation panels: Gliksten Building Materials. PVC signs: Compra Plastics Ltd. Ply roof beams: Robert H. Hall & Co. (Kent) Ltd. Ceiling panels: Bowaters Ltd., Cape Asbestos Ltd. Plastic sheets: Bakelite Ltd. Shelf brackets: Savage & Parsons Ltd. Curtain track: Silent Gliss Ltd. Window louvres: N. V. Appleton Pty. Ltd. Metal windows and doors: S. Warner & Son Ltd. Wall tiles: H. & R. Johnson Ltd. Sanitary fittings: Adamsez Ltd. Sanitary waste fittings: Econa Modern Products Ltd. Boiler and valves: Crane Boilers & Radiators Ltd. Oil burner: Nu-Way Heating Plants Ltd. Oil burner controls and thermostats: Rheostatic Co. Ltd. Fan convectors: Copperad Ltd. Heating accelerator: Turner Turbines Ltd. Hot water cylinders: Rother Boiler Co. Ltd. Thermostat mixing valves: Gummers Ltd. Light fittings: F. Lomas Ltd. Electric control panel: Midland Electrical Co. Ltd. Switches and sockets: Crabtree. Clocks: Gents Ltd. Water heaters: Sadia. Glazing putty: Sealanco (St. Helens) Ltd. Paints, varnishes, distempers: Murray & Jones Ltd. Anti-condensation paint: British Lead Mills Ltd. Anti-rugine liquid: Charles Turner & Son Ltd. Bitumen macadam paving: Constable Hart & Co. Ltd. Door stops: Gardiner, Sons & Co. Ltd. Letter-box: G. A. Yorke & Son. Entrance gates: Hills (West Bromwich) Ltd. Concrete flower pots: Walter Lawrence & Son Ltd.





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Compare the costs. These are typical weekly costs, averaged over the year, for centrally heating a three-bedroomed house or bungalow—and hot water summer and winter. Look now much cheaper solid fuel is.

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COKE In independent boiler	10/- per cwt	11/1d	16/8d
SMALL ANTHRACITE In gravity feed boiler	12/6d per cwt	-	14/8d
GAS	1/4d therm plus, say, 2/8d a week standing charge	16/1d	23/6d
ELECTRICITY	1d unit (No standing charge included)	18/2d	29/10d
OIL	1/5½d gallon	*13/-	*23/-

Write for FREE booklet on Central Heating and list of other technical publications to the Coal Utilisation Council, 3 Upper Belgrave Street, London, SW1. Also available 'Central Heating for Houses', a complete 120-page illustrated survey of all the various systems available, from the open-fire-and-backboiler to the small pipe system. Copies 2/6d each.

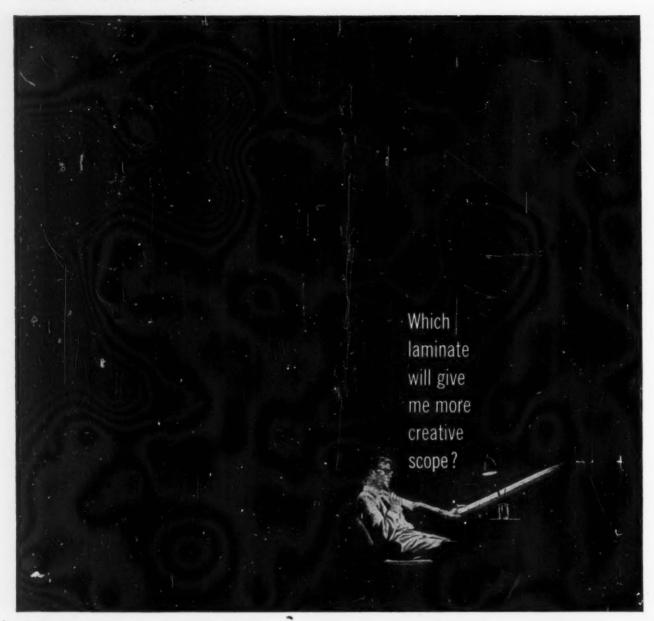
* plus 2/- to 6/- a week maintenance cost.

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adjoining owners

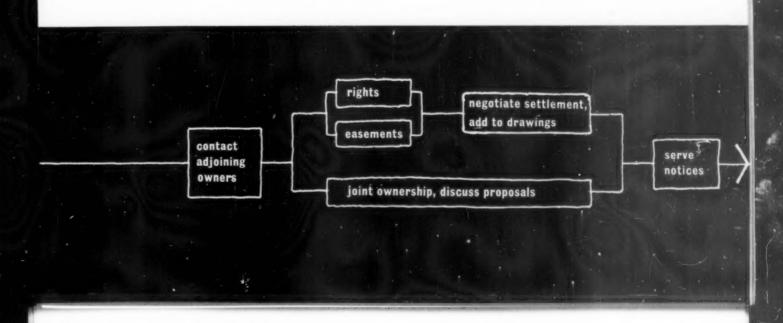
evident what rights or easements an adjoining owner could justifiably claim his own site, each condition must be bilities in each category, and the condito enjoy over your site or building. satisfied by mutual agreement or tions under which notice must be There is a legal obligation to respect settlement at this stage, as oversight served on an adjoining owner or owners. these or otherwise come to terms with the adjoining owner in settlement of Where proposals include works to a them. Consideration must therefore be wall, foundations, or parts of the strucgiven to the effect your building will ture which are jointly owned by the have on the rights of light, air, access, building owner and adjoining owner support, drainage or other essential under the terms of the London Building often settled by discussion or letter services to his building. Enquiries Acts, the precise boundary should be rather than formal notice. As works should be made of your client as to established and the Acts complied must always comply with the regulaany restrictions over the land, but do with in respect of the service of notice tions governing construction related to not rely uncritically on information of intention to carry out the works party structures discuss proposals with given by third parties and, if necessary, according to type of work. insist on written advice from your The London Building Acts set out before serving notices, or settling minor client's solicitor.

Bearing in mind that your client may

From the site analysis it should be have been established by a building carry out works to the structure, the which exists on or previously occupied financial settlement or respective liacan be very expensive to rectify.

specifically by definition the appropriate categories of party or joint ownership, wish to make use of similar rights which the rights enjoyed by each owner to

In any event, inform the adjoining owner of intended works even if notice is not required. Where minor works only are necessary such as insertion of a beam into the wall, these are very the district surveyor or local authority works with adjoining owners.



Contract administration

ITB No.

UDC No. 651:69

party structure notices

18

Works to a party structure require the service of formal notice to the adjoining owners under the terms of the London Building Acts, and drawings showing the proposed work should be prepared to accompany the notices.

The RIBA have formal notices dealing with each of the categories of works to jointly-owned property as follows:—Form A—Party Structures.

B-Party Fence Walls.

C—Intention to build within ten feet and at a lower level than the bottom of the foundations of Adjoining Owner's Building.

D—Intention to build within twenty feet of the Adjoining Owner's independent building and to a depth as defined in Section 50 (1) (b).

E--Party Walls and Party Fence Walls on line of junction of adjoining lands.

F-Walls or Fence Walls on Building

Owner's land with footings and foundations projecting into Adjoining Owner's land

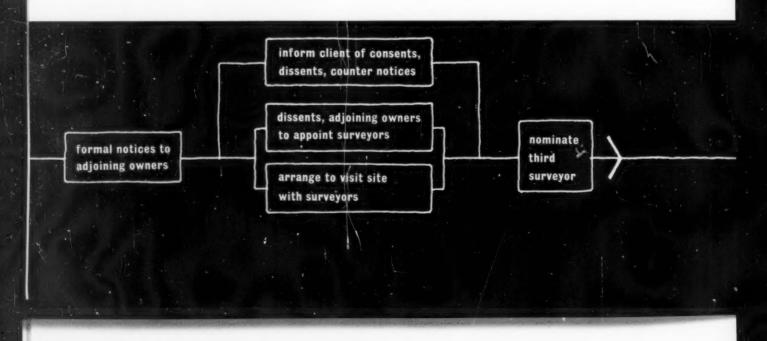
G-Selection of Third Surveyor.

Each form sets out the general terms and conditions of the relative parts of the Act for the information of the person on whom it is served. The sections of the act specifically relating to the works and a description of the works are to be entered on the form to suit the particular case.

Adjoining owners include all those with a lease of more than 12 months and each of these must independently have notice. These should be served in accordance with the Act and allowing the specified time before it is intended to start work—e.g., A Party Structure Notice should allow 2 months before work is to begin. On receipt of notice each adjoining owner has the right to:

- (a) serve a counter notice relating to his own requirements with full descriptions and drawings for which work he must pay. This must be served within the specified time and the building owner must comply unless the works requested are injurious or cause delay or he dissents by not replying within 14 days.
- (b) agree in writing within 14 days from the service of the Party Structure Notice.
- (c) dissent by not writing within 14 days from service of the Party Structure Notice after which a difference is established and he must appoint a surveyor to act for him.

The Party Structure Notice is not effective unless work to which it relates is started within 6 months from date of notice.



party structure settlement

Dissent to a Party Structure Notice is established by an adjoining owner not consenting in writing to the works described in the notice within 14 days. After that time the adjoining owner must 2. Either surveyor must act within 10

- (a) Agree to use the same surveyor as the building owner to settle the difference-known as the Agreed Surveyor.
- (b) Nominate his own surveyor.

Where he nominates his own surveyor the two surveyors must nominate a third surveyor.

The following points are to be borne in mind during negotiations.

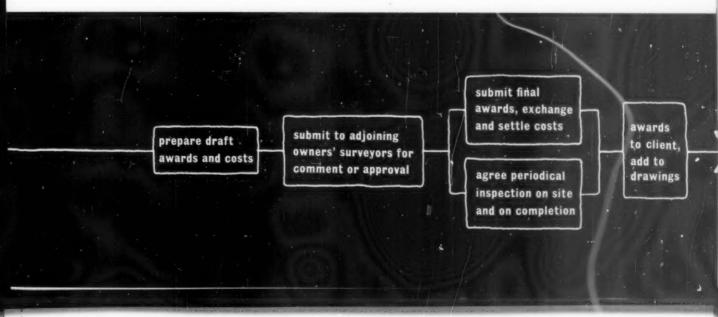
1. The adjoining owner has ten days after written request to appoint his

surveyor. Failure to do so gives the building owner's surveyor the Surveyor.

- days of written request to select a third surveyor or the superintending architect of the Council may act on application from the other surveyor in selecting the third surveyor.
- 3. If a third surveyor does not act within 10 days of written request another third surveyor may be selected by the other two.
- 4. All appointments must be made in
- 5. The Agreed Surveyor, or any two surveyors shall settle by award any

- dispute relative to the party structure notice.
- right to proceed as an Agreed 6. The Third Surveyor makes the award if no two are able to agree within 14 days of a request to do so.
 - 7. The award shall be conclusive and shall include the costs incurred for the works and the award as decided by the surveyor or surveyors.

The draft award of description of work and drawing are prepared by the building owner's surveyor and exchanged with the adjoining owner's surveyor until agreed, after which the final documents are exchanged and each deposited with the respective owners to become part of title. Keep your client



Contract administration

drawings programme

Drawings, from this point forward, are prepared for the sole purpose of con- key or reference general layout drawings veying information to the people and carry only as much general infor- 2. The second stage which should run It is important, therefore, that you base sents. It is in this stage that:survey drawings; that you follow a wellpre-planned system of setting down the information and that the system you ambiguity in interpretation.

In principle the drawings programme should follow a pattern which absorbs c. They absorb from Public Service tion is brought together to form one consultants' and other information at the right stage to avoid constant

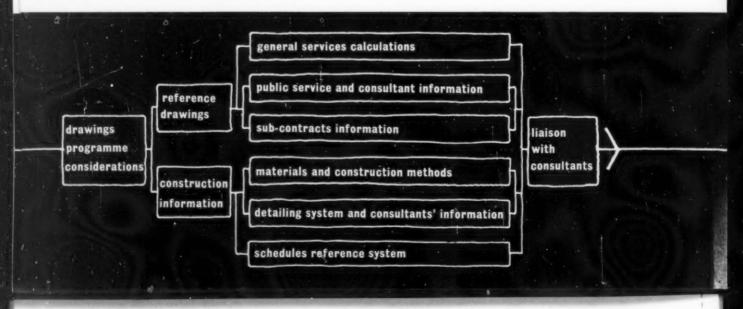
1. The design drawings should be

developed to a stage where they act as

- ventilation and light
- adopt will do everything to avoid b. They are exchanged with engineers tion. You must work in constant and other consultants for layouts of liaison with your consultant on this. respective requirements.
 - ing and suggested new services.
 - with representatives for general

trade enquiries on sub-contract or suppliers' work.

- concerned with erecting the building. mation as is necessary to obtain all con- concurrently with the calculations, discussions and enquiries, is the them upon and relate them to accurate a. Calculations are made for thermal preparation of draft details and schedinsulation, sound transmissions, ules based on the analysis of incoming acoustics and insulation, heating, information and the materials and construction methods under considera-
- 3. The final stage is when all informa-Departments information on exist- comprehensive set of "contract drawings" from which quantities will be repetition and modification. d. They form the basis of discussion taken and the work carried out on site.



