

# THE ARCHITECTS' JOURNAL



STAGE

The Architects' JOURNAL for May 6, 1954

MAY 2 1954

DETROIT

## standard contents

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

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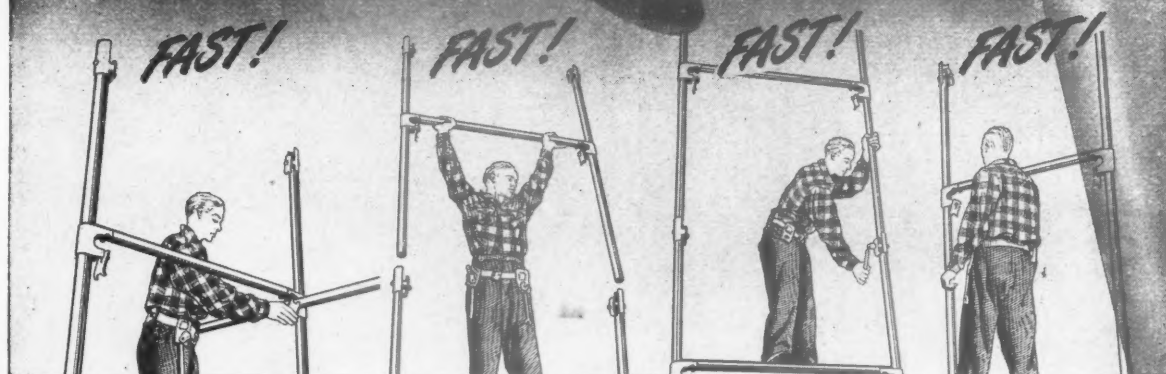
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★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to le one week, Ig to Z the next. In all cases where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

IGE	Institution of Gas Engineers. 17, Grosvenor Crescent, S.W.1.	Sloane 8266
IHVE	Institution of Heating and Ventilating Engineers. 49, Cadogan Square.	Sloane 1601/3158
IIBD	Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.1.	Euston 2450
ILA	Institute of Landscape Architects. 12, Gower Street, W.C.1.	Museum 1783
I of Arb	Institute of Arbitrators. 35/37, Hastings House, 10, Norfolk Street, Strand, W.C.2.	Temple Bar 4071
IOB	Institute of Builders. 48, Bedford Square, W.C.1.	Museum 7197/5176
IR	Institute of Refrigeration. Dalmeny House, Monument Street, E.C.3.	Avenue 6851
IRA	Institute of Registered Architects. 47, Victoria Street, S.W.1.	Abbey 6172
ISE	Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1.	Sloane 7128
IWA	Inland Waterways Association. 14, Great James' Street, W.C.2.	Chancery 7718
LIDC	Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1.	Whitehall 7264/4175
LMBA	London Master Builders' Association. 47, Bedford Square, W.C.1.	Museum 3891
MARS	Modern Architectural Research Group (English Branch of CIAM). Secretary: Trevor Dannatt, 6, Fitzroy Square, W.1.	Euston 7171
MOA	Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1.	Whitehall 3400
MOE	Ministry of Education. Curzon Street House, Curzon Street, W.1.	Mayfair 9400
MOH	Ministry of Health. 23, Savile Row, W.1.	Regent 8411
MOHLG	Ministry of Housing and Local Government. Whitehall, S.W.1.	Whitehall 4300
MOLNS	Ministry of Labour and National Service, 8, St. James' Square, S.W.1.	Whitehall 6200
MOS	Ministry of Supply. Shell Mex House, Victoria Embankment, W.C.	Gerrard 6933
MOT	Ministry of Transport. Berkeley Square House, Berkeley Square, W.1.	Mayfair 9494
MOW	Ministry of Works. Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalte Mine-Owners and Manufacturers Council. 94-98, Petty France, S.W.1.	Abbey 1010
NAS	National Association of Shopfitters. 9, Victoria Street, S.W.1.	Abbey 4813
NBR	National Buildings Record. 37, Onslow Gardens, S.W.7.	Kensington 8161
NCBMP	National Council of Building Material Producers, 10, Princes Street, S.W.1.	Abbey 5111
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street, W.1.	Langham 4041/4054
NFBTO	National Federation of Building Trades Operatives, Federal House, Cedars Road, Clapham, S.W.4.	Macaulay 4451
NFHS	National Federation of Housing Societies. 13, Suffolk St., S.W.1.	Whitehall 1693
NHBRC	National House Builders Registration Council. 82, New Cavendish Street, W.1.	Langham 4341
NPL	National Physical Laboratory. Head Office, Teddington	Molesey 1380
NSA	National Sawmilling Association. 14, New Bridge Street, E.C.4.	City 1476
NSAS	National Smoke Abatement Society. Chandos House, Buckingham Gate, S.W.1.	Abbey 1359
NT	National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.1.	Whitehall 0211
PEP	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1.	Whitehall 7245
RCA	Reinforced Concrete Association. 94, Petty France, S.W.1.	Abbey 4504
RIAS	Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh.	Edinburgh 20396
RIBA	Royal Institute of British Architects. 66, Portland Place, W.1.	Langham 5721
RICS	Royal Institution of Chartered Surveyors. 12, Great George St., S.W.1.	Whitehall 5322/9242
RFAC	Royal Fine Art Commission. 22A, Queen Anne's Gate, S.W.1.	Whitehall 3935
RS	Royal Society. Burlington House, Piccadilly, W.1.	Regent 3335
RSA	Royal Society of Arts. 6, John Adam Street, W.C.2.	Trafalgar 2366
RSI	Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1.	Sloane 5134
RIB	Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19.	Wimbledon 5101
SBPM	Society of British Paint Manufacturers. Grosvenor Gardens House, Grosvenor Gardens, S.W.1.	Victoria 2186
SCR	Society for Cultural Relations with the USSR. 14, Kensington Square, London, W.8.	Western 1571
SE	Society of Engineers. 17, Victoria Street, Westminster, S.W.1.	Abbey 7244
SFMA	School Furniture Manufacturers' Association. 30, Cornhill, London, E.C.3.	Mansion House 3921
SIA	Structural Insulation Association. 32, Queen Anne Street, W.1.	Langham 7616
SIA	Society of Industrial Artists. 7, Woburn Square, W.C.1.	Langham 1984
SNHTPC	Scottish National Housing. Town Planning Council. Hon. Sec., Robert Pollock, Town Clerk, Rutherglen.	
SPAB	Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.	Holborn 2646
TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.	Temple Bar 5006
TDA	Timber Development Association. 21, College Hill, E.C.4.	City 4771
TPI	Town Planning Institute. 18, Ashley Place, S.W.1.	Victoria 8815
TTF	Timber Trades Federation. 75, Cannon Street, E.C.4.	City 5051
WDC	War Damage Commission. 6, Carlton House Terrace, S.W.1.	Whitehall 4341
ZDA	Zinc Development Association. Lincoln House, Turl Street, Oxford.	Oxford 47988

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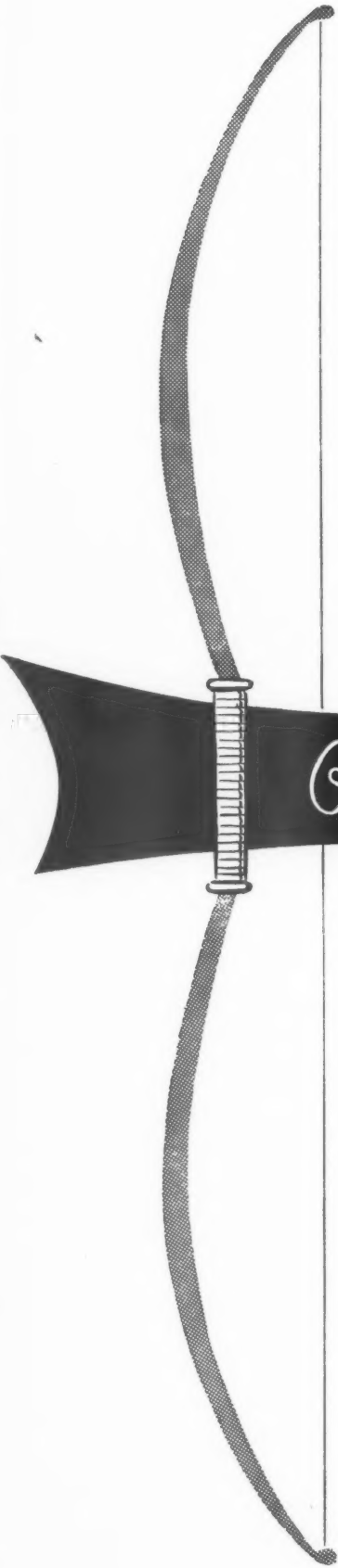
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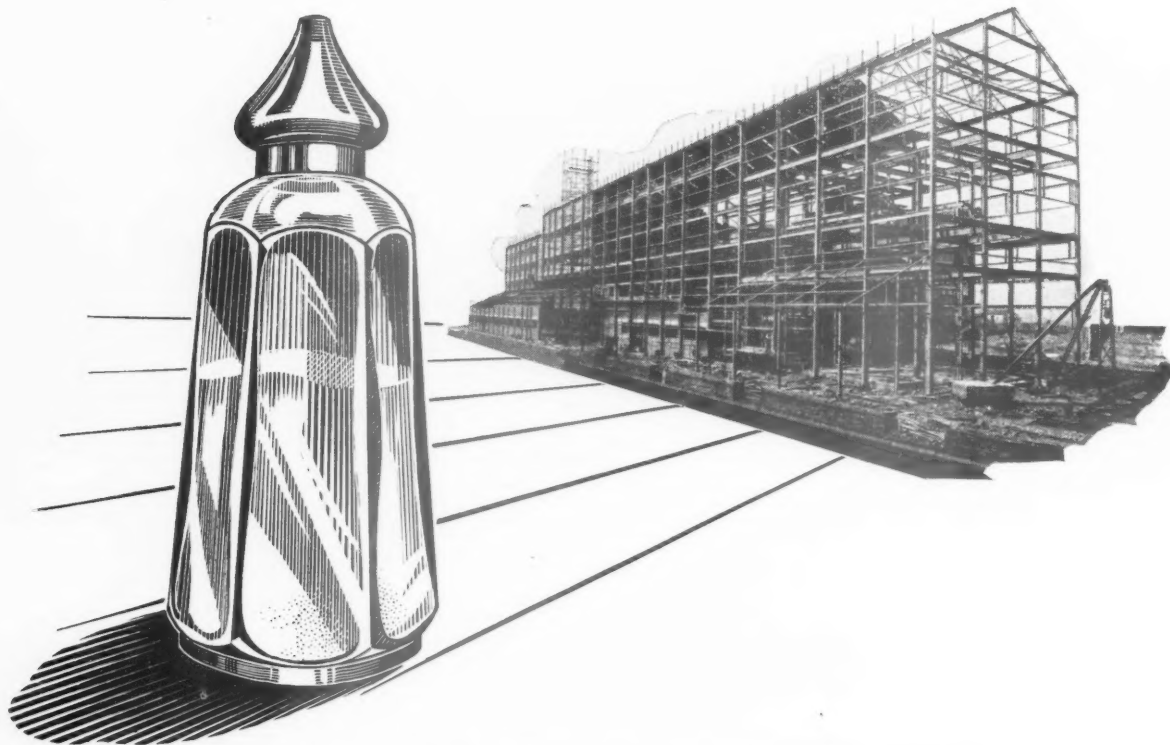
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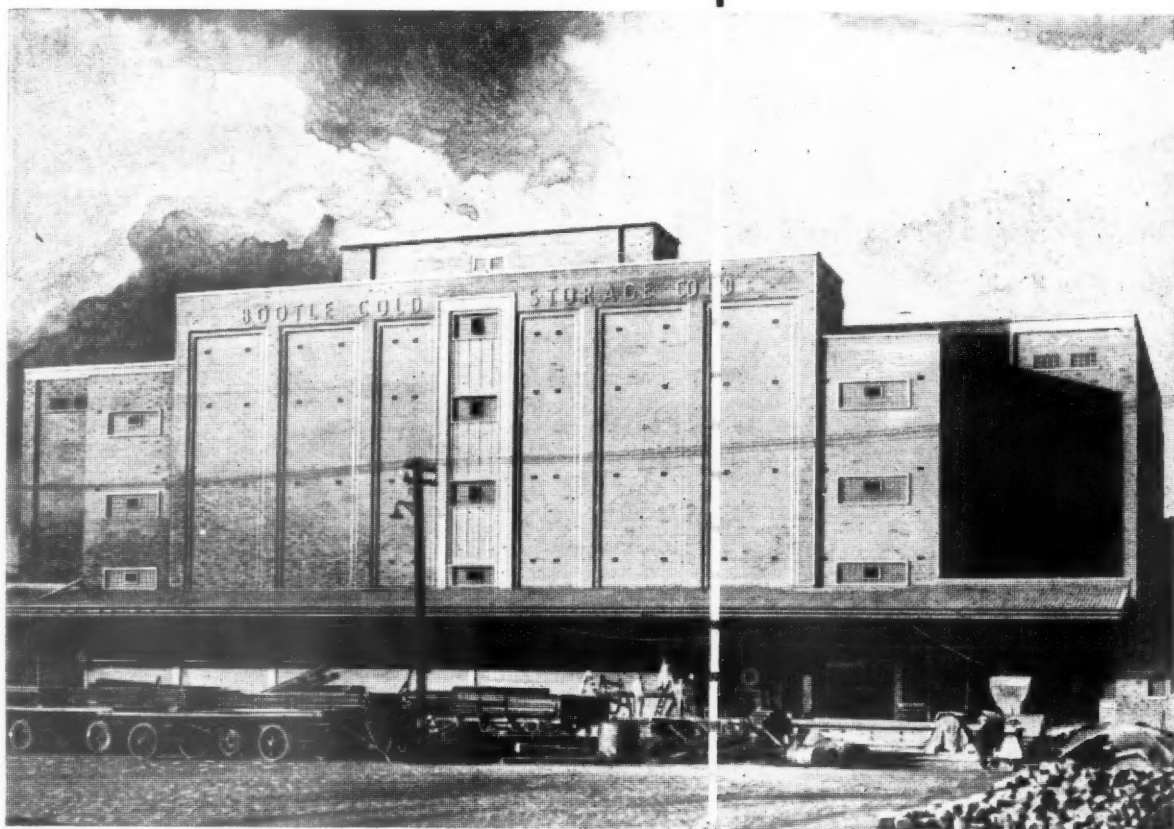


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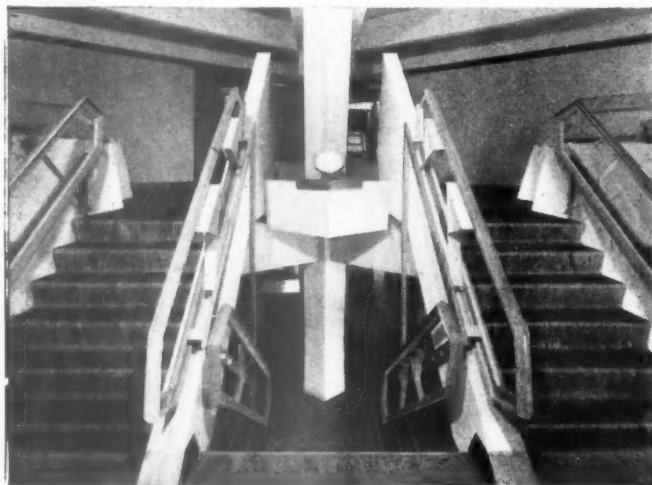
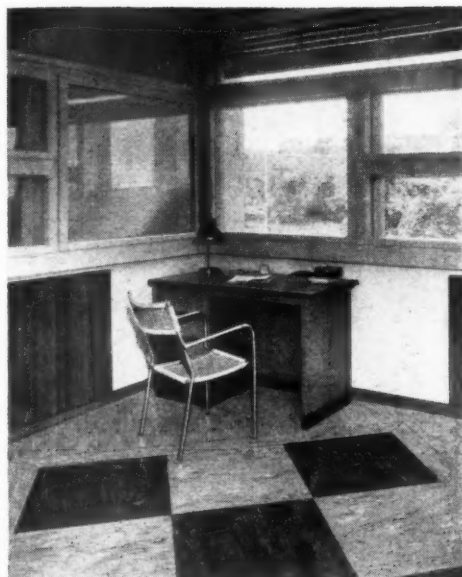
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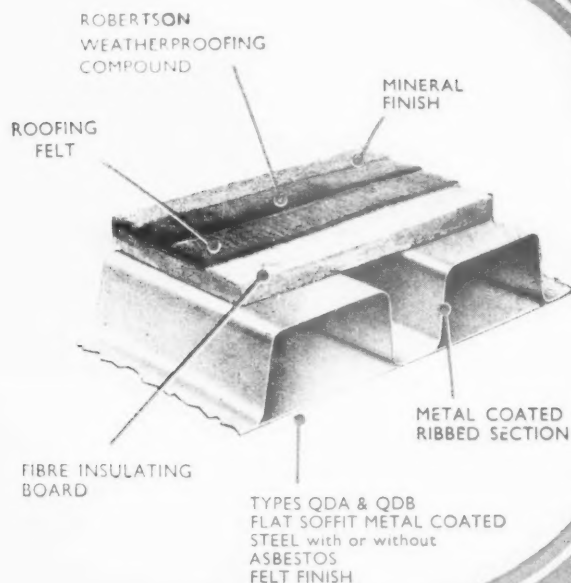
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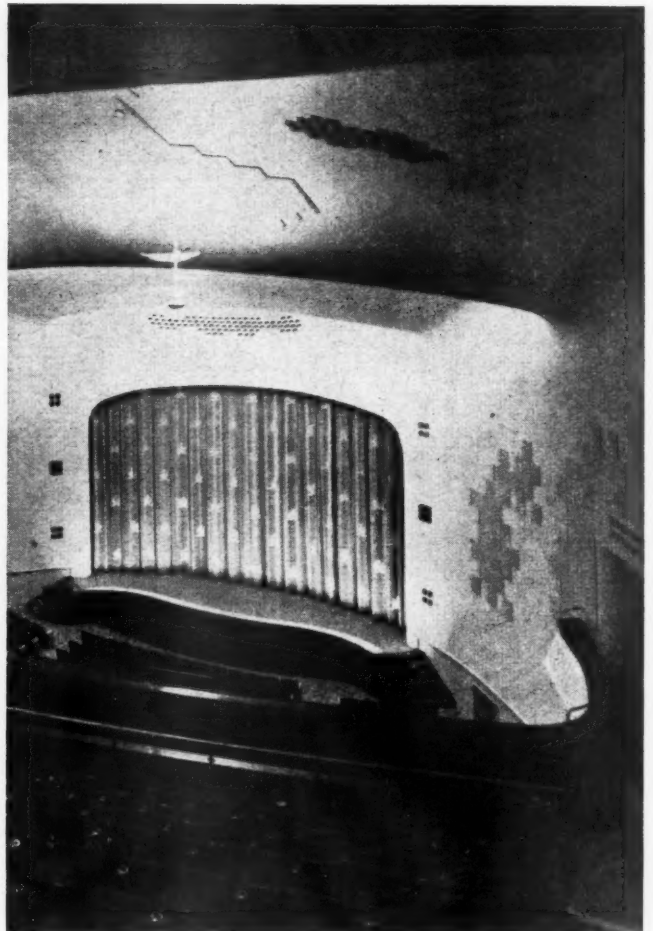
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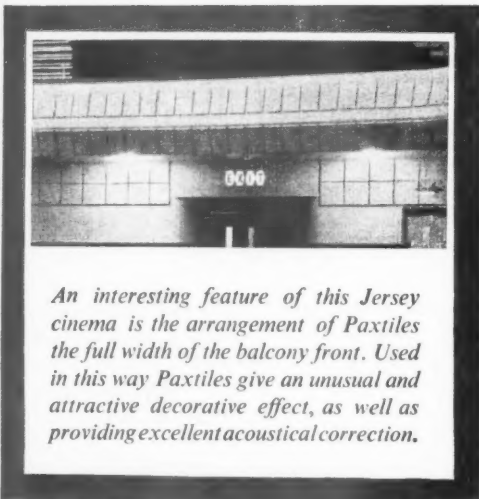




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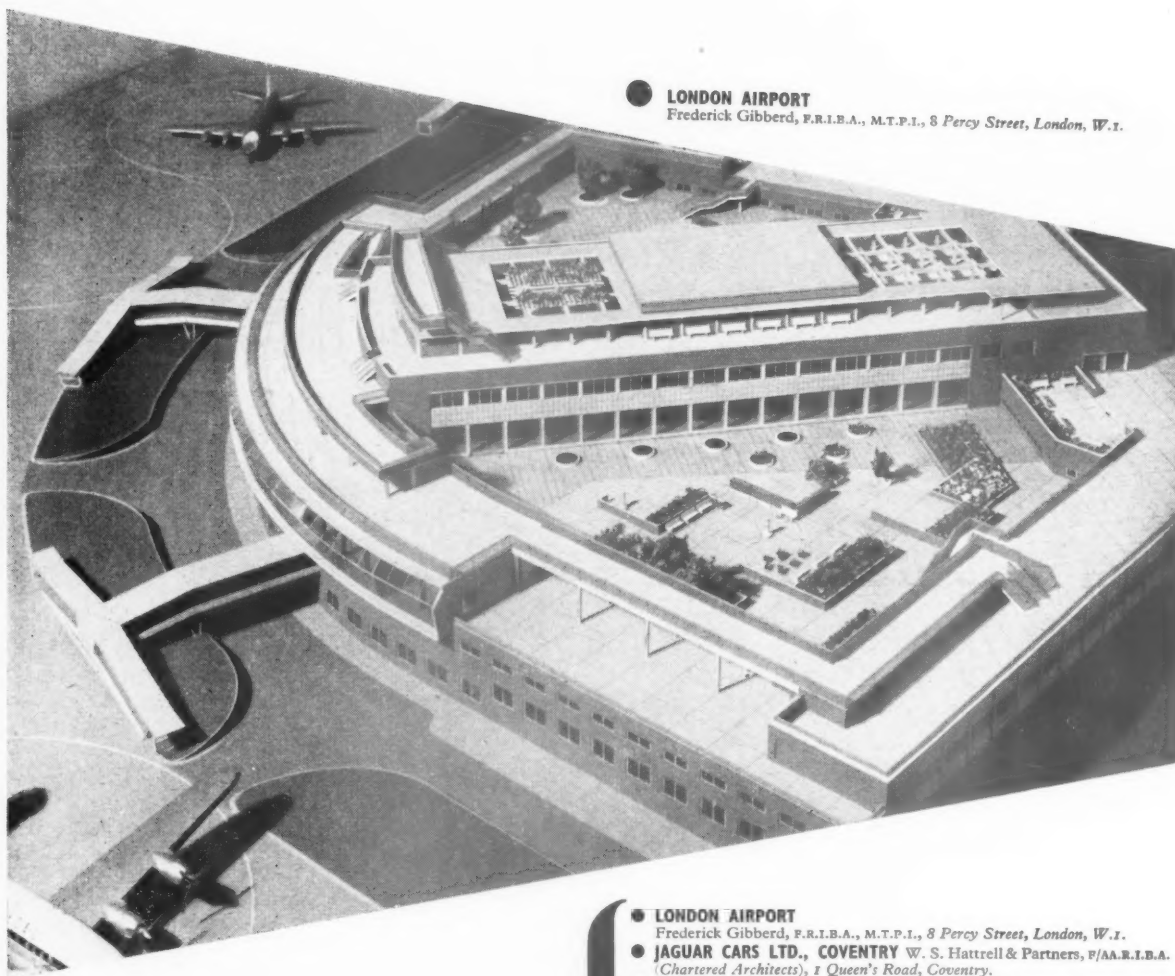
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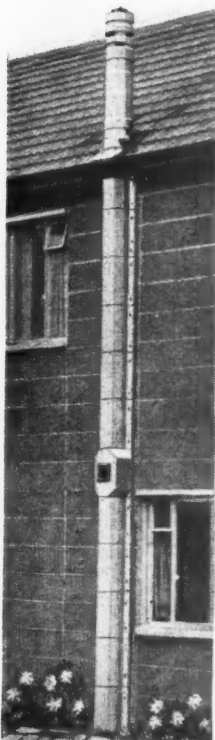


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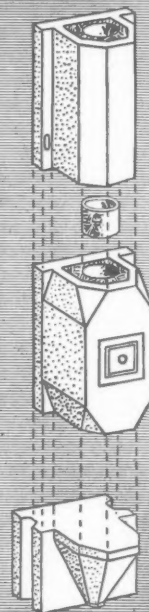
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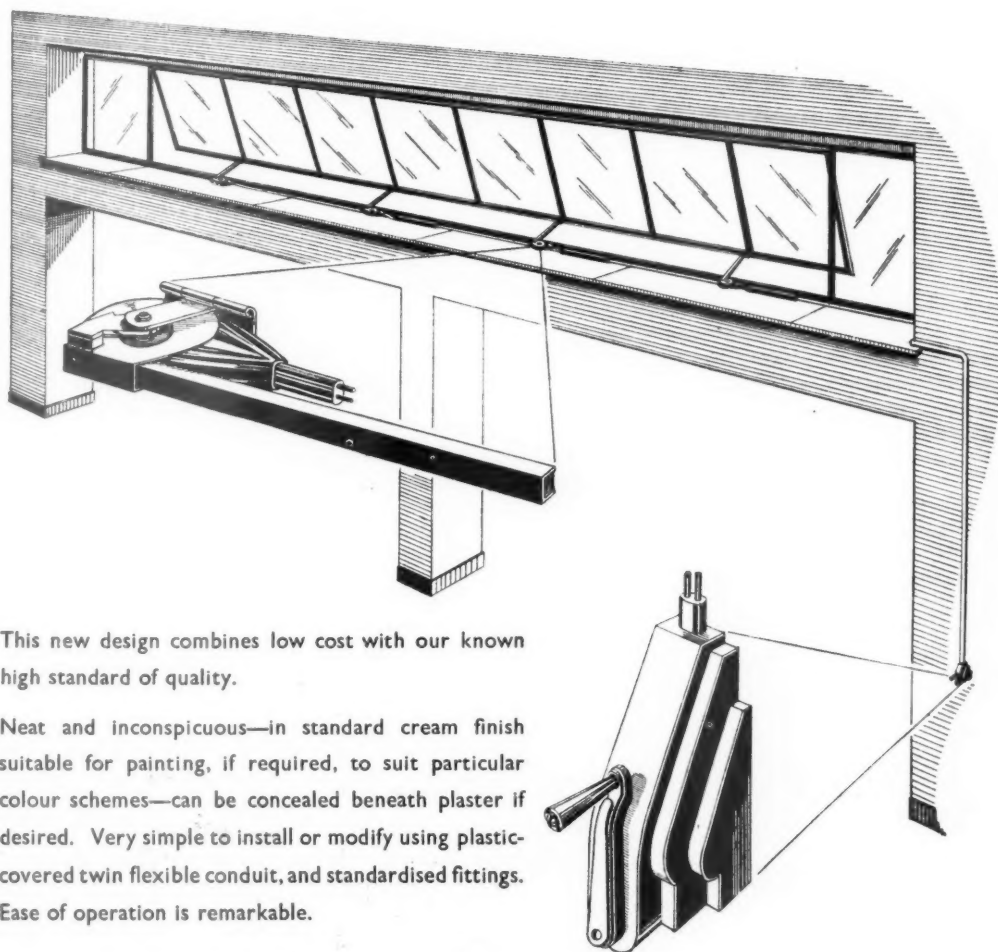
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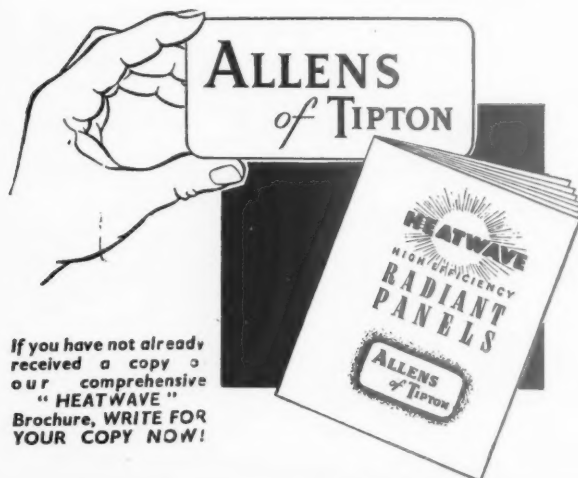
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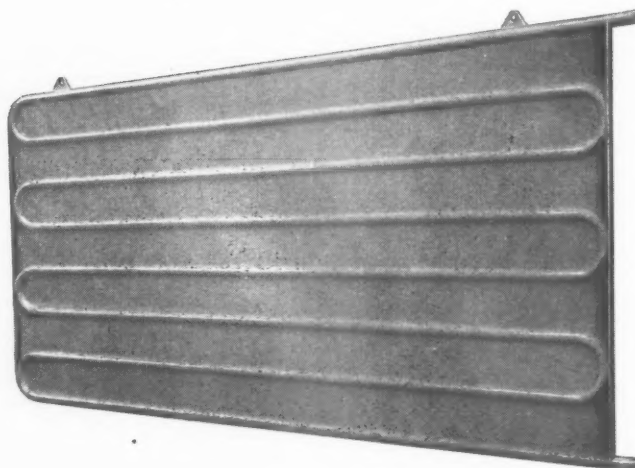
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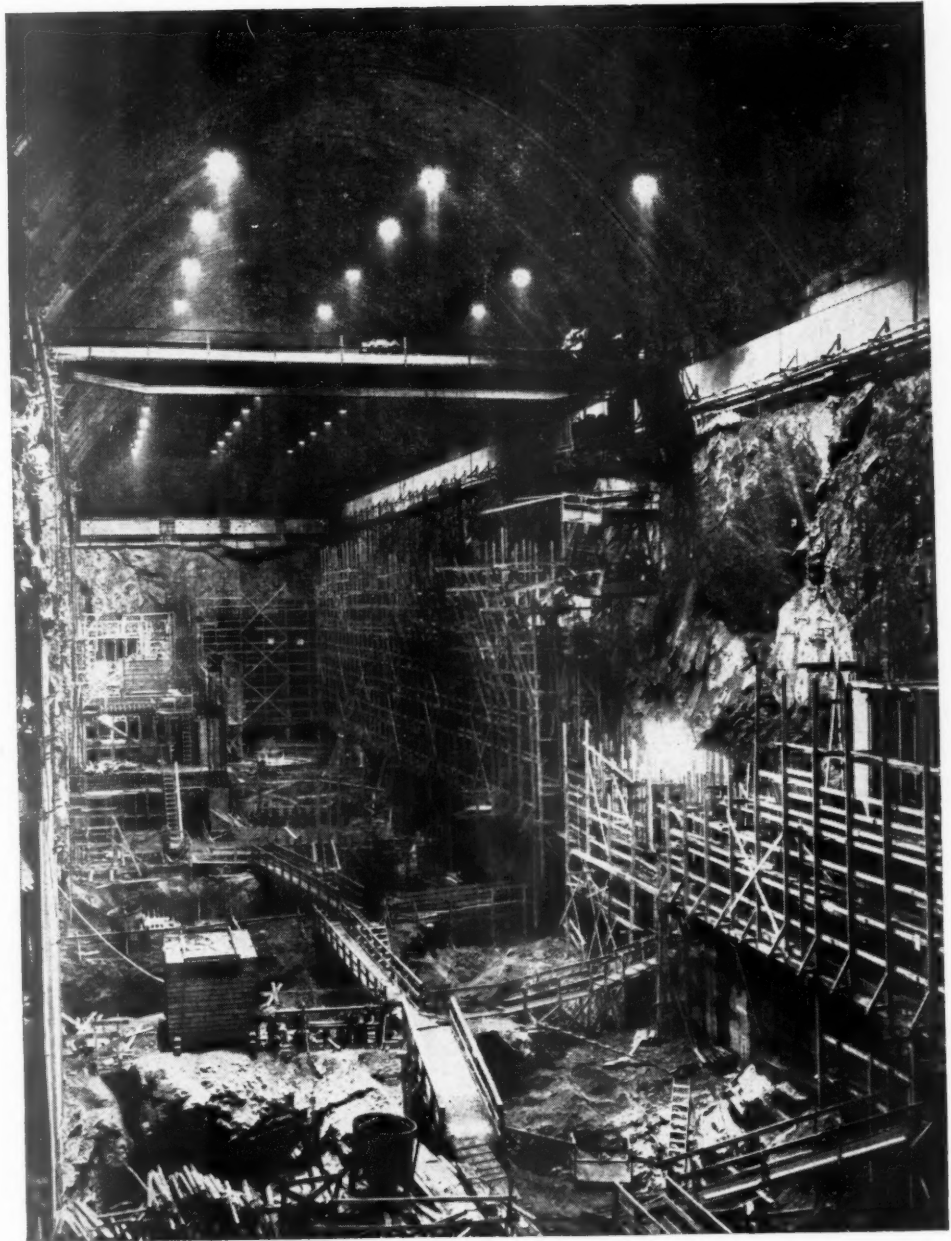


