

# THE ARCHITECTS' JOURNAL



## standard contents

every issue does not necessarily contain  
all these contents, but they are  
the regular features which  
continually recur.

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Wanted and Vacant

No. 2986] [Vol. 115  
THE ARCHITECTURAL PRESS  
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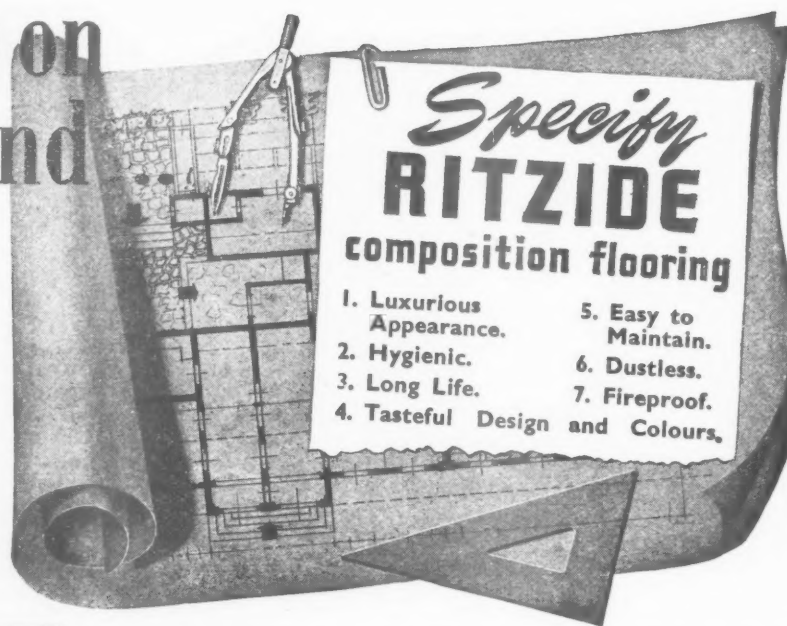
Registered as a Newspaper.

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

AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhamstead, Herts.	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Langham 5721
ABT	Association of Building Technicians. 5, Ashley Place, S.W.1.	Victoria 0447-8
ACGB	Arts Council of Great Britain. 4, St. James' Square, S.W.1.	Whitehall 9737
ADA	Aluminium Development Association. 33, Grosvenor Street, W.1.	Mayfair 7501/8
APRR	Association for Planning and Regional Reconstruction. 34, Gordon Square, W.C.1.	Euston 2158-9
ArchSA	Architectural Students' Association. 34/36, Bedford Square, W.C.1.	
ARCUK	Architects' Registration Council. 68, Portland Place, W.1.	Langham 8738
AScW	Association of Scientific Workers. 15, Half Moon Street, Piccadilly, W.1.	
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Grosvenor 4761
BATC	Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1.	Langham 5721
BC	Building Centre. 26, Store Street, Tottenham Court Road, W.C.1.	Reliance 7611, Ext. 1706
BCC	British Colour Council. 13, Portman Square, W.1.	Museum 5400
BCCF	British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13.	Welbeck 4185
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham.	Perivale 6869
BDA	British Door Association. 10, The Boltons, S.W.10.	Redditch 716
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2.	Flaxman 7766
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.	Temple Bar 9434
BIAE	British Institute of Adult Education. 29, Tavistock Square, W.C.1.	Glasgow Central 2891
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Euston 5385
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Chancery 7772
BOT	Board of Trade. Millbank, S.W.1.	Langham 2785
BRDB	British Rubber Development Board. Market Buildings, Mark Lane, E.C.3.	Whitehall 5140
BRS	Building Research Station. Bucknalls Lane, Watford.	Mansion House 9383
BSA	Building Societies Association. 14, Park Street, W.1.	Garston 2246
BSI	British Standards Institution. 28, Victoria Street, S.W.1.	Mayfair 0515
BTE	Building Trades Exhibition. 4, Vernon Place, W.C.1.	Abbey 3333
CABAS	City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A., Borough Architect, Town Hall, Newport, Mon.	Holborn 8146/7
CAS	County Architects Society. C/o F. R. Steele, F.R.I.B.A., County Hall, Chichester.	Newport 3111
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Chichester 3001
CCP	Council for Codes of Practice. Lambeth Bridge House, S.E.1.	Sloane 5255
CDA	Copper Development Association. Kendals Hall, Radlett, Herts.	Reliance 7611
CIAM	Congrès Internationaux d'Architecture Moderne. Doldertal, 7, Zurich, Switzerland.	Radlett 5616
COID	Council of Industrial Design. Tilbury House, Petty France, S.W.1.	Switzerland.
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.W.1.	Whitehall 6322
CUC	Coal Utilization Council. 3, Upper Belgrave Street, S.W.1.	Sloane 4280
CVE	Council for Visual Education. 13, Suffolk Street, Haymarket, S.W.1.	Sloane 9116
DGW	Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1.	Reading 72255
DIA	Design and Industries Association. 13, Suffolk Street, S.W.1.	Reliance 7611
DPT	Department of Overseas Trade. 35, Old Queen Street, S.W.1.	Whitehall 0540
EJMA	English Joinery Manufacturers' Association (Incorporated). Sackville House, 40, Piccadilly, W.1.	Victoria 9040
EPNS	English Place-Name Society. 7, Selwyn Gardens, Cambridge.	Regent 4448
FAS	Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns, S.W.1.	
FASSC	Federation of Association of Specialists and Sub-Contractors, 5, Arundel Street, Strand.	Sloane 2837
FBI	Federation of British Industries. 21, Tothill Street, S.W.1.	Temple Bar 6633
FC	Forestry Commission. 25, Savile Row, W.1.	Whitehall 6711
FCMI	Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.	Sloane 1002
FDMA	Flush Door Manufacturers Association Ltd. Trowell, Nottingham.	Ilkerton 623
FLD	Friends of the Lake District. Pennington House, nr. Ulverston, Lancs.	
FMB	Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1.	Ulverston 201
FPC	Federation of Painting Contractors, St. Stephen's House, S.W.1.	Chancery 7583
FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1.	Whitehall 3902
FS (Eng.)	Faculty of Surveyors of England. Buckingham Palace Gdns., S.W.1.	Langham 404
GC	Gas Council. 1, Grosvenor Place, S.W.1.	Sloane 2837
GG	Georgian Group. 27, Grosvenor Place, S.W.1.	Sloane 4554
HC	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Sloane 2844
IAAS	Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1.	Whitehall 2881
ICA	Institute of Contemporary Arts. 17-18, Dover Street, Piccadilly, W.1.	Sloane 5615
ICE	Institution of Civil Engineers. Great George Street, S.W.1.	Grosvenor 6186
IEE	Institution of Electrical Engineers. Savoy Place, W.C.2.	Whitehall 4577
IES	Illuminating Engineering Society. 32, Victoria Street, S.W.1.	Temple Bar 7676
		Abbey 5215

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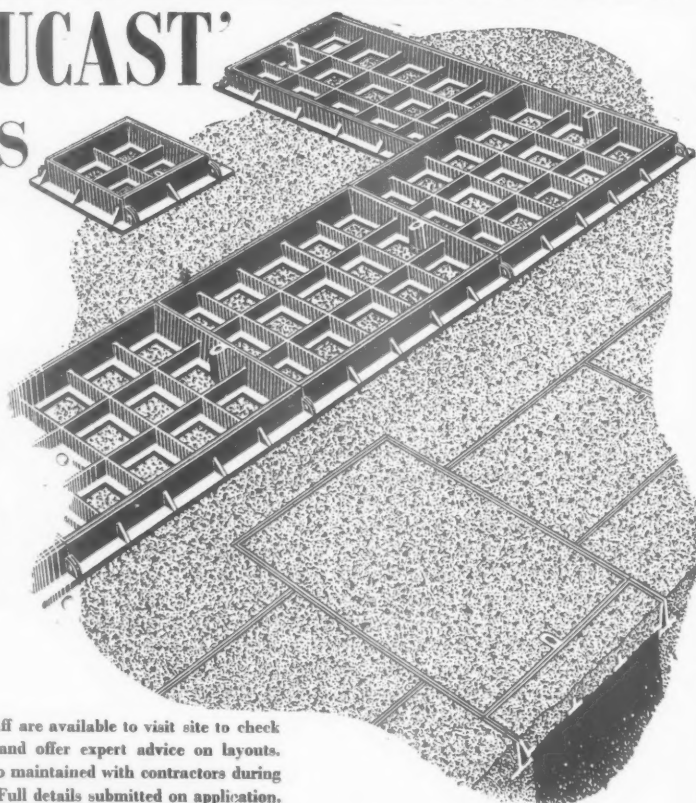
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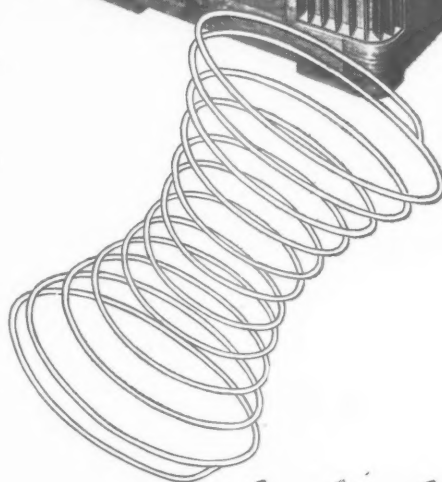
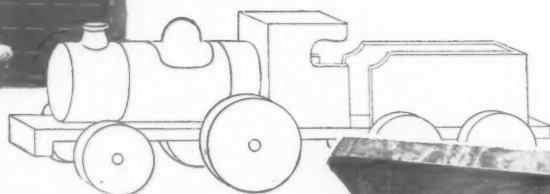
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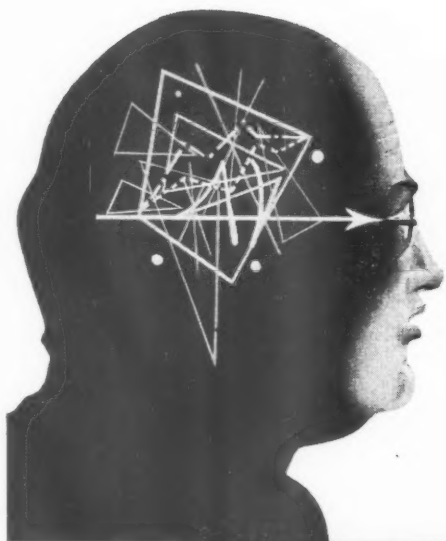
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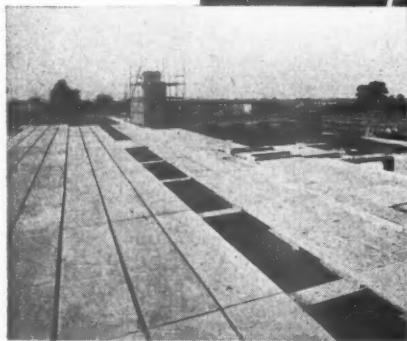
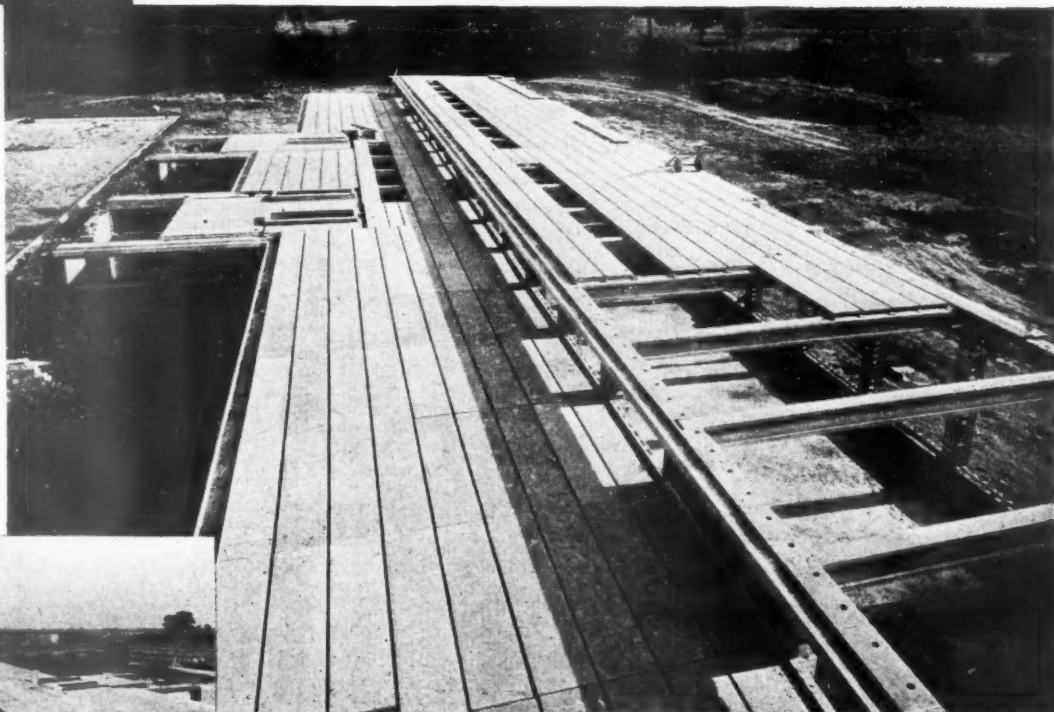
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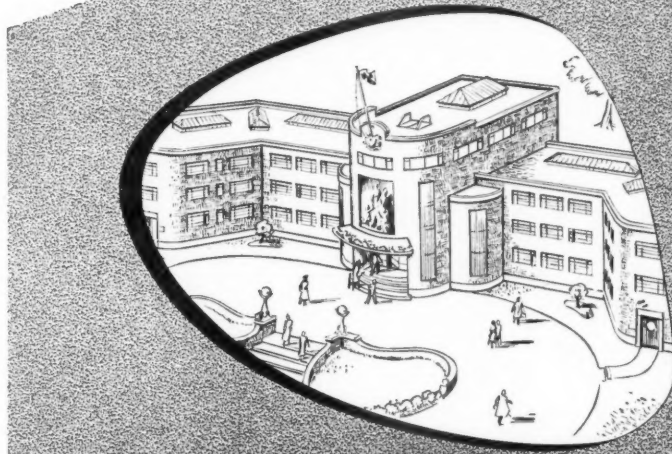
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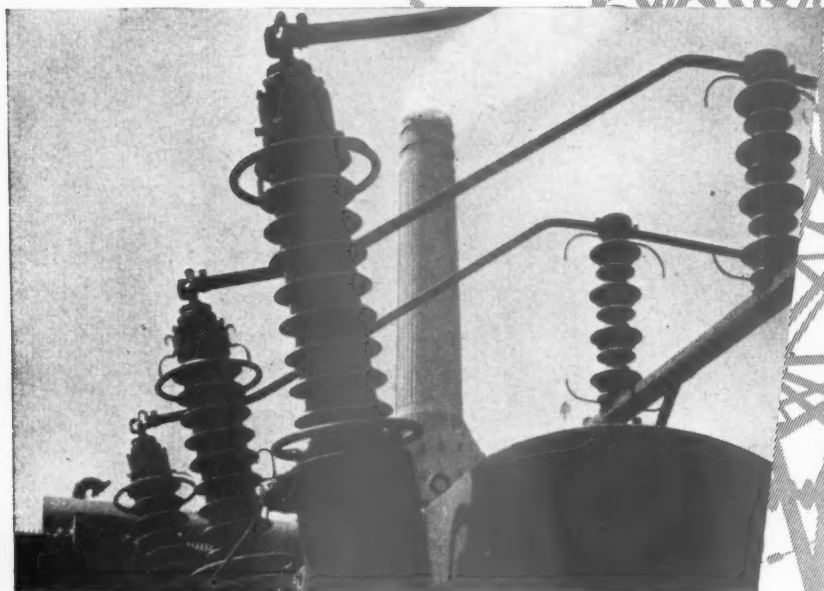
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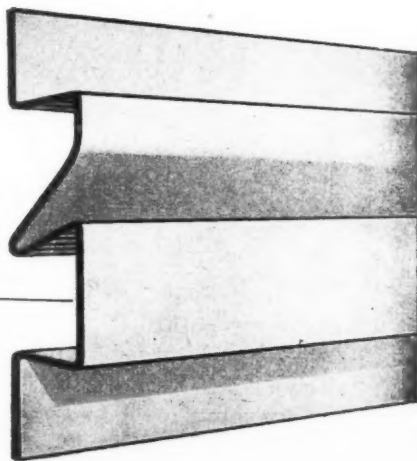
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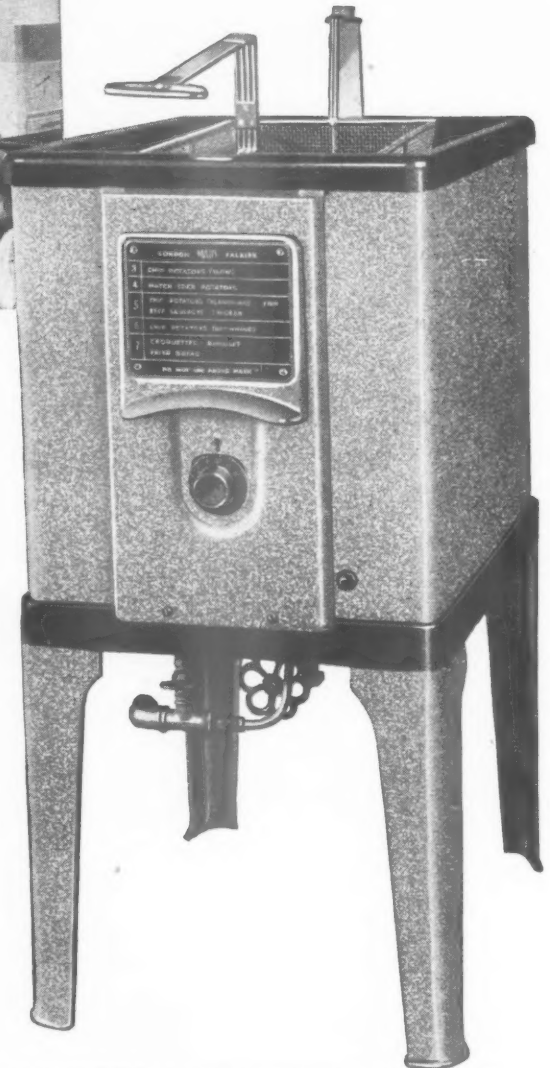
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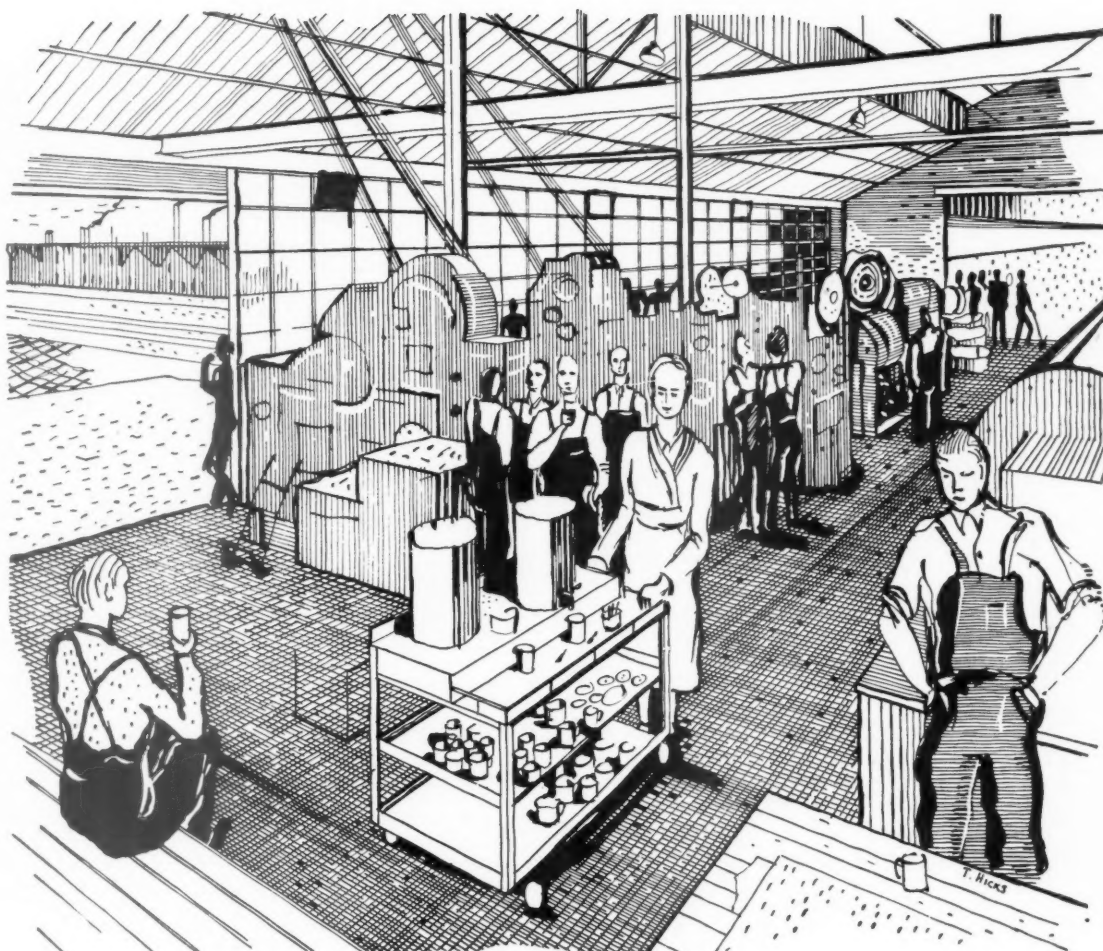
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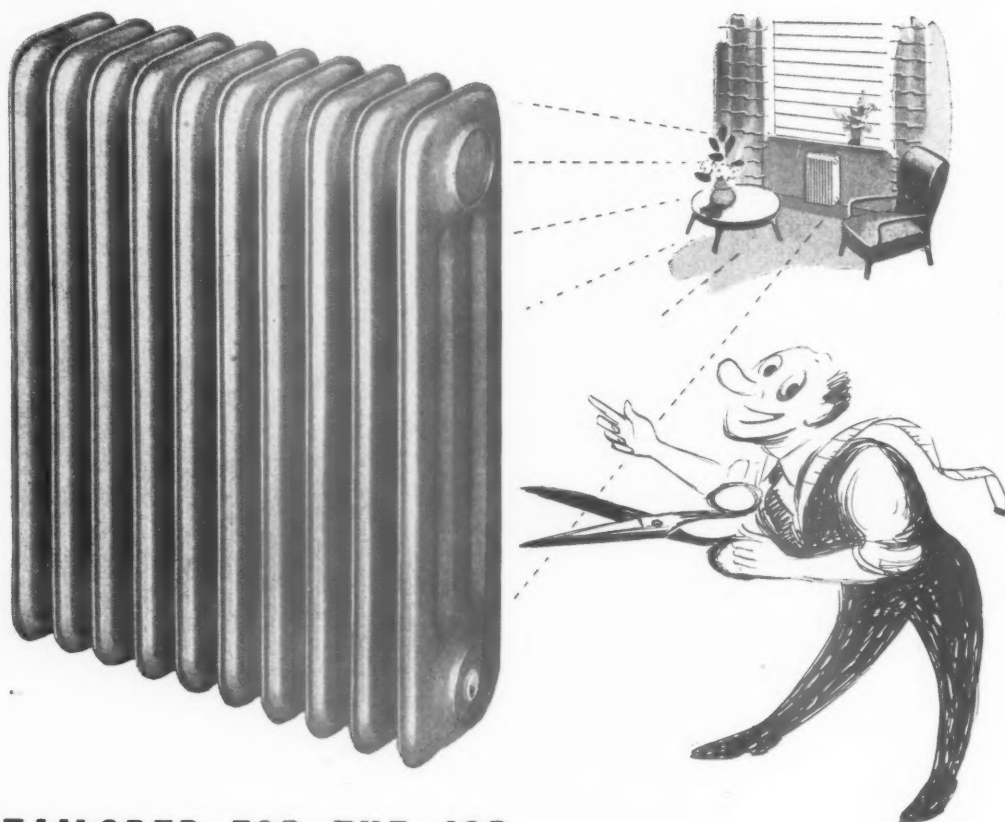
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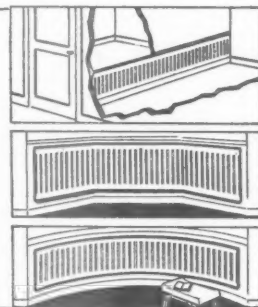
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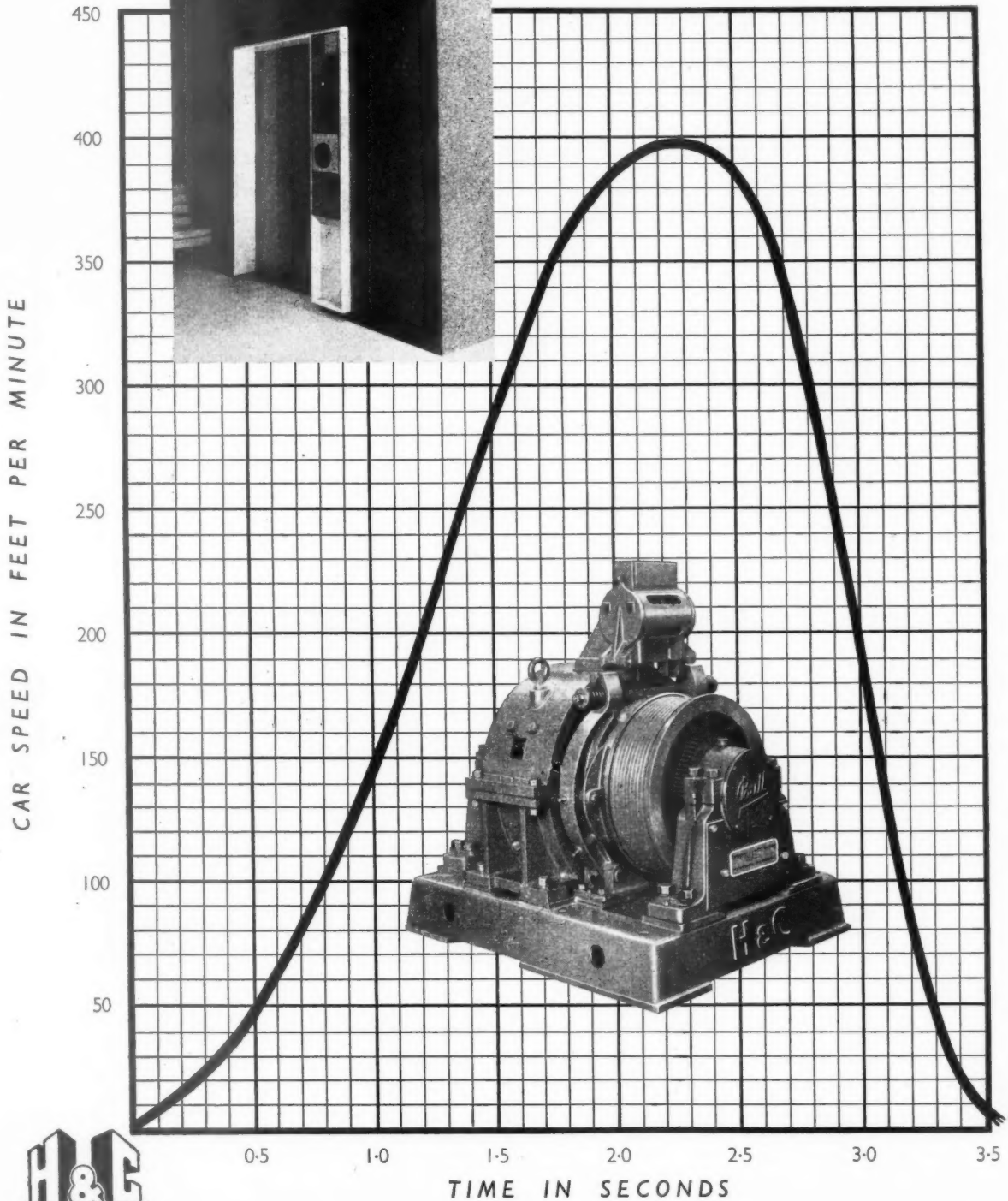


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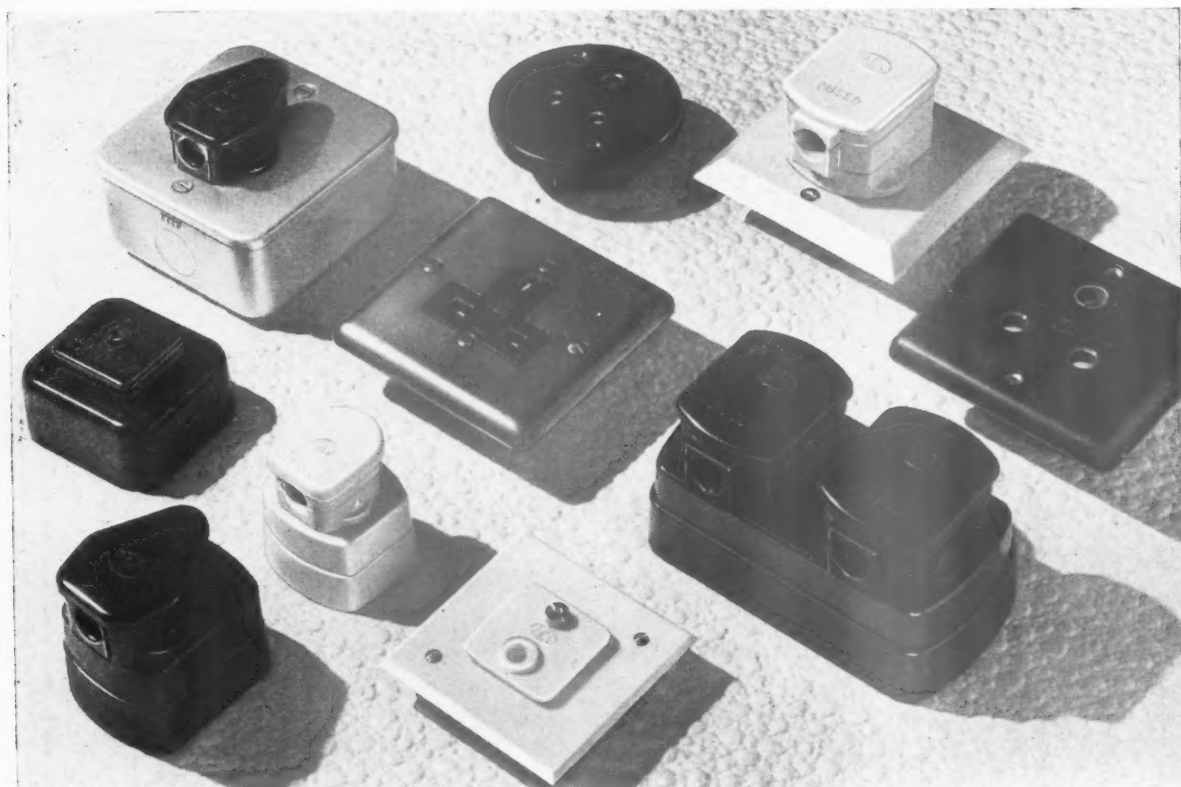


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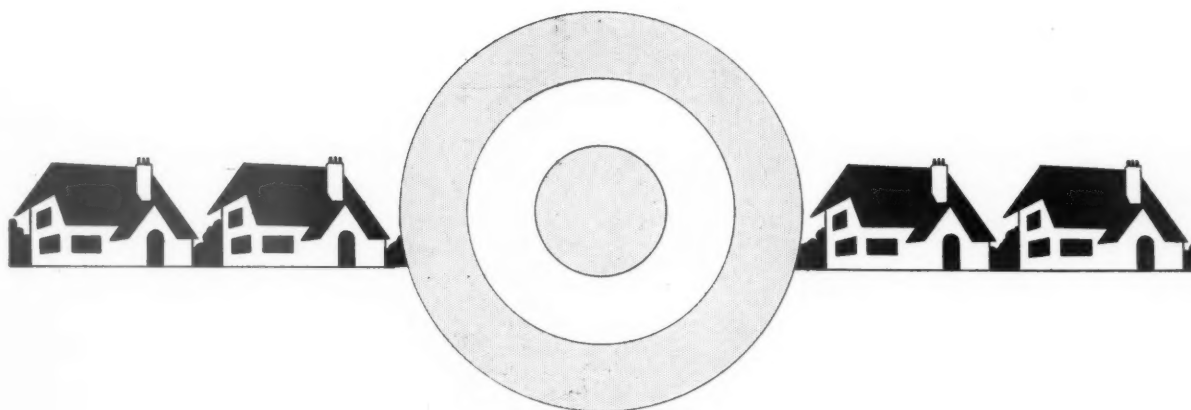
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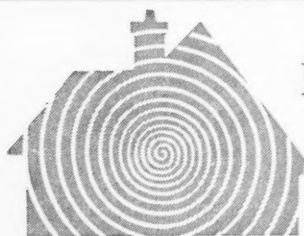


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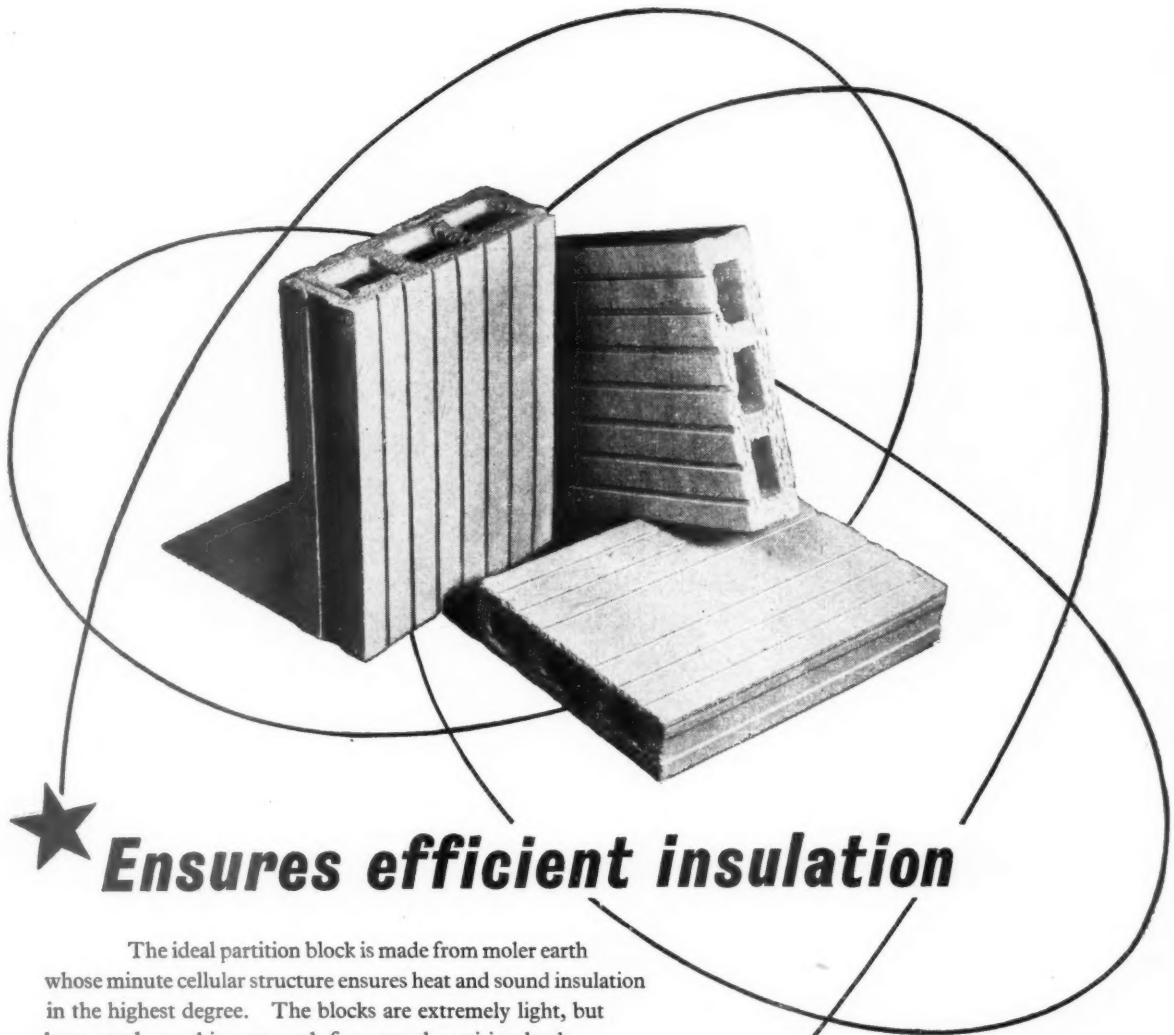
country and has been installed by many local authorities. Visits are also invited to the demonstration houses at Stanmore, where both solid fuel and gas installations may be seen in action. But please apply first for an appointment to Radiation Group Sales Limited, Lancelot Works, Wembley, Middlesex, Telephone: Wembley 6221.