(24

STAIRCASES: 59

working detail

STAIRCASE: RESTAURANT NEAR ATHENS

P. A. Sakellarios, E. Vourekas and P. Vasiliades, architects (material supplied by G. Uregian)



This timber staircase with central carriage shows exceedingly careful detailing. Note in particular the attachment of the bronze hooks holding the wire rope balustrading.

oak fillet

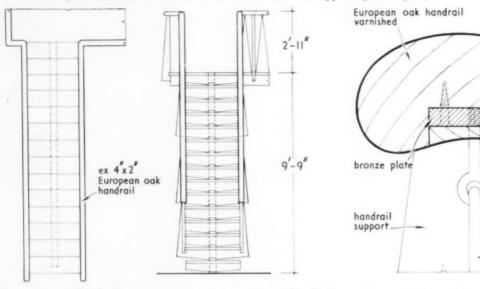
bronze hook screwed to bronze plate

wire rope

working detail

STAIRCASE: RESTAURANT NEAR ATHENS

P. A. Sakellarios, E. Vourekas and P. Vasiliades, architects (material supplied by G. Urégian)

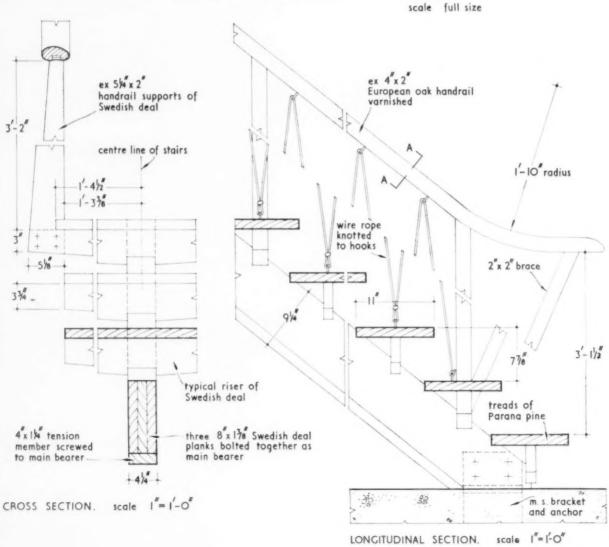


PLAN scale 1/4 = 1'-0"

ELEVATION

scale 1/4" = 1'-0"

SECTION A - A



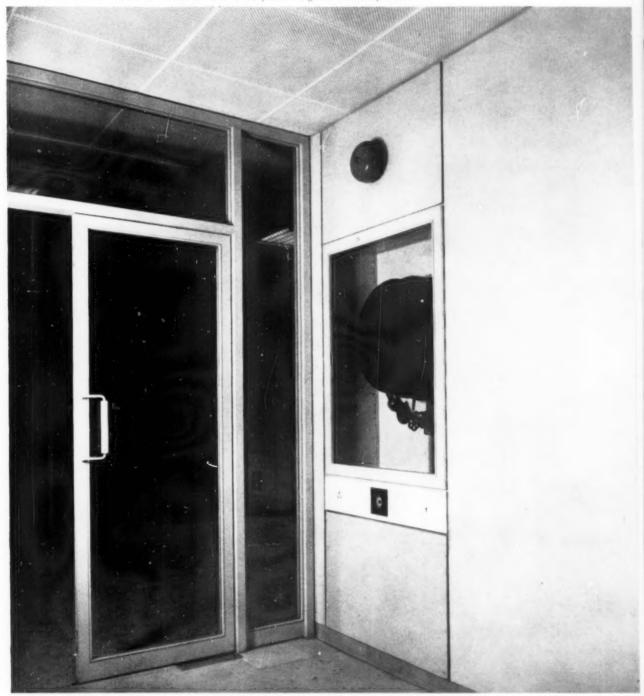
note: figured dimensions in feet and inches are approximate

FURNITURE AND FITTINGS: 107

working detail

HOSE-REEL RECESS: OFFICE BUILDING IN LONDON, W.1

Eero Saarinen and Associates in association with Yorke, Rosenberg and Mardall, architects.

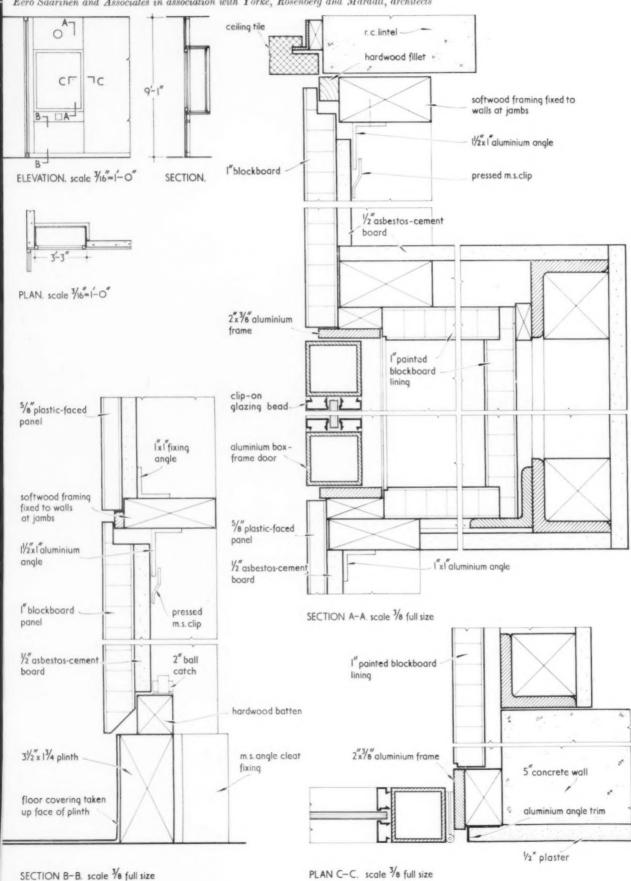


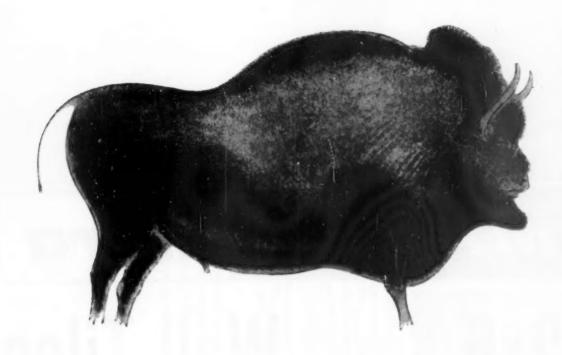
The narrow melamine-faced panel immediately below the aluminium window enclosing the recess contains the fire alarm push button (centre), a socket outlet (left) and a keyhole. The last two are both cut directly into the plastic panel with no cover plate. working detail

FURNITURE AND FITTINGS: 107

HOSE-REEL RECESS: OFFICE BUILDING IN LONDON, W.1

Eero Saarinen and Associates in association with Yorke, Rosenberg and Mardall, architects





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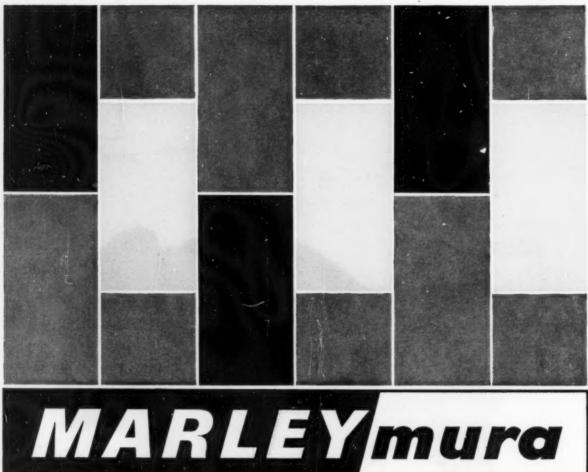
An engraved and painted red and brown Bison probably not less than 20,000 years old. It is to be found in the cave at Font-de-Gaume, Dordogne, France. This and other paintings were most beautifully copied by Abbe Breuil



during the first few years of this century. It is believed that in these decorated caves certain rites were performed by prehistoric man intended to aid him in his hunting.

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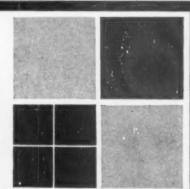


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Announcements

PROFESSIONAL

W. D. Campbell, A.R.I.B.A., and J. E. Arnott, A.R.I.B.A., have formed a joint partnership to be known as Campbell and Arnott. Their office address is Kinloch House, Market Street, Haddington, East Lothian.

Charles E. Pearson, F.R.I.B.A., and George R. Lovell, A.R.I.B.A., in practice as Charles B. Pearson & Son, have taken into partnership Peter P. Lund, Dipl.Arch., A.R.I.B.A., and C. Michael Pearson, B.A., A.R.I.B.A. The practice will continue at 18, Dalton Square, Lancaster, 24, Loxford Street, Manchester 15, and 71, Wimpole Street, London, W.I., under the style of Charles B. Pearson, Son and Partners.

Jack W. Stockings & Clarke, chartered quantity surveyors, have moved their Norwich office to Ferry Road, Riverside Road, Norwich. The telephone numbers, Norwich 28202/3, remain unchanged.

Taylor, Whalley & Spyra, consulting civil engineers, have taken into partnership E. C. Garner, A.M.I.Struct.E., and R. J. Gabrielczyk, A.M.I.Struct.E. Mr. Garner is at 103, Portland Street, Manchester I, and Mr. Gabrielczyk at 24, Harley Street, London, W.I.

William C. McVeigh, A.R.J.B.A., Edwin S. Leighton, A.R.J.B.A., Donald A. Shanks, Dipl.Arch., F.R.J.B.A., Gerald R. Smith, A.R.J.B.A., John Neil, D.A.(Glas.), A.R.J.B.A., and H. A. Patton, D.A.(Edin.), A.R.J.B.A., A.M.T.P.J., have entered into partnership practising under the style of Ulster Architects Partnership at 39, University Road, Belfast 7. (Telephone: 21362.) The above architects will also continue to practise on their own account at their respective offices.

Malcolm C. Clayton, A.I.A.S., A.I.Q.S., is in practice at Brighton and Hove at 71, Church Road, Hove 3, Sussex. (Telephone: Hove 71483.)

John Stirling, Dipl.Arch., A.R.I.B.A., and Michael Sykes, Dipl.Arch., A.R.I.B.A., are in practice at Yorkshire Bank Chambers, Princes Street, Harrogate, Yorkshire, under the style of John Stirling & Partners. They will be pleased to receive trade literature.

Lam, B.el & Partners, architects, have moved to new offices at Union House, 1, Allsop Place, London, N.W.1. The telephone number is still WELbeck 8561-3. They will be pleased to receive trade catalogues at the new address.

TRADE

The head office telephone number of Hickson's Timber Impregnation Co. (G.B.) Ltd. is now Castleford 3841. Home Sales—

William C. McVeigh, A.R.I.B.A., Edwin S. Extension No. 332, Export Sales—Extension Leighton, A.R.I.B.A., Donald A. Shanks, No. 334. Callers are requested to state the Dipl.Arch., F.R.I.B.A., Gerald R. Smith, extension number as this new 9-line A.R.I.B.A., John Neil, D.A.(Glas.), A.R.I.B.A., exchange has 135 extensions.

The office of the group architect, Flowers Breweries Ltd., Luton, Bedfordshire, is engaged in reorganising its information library into the SfB classifications and would be pleased to receive trade literature to A.4 size only.

Preservation Developments Ltd., have moved to Victory House (Fifth Floor), 99/101, Regent Street, London, W.1. (Telephone: REGent 3031.)

The technical design staff of Bernard Sunley & Sons Limited is now operating from Sunley Works, Maylands Avenue, Hemel Hempstead. Trade literature would be welcome.

CRICKET

The following are the fixtures of the Vitruvians (Technical Press) XI:

Wednesday, May 10 v. RIBA, Elstree (2 p.m.).

Wednesday, May 17 v. AA, Elstree (2 p.m.). Thursday, June 8 v. NFBTE XI, Ealing (11.30 a.m.).

Wednesday, June 21 v. RICS, Ealing (11.30 a.m.).







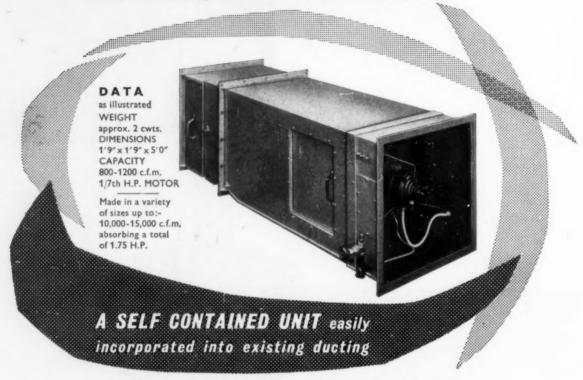
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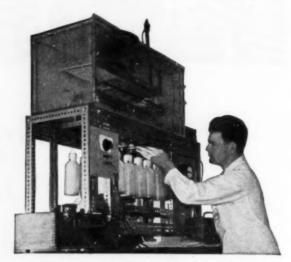
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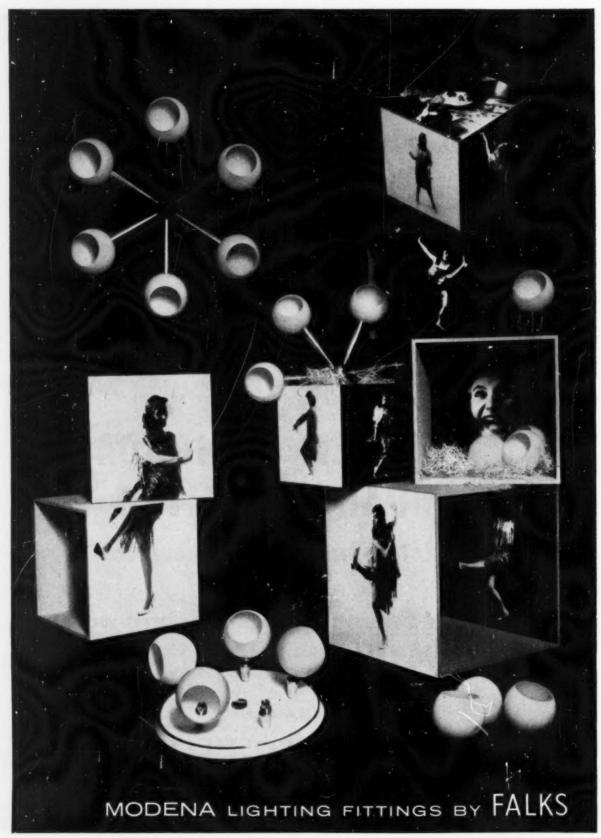
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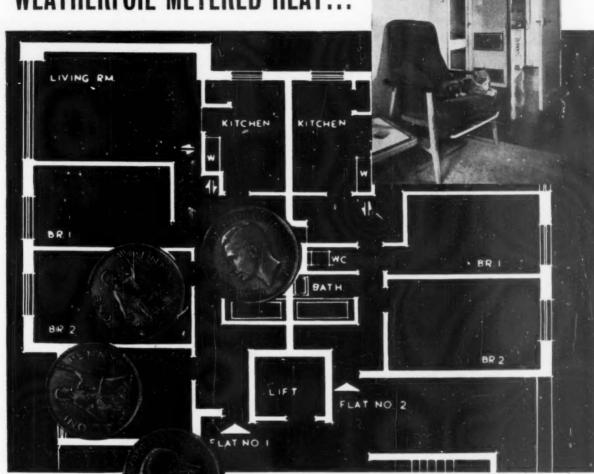
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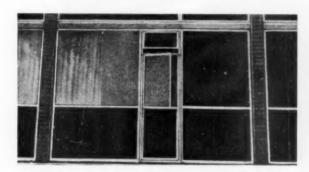
at Europe's largest air hotel



This view of the bedroom block and escape staircase illustrates the contrasting blue and white colour scheme chosen for Skyway. The blue Plyglass infilling panels are backed by Thermalite insulation blocks. With quarter inch glass throughout the building, this effectively reduces airport noise to a minimum.