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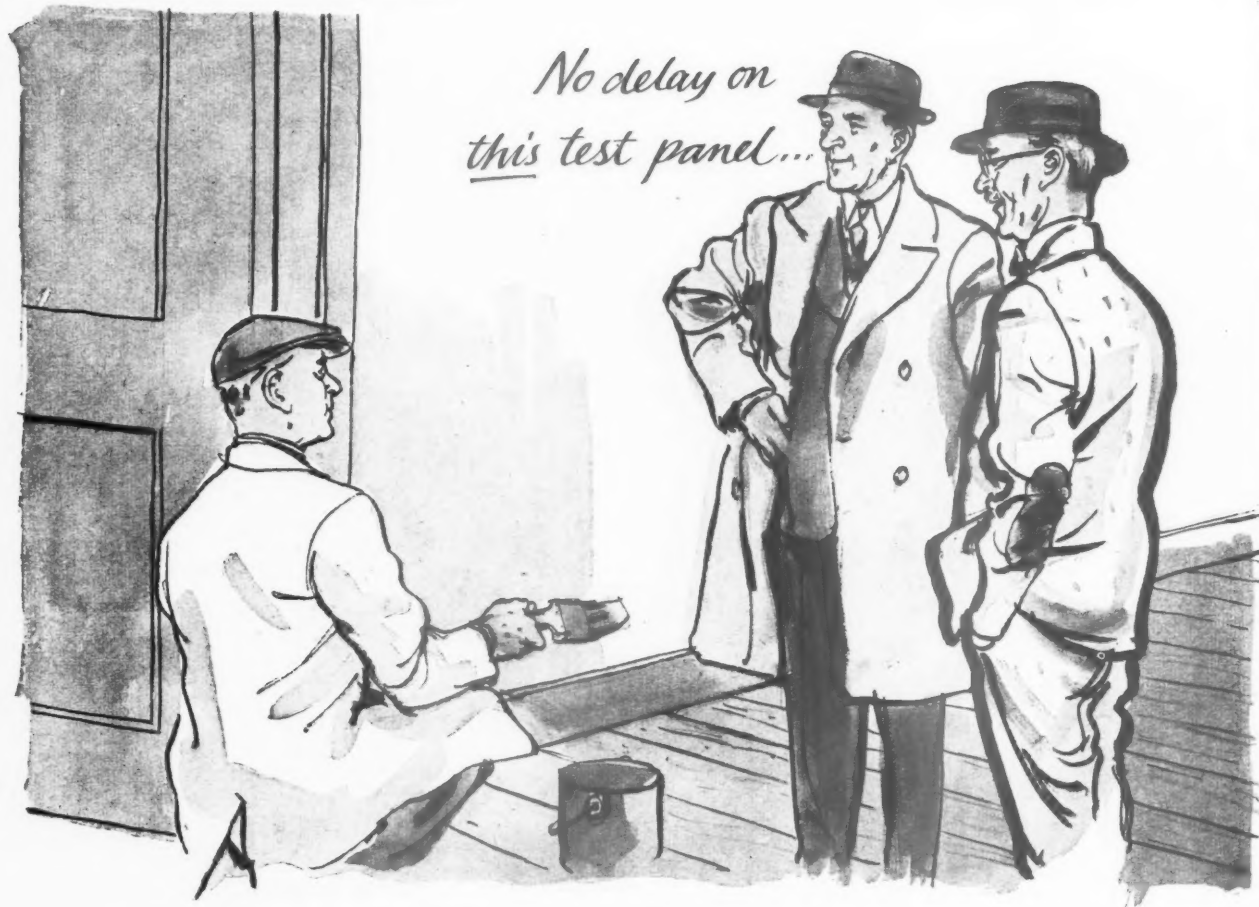
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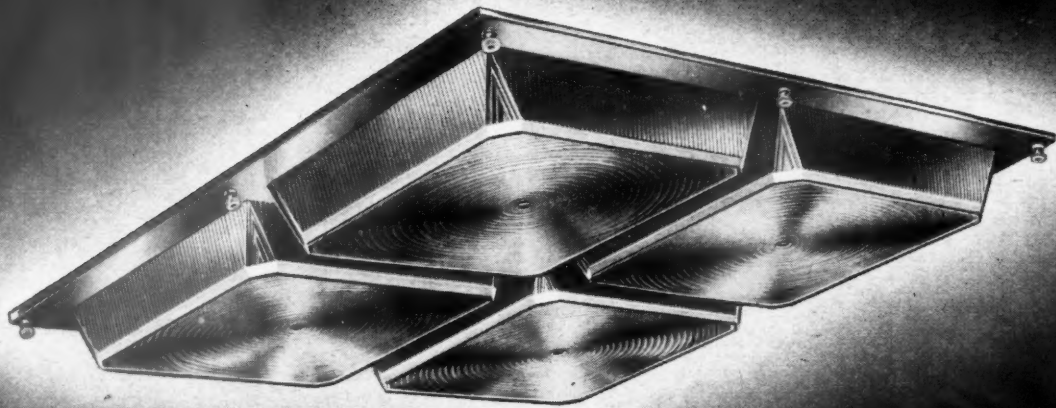
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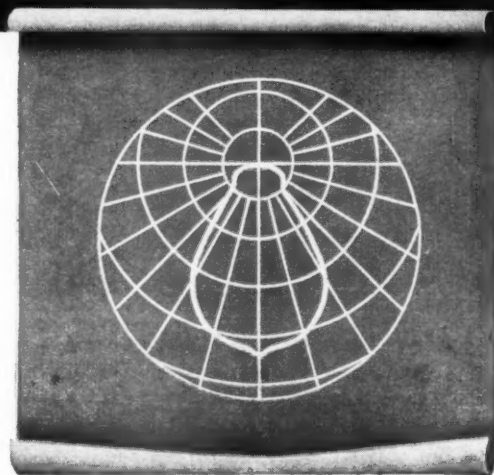
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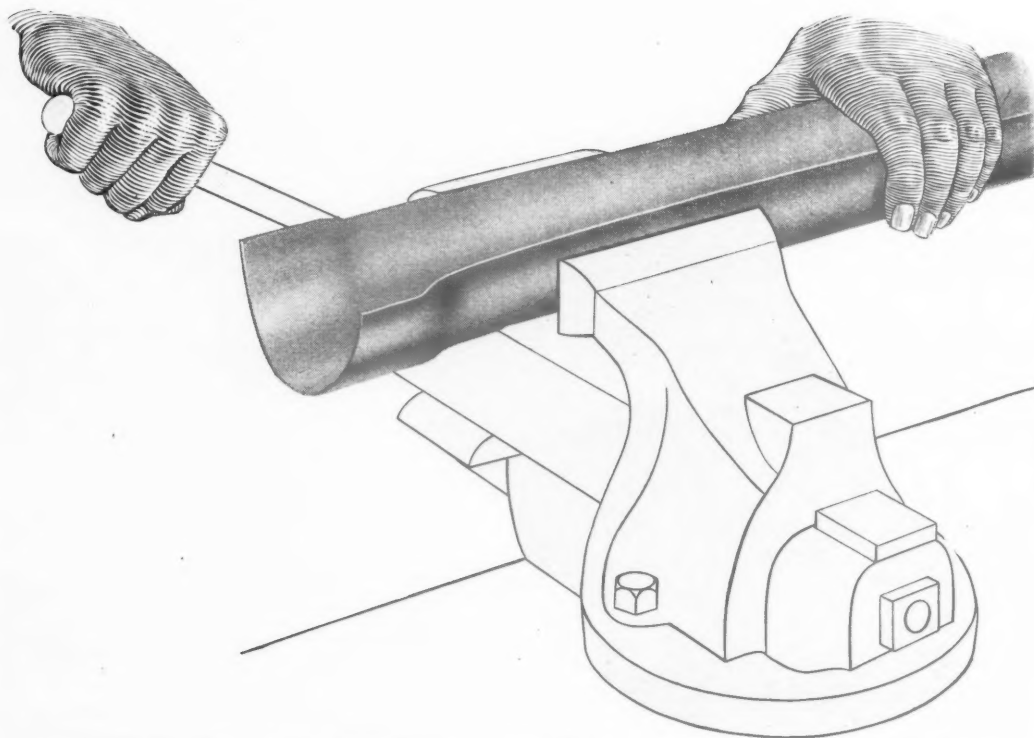
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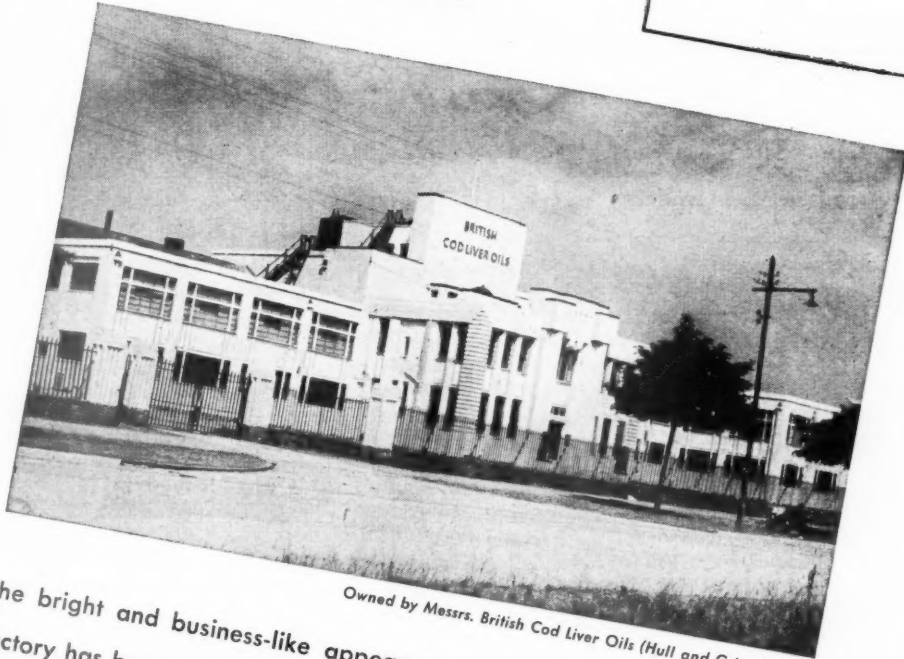
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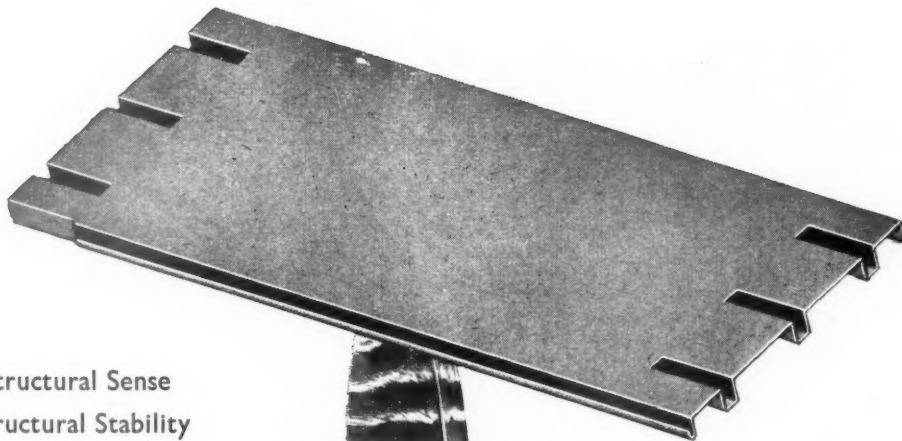


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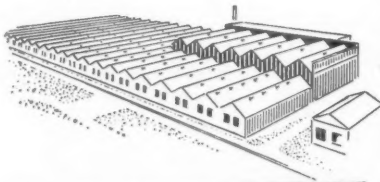
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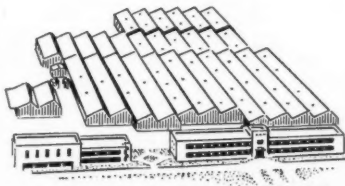
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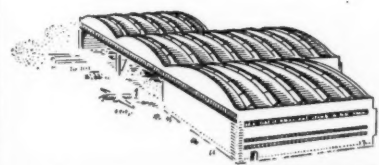
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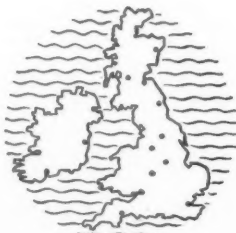


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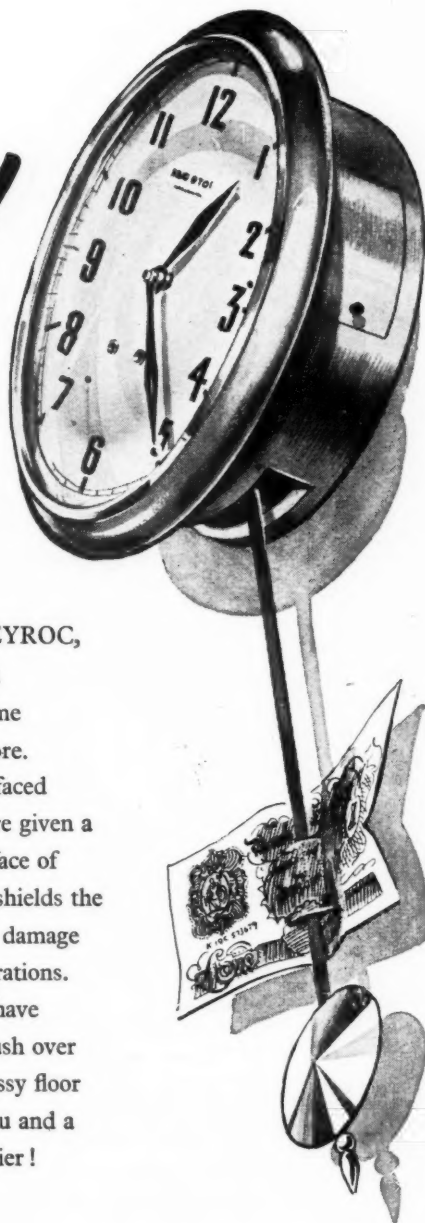
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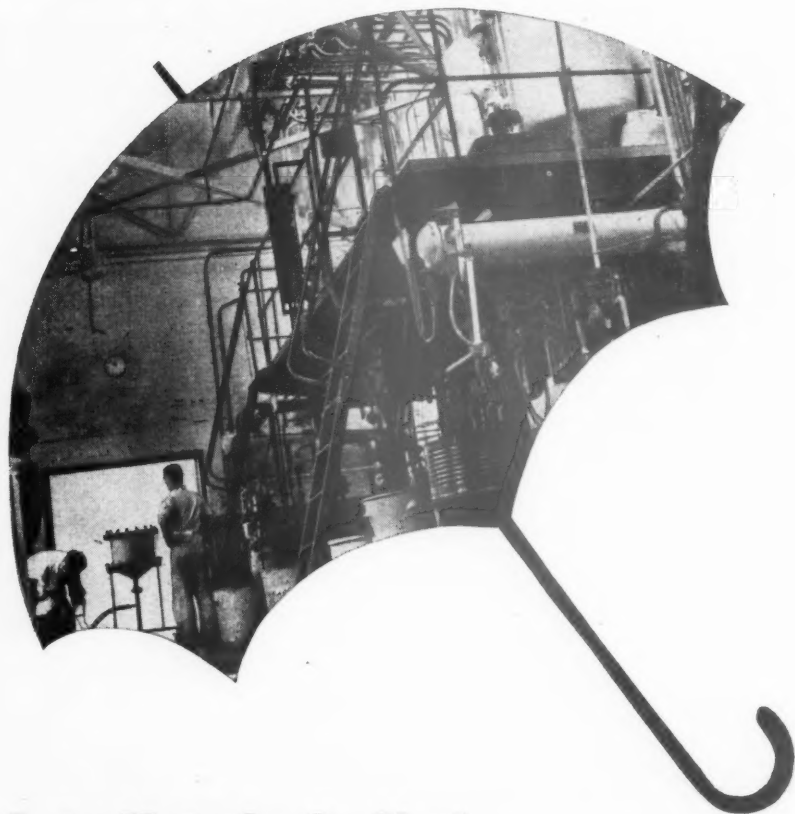


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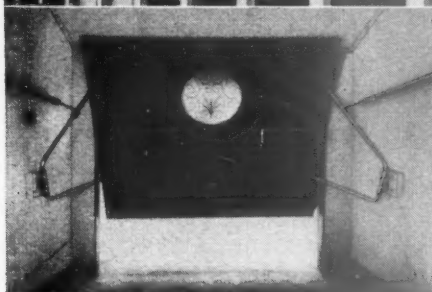
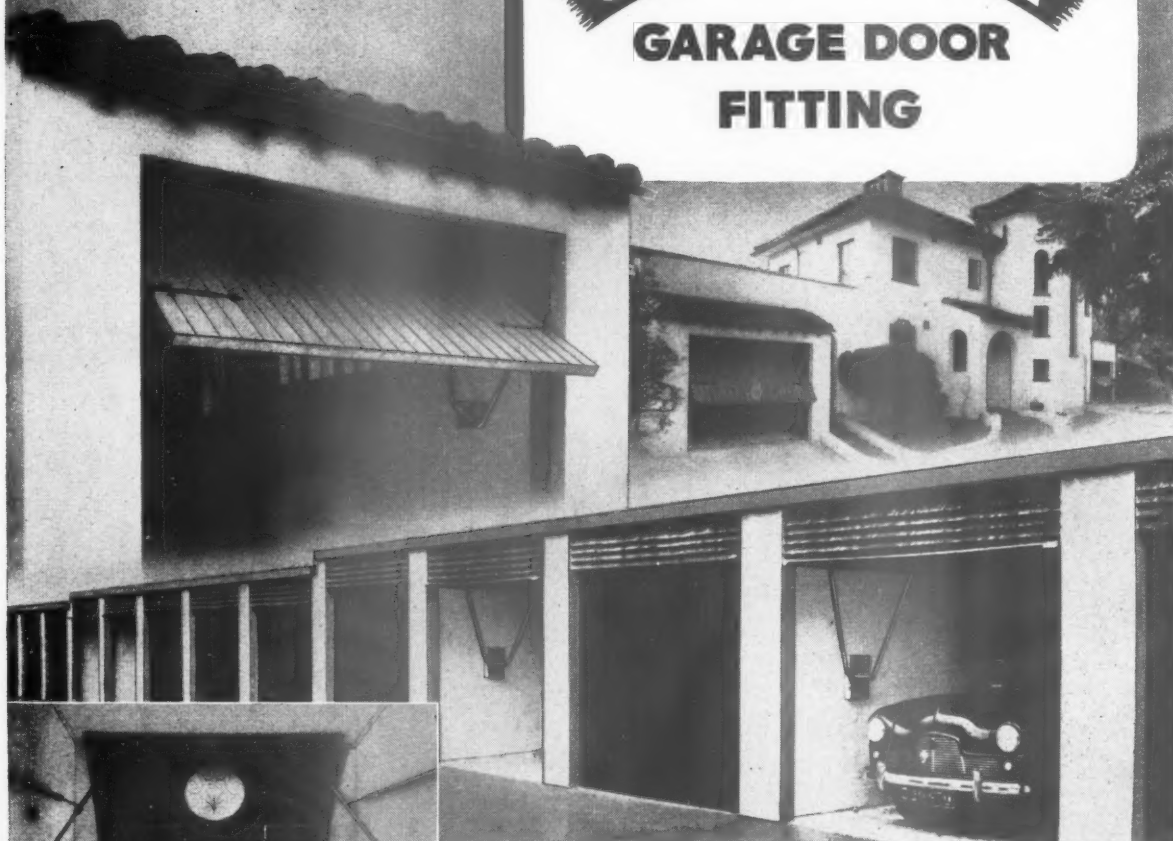
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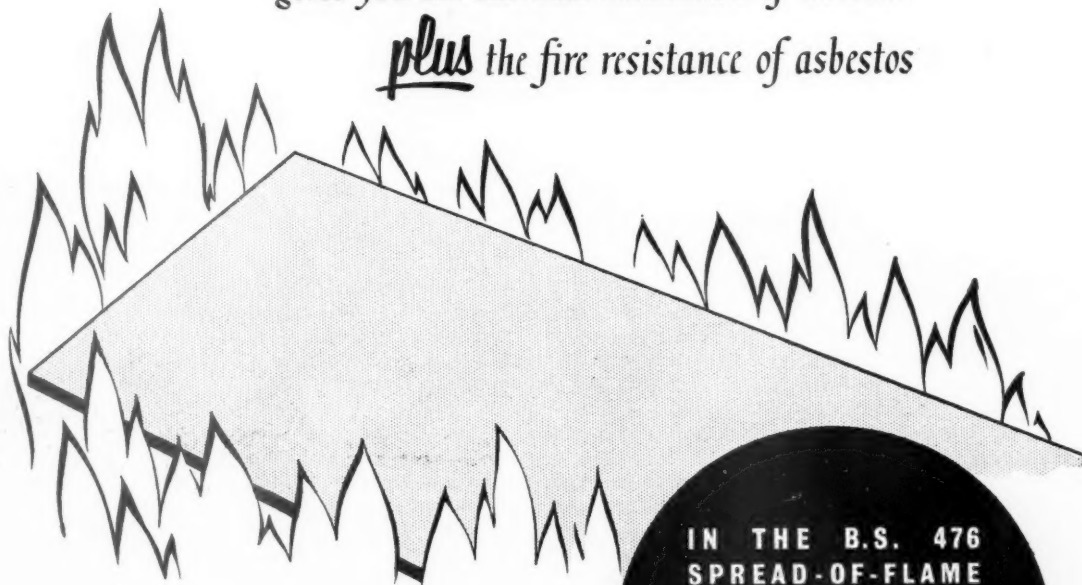
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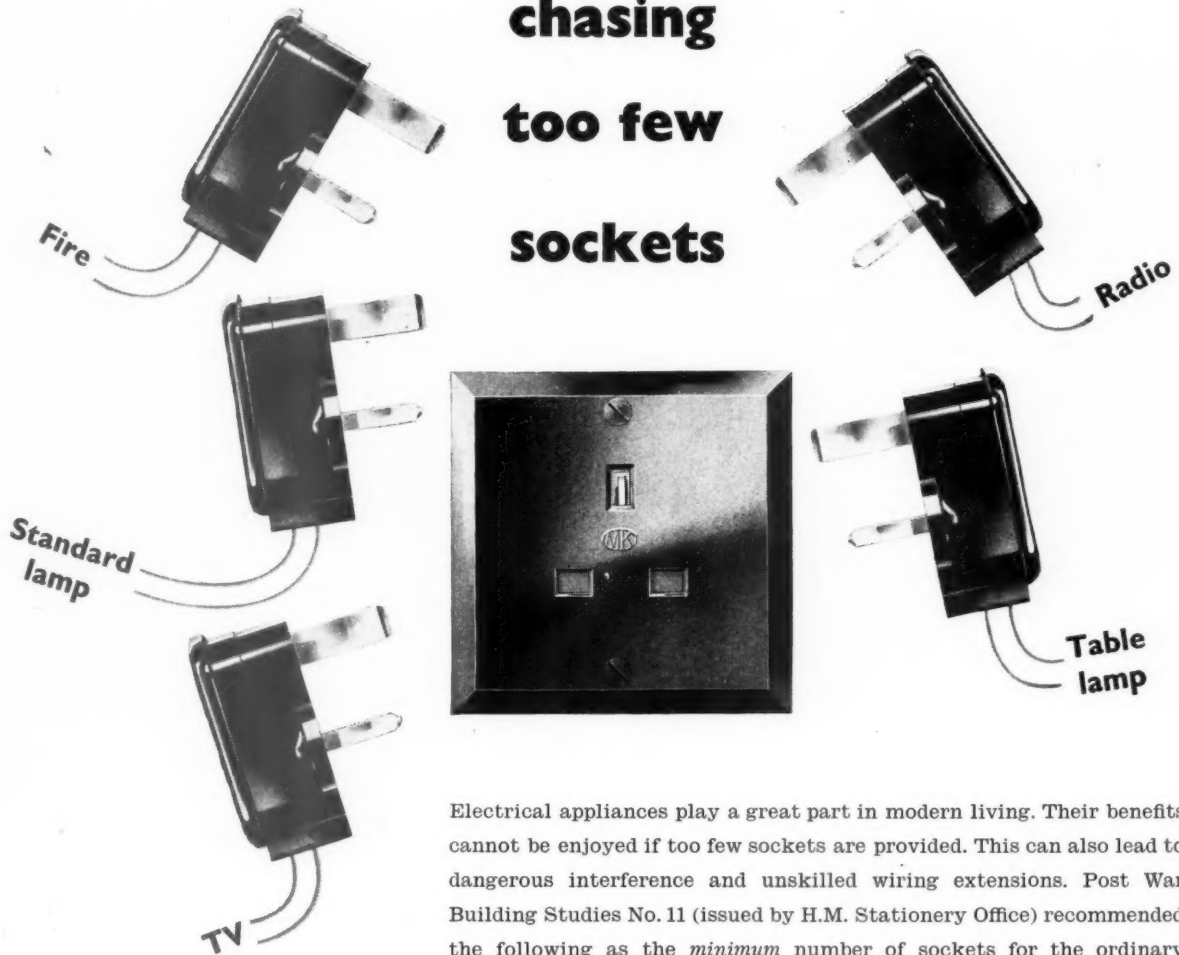
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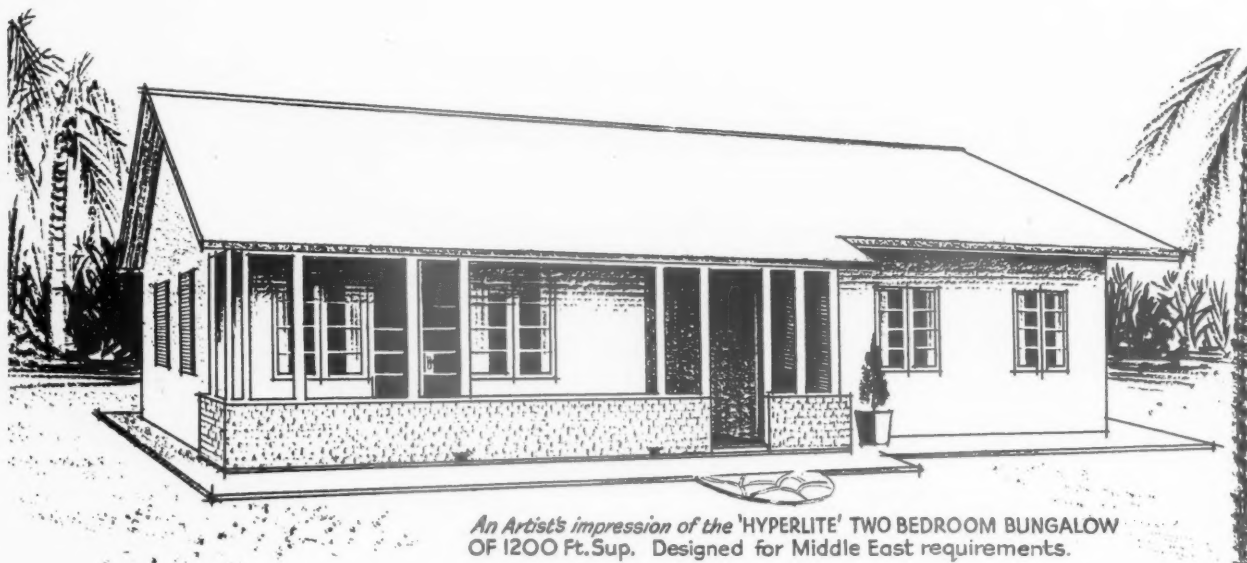
LIVING ROOMS	3
DOUBLE BEDROOMS	3
SINGLE BEDROOMS	2
KITCHENS	3 (2 if not intended for use as a living room)