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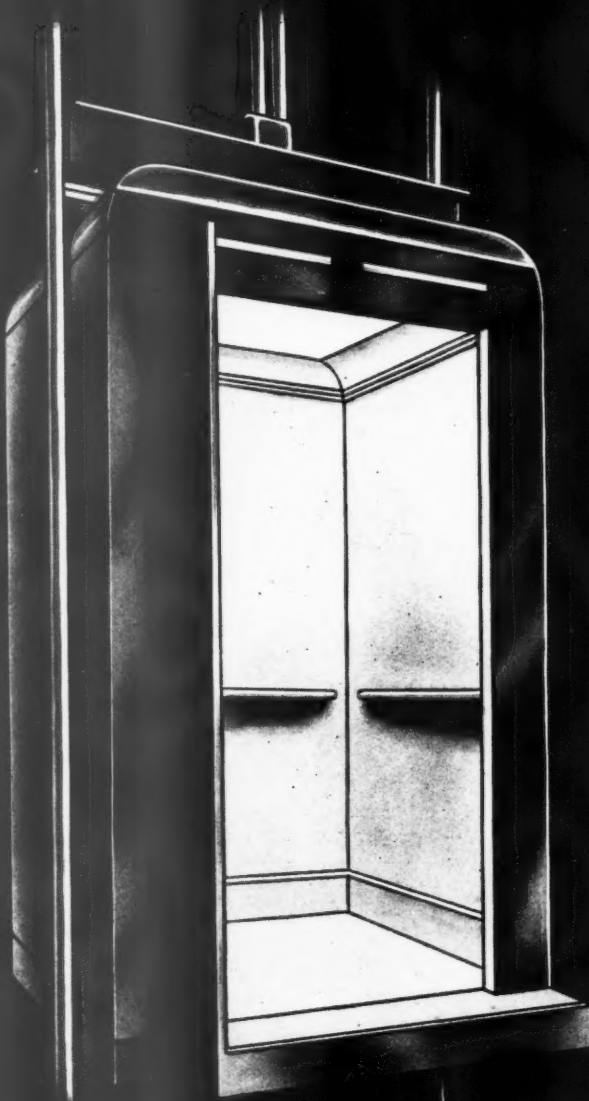
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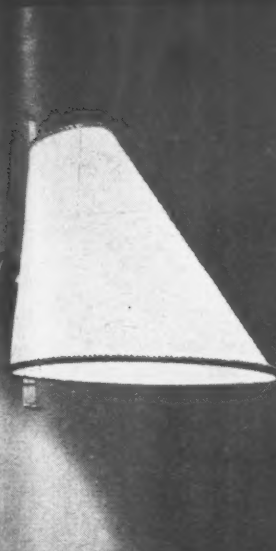
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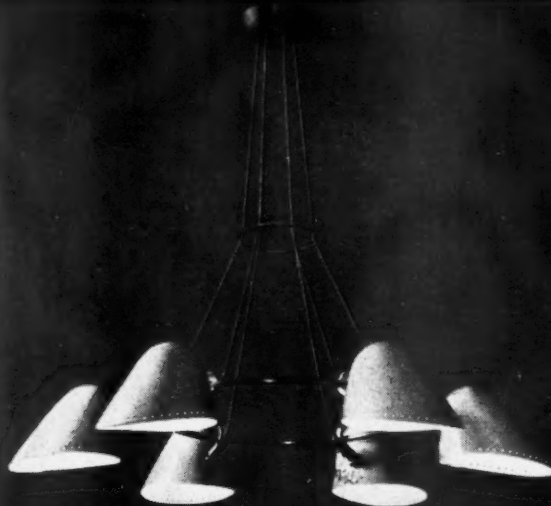
FV.3/  
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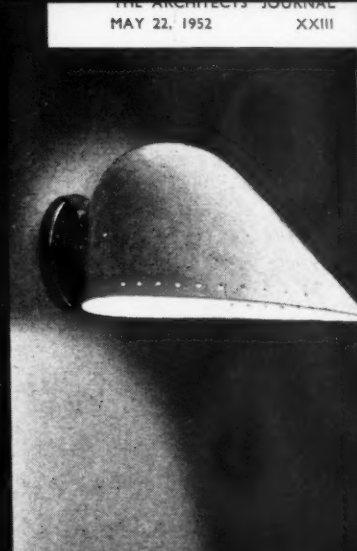




**FV.3/S BRACKET.** Fixed. Shade with turning arm. Finishes: all satin brass or satin chromium. Shade: ivory or peach plastic. Lamp: up to 75 watts.



**FV.116/R PENDANT.** Six-light ring with large metal reflectors. Finishes: reflectors and supports, off-white; remainder, satin brass; flexible cords, white. Lamps: up to 6 x 100 watts.



**FV.3/R BRACKET.** Fixed. Small metal reflector. Finishes: reflector, off-white; backplate, satin brass or satin chromium. Lamp: up to 60 watts.

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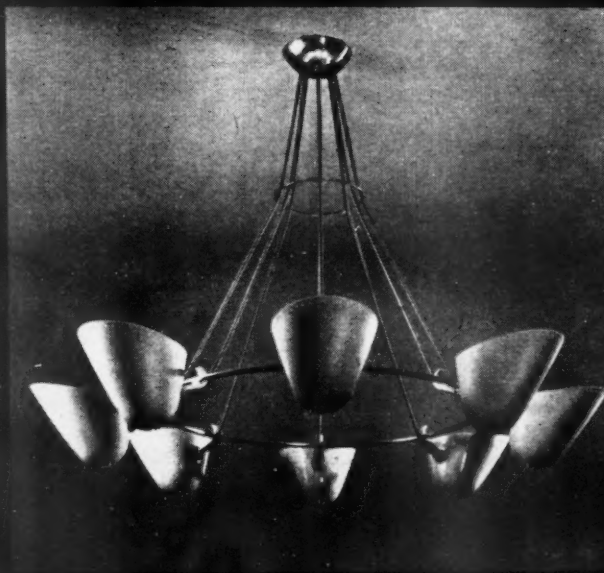
*The Lighting Centre*

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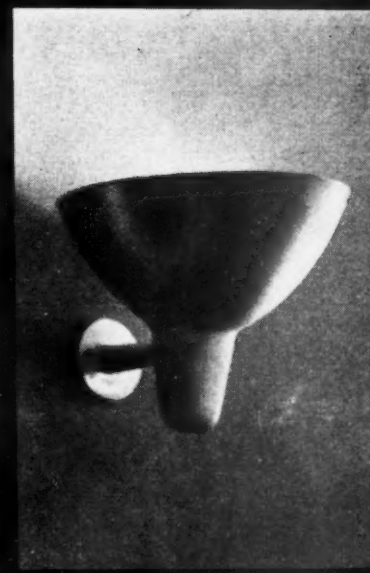
**FV.8/R TABLE LAMP.** Adjustable arm. Small metal reflector. Finishes: reflector and top of base, off-white; arm and base, satin brass or satin chromium. Wired complete with three yards visible of 3-core flexible cord and switch. Lamp: up to 60 watts.



**FV.118/R PENDANT.** Eight-light ring with large metal reflectors. Finishes: reflectors and supports, off-white; remainder, satin brass. Flexible cords, white. Lamps: up to 8 x 100 watts.



**FV.51/R BRACKET.** Adjustable metal reflector. Finish: all off-white. Lamp: up to 150 watts.





*Holy Cross Sanatorium, Shottermill, Surrey. Architect: Lt. Col. Wallace J. Gregory, F.R.I.B.A., F.R.I.C.S., M.I. Struct. E. Contractors: W. Kingshott & Co. Ltd., Haslemere.*

## *Tiles and Terrazzo*

The Operating Theatre of the Holy Cross Sanatorium is an excellent example of the combination of tiling and terrazzo carried out by the Carter Group, the tiles being made by Carter & Co., Ltd., Poole, and fixed by Carter & Co., London Ltd., the terrazzo being prepared and laid by Art Pavements & Decorations Ltd. The wall tiling is carried out in 6" x 6" bold mottles in eggshell glaze and the precast terrazzo tiles are 9" x 9" with ebonite strips at 3 ft. intervals. In the North of England and Scotland, Commercial Marble & Tiles Ltd. Newcastle-on-Tyne, carry out work in both materials.

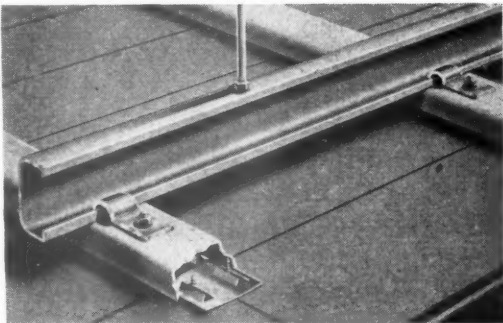
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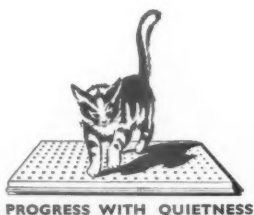
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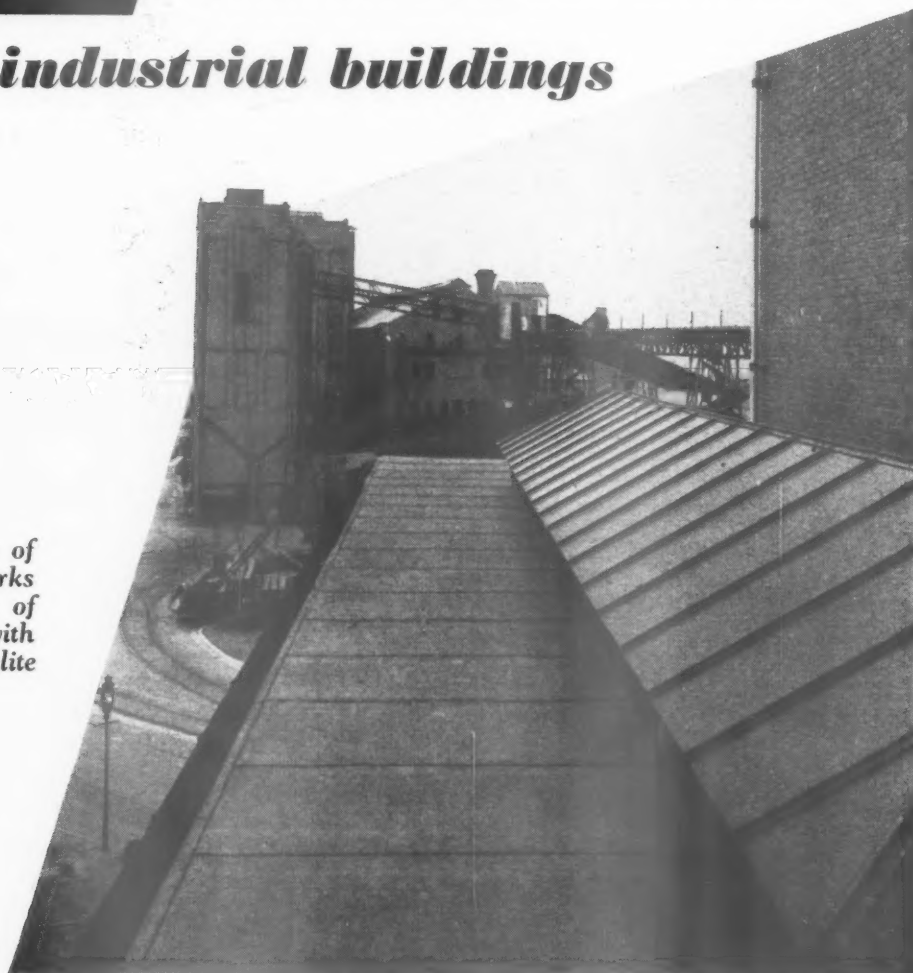
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## VERMICULITE INSULATING ROOFING SCREED

### *for industrial buildings*

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"KISOL" Vermiculite  
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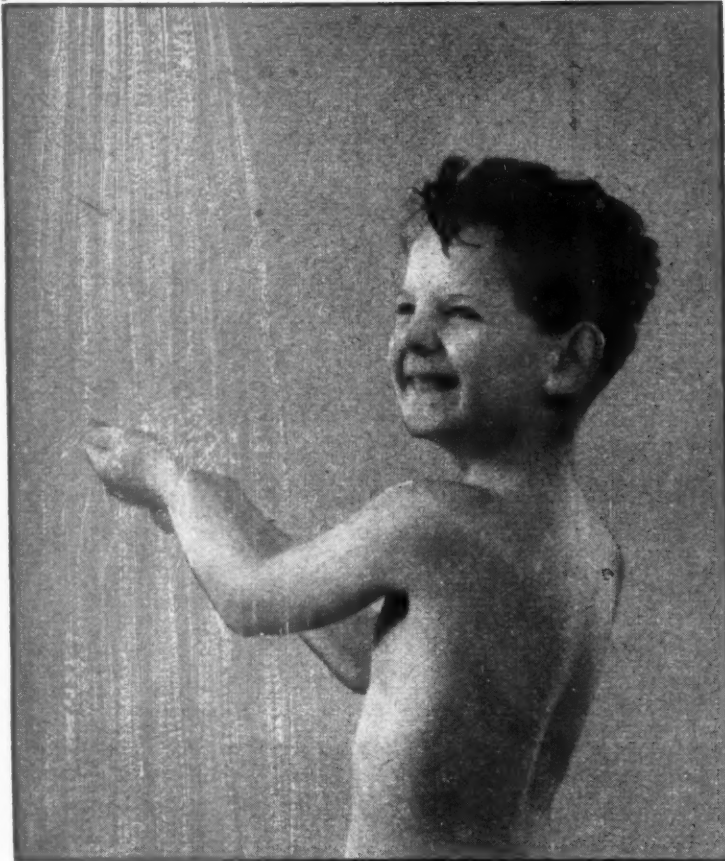


"KISOL" Vermiculite concrete is ideal for insulating roofs of factories, power stations, gas works, mills and many other industrial buildings. It can be laid to falls over all types of roof structures, and 1" gives the equivalent insulating value of 15" of ordinary concrete. Because of its extreme lightness as compared with ordinary concrete, architects and builders are finding "KISOL" Vermiculite insulating material of great advantage in building construction, especially where the minimum of weight is necessary on structures. "KISOL" is also a non-conductor of electricity, highly acid-resisting, fungus proof and odourless. Full details available on application.

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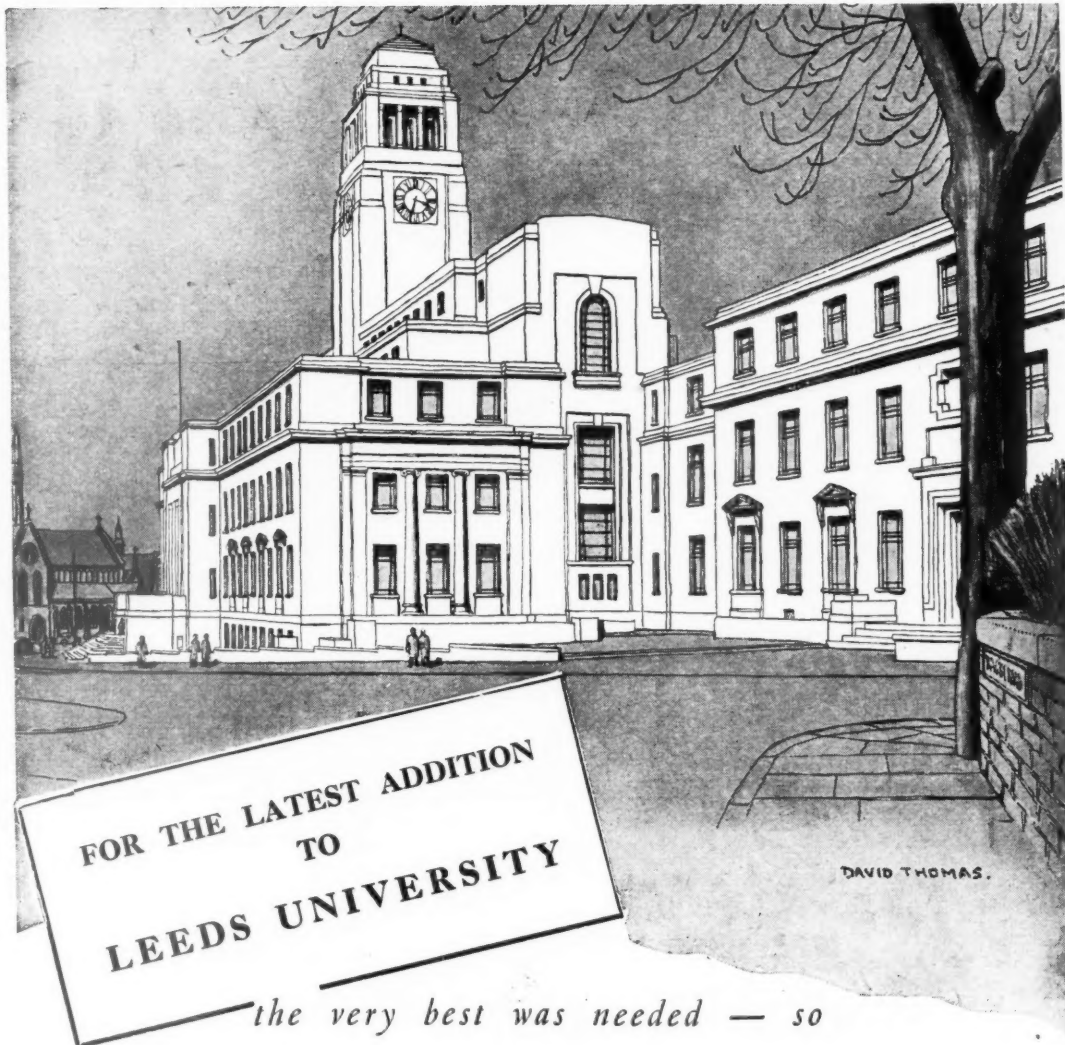
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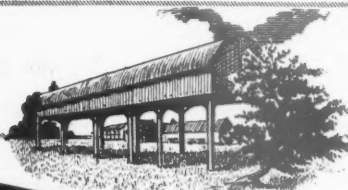
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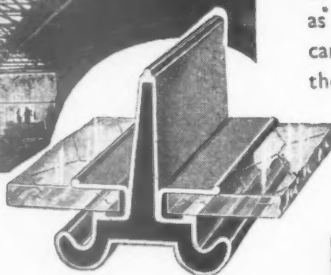
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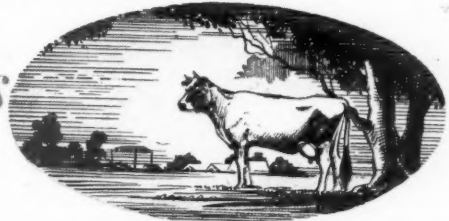
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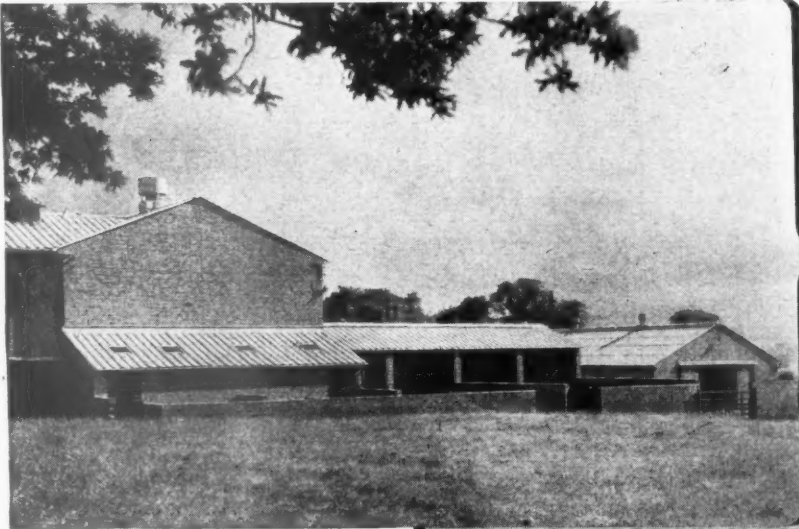
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## *for farm buildings*



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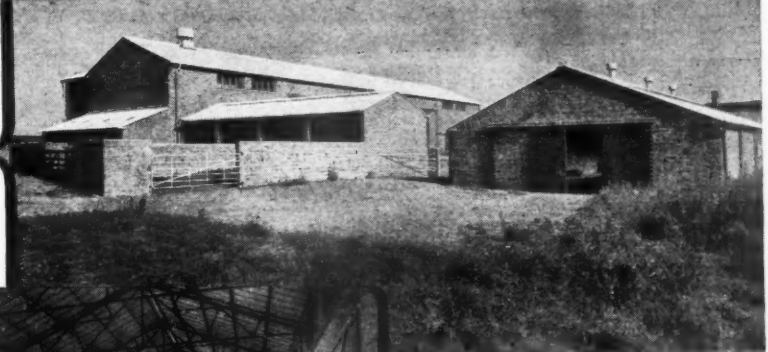
Architect : Roff Marsh,  
F.R.I.B.A., A.M.T.P.I.



*Left:* General view from the South-West showing "TURNALL" Trafford Tiles on the large barn and covered yard, "TURNALL" Combined Sheetting on the cow-house, with "EVERITE" Extractors and "EVERITE" Rainwater Gutters.

The new farm buildings replace those destroyed in 1940 by incendiary bombs. LOW MAINTENANCE COST was a primary condition for which the Architect selected:

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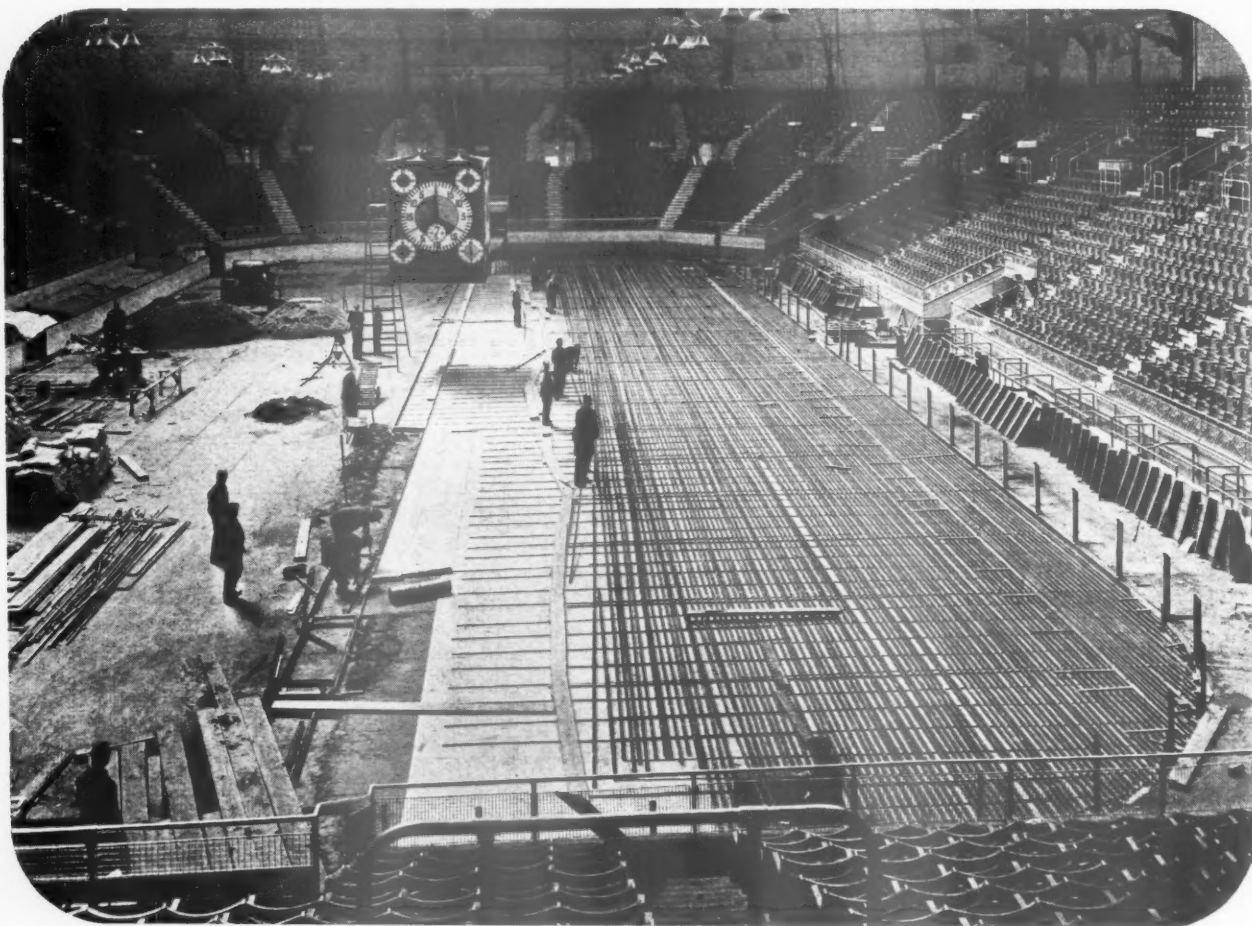


*Above:* General view from the South-East.



*Left:* Interior of the barn, reputed to be the second largest in the country, showing the very clean effect of "TURNALL" Trafford Tiles.

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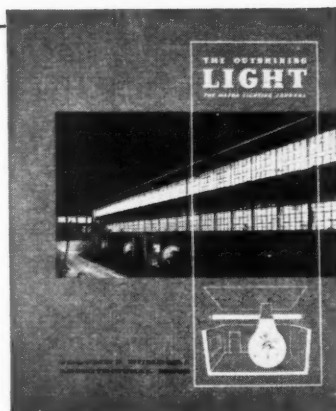
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# THE OUTSHINING LIGHT

*The Mazda Lighting Journal*

Some of the special features of the latest issue of "The Outshining Light" are listed below and we shall be very pleased to post a copy to you if you will send a postcard to The British Thomson-Houston Co. Ltd., Lamp Advertising Department, 18 Bedford Square, London, W.C.1.

*Very many architects and consulting engineers regularly make use of the BTH Lighting Advisory Service. Do not forget—it is at YOUR disposal.*



## CONTEMPORARY APPROACH

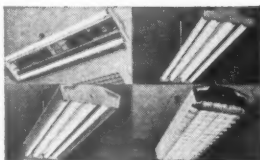
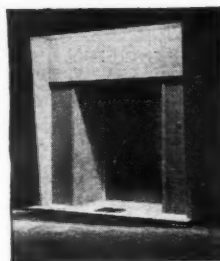
The architectural attitude to artificial illumination.

By D. DEWAR-MILLS, A.R.I.B.A.

## CORRELATING LIGHT and ARCHITECTURE

The fluorescent lighting scheme introduced at the Royal Society of London.

By J. C. WHIPP



## THE DEVELOPMENT OF FLUORESCENT FITTINGS

End-Boxes. Channel design. Auxiliary Gear. Decorative Fittings. Reflectors, etc.

By C. W. M. PHILLIPS, A.M.I.E.E.

## LIGHTING FOR CONTROL ROOMS

Power Station control-room lighting calls for close co-operation between Architect, Contractor and Building Engineer.

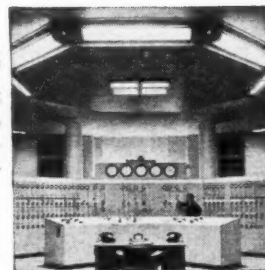
By L. H. HUBBLE, F.I.E.S.



## CORNICE LIGHTING

An alternative to the more usual lighting methods.

By P. D. FIGGIS (REG. LIGHTING ENG.I.E.S.)