With years of experience in catering for the traveller, Skyway Hotels Ltd. had no doubt about the way they wanted to build at London Airport. A room for the night or a few hours, breakfast at mid-day, or a banquet at short notice for a party delayed by fog—these are a few of the things today's air passengers may need. And, of course, the right atmosphere must be part of the service. Williams & Williams purpose made steel windows were specified throughout this contract. Amongst

its requirements the brief called for maximum sound insulation and a creative use of exterior colour. In addition, the installation had to keep pace with an eight months building schedule. Skyway was handed over three weeks ahead of time—and has proved to be just what the traveller wanted. A new bedroom wing, commissioned soon after the hotel opened, has just been completed. Once again Williams & Williams purpose-made windows were used throughout.



For bedrooms at ground level a stall door was specially designed to give direct access to a car park outside. The clean, simple lines of the general design are preserved by installing the opening window and ventilator light in the upper half of the door.

Architects: Fitzroy Robinson & Partners.
Contractors: Bernard Sunley & Sons Ltd.



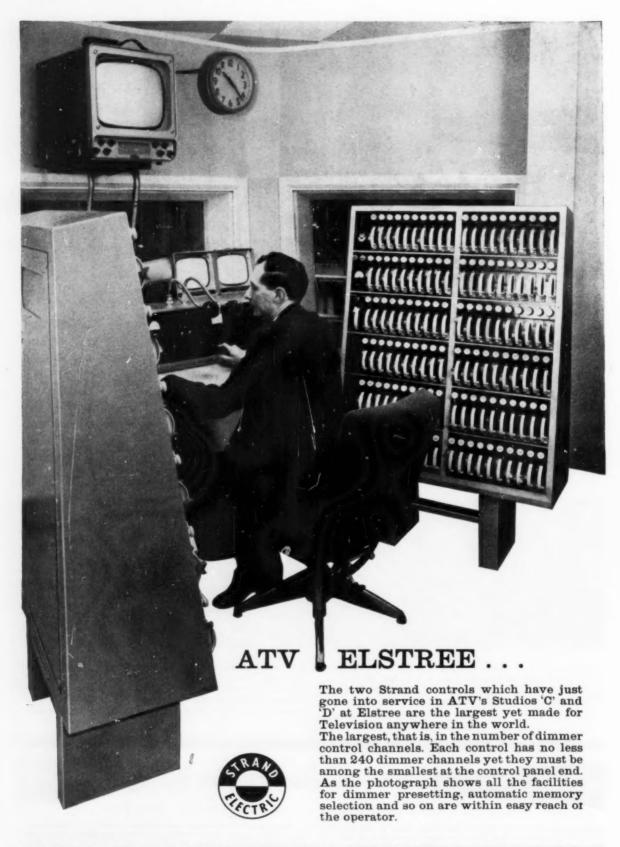
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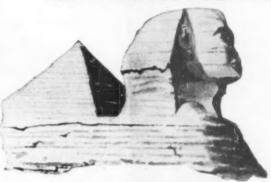
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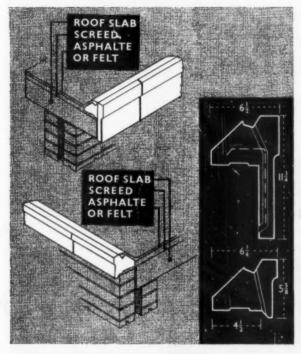


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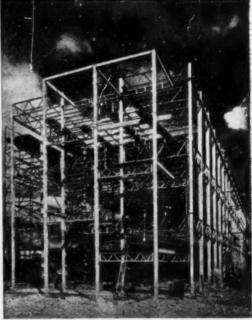
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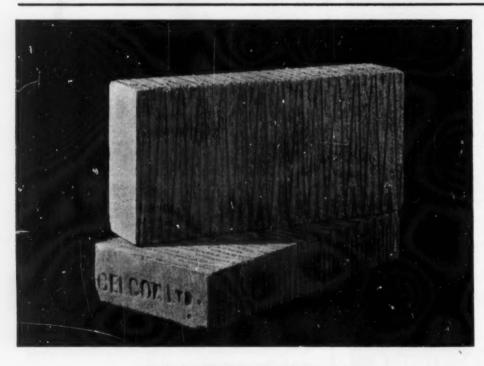


Part of a new Office Block for The Bowater Paper Corporation Limited.

Architects: Messrs, Farmer and Dark

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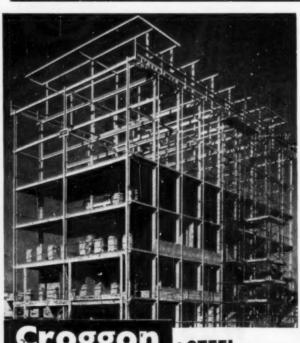
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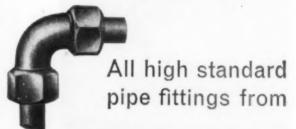
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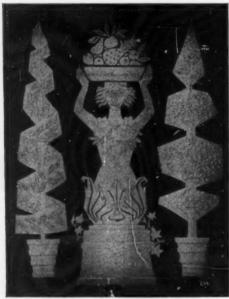


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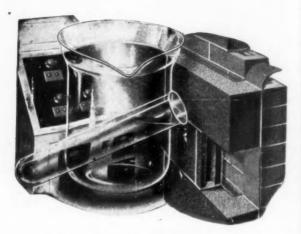
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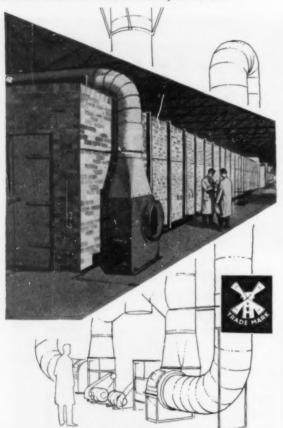
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ARCHITECTURAL ASSISTANTS. Salary £625—
£900. Qualification: Intermediate R.I.B.A. or

—e900. Qualification: Intermediate R.I.B.A. or exemption.
ARCHITECTURAL DRAUGHTSMEN. Salary £475—4585. Candidates should have had three years' experience in architectural drawing.
Commencing salaries may be fixed above minimum on account of experience.
The work offers excellent opportunity for gaining experience in whole field of hospital architecture, ranging from adaptation schemes to new major development projects, including all types of medical ancillary departments and domestic buildings. Applications stating age, qualifications, experience and details of present position with names of three referees to Secretary of Board, 117 Chesterton Road, Cambridge, by 8th May, 1961.

OXFORDSHIRE COUNTY COUNCIL COUNTY ARCHITECT'S DEPARTMENT 1. ASSISTANT ARCHITECT'S, A.P.T. V (£1,310-£1,480) (starting salary according to experi-

ence). 2. ASSISTANT ARCHITECTS, A.P.T. IV (£1,140 –£1,310) (starting salary according to ex--£1,310) perience).

Applications are invited from Qualified Architects to work on an interesting and varied build tects to work on an interesting ing programme.

The appointments are superannuable and subject to medical examination.

Applications on forms to be obtained from the undersigned to be returned by the 3th May, 1961.

ALBERT E. SMITH.

County Architect.

Park End Street Offices. Oxford.

SURREY COUNTY COUNCIL
Applications invited for appointment of ASSISTANT ARCHITECTS on Grade V (£1,310-21.480
p.a. plus £45 p.a. London Allowance). Must be
A.B.I.B.A and capable of leading a small team
dealing with medium and large-scale contracts.
Candidates will be appointed at the appropriate
point within the scale according to age and
ability.

ability.

Approved removal expenses will be paid to successful candidates.
Full details, present salary and three copy festimonials, preferably one from present employer, to County Architect, County Hall.
Kingston, as soon as possible.

Tobas Surrey County Council
Applications invited for following appointments:—

Applications invited ments:

1. Salary range £960-£1.310 p.a. plus £45 p.a. London Allowance. Successful candidates will be paid according to age and experience and will receive approved removal expenses. Applicants should state salary they expect to receive. ARCHITECTS. Must be A.R.I.B.A. and have had experience in preparation of drawings and specifications, and be capable of assuming responsibility for medium to large-scale contracts.

tracks.

trackDE II (£815—£960 p.a. plus up to £40 p.a. London Allowance).

ARCHITECTURAL ASSISTANTS. Must be of good oreneral training, preference given those who have passed Inter. B.I.B.A. Candidates will be appointed at the appropriate point within the scale according to age and ability.

point within the scale according to age and ability.

Full details, present salary and three copy testimonials, preferably one from present employer, to County Architect, County Hall, Kingston, as soon as possible.

HAMPSTEAD BOROUGH COUNCIL Require in the Housing Architect's Department TWO QUALIFIED ASSISTANT ARCHITECTS for new development including multi-storey blocks of flate. Salary A.P.T. Grade IV (21,46-21,35) basic) plus 245 London Weighting. Group system of working. Advances for house purchase up to 100 per cent. of valuation will be considered in suitable cases. Applications with names of two referces to Town Clerk, Town Hall, N.W.3. by 5th May, 1961.

FLINTSHIRE COUNTY COUNCIL
COUNTY ARCHITECTS DEPARTMENT
Applications are invited for the post of CHIEF
ASSISTANT ARCHITECT within Grade A.P.T. V
(£1,310-£1,480), plus an allowance as an essential
car user. Candidates must be Associates of the
R.I.B.A. with a minimum of four years practical experience in the design of public buildings
of all classes, and in the handling of contracts
and technical administration. Further particulars
and form of application obtainable from the
Clerk of the County Council, County Buildings
(P.O. Box No. 1), Mold. Closing date 8th May,
1961.

COUNTY BOROUGH OF SOUTHEND-ON-SEA EDUCATION COMMITTEE MUNICIPAL COLLEGE Principal: T. L. MORGAN, M.SC., A.M.I.C.S., Applications are invited for the following post: STUDIO MASTER (Assistant Grade B) in the School of Architecture. Duties to commence 1st september, 1961. Teaching experience is desirable but not essential. Salary Scale: £700 × £27 10s.—Further particulars.

El.150.

Further particulars and forms of application may be obtained from the undersigned on receipt of a stamped addressed foolscap envelope.

Completed forms should be returned to the Principal, Municipal College, Victoria Circus, Southend-on-Sea, within 14 days of the appearance of this advertisement.

Southend-on-Sea, wise-of this advertisement.

D. B. BARTLETT.

Chief Education Officer Education Office Warrior Square, Southend-on-Sea.

Southendon-Sea.

EOROUGH OF LEYTON

Applications invited for appointment to established post of SENIOR PLANNING ASSISTANT in Borough Engineer's Department, Salary within Grade A.P.T. III of National Joint Council's Scheme, viz. 2960/£1,40 per annun, plus London weighting. Housing accommodation will be made available to successful applicant and the appointment carries an "Essential User" Car Allowance for vehicle not exceeding 10 h.p. or 1,199 c.c.

N.J.C. Conditions of Service. Five-day week. Staff Canteen available.

Apply by letter with details of age, experience and names, etc.. of two referees, to reach the Borough Engineer, Town Hall, Leyton, E.10, not later than 5th May, 1961.

D. J. OSBORNE,

D. J. OSBORNE. Town Clerk

Town Hall, Leyton, E.10.

COUNTY BOROUGH OF WOLVERHAMPTON
BOROUGH ENGINEER'S DEPARTMENT
Applications are invited for the following
Architectural appointments:—
(a) PRINCIPAL ASSISTANT ARCHITECTS
(2). Salary Grade A.P.T. V (£1,310-£1,480).
(b) ASSISTANT ARCHITECTS—several vacancies at salaries within the range A.P.T. I
to IV (£645-£1,310) according to qualifications and experience.
Appointments subject to National School

cies at salaries with according to qualifications and experience.

Appointments subject to National Scheme of Conditions of Service, Local Government Officers Superannuation Acts, and medical examination. Housing accommodation and car allowances may be made available in respect of (a) and certain A.P.T. IV posts, and the successful (married) candidates will be paid removal expenses. Five-day week.

Applications, with the names and addresses of two referees, should be sent to the Borough Engineer, Town Hall, Wolverhampton, by Wednesday, 10th May, 1961.

HOLLAND COUNTY COUNCIL (Lincolnshire) wife applications for the following appoint

vivie applications for the ionocase, vents:

(a) SENIOR ASSISTANT ARCHITECT, Grade A.P.T. IV, £1.140 to £1.310 per annum,

(b) ARCHITECTURAL ASSISTANT, Grade A.P.T. III, £960 to £1.140 per annum,

(c) SENIOR ASSISTANT OUANTITY SURVEYOR, Grade A.P.T. IV, £1.140 to £1.310 per annum,

der annum.

(d) QUANTITY SURVEYING ASSISTANT,
Grade A.P.T. II (2815 to 2960 per annum.

(e) JUNIOR QUANTITY SURVEYING ASSISTANT, Grade A.P.T. I, 2646 to 2815 per

annum.
(f) HEATING AND VENTILATING
ENGINEERING ASSISTANT, Grade A.P.T.
II. 6815 to 5960 per annum.
The N.J.C. Scheme of Conditions of Service,
the provisions of the Local Government Superannuation Acts, and a medical examination will

annuation Acts, and apply.

The County Council would be prepared to make a contribution towards the cost of removals.

Forus, obtainable from the County Architect, should be returned to the Clerk of the County Council, County Hall, Boston, Lines., by 12th

Council. County
May. 1961.