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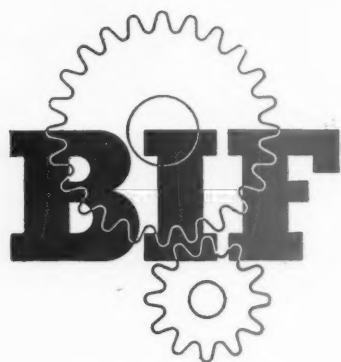


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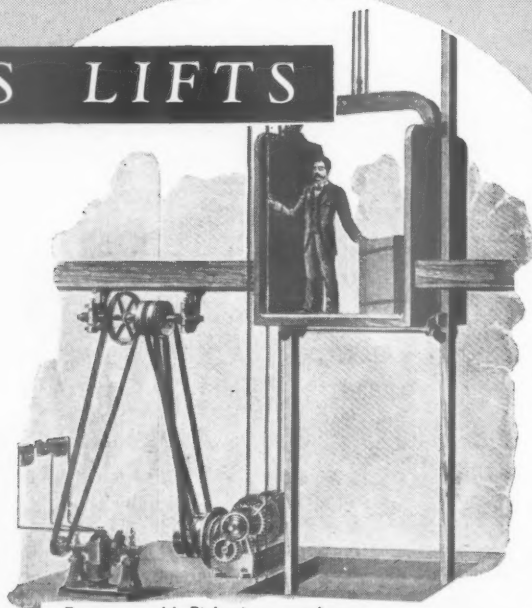
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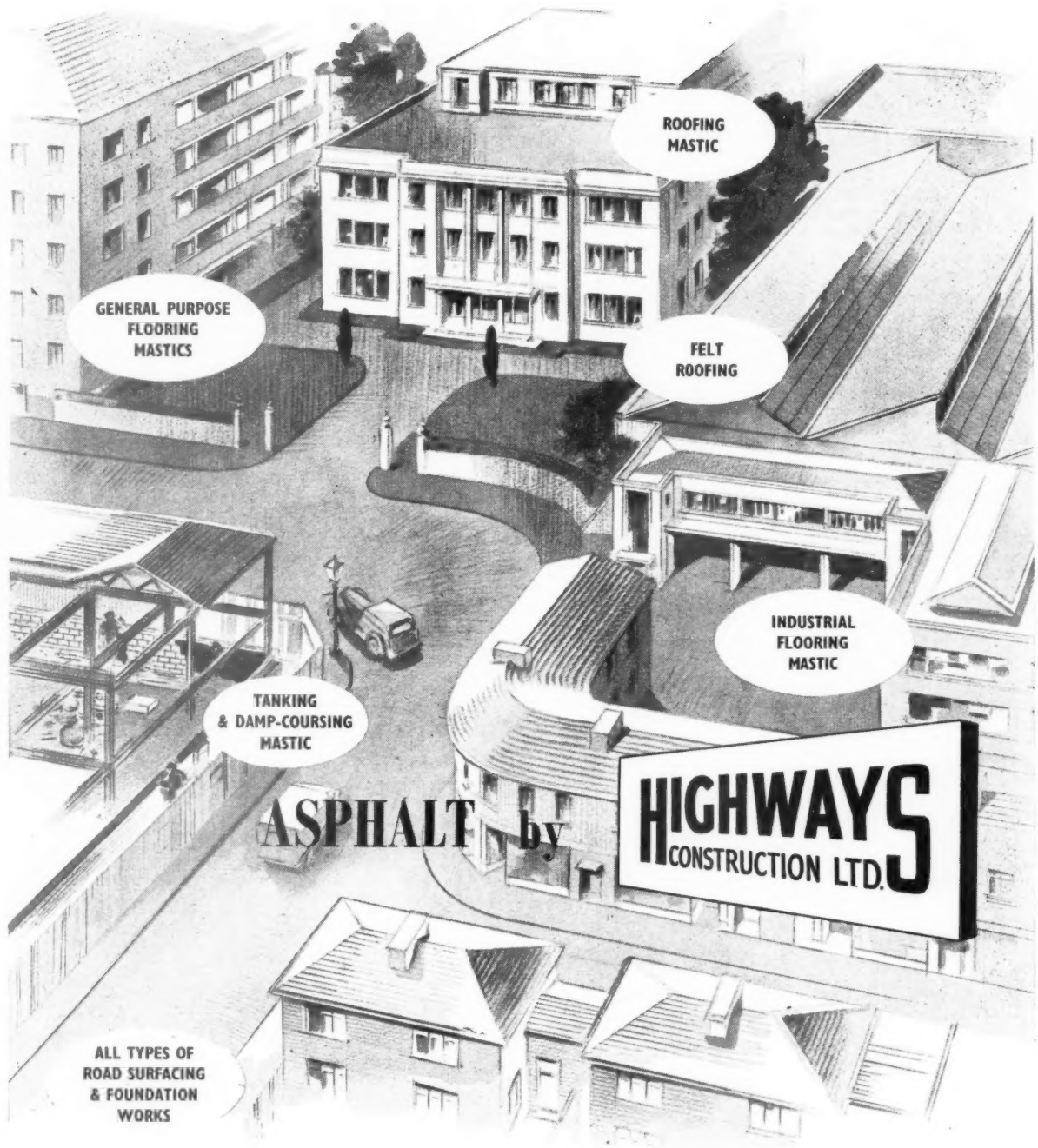
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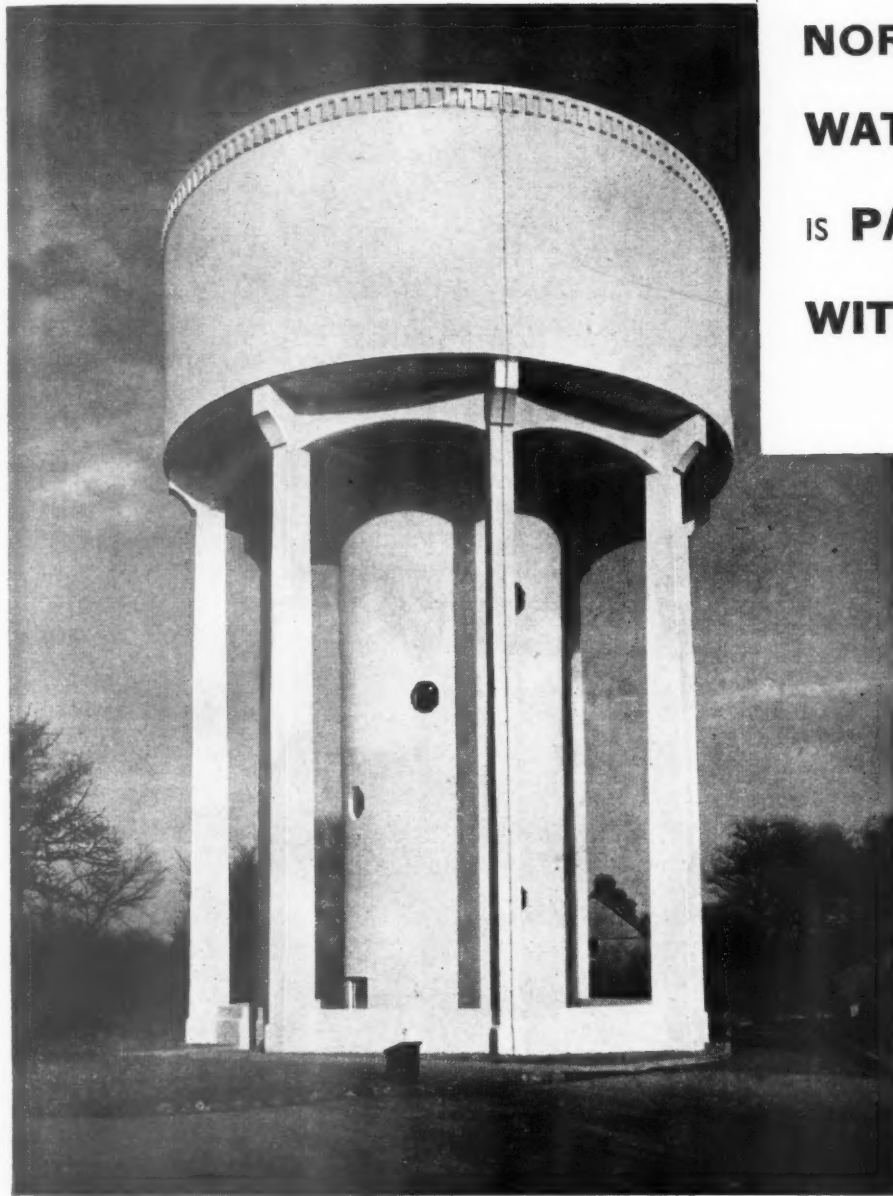
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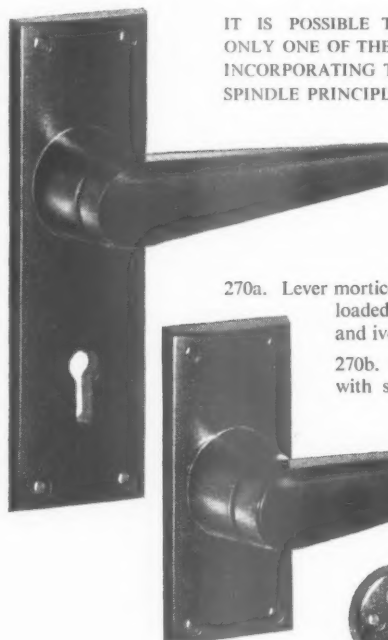


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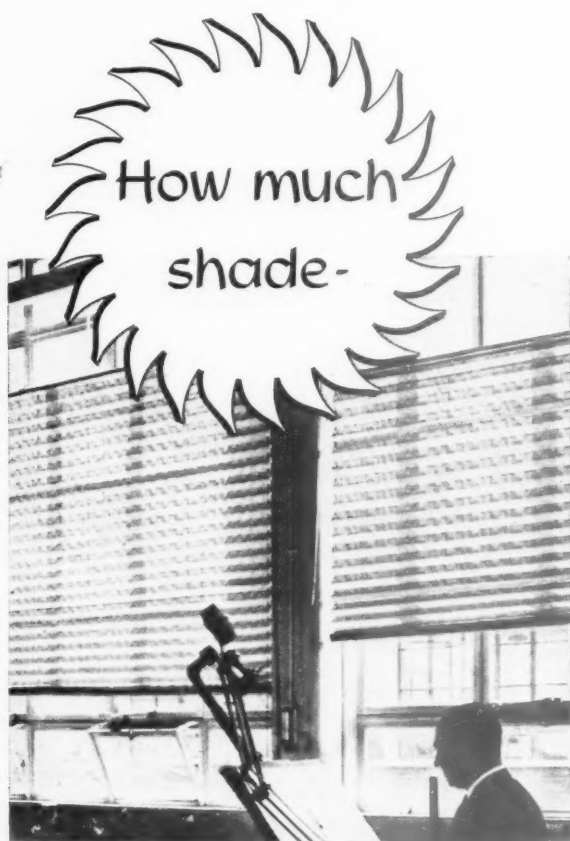
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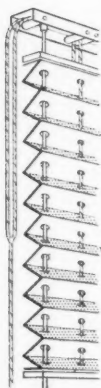
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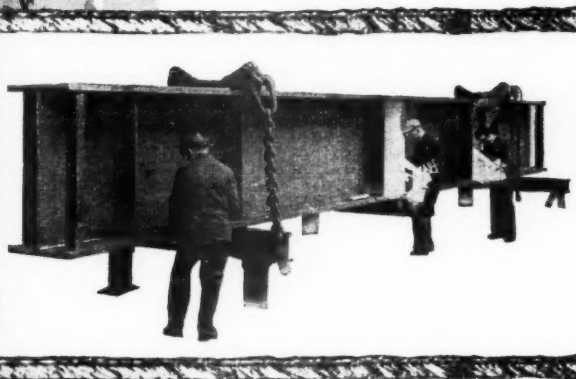
If electricity were more widely used by farms, factories, shops, homes, offices and for street lighting — this would keep the generating plant more fully loaded. The demands on the power stations coming from these different classes of consumers would be diversified. That is to say the loads would not occur simultaneously but, in the main, at different times of the day — and continuous full output from the generating plant would reduce the cost of electricity.



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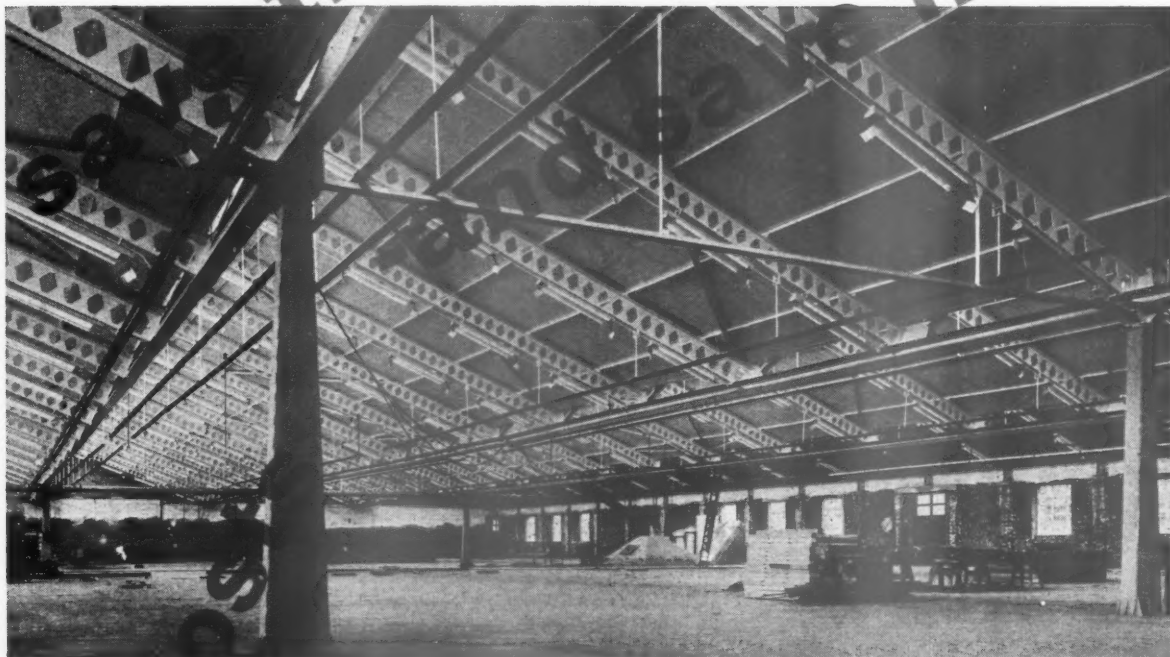
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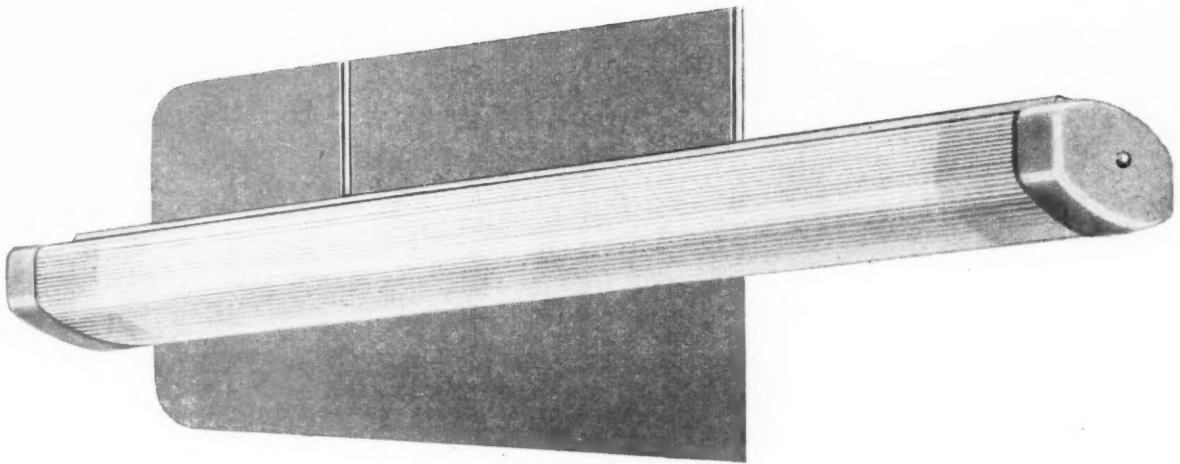
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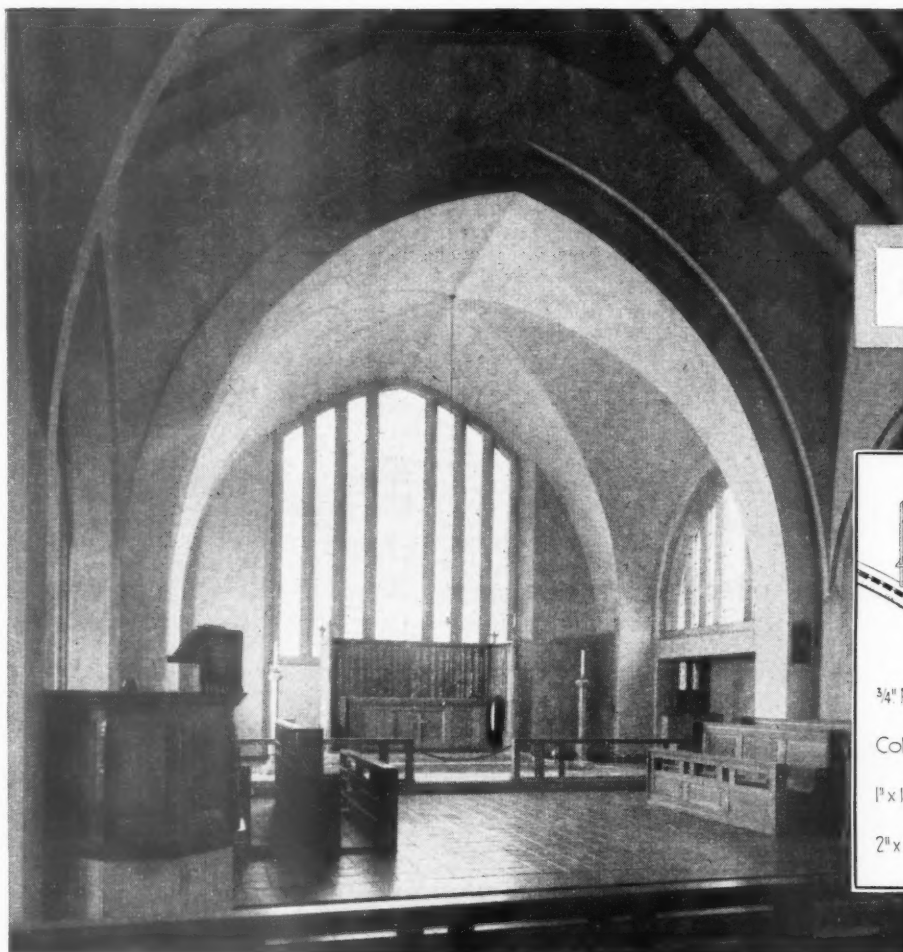
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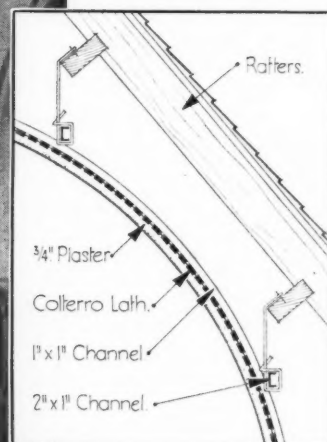
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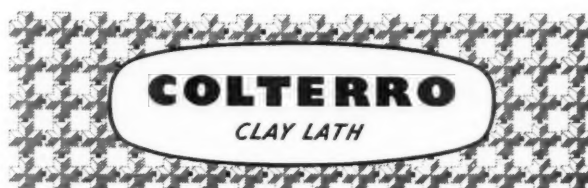
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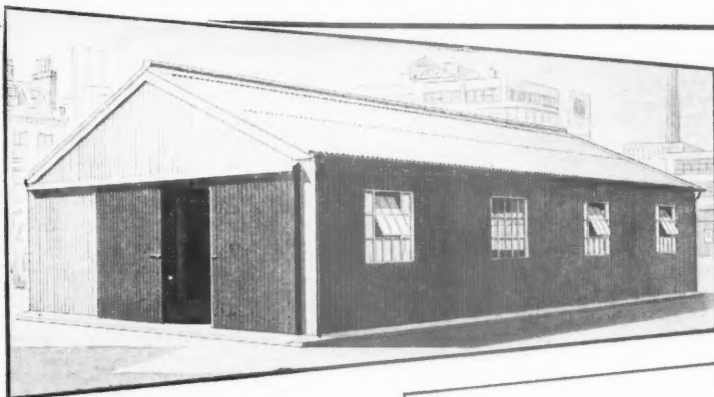
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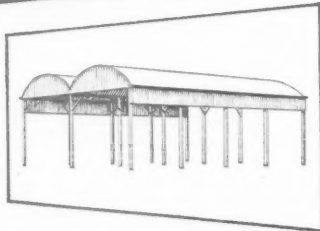
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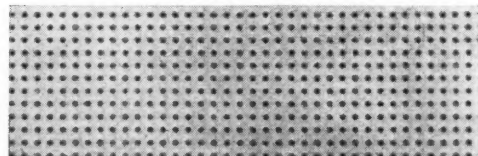


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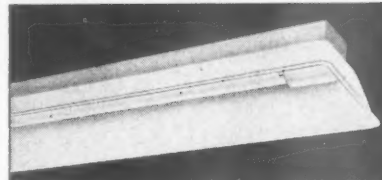
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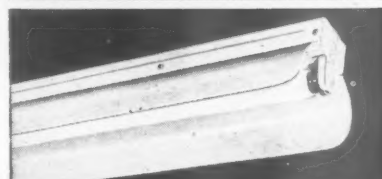
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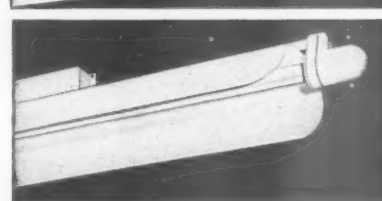
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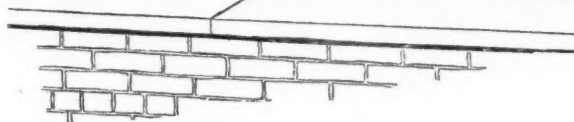
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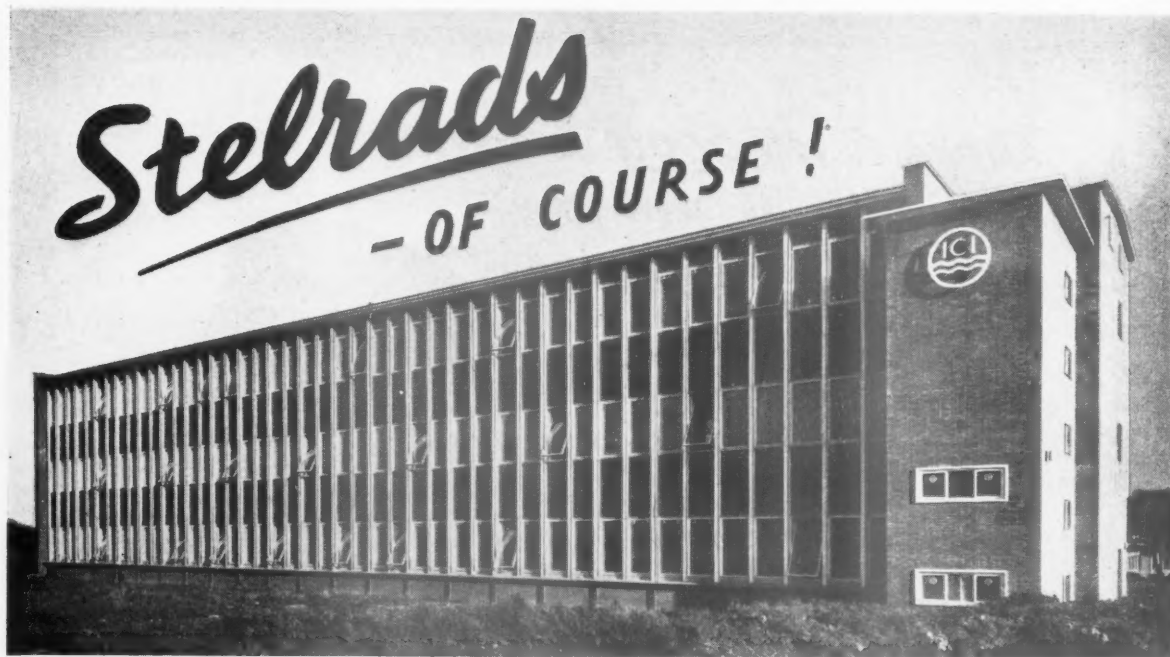


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Consulting Engineer—Felix J. Samuely, B.Sc., A.M.I.C.E.