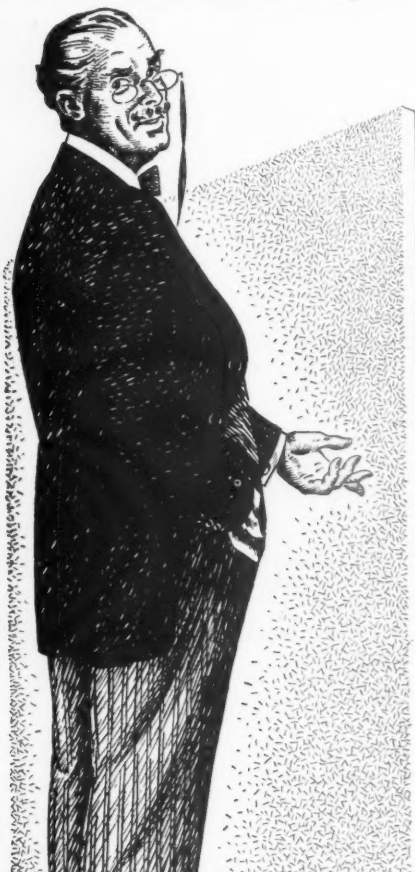


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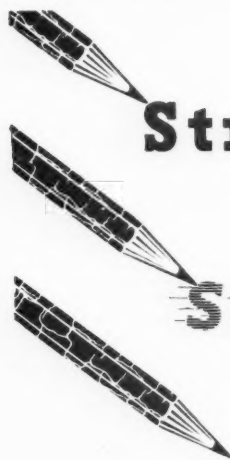


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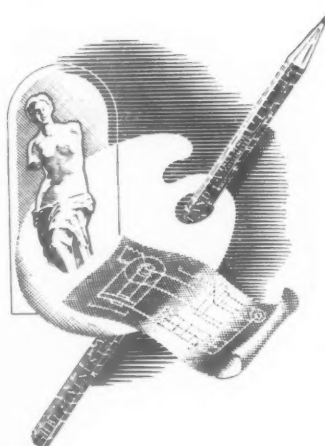
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# FRANKIPILE'S 'MAJORITY'



Melting Shop Building, Abbey Works, Port Talbot.

Photograph by courtesy of:  
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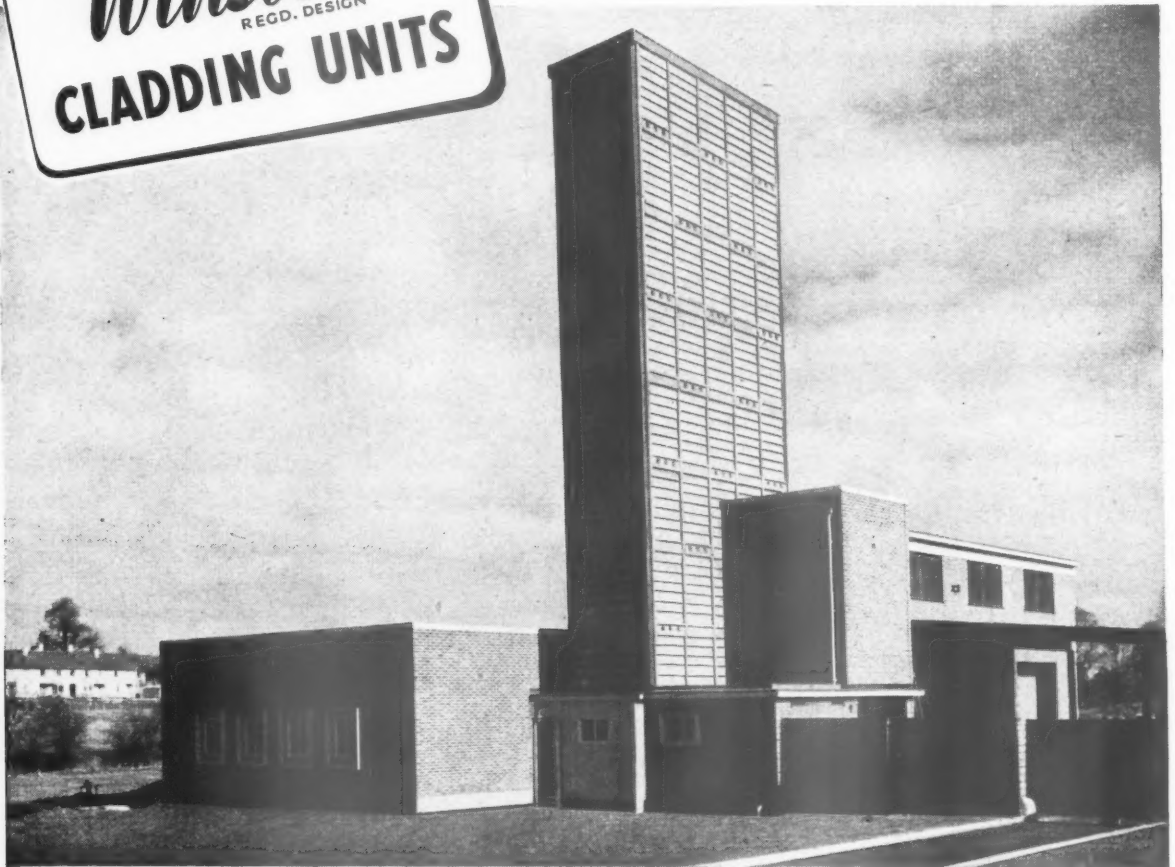
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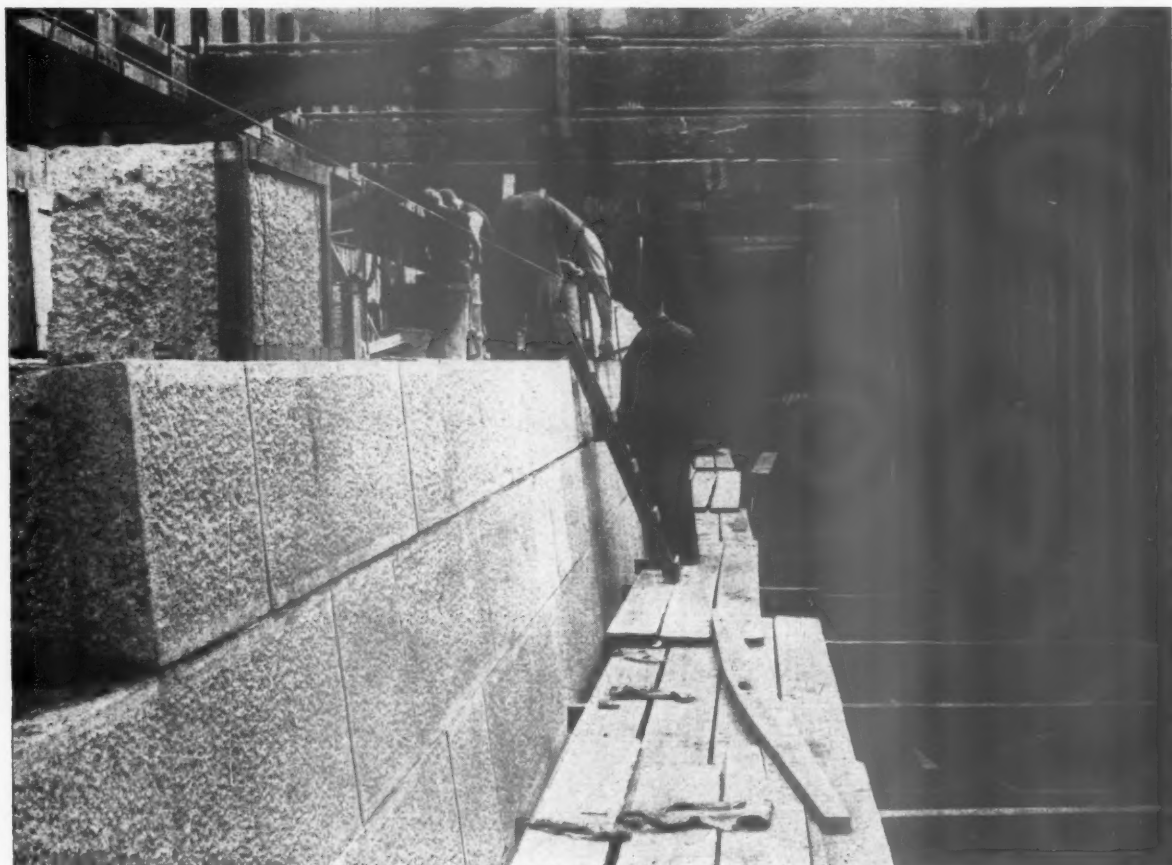
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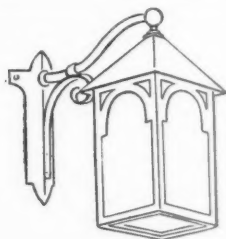
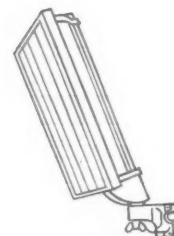
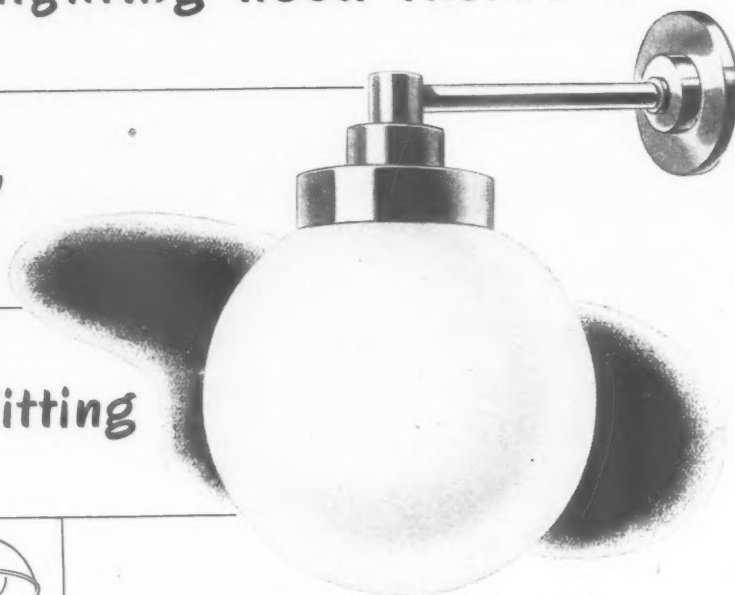
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THE ARCHITECTS' JOURNAL for May 22, 1952



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THE ARCHITECTS' JOURNAL

No. 2986 May 22, 1952 VOL 115

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#### SLUMP

Stealthily, steadily, private architectural offices are running to a stop. Here and there one meets a brighter face and knows at once that one good-sized job slipped through before the gate slammed, and is now carrying the office. Otherwise all ASTRAGAL'S acquaintances in the private enterprise division report that they have nothing to look forward to after the next six months. This at a time when the post-war bulge of students (estimated at 12,000 two years ago) is still coming from the schools and night schools.

Conditions in official offices seem on the whole to be different. Many, or most, architects' departments seem to have almost welcomed the cuts in that they reduced an impossible programme

to reasonable proportions. One notes that a fair number of vacancies are still being advertised.

A generation that has had plenty of chances to develop a taste for ironical consequences will notice that, in our good old British way, it is a Conservative Government who have thus floored the private enterprise division.

One thing which Mr. Eccles could do to help would be to announce that when more building is allowed certain (stated) proportions or quantities of steel and timber will be available or that normally all buildings will be required to keep to certain stated quantities of materials of which there is likely to be a shortage for some years.

If this were done quite a number of clients would commission working drawings for large buildings, and thus keep their architects going for a year or eighteen months. It is now hazardous for clients to do this, for they risk losing a lot of time and money or the considerable advantages which may be obtained by the use of plenty of structural steel.

#### HAMMERSMITH GIVES A LEAD

There's been a lot of talk lately about the need to bring the architect and the building worker closer together, especially during their period of training, but not a great deal seems to be done about it.

One place where a real chance exists of doing something about it is Hammersmith, as you will discover if you visit an admirable little exhibition at the Building Centre (see page 627). It

shows the work of students at the Hammersmith School of Building and Arts and Crafts, and the point about this school is that joint collaboration in training takes place between students undertaking a full-time five-year architectural course and students of the courses in the building crafts (plumbing, joinery and the rest) and in the fine arts, textile designing and the like.

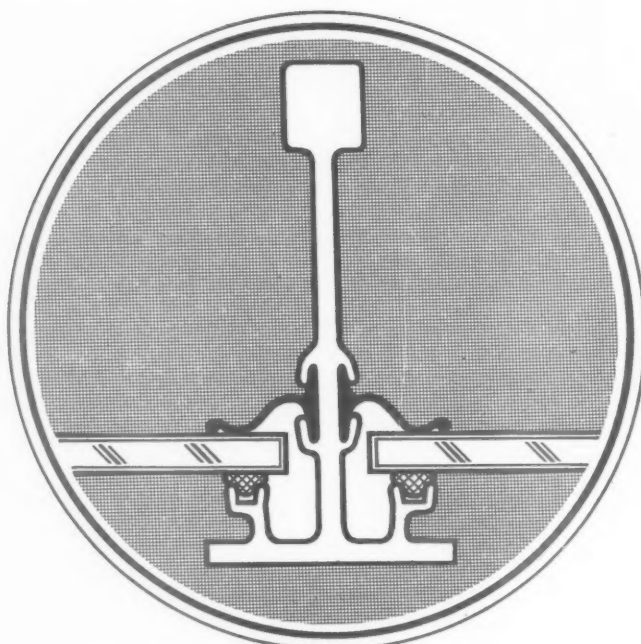
The possibilities are obvious. It seems that Mr. Price, the principal of the school, is only too eager to take advantage of them. The further he feels he can go in fostering real collaboration the greater will be the interest with which his efforts are watched both by the architectural profession and the building industry.

#### LEONARDO MBA

All the discussions we've heard lately as to whether students should be allowed to design real buildings causes me to wonder whether building apprentices should be allowed to visit the Leonardo da Vinci exhibition at the Royal Academy. It is not a direct parallel, of course, but do we want to have builders with imagination and versatility? Aren't those the attributes only of architects—together with the ability to talk and write as much nonsense (yes, yes, I know) as any profession?

It's really all very perplexing and one can only hope that Mr. Woodbine-Parrish, President of the London Master Builders' Association, knew all the possible implications when he arranged for 800 apprentices to visit the exhibition—a number which must far exceed attendances by architectural students—during this month.

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The first party of 200 apprentices was conducted round by Sir Gerald Kelly, the President of the Royal Academy, and K. R. Gilbert, of the Science Museum, who had supervised the making and display of the models. ASTRAGAL, hovering on the fringe of groups humming with presidentially provoked enthusiasm, was delighted by the precocity of the long-eared little pitchers—which confirmed his frank admiration for Mr. Woodbine-Parrish's initiative and common sense.

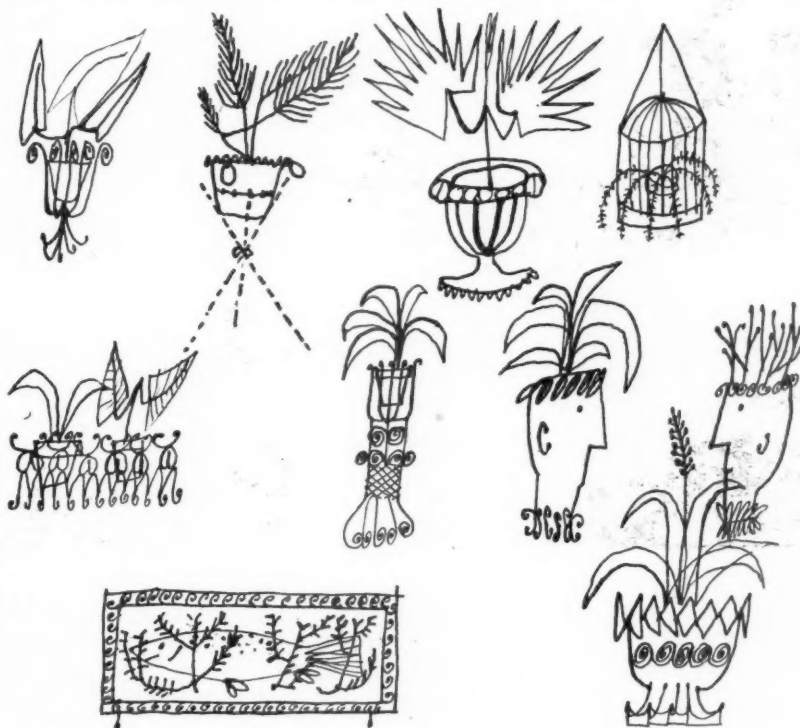
#### LINEAR ART

Readers will agree that the two styles of line drawing shown on this page are about as far apart as styles can be—though the subjects are not dissimilar. The bottom set of sketches are by Terence Cousan, the talented young designer of furniture and textiles whose work was recently exhibited at Simpson's. They cover a small sheet of notepaper and were drawn at some stage during the process of designing plant stands for the May issue of the *Architectural Review* on indoor plants. Cousan's pen, I suspect, is a flowing one—although his designs may start by being most precisely pinpointed by function, in no time at all his imagination is running riot with the results seen here. Or could it be that this little horticultural fantasy was due to designing for the *Review*—a magazine which is frequently, and falsely, associated in people's minds with Victorianism?

The other drawing is by that artist-of-parts, if you know what I mean, Gordon Cullen. This indoor plant was not illustrated in the *Review*, but will be appearing in the Architectural Press book on the same subject which will be published shortly. The technique Gordon Cullen has used is an unusual one for the subject. The structural outline of the plant has been drawn in the usual way, but the shading and modelling has been achieved by using standard engraver's tints (of small dots or parallel lines) which are printed on sheets of adhesive-backed cellophane (town planners will remember the stuff). These sheets are placed over the drawing and the unwanted portion cut away. By superimposing additional sheets Gordon Cullen has built up other tones. The clarity of the line block, or true-to-



Above, *Dracaena Deremensis*, an indoor plant drawn by Gordon Cullen for a forthcoming book on the subject to be published by the Architectural Press. Below, sketches for plant stands by Terence Cousan. See ASTRAGAL's comment on left.



scale print, which can be obtained by this technique is very effective and the result is a severe preciseness of line and pattern which is wholly delightful. The process is, in a way, the modern line drawing equivalent of eighteenth-

century Mary Delaney's *Hortis Siccus* or paper mosaic flowers.

#### LIGHTS PLEASE

Moved in admiration by the *Evening Standard's* successful campaign for a



## *Lansbury: Its Life and Time*

A visit to the Lansbury Neighbourhood Unit, Poplar, is now considerably more interesting than it was when it formed part of the "live" architecture exhibition during the Festival of Britain. Lansbury is now *really* alive, particularly in its market square, an approach to which is seen in this photograph. And the visitor to the Neighbourhood now has a chance of viewing the life of the residents and the liveliness of the local building programme from a height of fifty-five feet—from the top platform of the clock tower, which was opened last Friday, when this photograph was taken. The tower, provided by the LCC and Poplar's borough council, was designed by the architect

for the market square, Frederick Gibberd. It closes the vista from the principal road leading into the square and provides a pleasing foil to the surrounding low buildings. Its patterning expresses the nature of its structure—two interlocking reinforced concrete staircases, which start at opposite sides of the building, are placed parallel to each other and go in opposite directions, to meet at the top landing. The edges of the landings and staircase beams are exposed on the outside. The infilling is of warm red brick, and the diamond-shaped panels are covered with glass and divided by vertical railings. The staircase landings on two of the sides are left open.

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## POINTS FROM THIS ISSUE

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## The Editors

## THE TWO MACMILLANS

**L**AST November Harold Macmillan, Minister of Housing and Local Government, announced that a local housing authority would be free, if it thought fit, to allow private enterprise to build half of the new houses in its area. He also expressed his dislike of the idea of a fixed allocation of houses to each authority, and said that the more houses an authority built the more it would be allowed to build.

The first of these new policies was politically explosive and the second could be held to be impracticable if all local authorities were equally spry or energetic. Their merit was that they offered a possible way of interrupting the existing dreary trundle of housing output at ever-rising cost to the nation—at least for a number of well-placed, alert towns or other local areas. It seemed possible, for example, for authority X to increase its private enterprise housing ratio in 1952 on the strict understanding that “non-competitive” (and usually higher priced) materials would be used, that rate of construction would be speedy, and that there would be no poaching of labour from the authority’s own contracts. These things would be difficult to arrange but not impossible, since the higher prices of private enterprise houses would enable their builders to draw labour from surrounding areas and pay bonuses. If this scheme succeeded the Minister would be asked for permission to build more houses—some subsidized and some private enterprise—and so on, snowballwise.

This behaviour would be rather rough and tough and disturbing to labour distribution chances . . . but it had possibilities for a number of local authorities. Some architects and developers, therefore, began to look into the chances of “non-competitive” materials, quick construction, and moderate price. Unfortunately, the last two items appeared to have been placed beyond their grasp—by Mr. Macmillan. He still insisted that the owner-occupier of a private enterprise new house must be identified before the licence was granted, and expressed the hope that the private enterprise houses would be built in one’s and two’s by small builders.

These conditions make it impossible for private enterprise houses that represent reasonably good value for money to be built in any quantity. One hopes that the house which is built to the special requirements of an individual owner will always continue to be built, even if its floor area is only 1,500

brighter, lighter London—how unpredictable the *Standard* is in things visual; can Party politics tint its spectacles?—ASTRAGAL followed the poet to Westminster Bridge to see the city from its finest viewpoint, not while it still slept, but around its bedtime (early as cities go). For all the grandeur of the scene, there was little that could be called “bright and glittering in the smokeless air.” Only Shell-Mex House, bathed in orange light and looking more like a presentation clock than ever with its base in darkness; County Hall, like a backcloth by Motley, and some uncharted building in the City were floodlit. For the rest, the Xanaduan roofs of Whitehall Court, Somerset House, the river front of the Houses of Parliament (all Greek, sir, all Greek in Gothic clothes), and even the Festival Hall were in darkness.

Mr. Eccles has now announced his list of chosen buildings for the summer. A correct, but not very impressive, list when one remembers on various occasions a floodlit Carlton House Terrace, and the magic islands in St. James’s Park glowing in amber and green. What an opportunity we have to line the great river with fairy palaces sweeping round to the dome of St. Paul’s. Why not some of the City church steeples, as well as the Cathedral? Why not a flare path for visitors from Duke of York’s Steps to Regent’s Park, terraces and all? And why only summer? Couldn’t we brighten up winter evenings, too?

## WHAT, NO HELICOPTERS?

Watching the demolition of the Dome and the Skylon, and enchanted by the hearty crash with which bits of the Transport pavilion were felled, ASTRAGAL was a little surprised to hear Mr. Eccles say that the dome would have been impossible to re-erect. Numbering the various members for re-erection would obviously make the job of demolition take several times as long, but do light alloy members really stretch or shrink or what? Could we know more about this—in simple language—please?

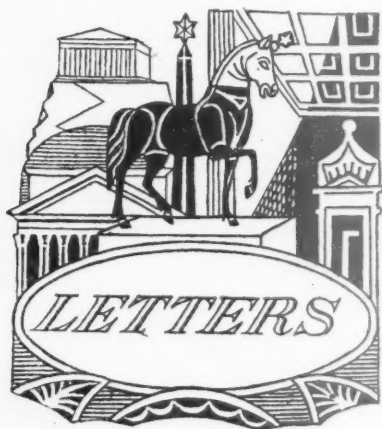
In the meantime ASTRAGAL agrees heartily with Mr. Eccles’s idea that the South Bank will be an admirable place for letting off Coronation fireworks. But let’s hope this will not be an excuse for leaving it as a bare looking patch.

ASTRAGAL

sq. ft. But the mass of those who would like a private enterprise house today do not want a tailor-made one, but only a house which is reasonably good value; and this can only be obtained by building in bulk in tens, twenties—and even hundreds. This difficulty could be surmounted by dividing those who want a private enterprise new house into those who want to build for themselves on their own plot, and those who would accept one built as part of a group. Both applicants would have to wait; the first for a licence, the second on a list under suitable public control.

In the hopes that block licences for private enterprise houses would in time be granted, some developers and their architects continued to work on group layouts which promised to be economical. The Town and Country Planning Act, 1947, does not make it easy to interest land owners in selling land for development, yet until last month there was hope that enough might be obtained to try out a scheme or two. Mr. Macmillan then made a speech in Manchester in which he said that he intended to do something about Development Charges but there was no hope of legislation being passed for at least a year.

Mr. Macmillan is a difficult man to help. He presumably wants private enterprise to build houses to the full extent compatible with fairness to the poor man. He has so far made two announcements that are likely to bring in private enterprise, and has also said, or accepted, several things calculated to freeze it right out. The JOURNAL hopes he will work over the whole problem again, taking account of all the many obstacles which now prevent a man who has the money building 25 houses for sale or to let. We particularly draw his attention to the need to try out block licences, and to announce that any financial provisions embodied in the forthcoming amendment of the 1947 Act will be retrospective to April 19 this year.



### Architects' Salaries

SIR.—In general, the undersigned wish to endorse the contents of the letter from members of the Coventry City Architect's Department published in the JOURNAL of April 10.

*51 Members of County Architects'  
Office, Wakefield*

*J. B. E. Moreton, A.R.I.B.A.*

*Guy B. Oddie,*

Senior Lecturer in Building Technique, College of Art and Crafts, Birmingham.

The reply from L. C. Howitt in your issue of May 1 clarified the official position, but offered no solution to the problem other than to emphasize the efforts made by the existing committees of the RIBA. To ignore the financial status of the profession is surely unwise and unfair to the majority of architects, whether they be officially or privately employed. A clear example of the present situation is in the letter from "Borough Architect" in the same issue who is unwittingly lowering the status of the profession by carrying the responsibilities he lists for so small a salary. Apparently, the RIBA raises no objection to this "undercutting." Undoubtedly similar cases are

existing throughout Britain, resulting in a reduction in status of the architect in the eyes of the community.

Reference to the RIBA as a learned society is recognized, but it is submitted that if the present constitution of the RIBA cannot look after the financial status of the profession then steps should rapidly be taken to provide a suitable organization, such as an Architects' Guild, not necessarily divorced from the RIBA but with fair representation of all classes of membership on Council and all committees formulating its policy.

The present predominance of fellowship members in all committees of the RIBA and Affiliated Societies is not reflected in the membership totals and, therefore, cannot be fairly representative of the interests of the profession. It is also unfair to salaried members, as it is generally recognized to be much more difficult for a salaried architect to be elected as a fellow than for an architect in private practice, despite the degrees of responsibility involved.

It is, therefore, submitted that consideration be given to the amending of the present constitution of the RIBA and Affiliated Societies to ensure that fair representation is provided for salaried members of the profession by making membership of the Council and committees equally open to all qualified members of the Institute.

51 MEMBERS OF COUNTY ARCHITECTS'  
OFFICE, WAKEFIELD.

SIR.—L. C. Howitt, in his contribution to the current correspondence on official architects' salaries, invited a remedy when he wrote, "we have not yet either the legal or the general public acceptance of the indispensability of our art as is enjoyed by the medical profession."

Mr. Everyman is a "lay" architect should the occasion arise, and it does arise when we meet him as a client or worse, as a member of an interviewing committee. It is so easy to "plan" a house; we live in one and most of us have lived in one for as long as we can remember. Mrs. Everyman knows exactly how she would design her kitchen given the opportunity. We criticise the place we work in, eat in, shop in, play in—design is easy, we have only to employ a builder to put it into bricks and mortar if we could obtain a licence. An architect therefore is a luxury. He will certainly embellish our simple and neat arrangement with costly decoration and useless architectural character... we have heard it all so often.

But what of medicine—Everyman is not a layman here, he will proffer a diagnosis to his fellows but medicine is a matter of life and death or something unpleasant in between. He will insist on qualified medical attention even though sometimes fearfully. Fear is the medical man's greatest ally—he will have sufficient "clients" to assure his professional demand.

Law, or the interpretation of it, is also something incomprehensible to the average man. His civil life is controlled by Acts of Parliament. He cannot buy or sell a piece of land without a legal conveyance, out of which the Government obtains a revenue. The safest application of law necessitates the employment of a member of the legal profession. Again the demand is great.

In recent years the architect has received more publicity than before, and this is a good thing for our profession but not enough. The remedy then lies in making the architect as indispensable as the lawyer and this state could be achieved by an Act of Parliament forbidding the erection of any building without the employment of an architect. In this present necessarily controlled period of building the demand for architects cannot appreciably increase, but what of the future? Only when the demand is great can we in turn command a salary

and respect comparable with that enjoyed by the medical and legal professions. The architectural historian at least would not be able to blame the post-war jerry builder.

Bristol.

J. B. E. MORETON.

## Practical Work for Students

SIR,—Dr. Walter Gropius, in a recent reference to the scheme whereby Birmingham students design buildings which are actually carried out, has called it "valuable experience" and has commented on "the necessity of such activities for the greater advantage of the profession as a whole." But since other persons have cast doubts on its educational value, perhaps you will allow me to say why we at Birmingham agree with Dr. Gropius.

One of the charges made against the Schools of Architecture is that students' drawings and design are unrealistic. It is a fair charge, and why?—because the drawing is the end of the student's creative process, made only for himself or for his teacher, with all their mental reservations, to interpret.

When the drawing is the end product the student fails to realize that the form he has drawn to fulfil a particular function must be modified so as to take account of the material it is made of and of the skill of the man who makes it; that it must be further modified according to how accurately it can be made—according to its tolerance; further modified to suit its place in the sequence of assembly, and further modified by the time and money available for it. He fails to realize these things because for him the only materials he need contend with are pencil and paper, the only skill that of the draughtsman, the only tolerance that of a pencil point, the only limitation of assembly that which makes it impossible to draw more than one line at a time, and the only cost that of his own labours.

The student can be told these things, of course, and told them he no doubt is, repeatedly. But they mean little, for the student, like everyone else, is only convinced by experience. And the student's only experience is that of drawing. So the drawing is unrealistic because the student fails to learn these things, and he fails to learn them because he can only learn from what he draws.

Can a student learn some other way? He learns of course, in the lab. and in the workshop, but here he tends to see things out of their context. He visits building sites, but here, valuable though the experience is, he only sees the fruits of another's invention, not his own. He can work in an office, but here again he can only learn a part: he can watch and listen, but he cannot follow the processes of the designer's mind.

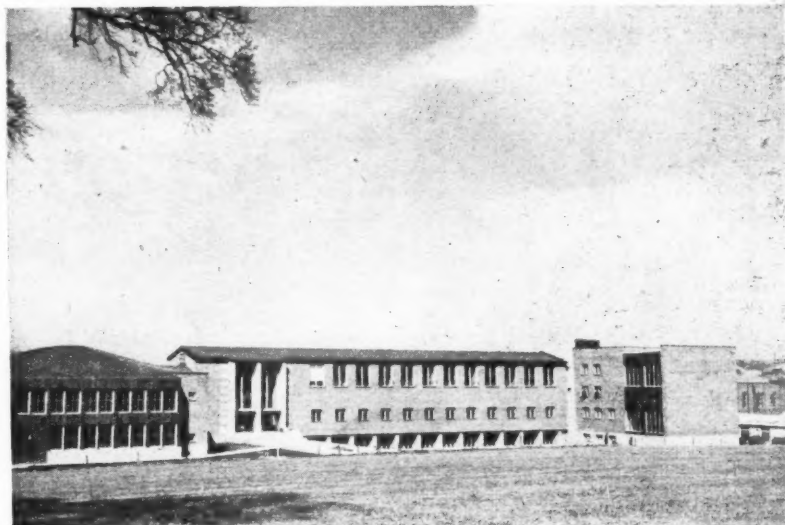
At Birmingham then, the student now has the chance to design, not merely a drawing, but a building. He designs it under the constant supervision of teachers who are not only experienced architects, but who are familiar with the student's outlook, difficulties and stage of development, and who are undistracted by the thousand and one rival claims of the ordinary office.

It would be a pity if the attention paid to this project were to give the impression that it exclusively occupies the whole energies of the Birmingham student. The Birmingham training as a whole includes many other, less spectacular educational devices, but by integrating this particular method with the rest we hope to find a way of providing the student with a fuller understanding not only of building technique but of the nature of architecture itself.

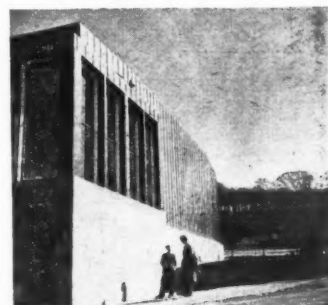
Birmingham.

GUY B. ODDIE.