BOROUGH OF FALING
ARCHITECTURAL ASSISTATY within scale
A.P.T. IV. according to experience (£1.185-£1.355
inclusive). Must have recognised architectural
qualibrations.
APCHITECTURAL ASSISTANT.
A.P.T. I (£645-£815) plus London weighting.
Full na-ficulars and forms of application from
Borough Engineer, Town Hall. Raling, W.5.

Borough Engineer, Town Hall. Raling, W.5.
Town Clerk.

Town Clerk.

COUNTY BOROUGH OF WIGAN BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT Applications are invited for the appointment of PRINCIPAL ARCHITECTURAL ASSISTANTS, on the established staff of the Borough Engineer and Surveyor, at a salary in accordance with Grade A.P.T. IV/V (£1,140-£1,480). There is an interesting and varied programme of work in the Department. Housing accommodation can be offered for the successful married applicants. The point of entry to the salary Grade will be determined by qualifications and experience. Applications, giving name, address, age, present appointment and salary, previous appointments, and also the names of two persons to whom reference may be made, should be sent to the Borough Engineer and Surveyor, Municipal Buildings, Wigan, to be received by him by no later than 15th May, 1961.

ALLAN ROYLE.

Manicipal Buildings,

Manicipal Buildings,

Wigan.

Wigan.

War Office require CIVIL ENGINEER of MAINTENANCE SURVEYOR (basic grade) at Royal Ordnance Factory, Bishopton, near Glasgow, Duties: Control, under Main Grade Officer, section of engineering department concerned with provision and maintenance of industrial buildings housing chemical plant. Preparation of estimates, bills of quantities, specifications and supervision of direct and contract labour. Quals, and Exp.: Should be corporate members of the Institution of Civil Engineers of R.I.C.S. or have passed examinations necessary for attaining such membership. Knowledge of danger building regulations and construction as applications and construction as application of Civil Engineers of R.I.C.S. of have passed examinations necessary for attaining such membership. Knowledge of danger building regulations and construction as applications are proportional contraction as applications and construction as applications and construction as applications. Survey. Closing date 13th May, 1961.

BOROUGH OF STOCKTON-ON-TEES BOROUGH ARCHITECT'S DEPARTMENT Applications are invited for the following appointments:

1. ASSISTANT QUANTITY SURVEYOR—Salary A.P.T. II (£815—£960).

2. ASSISTANT QUANTITY SURVEYOR—Salary A.P.T. II (£815—£960).

4. ASSISTANT GUANTITY SURVEYOR—Salary A.P.T. II (£815—£960).

4. ASSISTANT GUANTITY SURVEYOR—Salary A.P.T. II (£815—£960).

4. ASSISTANT GUANTITY SURVEYOR—Salary A.P.T. II (£815—£960).

5. ASSISTANT GUANTITY SURVEYOR—Salary A.P.T. II (£815—£960).

5. ASSISTANT GUANTITY SURVEYOR

Municipal Buildings Stockton-on-Tees.

Stockton-on-Tees.

Stockton-on-Tees.

The New York of the County Council Planning Department of the above department which has an interesting and varied orogramme of work. The successful applicant will have the opportunity to practice with Town Planning and Architecture. This programme includes Redevelopment Schemes Old People's Homes, Clinics a County Library, Branch Libraries and Offices

Applicants must be Associates of the Royal Institute of British Architects and preference will be given to candidates who are also Associate Members of the Town Planning. The successful candidate will be required to live in or near Downpatrick, The appointment will be subject to the County Council's conditions of service and to the provisions of the Local Government (Superannation). Act (N.1.), 1950.

Preference will be given to Ex-Service candidates than a conditions of the Local Government (Superannation). Act (N.1.), 1950.

Preference will be given to Ex-Service candidates than a conditions of the Local Government (Superannation). Applications giving details of training qualifications giving details of training qualificant conditions givin

tions.
Applications giving details of training, qualifications and experience, together with three testimonials (or the names of three nersons to whom reference may be made) should reach the undersigned not later than Tuesday 16th May, 1961.
A five-day week is in operation.
J. H. WARVEY.
Secretarn to the County Council.
Courthouse, Downpatrick.
20th April, 1961.

20th Auril. 1961.

7213

BOROUGH OF BRENTFORD AND CHISWICK APPOINTMENT OF ARCHITECTURAL ASSISTANT
Applications are invited for the above appointment at a salary in accordance with Grade A.P.T. II. 2815 to 2960 plus London weighting allowance, commencing salary dependent upon experience. The post offers excellent opportunities for gaining architectural training and practical experience. Application forms returnable within two weeks after this advertisement appears, may be obtained from Borough Engineer & Surveyor. & Surveyor

W. F. J. CHURCH

Town Hall. Chiswick, W.4.

BOROUGH OF ROYAL TUNBRIDGE WELLS
ARCHITECTURAL ASSISTANT
Applications are invited for the appointment of
Architectural Assistant at a salary in accordance
with Grade A.P.T. II (£2815/£960 p.a.).
The applicants must be good draughtsmen of
R.I.R.A. Intermediate examination standard.
The appointment will be subject to the provisions of the Local Government Superannuation
Acts, the National Scheme of Conditions of
Service and the passing of a medical examination.
Housing accommodation will be provided if
requested.
Applications, giving details of experience and
qualifications, together with the names and
addresses of two persons to whom reference may
be made, are to be submitted to the Borough
Surveyor & Waterworks Engineer, not later than
noon on Monday, 8th May, 1961.
M. J. H. GIRLING.
Town Clerk.

HEMEL HEMPSTEAD BOROUGH COUNCIL
SENIOR ARCHITECTURAL ASSISTANT
A.P.T. GRADE IV. (21,140—21,310)
Applications are invited for the appointment of a Senior Architectural Assistant in the Borough Engineer's Department from candidates possessing the Final of the Royal Institute of British Architects or similar qualification. Salary within Grade IV (£1,140—21,310) of the National Joint Council's Scales.
Housing accommodation will be made available to the successful applicant. The appointment will be subject to the Local Government Superannuation Acts, to the National Conditions of Service from time to time in force, and to the passing of a medical examination and will be terminable by one month's notice in writing on either side. Applications stating age, education, qualifications and experience, together with the names of two referees, should be sent to A. H. Turner, A.M.I.C.E., Borough Engineer, High Street, Hemel Hemostead, Herts, not later than Monday, 15th May, 1961.
Canvassing will disqualify, and applicants must state whether to their knowledge they are related to any member or senior officer of the Council.

C. W. G. T. KIRK.

Town Hall,

Hemel Hempstead, Herts.

Town Hall, Hemel Hempstead, Herts. 20th April, 1961.

SOUTH WEST METROPOLITAN REGIONAL HOSPITAL BOARD

ASSISTANT REGIONAL ARCHITECT
An Architect of outstanding ability is required to assist the planning team implementing the Board's building programme. His duties will

be:

(1) To assist in the formulation and establishment
of consistent design standards of a high order.

(2) To realise major hospital development plans
which can incorporate the evolving medical
nattern. This necessitates sustained research
and the design and promotion of pilot

nattern. This is and promotion and the design and promotion schemes.

The work embraces a wide range of recreational therapeutic and residential buildings besides hospitals.

Anolicants must be Associates of the Royal Institute of British Architects. Hospital experience is desirable but not essential.

Salary: £1.875 rising to £2.225 p.a.

Applications including are, salary, present and previous appointments and the names of three referees should be addressed to the undersigned at the Board's Hes-douarters at 49. Fastbourne Torrice. London W 2 and should be received by not later than 6th May.

E. G. BRAITHWAITE

Secretary. 7209

ATR MINISTRY require SENIOR TAKERS OFF in Quantities Division, London, Must have wide experience of all classes of work and preferably be A.R.I.C.S. (Sub-Division III Quantities), Salaries (inner London scale) from £1,448 to £2.015. Commencing salary A.Q.E. Nonneusionable but long term with prospects of establishment and/or romotion. Five-day week. 22 days naid leave. Applicants must be natural born British subjects. Forms from Ministry of Labour, Technical and Scientific Register (K), 26. King Street, London, S.W.1. Quoting J.340/OA.

26. King Street, London, S.W.I. Quoting 1.340/OA.

WARWICKSHIRE COUNTY COUNCIL ARCHITECT'S DEPARTMENT ASSISTANT ARCHITECTS

Recently qualified Architects are required for appointment on Grade A.P.T. III-IV (£960—£1.310). The persons appointed will work in groups on large projects and an opportunity will be given to men with enthusiasm and ability to design and carry out projects under a group artificity.

The commencing salary can be within the grade according to ability and experience. Fiveday week worked. The Council have schemes for the nawment of removal expenses and a lodging allowance to married officers. Application forms and full conditions applicable to the appointment can be obtained from Fric Davies. Fr I.P.A. A.M.T.P.L. County Architect. Shire Hall. Warwick

GLOUCESTERSHIRE COUNTY COUNCIL COUNTY ARCHITECT'S DEPARTMENT Applications are invited for the followin ppointments:—

olications intments:-ASSISTANT ARCHITECTS -ASSISTANT ARCHITECTS — CAREEK CLASS, commencing in A.P.T. IV (£1,40— £1,310 p.a.) progressing to A.P.T. V (£1,310— £1,480 p.a.) subject to satisfactory report on reaching appropriate incremental point in Grade. Applicants must be Registered Architects and Associate Members of the

Architects and Associate Members of the R.I.B.A (b) A RC I T E C T U R A L ASSISTANTS—"QUALIFYING CLASS." Vacancies exist in the following Grades:—A.P.T. II: Salary £645—£315 p.a. A.P.T. III: Salary £645—£316 p.a. A.P.T. III: Salary £646—£1,140 p.a. A.P.T. IV: Salary £1,140—£1,310 p.a. A.P. IIII: Salary £1,500—£1,140 p.a. A.P. IIII and III and IV the full R.I.B.A. Final Examination.
N.J.C. Conditions of Service; superannuation; medical examination.

N.J.C. Conditions of Service; superannuation; medical examination.
Applications, stating age, present position and salary, details of previous appointments, together with the names and addresses of two persons for reference, must reach the County Architect, Shire Hall, Gloucester, by 13th May, 1961.

Clerk of the County Council.

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BOROUGH OF FINCHLEY HOUSING DEPARTMENT

TEMPORARY ARCHITECTURAL ASSISTANT Salary within Grades A.P.T. III/IV (£960-£1,310 p.a.) for a Qualified Architect. London weighting additional.

additional.

Subject to satisfactory service, anticipated duration of the post will be approximately one

Year.
Candidates must have had at least five years' practical office experience.
The National Scheme of Conditions of Service and the Local Government Superannuation Acts apply and medical examination required.
Applications, stating age and full particulars of qualifications and experience, with the names of two referees, to the Borough Housing Officer, The Avenue, Finchley, N.S., by first post on May 9th, 1961.

R. M. FRANKLIN. Town Clerk.

Municipal Offices.

CITY OF CHICHESTER ARCHITECTURAL ASSISTANT

ARCHITECTURAL ASSISTANT
Applications are invited for the above appointment at a salary in accordance with A.P.T. Grade
II (£815-£960).
The person appointed should have a good
knowledge of building construction, design and
draughtsmanship.
The appointment will be in accordance with
the National Conditions of Service and terminable by one month's notice on either side.
Housing accommodation will be provided, if
required.

Housing accommodation will be provided, if required.
Applications, stating age, education, qualifications, training and experience, present and previous appointments, together with the names of two referees, should reach the City Surveyor, Greyfriars, North Street, Chichester, by 11th May, 1961.

ERIC BANKS.

Greyfriars, North Street, Chichester

KINGSTON UPON HULL EDUCATION
COMMITTEE
Appointment of Resident Engineer for the
erection of the David Lister High School,
Kingston upon Hull
Applications are invited from suitably qualified
men for the post of RESIDENT ENGINEER for
the crection of the David Lister High School,
Kingston upon Hull. This new comprehensive
school, which will provide accommodation for
1,440 pupils and is estimated to cost about
£517,000, is being designed by Messrs. Lyons,
Israel and Ellis, Chartered Architects of London,
with Messrs. F. J. Samuely & Partners, of
London, as Consulting Engineers. The commoneting salary will be at the rate of £1,100 per
annum and a site allowance of £150 per annum
for a single man or of £200-£250 per annum
for a married man depending on the particular circumstances, will be payable to a successful
candidate living away from home. The appointment is for a period of about two and a half
years commencing in about July, 1961.
Application form and further particulars may
be obtained from the undersipned to whom completed forms should be returned not later than
the 20th May, 1951.

S. W. HOBSON.

Guildhall.
Kingston upon Hull.

COUNTY BOROUGH OF SOUTHAMPTON BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT Applications are invited for the following

Applications are invited for the following appointment:

ASSISTANT ARCHITECT, Grade A.P.T. V (£1,310/£1,480), for duties in connection with an extensive and varied programme of housing development including multi-storey flats. Applicants must hold the qualification A.R.I.B.A. with wide experience in the design and administration of major building works.

The appointment is subject to N.J.C. conditions of service.

Housing accommodation available in approved cases and approved removal expenses reimbursable up to a maximum of £50.

Apply on application forms obtainable from the Borough Engineer and Surveyor, Civic Centre, Southampton, returnable by Monday, 8th May, 1961.

BOROLIGH OF EDMONTON

Borough Engineer

Southampton, returnable by Monday, 8th May, 1961.

BOROUGH OF EDMONTON

BOROUGH ARCHITECT'S DEPARTMENT

The under-mentioned staff are required for the Borough Architect's Department of a progressive Borough, Programme of works includes multi-storey flats, Town Centre redevelopment, industrial buildings and offices. The Council are prepared to grant loans up to 100 per cent, of valuation to facilitate house purc.ase.

(a) SENIOR ASSISTANT ARCHITECT—Grade A.P.T. IV—C1.85 to C1.355 inclusive of London weighting.

(b) ASSISTANT GUNTITY SURVEYOR—Grade A.P.T. III—£1,005 to £1,185 inclusive London weighting.

Commencing salaries will be in accordance with qualifications and experience.

Applications on forms obtainable from the Town Clerk, Town Hall, Edmonton, N.9, to be delivered by the 6th May, 1961.