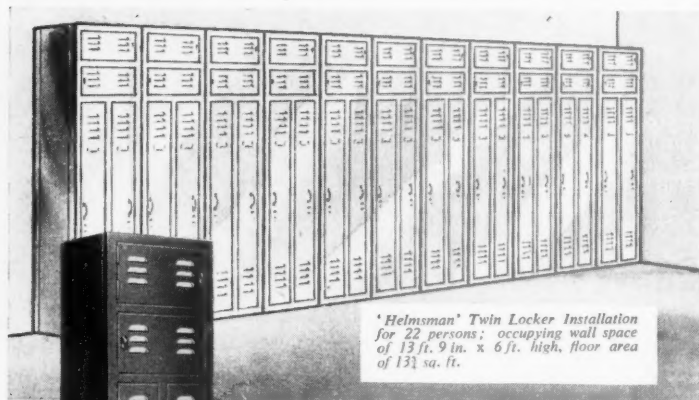
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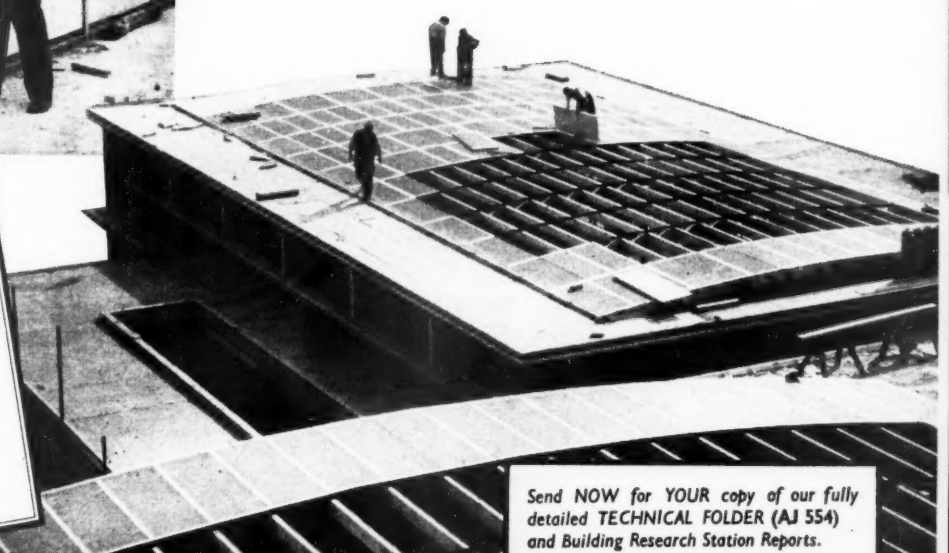
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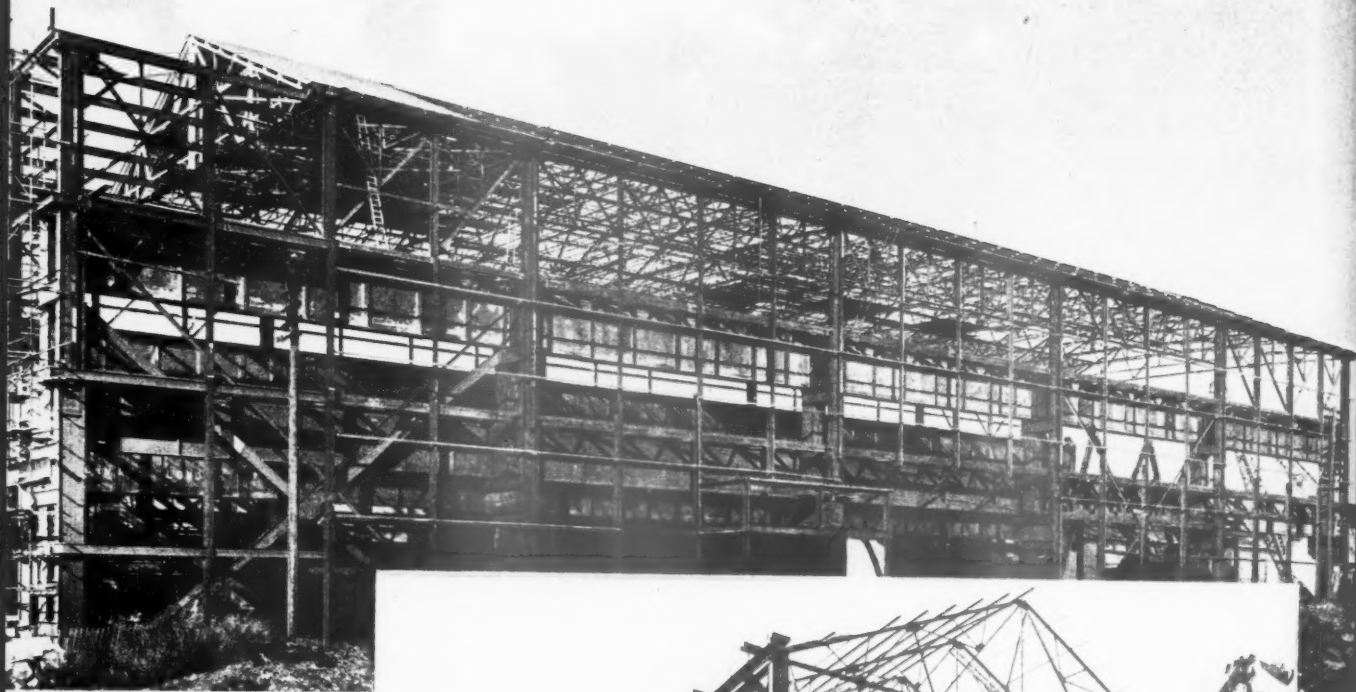
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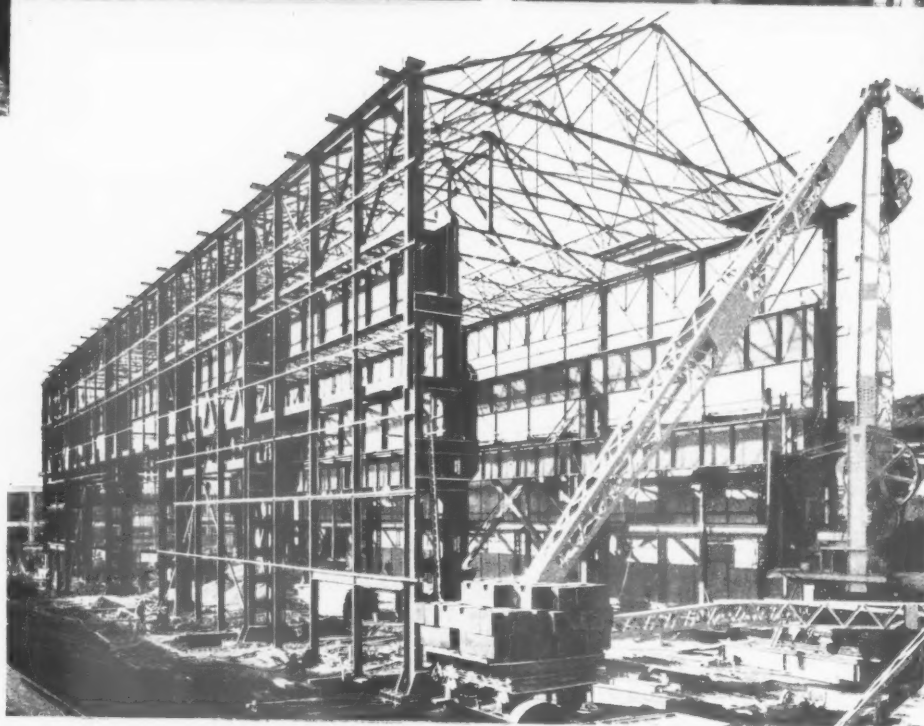


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#### THE ROYAL ACADEMY

Why don't more good designs get hung in the Royal Academy's Summer Exhibition?\* The answer is simple: because they don't get submitted. And why don't they get submitted? Only because most architects look on the Academy as a rather tired joke. If you compare this year's exhibition with those of earlier years you will find that the standard has improved. But it will not improve sufficiently until the bad designs and those that are good of their kind, but far too trivial to be hung, are displaced by . . . your own work perhaps. ASTRAGAL hopes to see you represented next year.

\* See pages 538 and 543.

#### SIR DAVID'S SERMON

Sir David Eccles certainly gave the corporation of Coventry a stiff pi-jaw when he declined to withdraw the licence to rebuild the cathedral, and ASTRAGAL cannot help feeling that an old-fashioned talking-to was exactly appropriate to the situation. The recent behaviour of Coventry Corporation—over civil defence as well as the cathedral—has had about it an air of Kier-Hardie revival, a sentimental attempt to put the clock back to the good old days of whiskered tub-thumping. This is not to cast any aspersions on the possible rightness of the Corporation's attitude, but simply on the atmosphere of corny melodrama in which that attitude has been made known.

In making the rhetorical query "But can we be sure that a cathedral would be so useless? Is it always right to prefer things seen to things unseen?", Sir David was administering a properly head-masterish rebuke to a group which would have given a much better impression of meaning what it said if, instead of timing its remarks for maximum embarrassment value, it had maintained a steady, vociferous and well-reasoned opposition to the cathedral project ever since it was first mooted.

#### DON'T FENCE HIM IN

A special correspondent in *The Times* was obviously upset to have to report that elm-axer Eccles has now turned his attention to removing the yew hedge (which hides a wire fence) round St. James's Park. He implied that Sir David Eccles only found favour for such action within his own Ministry. But adverse criticism of the hedge was

clearly expressed in *The Architectural Review's* excellent article on St. James's Park as long ago as November, '51, and was backed by this column and all those who admire the work of Nash and suspect the æsthetic sense of market gardeners and horticulturists.

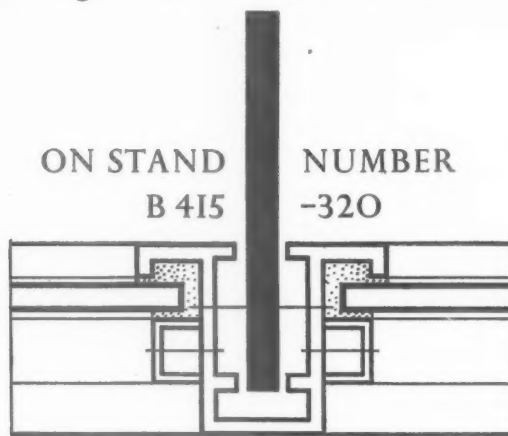
Even without the yew hedge there remain three wire fences between Birdcage Walk and the park. Cannot these go too? One might well ask if this park needs a ring fence at all in the accepted sense, and whether greater reliance could not be placed on moral and psychological barriers than on wire mesh—or any other—fences (which—to carry things to a logical, if preposterous conclusion—would have to be six foot high, and barbed, to deal with crowds *really* effectively, especially on public occasions). Sir David is, apparently, still making up his mind about the most suitable kind of railings to substitute for yew and wire. If his advisers have not the courage to suggest doing without a fence (and it *would* be nice to hear their arguments for one) then for Nash's sake let us have no more than a post and (single) rail.

And now we have given support to Sir David, what about a favour in return? A simple request, just (we hope) a question of pulling some drawings out of the old plan chest: the publication of the planting (trees and shrubs) plans for the Kensington, Hyde, Green and St. James's parks for 1955, 1975, 2000 and 2055—plus some sketches. . . . It would be very comforting to public opinion to know that



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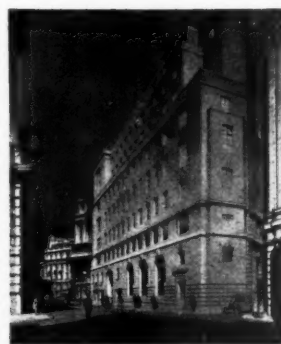
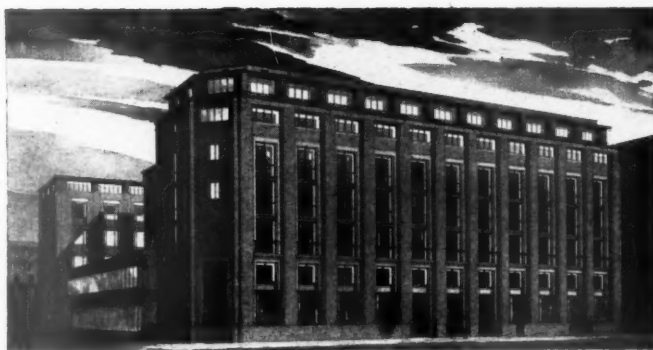
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These schemes for buildings in the City of London are on view at the Summer Exhibition of the Royal Academy, which, in the true words of John Russell (writing in the Sunday Times) "has given its approval to what is, in effect, the spoliation of the City of London and the neglect of an opportunity such as has not been given to us since the Great Fire of 1666." (Top: left, building for The Financial Times, Cannon Street, by Professor A. E. Richardson; right, the Bankers' Clearing House, E.C.3, by Austen Hall. Bottom: left, Banking Hall, Barclays Bank, Exeter, by W. Curtis Green, Son and Lloyd; right, Heathcoat House, Savile Row, W.1, by William J. Biggs (Stone, Toms and Partners).



the MOW was carrying out a long-term landscape policy, because trees (slow, inefficient, untidy-leaved Dame) are remarkably long-term too.

#### NICE FOR THE NIGHTINGALE

Congratulations to Westminster—and how long it has been since this could conscientiously be said—for their tidying-up of Berkeley Square. No fussy little flower beds—sensibly wide paths and a prettily painted-up little central gazebo. And from the published minutes of the Works Committee we learn that the Council are now being asked to decide whether they will or will not keep the Coronation coloured lamp-posts which proved "so pleasing in appearance," or adopt some other variation from the previous standard aluminium.

Passers-by will have noticed a few experiments outside the City Hall, presumably for Councillors' votes, and it will be interesting to see the outcome. How nice, anyway, to see that echoes of Coronation colour and gaiety still sound in the council chambers of local authorities, once again proving how right—as usual—Lethaby was when he remarked that there was nothing like a national festival for restoring civic pride.

#### BOOKS FOR ARCHITECTS

C. H. Aslin made last week his public debut as RIBA president elect—or at least that's what Mr. Yerbury told us he was—by opening a pleasant little book exhibition jointly organized at Store Street by the National Book League and the Building Centre. It consists of about 300 architectural books now in print, and although it is rather under-captioned and more like a book-shop than an exhibition, ASTRAGAL warmly recommends it.

Some of you may be interested to see that the total cost of such a collection—and many of the books are surely "must" reading for the would-be cultured architect—is about £300. Thank goodness for libraries.

#### NOT-SO-SILLY SUFFOLK

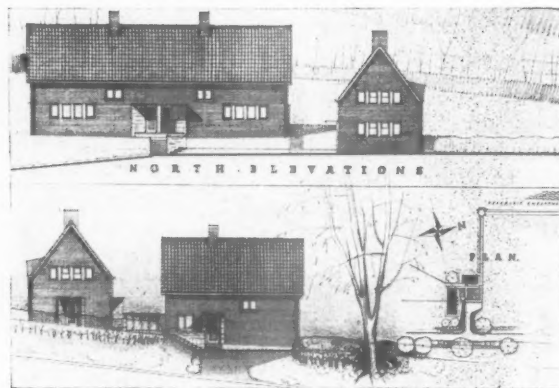
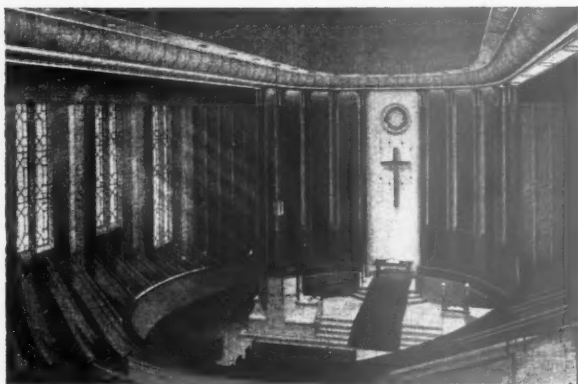
If you are designing a stately home or a grass-drying plant in the administrative county of West Suffolk (ASTRAGAL, who has East-Anglian connections, will never admit that West Suffolk is a real county) you are eligible for an award given by the Council of the aforementioned county. The award is open to

all architects responsible for buildings, residential or commercial, erected in West Suffolk by private enterprise in the year ended December 31, 1953, and its aims are: to encourage good local architecture and building, to stimulate public interest in good building, and to encourage developers to employ the services of an architect—and one must concede that the third aim falls very agreeably on the architectural ear.

Further details from the County Planning Officer, Shire Hall, Bury St. Edmunds; the assessor is Rowland Pierce, and the only thing the regulations don't say is what the award con-

Rodrigo Moynihan's portrait of Howard Robertson, President of the RIBA, is on view at the Royal Academy's Summer Exhibition.





## The Royal Academy

What do we look for in the Architecture Room at the Royal Academy's Summer Exhibition? If we go there looking for a display that is representative of the profession's work, we certainly find it. Consider, for example, these designs from the current exhibition. At the top of the page is a model of the excellent scheme for Sheffield University by Gollins, Melvin, Ward and Partners. Above left, and left, is the strange restoration of the City Temple (by Lord Mottistone) with its part-Odeon interior. And above right is an efficient but unimportant scheme, by John Strubbe—without even the news interest of the City Temple—which the hanging committee must surely have scraped from the bottom of the barrel this year; the general standard of exhibits is slightly higher. But why isn't the exhibition packed with the best of the country's architecture? Not because the outstanding designs are rejected, but because they are not submitted. If architects want an Architecture Room at Burlington House, where the layman can be dissuaded from thinking of neo-classical horrors as good buildings, it is up to them to do something about it. The bad and the insignificant could easily be crowded out if the majority of architects stopped thinking of the Academy as an annual joke.



sists of—so have a go, you might get a medal, or a blue-and-white enamel plaque with your name on it affixed to the building, or a civic dinner in Shire Hall, or goodness knows what.

#### NO COMPETITION

Some private architects in Devon, it is learned, are perturbed that the County Council will not consider holding a competition for the Council's proposed new offices to be built on "20 acres at Bellair and Coaver, Exeter, at a possible cost of £5,000,000," proposing instead to select an architect from a "short list." The *Torquay Herald & Express* quote the Chairman and Vice-Chairman of the Council (Sir John Shelley and G. C. Hayter-James) as saying, respectively: "competition would be against the interests of the Council" and "a good firm of architects, with plenty of work, would not bother to go in for a competition."

The Council has very rarely, if ever, given work to private architects since the war, so the local boys should not complain of the lack of a competition but rather congratulate the Council on not automatically giving the work to the County Architect—no offence to him intended, please. (Though they might try and straighten out the ideas of the above-mentioned councillors, who are, ironically enough, honorary members of the Devon and Cornwall Society of Architects.) The "short list" from which the Council will select the architect for this plum job will make interesting reading: half local firms, and half London ones, in all probability. There's no doubt that architect Smith, of Torquay, is not nearly so impressive, nor even probably as expensive, as Mr. Smith, architect, of London, and councillors will normally have the latter every time.

Whether this is just a case of prophets being unhonoured in their own county, or the golden magic of a metropolitan address, or just an honest belief that they will get a better building from a famous name—"How can they tell?" will say the locals "unless they give us a chance?"—ASTRAGAL wouldn't like to guess—but it seems unlikely that a job of such a size can ever go to a small office.

ASTRAGAL

### POINTS FROM THIS ISSUE

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#### The Editors

### A REGRETTABLE ARCHITECTURAL DISSERVICE

THE earnest, conscientious and, in parts, sound, report titled *Architectural Services* by the Metropolitan Boroughs (Organization and Methods) Committee is so shot through with half-baked reasoning and false assumptions that the appropriate committees of the RIBA should attempt officially to correct some of the errors which have crept into what is obviously a sincere and well-meant document. The report seems to have been produced from a most mundane viewpoint by writers with little or no creative sense whatsoever. In the space available it is only possible to indicate superficially this commonplace approach to architecture. For instance, the report recommends the use in a new design of plans, layouts and details (subject to "modifications depending on the nature and site of each scheme") prepared in connection with other schemes in order to shorten the time given to designing. But it is surely a fundamental part of the training of a good architect that he is constantly improving the quality of his plans and details, and old drawings are re-used only when they cannot be improved upon at that point in the architect's programme. Designs remain unmodified because they are good, not because it saves time to use them over and over again.

And then again, the report recommends that councils should consider "the use of architectural competitions only if they are undertaking the development of a large site or the erection of a building of major public significance for which a *high standard of architectural design is desirable*" (our italics). Surely a high standard is always desirable, indeed, essential? Surely the simple answer to the question of when to hold a competition is that the competition system is a useful way of relieving staff if they are about to become temporarily overloaded with work, or if a design is quickly required for a specialized type of building of which the existing staff and local private firms are unfamiliar.

Reference is made to the disruptive effect of frequent staff movement from office to office. This movement is accepted, and the report proposes: an organization of staff to ensure continuity of work (i.e., several assistants on every design, so that if one goes the remainder can carry on); "reducing to a minimum the delay . . . between one officer leaving . . . and a replacement taking up his duties"; and introducing "an informal 'trainee' scheme for architects." Now the reason for the frequent movement of staff is because of the desire for wider experience and more pay and responsibilities.

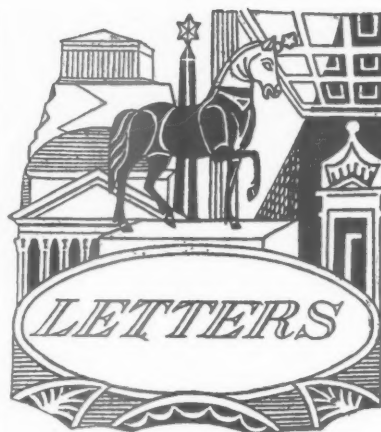


These are the fundamental problems which this report should have tackled. It is evident that the Metropolitan Boroughs are determined to keep their salary bills low by employing a considerable proportion of juniors, probationers and students in their architect's department. Indeed, to add to the supply, they suggest taking boys straight from school or after National Service who could attend night school or could "study during any slack periods in the office . . . with the help and guidance of the senior architects." When the profession is struggling to ensure the success of whole-time architectural school training at university rather than technical school level, such a proposal is, to put it mildly, somewhat retrogressive.

The report compares "team" and "group" methods of office work. The team, it states, consists of senior architect, assistant architect, architectural assistants, drawing office junior (what the JOURNAL usually calls a "pyramid") and the group largely of fully qualified architects with a few junior staff (indeed, much as discussed in the JOURNAL by the Guest Editors in '52). The report, needless to say, condemns the group on grounds of costs ("each member . . . will expect the grade appropriate to an architect in charge of the design of a scheme although working as such for only part of his time"); and because of friction between members of the group; and the difficulty of planning a flow of work to ensure that "each architect is fully occupied" and gets assistance when required.

It must, of course, be difficult for the local authority mind, so used to the concept of big fleas, little fleas, *ad infinitum*, to visualize the ability of professional men to work as a group on a basis of equality, mutual confidence, and frank criticism. It is by this method that the best architectural work in this country has been produced since the war. But perhaps one should be grateful that this O and M committee found space to mention group working at all.

One other important point remains. The report suggests that the "cost for the preparation of new schemes, including staff overheads and clerical assistance, but excluding costs of accommodation, should be, on average, no more than two-thirds the *scale fee* [our italics] appropriate to the type of work being carried out." It is not shown how this figure is arrived at, and, to nip in the bud arguments between public and private architects, the RIBA might institute an enquiry into the whole question of the rival costs of using public and private architects. It is obvious, at least to the economist, that the private architect, without the guarantee of continuity of work, is carrying a greater risk and therefore should be paid the higher. But the figure of one-third more cannot be readily accepted without much more concrete evidence. When it comes to public and private offices competing against each other on grounds of costs there is a very real danger of offices economizing the easy way—the way which three-quarters of the profession most dread—by cutting salaries and reducing staff. Such dangers to the profession could be avoided if more information was made available.



D. Cooper, A.R.I.B.A.

R. N. Iredale, A.R.I.B.A.

D. Jennings Smith, A.R.I.B.A.

Edgar Lewy

Basil Taylor

Librarian, Royal College of Art

Timothy Rendle, A.R.I.B.A.

### Picking your Leaders

SIR,—I would like to congratulate the editors on their decision to give publicity to the views of candidates for election to the RIBA council (see AJ, April 29).

The RIBA, at long last, appears to be becoming aware of its responsibilities as a professional body, and your action gives members an opportunity to vote objectively, and to make certain that this trend is encouraged and strengthened.

It is a great pity that the views of representatives of allied societies and societies in alliance with the RIBA are not known. They form a large proportion of the council, and as far as the majority of RIBA members are concerned, their seats are gained by a most indirect method of election.

Perhaps a candidate will advocate an investigation?

D. COOPER.

Coventry.

SIR,—Knowledge of the policy adopted by candidates for the council will be a great help to members of the RIBA living far from Portland Place. Mere architectural ability is, unfortunately, no indication of an appreciation of the complex professional problems confronting the council today, nor does a vote cast for a candidate because he has, at least, been known to speak at a lecture, mean that he is suitably qualified for a seat on the council.

I would like to go further than your request for a statement for publication, and suggest that the RIBA should circulate, with the voting papers, an official statement of policy made by each candidate.

R. N. IREDALE.

Scotland.

SIR,—Your invitation to nominees for the forthcoming RIBA council elections to outline their views on certain important issues will, I am sure, be welcomed by a great many members who are anxious to use their vote, but know little, if anything, of those for whom they are voting beyond their ability as architects. For this reason it is to be hoped that candidates will respond.

D. JENNINGS SMITH.

Wilt.

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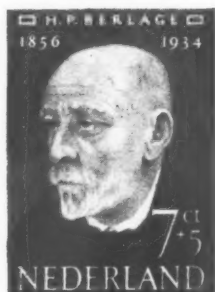
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## Architectural Post

SIR.—This postage stamp, which was issued by the Netherlands post office on April 30, features the architect H. P. Berlage (Bourse, Amsterdam, etc.). The drawing is the work of Edgar Fernhout, Amsterdam, and the stamp is part of a set of five values, in aid of Netherlands Social and Cultural Funds.



The others depict Martinus Nijhoff (poet), Willem Pijper (composer), J. Huizinga (historian), and Vincent Van Gogh (painter).

The issue was photogravure-printed by Messrs. Enschede, of Haarmel, and remains on sale at all Dutch post offices until June 30.

EDGAR LEWY.

London.

## A Wrong Implication

SIR.—The April issue of *The Architectural Review* contained an article by Professor Pevsner analysing and criticising the series of talks *English Art and the Picturesque* which I broadcast some months ago on the Third Programme. As no response to that can appear before the June issue of the *Review*, I should be grateful if you would allow me, in the columns of the *JOURNAL*, to correct an impression which may have been gained by some readers from paragraph nine of Professor Pevsner's article. The implication is that in the course of my broadcasts I made criticism of the Royal College of Art and of the work of some of its students. In fact, my scripts contained no mention of the College or of the work being done there. I think it also proper to mention that the example of graphic design by a former student of the College, chosen to illustrate and amplify that same paragraph was, in fact, made as a joke or parody—and commissioned as such.

BASIL TAYLOR.

Kent.

## Fashion and Plate Glass

SIR.—May I quote ASTRAGAL (March 25)? "Of the unsuccessful entries, that of Louis de Soissons was true to form. Any visitor to Plymouth or the Royal Academy should recognize the type."

I see in this passage an alarming trend that is everywhere in evidence today in architectural criticism. A trend which is concerned with fashion and plate-glass at any price, and one that forces me to ask is it good design we are really interested in. Is our reckless enthusiasm for the superficial characteristics of "modern" blinding us to our aim of good architecture. Do we, in fact, really prefer buildings with flat roofs, glass and steel facades and no qualities of order, proportion and scale, to those that, possessing these qualities of design, possess also pitched roofs and moulded stone trimmings. Let us be rational, obviously the medium is of little importance and it is the quality of the artist that

matters. Brick and stone? steel and glass? it is up to the designer. If we and posterity want some reward for eye and intellect from our new architecture, I suggest that we must be less concerned with "type," school or degree of modernity, and more with the design ability that the chosen form expresses.

Hove.

TIMOTHY RENDLE.

ASTRAGAL replies: While largely agreeing with Mr. Rendle, I fear that he misunderstood my sentence which he quotes at the beginning of his letter. This was intended to imply that any visitor to Plymouth—where most, if not all, of the schools given out to the private architects were designed by Louis de Soissons—would recognize the kind of school design peculiar to the de Soisson office.

## N E W S

### AA

#### New President

Peter Shepherd has been appointed president of the AA for its 108th session. His period of office begins on June 1.

### CCA

#### Symposium on Mix Design

The CCA's Symposium on Mix Design and Quality Control of Concrete will be held from May 11-13 at the Empire Rooms, Tottenham Court Road, W.1.

### MOE

#### Regulations for School Premises

New regulations for the standards of school premises came into force on April 26. These replace the last regulations, issued in 1945, and do not represent any drastic departure in principle. There is, however, a significant reduction in the playing field areas and the gymnasium has been cut out from one- and two-form entry secondary schools.