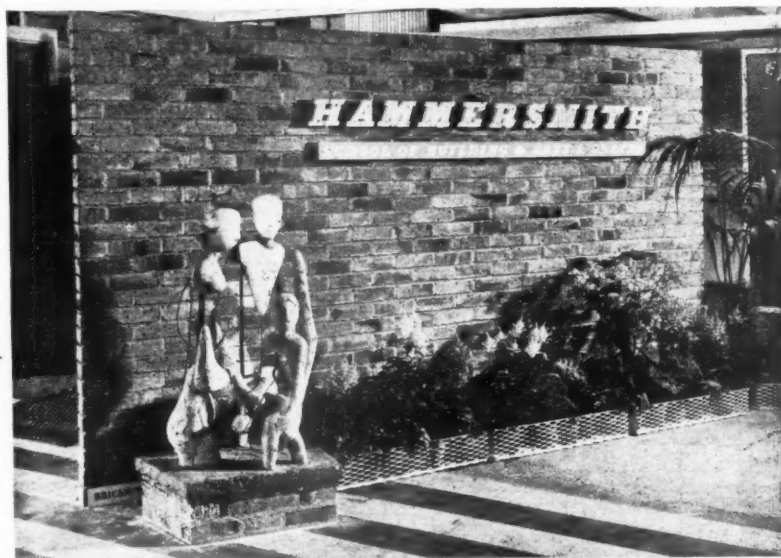
## EXTENSION TO DURHAM UNIVERSITY



*The West Building and Appleby Auditorium were opened last week and were designed by Professor J. S. Allen. The consulting engineers are Oscar Faber and Partners. The West Building provides permanent accommodation for the mathematics and geography departments and 5 lecture rooms. Above, from south; right, north-west elevation of auditorium.*



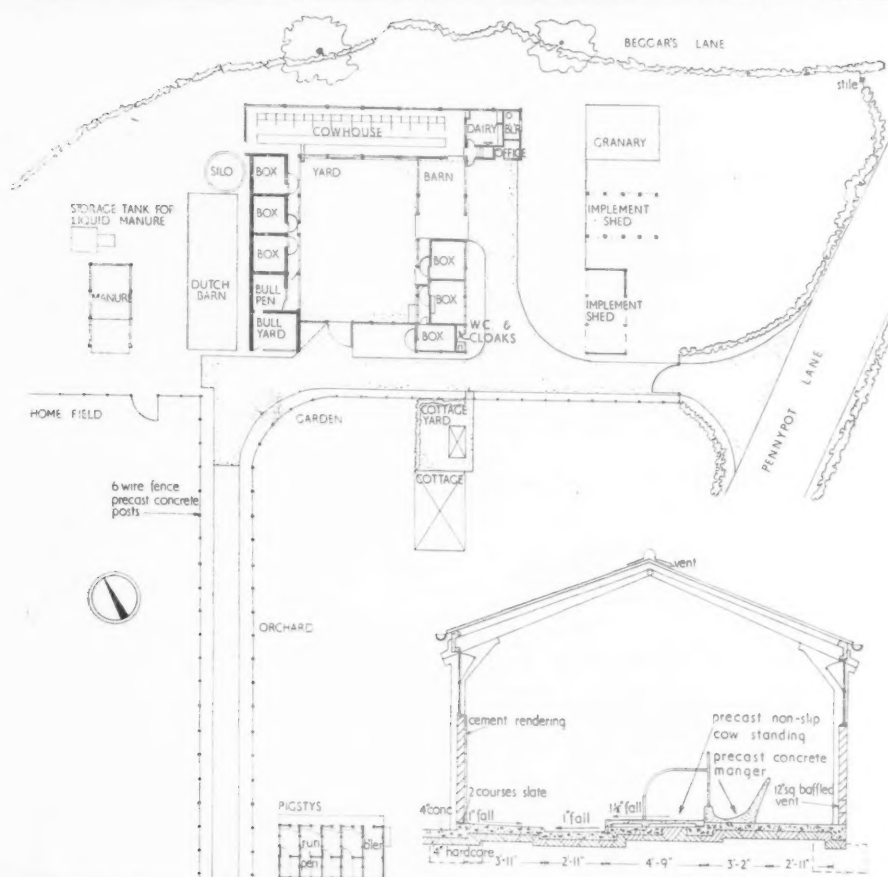
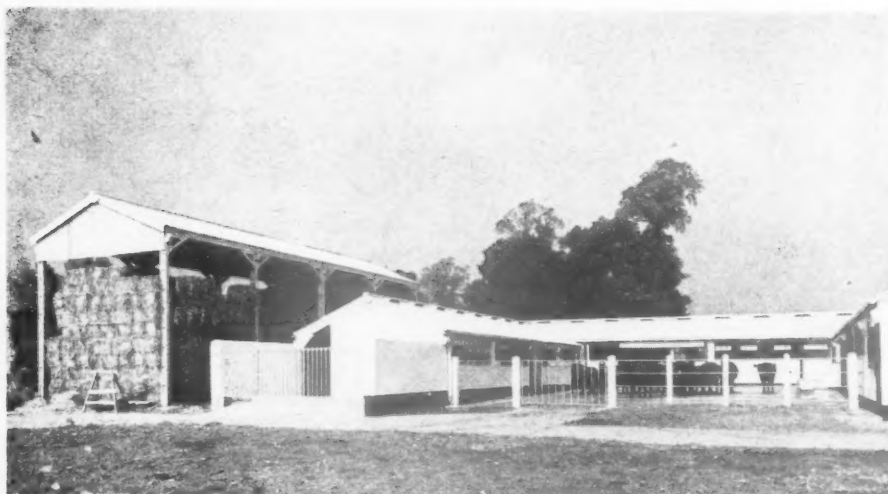
## STUDENTS' EXHIBITION AT BUILDING CENTRE



*As announced in our last issue, the Hammersmith School of Building and Arts and Crafts is holding an exhibition of students' work at the Building Centre. The exhibition begins by illustrating the work of the school as a whole, which is followed by a display of work from architectural students supplemented with exhibits from the craft and art courses. The exhibition will close on Saturday, May 24.*



## FARM GROUP AND FARMHOUSE IN PENNYPOT



**Block plan and cross section through cowhouse** [Scale :  $\frac{1}{4}$ " = 1' 0" and  $\frac{1}{8}$ " = 1' 0"]

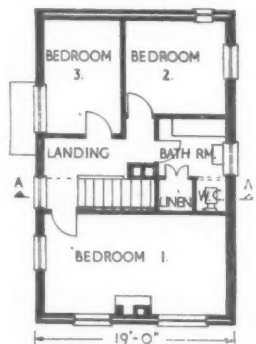
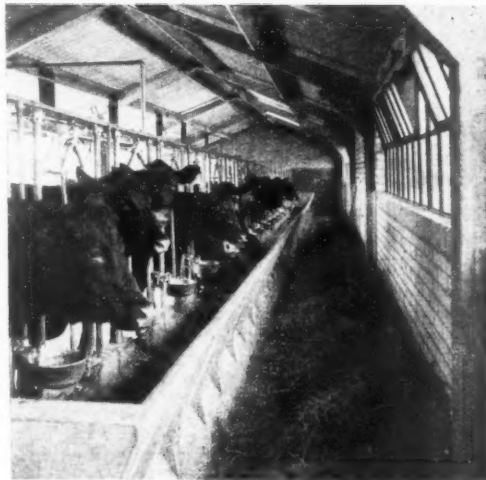
The site for this new farm group for a herd of 20 milking cows was chosen for its south aspect and good natural drainage, and its central position on the farm which limits the distance cows in milk have to walk to the farthest field. The E-shaped plan, designed by John Harris, was adopted to enable the buildings to be divided by the centre arm into clean and dirty areas for stock and vehicles. The plan also lends itself to the formation of two yards, open only to the south, one for stock and one for vehicles. The central arm of the plan is continued on the south side of the access road by the farmhouse. The cowhouse also contains the dairy block, and the farm office is placed to have a view of the main entrance, barn and milk-loading bays. The farm buildings are constructed of precast concrete frames, at 15-ft. centres, purlins and wall plates. Concrete is also used for floors, yards and roads, and cow standings are precast concrete hollow section with a non-slip finish. All boxes and stock pens have 2-in. hollow block sub-floors with damp-proof membrane. Walls are of sand lime bricks, painted



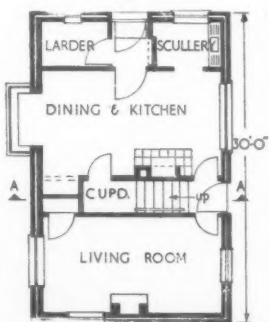
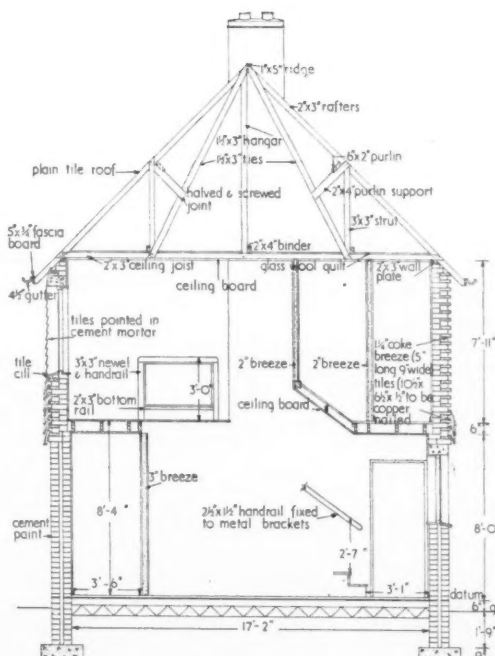


## LANE, CHOBHAM, SURREY

externally with white cement paint. Waste water from the pressure milk cooler is stored in tanks above the dairy and is used for drinking bowls and troughs and for washing down. A dual system of drainage is provided for the cowhouse, one for washing down water and one for liquid manure. Opposite: the top photograph is a general view of the farm group, looking north; bottom left, looking north-east with the farmhouse on the right; bottom right, the south and east facades of the farmhouse. On this page, top; view from the main gate; right the cowhouse, which is equipped with an automatic milking plant. General contractor, C. H. Auscomb. Sub-contractors, page 650.



First floor plan

Ground floor plan of farmhouse  
[Scale:  $\frac{1}{8}'' = 1' 0''$ ]Section A-A [Scale:  $\frac{1}{8}'' = 1' 0''$ ]

## RIBA

*Maintenance Scholarships  
To Be Given This Year*

In July, 1952, the RIBA will award the following scholarships:

A Howe Green 4th and 5th year maintenance scholarship of £40; a RIBA 4th and 5th year maintenance scholarship of £60; a Houston maintenance scholarship of a maximum value of £125 per annum.

The scholarships are intended to enable promising students, whose parents or guardians have not the necessary means, to attend approved courses at the schools of architecture recognized for exemption from the RIBA examinations. Students already taking such a course are also eligible to apply for a scholarship. The scholarships are available only for students who are British subjects by birth or naturalization. The value of each scholarship, up to the limits stated, will depend on the financial circumstances of the parents or guardians of the candidate.

Applications must be made to the Secretary to the Board of Architectural Education, RIBA, 66, Portland Place, London, W.1. The closing date for the receipt of applications, is June 30, 1952.

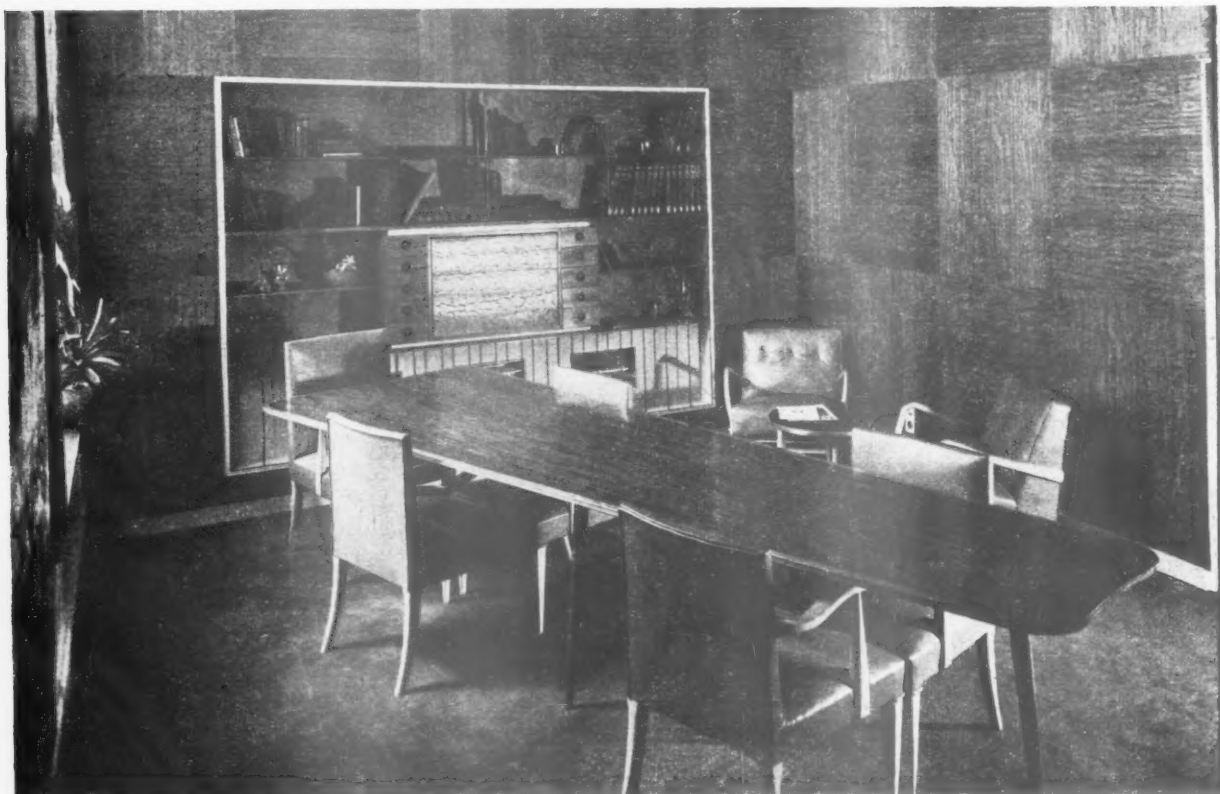
## TUC

*Arthur Deakin Criticizes  
Building Industry*

Arthur Deakin, general secretary of the Transport and General Workers' Union and chairman of the TUC general council, said at the conference of the National Association of Operative Plasterers in London last week that he believed that the building industry could be so organized as to give a sense of security to the worker and make an increase in production that would enable the country to get all the houses, hospitals, schools, and factories required. The organization of the building trade reflected no great credit on anybody when one considered that of a labour force of 1,250,000 only 600,000 at the most were organized workers.

There was in the industry a backlog of tradition of bad conditions which did not make for the productivity so essential today. We were again faced with a reduction in quality of the homes to be provided under present Government policy. To set out on a policy of eleven homes for the price of ten simply meant that we were to produce the type of property which in 30 years would be slum property.

## NEW LONDON BOARDROOM AND REST ROOM



A new boardroom and rest room have been designed recently by F. M. Gross, for City Display, Ltd. The photograph above gives a general view of the boardroom. The walls are panelled with mahogany and in the recess at the far end are bookshelves and a cocktail cabinet. The table is tapered towards the foot. Below

left, is another view showing the enlarged photograph-mural of London Bridge and the river, which occupies most of one wall. The ceiling panels are in sycamore, divided with recessed and gilded strips. Plain lamp sockets are placed at intersecting points. The photograph below shows a corner of the rest room, divided on one side from the staircase by a low parapet. A strip of black plate-glass is recessed in the wooden framework at the top of parapet to support pots of exotic flowers. The vertical metal strips are in satin silver. The chairs and settee were specially designed and covered with blue-grey and maroon woven fabrics. The contractors were City Display, Ltd.



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## SPAB

*Course on Repair Work*

The Society for the Protection of Ancient Buildings is again holding a week's course on the repair of ancient buildings to enable practising architects and the staff of local authorities who are responsible for old buildings to obtain knowledge of the Society's principles and methods of repair.

The course held last year aroused so much interest, that in response to the demand it has been decided to repeat the experiment. Consequently, arrangements are being made for a course to be held from June 16 to 21. As before, this will consist of lectures, discussions and visits to cover the many important aspects of repair work.

The Society feels it is essential that the principles underlying the sympathetic and conservative treatment of old buildings should be more widely understood, particularly when there is so much work of this nature to be done and so little money available with which to do it.

The Society invites those who are interested to apply for further details to the Secretary, The Society for the Protection of Ancient Buildings, 55, Great Ormond Street, W.C.1.

## WINDMILLS

*Preservation Orders in Kent*

Kent County Council has made orders for the preservation of six windmills in the following places: Meopham, Herne, Barham, Charing, Goodnestone, and Keston.

Altogether, action has now been taken by the Council to protect eleven Kent windmills by means of preservation orders. Last month the Council made appropriate orders in the case of windmills at Cranbrook, Willesborough, West Kingsdown, Ash, and Wittersham. All these orders have been submitted to the Minister of Housing and Local Government for confirmation.

By making these orders, the Council does not guarantee that the windmills will be preserved for all time; but the orders have a protective value because, if confirmed by the Minister, no demolition, alteration or extension of the mills could be made without reference to the Council as the local planning authority.

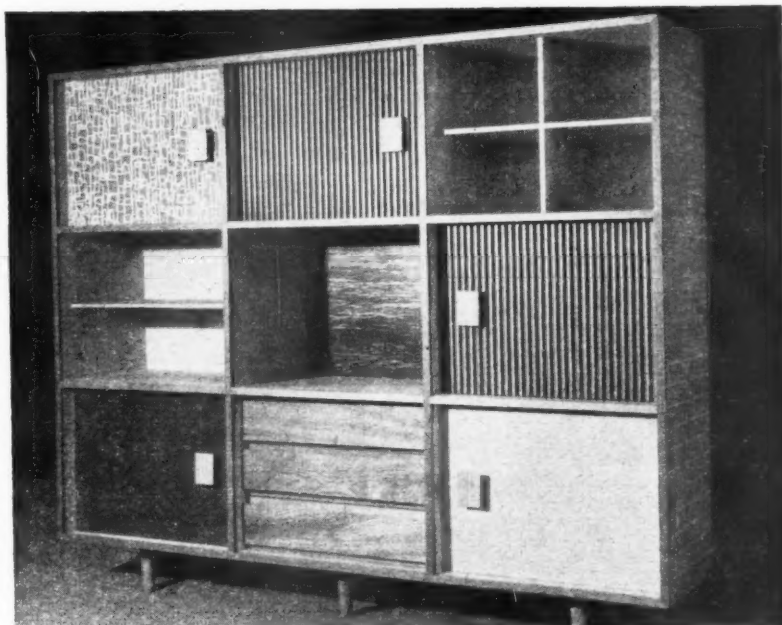
Kent County Council has taken this action because it believes that the windmills mentioned in the orders are of special architectural interest; they are among the few remaining in Kent which are in a state of repair which merits preservation. Many other Kentish windmills have been examined, but for various reasons, the Council has decided not to make orders. Some of the mills have fallen into decay or have collapsed. The Woodchurch Windmill is, however, protected by another means, the MOW having scheduled it as an ancient monument.

## DESIGN CONGRESS

*London Meeting in June*

The Alliance Graphique Internationale is holding its first congress in London from June 6 to 8. The AGI was founded at Basle in 1950 by two Swiss artists, Donald Brun and Fritz Bühler, and three French

## UNIT FURNITURE AND CORRUGATED PLYWOOD



Unit furniture, seen above, and a form of light corrugated panelling has been designed by Ian Bradbery. The unit has the appearance of being a single fitment, yet is in fact composed of independent units, each complete in itself, which can be assembled in multiples side by side or upon one another to any length or height required. The single fitment effect is provided by the cladding surrounding the units and the cover strips that hide the joints. The cladding and cover strips are easily fitted or removed and can be supplied in lengths suited to the arrangement of the units assembled.

Right is seen a wall panelled with corrugated plywood. The profile of the corrugations can be varied for door construction either as light weight core or, if two sheets are glued together with corrugations at right angles, for doors without facings.

The adhesives used are made from synthetic resins and will withstand damp, extremes of temperature or microbe attack. The makers are Airscrew Co. & Ficwood, Ltd., and the adhesive used in both products is by British Resin Products Ltd.





designers, Jean Colin, Jacques Nathan and Jean Picart le Doux. In this country, F. H. K. Henrion is a vice-president and Ashley Havinden a corresponding member. A number of prominent European artists have already been elected members. Other artists who desire to join the AGI will be required to submit specimens of their work and be sponsored by a member of the organization.

Among the objectives of the AGI are: defence of the professional rights of artists, promotion and recognition of high design standards, regulation of international copyright and reproduction rights, exchange of information on fees and working conditions, establishment of international standards regarding these conditions, organization of exhibitions and exchange of works, publication of an international bulletin as a link between members.

The central offices of the AGI are at 86, rue Joffroy, Paris 17e.

## LCC

### *Geffrye Museum Re-Opened*

The Geffrye Museum, which has been closed for more than a year, was re-opened yesterday. It will remain open from 10 a.m. to 5 p.m. on weekdays (except Mondays) and from 2 p.m. to 5 p.m. on Sundays. Admission is free.

The museum—which illustrates the development of the middle-class English home from 1600 to the present day—is housed in a block of eighteenth century almshouses in Kingsland Road, Shoreditch. It was closed so that wartime damage to the walls and roof could be repaired. The opportunity has been taken to redecorate the building, to improve storage and staff accommodation, and to provide public cloakrooms. The work has been carried out for the LCC at a cost of about £16,000. The architects for the scheme of repairs and improvements were Goodhart-Rendel and Partners.

## TDA

### *Timber Instead of Steel : New Committee Set Up*

The Timber Development Association stated last week that a Government committee has been set up to investigate the possibility of overcoming the shortage of steel by a wider use of timber. The TDA estimates that it would be possible to save about 460,000 tons of steel by substituting about 200,000 standards of timber; an amount which would put little strain on available supplies.

## NFBTE

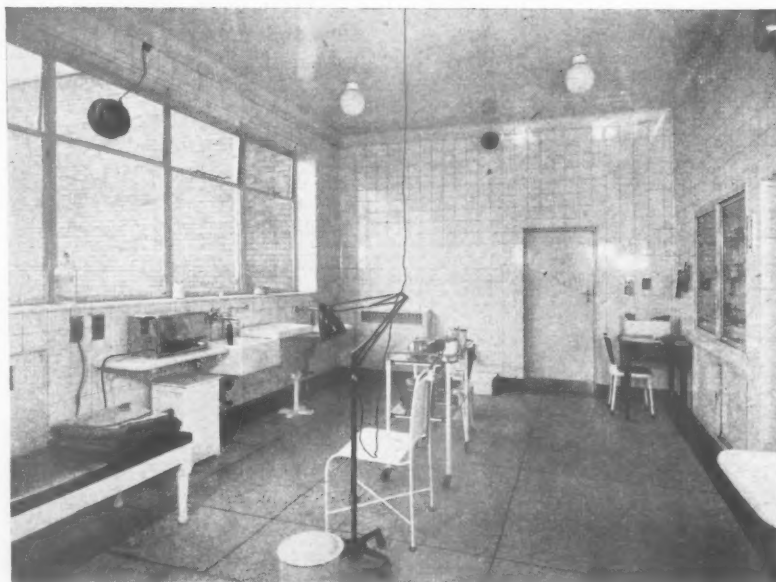
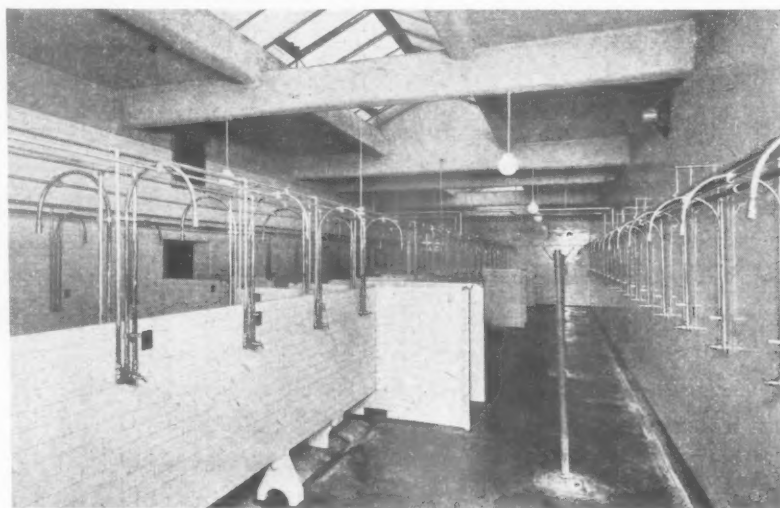
### *Awards to Craftsmen and Apprentices*

In May, 1951, the Council of the National Federation approved in principle a scheme for the award of prizes to apprentices and other students in building. The basis of the scheme is that prizes should be offered to apprentices and students at all stages in their

## PITHEAD BATHS AT BROOKHILL



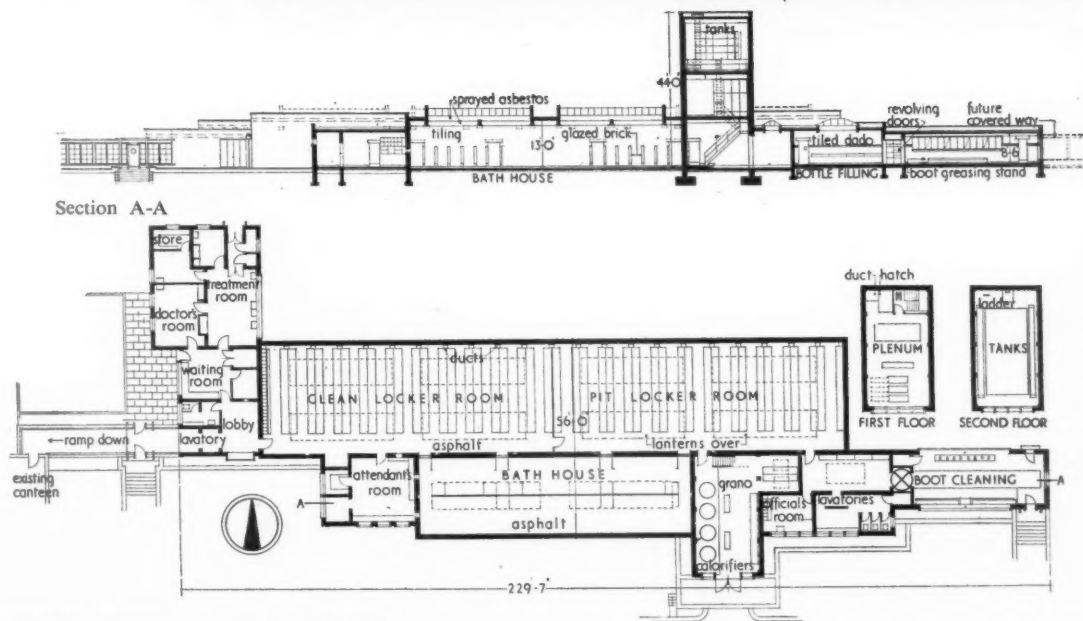
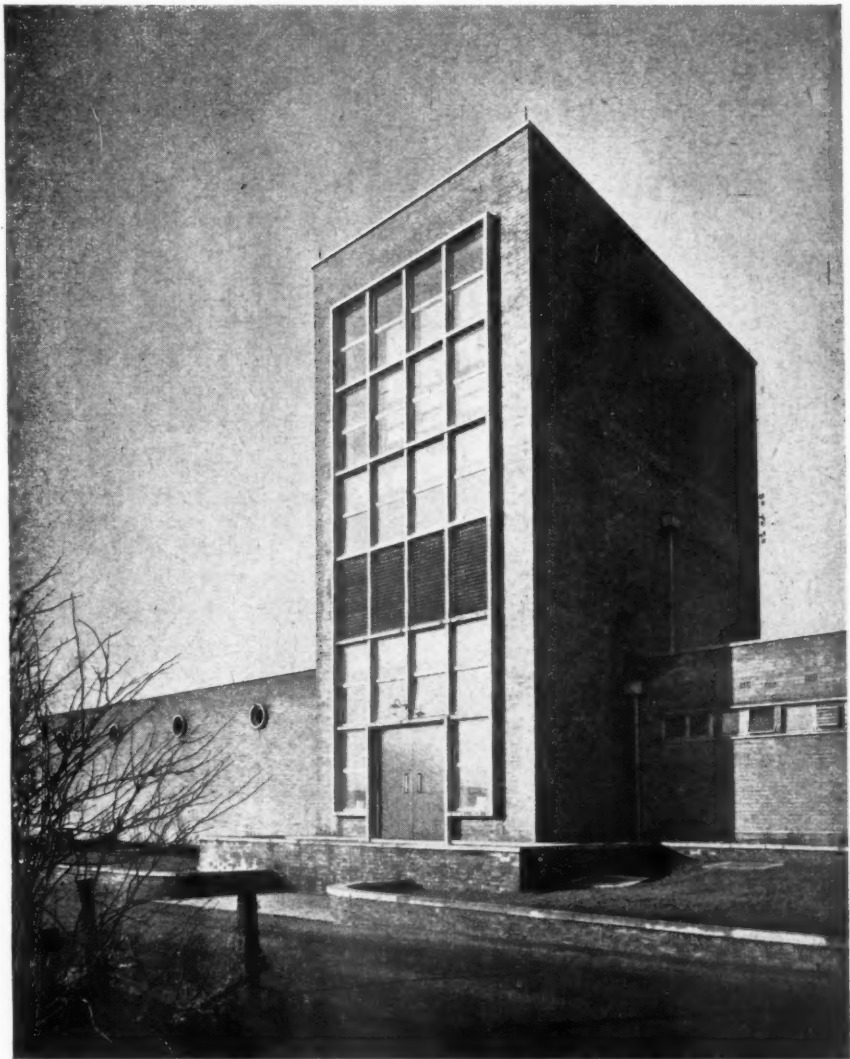
The pithead baths and medical centre at the Brookhill Colliery, Pinxton, were designed by the National Coal Board, Architects' Department, with D. G. Thornley and J. M. W. Dudding as associated architects. As the site is long and narrow, the two locker rooms are placed end to end, thus giving a flow through the building from the clean entrance, which is near the canteen, to the dirty entrance, which is as close to the pit head as possible. At a later date it is intended to build a covered way from the pit entrance to the shaft. The bath building provides changing and bathing accommodation for about 1,087 surface and underground workers, while the medical centre, which is permanently staffed, provides treatment for minor and serious injuries.





## COLLIERY, PINXTON, NOTTINGHAMSHIRE

The adjacent canteen was built during the last war and is connected to the new building by a covered way. The tank tower, seen in the photograph, right, is carried on a steel frame with 14-in. hollow external walls, a first floor slab cast in situ and the second floor and roof slabs consisting of precast hollow beams. The remainder of the scheme has 14-in. hollow walls, consisting of two 4½-in. skins and a 5-in. cavity, thus avoiding the projection of piers, internally or externally. Internal projections would raise serious difficulties in the fitting of lockers, shower partitions, etc. The glazed brick partitions in the bath house are seen in the photograph, left; below, left, medical centre. The top photo opposite shows a general view looking south-west, showing the clean entrance on the south side of the covered way on the extreme left. The cost was £52,500 for the baths and £6,000 for the medical centre. The general contractors were Henry James (Mansfield) Ltd. Sub-contractors: page 650.