ES/EM. 13.4.61.

GLENROTHES DEVELOPMENT
CORPORATION
ARCHITECT (A.R.I.B.A.) required for a
variety of work including Housing Industrial,
Shopping and Commercial Building.
The vacancy offers an excellent opportunity to
an Architect with imagination and enthusiasm.
Salary up to 1.480 per annum according to

experience.
House to rent available.
Applications to Secretary and Legal Adviser,
Glenrothes Development Corporation, Glenrothes,
Pife, by 1st May, 1961.

COSTAIN

Architectural Draughtsman

required to work in our London office on housing schemes and commercial buildings to be developed in the Middle East and Mediterranean areas. Applicants should have had at least five years previous experience in an Architectural Drawing office. Opportunity for overseas service at a later date if desired.

Please write or telephone (WATerloo 4977) to

PERSONNEL MANAGER, RICHARD COSTAIN LTD.

111 WESTMINSTER BRIDGE ROAD, S.E.I.

For further details write airect to the Chief Architect, selling him all about yourself: H. STANLEY SMITH, A.R.I.B.A

ARCHITECTS

Borough of Tottenham - Middlesex - Population 116,000

Applications are invited from architects who wish to be engaged on extensive schemes of urban renewal including layouts for housing estates and shopping precincts, the design and construction of multi-storey flats and other domestic buildings, public buildings and school work.

(a) Senior Assistant Architect:

APT. Grade V-£1,310 to £1,480 per annum.

- (b) Senior Assistant Architects:—two posts vacant APT. Grade IV—£1,140 to £1,310 per annum.
- (c) Assistant Architect:

APT. Grade III/IV-£960 to £1,310 per annum.

- (d) Architectural Assistants:-two posts vacant. APT. Grade II-£815 to £960 per annum.
- (e) Architectural Draughtsman:

APT. Grade I-£645 to £815 per annum.

All appointments will be to the established staff and London Weighting (£15 to £45) is payable in addition and commencing salaries will be according to experience and ability.

Applicants for posts-

- (a), (b) and (c) must hold a final professional qualification;
- (d) must have passed R.I.B.A. Intermediate Examination or equivalent:
- (e) should have had good drawing office experience.

Five-day week; part removal expenses reimbursed; staff restaurant facilities.

Application Form, obtainable from the Borough Engineer and Surveyor (AJ), Town Hall, N.15, should be returned to him not later than 10th May, 1961.

ARCHITECTURAL STAFF

SENIOR AND INTERMEDIATE ASSISTANTS AND DRAUGHTSMEN

required by

F. W. WOOLWORTH & CO. LTD.

Five day week. Pension scheme. Dining facilities.

Modern office building. Good salaries according
to experience and qualifications. Apply giving
details of salary required, age and experience to:—

District Architect.

F. W. Woolworth & Co. Ltd.

1264 London Road, Norbury, S.W.16

LAING

LAING DEVELOPMENT COMPANY LIMITED

requires

ARCHITECTS

who are

Skilled in design, for work involving redevelopment of city centres

also

PERSPECTIVE ARTIST

Apply, giving brief details, to Group Personnel Manager (TH.1) John Laing and Son Limited, London, N.W.7

WIMPEY

SENIOR ASSISTANT

required for COLOUR DESIGN SECTION in Architect's Department.

Applicants should be experienced in Interior Design and Exhibition Display work and have a knowledge of building construction. Permanent appointment, with good scope for the right man.

Five day week; three weeks' annual holiday; Pension Fund.

Applicants should write, giving brief particulars, to:

Chief Architect, GEORGE WIMPEY & CO. LTD., 27 Hammersmith Grove, London, W.6.

ARCHITECTS

An established partnership of school trained assistants with considerable office experience, who have handled a variety of projects for Architects—ranging from small flat development to half-million-pound store—over the past five years, offer their assistance in design and preparation of working drawings, schedules and details. From experience we know that Architects are unwilling to let their work be handled outside their own office—however, the assumed difficulties that could arise can be easily overcome by regular visits. If you would like to have particulars of our service, please write to Box No. 7134.

BRECONSHIRE COUNTY COUNCIL
Applications are invited for the following posts in the Planning Department:—
(1) NATIONAL PARK ASSISTANT, A.P.T. Grade II (£815—£960). This is a new post, mainly for work in the Brecon Beacons National Park, though the person appointed may be required to do work of a similar nature outside the Park. The post offers scope for a man with initiative and appreciation of the countryside. Candidates should possess a qualification or have had considerable experience in landscape architecture and forestry. Work will be required in the sphere of public relations and will involve organisation of the Authority's National Park Exhibitions. A Land-Rover will be provided.
(2) PLANNING ASSISTANT, A.P.T. Grade II (£815—£960). Principal duties will be preparation of Town Maps, review of the County Development Plan and general statistical and research work. Applicants should have passed the Intermediate Examination of the T.P.I. or have a university degree in an appropriate subject or have extensive experience of this type of work.

Both posts will be subject to the National Scheme of Conditions of Service, the Local Government Superannuation and one month's written notice on either side.

Candidates must state whether to their knowledge they are related to any member or senior officer of the Council.

Further particulars and application forms from County Planning Officer, 6, Glamorgan Street. Brecon, and completed applications to be refurned to the undersigned not later than 23rd May, 1961.

C. M. S. WELLS. Clerk of the County Council.

County Hall. Brecon.

Brecon.

ROYAL BURGH OF DUMFRIES
DEPUTE BURGH ARCHITECT
Applications are invited from qualified Architects, preferably with experience in Redevelopment Work.
The appointment, within the Salary Scale E1,280 E1,430 (by three increments of £50), will be subject to the Town Council's Superannuation Scheme and NJJLC. Conditions of Service, and the successful applicant will require to pass a medical examination.
If required, the tenancy of a Council house will be given to the successful applicant.
Applications, stating age, qualifications and experience, and the names of two referees, should be lodged with the undersigned not later than 12th May, 1961.

GEORGE D. GRANT. Town Clerk

GEORGE D. GRANT
Town Clerk.

Municipal Chambers.
Dumfries.
15th April. 1961.

SENIOR ASSISTANT ARCHITECTS
BRITISH TRANSPORT COMMISSION
(ARCHITECTS OFFICE)
Vacancies exist for SENIOR ASSISTANT
ARCHITECTS to work on current major projects.
Salary range: £1.350-£1.560 p.a.
R.I.B.A. qualification and imaginative approach
to design, coupled with practical knowledge and
the ability to apply it, essential.
Superannuation scheme; certain travel facilities;
medical examination.
Write stating age, qualifications and experience,
to Director of Establishment, British Transport
Commission (Dept. AJ). 222. Marylebone Road.
London, N.W.I. within 14 days.

THE UNIVERSITY OF SHEFFIELD
Applications are invited for a post of
LECTURER IN ARCHITECTURE to begin
duties on 1st October, 1961. Applicants must
have had not less than three years' practical
experience. Initial salary according to qualifications and experience on the scale £1.650 × £50£1.400 × £75-£1.350, with F.S.S.U. provision and
family allowance. A grant towards removal
expenses will be made. Further particulars may
be obtained from the Registera to whom applications (three copies) with the mauses and addresses
of two referees should be sent by 31st May. 1961.

BRITISH RAILWAYS—EASTERN REGION
Apolications are invited for the post of
ASSISTANT ARCHITECT in the Office of the
Architect, Eastern Region, British Railways, at
King's Cross Station. The office is engaged on a
wide range of interesting buildings and gives
responsibility for design, administration and
site supervision to those with ability. Applicants
should be qualified or have passed the Intermediate Examination with some years' practical
experience. Salary range: £945—£1,020 per
annum. Modern working conditions—five-day
week. Rail travel concessions. Apply in writing
to the Architect, Eastern Region, British Railways, King's Cross Station, London, N.1.

IONDON COUNTY COUNCIL

ARCHITECT'S DEPARTMENT
Grade II (£1250—£1,500) and Grade III (£830— £1,250) vacancies for RESEARCH ASSISTANTS
in Town Development Division with experience
and/or qualifications of Demographic. Social and
Economic studies in connection with planning
and designing of Town Expansion projects. Also
in the same Grades vacancies for ASSISTANTS
for planning and analysis of traffic studies.
Forms (returnable by 13th May, 1961) and particulars from Hubert Bennett. F. R.I. B.A.
Architect to the Council (EK/A/1052/4), County
Hall, S.E.I.

CITY ARCHITECT'S DEPARTMENT
THREE SENIOR ASSISTANT ARCHITECTS
required on the established staff to work on an
interesting and varied programme of local
authority works.
Salary within A.P.T. Grade IV (£1,140 to
£1,310), entry point on the grade depending on
experience. Provision of housing accommodation
will be considered and removal expenses will be

Applicants must be Associate members of the R.I.B.A. N.J.C. Conditions of Service. Successful candidates will be required to pass a medical

examination.

Applications, stating age, experience and qualifications, should be received by the City Architect, Municipal Offices, Exeter, not later than 12th May, 1961.

WYCOMBE RURAL DISTRICT COUNCIL APPOINTMENT OF ARCHITECTURAL DRAUGHTSMAN
Applications are invited for the appointment of an Architectural Draughtsman in the Engineer and Surveyor's Department at a salary in accordance with Miscellaneous Grades V and VI (1685–1625 per annum).

The appointment is temporary but it is anticipated that the current programme of work will provide employment for at least three years.

The successful applicant will be engaged principally on work connected with housing schemes for aged persons with opportunities for survey work and a variety of general duties.

Applicants should be neat and accurate draughts nen with experience in the preparation of working drawings and detailing from sketches and must have a good knowledge of building construction.

The Council will be prepared to assist with housing accommodation if required.

Applications endorsed "Architectural Draughtsman," should be addressed to K. E. M. Daniels, A. M. I. C. E., M. I. Mun. E., A. R. I. C. S., Engineer and Surveyor, 8.9. Easton Street, High Wycombe, and should reach him not later than 24th May, 1961.

L. C. RYSDALE, High Street, High Wycombe, 2012.

17. High Street, High Wycombe.

COUNTY OF ESSEX
COUNTY PLANNING DEPARTMENT
Applications are invited for the following:—
(1) Vacant existing posts which have been graded in a recont review of the Department's dablishment;—

ngraded in a recent review of the Department's stablishment:—

(a) SENIOR PLANNING ASSISTANTS, A.P.T. V (£1,310—£1,480), respectively at Colchester and Romford Area Offices, in charge of Development Control Sections, and at Wanstead Area Office on Development Plan and Control work.

(b) SENIOR PLANNING ASSISTANT, A.P.T. III (V (£960—£1,310)) at Romford, in Central Areas Redevelopment Section and at Wanstead on Development Plan work.

(c) PLANNING ASSISTANTS, A.P.T. I/II (£645—£950), at Braintree, Colchester, Epping and Romford Area Offices in Development Plan and Development Control Sections, and at Romford in Central Areas Redevelopment Section.

and at Romford in Central Areas Redevelopment Section.

(2) NEWLY CREATED POSTS:—

(3) SENIOR PLANNING ASSISTANTS, A.P.T.

V. in charge of Development Control Section at Braintree, in charge of Development Plan Section at Romford, and in Development Plan and Control Section at Wanstead.

(6) SENIOR PLANNING ASSISTANT, A.P.T.

III/IV. on Rural Policy and Village Plan work at Braintree.

(7) PLANNING ASSISTANT, A.P.T. I/II. in Development Plan Section at Epping Area Office.

(f) PLANNING ASSISTANT, A.P.T. I/II in Development Plan Section at Epping Area Office.

(a) PLANNING ASSISTANT, A.P.T. I (£645—£215), on Detailed Planning and Design work at Headquarters.

Applicants for posts (a) and (d) must be corporate members of the Town Planning Institute, and applicants for posts (b) and (e) should likewise be corporate members of the Town Planning Institute, and applicants for posts (b) and (e) should likewise be corporate members of the Town Planning Institute, and applicants for posts (c), (f) and (g) should have commenced studying for an appropriate particular and active Local Planning Authority.

Applicants for posts (c), (f) and (g) should have commenced studying for an appropriate professional qualification and successful candidates will be given facilities and financial assistance to continue such studies; consideration will be given facilities and financial assistance to continue such studies; consideration will be given for university graduates with suitable degrees (e.g. Geography, Economics).

The Department's six area Offices have a large share in the current review of the County Development Plan, which will include 26 Town Maps and some 24 Comprehensive Development Areas. Rural Policy Maps and Village Plans for all principal villages are in hand, together with a large extension of the London Green Belt.

An active partnership operates between Area Offices and District Councils in dealing with some 14,000 development applications per annum. The appointed candidates are accordingly assured of good experience and an active share in the Department's work. A five-day week is in operation, and all nosts are superannuable. Appointment is subject to medical examination.

Applications, with names of three referees, to County Planning Adviser, Bromfield Place, Bromfield, Essex, by 8th May.

120

CITY OF BELFAST
Applications are invited from suitably qualified
persons for the following appointments:—
CITY ARCHITECT'S DEFARTMENT
(4) PRINCIPAL HOUSING ARCHITECT
(b) PRINCIPAL GENERAL ARCHITECT,
Salary—£1,915 × £55 (3) × £60 (1)—£2,140 per
annum.

(a) PRINCIPAL GENERAL ARCHITECT.
Salary—£1,915 × £55 (3) × £60 (1)—£2,140 per
annum.
Applicants must be Fellows or Associates of
the Royal Institute of British Architects and
Registered Architects, or Registered Architects by
examination.
Both posts carry considerable responsibility and
applicants, in addition to administrative ability,
should have wide experience, for (a) in the planning, preparation and carrying out of large scale
housing and slum clearance schemes, multi-storey
flats, shopping precincts, etc., and for (b) in the
planning, preparation and carrying out of general
public buildings, swimming baths, clinics,
libraries, babatolirs, etc.
(c) ASSISTANT PRINCIPAL EDUCATION
ARCHITECT.
(d) ASSISTANT PRINCIPAL HOUSING
ARCHITECT.
(e) ASSISTANT PRINCIPAL GENERAL
ARCHITECT.
Salary—£1,700 × £60—£1,760 per annum.
Applicants must be Fellows or Associates of
the Royal Institute of British Architects and
Registered Architects, or Registered Architects
by examination, and should have wide experience
in the design and execution of large projects for
educational, housing or general public buildings
respectively, of the type normally carried out
by a large local authority.