### BRS

#### Single Stack Plumbing

On Monday, April 26, a demonstration of single stack plumbing for multi-storey flats was given at Queen Anne's Mansions, Westminster. Sir Herbert Manzoni, Chairman of the Building Research Board, presided, and A. F. E. Wise, of BRS, and J. Croft, chief sanitary inspector of the LCC—those responsible for the research work—explained the system. The causes of trap unsealing being fully understood, it is now possible to install five-storey stacks without anti-siphonage stacks and branches. The gathering was invited to watch a discharge from 60 ft. up, passing a basin and a w.c. branch in transparent piping, and observe that the seals remained intact. The design criteria which permit this are broadly those contained in BRS Digest Nos. 48 and 49 and in BSCP 304, but a more full account will be given in the Technical Section in a future issue. Mr. Wise and Mr. Croft presented a paper on the subject to the Scarborough

Health Congress on April 29. Further reference to this advance in building technique is made in the Technical Section leader on page 557.

## GOLF

### RIBA v. BAGS

The annual match between the RIBA Golfing Society and the Building Alliance Golfing Society was held at Camberley Heath on April 27 and resulted in a narrow win for the BAGS.

Of the singles matches in the morning the architects won 9, lost 10 and halved 3; the foursome games resulted in 5 wins each with 1 game halved. Thus the Building Alliance Golfing Society scraped home by 15 matches to 14, winning the final foursome by the last put on the 18th green.

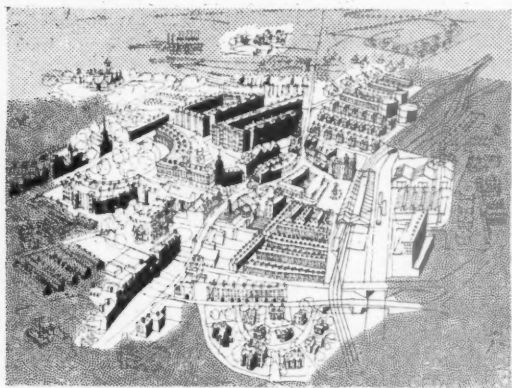
## ROYAL ACADEMY

### Summer Exhibition

Among the designs exhibited in the Architecture Room at the Royal Academy's Summer Exhibition, Burlington House, is Bucklebury House, designed by Owen Campbell-Jones; development for the University of Sheffield, by Gollins, Melvin, Ward and Partners; chemistry laboratories for Cambridge University, by Easton and Robertson; London Airport passenger building, by Frederick Gibberd; the engineering college for Rangoon University, by Raglan Squire and Partners (see last week's *JOURNAL*), and Basil Spence's Coventry Cathedral.

Also exhibited are the following:—The Cheshire Foundation Home, Liss, Hampshire, W. H. Wakins, Gray and Partners; Secondary Technical School, Roe Green Lane, Hatfield, for Hertfordshire County Council, Howard Robertson; Houses at Sutton Bingham Reservoir for the Yeovil Rural District Council, John A. Strubbe; New Police Station at Hornchurch, for Essex County Council, R. O. and C. M. Vine; Clothworkers' Hall; E.C.3, Whinney, Son and Austen Hall; Metropolitan Police Housing: Tower House Site, Highgate, Sydney J. Hanchet; Metropolitan Police Housing: Buxton House, Snaresbrook Road, Charles R. Fowkes; Memorial to the Missing, Dunkerque Cemetery, Philip Hepworth; Banking Hall, Barclay's Bank, Exeter, W. Curtis Green, Son and Lloyd; Entrance to Regent's Park Barracks, N.W.1, Louis de Soissons; The Leathersellers' Company: a Proposal for the Reconstruction of the Livery Hall, Louis de Soissons and Partners; Parish Church and Hall, Twydale Green, Gillingham, Arthur Bailey; Lord Mayor Treloar College, Froyle, Hampshire, W. Curtis Green, Son and Lloyd; Royal Observatory, Herstmonceux: Time and Nautical Almanac Building, Brian O'Rourke; Offices, No. 20 Albert Embankment, London, Sir Thomas P. Bennett; Phaleron War Cemetery, Athens, for the Imperial War Graves Commission: the War Cross and Terraces, the Entrance and the Memorial to the Missing, Louis de Soissons and Partners; Bridstow Bridge, Ross-on-Wye, Arthur Bailey; University of Reading, Whiteknights Park: Faculty of Letters, Howard Robertson; House at Reigate, John R. Stammers; Broadstairs Modern Secondary School, Woodroffe, Buchanan and Coulter; Building for the Royal Geological Society of Cornwall, Penzance, E. Vincent Harris; Woburn Abbey, Bedfordshire; Reconstruction and Alterations, A. E. Richardson; The Financial Times: proposed new Building, Cannon Street, E.C.4, A. E. Richardson; Redevelopment: Nos. 14-15, Stratford Place, London, W.1, Ronald Ward and Partners; Keighley Technical College, Hubert Bennett; The Rebuilding of the City Temple: interior

(Continued on page 543)



The Housing Repairs and Rents Bill has now passed through the Commons and is before the Lords, and it is unlikely, therefore, that its main provisions will hereafter be substantially changed. The Bill represents an attempt by the government to stimulate the further repair and improvement of existing house property by the offer of incentives, and to the private owner the incentives take the shape of improvement grants and higher rents.

Part I of the Bill is mainly concerned with the detailed amendment of the Housing Acts of 1936 and 1949. Housing authorities have, the government feels, a dual responsibility, to take action themselves, and to encourage and aid private owners to take action over their own properties. Clauses 1 to 6 of the Bill extend the powers of the local authorities, and the extensions lie mainly in the direction of giving local authorities more flexible powers. Clause 1 requires each authority to prepare, within twelve months, its own plans for slum clearance. Clauses 2, 3 and 4 give the authorities greater power to recondition houses in clearance areas for continued occupation on a temporary basis in lieu of immediate demolition, and Clause 5 enables an authority to allow an owner to recondition a house which would otherwise fall to be demolished. Clauses 7 and 8 deal with the finance of the operation and provide for Exchequer grants against expenditure under these heads, broadly on the basis of the Treasury paying half the annual charges involved. Clause 9 clarifies the elemental amenities to be considered in determining the standard of fitness for human habitation.

Clauses 13 to 15 are clauses that revise the Housing Act, 1949, in the matter of improvement grants. To qualify for an improvement grant under the 1949 Act, a reconditioned house had to be made fit for an estimated further life of thirty years; that period may now be reduced to as low as ten, if the local authority so decides, and there is a corresponding reduction in the length of lease which an appli-

cant for a grant must hold. The maximum for grants is raised, but, in normal cases, the authority's grant is not to exceed half the cost of the work, with a limit of £400 over each housing unit created. In estimating the total cost for grant purposes, professional fees may be included as part of it (an innovation). The duty of the local authority to lay down the maximum rents for the new dwelling remains, and new dwellings created with the aid of a grant will be subject to the Rent Acts, but the annual return allowable to an owner on his own fresh investment in reconditioning is increased from 6 per cent. to 8 per cent. of the total cost.

Part II of the Bill makes amendments to the Rent Restriction Acts and the clauses of major interest are those which allow a landlord to raise the rent of a statutory tenancy (Clause 22) and which free from rent control for the future newly-created dwellings, both freshly built and coming into existence from a conversion scheme (Clause 34).

Clause 22, and the section of the Act which will result from it, will have to be read carefully and in detail by all those who believe that it will enable them to increase the standard rent of their properties. In outline, before a landlord can claim an increase in rent from a protected tenant he must be prepared to show that the property is in good repair and that he has spent in repairs to it either three times the "statutory repairs deduction" (set out in the Third Schedule to the Bill) in the previous twelve months or six times the statutory repairs deduction in the previous three years. If he can, he may increase the rent by an amount equal to twice the statutory repairs deduction for that property, but the total rent when increased must not exceed twice its gross annual value. The statutory repairs deduction is a proportion of the annual value of the property and it varies from some 50 per cent. of the value at the lower end of the scale to 24 per cent. at the higher. A notice of increase of rent may be challenged by a tenant, and the

county court is the final arbiter of any dispute.

Clause 34 has been mentioned above. Freedom from the Rent Acts is given to houses and "separate and self-contained premises produced by conversion" completed after the Act comes into force (they may have been started before). Clause 32 of the Bill also takes out of the scope of the Rent Acts houses owned by local councils, by New Town development corporations, by housing associations incorporated under the Industrial and Provident Societies Act, 1893, and by charities, while they remain in that ownership. Clause 37 allows a tenant of premises converted with the aid of an improvement grant to demand a premium on a transfer of his lease if it is for a term exceeding 21 years, and Clause 38 extends the power of a tenant holding under a statutory tenancy to recover as a capital sum on a transfer of his holding what he has paid for improvements. The final clause of general interest is Clause 39. This entitles an owner who provides services to a protected tenant on a pre-war tenancy to apply to a rent tribunal for an increase of rent where he can show that the cost of the services he is bound by agreement to render (covered by an inclusive rent) has increased since the rent was fixed.

## DIARY

*Library Group: Identification of unknown drawings.* At the RIBA, 66, Portland Place, W.1. 6 p.m. MAY 10

*The Society's House and Earlier Homes.* (Peter Le Neve Foster Lecture.) John N. Summerson. At the RSA, John Adam Street, W.C.2. 2.30 p.m. MAY 12

*British Industries Fair.* At Earls Court. Daily: 9.30 a.m. to 6 p.m. UNTIL MAY 14

*The Design of New Schools.* C. H. Aslin. At the RSA, John Adam Street, W.C.2. 2.30 p.m. MAY 19

*Exhibition of Polish Architecture.* At the RIBA, 66, Portland Place, W.1. Monday to Friday: 10 a.m. to 7 p.m.; Saturday: 10 a.m. to 5 p.m. MAY 21-JUNE 4

## CONVERSIONS

*Our Guest Editor for the year, Felix Walter, who will be writing another article on the conversion of old buildings for next week's JOURNAL, asked Ernest Watkins for his comments on the Housing Repairs and Rents Bill. Mr. Watkins writes on this subject below. (On the left is a sketch by Gordon Cullen—published full-size on March 11—showing the types of property whose conversion Mr. Walter will be discussing during the year.)*



*(Continued from page 541)*

of the New Church, Lord Mottistone; Plymouth Head Post Office, Christopher J. Woodbridge; Warehouse Extension, Island Street, Nottingham, Colin St. C. Oakes; Flats and Maisonnets at Digswell for the Welwyn Garden City Development Corporation, Louis de Soissons and Partners; St. Austin's Secondary Modern School for Boys, Charlton, Clayton and Black and Daviel; Proposed Church and Hall, Bentley, Staffordshire, Lavender, Twentyman and Percy; New Laboratories for the National Coal Board, Stoke Orchard, Cheltenham, Howard Robertson; Oxford University: Library for Special Faculties, Sir Hubert Worthington; Tilbury-Grays Telephone Exchange, Walter S. Frost; House at Shackleford, Surrey, Philip Hepworth; St. Columba's Church of Scotland, Sir Edward Maufe; Christ's College, Cambridge: new Turret in Third Court, A. E. Richardson; Postal Sorting Office and Garage, Thorpe Road, Norwich, Thomas F. Winterburn; Extension to St. Joseph's Church, Roehampton, David Stokes and Partners; Shop Premises, Broadmead, Bristol, Colin St. C. Oakes; Proposed Public House,

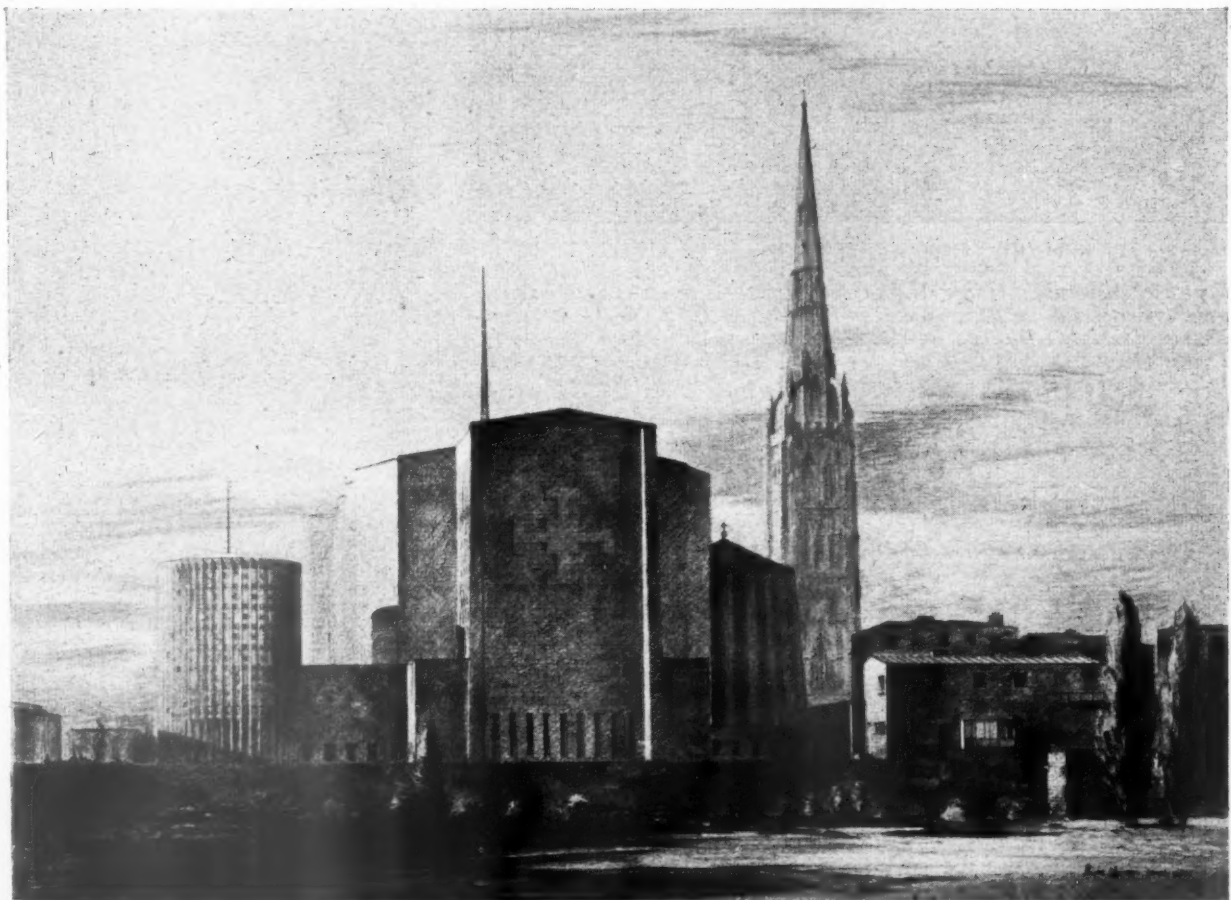
Brighton, Robert Atkinson and Partners; Proposed new Premises for the Royal College of Obstetricians and Gynaecologists, Regent's Park, N.W.1, Louis de Soissons, R.A., and Partners; Entrance Portico, Fife, Oliver Hill; design for proposed new East End, with Memorial Reredos, St. James' Church, Elmers End, Kent, Percy Gray; The Bankers' Clearing House, E.C.3, Austen Hall; New Studio Building for the British School at Rome, Minoprio and Spencely and P. W. McFarlane; Croydon Technical College: West End, Robert Atkinson and Partners; St. Theresa's Secondary Modern School for Girls, Lewisham, Clayton and Black and Daviel; Sylvan Hill Housing Scheme, Croydon, Leonard C. Holbrook; Offices: Heathcoat House, Savile Row, W.1, William J. Biggs (Stone, Toms and Partners); Treatment Works for the Yeovil Rural District Council, John A. Strubbe; Design for a Bridge over the River Cherwell at Oxford, Raymond Erith; Block of 44 Flats, Snow Hill, Bath, Terence W. Snailum; Cheshunt Secondary Modern School, Graham Dawbarn (Norman and Dawbarn); Ashburnham House, Bedford, for the Bedford Corporation, Max Lock and

Partners; Eight Houses, London Road, Ascot, for the Commissioners of Crown Lands, Clifford Culpin; Fourah Bay College, Sierra Leone: Great Hall, Library and Chapel, Graham Dawbarn (Norman and Dawbarn); Research Laboratories at Salfords, Surrey, Graham Dawbarn (Norman and Dawbarn); Uxbridge Crown Building, Reginald E. Rossell; proposed new buildings for the North Bedfordshire College of Further Education, Stanley V. Goodman; Willington Power Station, for the British Electricity Authority, Farmer and Dark; the new Ulster Hospital, Belfast: South Elevation, Frederick Gibberd; design for the Redevelopment of Marine Parade, Dover, William F. Howard; proposed Grammar School, Bromsgrove, Worcestershire, F. R. S. Yorke, E. Rosenberg, and C. S. Mardall; Metropolitan Police Single Men's Residence, John I. Elliott; Archer's Court County Secondary School, Dover: Howard Lobb; Archer's Court Secondary School, Dover, Howard Lobb.

Photographs of exhibits appear on pages 537, 538 and from this page to page 547. ASTRAGAL comments on the exhibition on page 535.

## ARCHITECTURE AT THE ROYAL ACADEMY

*A selection of the designs on view in the Architecture Room at the Royal Academy's Summer Exhibition, Burlington House, is published on the following pages. More pictures appear on pages 537 and 538. ASTRAGAL comments on page 535. (Below, a drawing by Basil Spence of his design for Coventry Cathedral.)*





# ARCHITECTURE AT THE ROYAL ACADEMY : FLATS . . .



Drawn by Gerald W. King.



Drawn by Lawrence Wright.

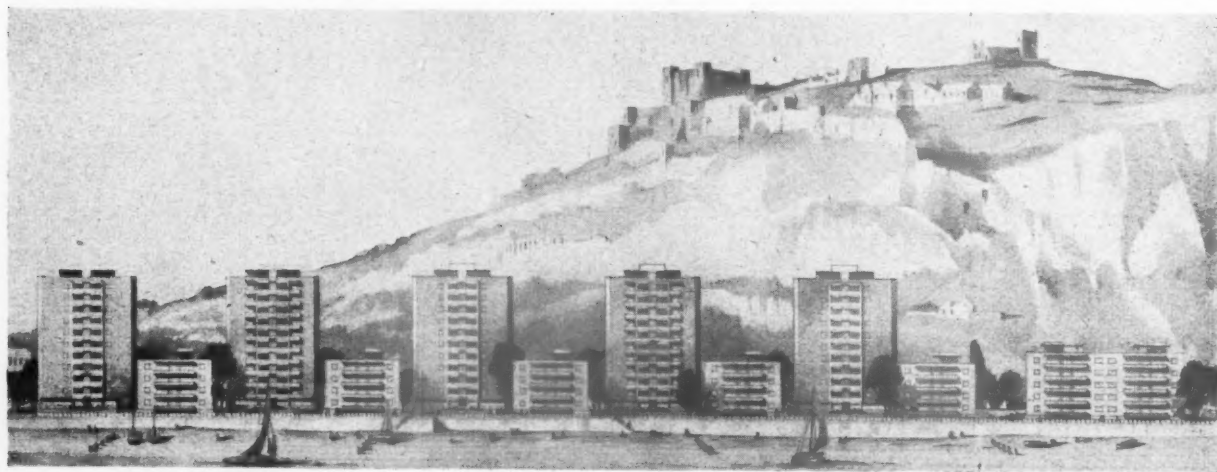


Drawn by I. A. L. Neyroud.



Drawn by F. H. Evans.

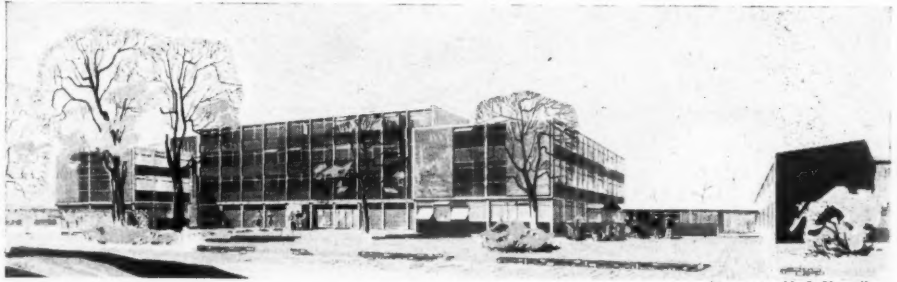
Top: left, *Ashburnham House, Bedford, for Bedford Corporation, by Max Lock and Partners*; right, *44 flats, Snow Hill, Bath, by Terence W. Snailum*. Above, *Metropolitan Police Housing, Buxton House, Snaresbrook Road, by Charles R. Fowkes*. Right, *Sylvan Hill Housing Scheme, Croydon, by Leonard C. Holbrook*. Below, *design for redevelopment of Marine Parade, Dover, by William F. Howard*.



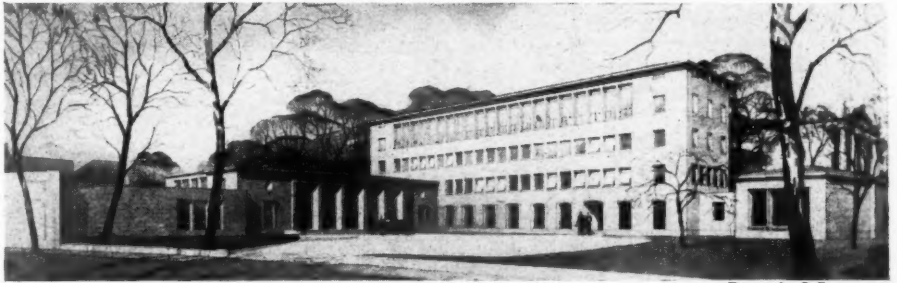
Drawn by F. H. Evans.

. . . AND SCHOOL AND COLLEGE BUILDINGS

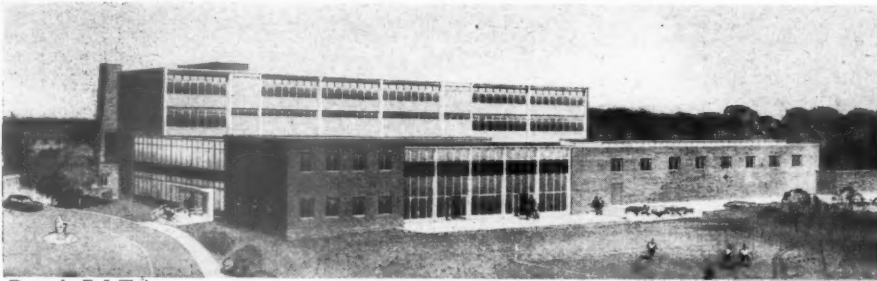
Right: top, proposed Grammar School, Bromsgrove, Worcestershire, by F. R. S. Yorke, E. Rosenberg and C. S. Mardall; bottom, proposed new premises for Royal College of Obstetricians and Gynaecologists, Regents Park, N.W.1, by Louis de Soissons and Partners.



Drawn by K. J. Kapolka.



Drawn by J. Stammers.



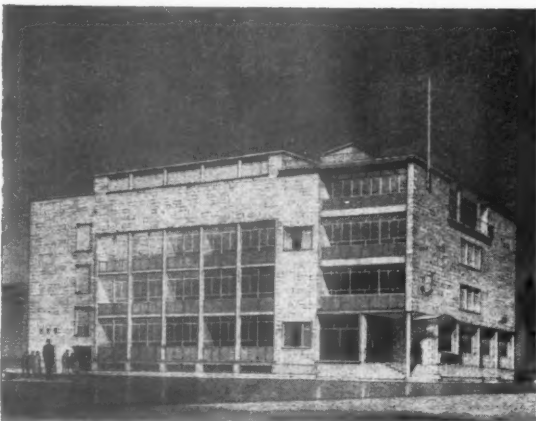
Drawn by E. J. Thring.

Left: top, St. Austin's Secondary Modern School for Boys, Charlton, by Clayton and Black and Daviel; bottom, University of Reading, Whiteknights Park: Faculty of Letters, by Howard Robertson.



Drawn by Frank Weemys.

Below: left, Keighley Technical College, by Hubert Bennett; right, proposed new buildings for North Bedfordshire College of Further Education, by Stanley V. Goodman.



Drawn by Lawrence Wright.



Drawn by John H. Bramwell.

# ARCHITECTURE AT THE ROYAL ACADEMY: MISCELLANEOUS

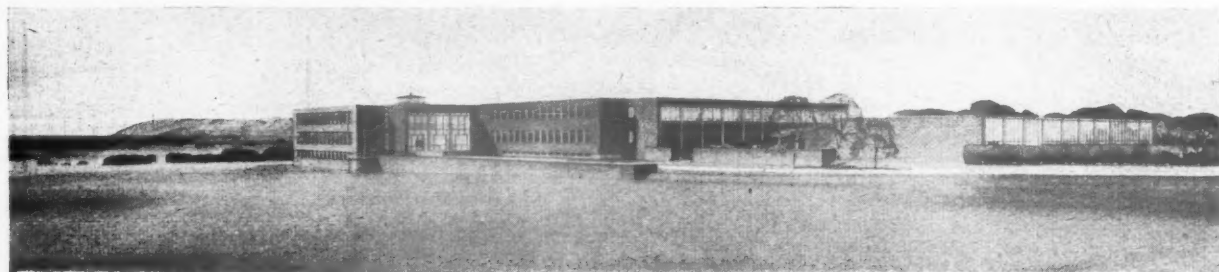


Drawn by Lawrence Wright.

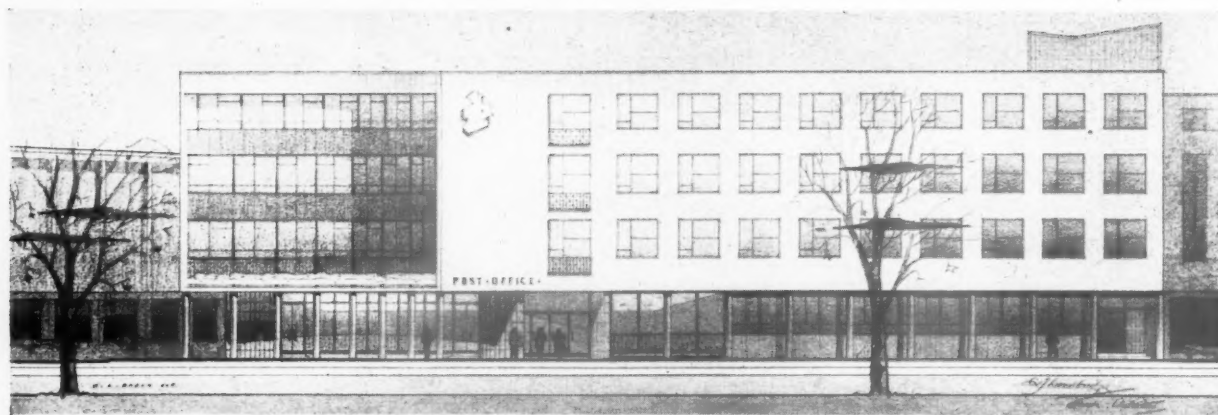
Above, warehouse extension, Island Street, Nottingham, by Colin St. C. Oakes, who also designed the shop (right) for Broadmead, Bristol. Below, Royal Observatory, Herstmonceux: Time and Nautical Almanac Building, by Brian O'Rorke.



Drawn by J. D. M. Harvey.



Drawn by Brian O'Rorke.



Drawn by W. R. Haden.

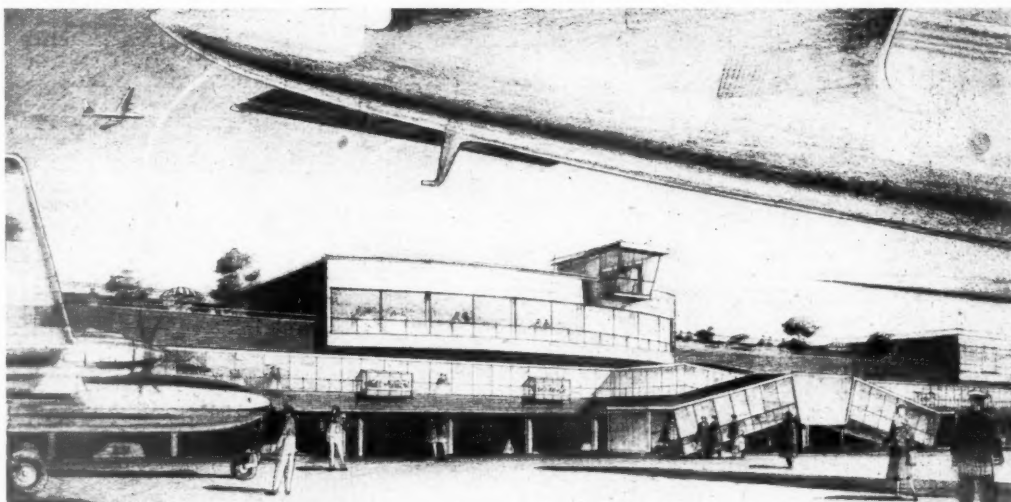






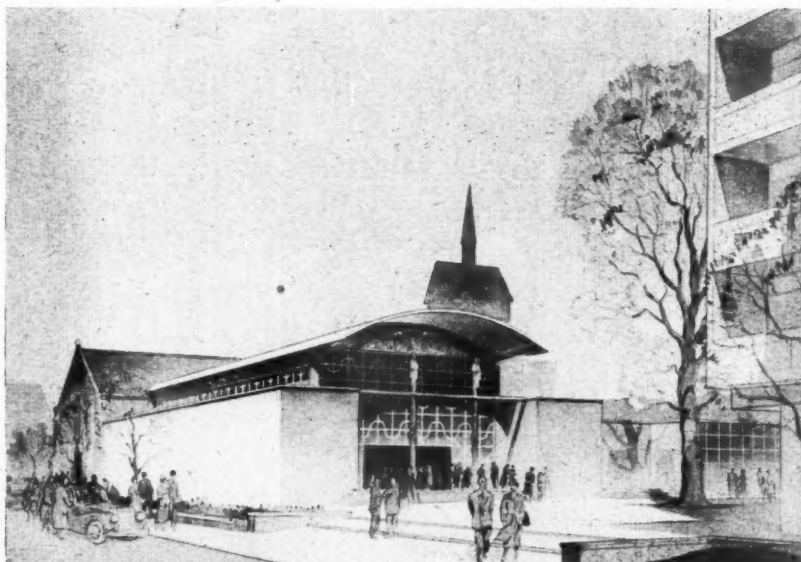
Drawn by Lawrence Wright.