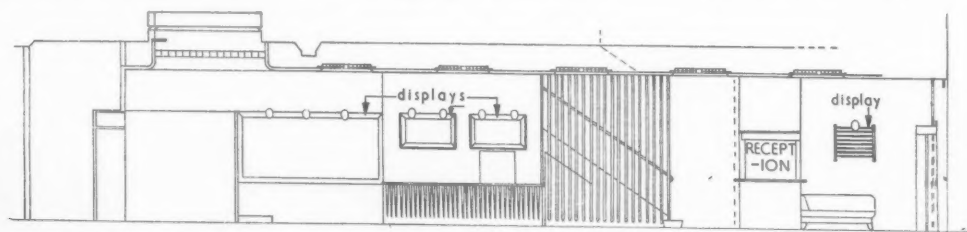


Ground and upper floor plans (Scale: 1/4" = 1' 0")

## LINEN SHOWROOM IN TOTTENHAM COURT

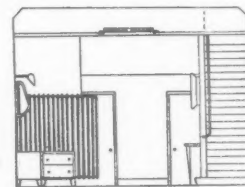


A wholesale showroom for linen goods at 233, Tottenham Court Road has been designed by J. Edward Sander in a ground floor area of 64 ft. by 16 ft. On the right of the entrance is a curved enquiry kiosk, the surface of which is of ash-faced plywood backed by

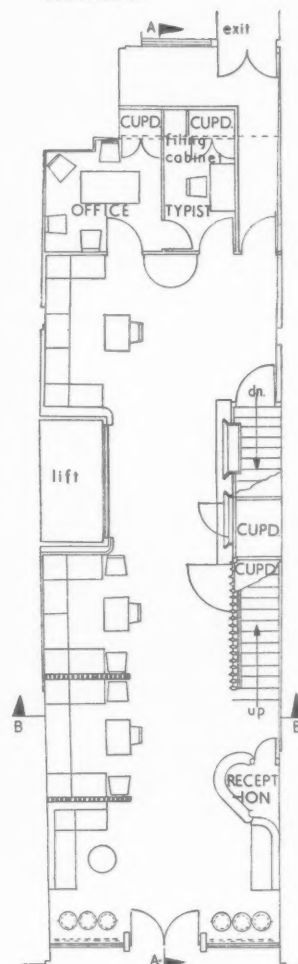


Section A-A

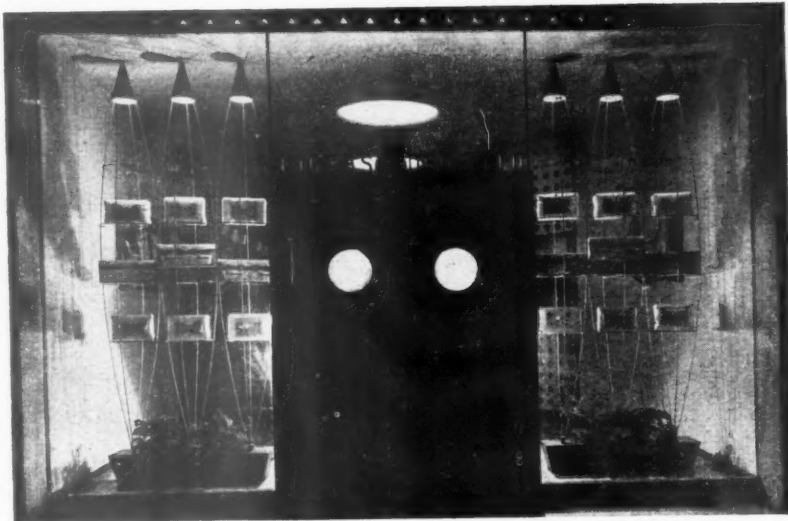
mahogany and is seen in the photograph (right). Opposite this kiosk are three serving bays formed by open slatted screens and each containing four serving units, two with deep drawers and two with a sliding door cupboard. These bays are seen in the photograph (left), with the mahogany faced shaft on the right. The stairs to the first floor are screened by vertical fins of ash seen top left, and the partly recessed display frames are also in ash against a mahogany background. The original height



Section B-B

Plan [Scale :  $\frac{1}{8}$ " = 1' 0"]

ROAD, LONDON, W.1



to 13 ft. has been altered by a false ceiling 2 ft. deep, which contains a large egg-crate louvre over the offices to disperse light from a skylight above and from three 8-ft. fluorescent tubes. The length of the showroom is lit by five 3-ft. 6-in. diameter louvres, also at false ceiling level, each with three 4-ft. fluorescent tubes. The photograph above shows the show window and entrance from Tottenham Court Road. The general contractors were Andrew A. Pegram, Ltd. For sub-contractors, see page 650.



training to encourage them to pursue craft and technical studies both within the requirements of their indentures and beyond.

The Federation has recommended to its constituent regional and local organisations that they should continue to be responsible for making awards on the result of the craft examinations while the Federation has itself assumed responsibility for awarding prizes on the results of the examinations for the National Certificates. The first national awards under this scheme, for 1951, have recently been made. The following particulars relate to the national awards offered for 1952:—

For craft apprentices and young craftsmen: A first prize of £25 and a second prize of £20 to the two best apprentices in each region who obtain the Ordinary National Certificate in Building in 1952. To be eligible for these prizes apprentices must be indentured under the National Joint Apprenticeship Scheme and be employed by a federated firm.

A Silver Medal (together with a Certificate and cash award of £50) and a Bronze Medal (together with a Certificate and cash award of £40) to the two best apprentices or young craftsmen in the country who obtain the Higher National Certificate in Building in 1952. To be eligible for these prizes apprentices must be indentured under the National Joint Apprenticeship Scheme and be employed by a federated firm. And, young craftsmen must have served a craft apprenticeship under the National Joint Apprenticeship Scheme or be in the employment of a federated firm and have obtained the Higher National Certificate within a reasonable time after completing their period of National Service.

For students in building other than craft apprentices: A first prize of £25 and a second prize of £20 to the two best students in each region who obtain the Ordinary National Certificate in Building in 1952. To be eligible for these prizes students must be employed by a federated firm and be serving under approved articles of agreement.

A Silver Medal (together with a certificate and cash prize of £50) and a Bronze Medal (together with a Certificate and a cash prize of £40) to the two best students in the country who obtain the Higher National Certificate in Building in 1952. To be eligible for these prizes students must be employed by a federated firm; and be serving under approved articles of agreement.

## DIARY

*Town Planning in Kuwait.* P. W. Macfarlane. At 28, King Street, Covent Garden, W.C.2. (Sponsor: 1CPA Students' Planning Group.) 6.30 p.m. MAY 22

*Hammersmith School of Building and Arts and Crafts and Architectural Training Exhibition.* At BC, 26, Store Street, Tottenham Court Road, W.C.1. Weekdays, 9.30 a.m. to 5 p.m. Saturdays, 9.30 a.m. to 1 p.m. UNTIL MAY 24

*Housing at the Right Rents: A Conference.* At the Conference Hall, County Hall, London, S.E.1 (Sponsor: HC). From 2.30 p.m. Monday, May 26, to 5 p.m., Thursday, May 29. MAY 26 to 29

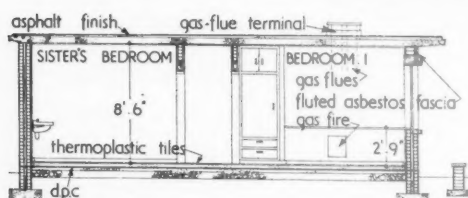
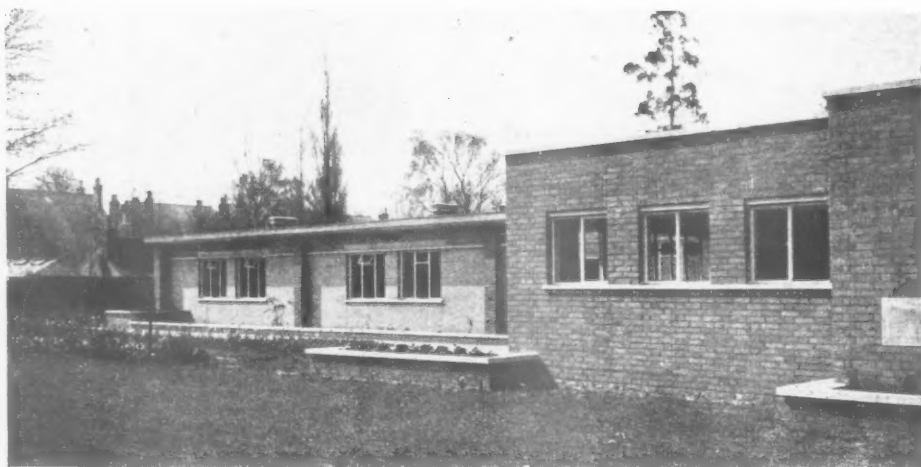
*Prospect.* Talk on Dublin architecture and planning by J. M. Richards on BBC Third Programme. 8.55 to 9.15 p.m. MAY 28

*Indoor Gardening.* A talk by Peter Shepherd. At AA, 36, Bedford Square, W.C.1. 8 p.m. MAY 28

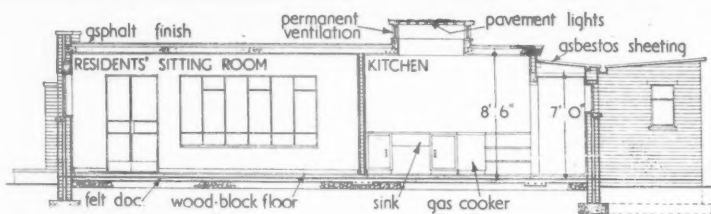


## ELDERLY PEOPLE'S HOME, MULGRAVE ROAD, SUTTON, SURREY

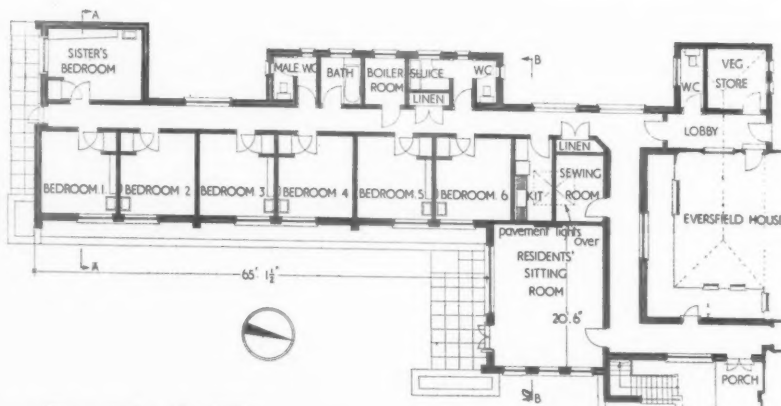
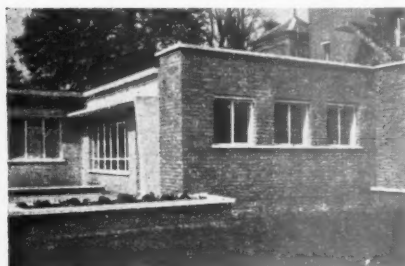
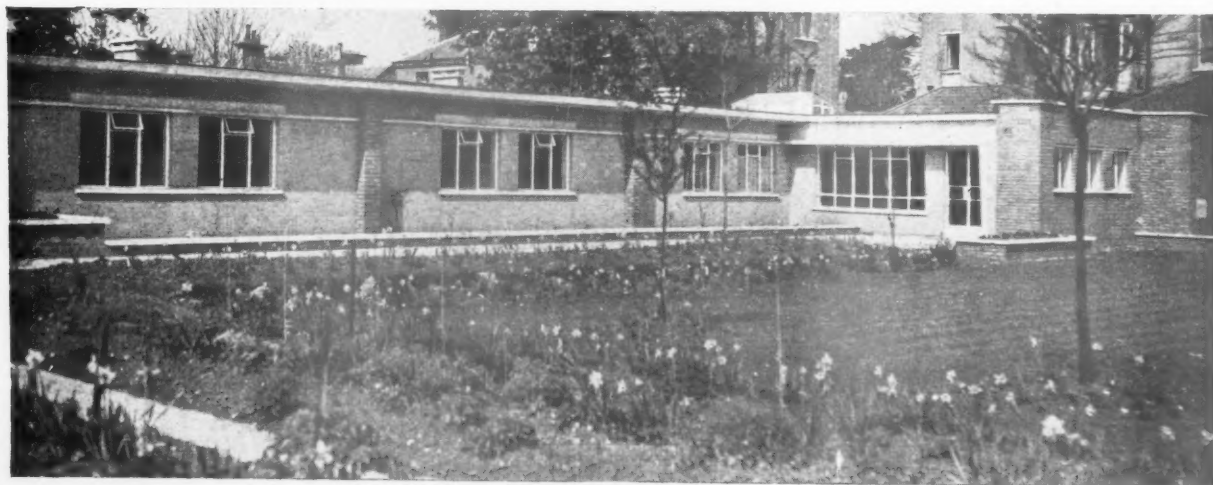
An extension to the Elderly People's Housing Association building in Mulgrave Road, Sutton, was designed by Alan Stubbs and Geoffrey Somerton to house six elderly people and a matron. The main part of the new building, which adjoins the Association's original premises, is constructed of brick in two contrasting colours and has a reinforced



Section A-A

Section B-B [Scale :  $\frac{1}{2}$ " = 1' 0"]

concrete roof. The photographs show the extension looking south (top right), looking west (below), and looking north-west (bottom). The general contractors were A. Roberts & Co., Ltd. For sub-contractors see page 650.

Plan [Scale :  $\frac{1}{2}$ " = 1' 0"]



## WORKING DETAIL

STAIRCASE: ARCHITECT'S OFFICE, LOS ANGELES

*William Beckett, architect*

STAIRCASES: 19



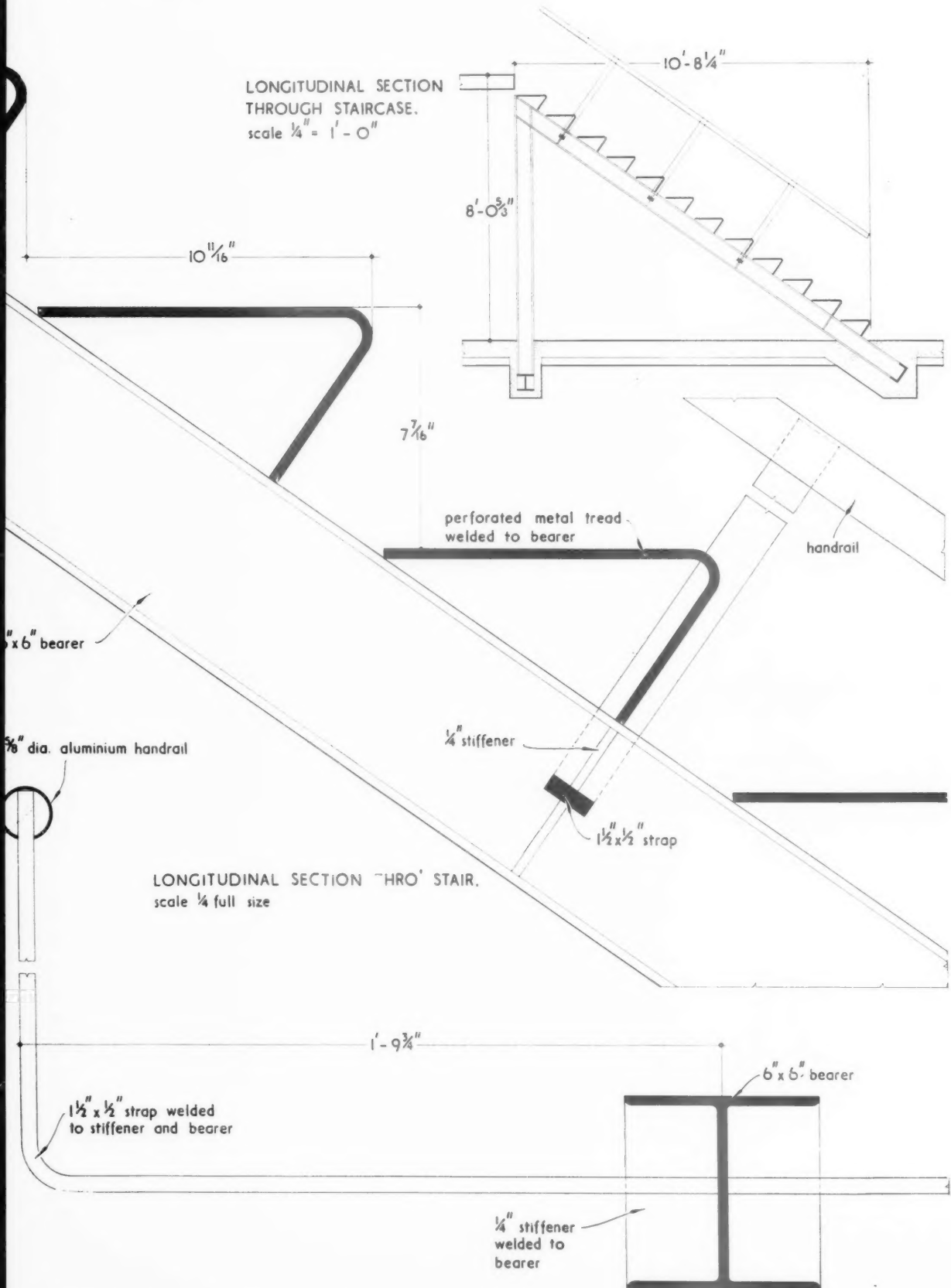
*Each perforated metal stair is welded separately to the central carriage beam which, resting on a vertical support at the top end, enables the staircase to be completely free-standing.*

# WORKING DETAIL

STAIRCASES: 12

STAIRCASE: ARCHITECT'S OFFICE, LOS ANGELES

William Beckett, architect



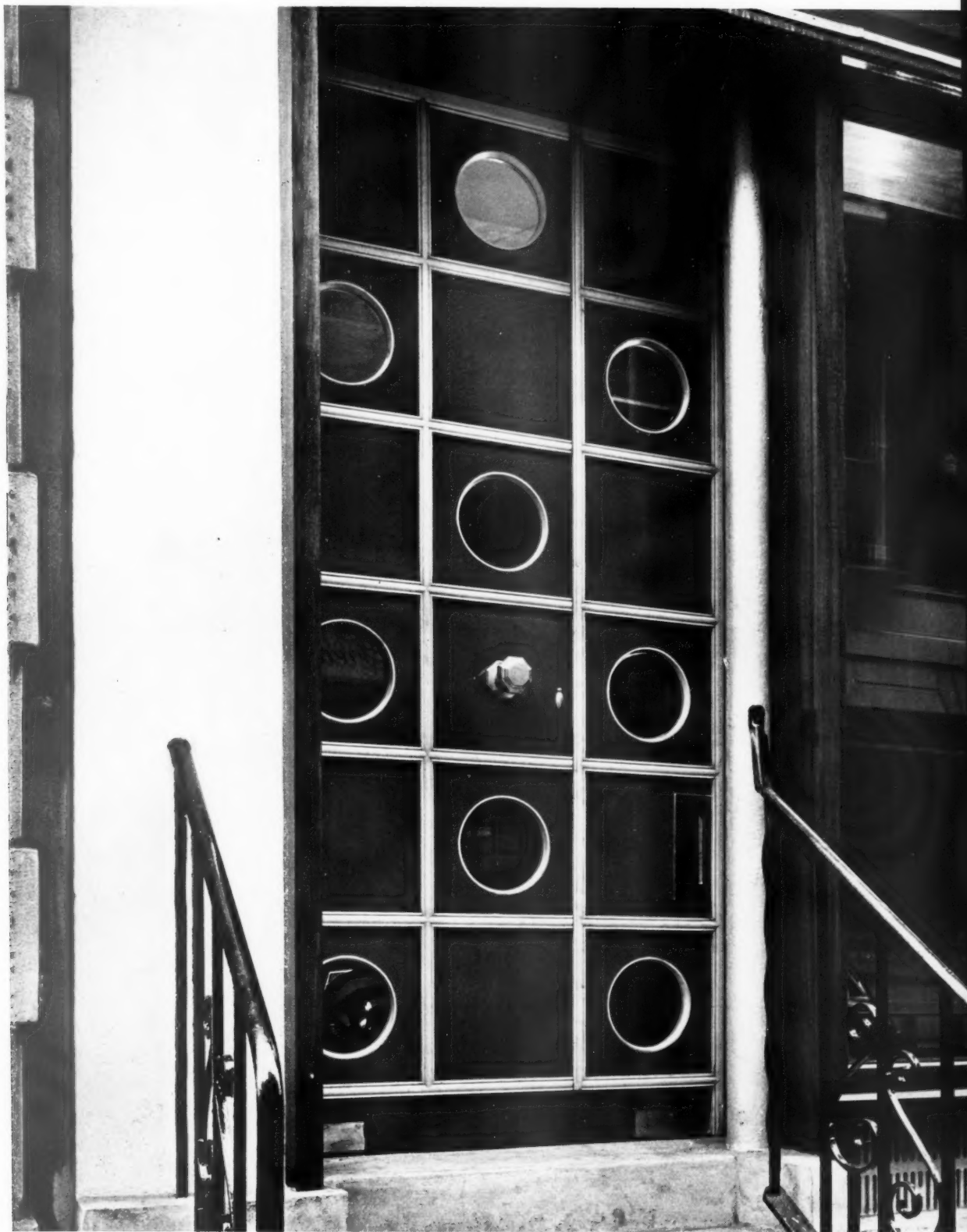
CROSS SECTION THRO' HANDRAIL SHOWING CONNECTION TO BEARER  
scale 1/4 full size

## WORKING DETAIL

DOORS: 8

ENTRANCE DOOR: OFFICES IN LONDON, S.W.1.

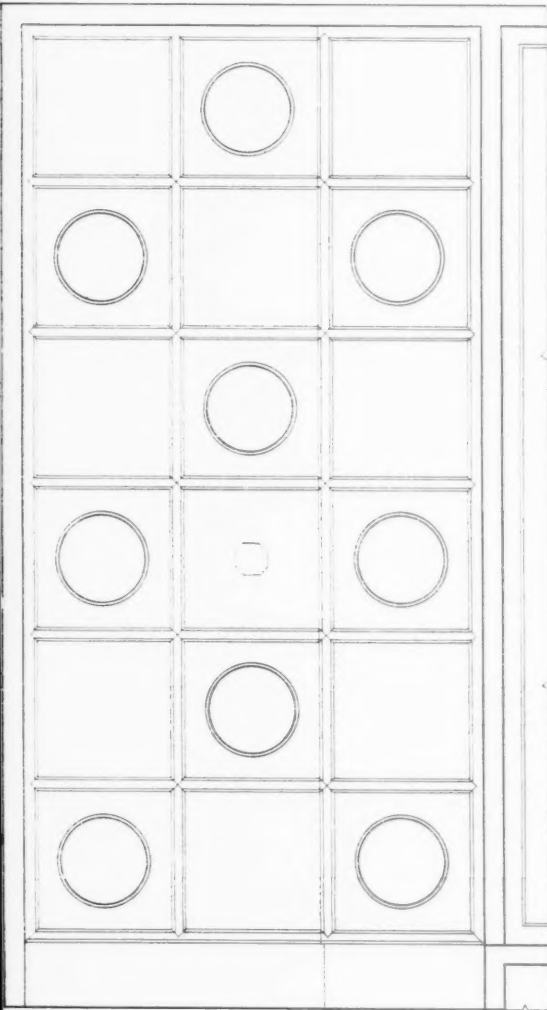
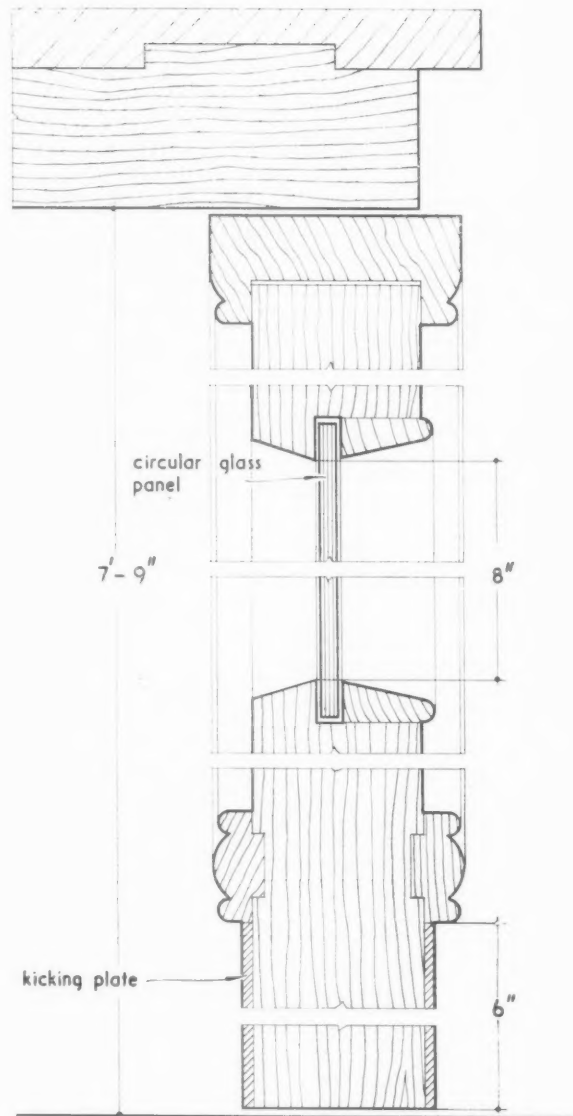
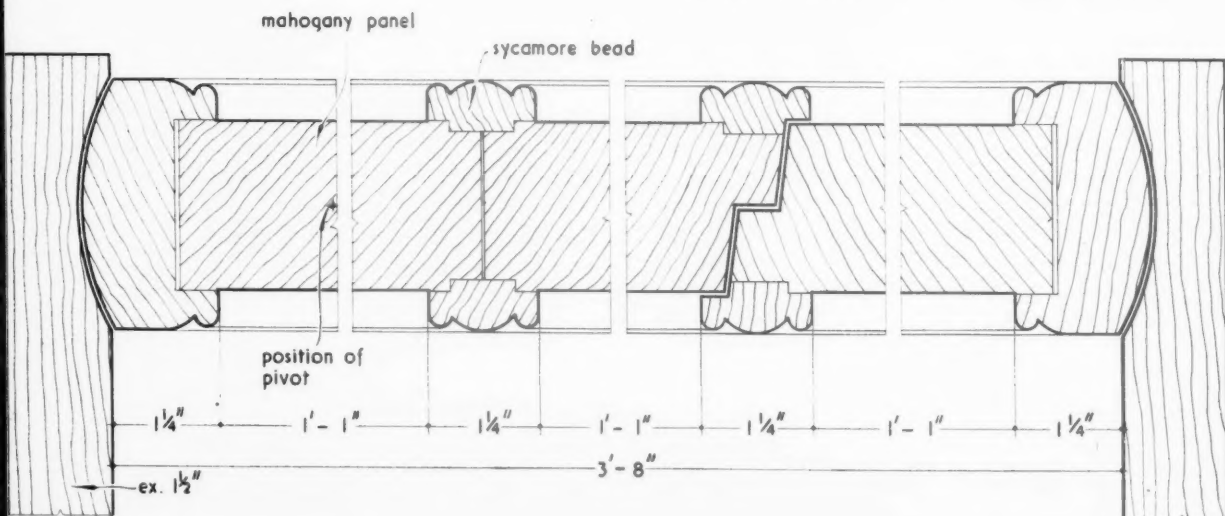
*Bertram Carter in collaboration with Dyneley, Luker and Moore, architects*



*The door, which is in mahogany with sycamore mouldings and glazing beads, opens in two sections.*

**WORKING DETAIL****DOORS: 8**

ENTRANCE DOOR: OFFICES IN LONDON, S.W.1.

*Bertram Carter in collaboration with Dyneley, Laker and Moore, architects*ELEVATION OF DOOR. scale  $\frac{3}{4}'' = 1' - 0''$ SECTION THROUGH DOOR. scale  $\frac{1}{2}$  full sizePLAN THROUGH DOOR. scale  $\frac{1}{2}$  full size







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*On June 19 the whole issue of the JOURNAL will be given over to a "pre-view" of Edinburgh, which is to be the headquarters of the RIBA Conference between June 25 and June 28. This week a Scottish news-letter from Linda Westwater gives details of current building in the country, some of which will be illustrated in the special issue.*

## LINDA WESTWATER

### Scottish News-letter

In the last twenty years or so large claims have been made that a Scottish Renaissance is taking place. While the term may be something ambitious it remains true that there are distinct signs of increased activity and curiosity in the various arts; and although the evidence of this in architecture may not be so immediately noticeable or effective as in literature, music, or painting, there are clear enough indications that architecture shares in the general revival.

#### BUILDING IN STONE

To cite only three significant facts: we find that the traditional building material of Scotland—stone—is being used again to a surprising extent and that the dying craft of the stone mason may thus still recover. Enterprise certainly exists in the proposed reconstruction of the bombed area of Clydebank which is to include the largest scheme of multi-storey flats so far envisaged in the United Kingdom. Basil Spence, who won the competition for the rebuilding of Coventry Cathedral, is, of course, a Scottish architect. The state of Scottish tendencies, outlook, and talent, would seem, then, to be healthy.

The return to building honestly with stone, a material which for the past few decades has been misused in steel framed structures and taken advantage of in order to lend an air of wealth to the fronts of harled brick bungalows, seems to have started. This has had a fillip from the policy of the architects on the Advisory Panel to the Hydro-Electric Board, who very properly have desired to ensure that the buildings would harmonize with Highland landscape and building tradition. Even if it is impossible to achieve this in the case of some of the larger power stations and although some of the smaller buildings may have leaned rather coyly towards near-camouflage, there can be no

doubt that the principle of using this traditional material here is sound.

One example where stone is to be used in a traditional manner is provided by the project for the Cistercian Order's Abbey at Nunraw, near Haddington, designed by Peter Whiston. Work has just started on the foundations and the Order has acquired a local stone quarry, from which dormitories, a refectory and, eventually, a church will all be built of stone used structurally. Another notable example is the Abbey Church at Fort Augustus where the same stone as that of the original church is being used and where much of a distinguished design (Dr. Reginald Fairlie) is already erected. Even the columns here are of hewn stone.

#### FISHERMEN'S HOMES

There are fewer signs as yet of stone being used in more contemporary designs, but the possibilities are pointed by Spence's charming group of fishermen's houses at Dunbar harbour, where parts of the outer walls are stone. These buildings are modern in character though they contrive with their pitched roofs to mix very happily with the existing houses. Such partial use of stone, with its ability to preserve local character, is one answer to the chief difficulty of house building in stone, namely its high cost. The whole question is under consideration by the Building Materials Committee of the Scottish Council (Development and Industry) and it does seem possible that the stone mason's craft may be revived just in time.

A model of the proposed Centre of Clydebank appeared in the "Living Traditions" Exhibition during the Festival last year. The scheme, exclusively multi-storey, was designed by Sam Bunton and partners. It was worked out with the aid of the Department of Health's sun machine so that all parts of the grounds will be certain of maximum sunshine.

An interesting application of cross wall structure is being developed for the flats. Lightly reinforced hollow block cross walls and post-stressed concrete slab floors replace the usual framed structure. The first experimental 8-storey block is to start this month and tests will be made when the first storey is reached. A Scottish committee for the examination of non-traditional methods of construction has recently been formed, on which the Building Research Station is represented, and plans, therefore, no longer have to travel south for approval.

All building materials have been in short supply. Last August the acute shortage of bricks forced Clydebank to import from Antwerp, and between August and February this year 6 million bricks were unloaded at Grangemouth. A shuttle service of lorries plied between the docks and Clydebank sites to keep the bricklayers going. New brickworks and extensions to brickworks in Scotland are being built, but the increasing output just fails to keep pace with demand. Cement shortages occur regularly in summer and autumn when there is insufficient shipping space to bring up supplies from the south.

New permanent houses built in Scotland in 1951 totalled 22,000, and if the United Kingdom target for 1952 of 300,000 is to be reached this figure will require to be almost doubled. If we could be sure of the miraculous combination of fine weather, a steady flow of materials and a well balanced building industry, with perhaps the financial assistance that the industry is now seeking, the figure might be reached. The total for January was 2,232.

#### RISE IN PRICES AND WAGES

Since the summer of 1951, building prices, always slightly higher in Scotland, have risen 3 per cent., and there has also been a rise in building trade wages. To counter the rise in costs, experiments are being

made with low-cost housing. Terrace houses on the "no back door principle," without pends (common passages) or back service roads, are likely to become popular since the Department of Health's successful demonstration houses in Glasgow and Edinburgh this January and February. Eight houses, four 3-bedroom and four 2-bedroom, in each city, were rushed up by the Scottish Special Housing Association and furnished attractively by the Scottish Council for Industrial Design. Living rooms were spacious, in effect at least, entrance halls non-existent, and bedrooms reduced to English standards. Experimental blocks are already being built in East Kilbride, Fife and Argyll, and another is to follow in Stirling. In the latter the block will be a development of the cross wall system, frontages being reduced to 17 ft. 6 in., by David Carr and Stuart Matthew.

Planned to relieve housing and industrial congestion in the Clyde Valley, the new town of East Kilbride is steadily growing. Laboratories for the Department of Scientific and Industrial Research are under construction. Three hundred and twenty-four houses have been completed, and the first of the twelve primary schools is due to open in September. A group of houses and shops designed by Alan Reisch is now occupied. Beautifully detailed and finished in teak and oak-strip, the shops are particularly notable for uniform, well-designed lettering, and for a neat row of garages and a delivery yard at the back. The latter is evidently not appreciated by one shopkeeper who dispatches his goods daily via the front door.