(f) CHIEF ENGINEER.
Salary—£1,690 × £55 (3) × £60 (1)—£1,915 per
annum.

Applicants must be Corporate Members of the

by a large local authority.

(I) CHIEF ENGINEER.

Salary—£1,690 × £56 (3) × £60 (1)—£1,915 per annum.

Applicants must be Corporate Members of the Institution of Civil Engineers, and, in addition to administrative ability, should have wide experience in the planning, preparation and carrying out of the civil, structural, heating, mechanical and electrical engineering work required for educational, housing and general hulding projects normally carried out by a large local authority.

(a) MECHANICAL ENGINEER.

Salary Scale—£1,205 × 3/£56 × 5/£50—£1,620 per annum.

Applicants must be Corporate Members of the Institution of Mechanical Engineers.

(b) ENGINEER, CLASS I (Unestablished).

Weekly wages equivalent to £1,205 × 3/£55 × 5/£50—£1,620 per annum.

Applicants must be Corporate Members of the Institution of Civil Engineers or the Institution of Mechanical Engineers of the Institution of Mechanical Engineers of the Institution of Minicipal Engineers or the Institution of Minicipal Engineers.

(i) ENGINEER, CLASS II (Unestablished).

Weekly wages equivalent to £930 × 6/£40 × 245—£1,215 per annum.

Applicants must have a Degree in Civil Engineers or equivalent to £930 × 6/£40 × 245—£1,215 per annum.

Applicants must have a Degree in Civil Engineers or equivalent.

Commencing remuneration determined in each case according to qualifications and experience. Superannuation contributions of approximately 6 per cent. of remuneration payable. Reciprocal pension arrangements exist with certain Public Authorities.

Canvassing will disqualify.

(pilication forms, etc., may be obtained from the City Architect's Department, 40, Academy Street, Belfast, 1, for posts (a). (b). (c). (d). (e) and (f): and from the City Bully Belfast, 1, for posts (a). (h) and (i).

Completed applications must reach the undersigned by 12th May, 1961.

JOHN DUNLOP Town Clerk.

City Hall. Belfast, I. P.O. Box 234.

ROYAL BOROUGH OF KINGSTON-UPONTHAMES
BOROUGH SURVEYOR'S DEPARTMENT
PLANNING ASSISTANT, A.P.T. GRADE III
(£960-£1,140 per annum plus London weighting)
Applications are invited for the above-mentioned appointment. Details and application forms obtainable from Borough Surveyor, Guildhall, Kingston-upon-Thames, and returnable by 12th May, 1961.

L. V. POWELL. Town Clerk.

Kingston-upon-Thames. 20th April, 1961.

BOROUGH OF ILPORD

BOROUGH ENGINEER'S DEPARTMENT
APPOINTMENT OF ARCHITECTURAL

GRADE MISC. IV (Marz or Femalz)

Applications are invited for this appointment.
Salary £622—£665 (blus London weighting, depending on age, and amounting to £40 p.a. if 26 or over). Commencing salary according to qualifications and experience. Maximum paid to suitable applicant. Five-day week. Candidates should be competent draughtsmen and be capable of preparing working drawings under supervision. Appointment permanent, superannuable and subject to medical examination.

Form of application obtainable from Borough Engineer, Town Hall, Hford. Closing date 15th May, 1961.

COUNTY BOROUGH OF CROYDON ARCHITECTURAL AND QUANTITY SURVEYING STAFF Applications are invited for these appointments on the Corporation's housing and general architectural work which includes a considerable variety of large interesting projects.

(a) ASSISTANT ARCHITECTS (Team Leaders), R.I.B.A. Final required. A.P.T. V (£1,355 to £1,555 including "London weighting").

(b) ARCHITECTURAL ASSISTANTS. and (c) QUANTITY SURVEYING ASSISTANTS. A.P.T. IIII/IIIII V (£666 to £1,355 including "London weighting").

"Essential user" car allowances payable for appointments (a); similar allowances payable for appointments (b) and (c) when graded in A.P.T. IV with R.I.B.A. or R.I.C.S. Final.

Pensionable posts; commencing salaries according to qualifications and experience. Five-day week (35 hours).

Housing—Assistance with rented housing accommodation will be considered. Advances up to 100 per cent. of Borough Valuer's valuation will be made available houses in Croydon by successful applicants.

Further particulars and application forms from the Borough Engineer, Town Hall. Croydon, Closing date 10th May. 1961.

CITY OF SALFORD

Applications are invited from appropriately qualified persons for the following posts in the Benziment of the City Engineer and Surveyor (G. Alexander MeWilliam. B.Sc., A.M.I.C.E., A.P.T. Grade V (£1,40—£1,565 ba.).

(b) SENIOR TOWN PLANNING ASSISTANT, A.P.T. Grade IV (£1,140—£1,310—£1,480 p.a.).

(c) TOWN PLANNING ASSISTANT, A.P.T. Grade IV (£1,140—£1,310—£1,480 p.a.).

(d) PRINCIPAL PLANNING ASSISTANT, A.P.T. Grade IV (£1,140—£1,310—£1,480 p.a.).

(e) PRINCIPAL PLANNING ASSISTANT, A.P.T. Grade IV (£1,140—£1,310 p.a.).

The Department is undertaking programmes of redevelonment and urban renewal and the posts will afford a wide variety of interesting experience. Housing accommodation may be provided in approved cases, should be sent to the City Engineer and Surveyor. Town Hall. Salford, 3. Lancs., to arrive by Monday, 8th May. 1961.

Applications, sould also indicate post applied for. Applications sho

MINISTRY OF HOUSING AND LOCAL GOVERNMENT: CHIEF PLANNER Auplications are invited for this pensionable post. The person appointed will be responsible for the organisation, direction and supervision of the Ministry's technical planning, advisory and research cervice, whose work in reviewing the objects of blanning, particularly in relation to urban development and redevelopment, is to be expanded.

expanded. The nost demands considerable organising ability and qualities of leadership, and provides the opportunity to "make an important contribution to the development of new ideas and techniques. Applicants must therefore have wide knowledge and experience in the field of planning.

ning.
Salary £4 400.
Write: Civil Service Commission Burlingtor
Gardens, London, W.1. for application form and
further particulars, quoting 5301/61. Closing data18th May 1961.

COINTY BOROUGH OF HALIFAY
BOROUGH ENCINEER'S DEPARTMENT
Applications are invited for the appointment
of ARCHITECTURAL ASSISTANT, Miscellaneous Grade III (#555 to #625).
Avoilications station age, education, training,
taggler with the names and addresses of two
referees, to whom reference can be made should
be forwarded to the Rorough Engineer Crossley
Street, Halifax, not later than 5th May, 1961.

COUNTY BOROUGH OF DARLINGTON BOROUGH ARCHITECT'S DEPARTMENT Applications are invited for the following appointments:—

ONE SENIOR ASSISTANT ARCHITECT (Group Leader), Salary in accordance with Grade V of N.J.C. Scales (£1,310-£1,480). THREE SENIOR ASSISTANT ARCHITECTS. Salary in accordance with Grade IV of N.J.C. Scales (£1,140-£1,310).

ONE DRAUGHTSMAN. Salary in accordance with General Division of N.J.C. Scales (£1,460-£1,300). ONE DRAUGHTSMAN. Salary in accordance with Grade I V of N.J.C. Scales (£1,460-£1,300). ONE JUNIOR QUANTITY SURVEYOR. Salary in accordance with Grade I of N.J.C. Scales (£645-£815). The department has a large programme including Secondary and Primary Schools, Welfare Schemes, Housing, Municipal Offices, Markets and Central Redevelopment. Preference will be given to candidates experienced in this class of work and who are, in the case of architects, members of the R.I.B.A. Applicants for the post of Junior Quantity Surveyor should be experienced in the preparation of Bills of Quantities, interim valuations, and the settling up of final accounts. Applications, stating post and giving full particulars of age, qualifications, present appointment with salary, previous appointments with salary, previous appointments with dates, and name and address of three referees, to be received by E. A. Tornbohm, A.R.I.B.A. A.M.T.P.I., Borough Architect, Central Buildings, Darlington, not later than 8th May, 1961.

Consideration will be given to provision of housing accommodation, if required in the Architect's Department for the Board's expanding building programme:

SENIOR ASSISTANT ARCHITECTS—£905 × £35 (1) × £45 (6) × £50 (2)—£1,310.

SENIOR ASSISTANT ARCHITECTS—£1,300 × £50 (6) £1,600.

ASSISTANT ARCHITECTS—£905 × £35 (1) × £45 (6) × £50 (2) £1,310.

Applicants must be Registered Architects. The posts offer excellent opportunity for gaining experience in a varied and interesting field of Hospital Building.

Details of training, qualifications, experience, present salary, with the names of three referees, should be submitted to the Secretary of the Board, 251, Sauchiehall Street, Glasgow, C.2, not later then 29th May, 1961.

CITY OF OXFORD

CITY ARCHITECT AND PLANNING OFFICER Applications invited for this appointment. Salary within scale £2,695—£3,070 a year. Car allowance.

Further particulars and application forms (to

Further particulars and application forms (to be returned by May 20th, 1961) can be obtained from me.

HARRY PLOWMAN. Town Clerk.

Town Hall.

Oxford.

BOROUGH OF OLDBURY
Applicants are invited for the appointment on the staff of the Borough Surveyor's Department of CHIEF ARCHITECTURAL ASSISTANT.
Salary A.P.T. Grade V. £1,310-£1,480.
Candidates for the post must be Associates of the R.I.B.A. and should have high ability in design and be capable of preparing schemes and supervising contracts in connection with General Housing including Multi-storey Flats. Public Buildings, School Buildiags and Minor Improvements and Maintenance Works.

The appointment will be superannable subject to the National Conditions of Service and to the selected candidate passing a medical examination.

the selected candidate passing a medical examination.

Applications on forms to be obtained from and completed and delivered to the undersigned not later than 10th May, 1961. Canvassing will disqualify.

KENNETH PEARCE, Town Clerk.

Municipal Buildings, Oldbury, April, 1961.

THE UNITED NEWCASTLE UPON TYNE
THE ROYAL VICTORIA INFIRMARY,
NEWCASTLE UPON TYNE
Applications are invited for the following

Applications are invited for the following ofts:—

(a) ASSISTANT ARCHITECT. Salary Scale: £995 × £35 (1) × £45 (6) × £50 (2)—£1,310. Applicants should have passed the R.I.B.A. Final Examination. For Registered Architects increments can be given above the bottom of the grade, in accordance with practical experience. Qualified but unregistered architects can enter the Architectural Assistant Scale at a salary point of £865 per annum.

(b) ARCHITECTURAL ASSISTANTS. Salary Scale: £625 × £30 (8) × £35 (1)—£900. Intermediate R.I.B.A. required with some practical experience.

Scale: \$625 \times 25 (0) \times 25 (1) -- £900.

Intermediate R.I.B.A. required with some practical experience.

(c) ARCHITECTURAL

Salary Scale: £475 \times £25 (6) \times £30 (2) -- £695.

Three years' minimum experience in an Architect's Office required. Evening study facilities available at King's College, University of Durham (adjoining Infirmary).

These appointments offer an opportunity to work with a small group of Architects engaged, in conjunction with several firms of Architects, on the development and modernisation of this Teaching Hospital.

Applications, stating qualifications, training, experience, present salary, etc., with names of three referees, two of whom should be Architects, to be sent to the House Governor & Secretary, Royal Victoria Infirmary, Newcastle upon Tyne, I. before 20th May, 1961.

ROYAL BURGH OF INVERNESS

BURGH ARCHITECT'S AND TOWN
PLANNING DEPARTMENT

APPOINTMENT OF CHIEF ASSISTANT

APPOINTMENT OF CHIEF ASSISTANT

APPOINTMENT OF CHIEF ASSISTANT

ARCHITECT

Applications are invited for the above appointment. Salary scale Admin. Div. Grade "B." £975/£1.055, with placing according to experience. Applicants should be A.R.I.B.A. with a flair for modern design. The post offers a valuable opportunity of obtaining experience in Housing. Town Planning and all allied Local Authority work. Housing accommodation will be provided. The post is superannuated. Medical examination.

Applications, together with the names of two referees, to be lodged with the Burgh Architect, II, High Street, Inverness, within ten days of the publication of this advertisement.

JAMES CAMERON.

Town House.

Inverness.

BIT A0711, 1961.

Town House.
Inverness.
18th April. 1961.

ROROUGH OF HORNSEY
APPOINTMENT OF ARCHITECTURAL
ASSISTANT
GRADE A.P.T. I/II
Applications are invited for the above appointment in the Architects' Section of the Borough Engineer & Surveyor's Department. Salary according to experience within Grades A.P.T. I/I (645 to 2960 nlus London weighting).
Details and application form from the Borough Engineer & Surveyor. Town Hall. The Broadway. Crouch End. London. N.8, to be returned by Wednesday. the I/I May. 1961.

ROROUGH ENGINEER AND SURVEYOR'S DEPARTMENT
Applications are invited for the following permanent appointments (five-day week):—
ENGINFERING ASSISTANT—A.P.T. III. ARCHITECTURAL ASSISTANT—A.P.T. IIII. and A.P.T. IV.
SENIOR PLANNING ASSISTANT—A.P.T. IIII. Details of appointments and application forms obtainable from the Borough Excineer & Surveyor, 7. Little Park Gardens. Fuffield.

CYRIL E. C. R. PLATTEN.

Civic Centre.

7124

COURTAULDS

ARCHITECTS AND STRUCTURAL ENGINEERS

COURTAULDS has vacancies for Architects and Structural Engineers in its expanding Architects' Department at Coventry.

ARCHITECTS (Reference No. B.66a/2)

Applications are invited from men and women under 40 years of age to fill vacancies for both recently qualified or more experienced Architects

STRUCTURAL ENGINEERS

(Reference No. B.66b/2)

Applications are invited from men capable of using initiative and skill in the design of a wide variety of plant and building structures. Preference will be given to applicants who are experienced in reinforced concrete design.

Candidates should write for detailed form of application to the Director of Personnel, Courtaulds Limited, 16, St. Martins-le-Grand, London, E.C.1, quoting the appropriate reference number.