*Left, research laboratories, Salfords, Surrey, by Graham Dawbarn (Norman and Dawbarn). Below, London Airport: passenger building, by Frederick Gibberd.*



Drawn by G. C. Bodgener.

*Left: above, Plymouth head post office, by Christopher J. Woodbridge; below, model of chemistry laboratories, Cambridge University, by Easton and Robertson. Right: Extension to St. Joseph's Church, Roehampton, by David Stokes and Partners.*



Drawn by Frank Hoar.



## FLATS

in LOUGHBOROUGH ROAD, BRIXTON, LONDON, S.W.9

designed by EDWARD ARMSTRONG and FREDERICK MACMANUS

assistant architect, E. HOWARD SADLER, assistants-in-charge ALLAN MURRAY

and COLIN S. BURGESS, consulting engineers, BYLANDER and WADDELL

quantity surveyors, W. C. INMAN and PARTNERS

Iveagh House, at the corner of Loughborough Road and Wiltshire Road, Brixton, consists of flats for single persons; it has been built for the Guinness Trust on a site of 1.96 acres and with a frontage of 350 ft. The building is divided into three distinct parts, namely, the main seven-storey block, which is on a north-south axis parallel with Loughborough Road, the single-storey restaurant and kitchen block to the north and the three-storey staff wing to the north-west, connected by a covered way. The scheme is under the control of an experienced superintendent, who occupies the ground floor flat in the staff block.

*The flats from the south-east across Loughborough Road.*

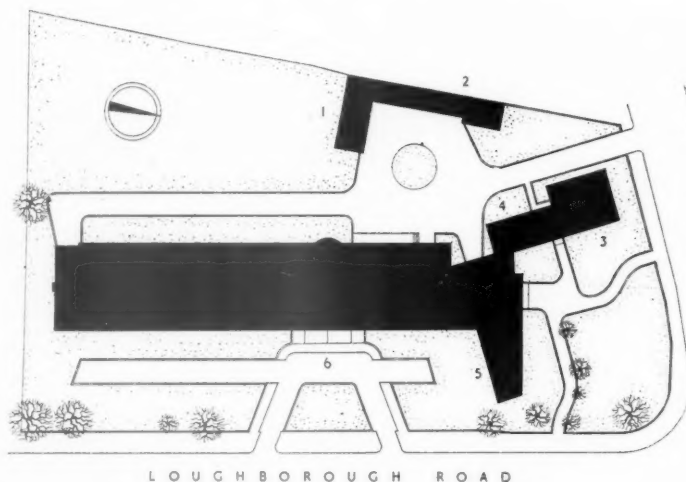




*Above, the main block from the south-west. The staff block on the left.*

## KEY

- |                |                       |
|----------------|-----------------------|
| 1. Stores      | 4. Visitors' Rooms    |
| 2. Cycle Shed  | 5. Restaurant         |
| 3. Staff Block | 6. Seven-storey Block |



Site plan

**SITE.**—Roads and paths on the site are of tarmac except for the paths to the restaurant and staff block, which are of York crazy paving. The only access to the west side of the site is through gates to the north road, in the north-west corner of the site. A chain link fence will border the site along the pavement until the privet hedge, which has been planted, has been properly established. The best of the trees found on the site have been preserved and new trees and shrubberies, together with lawns and borders have been planted.

**PLAN.**—The main block contains 161 flats on seven floors, consisting of 139 one-room flats and 22 two-room flats. The first to fifth floors have identical accommodation, namely 24 one-room flats and 2 two-room flats; the remainder of the two-room flats are on the top floor. All lettable accommodation is centred in the main block for economy of central heating, domestic hot water and other services. In order to leave as much of the external flank walls as possible free for the dwelling space, all bathrooms are placed against the central corridor walls and,



*Above, the east facade of the seven-storey block. The main entrance extreme right.*

## FLATS

in LOUGHBOROUGH  
ROAD, LONDON, S.W. 9  
designed by E. ARMSTRONG  
and F. MACMANUS

together with entrance lobbies, are mechanically ventilated by means of vertical ducts connected to horizontal extract ducts in the space formed by the barrel-shaped roof. Alternate concrete piers are U-shaped on plan and contain plumbing ducts, accessible from central corridors. As the flats are designed for single working women and there is a self-service restaurant, it was considered unnecessary to provide a self-

contained kitchen in any of the flats. Each flat contains a specially-designed kitchen cabinet containing a larder, ventilated through the external wall, storage cupboards, cooker, sink, shelves and a pull-out work top. The centre work-space of this fitting can be concealed when not in use by a roller-shutter, which automatically turns off the stove when closed. The three-storey annexe contains 3 three-room flats for the superintendent, two porters







## WORKING DETAIL

## WALLS AND PARTITIONS: 12

### TILE HUNG WALL PANELS: FLATS AT RICHMOND

*Eric Lyons, architect*



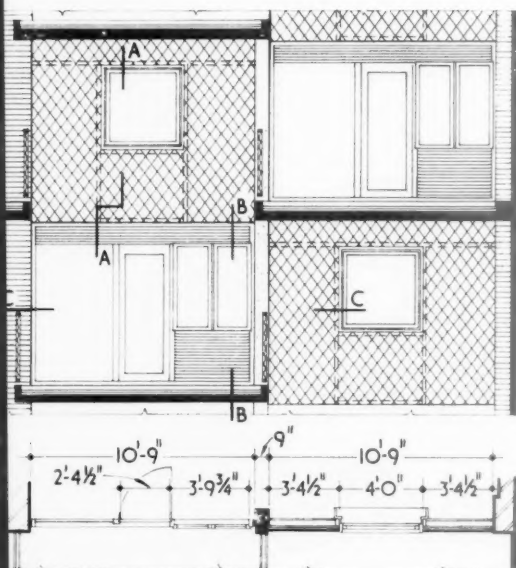
*The panel wall behind the tile hanging consists of a timber framing with a clinker block and woodwool infill. The picture-frame window is a standard heavy-section casement.*

# WORKING DETAIL

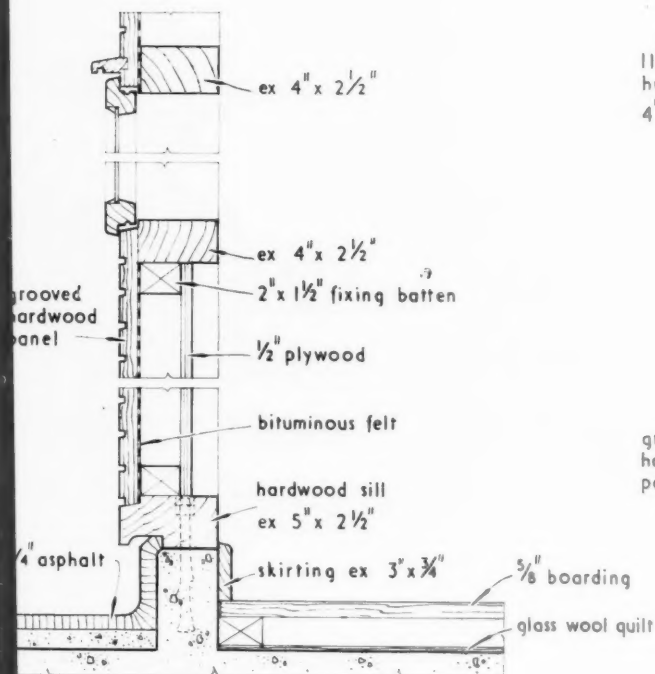
TILE HUNG WALL PANELS: FLATS AT RICHMOND

Eric Lyons, architect

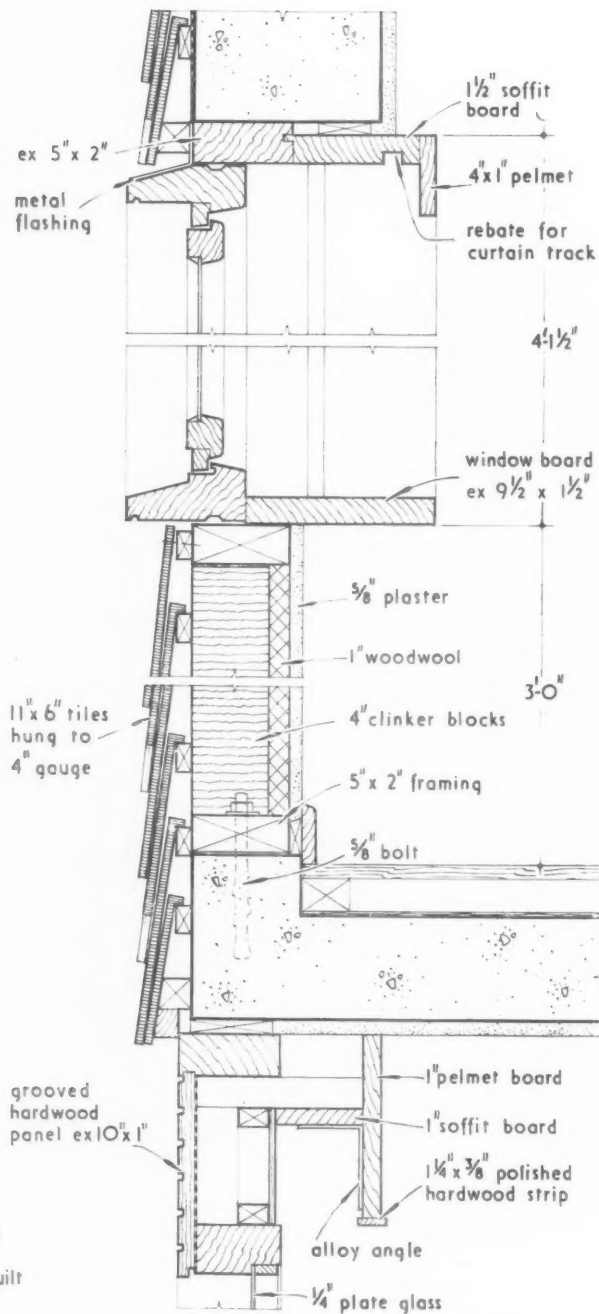
## WALLS AND PARTITIONS: 12



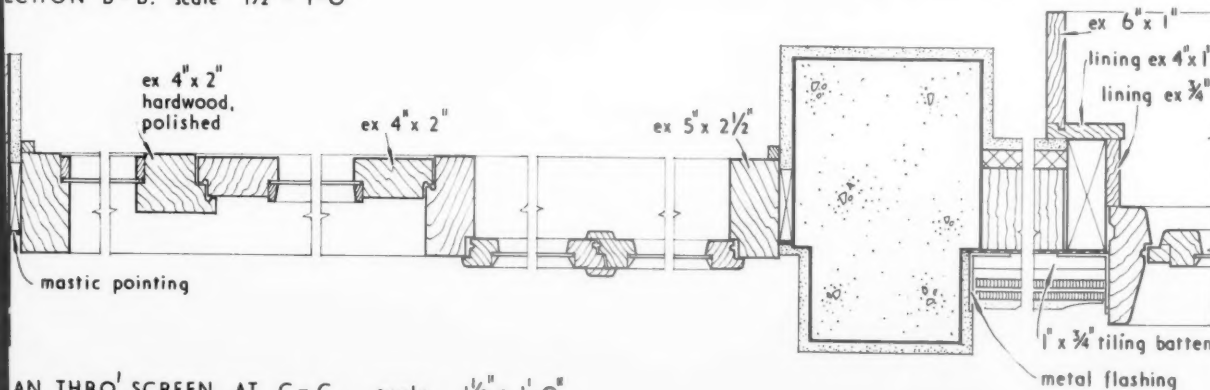
PART EXTERNAL ELEVATION AND PLAN. scale 1/8" = 1'-0"



SECTION B-B. scale 1 1/2" = 1'-0"



SECTION A-A. scale 1 1/2" = 1'-0"



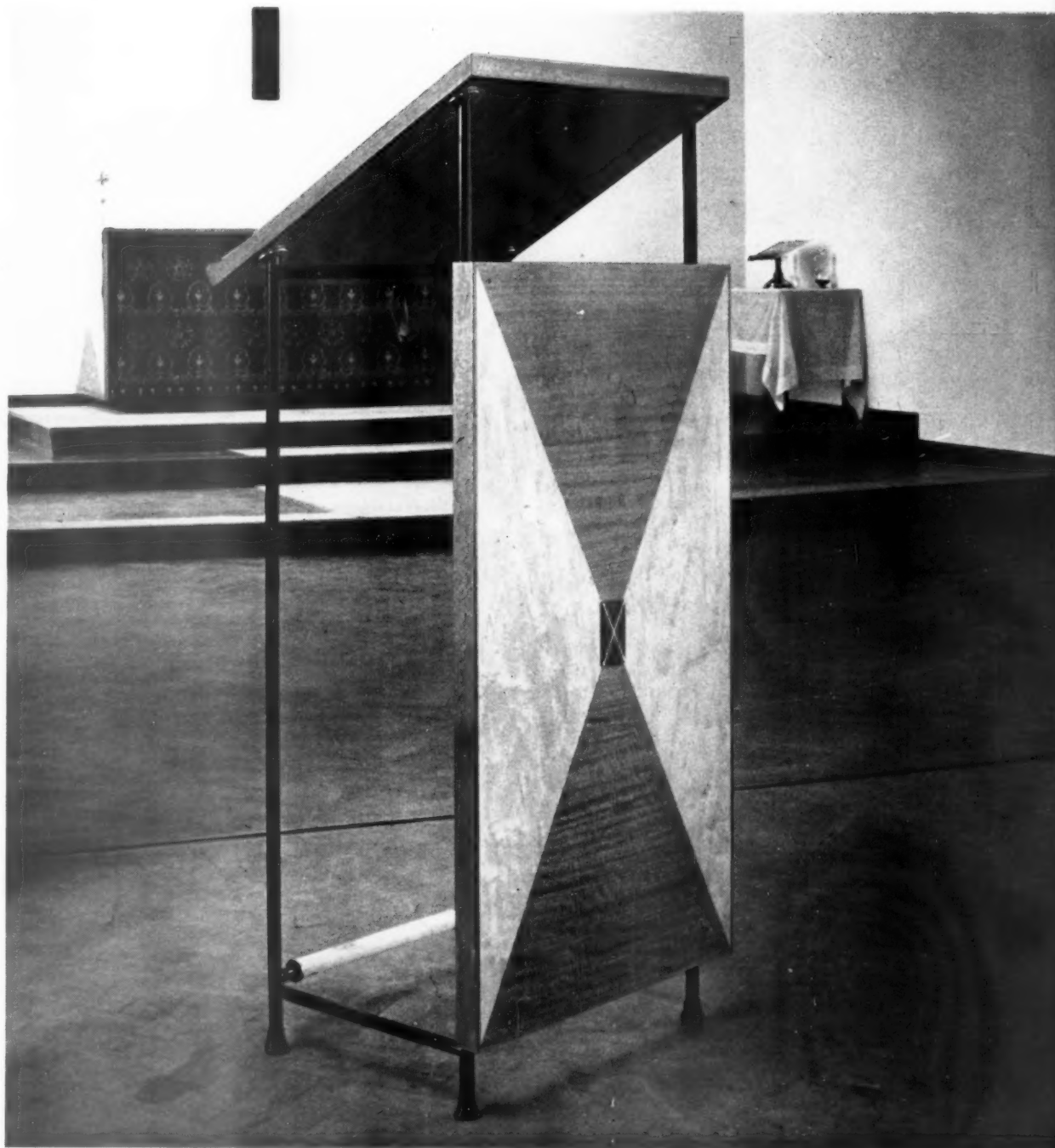
PLAN THRO' SCREEN AT C-C. scale 1 1/2" = 1'-0"

**WORKING DETAIL**

**FURNITURE AND FITTINGS: 42**

LECTERN: CHURCH HALL AT STEVENAGE NEW TOWN

*D. Stirling Craig, designer*



*The frontal panel is finished with Lagos mahogany and birch veneers, polished with clear wax. The central medallion is perspex, the St. Andrew's cross being engraved on the reverse side and the raised parts sprayed with blue cellulose. The rubber covering to the foot rest is a standard section manufactured for perambulator handles.*

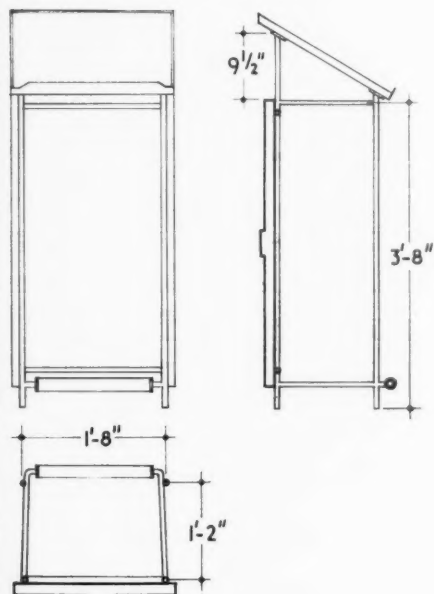


## WORKING DETAIL

## FURNITURE AND FITTINGS: 42

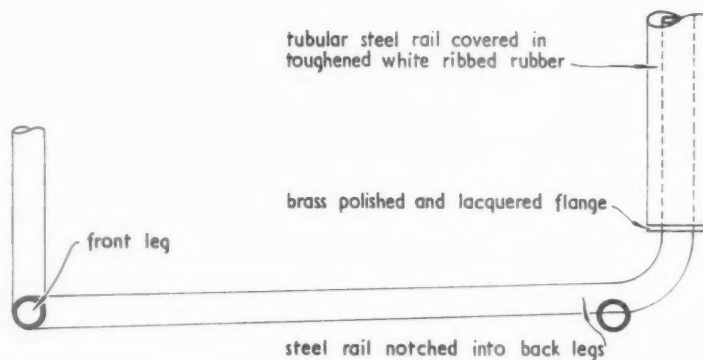
LECTERN: CHURCH HALL AT STEVENAGE NEW TOWN

D. Stirling Craig, designer



KEY PLAN, SECTION AND BACK ELEVATION.

scale 1/2" = 1'-0"



HORIZONTAL SECTION THROUGH LEGS.

countersunk holes for fixing screws at 5 3/8" crs. approx.



ELEVATION OF BRASS EDGE STRIP.

bevelled mahogany edge bead fixed with brass screws and cups

mahogany veneered blockboard book-rest

lacquered brass flange brazed to head and legs at 30° to horizontal and drilled and countersunk for brass screw fixing

lacquered brass flange

tubular steel rail

tubular steel legs carried up thro' flange ring and notched into blockboard, stove-enamelled black

mahogany edging

plywood panel veneered with birch and mahogany

tubular steel rail drilled and countersunk for screw fixing through to front panel and brazed to legs

rubber foot protector

lacquered brass edge strip drilled to receive countersunk fixing screws

tubular steel rail brazed into legs

tubular steel rail covered in toughened white ribbed rubber

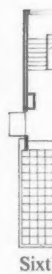
PART BACK ELEVATION. scale 1/4 full size

SECTION.



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and their families, and also furnished single bedrooms for the use of visiting relatives and friends, who can eat in the restaurant and have the use of these rooms for short periods. Although the restaurant is primarily for the use of tenants, who are mostly working women with little time for housework and cooking, it will also be open to the public, who have an entrance on the north side. Other amenities include a laundry, ironing room, locker rooms,

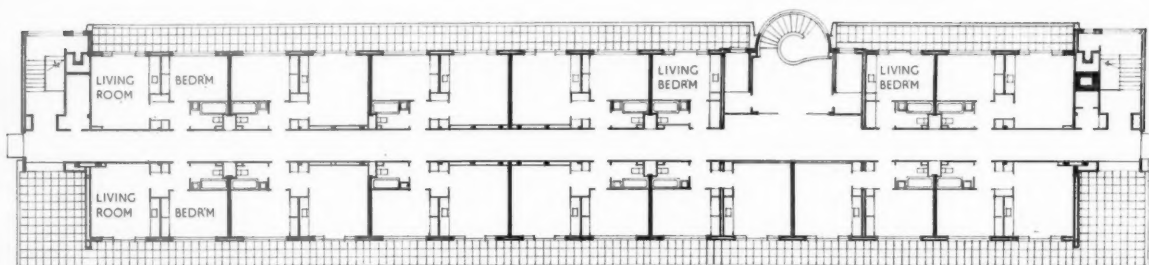
*Right, the north facade of the tall block. In the centre is the public entrance to the restaurant and on the right the three-storey staff and visitors' block.*



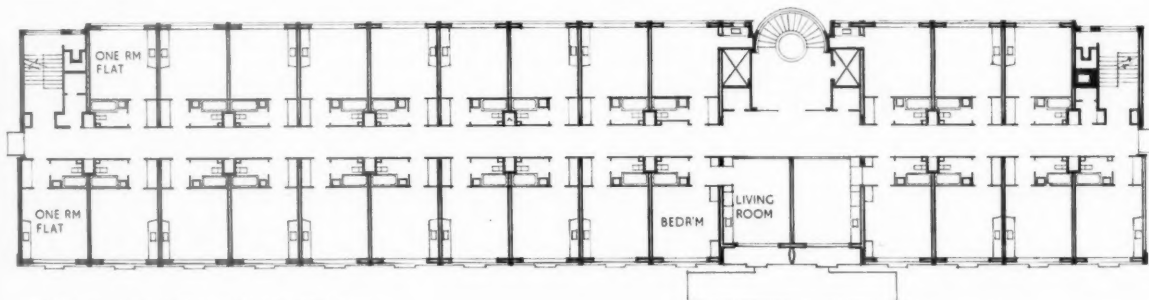
## FLATS

in LOUGHBOROUGH ROAD, LONDON, S.W.9

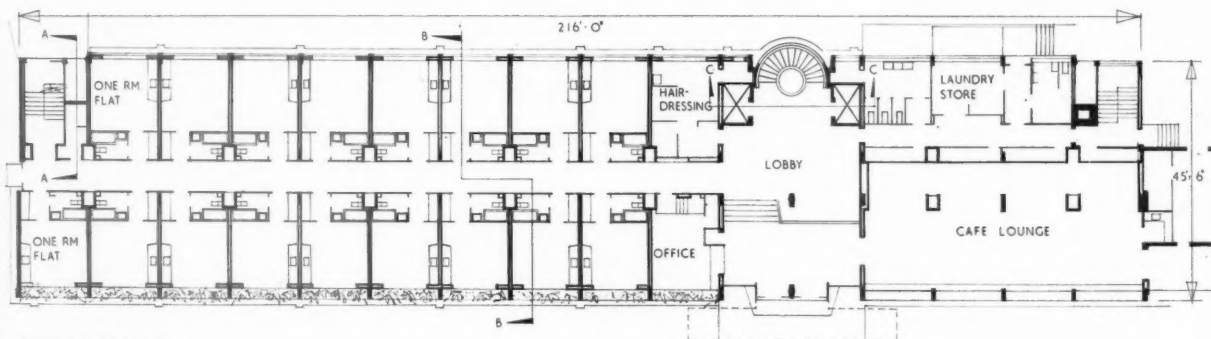
designed by E. ARMSTRONG and F. MACMANUS



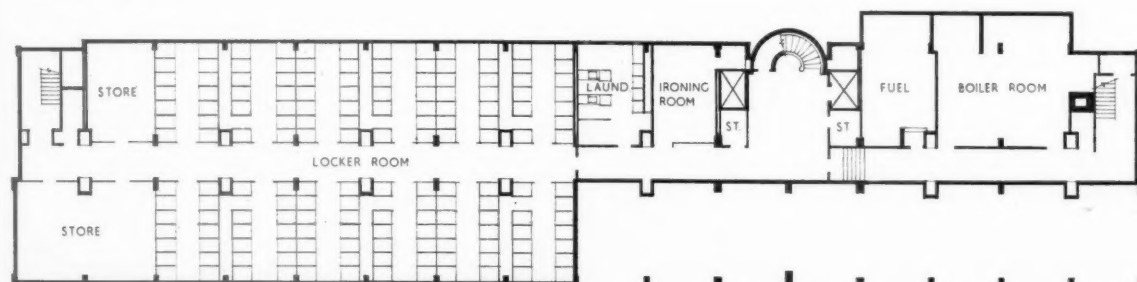
Sixth floor plan



Typical upper floor plan, first to fifth floors



Ground floor plan



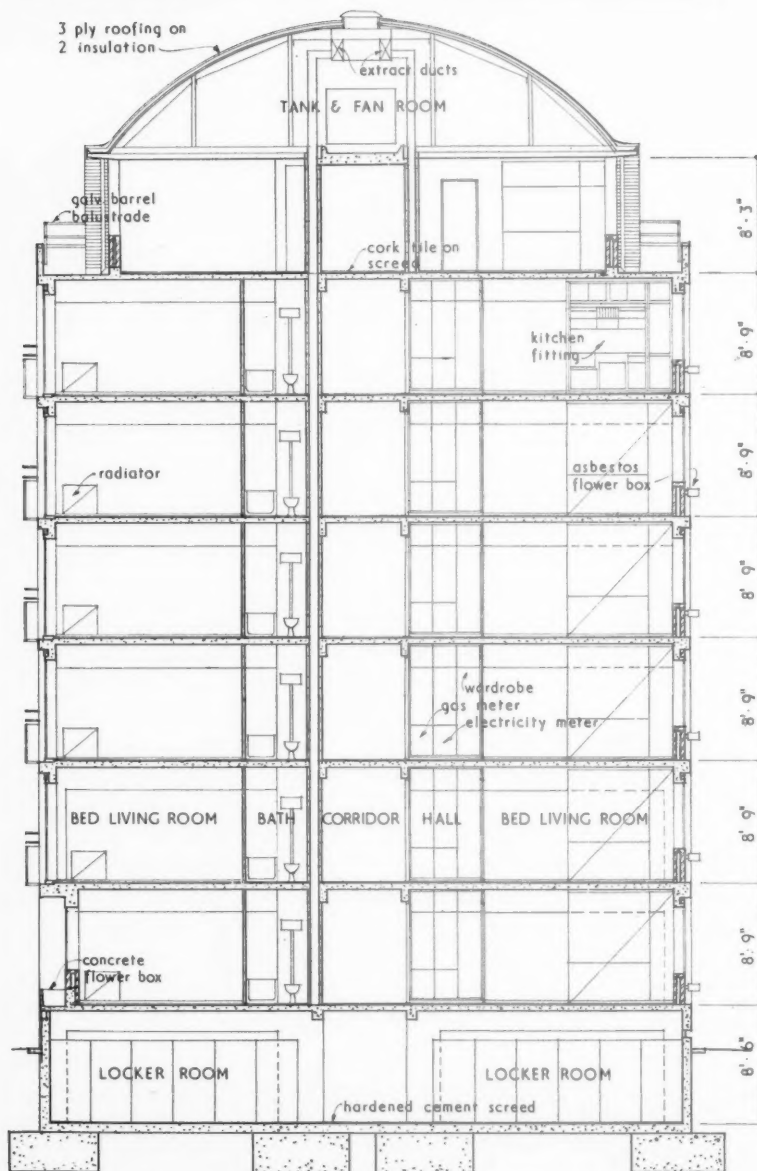
Basement plan [Scale:  $\frac{1}{32}'' = 1' 0''$ ]



## FLATS

in LOUGHBOROUGH ROAD, LONDON, S.W.9  
designed by E. ARMSTRONG and F. MACMANUS

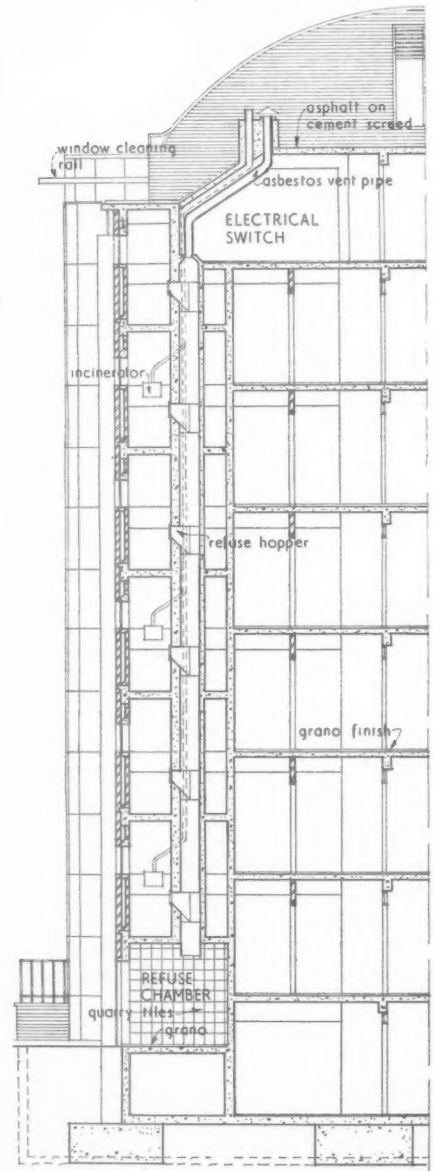
*Below, reinforced concrete canopy over  
main entrance from Loughborough Road.*



Sections A-A and B-B [Scale:  $\frac{1}{8}'' = 1' 0''$ ]

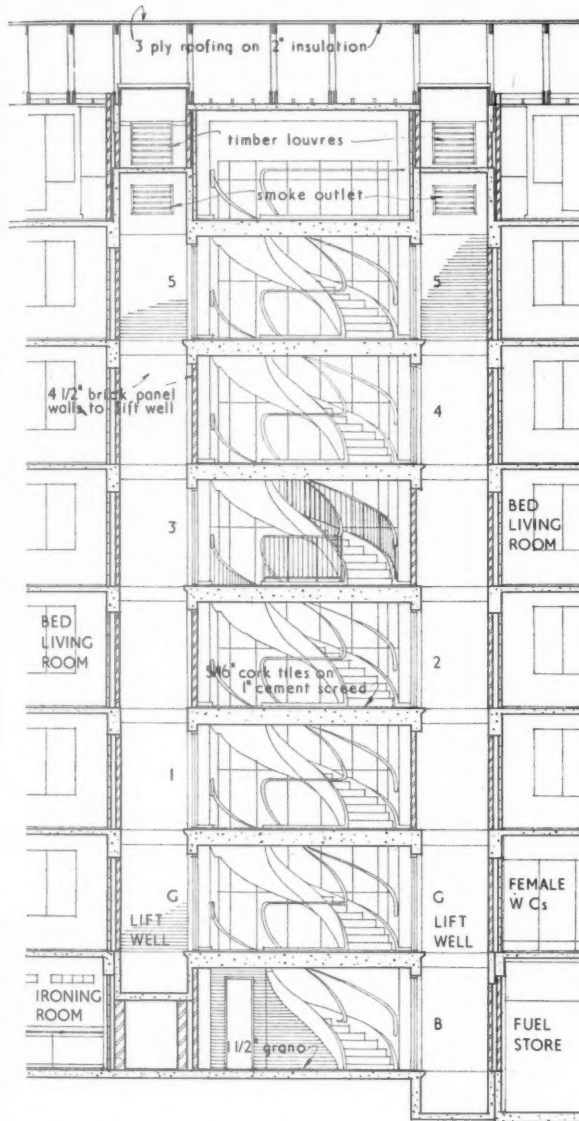
a large lounge and hairdressing saloon.