#### CHANGES IN EDINBURGH

Interesting changes are occurring in Edinburgh. The Royal Mile described by Ian G. Lindsay as a "drab, bus-infested slum" is, in fact, gradually becoming the centre of culture decreed by the planners. It will be a pity if in the process the inhabitants are completely edged out, for the street has a tradition of mixed classes, which has never completely died. At the moment in Wardrop's Court, Robert Hurd has just finished converting Blackie House into "luxury" flats, and well known Scots such as Compton Mackenzie and Bruce Lockhart are said to be on the list for its future inhabitants. Near the Holyrood end of the Mile the same architect has just been entrusted by the city with the reconstruction of a block of dwelling houses opposite Moray House Training College. His scheme is still on the drawing board but it is clear that some colour and gaiety will be forthcoming. Colour wash and pantiled roofs will contrast with the stonework of such façades as are worthy of preservation and reconstruction. The old circular stairs, with easy rise and tread, are all to be retained and it seems likely that many besides those on the Town Council's housing list will put forward claims for tenancy.

In the Lawnmarket, The Carnegie Trust, has chosen Fishers Close for its central library, giving James Shearer of Dunfermline quite a lot to think about, for the building, scheduled as an Ancient Monument and five storeys high, was scarcely suitable for the storage of large numbers of books. The interior is being rebuilt and hollow-tile floors on a steel frame are rising stage by stage behind the old stone walls. One of the biggest site problems is storage of new materials; an even bigger one is the disposal of the present interior which has to be "bagged" and removed by hoist. Now the stone front is showing distinct and unmistakable signs of resentment and it too will eventually be taken down—but it will be carefully rebuilt as before.

Just round the corner in George IV Bridge is the National Library for Scotland, designed by Dr. Fairlie. Its steel skeleton stood rusting throughout the war years and will soon be clad in stone. The site here is

relatively open and drops spectacularly on one side from bridge level down to the old Cowgate below.

Scottish Universities are all expanding and the most exciting extension, on the verge of completion now, is undoubtedly Basil Spence's new building for the Department of Natural Philosophy in Glasgow. The synchrotrone for atomic research, which it houses, is below ground and the exterior form of the building was dictated entirely by the elaborate and specific research requirements of the various laboratories, consequently the building presents a calm and ordered exterior with no hint of the drama below ground.

#### NEW HEALTH CENTRE

At Sighthill, among acres of municipal housing on the outskirts of Edinburgh, a Health Centre is just being completed by the Department of Health, the first of its kind in Scotland. An attractive low copper-roofed building, it will form a group practice centre for six doctors and four dentists. Another, smaller, has been approved for Stranraer.

A model is being constructed in the offices of John Holt, architect to the South-East Regional Hospital Board, of a Radio-Therapeutic Institute for the research into and the treatment of cancer. Holt is one of the Peterlee New Town designers from the North of England, and with this scheme, which has now, after a somewhat stormy passage, received, if not blessings, at least approval from all the necessary quarters, he will provide Edinburgh with its first really modern building of any size. It will house, among other terrifying apparatus, a linear accelerator of four million volts and, as in the atomic research buildings, special precautions have had to be taken to protect the staff. Forty per cent. of the patients will be ambulant and the general atmosphere is one of a hotel rather than a hospital. A small sun lounge is provided at the main entrance for visitors awaiting admittance and there is a sun lounge for patients on the roof. The wards are on the Nuffield principle and the linear accelerator is planned apart from the ward blocks, the whole forming a most interesting group. Building is just about to start.

A number of hospitals are being planned throughout the country, and the first units of a large Emergency Hospital designed by J. L. Gleave, who is now in practice in Glasgow, have just been started at Alexandria in Dumbartonshire. Planned on a 20-ft. grid and using a 3-ft. 4-in. module the hospital will have the utmost flexibility.

#### SCHOOLS IN SCOTLAND

In school buildings Scotland is following England's lead, and several schools on the Hertfordshire system are under way. Church architecture of a non-traditional kind is also springing up. In Edinburgh, at Davidson's Mains, the three-pin arches of a small RC Church of Peter Whiston's, which have just been erected, demonstrate that this architect is by no means "thirled" to tradition. This church will be lit only from the end facing the altar, side-lighting being entirely omitted. At Whithorn, if the design is approved by the bishop, we may see a miniature Coventry Cathedral. Designed by Spence before he entered for the Coventry Competition the little church of St. Ninian is to have the same type of side lighting with the varying shades of coloured glass, and an end wall of glass revealing the altar to pilgrims visiting the shrine.

If the foregoing account tends too much towards a mere catalogue of activities, it is because the activities themselves are so encouragingly numerous: and there are many more which the limits of this article must exclude.

## ERNEST WATKINS

### The Architect and Current Affairs

Two decisions of general interest have just been given by the Court of Appeal; one on the old subject of the unlicensed building job, the other on the meaning and effect of Section 78 of the Town and Country Planning Act.

#### UNLICENSED BUILDING

The first case concerned premises at Arundel, in Sussex. In April, 1948, an owner made a contract with builders for work on his property as shown in plans submitted to and approved by the local council, and at a fixed price. At that stage no building licence existed. The builders started work at once and the first job they tackled was the demolition of the west elevation wall. No licence was sought for this work, as it was, apparently, thought that it was emergency work and, therefore, no licence was needed. Licences for the rest of the work, covering a total cost of £3,200, were issued in June. The total cost of all the work done in the end, as claimed by the builders, was £1,733 for the wall and £3,200 for the rest. The owner had paid the builders three instalments each of £500, the first when the contract was signed, the second when the first building licence was granted, and the third in the following August. The builders claimed to be entitled to set those three payments against the cost of the unlicensed work, leaving the full £3,200 owing on the rest of the job. The owner claimed that the payments should be set against the cost of the licensed, and so legal, part of the work and that he was not liable to pay for any part of the unlicensed work.

Substantially, the owner won the day in the Court of Appeal. The line of reasoning that produced that result was as follows. The owner was liable to pay his instalments under the original contract for the whole job. When making them he did not appropriate them to the cost of the unlicensed work on the west elevation wall, and, in view of the terms of the contract, the builder was not entitled to make such an appropriation himself. Therefore, since part of the contract was legal (licensed) and part not, the owner was entitled to say that what he had paid must be credited in full against his legal liability, not against the cost of the illegal work. And the judgment of Lord Justice Denning contains this cautionary sentence: "Builders, when they undertake building work, ought to see the licence before they start work."

#### A PLANNING CONSENT CASE

The second case concerns Marks & Spencers, who, in August, 1947, made

a building agreement with the Portman estate for an extension to their premises in Baker Street, London. By August, 1938, all the consents needed from all the authorities (under the London Building Acts, the Restriction on Ribbon Development Act, and the T. & C.P. General Interim Development Order of 1933) had been granted, but the last contained a time limit; the work was to be completed within 18 months of August, 1938. A contract for the demolition of the existing buildings was made in the following year and the demolition was complete by July, 1939. But, then, the prospects for building were dubious. No building contract was made, the site remained vacant during the war, and the question was at last reopened by a request to the LCC for permission to go ahead, notwithstanding the expired time limit.

The substantial points at issue in the case were two. The first was under Section 78 of the 1947 Act. This allows building to proceed under earlier consents, and so to escape development charge, if, on July 1, 1948, "any works for the erection . . . of a building have been begun but not completed." Had any works for the erection of this building been begun in 1939? No, said the LCC and the Central Land Board. There was no contract to build, only a contract to demolish the old buildings. Yes, said Marks & Spencers. The Section says "works for" the new building, and demolition of the old is an essential "work for" the building of the new. We are covered by Section 78, they argued, and, by a two to one majority, the Court of Appeal agreed with their argument.

The second point in the case was over whether the original time limit imposed by the LCC when granting town planning consent was valid. The consent given by the LCC was a conditional consent and the Court of Appeal were therefore faced with an interpretation of Section 10 of the 1933 Interim Development Regulations. The view of the Court of Appeal was that Section 10 requires that any planning authority giving anything less than an unconditional consent to an application for approval must give reasons when announcing its decision to the applicant. In this case, the LCC had not given any reason for imposing a time limit to the original consent. As a result, the time limit, being a condition, and an unexplained one, was invalid. In the view of the Court, the position was that the consent given in 1938 became an unconditional one and was effective as such on July 1, 1948. No further planning permission was needed and no development charge became payable.

This decision may still be of interest to those still wrestling with pre-war planning permissions.



## REPAIR DEPOT

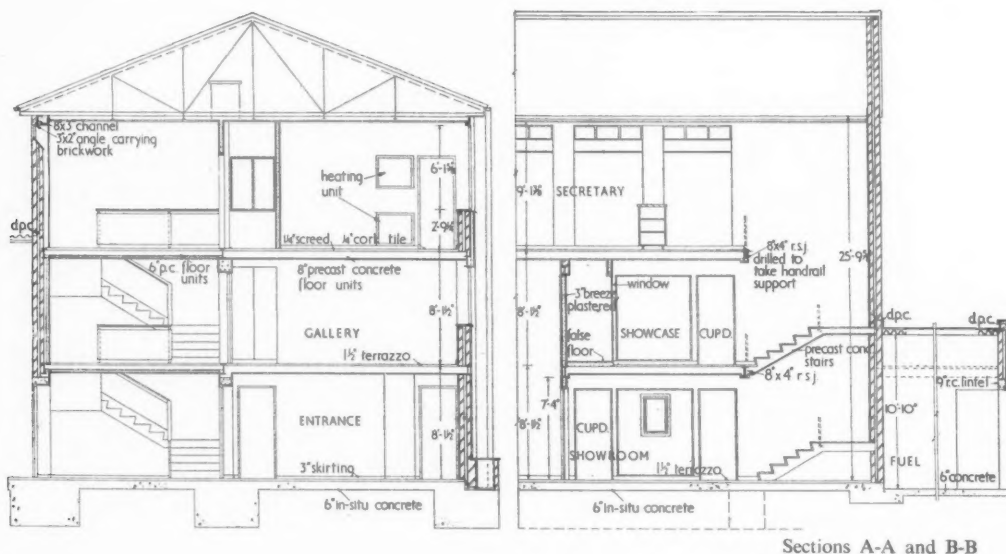
in BUMPERS LANE, SEALAND ROAD, CHESTER

designed by AILEEN TATTON BROWN

The new showroom and repair depot for Knutsford Motors Ltd. in Bumpers Lane is the first building to be completed on the Sealand Road Trading Estate, outside Chester. The ground floor showroom is designed to accommodate tractors and agricultural implements up to 13 ft. in height, and small equipment is shown in the mezzanine gallery. Offices are situated on the first floor. The spare parts store, which plays an important part in the sales, lies between the showroom and repair shop.

*The showroom seen from the south-west.*



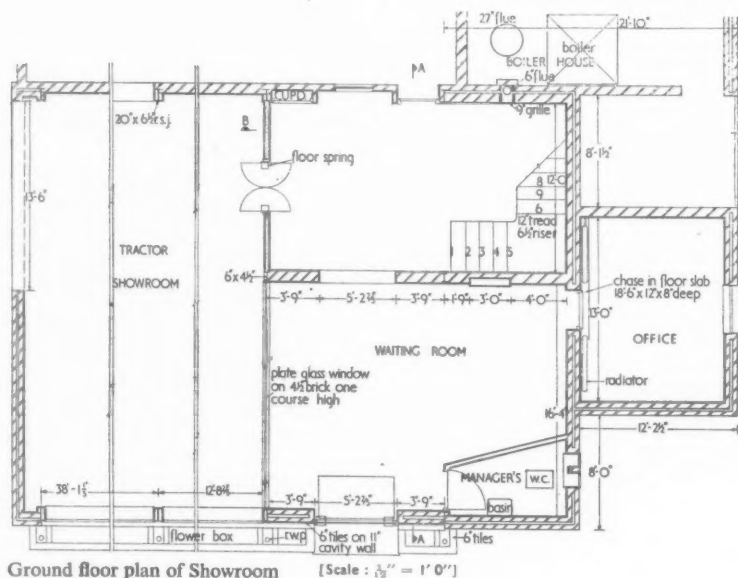


## REPAIR DEPOT

in BUMPERS LANE, SEALAND  
designed by AILEEN TATTON BROWN

**CONSTRUCTION.**—The fact that the site is of made-up ground with a load bearing capacity of only  $\frac{1}{2}$  ton per sq. ft. suggested the use of lightweight building materials, such as asbestos-cement cladding lined with wood-wool. On the other hand, the workshop has a welded arched rib frame with a 60-ft. span capable of carrying mono-rails for transporting spare parts from the store.

**FINISHES.**—As the building is designed as a whole rather than a facade with works behind, the white corrugated asbestos sheeting used as a facing material for the workshop has been introduced as a fascia on the south facade. This asbestos panel is 60 ft. by 4 ft., and was designed as a background to lettering 2 ft. 6 in. high, which was intended to form an integral part of the design. Chester Corporation, however, possess special powers to control lettering on buildings in order to preserve the historic charac-



Ground floor plan of Showroom

[Scale:  $\frac{1}{16}'' = 1' 0''$ ]

ter of the old town and, although the Sealand Road estate is separated from the town by the river and open fields, these powers can also be enforced there since the Corporation own the trading estate. Small,

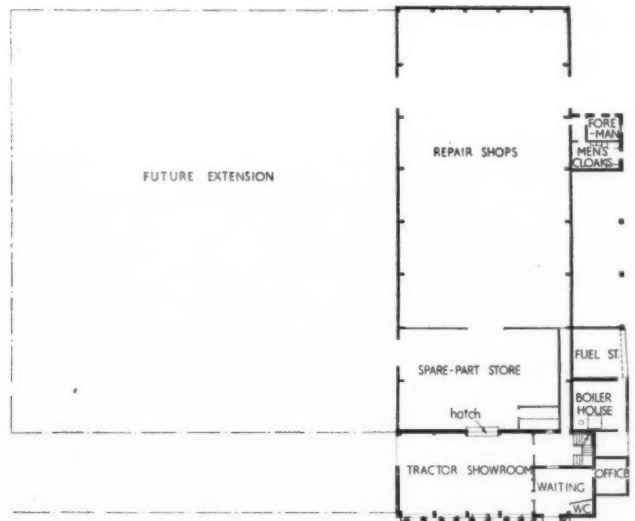
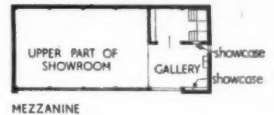
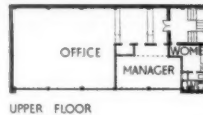
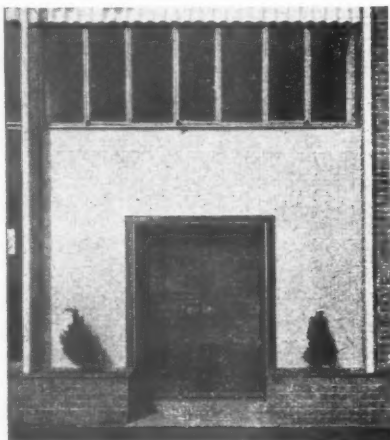
*Below left, the showroom for agricultural implements with mezzanine gallery at the far end. Below, the entrance foyer and stairs.*



Right, the south-east facade with the main entrance to offices and showroom on the right. Below, the entrance doors, which are surrounded by light blue tiles.



irregularly spaced lettering was suggested by the Improvements Committee, but after discussion with the City Surveyor, letters 1 ft. 9 in. high, of the type originally designed for the building, have been permitted. In the workshop the colours used are red for the end wall, white for steelwork, blue for the soft board ceiling and yellow for side walls.

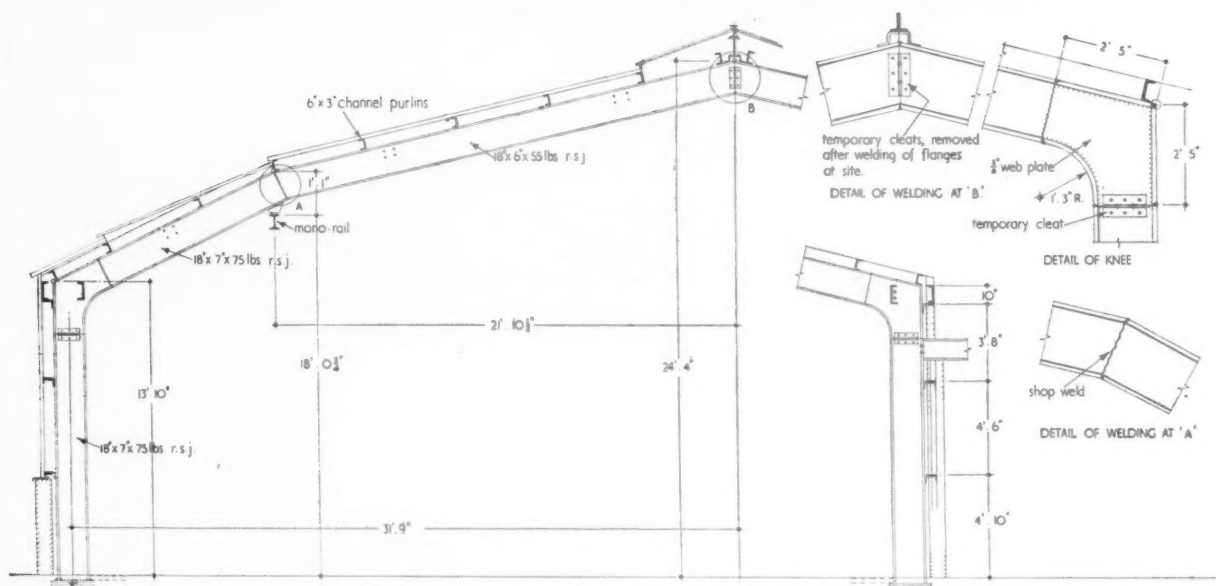


Ground floor, mezzanine and upper floor plans

[Scale:  $\frac{1}{4}$ " = 1' 0"]



Left, the repair shop, which is spanned by a welded arched rib steel frame. Below, the entrance hall; the showroom on the left behind a glass screen.



Cross section of workshop steelwork [Scale:  $\frac{1}{8}''$  and  $\frac{1}{4}'' = 1' 0''$ ]

## REPAIR DEPOT

in BUMPERS LANE, SEALAND ROAD, CHESTER

designed by AILEEN TATTON BROWN

White is the main colour in the showroom and stores, and grey, white and Cambridge blue are used in offices. Floors are finished with terrazzo in the entrance hall, cork in the offices and granolithic in the showroom. The entrance door frame has an aluminium and ebony lining, surrounded by light blue tiles. The cost was approximately £27,500. The general contractors were John Hughes (Contractors), Ltd. For sub-contractors, see page 650.





## TECHNICAL SECTION

Once again slab-lifting is in the news (see Information Centre item 19.148 on page 649) and the latest development underlines one of the principal differences between the American and the British building industries. The British building industry is frequently accused, with much justification, of being slow to apply to the site the results of research. In America this is certainly not the case.

When O'Neil Ford, The Texan architect, was in England less than a year ago, he mentioned as future developments of slab-lifting, firstly, the incorporation of hollow blocks to lighten the slab and, secondly, the use of prestressing to reduce the steel content. Now, 10 months after his visit to this country, both these developments have been put into practice. The first was described in the JOURNAL for April 17, the second is dealt with on page 649 of this issue. Both these developments, as British engineers pointed out at O'Neil Ford's lecture last year, make slab-lifting more feasible for this country. What then are we waiting for?

R. FITZMAURICE

This week's  
special article

### 1 SOCIOLOGY housing progress

The number preceding the week's special article or survey indicates the appropriate subject heading of the Information Centre to which the article or survey belongs. The complete list of these headings is printed from time-to-time. To each survey is appended a list of recently-published and relevant Information Centre items. Further and earlier information can be found by referring to the index published free each year.

*In the following article Professor Ian Bowen deals with the latest housing returns. He compares the figures with those of earlier post-war years and, taking the present economic situation into account, he suggests that the emphasis now placed on housing may put too great a strain on the building industry.*

More houses were completed in the first quarter of this year than last. This was shown in the recently issued housing returns, which indicated that a total of 21,754 new permanent houses and flats had been finished in Great Britain in the month of March—a greater monthly total than any achieved since the autumn of 1948. The figure for the

whole quarter was 53,609 new houses and flats completed—an increase of 22 per cent. on the number completed in the first quarter of the year 1951.

The Minister of Housing and Local Government has pointed out that the rise in the number of completed houses has made it possible to build more houses for sale, and yet not reduce the

number built for letting. He coined the slogan: "houses to let, and houses to sell."

Houses built for letting were 8,120 more in number than in the first quarter of 1951, while those built for sale had risen by 1,198, to a total of 6,068.

During the same quarter work was begun on more new houses; 59,577 in all, or 34 per cent. more than in the corresponding quarter of 1951. Mr. Macmillan has stated that he is "authorizing local authorities and private builders to get on with their plans for many more," in addition to the recorded increase. As he put it: "The order book is full, and will be kept full."

#### THE HOUSING PROGRAMME

As the programme is running now, it seems quite likely that 230,000 or 240,000 houses will be completed this year: a rise of perhaps 20 per cent. on the total of about 200,000 completed in 1951. An even higher number may be built if the various cuts in the average size of house are fully implemented, and have their effect this year. Targets are nowadays unfashionable, but it would seem that in terms of the number of houses built, the Government intends to secure an increased supply of new houses some 20 to 25 per cent. above the level of 1950 and 1951.

#### HOUSES UNDER CONSTRUCTION

According to Mr. Macmillan's figures the number of houses started in the first quarter of this year exceeded those completed by about 6,300, and this has raised the number "under construction" by a corresponding figure; indeed, the number under construction in England and Wales alone was nearly 193,000 at the end of March, and certainly over 200,000 if Scotland is included. This raises the query whether the policy of filling the order books is not without its special difficulties.

Everyone will agree that one of the main problems for the building industry since 1946 has been the constant reversals or modifications in Government building programmes, especially of those connected with the supply of housing. Even greater difficulties will be met if the present upward boom in permits and orders is followed by a sharp curtailment. What the industry needs above all else, to attain some degree of efficiency, is a well-balanced *long-term* policy, which by its very nature is not likely to be constantly disturbed by every economic breeze, not to mention every political gale or storm.

If the size of the housing programme is not known, and a vague general policy is followed in which the sky is the limit, it can hardly be doubted that slump will follow boom. What might

then happen, if such were indeed the policy (official pronouncements are not specific on the point), would be an increase in the flow of orders, and consequently of the houses under construction, until some breaking-point were reached. Either the price of houses would be driven up beyond the level which even a beneficent state could countenance, or bottlenecks would appear in the supply of specific kinds of labour or materials.

It may be that the Government has in mind some target for housing which it has not seen fit to disclose. Unless it has such a target and limits the orders (that is, the orders of the local authorities and private builders whom it encourages) for housing at some point there will be a financial or other limitation, and a sharp reaction.

#### LABOUR AVAILABLE FOR HOUSING

The men employed on the construction of new houses in Great Britain averaged 237,000 in the first quarter of 1952; some 19,000 more than a year previously, *i.e.*, an increase of  $8\frac{1}{2}$  per cent. (The figure is not complete, as the direct labour employed by local authorities is omitted.) Since the increase in the contractors' labour employed was smaller than the percentage increases of houses being started and finished, it would seem reasonable to suppose that productivity has somewhat increased, possibly because materials are more generally available.

But any further increase in the programme would surely require a yet heavier demand upon the available labour force. This might well mean shortages of skilled labour, despite the recessions in other industries that have enough unskilled workers.

#### LIMIT TO EXPANSION

While at present a kind of balance seems to have been achieved, there must be some upper limit to the expansion that can be economically attained within such a short period as a year. As long as Government defence expenditure involves a considerable volume of building work (the value of work being authorized by Government Departments is not yet falling significantly), a further major increase in the number of houses put out to tender might hinder rather than help the progress of the housing programme. A target of much over 250,000 a year would, in present circumstances, almost certainly have this effect. All the symptoms of an overloaded programme would re-appear.

#### OVERLOADING AND COSTS

Discussions of costs and prices in building often seem to be based on the ancient "Labour Theory of Value," not much taught in this country since the early nineteenth century. In other words, it seems to be assumed that the

price of building is always strictly related to the labour-time that would go into its construction, plus the labour-time that would go into the production of its materials, plus the labour-time that goes into the machinery for those materials—all these labour-times being valued on the basis of current wage-rates and current productivity. There is a fallacy in this argument; it ignores market conditions governing the sale of the building, or, in an equally old-fashioned but perhaps clearer phrase, the forces of supply and demand. These have different short-term consequences than those which might operate after a long period of re-adjustment. In the long run, the labour-cost of things might determine their value; in the short run this is far from being even likely.

#### OVERLOADING TO BE DEPLOYED

Overloading the building industry has the same consequence as bidding up any other kind of product. The price may be raised much more than proportionately to any increase in current labour cost. Conversely, in a slump prices may fall very steeply, and face even competent building firms with years of successive losses.

For these reasons, an overloading of the building programme is to be deplored, not only from the point of view of the public, which pays the piper by way of subsidies, but also from the point of view of the building industry, which suffers from the consequent instability of demand.

#### TYPES AND SIZES OF HOUSES

Not enough material is available to discuss how far the restriction in the average size of houses has yet contributed to the increase in the number completed and under construction. The housing returns show, however, that there has been a considerable increase in England and Wales in the number of non-traditional houses begun (6,175 in the first quarter of 1952 as against 3,735 in the first quarter of 1951). In Scotland the proportion of non-traditional houses has, of course, consistently been very high. The period of construction of non-traditional houses is very much shorter than that for traditional. There are distinct signs of a much greater interest in this part of the programme by the authorities in England and Wales, and this is in many ways the most encouraging feature in the latest statistical report. A time may be coming when the manufacturing industry generally is selling on a buyers' market and, if the non-traditional programmes are skillfully handled, the long-awaited decrease in housing costs may then at last be achieved.

IAN BOWEN

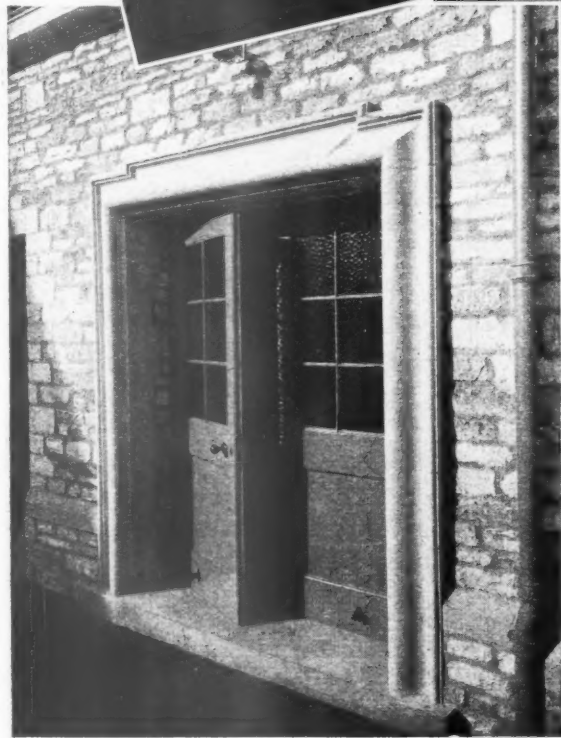
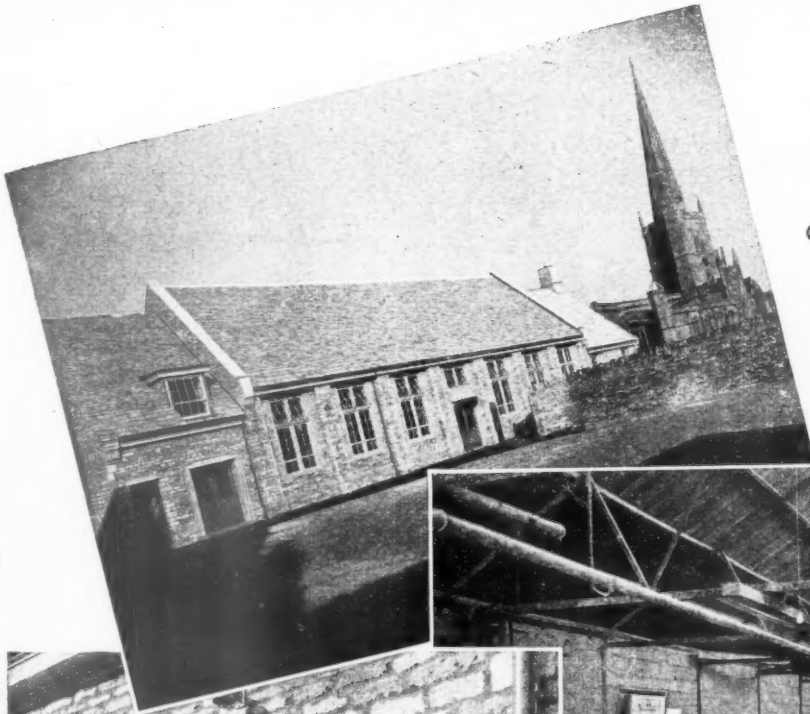
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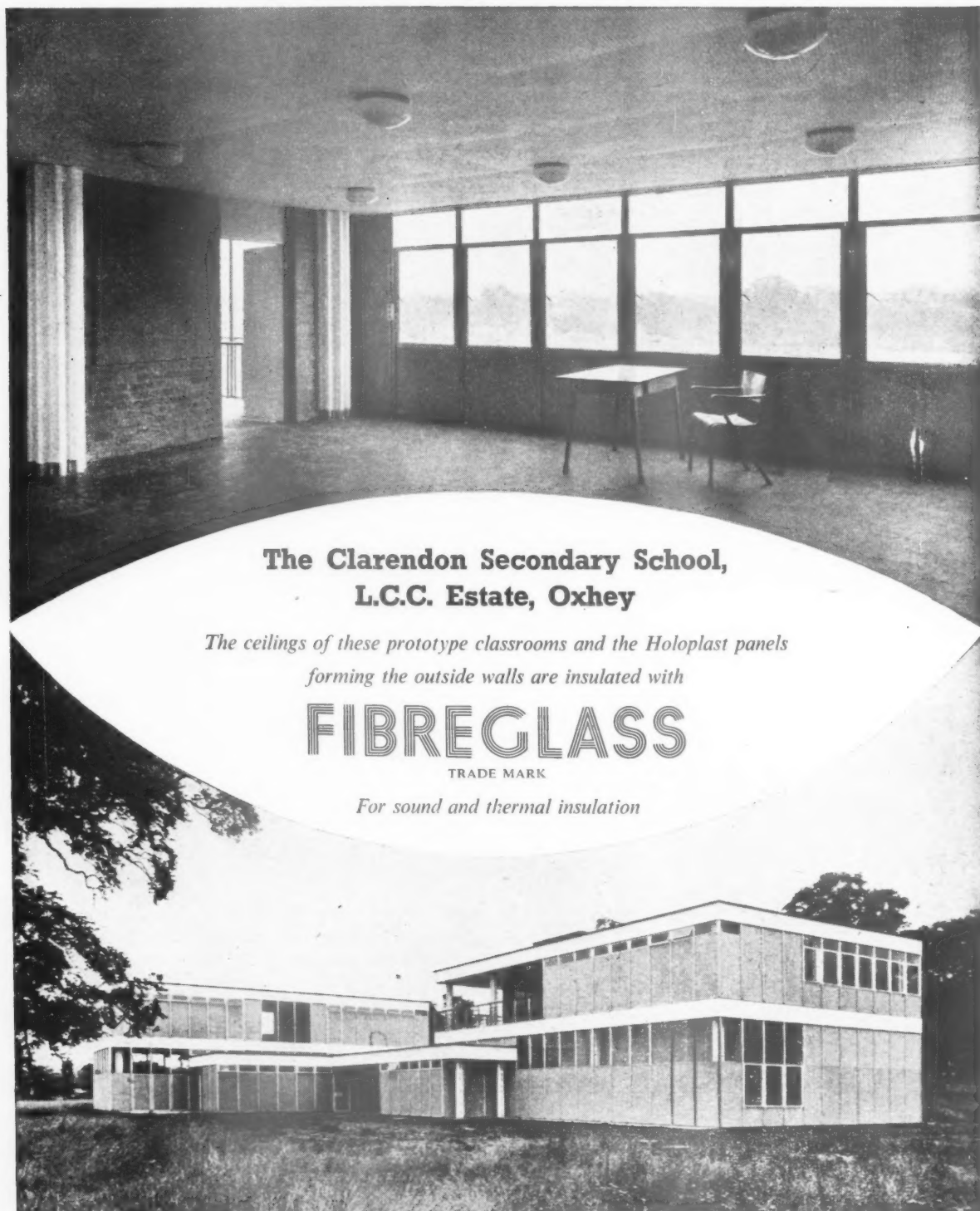
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On this and the two following pages is a review of a book published in Germany recently\*.