CITY OF SHEFFIELD

CITY ENGINEER AND SURVEYOR'S

DEPARTMENT

Applications are invited from suitably qualified persons for the following appointments on the staff of the City Engineer and Surveyor and Town Planning Officer (Mr. C. R. Warman, B.Sc., M.I.O.E., M.I.Mun, E., M.T.P.I.),

(a) AREA PLANNING DEFICER—Grade B (£1,480-£1,670 p.a.), The person appointed to this post will be required to take charge of the Special Works Section which deals with redevelopment units, landscaping, wayside gardens and featurgs, and generally assist all other Sections of the City Engineer's Department where matters of design in association with amenity are involved.

City Engineer's Department where matters of design in association with amenity are involved.

(c) SENIOR PLANNING ASSISTANT—Grade A.P.T. IV (£1,140—£1,310 p.a.).
Candidates for posts (a) and (b) should have a Town Planning qualification and an architectural or other suitable additional qualification would be an advantage.

The commencing salary for each of the above posts will be in accordance with experience and qualifications.
Consideration will be given if required to assistance with housing accommodation and removal expenses in suitable cases.

Superannuable posts, N.J.C. Conditions of Service, Medical Examination,
Applications, stating age, education and training, qualifications, experience, present and past appointments (with dates and salaries) and quoting the names of two referees, should be submitted to the undersigned by the 15th May next.

JOHN HEYS. Town Clerk

Town Hall.

Sheffield. 1. 7158

LONDON COUNTY COUNCIL

QUALIFYING EXAMINATION FOR THE
OFFICE OF DISTRICT SURVEYOR
An examination for the certificate of proficiency
to perform the duties of district surveyor will
be conducted in London in the week commencing
9th October, 1961. The minimum age limit for
candidgizes is 25.
Possession of this certificate is necessary for
appointment to positions as District Surveyor
(salary scales £1.925 to £3.700 a year) or as Assistant District Surveyor (present salary scale
£1.500 to £1.700 a year, plus £61 10s a year and
£1.500 to £1.700 a year, plus £61 10s a year
Apply to the Architect to the Council
(ED/A/1045/4). County Hall, Westminster Bridge.
\$£1. for application forms and further particulars, Completed applications to be submitted
before 1st September, 1961.

ticulars. Completed applications to be submitted before 1st September. 1981.

EDINBURGH CORPORATION
Applications invited for TWO PLANNING ASSISTANTS, salary scale £850-£1,150 per annum. Applicants desirably should have passed the Final Examination of the Town Planning Institute or equivalent and have had good general experience in town planning. The posts are pensionable and subject to a medical examination.

Apply by letter, giving full particulars, together with copies of two recent testimonials, to the Town Planning Officer, City Chambers, Edinburgh, not later than 20th May, 1961. 7205

LANCASHIRE COUNTY COUNCIL COUNTY ARCHITECTS APT. IV (£1,140-£1,310). (Starting salary according to experience.)

Applications are invited from qualified ARCHITECTS of initiative, keen on design and modern constructural methods, to work on a large and varied programme.

constructural methods, to work on a large and varied programme.

If appointed, applicants will be able to claim a disturbance allowance up to a maximum of £125, a facility offered by the County Council to cover the expenses of removal and other associated costs.

Application forms and details of appointment obtainable from the County Architect, P.O. Box 26, County Hall, Preston, returnable by 12th May. 7108

26, County Hall, Preston, returnable by 12th May.
7103
COUNTY BOROUGH OF SOUTHEND-ON-SEA
BOROUGH ARCHITECT'S DEPARTMENT
APPOINTMENT OF CHIEF ASSISTANT
APPLICATIONS are invited for the above appointment, salary Lettered Scale C, £1.550-£1.825
per annum. There is a car mileage allowance.
Applicants should have had a wide experience in an office known for its enthusiasm for modern practice and be able to demonstrate ability to work with senior staff engaged on major projects including a new civic centre.
The appointment will be subject to the provisions of the Local Government Superannuation Acts and the National Joint Council's Scheme of Conditions of Service so far as adopted by the Council. Medical examination.
Housing accommodation will be available and removal expenses paid to the successful candidate.
Applications, giving full details to be sent to

date.
Applications, giving full details, to be sent to
the Borough Architect not later than Monday,
22nd May, 1961.
Canvassing will disqualify. Any candidate
who is related to member or officer of the Council
is required to disclose the fact.

ARCHIBALD GLEN.
Town Clerk.
7155

COUNTY OF ESSEX
COUNTY PLANNING DEPARTMENT
MINERALS, LANDSCAPE AND AMENITIES
OFFICER, SCALE A (£1,380-£1,565)
Applications invited from qualified Planners,
Architects or Landscape Architects for the above
post. This is a new senior appointment at Headquarters Office with important responsibilities
for control of mineral workings (mainly sand
and gravel, but also chalk) and for positive action
in securing restoration of and appropriate afteruse of worked-out pits. The Officer will be directly
concerned in landscaping and tree planting
schemes in these worked-out areas as well as
advising generally in 'undscaping for active pits
and other planting that the County Council is
carrying out under the National Parks and
Access to the Countryside Act. He will also
have charge of a small H.Q. section dealing with
Landscape & Amenities throughout the County,
especially overhead power lines, tree preservation
and planting schemes, advertise ent control,
caravans, chalet and other types of holiday
development, footpaths and listed buildings of
architectural and historic interest, and will report
to and generally advise the Landscape &
Amenities Sub-Committee and Caravan SubCommittee of the Country Planning Committee.
The extent to which the officer appointed
would be personally responsible for each of the
above types of work would depend on his particular experience and qualifications.
A five-day week is in operation and this post
is superannuable. Appointment is subject to
medical examination.

Applications, with names of three referees, to
County Planning Adviser, Broomfield Place,
Eroomfield, Essex, by 8th May, 1961.

Total

Broomfield, Essex, by 8th May, 1961.

PROOUGH OF ROWLEY REGIS BUILDING DEPARTMENT

Applications are invited for the post of ARCHITECTURAL ASSISTANT, salary A.P.T. Grade III (1960-121,40).

Candidates should be trained and experienced in the design and preparation of schemes and supervising Contracts in connection with housing, including multi-storey flats.

The appointment will be superannuable and subject to the National Conditions of Service and to the selected candidate passing a medical examination.

Consideration will be given to the provision of housing accommodation, if required.

Applications, stating age, qualifications and experience, together with two recent testimonials, should be sent to the undersigned not later than Monday, the 15th May, 1961.

G. C. COOKSON.

Municipal Buildings.

Municipal Buildings, Old Hill, Staffs. April, 1961.

April, 1961.

COUNTY BOROUGH OF SMETHWICK BOROUGH ENGINEER & SURVEYOR'S DEPARTMENT APPOINTMENT OF SENIOR ASSISTANT ARCHITECT

Applications are invited for the above appointment—salary A.P.T. IV-V (£1,140—1,480) per annum. The commencing salary will be according to the qualifications are experience of the successful applicant.

The post is subject to the provisions of the National Scheme of Conditions of Service; the Local Government Superannuation Acts 1937-53; the oassing of a medical examination and to termination by one month's notice on either side. Form of application may be obtained from the Borough Engineer and Surveyor, Council House, Smethwick, and should be returned in an envelone suitably endorsed, to reach him not later than 12th May, 1961.

E. L. TWYCROSS,

Town Clerk.

April. 1961.

LANCASHIRE COUNTY COUNCIL

COUNTY ARCHITECT'S DEPARTMENT
ASSISTANT ARCHITECTS, A.P.T. V (£1,310—
£1,480). (Starting salary according to
experience.)

Applications are invited from qualified ARCHITECTS of initiative, keen on design and modern
constructural methods, to work on a large and
varied programme.

If appointed, applicants will be able to claim
a disturbance allowance up to a maximum of
£125, a facility offered by the County Council to
cover the expenses of removal and other
associated costs.

Application forms and details of appointment
obtainable from the County Architect, P.O. Box
26, County Hall, Preston, returnable by 12th May,
7109

PADDINGTON BOROUGH COUNCIL
ASSISTANT ARCHITECT (£1,005-£1,355)
(starting salary according to experience)
A.R.I.B.A. Candidates should have experience
in design and supervision of building works and
knowledge of local authority requirements. Fiveday week. Applications stating age, qualifications, experience, posts held and names of two
referees, should reach me by 10th May, 1961
(quoting A.536).

W. H. BENTLEY. Town Clerk.

Town Hall. Paddington, W.2.

CITY OF BRADFORD

ARCHITECTURAL ASSISTANT-Post No. 204
A.P.T. IV.V. (21,140-21,480)

Applications are invited for the above superannuable appointment in the City Engineer and
Surveyor's Department,
Applicants should have had experience in the
design of houses, flats and shops and the layout
of housing estates, have sound design ability and
be experienced in the preparation of working
and detail drawings and be either A.R.I.B.A. or
A.M.T.P.I.
Application forms obtainable from the City
Engineer and Surveyor, Town Hall, Bradford, 1,
with three testimonials, must be received by the
undersigned by 12th May, 1961.

HENRY PATTEN.

Town Clerk.

Bradford, 1

Town Hall,

Bradford, I.

CITY OF BRADFORD

SENIOR TOWN PLANNING ASSISTANT—Post No. 15

Applications are invited for the above superannuable appointment in the City Engineer and Surveyor's Department.

Candidates should have experience in dealing with applications for development for new housing, industrial and commercial building and advertisement control, and should be either A.M.I.C.E.

Application forms obtainable from the City Engineer and Surveyor, Town Hall, Bradford, I, with three testimonials, must be received by the undersigned by 12th May, 1961.

Town Hall.

Bradford, 1.

BOROUGH OF RAWTENSTALL
APPOINTMENT OF CHIEF ARCHITECT
Applications are invited for the above permanent appointment at a salary within A.P.T. IV
(£1.40—£1.510 per annum). Applicants should be members of the R.I.B.A.
The appointment will be subject to the provisions of the Local Government Superannation Acts, the National Scheme of Conditions of Service and the termination by one month's notice by either side. Housing accommodation will be available.
Applications, including names and addresses

will be available.

Applications, including names and addresses of two referees, should reach the undersigned not later than Friday, the 12th May, 1961, Canvassing will disqualify. Any relationship to members of senior officers of the Council must be disclosed.

COLIN CAMPBELL.

Town Hall,
Rawtenstall,
Rossendale,
Lancs.

BOROUGH OF RAWTENSTALL
APPOINTMENT OF ARCHITECTURAL
ASSISTANT
Applications are invited for the above appointment on the permanent staff at a salary within A.P.T. III (1950-21,140 per annum).
The appointment will be subject to the provisions of the Local Government Superannuation Act, the National Scieme of Conditions of Service and the termination by one month's notice by either side. Housing accommodation will be available.
Applications, including names and addresses of two referees should reach the undersigned not later than Friday, the 12th May, 1961. Canvassing will disqualify. Any relationship to members or senior officers of the Council must be disclosed.

Town Hall,
Rawtenstall,
Rossendale,
Lancs COLIN CAMPBELL.
Town Clerk.

Rossendale,
Lancs. 7140

CITY OF LIVERPOOL
ARCHITECTURAL AND HOUSING DEPARTApplications are invited for the following appointments. Salary in each case £1,650-£2,345
p.a. in accordance with Scale E.F.
(a) PRINCIPAL ARCHITECT (EDUCATION) to take charge of the section concerned with the City's Education Building Programme which includes Technical Colleges, Training Colleges, as well as Primary. Secondary and Special Scheels.
(b) PRINCIPAL ARCHITECT (GENERAL) to take charge of the section dealing with the Architectural works of all Committees of the Corporation, except the Housing and Education Committees, involving a great variety of civic and public buildings.
Applicants must be Fellow or Associates of the Royal Institute of Eritish Architects.
Applicants should state which appointment they wish to apply for. Application forms, from the City Architect and Director of Housing, Blackburn Chambers, Dole Street, Kingway, Liverbool, 2, should be returned to him by 20th May. 1961.

THOMAS ALKER.
Town Clerk.
7130

(J.6767)

COUNTY BOROUGH OF BOOTLE SENIOR PLANNING ASSISTANT Applications are invited for the above appointment in the Planning Section of the Borough Engineer and Surveyor's Department. Candidates should have passed the Final Examination of the Town Planning or other appropriate Institution and possess experience in the Office of an Urban Planning Authority on the preparation of a Development Plan, Reconstruction and Redevelopment of Central Areas.

Areas.

Commencing salary within the range of Grade A.P.T. IV.V. 81,140—61,480, according to qualifications and experience.

Applications on forms obtainable from Mr. T. W. Crookdake, A.M.I.C.E. M.I.Mun.E. A.R.I.C.S. A.M.T.P.I., Borough Engineer and Surveyor, Town Hall, Bootle, 20, Lancs., should be returned to him not later than Monday, 15th, May, 1961.

HAROLD PARTINGTON.

Town Clerk.

Architectural Appointments Vacant

Architectural Appointments Vacant

is, per line; minimum 12s. Box Number,
including forwarding replies, 2s. extra.

PONALD WARD AND PARTNERS invite
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and Junior. Long-term prospects. Scope for
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Lsies, West Africa and Australia. Salaries commensurate with ability. Non-contributory Pension
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Pleasant offices. Apply 29, Chesham Place, Belgrave Square, London, S.W.1. Tel.: BELgravia
3561.

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TANTS with imagination and designing ability required to assist with large and important new developments in the central London Area.
Telephone or write:
Preston & Partners.
HOLborn 4071.

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Partners, 20. Bedford Square, London, W.C.1. 5418

SENIOR ASSISTANTS required. Please apply to F. G. Frizzell, A.R.I.B.A., 80, Portland Place, W.L. LANgham 1732.

ARCHITECTURAL ASSISTANTS of all grades, particularly Intermediate standard, required on varied and interesting projects. High salaries will be paid in accordance with skill or experience of applicant. Lewis Solomon, Kaye & Partners, City 8811. 5970

PLAYNE & LACEY require experienced and enthusiastic SENIOR ARCHITECTURAL ASSISTANT for work on University project. Salary range £1,200 to £1,500. Write 19, Queen Anne's Gate, Westminster, S.W.I, or ring WHI 2552 for interview.