**CONSTRUCTION.**—The reinforced concrete frame is exposed on the front and rear elevations and the basement has 8 in. r.c. walls and slab. The canopy over the main entrance is also of r.c., floors are of 5-in. thick solid r.c. and the three staircases are cast in situ concrete. There is an expansion joint on each side of the section containing the main circular staircase and these extend from the top of foundations to eaves level. The curved roof houses eleven water tanks of 800 gallons each, an expansion tank for the heating and hot water installations, and the ventilation plant. These are supported on a r.c. slab beam over the central corridor, 11-in. thick below the tanks and with upstands on either side to form a tray. Under the



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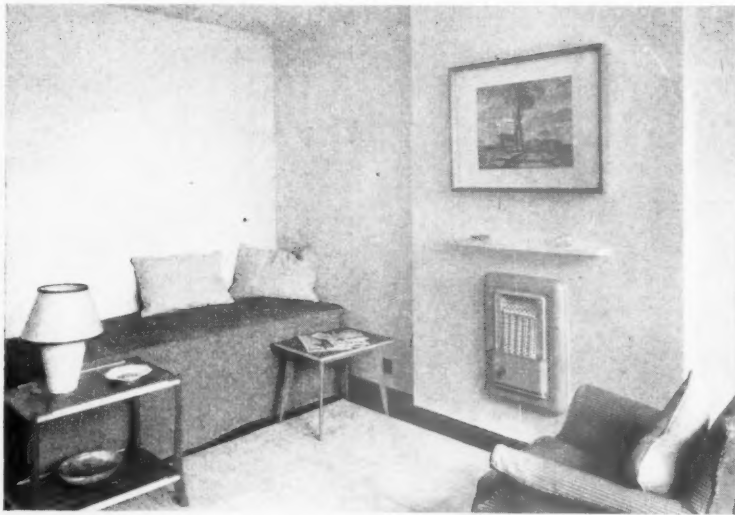
Section C-C [Scale:  $\frac{1}{2}$  = 1' 0"]

*Top right, the main staircase from ground floor level. Above right, looking up the main staircase well. Right, the ground floor lounge in the main block.*



ventilating plant the slab is increased to  $12\frac{3}{4}$  in. thick. The construction of the roof is of timber trusses at 6-ft. centres with edge reinforced wood-wool slabs spanning between. Within the grid of the exposed structural framework the front and rear panel walls are recessed  $4\frac{1}{2}$  in. These walls are formed of straight-jointed brown wire-cut facing bricks externally, a  $3\frac{1}{2}$ -in. cavity and a 3-in. hollow-tile inner skin. The end wall to the flats east of the corridor is faced with  $2\frac{3}{4}$ -in. thick precast concrete slabs, the remainder of the end walls are of 11-in. cavity brickwork. The staff block has walls of  $13\frac{1}{2}$ -in. load-bearing brickwork and floor and roof slabs of solid r.c. The restaurant and kitchen also have load-bearing brick walls and r.c. in situ columns.





## FLATS

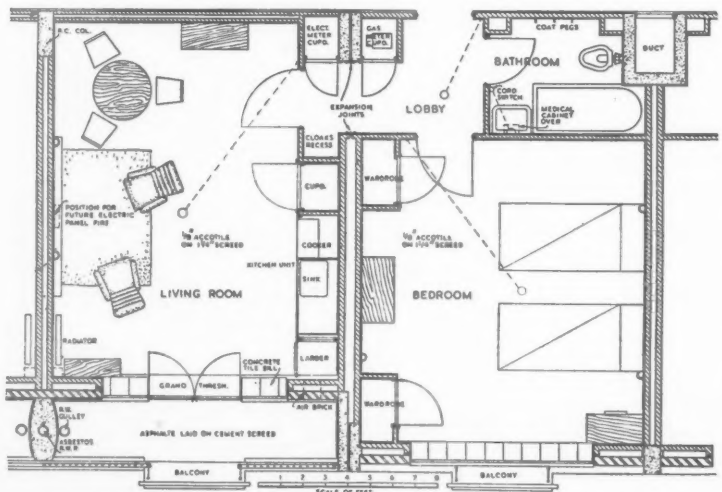
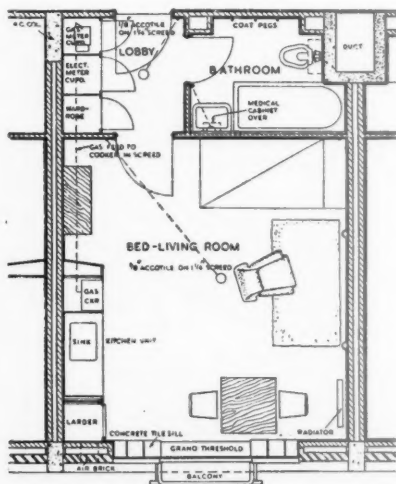
in LOUGHBOROUGH ROAD, LONDON  
S.W.9

designed by E. ARMSTRONG and  
F. MACMANUS

*Above, three photographs of the full size mock-up which was built while the block was under construction. Electric fires have been substituted for the gas fires seen here.*

The covered way has solid r.c. roof slab supported on one side by the kitchen wall and on the other by steel columns. One end is supported on a 10-in. cavity wall in facing bricks on both sides with a pattern formed by 11-in. sq. fireclay flue liners.

**FINISHES.**—The main barrel-shaped roof is finished with three-ply grey-green mineral roofing felt over a  $\frac{1}{2}$ -in. cement screed. As a precaution against fire the roof space was divided into three sections by covering both sides of two roof-trusses with sheets of  $\frac{3}{8}$ -in. thick fire-resisting board. Each section of roof space is lit by a glass dome light. The external walls of sixth floor flats are set back 5 ft. 2 in. from the face of the main concrete frame and consist of an outer skin of buff multi-rustic wire-cut facing bricks, a 2-in. cavity and a fletton brick inner skin. The parapet wall is of 7-in. r.c. capped with a white precast concrete coping. Walls between flats consist of two leaves of 3-in. hollow-tile blocks with a 3-in. cavity between. Between flats and the



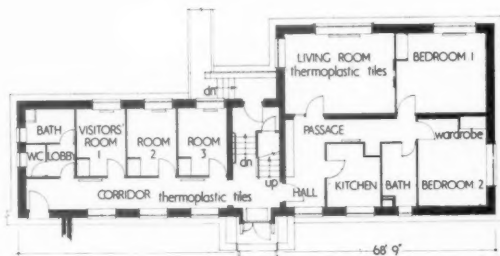
Plans of typical one-room flat and two-room flat over main entrance [Scale:  $\frac{1}{4}$ " = 1' 0"]



central corridor, partitions are of 3-in. solid clinker concrete. The ventilation extract plants are housed in chambers treated to prevent the transmittance of noise to dwellings below by the use of a separate floor of 3-in. thick concrete carried on 1½-in. cork insulation and walls are finished with ¾-in. plaster on expanded metal, kept clear of the 9-in. brick structural walls by means of 1½-in. of corrugated paper nailed to battens. The ceiling insulation consists of 3½-in. dry sand plugging on boards supported between the structural joists by battens. The underside is plaster on expanded metal. All external concrete is treated with two coats of cement paint. The ground floor panels of the flats on the east side are set back behind concrete flower boxes and the fletton external skin is faced with 8½-in. sq. dark blue eggshell glazed tiles with ¼-in. wide white joints. Internally floors are finished with brown plastic tiles in all flats, red marble lino tiles in corridors, entrance hall, office and ironing room and oak parquet in the lounge. From basement to first floor the main staircase has terrazzo treads and risers, while above first floor level the

finish is white granolithic. Escape staircases are paved with granolithic and walls are fair-faced brickwork and concrete-treated with stippled plastic texture, gloss painted. Corridors are plastered, with walls painted dove grey and ceilings off-white. In the

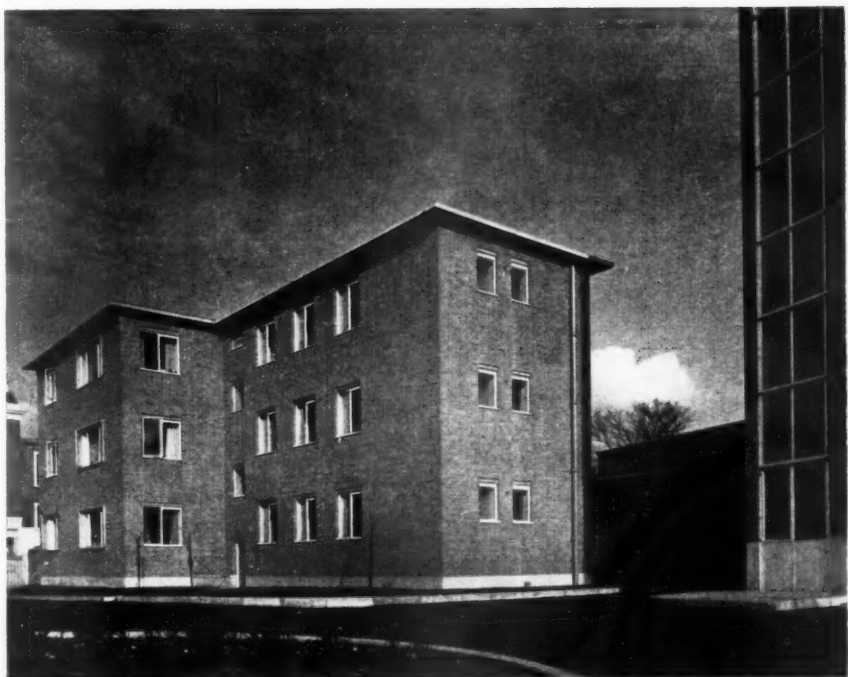
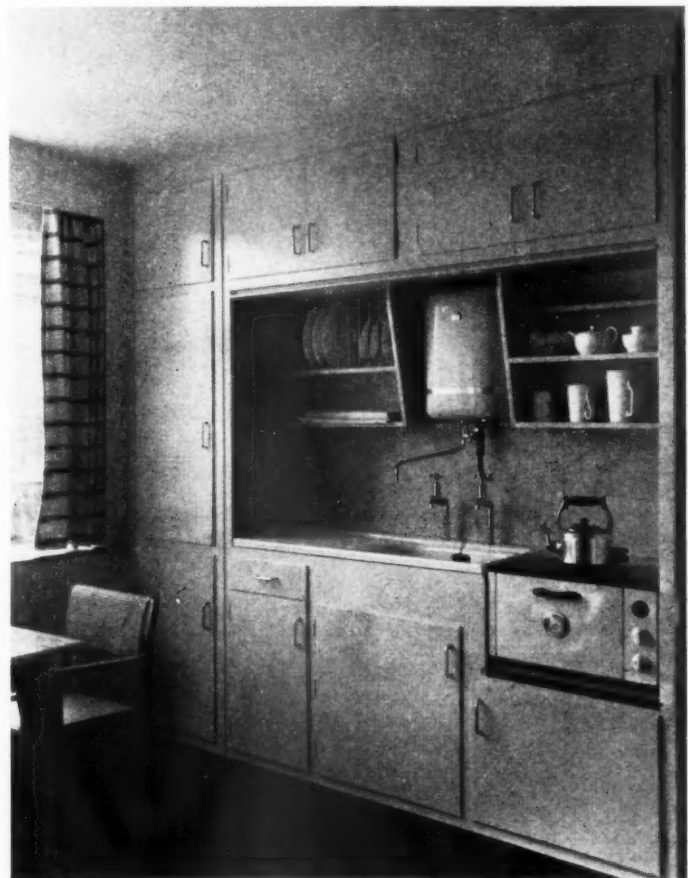
*Below, fitting which forms a part of every flat living room. The working part, which can be entirely closed by a roller-shutter, does not contain an electric water heater in the flats since hot water is supplied from a central boiler house. Bottom, staff block from south west.*



Ground floor plan, staff block, upper floors similar



Plan of restaurant and kitchen block  
Scale: 2¼" = 1' 0"







*Top, entrance hall and waiting space. In the background the door to the lounge. Above, entrance hall and window to enquiry office. Right, part of the restaurant, showing kitchen servery. The north walls of the restaurant and entrance hall are painted dark blue.*

## FLATS

in LOUGHBOROUGH ROAD, LONDON  
S.W.9

designed by E. ARMSTRONG and  
F. MACMANUS

flats, walls, ceilings and woodwork are painted cream, except bathrooms which have duck egg blue walls and ceilings. Doors and skirtings are painted grey. In the entrance hall the north wall is painted with dark blue emulsion paint and the south wall is light grey, the central free-standing column is painted glossy yellow. Panelling on the columns in the lounge and surrounding the lift wells on the ground floor is natural finish polished Douglas fir. In the lounge the back wall is papered red, with a white line motif. The staff block has a ground floor which is floating and is covered with a layer of bitumen felt under a 2-in. screed and the north and west walls of bedrooms are lined with 1-in. woodwool slabs to provide additional insulation. In the flats the partitions are 2-in. hollow tile whilst those to the visitors' rooms are 3-in. solid clinker concrete. The restaurant has a floor finish of gurjun wood blocks with hardwood skirting. Kitchen walls to the top of door height are finished with white glazed tiles; above this height there is vermiculite plaster. The expansion joints have a  $\frac{1}{2}$ -in. gap formed when casting by inserting  $\frac{1}{2}$ -in. soft board as permanent shuttering.

**SERVICES.**—The two lifts both serve to the fifth floor, but stop at alternate floors. The motor rooms are housed within the roof space. Wherever possible services and drainage have been kept out of sight, whilst remaining easily accessible. Bathroom plumbing is run in the U-shaped columns on either side of the central corridors. Services to the cabinet kitchens and rainwater pipes are housed behind a removable panel at the end of the fittings and in the larder units respectively. Central heating and hot-water are supplied from a boilerhouse in the basement of the main block. Boilers burn solid fuel and have automatic stokers. Rents are 15s. a week for one room and 25s. for two rooms. General contractors Humphreys, Ltd. Sub-contractors page 564.



## TECHNICAL SECTION

Plumbing, like electrical systems, has been one part of building technique which the architect in the ordinary course has left very largely to the man on the site. He may decide where the pipes are to run, but the ultimate mysteries of size, fall and junction type are a matter between the plumber and the sanitary inspector. Design was in any case a matter of trial and error for no one knew precisely what caused trap unsealing. Thus current practice had evolved for multi-storey buildings a formidable convolution of pipes in which every single trap was vented; a practice crystallised in most building bye-laws. Long and painstaking investigation by BRS and the LCC over the past four years has revealed what actually happens in plumbing systems and in November, 1952, single stack designs intended for two-storey buildings were outlined in BRS Digests 48 and 49. It is now confirmed that observance of the same principles allows unvented traps to be perfectly safe on five storey (and even higher) installations.

The implication for the architect is that he should now detail the plumbing as precisely as he would the joinery. The implication for the pipe manufacturers is that they can now evolve a range of fittings which will simplify assembly and installation.

### 23 HEATING AND VENTILATION skirting heating

This week's  
special article

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.

*Skirting heating, which is common practice in America, is relatively new to this country. This week James Godfrey, ARIBA, discusses the virtues of this type of heating, and gives a detailed account of a skirting heating installation which he has installed in his own house at Welwyn Garden City.*

Skirting heating, or "baseboard" heating as it is termed in the USA is a system of heating rooms by long low panels heated by hot water or steam and placed at skirting level. The panels virtually take the place of the traditional skirting and consequently are inconspicuous in appearance compared with normal radiators. The heated panels may be of cast iron or steel and may be eminently radiant or convective in their heating effect, according to the

detailed design of the units. The cast-iron units invariably have the waterways designed as an integral part of the unit; the steel panels often serve merely as a cover for a finned heating pipe and in such circumstances are invariably of the convective type. In essence the fully radiant type (generally known as the R type) has a simple profile exposed to the room to minimize convection currents, and for the same reason is sealed at top and bottom when

fixed. By contrast, the convector type (RC) has openings top and bottom to allow air to circulate freely behind the back of the panel. The heat emission of the RC type may be 1½-2 times that of the R type of comparable size for the same flow temperature.

Heating by skirting units has been prominent in America for some time and in that country many of the leading heating appliance manufacturers now appear to make one or other of the established types of heater. By contrast there appear to have been only a few installations in this country, mostly of an experimental nature. They include, installations in a few local authority houses at Ipswich, an installation in a private house at Highgate, N.6, for Walter Segal and an installation in the writer's house at Welwyn Garden City which will be described in detail later. A school at York has also been equipped with skirting heaters of the RC type.

## PERFORMANCE OF SKIRTING HEATERS

### GENERAL NOTES

The advantages claimed for skirting heater systems compared with more conventional methods of heating are the commendably low temperature gradients, the comfortably warm conditions at floor level, the uniformly constant temperatures obtainable even in the face of changing outdoor temperatures and the absence of draughts. Brief reference to some tests carried out in the USA and in this country suggest that these claims are not unreasonable. For instance, results of tests on a skirting heating installation in an experimental house at the Engineering Experiment Station, University of Illinois, gave (for R type units) average temperature differences measured at points just above the floor and just below the ceiling of the order of 2 deg. F; by substituting RC type units the temperature differences were approximately 4.5 degrees F. By comparison, temperature differences of about 5½ deg. F. were measured under the same conditions for an installation of recessed radiators. Similar results were obtained on further tests in the USA on five houses of differing sizes and layout and have also been confirmed by measurements made by officers of the Building Research Station at Ipswich. In the last mentioned example, temperature differences of the order of 1.3 deg. F. were logged for the radiant type (R) skirting units and differences of about 4.2 deg. F. for convection type (RC) units. Fig. 1, which is reproduced from the account of the tests, at Illinois University, indicates graphically the range of temperature differences obtained in three bedrooms with the three different forms of heating. Data for the floor below showed similar characteristics except that the floor to ceiling temperature difference was 1.2 deg. greater.

The uniform temperatures obtainable with skirting heating installations and the absence from draughts is generally attributed to the extended heated surface. In this connection there is some advantage in the R type compared with RC type as the lower heat emission of the former calls for a longer run of skirting. MacLeod and Eve (USA) in the tests on five houses mentioned above measured average air velocities of between 17-24 feet per min. at 3 inches above floor level in the centre of the room and velocities not much higher, immediately above the skirting heaters. These velocities are well below the air speeds generally considered to give rise to complaints of draughts (i.e. 60 ft. per min.).

With regard to running costs, reports of fuel consumption show that skirting installations are no more expensive to run than comparable installations employing

conventional radiators. In the houses at Ipswich for instance, those with ordinary radiators had a total solid fuel consumption averaging 2.3-3.0 cwt. per week compared with 2.2-2.5 cwt. per week for the houses equipped with skirting heaters.

The actual shape of the layout of a skirting heating installation seems to have little effect on the efficiency of the system although a simple house plan clearly makes for economy in heat by reducing the amount of outside walling.

Skirting heater installations can be designed equally effectively for either gravity or pump driven circuits. The main advantages of the last mentioned are that there is a quicker response from the system to changes in demand and the pipe sizes can be reduced. Pump driven circuits are the rule in America.

### GENERAL DESCRIPTION OF HOUSE

The site is about 370 ft. above sea level and is sheltered from the north by a wood and has a slight continuous fall to the south and east. The exposure may be described as normal although one of the corners of the site is rather exposed to the prevailing south-west winds which due to the disposition of trees and surrounding property tend to be concentrated on this corner of the site. The soil is a shrinkable clay overlying a sand layer at a depth of about 8 ft.

The house has a total floor area of 1,500 sq. ft. and the ground and first floors are roughly of equal area. The plan of the house has been made as compact as possible to help reduce heat losses and to

simplify the heating layout. The main rooms face S.S.E. with the exception of the kitchen which faces N.E. and the study which faces S.W. The ground floor plan is of the open type except for the kitchen and study which are completely enclosed. Advantage has been taken of the site contours to increase the height of the living room to 9 ft. 3 in., other rooms on the ground floor are 8 ft. 0 in. high and on the first floor 7 ft. 9 in.

Special points of interest are the large window which is double glazed to minimise heat loss and the positioning of the two chimney stacks in the centre of the plan for the same reason. The boiler flue has been lined with a 6 in. diameter glazed earthenware drainpipe as a precaution against condensation. To date no condensation has been seen, possibly because the chimney is in a central position and does not cool so readily, and possibly because the fuel is stored under cover.

The bedrooms are permanently vented to the roof space by openings in the ceilings screened by fine mesh expanded metal.

The foundations are 12 in. diameter short bore piles going down to a depth of about 8 ft. and supporting a lightly reinforced concrete ground beam. This form of foundation was chosen because of the shrinkable clay soil and the proximity of young trees, and is common to a number of houses in the immediate vicinity.

The main walls generally are of 11 in. cavity construction with 4½ in. clay brick outer leaf and 4½ in. clinker concrete inner leaf. The inner leaf of the wall on the S.S.E. elevation up to first floor level has

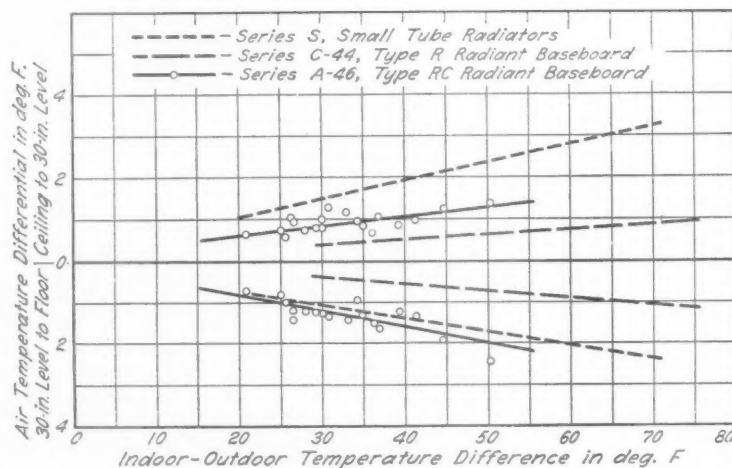
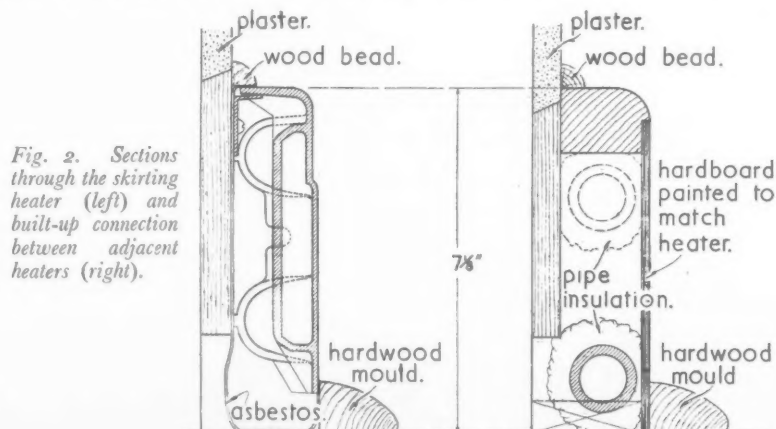
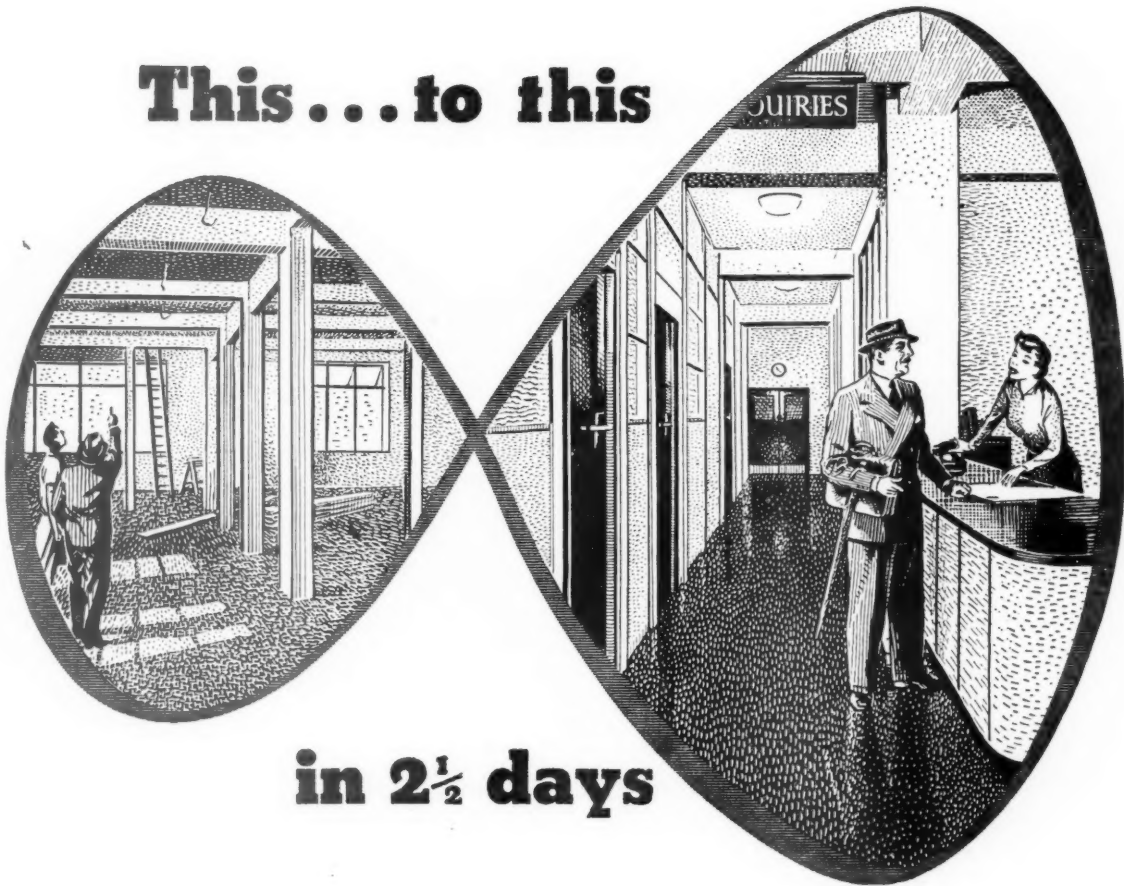


Fig. 1. Graph showing second storey air temperature differentials recorded in the I.B.R. Research Home of the University of Illinois.