It deals with flat planning and the economical arrangement of living space. The author is Siegfried Stratemann and the accompanying illustrations are taken from his book.

## PLANNING THE FLAT

In a recently published book on flat planning, Siegfried Stratemann has attempted to correlate the available information about human domestic requirements. The author has collected and described the work of many architects, which has so far not been published collectively in Germany. Instead of providing standard plans, he has demonstrated the minimum requirements in space and fittings for the small flat.

### GERMAN PROBLEMS

Today there is an urgent need in Germany for more housing accommodation. While recognizing that an adequate solution must quickly be found, the author points out that there is an equally urgent need for economical planning and inexpensive building. The provision of well designed, comfortable homes for families, for single persons and for the aged should remain the ultimate objective. In the first part of his book Herr Stratemann sets out, as a short introduction, the

plans of small and large flats from the period 1790 to 1914. They show how, for example, in Berlin about 1900, large and expensive flats were built, devoid of any coherent planning or attention to appearance. (Figs. 1 and 2.)

After the first World War there was a movement to design better flats in both Germany and Austria. An excellent instance of this is the plan of four flats on one staircase, Fig. 3, designed by Anton Brenner, at Vienna in 1924. However, the economic crisis of 1923 to 1932, in conjunction with the deteriorating social conditions, forced the authorities to reduce the minimum living-space standards. In Vienna during this period the total reduction was from 753.47 sq. ft. to 322.91 sq. ft.

ii. What are the minimum space-requirements for furniture and equipment to ensure that a person can live comfortably with least labour?

iii. What is the smallest space an adult requires for work and comfortable movement?

Since the year 322 B.C., countless artists have tried to define the "Golden Rule" or the "Golden Cut." They based their results on the measurements of the human body. The drawings, such as Figs. 4 and 5, are of purely theoretical interest, because they relate almost exclusively to the human body in formal positions. In contrast to this, the author asserts the importance of studying the body at work and asleep, in movement and in relaxa-



Figs. 1 and 2. Above, left, small flats without corridors at Frankfurt-Oder, about 1895. Above, right, flats with four, five and six rooms. They are built round ventilating shafts with backyards never reached by the sun.

### ANTHROPOMETRIC HELP

In his attempt to find some generally valid guide for planning, the author poses three questions:

i. In what way do the proportions of the human body affect the living space a person requires?

tion. An elementary analysis is shown in Fig. 6.

### KITCHEN SIZES

Herr Stratemann begins his practical discussion with the kitchen: the housewife's workroom. In relation to the

\*Siegfried Stratemann. *Grundrisslehre Die Stockwerkswohnung*. Second revised edition. Berlin-Tempelhof, Verlag des Druckhauses, 1951, 196 p. 814 ill.

### KEY

1. Gas meter and meter recess.
2. Tiled stove.
3. Cloaks recess.
4. Folding bed.
5. Clothes and linen cupboard or wardrobe and linen cupboard.
6. Wall screen to surround the bed in daytime.
7. Double bed.

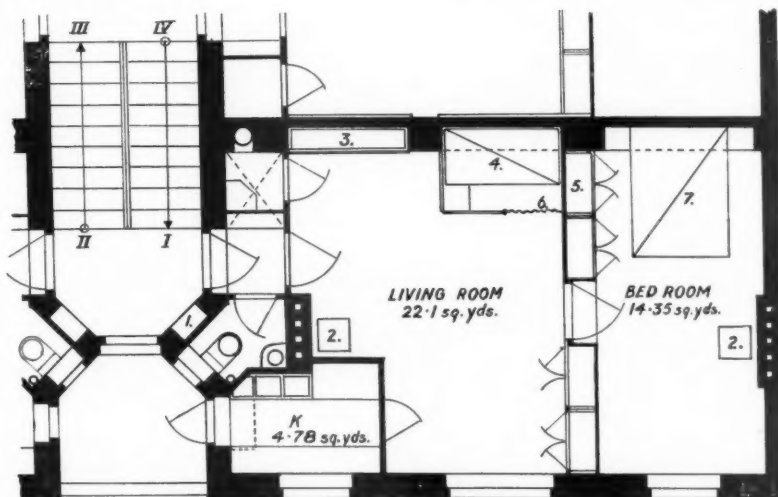


Fig. 3. Above, plan of one of four flats on one staircase arranged in pairs at staggered levels. This is one of the most interesting solutions of early economical planning. Although, in its particular form, it is no longer applicable today, the idea behind it is still fresh. Architect: Anton Brenner, Vienna, 1924.

# This Specialized Age . . . .

## No. 10 The Entomologist

*Playing a vital part in the fight against disease is the Entomologist who specializes in the study of the innumerable hordes of insects which exist. Painstakingly examining and classifying these minute creatures, his work helps the onward march of civilisation.*

This is the age of specialization. With the advance of modern knowledge, no one man is able to excel in everything and in the field of human endeavour the final product is inevitably the result of co-operation by specialists. So it is with architectural planning. Working under the captaincy of the architect, the team of specialists all play their part and take responsibility for different sections of the project. Over the years, Lockhart Equipment Ltd., have gained a reputation as specialists in the planning and equipping of Industrial Canteens, Hotels and Restaurants. Experienced technicians are at all times available to provide specialist service to the architects, which includes the preparation of layout plans and the submission of appropriate quotations, whether it be for a completely new installation or the reorganisation of existing facilities. Lockhart Equipment Ltd., offer a fully comprehensive service whereby every item of catering equipment from the largest refrigerator down to the smallest piece of crockery, cutlery, furniture, linen, etc., is planned for and supplied so that the whole unit can be handed over complete and ready for operation.

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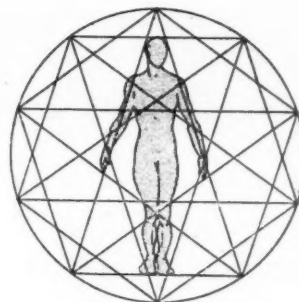
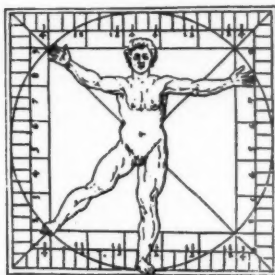
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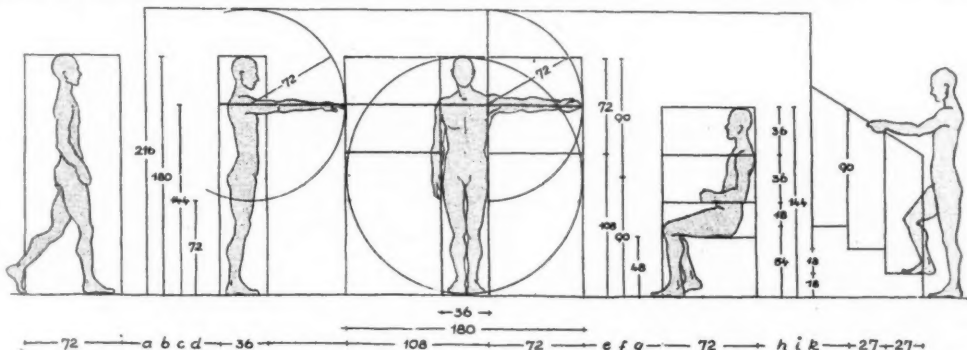
human body he shows the right and wrong shapes and dimensions of ironing boards, Fig. 7, and cooking stoves, Fig. 8. In addition he discusses similar requirements for preparing food, Figs. 9 and 11. Problems of storage, Fig. 10, access to kitchen cupboards, the best sitting accommodation while at work, etc., are also described and suggested solutions offered.

Three types of kitchen are considered: the living-kitchen, the living-room with kitchen recess, and the small working kitchen. Only the latter type, Fig. 12, has been found generally desirable. Amongst the minimum requirements are adequate cupboard space for



Figs. 4 and 5. Above, left, homo quadratus, after Aristotle (d. 322 B.C.). Historically, this is not entirely authentic. Above, right, the human body fitted into the double pentagon and the "Golden Rule," after Wolfers-Sulzer (about 1930).

Fig. 6. Right, a study of the human body in various positions. As the author points out, the modular ratio for the proportions of the human body cannot, in nearly all cases, be established mathematically. (Dimensions in centimetres.)



brooms, etc., and storage room for large saucepans and other cooking utensils only occasionally used.

#### SPATIAL NEEDS

The author then goes on to deal with the other requirements in flats. Although the number of beds and bedrooms should be the deciding factor for every small living unit, he finds that many drawings show that bedrooms are planned on the smallest scale. The sizes and shapes required for ease of movement between the beds, etc., and sufficient storage space, are discussed and illustrated. A child's bedroom

requires a table and chair for homework. Also for children, there have been experiments to gain space by putting beds either in tiers or having them folded up against the wall in daytime. Neither has proved to be a satisfactory solution.

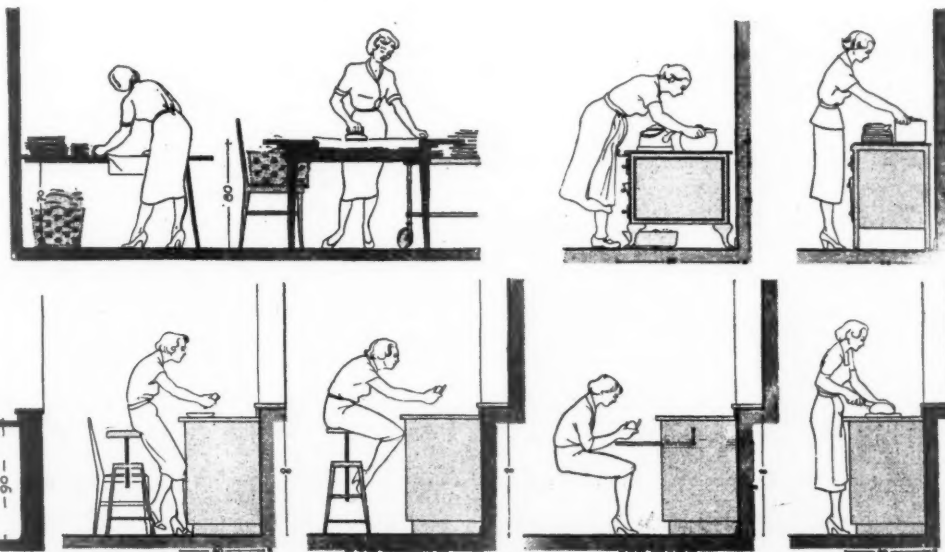
#### MINIMUM NEEDS

Beginning with the smallest possible design, the author discusses and illustrates, with many examples, what can be done when more space is available. The most economic and convenient access for more than one flat from public staircases, the possibility of combining the plumbing of several

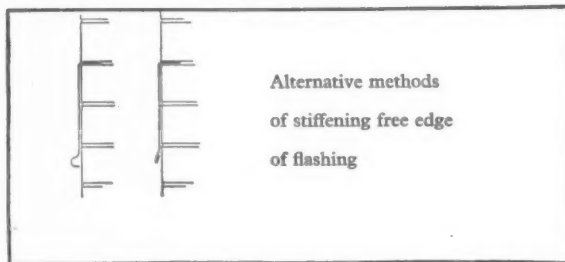
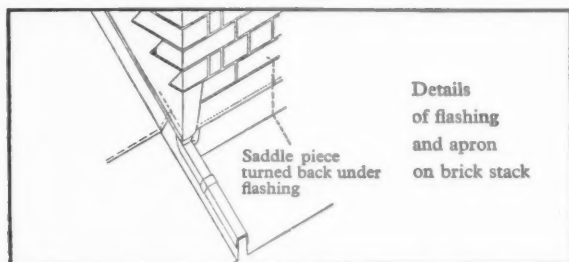
flats, Fig. 13, communal laundry facilities, and basements used for fuel stores are dealt with.

A recent report in Germany revealed that 98 per cent. of all single persons objected to living in hostels or lodgings. Those occupying houses or large flats would gladly relinquish them for needy families if only small flats were available for them. The author recommends that in all new housing small flats for single people should be included, and suggests making better use of space immediately under the roof for this purpose. These small units might have shared bath-

Figs. 7, 8 and 9. Right, the right and wrong methods of ironing and working at the stove. Below, the right and wrong tables for preparing food. (Dimensions in centimetres.)



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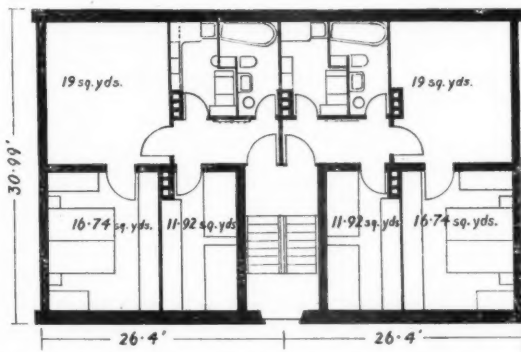
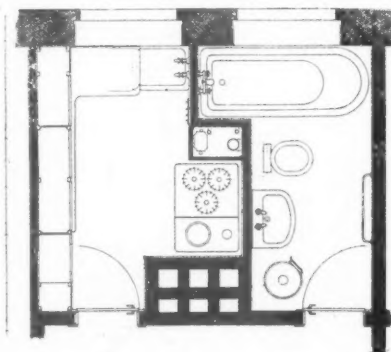
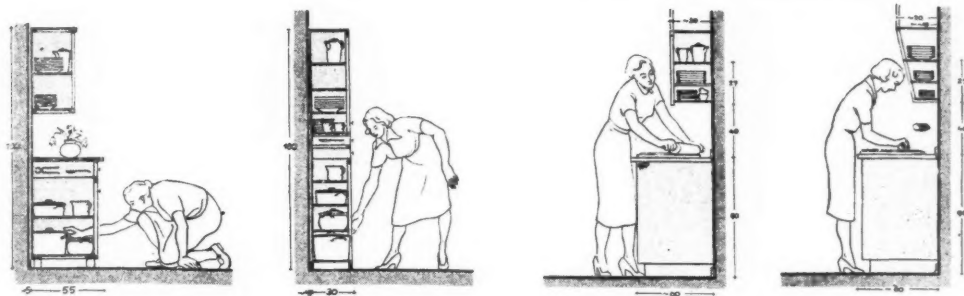
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Figs. 10 and 11. Right, a comparison between two types of kitchen storage cabinets. Extreme right, wall units above the food preparation area compared. The right-hand unit is after the Swedish pattern. (Dimensions in centimetres.)



Figs. 12 and 13. Extreme left, a small working kitchen with adjoining bathroom. Left, an example showing how two flats can be served by one plumbing system without loss of floor area.

rooms, but should be as far as possible self-contained, with separate water supply and cooking facilities.

In part three of the book he deals with the internal planning of flats, showing with great thoroughness some 200 possible variations all within the given areas; kitchens, living-room and bedrooms in relation to each other, and

different ways of arranging furniture in them. The fourth part contains dimensions in tabulated form and drawings in elevation of the required area for furniture. Whole flats, staircases and under-roof-space are shown in perspective drawings.

All the information is given in metres and, in addition, the difference between

English and German planning and building practice must be taken into consideration. But the material is carefully collected and the plans and drawings are mostly self-explanatory, always starting with the basic requirements, and developing from them.

The whole work provides a new, original and useful source of reference.

## INFORMATION CENTRE

*A digest of current information prepared by independent specialists; printed so that readers may cut out items for filing and paste them up in classified order.*

### 2.121 planning: general URBAN HINTERLANDS

*Bus Services as an Index to Changing Urban Hinterlands.* F. H. W. Green. (The Town Planning Review, pp. 345-356, Jan., 1952.)

The author is doing much valuable work in determining the size and shape of areas for which towns serve as a focal point for one purpose or another. This essay, which is with particular reference to Somerset, shows how the plotting of bus services can provide a short cut to defining the average spheres of influence of centres performing urban functions.

### 2.122 planning: general PLANNING LAW

*The Law and Practice of Town and Country Planning.* Percy Lamb and Montagu Evans, assisted by Alan Fletcher. (Staples Press Ltd, 1951.)

Fine work of reference on planning law containing much information on valuation problems, including many examples, 898 pages, including 25 pages of index. Recommended.

This is one of the few legal books which a non-legal reader can expect to use fairly easily. As only to be expected the larger part of the text is concerned with amplifying the 1947 Act, but at least a third is taken up with other statutes, e.g., Housing and London Building Acts, New Towns Act, and the National Parks Act. Text of the different Acts is not given but the full text is given of a large number of statutory instruments and various pamphlets and circulars.

### 6.38 planning: social and recreational FAR EAST RESETTLEMENT

*United Nations and Resettlement in the Far East.* Robert Gardner-Medwin. (The Town Planning Review, pp. 283-298, Jan., 1952.)

The author was one of the experts who reported to UNO on low-cost housing in South and South-east Asia. Illustrated.

In this article the author gives some personal impressions of the problems in the countries of the Far East and of the heroic scale of regional and community planning

which has to be attempted in those parts of the world. He concludes by summarizing the possible international remedies, particularly those which the United Nations seem likely to support. An excellent general account. Recommended.

### 13.86 timber EXTERNAL FINISHES

*Natural Finishes for Exterior Wood.* F. L. Browne. (Architectural Record [USA], Feb., 1952.)

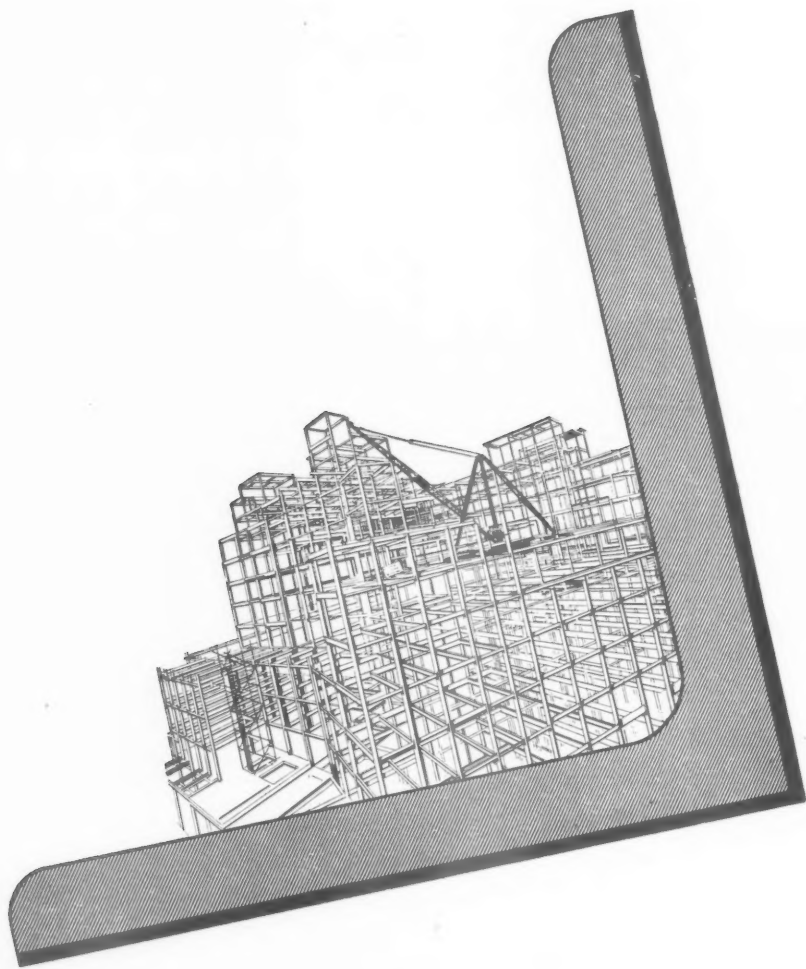
Useful article on how to preserve natural wood finishes on exterior work. The author is on the staff of the Forest Products Laboratory, Madison. Oil finishes, wood sealer finishes and varnish finishes all require renewal at more frequent intervals than paint. Good detailed information.

### 15.97 materials: applied finishes and treatments TILING FAILURES

*Failures of Wall and Floor Tiling—Their Causes and Prevention.* E. H. Waters. (Commonwealth Scientific and Industrial Research Organization, Melbourne, 1951.)

Summary of existing knowledge. Recommendations.

This 13-page report gives a simple summary of the causes of failure in wall and floor tiling with a list of recommendations on how to avoid it. Although nothing new arises, a number of points are mentioned which are not widely known and the document is a useful one. Interesting is the suggestion that tiles can be set in adhesives instead of mortar. This method is not yet



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## A NEW SELF-ERECTING CRANE

In use for the first time in this country is a new self-erecting Swiss tower crane. It is being used in the construction (by G. E. Wallis & Sons, Ltd.) of a seven-storey office block in London Bridge Street, designed by J. S. Lacey. The crane, which is 100 ft. high and has a reach of 52 ft., can be erected in 6 hours. The erection, which is hand operated, is a "scissors" action, as seen in the photograph below. The crane is rail-mounted and there are five working positions for the jib. It can travel, slew and lift in one movement, and in 2 minutes can take its load through 180°, along a 60-ft. run and up 100 ft. and return to its original position. The maximum load at full reach is 15 cwt.; at a 19-ft. 6-in. radius it is 2 ton. As seen in the photograph above, the crane is rail mounted. The stabilising weight is provided by 7 tons of bricks stacked in the wire cage seen in the photograph below.



common and there is insufficient evidence that the claims made can be fully justified, but it is a development which may eventually cause a large change in tiling technique.

## 19.148 construction: details

## PRESTRESSED CONCRETE SLABS

*Slab-lift Concrete Roof Prestressed.* F. E. Koebel. (Engineering News Record [USA] April 10, 1952. pp. 77-78.)

A prestressed slab lifted by Youtz Slick slab-lift method reduced steel requirements by 50 per cent. Interesting to architects and engineers.

The disadvantage of the reinforced concrete lifted slab has been its weight of reinforcement, as much as 3½ to 4 lb./sq. ft. Experiments at San Antonio, Texas, have been successfully made on a prestressed concrete slab allowing a thinner slab and a reinforcement weight of only 1.6 lb./sq. ft. As described in the JOURNAL of April 17, this can only be achieved in similar circumstances by using a cellular type slab 13 in. in depth.

The roof slab is 88 ft. by 38 ft. and 6 in. thick, supported on steel columns at 24-ft. centres, cantilevering 6 to 10 ft. beyond the columns at the ends and sides of the building.

Prestress was applied in two directions after the concrete had hardened; in the 88-ft. length of the slab by a series of groups of 6 asphalt-coated wires spaced at 12-in. centres, allowing a cable eccentricity of plus or minus 2 in.; in the 38 ft. span, the wires were placed in pairs at 12 in. centres, but a section of the cantilever slab was omitted leaving the wires continuous across the gap. Hydraulic jacks were inserted forcing the two slabs apart and tensioning the steel and compressing the concrete. The gap was then filled by a quick setting grout and the jacks later removed. The other group of wires were stressed by the usual jacking technique, using end-bearing plates which were later concreted into the slab.

The advantage of the system is the reduced shear stresses at supports, making possible less shear reinforcement, lighter slabs or longer spans. Cost of the prestressed construction is comparable with that of ordinary reinforced concrete.

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AJ. 22.5.52

# Buildings Illustrated

*Clappers Farm, Chobham, Surrey.* (Pages 628-629.) Architect: John R. Harris, A.R.I.B.A. General contractor: G. H. Anscamb. Sub-contractors: concrete blocks, Guildcrete Ltd.; reinforced concrete, Stent Precast Concrete Ltd.; bricks, Uxbridge Flint Brick Co. Ltd.; special roofings, Turners Brothers Asbestos Co. Ltd.; milking equipment, Gascoignes Ltd.; dairy equipment, Aveling Barford Ltd.; electric wiring, Southern Electricity Board; door furniture, P. C. Henderson Ltd.; sliding door gear; agricultural windows, Henry Hope & Sons Ltd.; tubular farm gates, J. R. Gorwood & Co.; tubular fencing, yolks, manger divisions, automatic water bowls, bull pen and calf pen equipment, George W. King, Ltd.; external colour wash, Cement Marketing Co. Ltd.

*Pithead Baths & Medical Centre at Brookhill Colliery, Pinxton, Nottinghamshire, for the National Coal Board, East Midlands Division.* (Pages 632-633.) Architects: National Coal Board, Architects' Department. Associated architects: D. G. Thornley, B.A., A.R.I.B.A. and J. W. M. Dudding, F.R.I.B.A., A.I.L.A. General contractor: Henry James (Mansfield) Ltd. Quantity surveyor: Irving B. Todd, F.R.I.C.S. Clerk of Works: E. Spiller & C. E. Hibbert. General foreman: A. Fensom. Foreman joiner: W. Platts. Sub-contractors: dampcourses (slate D.P.C.), Builders Supply Co.; asphalt, Highways Construction Ltd.; reinforced concrete, Matthews & Mumby Ltd.; bricks (Whitwich sand stocks), National Coal Board; grid

screen by car park, J. & A. King & Co. Ltd.; artificial stone, W. Prestwick & Sons Ltd.; quarry tiles (granitic) J. C. Edwards Ltd.; structural steel, Bannister Walton Ltd.; precast roof beams, Matthew & Mumby Ltd.; partition between locker rooms, Flexo Plywood Industries Ltd.; glass, Pilkington Bros. Ltd.; patent glazing, Helliwell & Co. Ltd.; woodblock flooring, The Granwood Floor Co. Ltd.; central heating and boilers and ventilation, Young Austin & Young Ltd.; electric wiring, W. Scott & Co.; electric light fixtures, Ascog Ltd. of London, General Electric Co., Benjamin Electric Co.; sanitary fittings, Adamsez Ltd.; door furniture Dryad Metalworks Ltd.; casements, Doodson & Baine Ltd.; iron staircases, W. J. Furse & Co. Ltd.; revolving doors, Colmans; sun-blinds, J. Avery & Co.; window furniture, Doodson & Baine Ltd.; metal faced and plywood faced doors, Flexo Plywood Industries; plaster, Cafferata & Co.; tiling, S.G.B. (Dudley) Ltd.; steel lockers, Dento Sheet Metal & Engineering Co. Ltd.; shrubs and trees, Wm. Barron & Son Ltd.; office fittings, Constructors Ltd.; hoist, Herbert Morris; clocks, G. F. Cope & Co.; cement glazed dadoes, Robbs Cement Enamel Finishes Ltd.; lamp standard, Concrete Utilities Ltd.; glazed concrete panels to covered way, Haywards Ltd.; fire extinguishers, Pyrene Co. Ltd.; paint and distemper, Henry Matthews & Co. Ltd.; Vectair type radiators, British Train Co. Ltd.; metal cupboard front in treatment room and hatch sliding doors and frames in Attendants' room and First Aid Box store, James Gibbons Ltd.; terrazzo, A. Fiori & Co.

*Showroom for Jacobs Linen, Ltd., at 233, Tottenham Court Road, London, W.1.* (Pages 634-635.) Designer: J. Edward Sander. General contractor: Andrew A. Pegram, Ltd.

Sub-contractors: electric wiring, E. Wright & Co. (Muswell Hill), Ltd.; light fittings, Troughton & Young, Ltd.; rubber flooring, H. Emanuel, Ltd.; plastering, F. J. Blacker.

*Elderly Peoples' Home at Eversfield House, Mulgrave Road, Sutton, Surrey.* (Page 636.) Architect: Alan Stubbs, L.R.I.B.A.; Assistant architect, Edward Wharnsby. General contractors: A. Roberts & Co. Ltd.; Sub-contractors: rooflights, Aygee Ltd.; electrical work, Edwin N. Tucker Ltd.; flooring, Marbolith Flooring Co.; woodblock flooring, Broad & Co.; suspended ceiling, Tentest Fibreboard Co.; sanitary work & ironmongery, Baldwins (Birmingham) Ltd.; gas fires, W. N. Froy & Sons; heating, plumbing and gas insulation, P. Clowes & Sons Ltd.; reinforcing fabric and rods, Twistell Reinforcement Ltd.; facing bricks, Uxbridge Flint Co. Ltd.; cills, copings and artificial stone, Costain Concrete Co.; metal windows, Williams & Williams Ltd.

*Tractor Repair Depot, Offices & Showrooms at Bumpers Lane, Sealand Road, Chester.* (Pages 639-642.) For Knutsford Motors Ltd. Architect: Aileen Tatton-Brown, B.A., A.R.I.B.A. General contractor: John Hughes (Contractors) Ltd. Sub-contractors: excavation and foundations, R. R. & J. Williams Ltd.; concrete blocks, Concrete Ltd.; structural steel, Redpath Brown & Co. Ltd.; tiles, Carter & Co. (London) Ltd.; special roofings, Turners Asbestos Cement Co. Ltd.; terrazzo flooring, Quilgotti & Co.; central heating and stoves, Saunders & Taylor Ltd.; Weatherfoil Heating Systems Ltd.; flue boilers, Towler & Smith Ltd.; electric wiring, N. G. Bailey & Co. Ltd.; patent glazing and casements, W. G. Kaleyards Ltd.; folding gates, Bolton Gate Co. Ltd.; fibre board ceiling, Insulate Services Ltd.; signs, D. Matthews & Sons.

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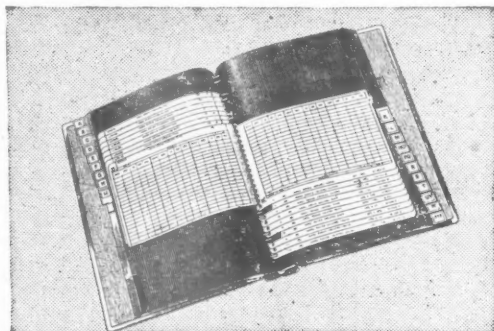
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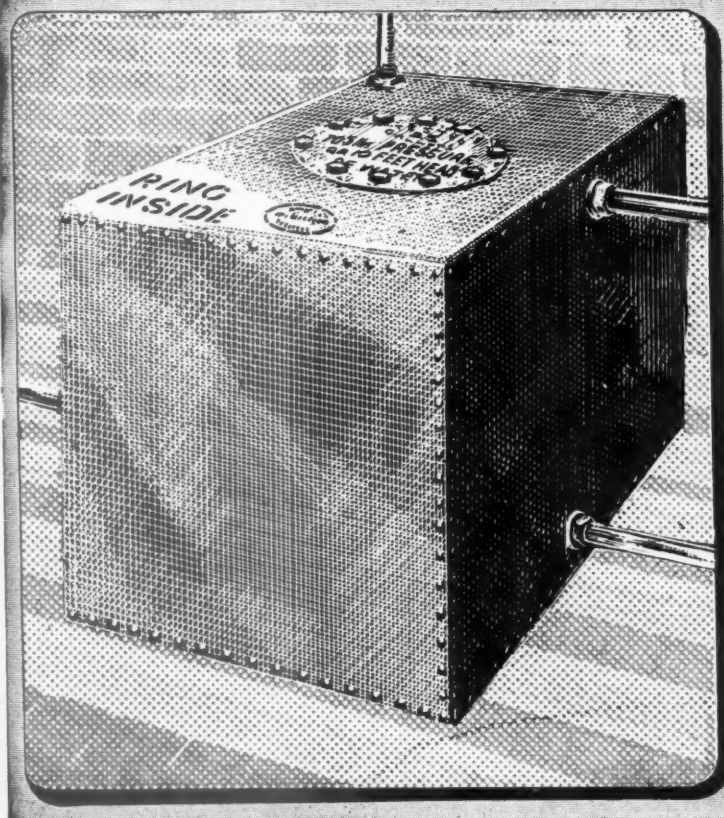


The Managing Director's Office, Messrs. Thomas De La Rue & Co. Ltd., London W.1. Architects: Messrs. J. Stanley Beard, Bennett & Wilkins. The boardroom table and chairs, in walnut, were recently supplied by Heal's Contracts Ltd., to the architects' designs. The tabletop is covered in 'Formica' and the chair seats in cream hide, with green wool fabric on the sides and back.