A RCHITECTURAL ASSISTANTS required in busy Bloomsbury office with varied practice. Good salary and prospects for suitable applicants. Five-day week Write giving particulars of age, qualifications, experience, etc. to Box 918. c/o 7. Coptic Street, W.C.1. 5647

DPORTUNITY for Intermediate or newly-qualified ASSISTANT with initiative and all-round ability, to join youthful expanding prac-tice in Croydon. Apply to Donald Rowswell & Partners, 11/11a. George Street, Croydon, or tele-phone CROydon 4080.

phone CROydon 4000 vr.

SENIOR ASSISTANTS required for work on large Hospital programme, excellent opportunities for the right men. salary £1,000-£1,400. Luncheon Vouchers and five-day week. Write giving full particulars to W. H. Wakkins, Gray and Partners, 57. Catherine Place, S. W.1. 5633

A RCHITECTURAL ASSISTANTS required for interesting work, including schools and hospitals, in Croydon office. Commencing salaries officerd: 2900-£1,150 for Associates, 2600-2630 for students, according to age and experience. Five-day week and annual bonus. Write to George Lowe & Partner, 79, George Street, Croydon.

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Eray's Ina Square, W.C.I.

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Reno Goldfinger requires several qualified Assistants with at least 2 years' experience to take part in a growing programme of interesting work which includes large office buildings, central developments, Local Authority housing, schools and private houses. Good salaries and scope for men with sound knowledge of construction. Phone HYDe Park 5657. 5064

SENIOR and INTERMEDIATE ASSISTANTS

required, qualified or unqualified, provided

ENIOR and INTERMEDIATE ASSISTANTS
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VORKE, ROSENBERG AND MARDALL have some vacancies for experienced STAFF, starting salary according to qualifications and experience, in the range £950-£1,200. Ring AMBassador 4521 for appointment.

AMBassador 4521 for appointment.

RCHITECTS' ASSISTANTS required, both Intermediate R.I.B.A. and Finals standard, with experience in this country. Good salary offored. Bernard Gold & Partners, 4/6, Savile Row, W.I. Regent 7551.

INTERMEDIATE to Final ASSISTANTS required immediately. Salary according to ability and experience. Theo. H. Birks, 36, Portland Place, London, W.I. LAN. 7236. 9739

ability and experience. Theo. H. Birks. 38. Portland Place, London, W.I. LAN. 7236. 9739

A RCHITECTS' ASSISTANTS required, Final And Intermediate standard, to work on large and interesting projects. Salary £850 to £1.000. Applicants must be good draughtsmen, with sound knowledge of detailing. Please write giving full particulars of experience, age, etc. 6: F. W. Beech & E. Curnow Cooke, E. L. B. L. B. D. 18 Field, Exeter. 6946.

CHALLEN AND FLOYD require an ASSISTANT of Intermediate to Final standard with a minimum of five years' experience. Work will be interesting, varied and responsible. Salary according to age and experience. Luncheon vouchers provided. Apply to 7. Cromwell Road. London. S.W.7. KENSington 8334/8549. 6491.

DLAYNE & LACEY require experienced and enthusiastic ARCHITECTURAL ASSISTANTS. Salary range £900-£1,650. Write 19, Oueen Anne's Gate. Westminster, S.W.1. or ring WHI 2552 for interview.

JOBS with scope and commensurate salaries offered to worthwhile ARCHITECTS, ASSISTANTS and POST-GRADUATES of ability, in expanding but personal practice of Armstrong and MacManus, Letters marked confidential to 28. Gloucester Place, W.1. or telephone WELbeck 2273 for appointment.

RCHITECTS R. I.B.A. Final and Intermediate ASSISTANTS required to take responsible posts in expanding practice in York with work on Hospitals, Education, Railway and Commercial buildings. Salary by agreement. Pension scheme available. Box 6797.

A BCHITECTURAL ASSISTANT at Intermediate Standard required for West End Branch of Provincial Architects. Interesting and varied work. Five-day week, Luncheon Vouchers. Write full particulars of age, experience and salary required to Box 6925.

QUALIFIED ARCHITECTURAL ASSISTANT required immediately in Home Counties office. Considerable scope for work on industrial, commercial and housing schemes. Five-day week. Write full particulars of age, experience and salary required to Box 6926.

Salary required to Box 6926.

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ING COLLEGES—HALLS OF RESIDENCE.
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INN FIELDS, W.C.2 (OFF KINGSWAY) OR
PHONE HOL. 3532 FOR APPOINTMENT. 6912

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TECTS. Write Staplehurst, Nr. Tonbridge, Kent, or phone Staplehurst 248.

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ENIOR ASSISTANT ARCHITECT required to take charge of interesting projects in the Staff Architect's Department of a large Multiple Organisation, with Head Office in Leeds. Permanent position with prospects. Good salary. Apply, with brief particulars, to D. Greenwood, B.Arch., A.R.I.B.A., Staff Architect's Department, Cardigan Crescent, Leeds, 4.

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A SSISTANT ARCHITECTS required, recently qualified or Intermediate standard, to join design teams working on a variety of interesting projects throughout the country. Work involves design and site supervision. Good salary. Apply, with brief particulars, to D. Greenwood, B. Arch., A.R. I.B.A., Staff Architect, John Collier Tailoring Organisation, Architects Department, Cardigan Crescent, Leeds, 4. 6900

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A ROHITECTS. Experienced ASSISTANTS required for work on interesting major schemes, able to fake initiality and resourchibility.

ners, 19 Hanover Square, W.I.

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B. D. BUSSELL & PARTNERS have vacancies for several ASSISTANTS, either office experience, salary £750 to £1,000, to work on interesting projects including an hotel, multistorey office building, shops, interior and furniture design. Telephone: CHAncery 3553. 6778

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SLOUGH ESTATES LTD. require an ARCHI-TECTURAL ASSISTANT with at least five years experience, chiefly for industrial work. Five day week, good working conditions, luncheon vouchers, pension scheme, etc. Plesse apply stating age experience and salary to The Chief Architect, Slough Estates Ltd., Bedford Avenue, Trading Estate, Slough, Bucks.











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nands). Box 6804.

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experience for a variety of interesting jobs.
Apply to Robert Matthew & Johnson-Marshall,
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ASSISTANTS of all grades. Salaries from £1,200
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Square, W.C.1.

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Pasil Spence & Partners require qualified and experienced Architects to fill positions of responsibility on a major building programme. Write to 1, Fitzroy Square, W.1. stating experience and salary required.

9824

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SENIOR ASSISTANTS required immediately.
Salary by arrangement. Theo. H. Birks, 38,
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POTHAIN TRACE, LORGON, W. L. BOND PINCKHEARD POTHAL LEDEBOER AND PINCKHEARD require ASSISTANTS in the salary range 2750—21,250. Apply 17-20. Mason's Yard, Duke Street, St. James's, S.W.1. Tel.: TRAfalgar 1866.

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A RCHITECTURAL ASSISTANT required for North Devon Office. Box 6673.

A BCHITECTURAL ASSISTANTS, Intermediate and Final standard, required immediately for a wide variety of work mainly commercial and industrial. Write giving experience and salary required: Howell, Freeman & Batten, Chartered Architects, Reading. 6477

NORTH LONDON. ASSISTANTS required about R.I.B.A. Intermediate standard. Wide variety of interesting work. Five-day week. Facilities for part-time day study. Apply C. E. Owen Ward, L.R.I.B.A., Midland Bank Chambers Palmers Green, London, N.13. PAL 1186/7. 6588

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KENSINGTON OFFICE-ARCHITECT'S DEPT.

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Five-day week, superannuation, dining facilities. Good salary according to experience and quali-

Apply giving details of age, experience and salary required, to:-

Staff Architect, 26/40 Kensington High St., London, W.8. 6579

OFF MARSH. F.R.I.B.A., M.T.P.I.. requires qualified and experienced ARCHITECT, also ASSISTANT of Intermediate standard. Interesting large projects including shops, flats, offices and schools; working in an office in pleasant surroundings. Write, stating age, experience and salary required to 125/7, London Road, Chelmsford, Essex.

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SENIOE ARCHITECTS with good technical experience and design ability for large scale
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Delower Grosvenor Place, S.W.1. Victoria 4304.

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Partners, 29, Chesham Place, Belgrava Square, 8.W.I. Belgravia 3361.

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Chief Assistant required. A.R.I.B.A.

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A RCHITECTURAL ASSISTANTS required immediately of Intermediate or higher standard. Definite prospects in small busy office. Apply giving age and experience to: Taylor Knight & Co., Brooksmoor House, Grove Road. Rotherham.

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EXPERIENCED ASSISTANTS required for responsible positions in West End office. Salaries £1,000—£1,500. Apply Box 6371.

MANCHESTER.—SENIOR ASSISTANT required, preferably qualified capable of handling a wide variety of interesting contemporary schemes. Alternate Saturdays, the weeks' holiday. Salary £1,000-£1,250, or by arrangement, bonus scheme. Mather & Nutter, A/A.B.I.B.A. Canada House, 3, Chepstow Street, Manchester, 1.

Manchester, L.

TEPHENSON, YOUNG & PARTNERS,
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A RCHITECTURAL ASSISTANT for Architects' Department of Development Company
with headquarters in Brixton. Salary range
2800—21,000. Apply Chief Architect, Bunting
Estates Ltd., 73, Acre Lane, London, S.W.2. 7025 Estates Ltd., 73, Acre Lane, London, S.W.2. 7025

POOTS,—ASSISTANT ARCHITECTS, ARCHITECTURAL ASSISTANTS. During the coming years, in addition to the vast programme of rebuilding or extending our retail branches, new industrial projects will be commenced. The Architects Department, headed by Mr. C. St. C. Oakes, M.B.E., F. R.I.B.A., is responsible for the whole of this work which, besides retail premises, includes laboratories, office buildings, warehouses, chemical and other production units and ancillary buildings.

Vacancies exist with this Department for Assistant Architects and Architectural Assistants to work on industrial projects. These positions are permanent and pensionable and a five-day week is in operation. Applications should be sent, giving full details, to the Personnel Manager, Boots Pure Drug Co. Ltd., Station Street, Nottingham, quoting reference No. A.13.

PRINCIPAL ASSISTANT, salary £1,200 for qualified man with experience, high standard of draughtemanship, in small intimate office. Oliver E. Steer, 19, Hatherley Road, Sidcup, Kent. FOO 3166, 6983

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Scheme.
details to:
Ruddle & Wilkinson, F/L/A.R.I.B.A.
Long Causeway Chambers,

Long Causeway Chambers.

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CANADA

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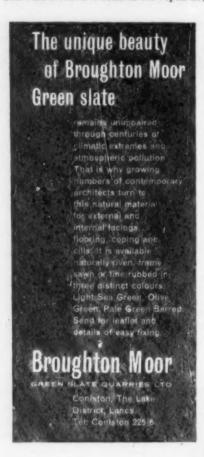
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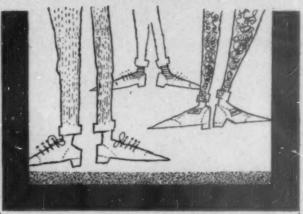
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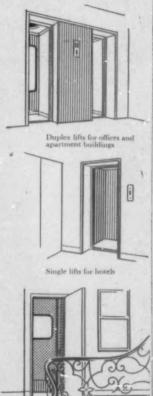
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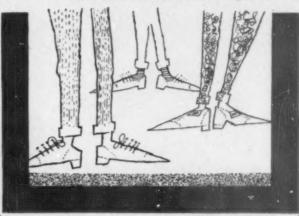
Throughout the cities of Britain new office blocks are springing up. They embody the best qualities of modern design. But how many architects, looking back to the planning stage, can say there were no long, and sometimes stormy, conferences with the client. The client is concerned, first and foremost, with the function of the building. The architect seeks to express that function in design. Misunderstandings occur. They are bound to, since the client is not normally experienced in planning an office, nor designing a building. And the marriage of function and design is not only important, it is essential to the smooth running of a business.

What is needed is an expert, and it is at this point that a planning service is of immense benefit to architect and client alike. For a definite layout of the interior leaves the architect free, and certain, to design the building. Naturally such planning must be done by experts, and the consultants of our advisory service have the experience to justify the

The basic principles of Office Planning are explained, and the need for such a service underlined in a new booklet, " A New Concept of Office Planning."

To send for this free booklet just attach the coupon to your letterheading and a copy will be sent by return. In it you will find more about our service and how we feel we can help you.

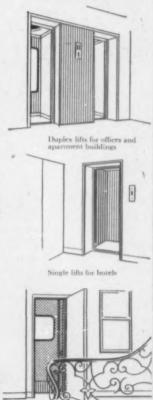




Going up in West Africa?

Sabiem lifts are now available in West Africa. Sabiem of Bologna, Italy, manufacture a complete range of lifts, including office lifts, car lifts for garages, cargo lifts for warehouses and lifts suitable for hospitals and private houses. The United Africa Company Ltd., the sole agents for Sabiem lifts in West Africa, have a complete lift advisory service, staffed with qualified engineers. If you require any information on installation, costing or local conditions write to The United Africa Company, Ltd.

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23-storey flats in the City of Westminster

High above the City of Westminster, London's tallest block of flats, the 23-storey, 212 ft. Hide Tower, Hide Place, Westminster, is due for completion in June.

Speedandeconomy of construction have been achieved by efficient design; the superstructure up to second floor level is of in situ reinforced concrete; above this, precast concrete frame units, lifted by tower crane, are anchored by precast reinforced concrete floor slabs to a central core which runs the full height of the building and contains the lift well, refuse chutes and central landing. The reinforced concrete cladding panels, which are faced with Norwegian quartz white crystal exposed aggregate, have been designed for fixing from within dispensing with the need for scaffolding.

Hide Tower will accommodate 160 flats on 20 floors, above a double-storey height open ground floor, and surmounted by a single-storey laundry and club room. Two high-speed inter-connected lifts will serve all floors.



Director of Housing, City of Westminster, E. J. Edwards, F.R.I.B.A, F.R.I.C.S, F.Inst.Hsg Architects: Stillman and Eastwick-Field Stuctural Engineers: Charles Weiss and Partners Quantity Surveyors: Harry Trinick and Partners

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