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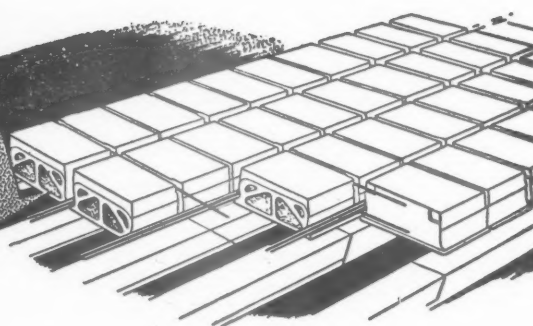
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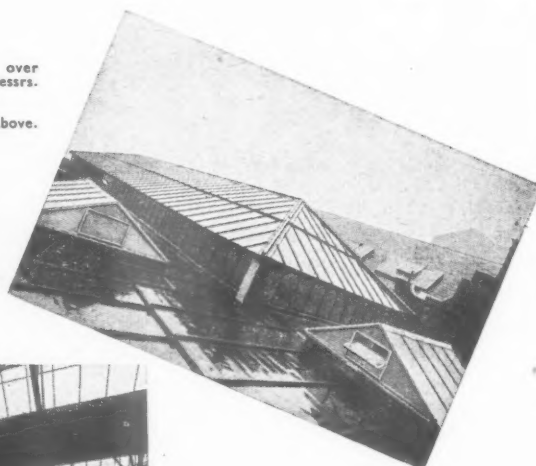
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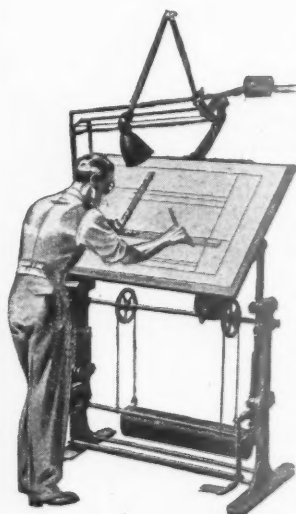
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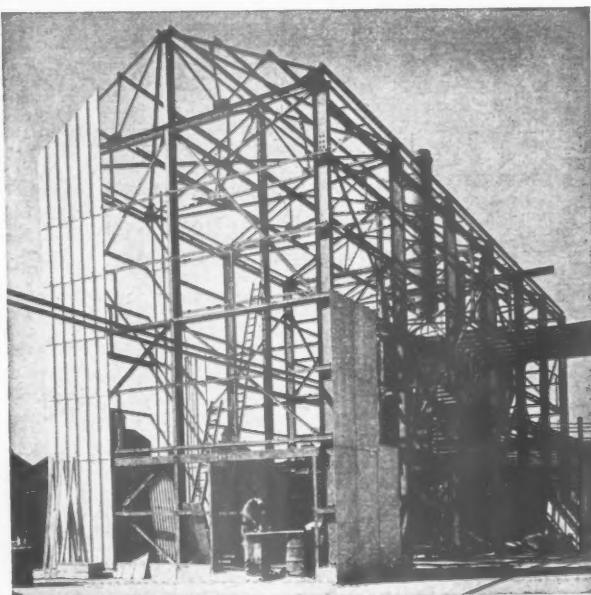


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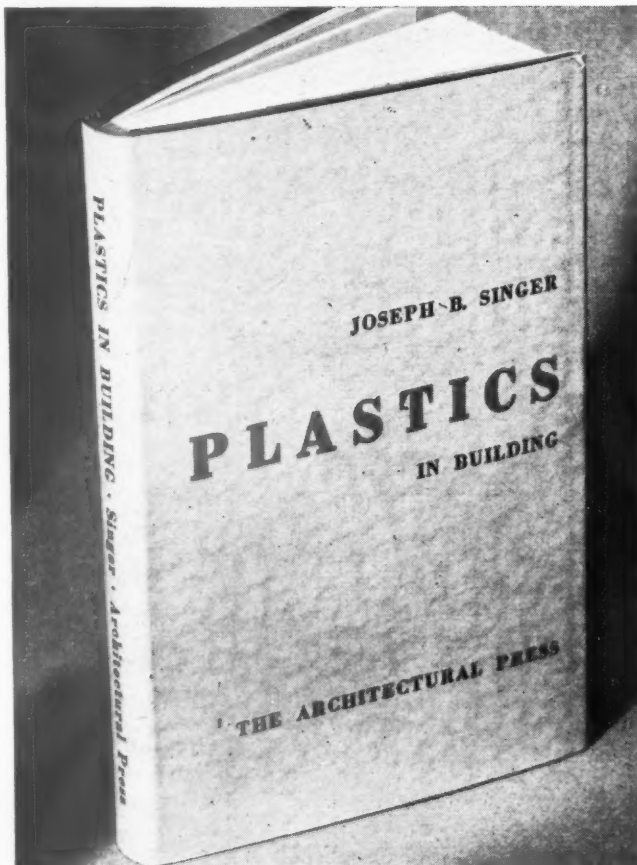
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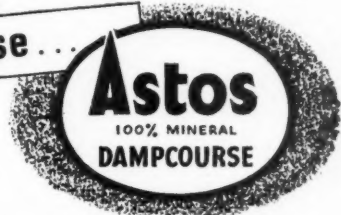


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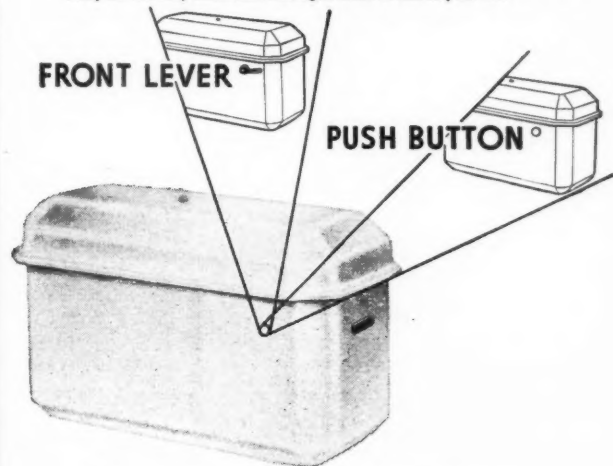
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Two new stars in the Fordham range. The LSF, a low-level syphonic cistern with an attractive chromium plated handle on the front, and the LSPB, the only one of its kind operating a syphon, for those who prefer push-button operation. Both models have all the well-tried Fordham features, so send today for the fully illustrated catalogue sheet to add to your file.



## Fordham

*Creators of the first—makers of the latest seamless steel cistern.*

FORDHAM PRESSINGS LTD., DUDLEY RD., WOLVERHAMPTON  
Telephone: Wolverhampton 23861.

## CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there first post on Friday morning for inclusion in the following Thursday's paper.

Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address given above.

## Public and Official Announcements

25s. per inch; each additional line, 2s.

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

METROPOLITAN BOROUGH OF HACKNEY.  
BOROUGH ENGINEER AND SURVEYOR'S  
DEPARTMENT

**APPOINTMENT OF ASSISTANT ARCHITECT.** Applications are invited for this permanent appointment at a salary in accordance with Grades A.P.T., Va-VI (£600 p.a. to £710 p.a.) plus London Weighting Allowance. The commencing salary may be fixed at a point above the minimum according to the qualifications and experience of the successful candidate.

Candidates must have had a good general experience in design and construction and hold an appropriate professional qualification.

The successful candidate will be required to undertake the oversight of the maintenance of Council's properties, including the preparation of specifications for and the technical supervision of repairs, alterations and improvements, in addition to general architectural work.

Conditions of appointment and application form may be obtained from the undersigned upon receipt of a stamped addressed foolscap envelope.

Completed application forms endorsed "Assistant Architect" must be returned not later than first post on 30th May, 1952. The Council is unable to provide any housing accommodation for the successful candidate.

DUDLEY SORELL,  
Town Clerk.

Town Hall, Hackney, E.8.  
6th May, 1952. 6826

## AMENDED ADVERTISEMENT.

BOROUGH OF SHREWSBURY.  
BOROUGH SURVEYOR'S DEPARTMENT.  
CHIEF ARCHITECTURAL ASSISTANT.

Salary A.P.T., Grade VII.  
Applications are invited for the appointment of Chief Architectural Assistant, salary A.P.T., Grade VII (£685-£760 per annum).

Applicants must be well experienced in the design and construction of dwelling houses and in the preparation and administration of housing and general building contracts.

Experience of specification writing is essential and candidates should have passed the Final Examination of the R.I.B.A. or the R.I.C.S.

Housing Accommodation in the form of a flat will be available if required.

The appointment will be subject to the National Scheme of Conditions of Service, the provisions of the Local Government Superannuation Act, 1937, and to the passing of a medical examination and will be terminable by one month's notice on either side.

Applications must be submitted on the forms to be obtained from the Borough Surveyor, Mr. F. R. Dinns, A.M.I.C.E., Guildhall, Shrewsbury, and must be received by him not later than Saturday, 31st May, 1952.

S. R. H. LOXTON,  
Town Clerk.

Guildhall, Shrewsbury.  
8th May, 1952. 6842

## COUNTY BOROUGH OF EAST HAM.

## BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the undermentioned appointments on the permanent staff:—

**SENIOR ARCHITECTURAL ASSISTANT.** Grade A.P.T. VI (two vacancies). Salary £645 to £710 per annum.

**SENIOR ENGINEERING ASSISTANT.** Grade A.P.T. VI (two vacancies). Salary £645 to £710 per annum.

**ENGINEERING ASSISTANT.** Grade A.P.T. V (three vacancies). Salary £570 to £620 per annum. The appropriate London Weighting (£10 per annum to £30 per annum, according to age) is paid in addition to the above salaries and salaries in excess of the minima of the grades may be paid according to the qualifications and experience of successful candidates.

The Council will be prepared to consider applications for a subsistence allowance in appropriate cases from persons appointed should they be unable to obtain suitable housing accommodation.

Full particulars of the terms and conditions of appointment and form of application (which must be returned by Tuesday, the 3rd June, 1952) may be obtained from the undersigned. Candidates must state for which post they are applying.

Canvassing in any form will disqualify.

R. H. BUCKLEY,  
Acting Town Clerk.

Town Hall, East Ham, E.6. 6841

## BOROUGH OF BRIDGWATER.

## APPOINTMENT OF BOROUGH ARCHITECT.

Applications for the above appointment are invited from qualified Architects, with wide Municipal experience, especially in housing. Salary £850 per annum, rising by increments of £50 per annum to a maximum of £1,000 per annum.

The person appointed will be responsible for the whole of the Council's architectural work, and the appointment will be subject to the recommendations of the Joint Negotiating Committee for Chief Officers of Local Authorities.

The appointment is also subject (a) to the provisions of the Local Government Superannuation Act, 1937, (b) to the passing of a medical examination, and will be terminable by three months' notice on either side.

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, must reach the undersigned not later than the 26th May 1952.

Canvassing in any form will disqualify, and applicants must disclose whether they are related to any member or senior officer of the Council.

H. A. CLIDERO,  
Town Clerk.

Town Hall, Bridgwater.  
30th April, 1952. 6806

## BOROUGH OF EALING.

## BOROUGH ENGINEER AND SURVEYOR'S

## DEPARTMENT

## APPOINTMENT OF TOWN PLANNING

## ASSISTANT.

Applications are invited for the permanent appointment of Town Planning Assistant, at a salary in accordance with Grade VI of the A.P.T. Division of the National Scheme of Conditions of Service, commencing at £675 per annum, rising by annual increments of £740 per annum, inclusive of London weighting.

Candidates must have had a wide practical experience of town planning and knowledge of the Town and Country Planning Act, 1947, and its Regulations, and possess a recognised planning qualification.

The Council is unable to provide housing accommodation for the successful candidate.

Forms of application, together with Conditions of Appointment, may be obtained from the Borough Engineer and Surveyor, Town Hall, Ealing, W.5, and must be returned to me not later than the 3rd June, 1952.

E. J. COPE-BROWN,  
Town Clerk.

Town Hall, Ealing, W.5.  
7th May, 1952. 6821

## NORTH THAMES GAS BOARD.

## A SENIOR ARCHITECTURAL ASSISTANT is required in the Architectural Section, Chief Engineer's Department, Westminster.

Applicants, who must be Registered Architects and who should have passed, or be studying for, the Final Examination of the R.I.B.A., should be capable of preparing working and detailed drawings and specifications, and supervising and controlling the work on contracts. Experience in design and planning of industrial buildings would be an advantage.

Starting salary, depending on age and qualifications, will be within the range £650-£800 per annum. The appointment is of a permanent nature and pension arrangements will be discussed with short list candidates.

Applications, stating age, qualifications and particulars of previous appointments held, must be submitted to the Staff Controller, North Thames Gas Board, 30, Kensington Church Street, London, W.8, quoting reference 666/32. 6849

STEPNEY M.B.C. requires TWO ARCHITECTURAL ASSISTANTS (Unestablished), preferably holding appropriate professional qualifications, and experienced in the preparation of design, layout, working drawings, detailed specifications for housing schemes, etc. Salary £645-£710 p.a., plus London Weighting Allowance. Applications to be made to J. E. ARNOLD JAMES, Town Clerk, London Fruit Exchange, Duval Street, E.1. 12th May, 1952. 6844

## MINISTRY OF EDUCATION.

Applications are invited for a post of ARCHITECT in the Architect's and Building Branch (of the Ministry of Education). (The appointment will be temporary at first, but there may be an opportunity for establishment later.) The successful applicant will be appointed to the Basic Grade or to the Main Grade, depending on qualifications and experience.

Salary: Main grade (men), £970, by 8 increments to £1,280; (women), £965, by 8 increments to £1,126. Basic grade (men), £628, by 12 increments to £970; (women), £628, by 10 increments to £865.

A special salary would have to be agreed if the successful candidate were under 25 years of age.

The work on which the successful applicant will be engaged consists of the study in principle and detail of the design and construction of educational buildings and of their service, fittings and furniture; and the application of the results to school projects. The work requires a knowledge of contemporary building methods, experience of development work and of educational buildings would be an advantage.

Applications, giving full particulars, including present emoluments and the names of two referees, should reach the Director of Establishments and Organisation, Ministry of Education (Curzon Street, London, W.1), not later than two weeks after the date of this advertisement. 6859

## COUNTY OF LINCOLN—PARTS OF

## KESTIVEN.

## COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments in the County Architect's Department:—

(a) **CHIEF QUANTITY SURVEYOR.** Salary will be in accordance with A.P.T., Grade VII, i.e., £685-£760 per annum.

Candidates should be fully experienced in the preparation of quantities, specifications, site measurements, estimates, and settlement of contracts and accounts.

(b) **ARCHITECTURAL ASSISTANT.** Salary will be in accordance with A.P.T., Grade III, i.e., £500-£545 per annum.

Candidates should have had good general experience in design and construction of buildings, and preference will be given to those who have passed the Intermediate examination of the R.I.B.A.

(c) **ASSISTANT BUILDING INSPECTOR.** Salary will be in accordance with A.P.T., Grade II, i.e., £470-£515 per annum.

Candidates should be fully experienced in the Building trades, be able to understand drawings and bills of quantities, and carry out supervision of maintenance of County buildings.

Commencing salary in each appointment will be according to experience, and car and subsistence allowances will be paid on the National Joint Council's Scale.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, to satisfactory medical certificates, and to one month's notice in writing on either side.

Applications, stating which appointment is desired, and giving full particulars of age, experience, qualifications and present appointment, together with the names and addresses of two referees, should reach the undersigned not later than the 31st May, 1952. Canvassing, either directly or indirectly, will disqualify.

J. E. BLOW,  
Clerk of the County Council.

County Offices, Sleaford, Lincs.  
13th May, 1952. 6854

## CITY OF OXFORD.

## CITY ARCHITECT AND PLANNING

## OFFICER'S DEPARTMENT.

Applications are invited from fully qualified Architects for the under-mentioned posts on the Permanent Staff of the City Architect and Planning Officer's Department:—

(a) **SENIOR ARCHITECTURAL ASSISTANT.** Grade VI, A.P.T. Division, £645-£820 (2) × £25 (1) — £710 p.a.

(b) **ARCHITECTURAL ASSISTANT.** Grade V, A.P.T. Division, £570-£615 (2) × £20 (1) — £620 p.a.

Applicants must be Registered Architects, capable of preparing sketch designs, full working drawings, specifications, etc., and competent to undertake educational, housing, and general architectural work.

Housing accommodation will be provided by the Council for one of the posts, if required.

The appointments will be subject to the National Conditions of Service, the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination.

Further details of the duties and Application Forms, which must be used in applying for the posts, may be obtained from E. G. Chandler, A.R.I.B.A., A.M.T.P.I., City Architect and Planning Officer, Town Hall, Oxford.

When writing for Forms, applicants must state clearly for which post they wish to apply, and these forms must be returned to the City Architect and Planning Officer not later than the 6th June, 1952.

HARRY PLOWMAN,  
Town Clerk.

Town Hall, Oxford. 6855

## CANNOCK URBAN DISTRICT COUNCIL.

## ASSISTANT QUANTITY SURVEYOR.

Applications are invited for above-named appointment in the Architect's Department of the Council, the commencing salary to be fixed according to the qualifications and experience of the successful applicant, but not to exceed the maximum of Grade A.P.T. V(a) (£660 per annum).

The provision of housing accommodation for the successful applicant, if required, will be considered by the Council.

Forms of application and further particulars are obtainable from the undersigned.

Closing date, 9th June, 1952.

W. C. SPEEDY,  
Clerk of the Council.

Council House, The Green,  
Cannock, Staffs.  
14th May, 1952. 6852

## BOROUGH OF WATFORD.

## APPOINTMENT OF ASSISTANT

## ARCHITECT.

Applications are invited for the above appointment, at a salary within Grade A.P.T., IV (£530-£575), with commencing salary according to qualifications and experience.

Application forms may be obtained from the undersigned, to whom they must be returned by 30th May, 1952.

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

F. C. SAGE,  
Borough Engineer, Surveyor and

Architect.

Town Hall, Watford.  
May, 1952. 6864

## BUCKS COUNTY COUNCIL.

Applications are invited for the appointment of ASSISTANT QUANTITY SURVEYOR at a salary within Grade V of the National Scales (£570-£620 p.a.).

Candidates should be professionally trained and will be required to show proof of their ability. A thorough knowledge of the Standard Method of Measurement and the Code for Small Dwelling Houses is essential, and preference will be given to candidates who have passed the Final Examination of the Royal Institution of Chartered Surveyors.

The duties of the appointment will include taking-off, abstracting, billing, specification writing, estimating and measuring.

The appointment is superannuable and subject to medical examination.

A weekly allowance of 25s. and return fare home once every two months may be paid for six months to newly appointed married officers of the Council unable to find accommodation.

Further particulars and form of application may be obtained from the County Architect, County Offices, Aylesbury, to whom applications must be delivered by 31st May, 1952. 6853

## URBAN DISTRICT COUNCIL OF CORBY.

## APPOINTMENT OF QUANTITY SURVEYOR.

Applications are invited for the above appointment, in the department of the Engineer and Surveyor, at a salary in accordance with A.P.T., Grade VI, of the National Scale of Salaries (£595-£660 per annum).

Applicants must be thoroughly experienced in the preparation of Bills of Quantities, adjustment of variations and settlement of final accounts. Previous experience of substantial contracts for local authority housing is desirable, and preference will be given to applicants possessing the appropriate qualifications by examination.

The provisions of the Local Government Superannuation Act, 1937, will apply.

Housing accommodation will be made available to the successful candidate if married.

Application forms, to be obtained from the undersigned, should be completed and submitted not later than noon on Friday 6th June, 1952.

G. B. BLACKALL,

Clerk of the Council.

Council Offices, Corby, Northants. 6866

## CITY OF BIRMINGHAM ARCHITECTURAL DEPARTMENT.

Applications are invited for the following appointments:-

(a) ARCHITECTURAL ASSISTANT. Grade A.P.T. VIII (£735-£810).

(b) ARCHITECTURAL ASSISTANT. Grade A.P.T. VII (£685-£760).

The Association R.I.B.A. or equivalent qualifications must be held and applicants must have had considerable experience in an Architect's office.

The posts are superannuable and subject to a medical examination, and the salary will be fixed in accordance with qualifications and experience.

Applications endorsed with the heading of the post applied for, stating age, qualifications and experience, together with the names and addresses of two persons to whom reference can be made, should reach the undersigned not later than 7th June, 1952.

Canvassing disqualifies.

A. G. SHEPPARD FIDLER,

City Architect.

The Civic Centre, Birmingham, 1. 6851

## LONDON COUNTY COUNCIL.

## QUALIFYING EXAMINATION FOR THE OFFICE OF DISTRICT SURVEYOR.

An examination for certificates of proficiency to perform the duties of District Surveyor will be conducted in London in the week commencing 20th October, 1952. Minimum age for candidates 25.

Possession of this certificate necessary for appointment as District Surveyor (£1,190 to £2,100 a year) or as Assistant District Surveyor (£1,002 to £1,143).

Subsequent examinations will be held annually.

Apply to The Architect to the Council, County Hall, Westminster Bridge, S.E.1, for application forms and further particulars. (450) 6839

COUNTY BOROUGH OF BARNSELY.  
BOROUGH ENGINEER AND SURVEYOR AND  
PLANNING OFFICER'S DEPARTMENT.  
APPOINTMENT OF ARCHITECTURAL  
STAFF.

Applications are invited from suitably qualified persons for the following appointments:-

(a) ARCHITECTURAL ASSISTANT, A.P.T., Grades III-IV (£590-£575 per annum).

(b) TEMPORARY JUNIOR ARCHITECTURAL ASSISTANT (HOUSING), A.P.T., Grade I (£440-£465, per annum).

Applicants should have had a thorough architectural training, be good draughtsmen and have had experience in the design of public buildings and/or municipal housing schemes.

If necessary, housing accommodation may be offered to the successful candidate for post (a).

The Council have a large programme of housing and public buildings in hand and the positions offer wide scope to persons with initiative.

The appointments will be subject to the Scheme of Conditions for A.P.T.C. Services, to the General Conditions of Service within the Corporation as varied from time to time and to the provision of the Local Government Superannuation Act, 1937.

The successful candidates will be required to pass a medical examination and the appointments will be subject to one month's notice on either side.

Applications, stating age, present and previous appointments, experience and qualifications, etc., together with the names of two referees, should be addressed to the Borough Engineer, Town Hall, Barnsley, to reach him not later than the 7th June, 1952.

Canvassing will disqualify and applicants should disclose whether or not they are related to any member or Senior Officer of the Council.

(Signed) A. E. GILFILLAN,

Town Clerk.

Town Hall, Barnsley. 6848

## UNIVERSITY COLLEGE OF HULL.

Applications are invited for the appointment of a CLERK OF WORKS to supervise the erection and equipping of the Chemistry Building and minor works executed during the period of the main contract (expected to last another 18 months). Appointment might be extended to include further buildings if sanctioned. Further particulars from the Registrar, to whom application is to be made by 7th June, 1952. 6858

## CUMBERLAND COUNTY COUNCIL.

Applications are invited from Associate Members of the Institute of Heating and Ventilating Engineers for the established appointment of an ASSISTANT HEATING AND VENTILATING ENGINEER, in the County Architect's Department, at a salary within A.P.T., Grades VI or VII (£645-£710 and £685-£760), according to qualifications and experience.

Forms of application, together with further particulars and conditions of appointment, may be obtained from the County Architect, 15, Portland Square, Carlisle. Applications should be received by him not later than 10 a.m. on Tuesday, 10th June, 1952.

G. N. C. SWIFT,

Clerk of the County Council.

6865

## CHESTERFIELD RURAL DISTRICT COUNCIL.

## ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited from suitably qualified and experienced persons for the following appointments in the Engineer and Surveyor's Department:-

(a) JUNIOR ARCHITECTURAL ASSISTANT, A.P.T., Grade I, II or III (£440-£545 per annum) according to qualifications and experience. Applicants should have had a good architectural training and experience in housing work and preference will be given to candidates who have passed the Intermediate Examination of the R.I.B.A.

(b) JUNIOR QUANTITY SURVEYOR, A.P.T., Grade I, II or III (£440-£545 per annum) according to qualification and experience. Applicants should have had a good training in quantity surveying and experience in the preparation of

bills of quantities, measuring on site and in the checking of contractors' final accounts. Preference will be given to candidates who have passed the Intermediate Examination of the Royal Institution of Chartered Surveyors (Quantities Sub-Division).

The appointments will be subject to the Scheme of Conditions for A.P.T.C. Services to the General Conditions of Service within the Council as varied from time to time and to the provision of the Local Government Superannuation Act, 1937, and will be terminated by one month's notice on each side.

Candidates shall, when making application, disclose in writing whether to their knowledge they are related to any member of the Council or Senior Officer of the Council. Canvassing will disqualify.

Applications, stating age, details of qualifications, present and previous experience, together with names and addresses of two professional referees to whom reference may be made, should be delivered to the undersigned by not later than 30th May, 1952.

The Council will give all possible assistance towards the provision of housing accommodation for the successful applicant.

F. W. BROOM,

Clerk to the Council.

Rural Council House, Saltergate, Chesterfield. 6847

7th May, 1952.

## Architectural Appointments Vacant

4 lines or under, 7s. 6d.; each additional line, 2s.

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

OPPORTUNITY established London office for ARCHITECT experienced in controlling staff and supervising large contracts. Salary according to experience. Box 6836.

GOLLINS, MELVIN & PARTNERS require JUNIOR STAFF with office experience capable working drawings. Salary £350/£450 per annum; 5-day week. Telephone Museum 0683. 6837

ARCHITECTURAL ASSISTANT required by prominent prefabricated timber building manufacturers for London development drawing office. Applicants should have had experience in the design and detailing of timber buildings preferably both permanent and temporary. Write giving age, education, full details of career, present salary to Box 6845.

SENIOR ASSISTANT required. Write stating experience, salary required, etc. Lancaster & Lodge, 10, Woburn Square, W.C.1. 6846

ARCHITECT'S ASSISTANT required in busy South-West London office having a general practice. Good knowledge of building construction required. Reply, stating age and experience. Box 6868.

TWO RESIDENT ARCHITECTS required in the office of the Architect to the British Railways, Eastern Region. The successful applicants will be required to supervise contracts in the following areas:-

(1) Scunthorpe and Peterborough.

(2) Ipswich and Bury St. Edmunds.

The appointments are temporary but the successful applicants would have the opportunity of applying for vacancies which occur on the permanent staff. Applicants should preferably be qualified and should have had experience of site supervision. Salary £575-£600 according to age, qualifications and experience. Free residential railway travelling facilities within certain limits and other reduced rate railway travelling facilities after qualifying period of service. Applications, which should be in writing, should be addressed to the Civil Engineer, British Railways, Kings Cross Station, London, N.1. 6840

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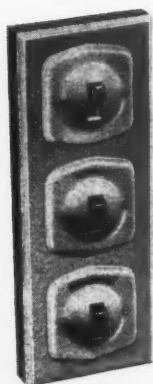
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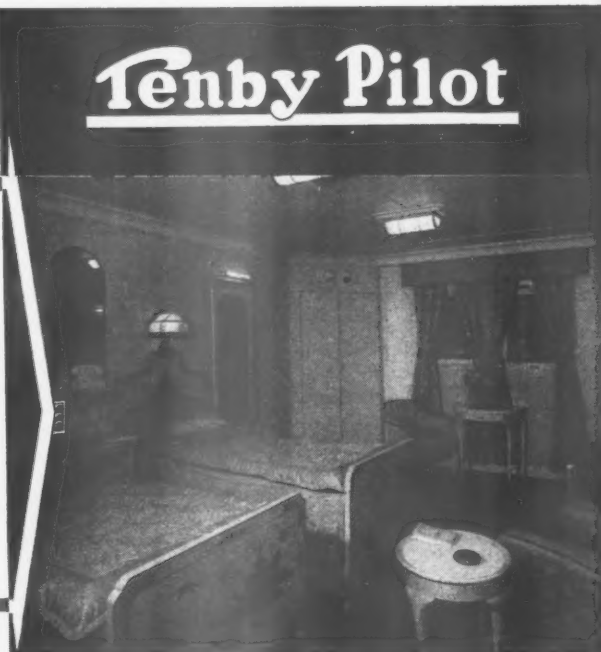


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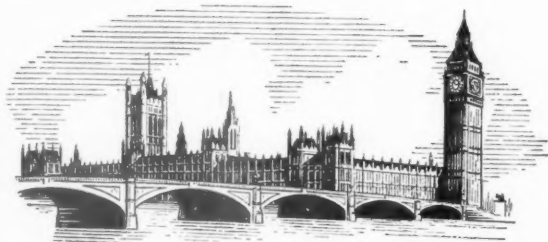
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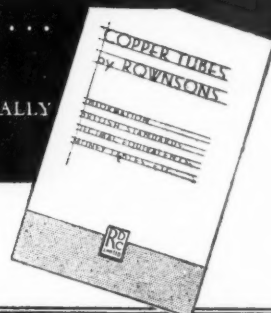
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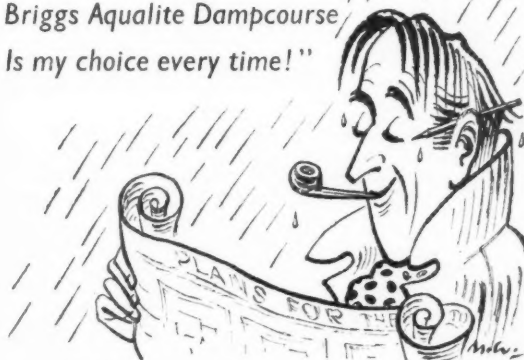
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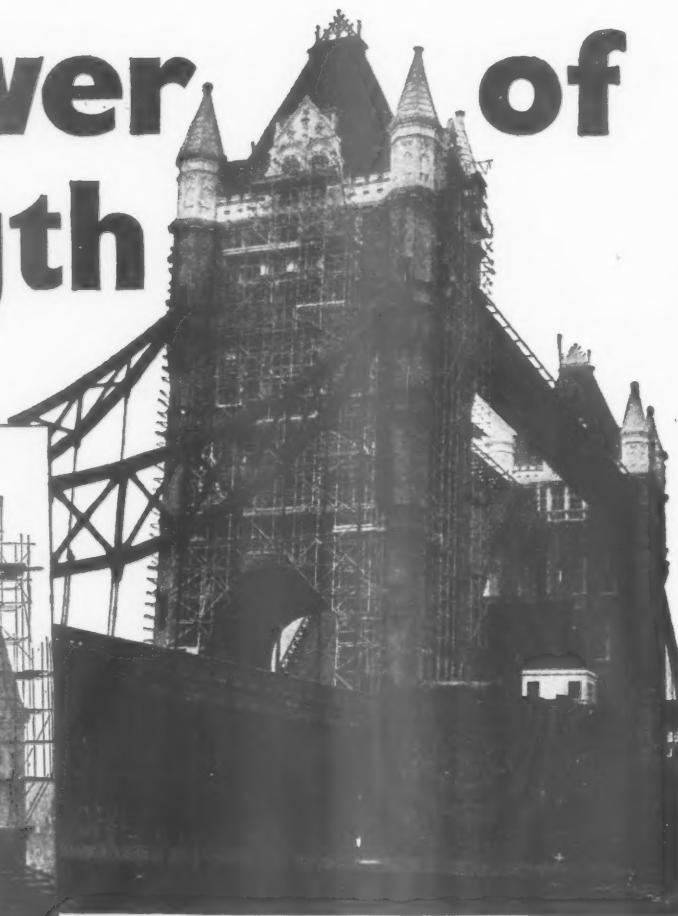
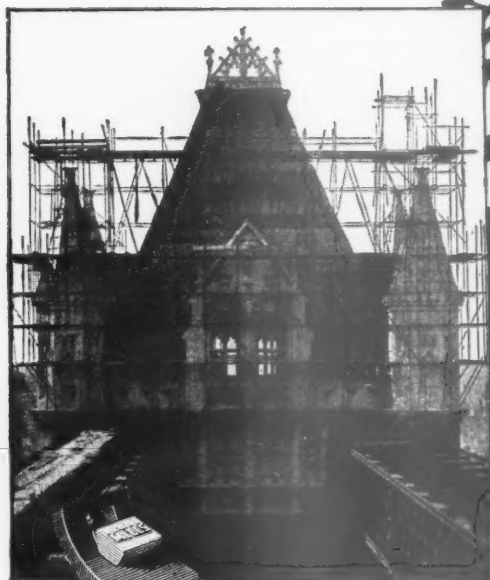
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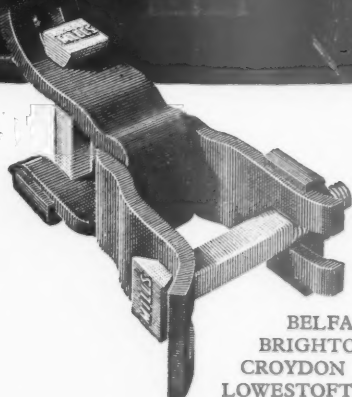
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