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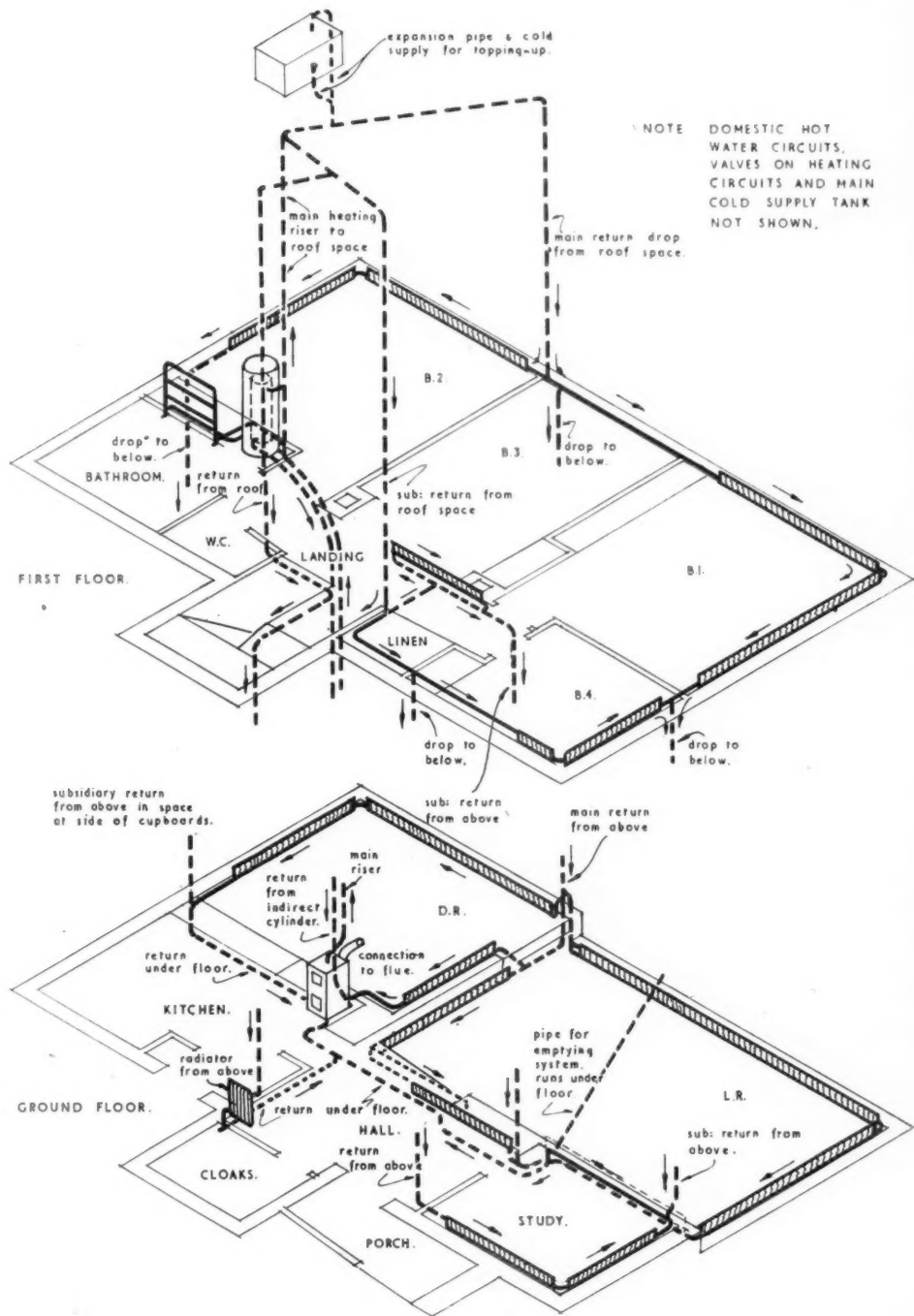


Fig. 3. Isometric sketch showing the layout of the installation.

been increased to 6 in. to offset the large window openings. Internal partitions are mainly brick on the ground floor and clinker concrete on the first floor.

The ground floor consists of 4 in. oversite concrete on 6 in. hardcore and is overlaid with a coal tar pitch damp-resisting membrane and 2 in.-3 in. cement-sand screed to receive the floor finishes of thermo-plastic tiles and wood blocks respectively.

The first floor is of normal wood joist construction with 1 in. t. and g. boarding and plasterboard ceiling.

Single-lap concrete interlocking tiles to B.S. 550 on 1½ in. × 1 in. battens on roofing felt supported by TDA design timber trusses

comprise the roof. The whole of the first floor ceiling is insulated by 4 in. nominal thickness glass wool loose-fill laid between the ceiling joists.

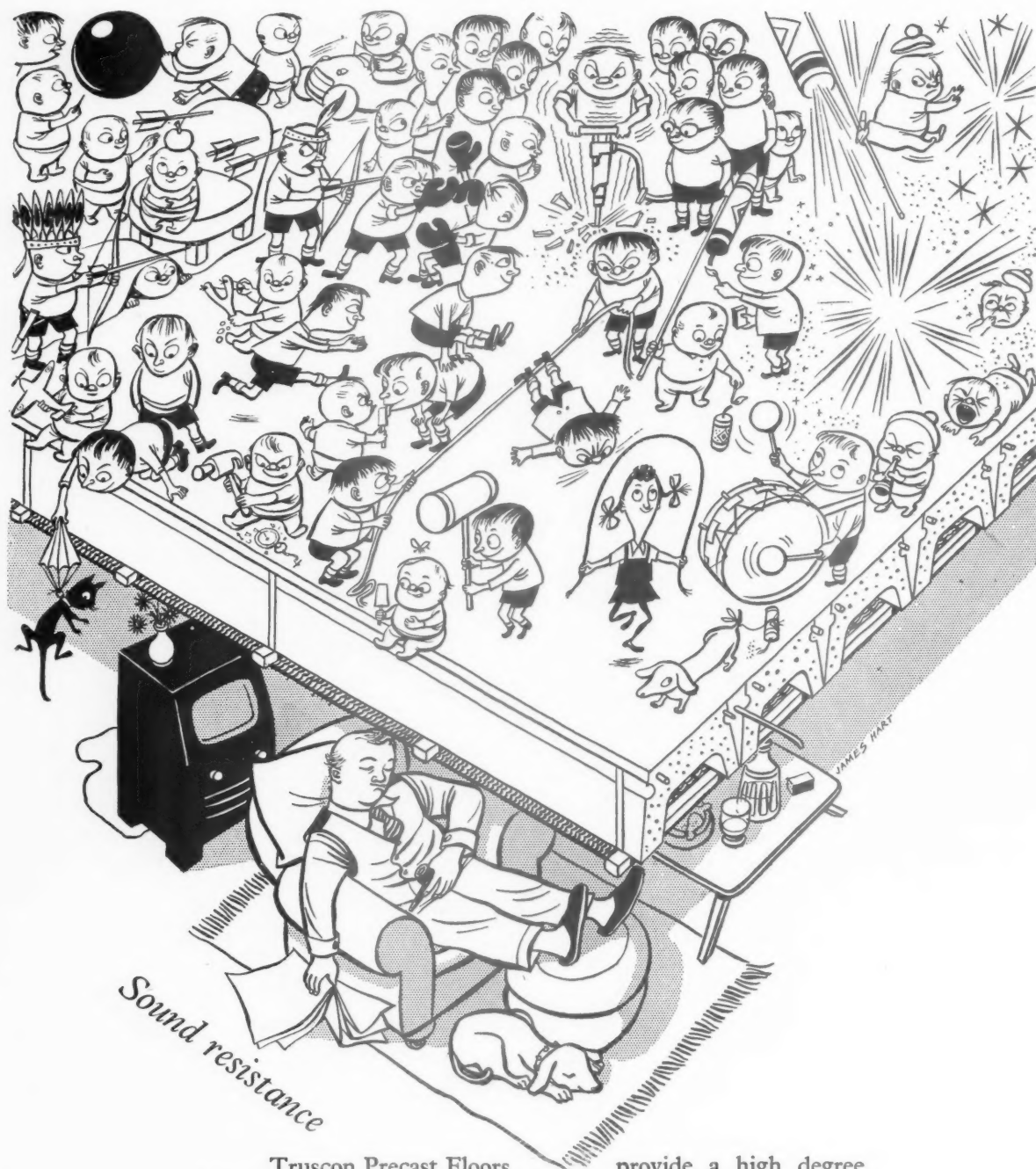
The Table 1 on page 561 gives an indication of the thermal insulation values of the main parts of the structure and the total heat loss. The values in column 1 are computed from published laboratory figures, but are probably near enough for all practical purposes.

#### THE HEATING INSTALLATION LAYOUT

The system is designed as a gravity system and to save on piping the panels are connected in series. Connecting the heaters in

parallel would mean either raising the panels to allow the pipes serving them to run underneath or forming ducts in the floor.

As shown in Fig. 3 the main flow pipe from the boiler in the kitchen runs direct to the roof space, whence it travels just above the ceiling to three return drops. The main return drop serves the two main bedrooms, the living room and dining room; the subsidiary drops, the landing, bedroom 4 and the study, also the ground floor cloaks (by wall radiator only). The hall is served by the return pipe from the study and living room. The bathroom is directly over the kitchen and is heated by a towel rail. The kitchen is heated from waste heat from the



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boiler, which is covered by a vitreous enamel casing, but is unlagged.

The return pipes reach the boiler by ducts in the kitchen and hall floors, elsewhere the pipes serving the heaters are easily accessible. The main return drop in the living room is normally concealed by a curtain hung from the ceiling between the dining room and living room.

In the living room an open fire is provided to form a focal point and for topping up in severe cold spells.

The boiler is a manually fired No. 6 New Carlton boiler with water cooled grate (capacity rated at 59,000 B.T.U.'s) and is fitted with a Crane Satchwell Auto Regulator which controls the primary air supply at the back of the boiler. This regulator gives a clear indication of boiler flow temperature and is simple and positive in action.

#### HOT WATER SUPPLY

Hot water is provided on the indirect system from the same boiler to a 40-gallon cylinder in a cupboard in the bathroom. A 3-kW. electric immersion heater is provided for summer water heating. The cylinder is provided with a standard type sectional insulating jacket.

The skirting heaters are of the radiant type in cast iron and are formed in sections 2 ft. long being site assembled into the desired lengths by means of push nipples and tie bolts. Special end enclosures are provided to conceal the piping connections at each end of a panel. The end enclosures are bolted directly to the ends of each length of units and have removable doors providing access to the vent valve, union elbow and supply valve. The net height of each unit is 6 in. Corner cover plates are provided where each section returns round a corner (see Fig. 5). No convector heaters were used in this installation, but a wall radiator was installed in the cloakroom under the stairs.

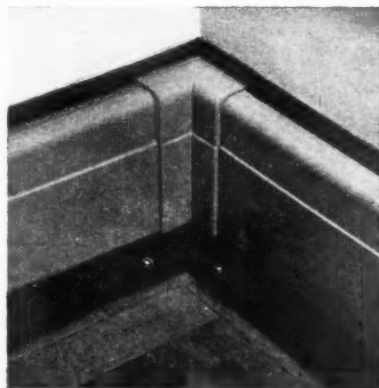
The heaters are hung on small metal brackets fixed to wood grounds flush with the plaster, and are also retained in position by long screws driven at an angle into the grounds. During fixing a strip of asbestos paper is placed at the back of each panel (before the hangers are fixed) for the full height of the unit and is lapped over the top flange where it is held in position by a wood mould. The main duty of this asbestos paper is to provide an air seal at the top of the heater to minimize the possibility of dirt streaks from warm air leaking up the back of the panel (see Fig. 2).

For the present installation sapele is used for the base moulding which is made rather larger than is customary to serve as a skirting where there is no heater. Sapele is rather subject to distortion and a better choice would have been teak or ordinary mahogany. One or two of the base moulds actually had to be replaced after a while because of distortion. To allow for movement of the wood block floor the base moulds in the dining room and living room are fixed with brass screws and washers to the wood blocks, the hole being made larger than the screws. In the hall and study the base moulds are fixed by Bostik adhesive to the thermo-plastic tiles. Where the heaters do not extend the full length of the wall the intervening space is filled with a hardboard and wood profile covering the flow pipes.

Consideration was given to the possibility of providing additional insulation behind the heaters, but at the time this was not found practicable. In the low outdoor winter temperatures experienced in the USA the edge losses would render such provision essential, but in Britain it is questionable whether the extra expense is justified. In the present case the total thermal resistance of the wall immediately behind the heater,



Fig. 4 (above). Main return pipe serving the dining room and living room circuits. Fig. 5 (below left). Cover plate on angle. Fig. 6 (below right). Valve for controlling radiator.

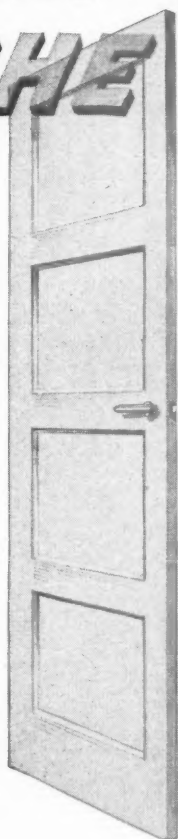




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TABLE I—Giving Analysis of Heat Loss from House

## GROUND FLOOR

	Thermal transmittance	Living room		Dining room		Kitchen		Hall		Study		Cloaks						Total heat loss
	B.T.U./ft. hr./°F.	Area sq. ft.	Heat loss	Area sq. ft.	Heat loss	Area sq. ft.	Heat loss	Area sq. ft.	Heat loss	Area sq. ft.	Heat loss	Area sq. ft.	Heat loss	Area sq. ft.	Heat loss	Area sq. ft.	Heat loss	B.T.U./hr./°F.
External walls ..	0.25 0.21	111 110	28 23	86 52	21 11	136 —	34 —	32 —	8 —	127 —	32 —	106 —	26 —					
Glass in windows ..	1.00	15	15	54	54	29	29	—	—	21	21	6	6					
Double glazing ..	0.5	98	49	—	—	—	—	—	—	—	—	—	—					
Bay, top and bottom	0.12	24	3	—	—	—	—	—	—	—	—	—	—					
Ground floor ..	0.20 0.15	— 283	— 42	— 143	— 21	136 —	27 —	94 —	19 —	85 —	17 —	36 —	7 —					
External doors ..	0.5	—	—	—	—	19	9	20	10	—	—	—	—					
Ventilation, c. ft./hr.	2.5 air changes per hr., 0.018 B.T.U./c. ft./°F.	6,166	111	2,740	49	2,700	40	1,800	32	1,520	27	472	8					
Heat loss total B.T.U./hr./F.		—	271	—	156	—	139	—	69	—	97	—	47					779

## FIRST FLOOR

		Bedroom 1		Bedroom 2		Bedroom 3		Bedroom 4		W.C.		Linen		Bathroom		Landing		
External walls ..	0.25	170	42	232	58	42	10	131	33	31	8	31	8	110	27	129	32	
Glass in windows ..	1.00	39	39	34	34	28	28	16	16	6	6	—	—	11	11	21	21	
Ceiling and roof ..	0.08	178	14	169	14	138	11	80	6	16	1	14	1	67	5	137	11	
Ventilation, c. ft./hr.	2.5 air changes per hr., 0.018 B.T.U./c. ft./°F.	3,412	61	2,712	49	2,437	44	1,317	24	290	5	271	5	1,007	18	1,802	32	
Heat loss total, B.T.U./hr./F.		—	156	—	155	—	93	—	79	—	20	—	14	—	61	—	96	674
																		1,453

Boiler rating, 59,000 B.T.U.s per hour.

allowing for the sealed air cavity, gives a "U" value of approximately 0.16. There is also the point that stray heat from the skirting unit helps to warm the portion of the inner leaf immediately above it which then becomes a source of low temperature radiant heat, and also helps to keep the cavity dry.

The temperatures obtained during a typical cold spell are given in Table II. The open fire was in use during the time of the evening readings. These temperatures were obtained during the first winter shortly after completion of the building when it was still in process of drying out. Some recent additional figures, including relative humidity, may be of interest (see Table III).

## FUEL CONSUMPTION

The fuel consumption for the first winter averaged about 3.2 cwt. per week over a heating season of twenty-seven weeks. The fuel used was coke and anthracite mixed.

During the last winter the average fuel consumption has averaged about 2.9 cwt. for a similar period of twenty-five weeks. The drop may be attributed partly to a milder winter, to increased skill in firing the boiler and in all probability, a drier house.

The general impression was that the system gave a very satisfactory performance. There was no feeling of stuffiness even when the temperatures were above 67 deg. F. There was a noticeable absence of draughts and no complaints of cold feet. The system was flexible in operation and responded quite well to manual control. An improvement would be to instal a circulating pump as the flow and return pipe sizes could then

TABLE II—Temperature Distribution During a Cold Spell

	8.00 hr.	14.00 hr.	20.00 hr.	Maximum	Minimum
	Deg. F.	Deg. F.	Deg. F.	Deg. F.	Deg. F.
L.R. 1 ..	52	55	59	60	52
L.R. 2 ..	57	63	66	67	57
Hall ..	55	57	59	61	55
Study ..	51	52	54	55	51
Kitchen ..	56	66	69	76	55
Dining room ..	53	56	60	61	53
B. 1 ..	50	47	49	53	48
B. 2 ..	52	51	54	56	54
B. 3 ..	61	60	62	63	61
B. 4 ..	50	53	52	56	50
Landing ..	58	58	59	61	58
Mean temp. ..	54	55.5	58.6	60.8	54

Boiler water temperature, 160 deg. F.

TABLE III—Temperature and Relative Humidity.

Date ..	February 19, 1954								February 20, 1954							
	8.00 a.m.				9.00 a.m.				8.00 a.m.				9.00 p.m.			
Readings	Relative humidity, per cent.	Wet, °F.	Dry, °F.	R.H., per cent.	Wet, °F.	Dry, °F.	R.H., per cent.	Wet, °F.	Dry, °F.	R.H., per cent.	Wet, °F.	Dry, °F.	R.H., per cent.	Wet, °F.	Dry, °F.	R.H., per cent.
Outdoors (under porch) ..	96	42.5	43	92	38	39	84	37	39	92	32	33				
Living room ..	48	53	64	42	54	67	42	51	63	41	53	66				
Kitchen ..	49	55	66	46	52	63	43	52.5	64.5	41	53	66				
Bathroom ..	58	57	66	49	55	66	44	53	65	42	51	63				
Bedroom 1 ..	55	53	62	48	52	62.5	51	53	63	41	52	64				

Note.—Living room open fire on for 9.00 p.m. readings.

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be reduced. It was found in practice that little was to be gained by shutting off individual heaters in unoccupied rooms during very cold weather.

The decorations have not long been completed but it does not appear that streaking of the walls is likely to be much of a problem. The only evidence of dirt streaks so far is above a short length of heater in the living room where the seal at the back of the top bead is defective as a result of slight displacement of the bead. According to the observations on the tests carried out at Illinois, after a complete heating season of nine months no dirt patterns were discernible on the walls above the radiant R type heaters, and slight marking of the walls in some rooms where RC type heaters were installed. With the conventional type recess radiators however, the characteristic dirt patterns were apparent and curtains above radiators required cleaning. The impression was given that with the radiant type skirting heaters little or no dirt streaking of walls should occur if the design water temperature is 200 deg. F. or less.

## REFERENCES.

"Heating a Basementless House with Radiant Baseboard," by R. H. Weigel and W. S. Harris. Heating, Piping and Air Conditioning (USA), Nov., 1948.

"Radiant Baseboard Heating and Effects of Reduced Thermostat Setting and Open Bedroom Windows at Night," by R. H. Weigel and W. S. Harris. University of Illinois Engineering Experiment Station, Bulletin Series No. 391.

"Baseboard Radiation Performance in Occupied Dwellings," by G. S. MacLeod and C. E. Eyes. Heating, Piping and Air Conditioning (USA), 1950.

"House-Heating Trials on Skirting-Heating Installations," by A. W. Pratt and I. W. L. Hendry. The Heating and Ventilating Engineer, Nov., 1951.

"Baseboard Heating," by A. W. Pratt, to be published later.

## INFORMATION CENTRE

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### 10.112 design: building types INDUSTRIAL DESIGN

*Form in Engineering Design.* J. Beresford-Evans. (Oxford, Clarendon Press and Geoffrey Cumberlege, 1954. 10s. 6d.)

Intended for the engineering draughtsman, this is an excellent little book combining a good approach to design with a down-to-earth view of its practical aspects. Architects who turn their hand to industrial design should not be above learning from a publication based on experience and good sense and very well written and illustrated.

### 11.36 materials: general BUILDING BOARDS FIRE RISK

*Fire Tests on Building Boards.* National Building Studies Special Report, No. 22. (HM Stationery Office, 1954. 1s. 3d.)

Tests to show fire risks with various build-

ing boards and various forms of paint and fire retardant finishes. Results help in a realistic interpretation of BS 476, "Surface Spread of Flame Tests." (See also articles in AJ for March 25, 1954.)

### 13.116 materials: timber NEW HARDWOODS

*The "New" Timbers.* B. Alwyn Jay. (Wood, Mar., 1954.)

The introduction of a multitude of new timbers during the post-war period led to a period of confusion for the user, who found it difficult to choose from a variety of unfamiliar types with weird names. Tests by FPRL and a fair period of experience have helped to sort the sheep from the goats. Although softwood is no longer rationed, a number of these newer woods will continue to be useful. The article by Mr. Jay describes some of these most likely to be used. He divides them into five classes from light weight at less than 36 lb. per cu. ft. to heavy: special purpose at over 50 lb. per cu. ft. Brief notes on properties and uses are given and a most useful data sheet lists some 38 types with information on origin, sizes, weight, description, durability, strength, workability, and usage.

### 13.117 materials: timber ADHESIVES

*The Durability of Adhesives for Wood.* R. A. G. Knight. (Timber Technology, Mar., 1954.)

Describes testing procedures at FPRL, including methods of accelerated testing. General findings on durability of the various types of timber adhesives under varying degrees of exposure. For severe exposure on phenolic and resorcinol glues give long-term satisfaction.

### 15.117 materials: applied finishes, treatments PAINTING METALS

*Painting Metals in Buildings.* BRS Digest No. 64. (HM Stationery Office, Mar., 1954. 3d.)

Based on BS Code of Practice, this Digest deals more particularly with the preparation of surfaces before painting either in factory or on the site. It covers both ferrous and non-ferrous metals. Although it contains useful information, it is in some ways so comprehensive that it becomes difficult for the architect to apply the knowledge in practice. It would have been very helpful if it could have included suggestions for architects' specifications for some of the everyday cases of painting of metals.

### 17.101 construction: general WALL TILES

*Metal Wall Tiles.* B.S. 1243:1954. (British Standards Institution. 2s. 0d.)

Revision of earlier Standard this now includes three patterns of tile, the well known twisted strip one, the 'butterfly' wire type and a newer type of stouter wire known as the double-triangle type. All are made in either 6 in. or 8 in. overall length. Appendices give details of testing for adequacy of zinc coating of galvanized tiles.

### 19.176 construction: details ROAD JOINTS

*The Temporary Sealing of Joints in Concrete Roads on Housing Estates.* P. L. Critchell and R. S. Millard. (Roads and Road Construction, Dec., 1953.)

On housing estate roads the most severe traffic occurs while houses are being constructed and during this period grit and stones often get worked into the expansion joints and result in considerable damage when the road sections expand. This article describes investigation by the Road Research Laboratory into using temporary joint seals during the time when roads are especially liable to such damage. It is of importance to architects responsible for housing estate work and is also of relevance in cases such as concrete access roads to schools and other buildings where similar conditions may occur during the building construction period.

### 25.106 water supply and sanitation SEPTIC TANKS

*Memorandum on Principles of Design for Small Domestic Sewage Treatment Works.* MOHLG. (HMSO. 1953. 9d.)

Methods of, and plant design for, the treatment of sewage from small groups of houses in isolated locations. Maximum size. 300 persons. Special conditions which affect design. Siting of the plant. Useful details of septic tank designs. Notes on secondary treatment by irrigation. Illustrated.

## INFORMATION CENTRE INDEX FOR 1953

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## Buildings Illustrated

Flats at Iveagh House, Loughborough Road, Brixton, London, S.W.9, for the Guinness Trust. (Pages 548-556.) Architects: Edward Armstrong and Frederick MacManus, F.F.R.I.B.A., Assistant Architect: E. Howard Sadler, A.R.I.B.A., A.M.I.STRUCT.E. Assistants-in-charge: Allan Murray, A.R.A.I.A., Colin S. Burgess. Consulting Structural Engineers: Bylander and Waddell. Quantity Surveyor: W. C. Inman & Partners. Clerk of Works: P. L. Jewell. General Contractors: Humphreys Ltd. Sub-contractors: airbricks to separate kitchens, Stuart's Granolithic Co. Ltd.; aluminium cover to internal expansion joints, Metal Mouldings Ltd.; asbestos cowl, Celactite & British Uralite Ltd.; ash hoist, George Johnson Ltd.; booster pump, Broadwall Engineering Co. Ltd.; bricks, R. Y. Ames; boundary fencing, Boulton & Paul Ltd.; cast iron duct covers, Broads Manufacturing Co. Ltd.; curtain track, John Garlick (1910) Ltd.; cycle blocks, Sielcon (Industrial Floors) Ltd.; dome roof lights, Pilkington Bros. Ltd.; doors, Humphreys Ltd.; door mats, United London Workshops for the Blind (Sales) Ltd.; electric incinerators, Saniguard Appliances Ltd.; electrical installation, Berkeley Electrical Engineering Co. Ltd.; external notice boards, framing, Light Steelwork (1925) Ltd.; external notice boards, Venesta Ltd.; external tiling, Carter & Co. (London) Ltd.; extract fan for drying cabinets, Keith Blackman Ltd.; flooring, Armstrong Cork Co. Ltd., (Accotile), Korkoid Decorative Floors Ltd., (Linotile), Broads Manufacturing Co. Ltd. (Windsor), and Horsley Smith & Co. (Hayes) Ltd. (wood block); garden work, grass seed, trees and shrubs, Garden Landscapes (London) Ltd.; gas installation, South Eastern Gas Board; hairdressing installation and

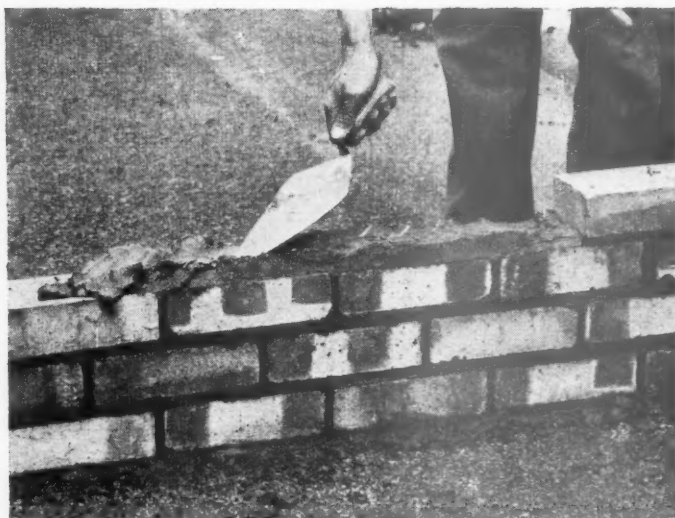
equipment, Henry Serventi Ltd.; heating, hot water and ventilation, G. N. Haden & Sons Ltd.; reconstructed stone, concrete facing blocks, Stuart's Granolithic Co. Ltd.; ironing room fittings, E. & H. Grace Ltd.; ironmongery, door furniture, Nettlefold & Moser Ltd.; ironwork (main stairs, balustrade, site gates, railings and fuel hoppers) Light Steelwork (1925) Ltd.; ironwork, escape stairs balustrade, balcony, parapet and external stair balustrades, S. W. Farmer & Son Ltd.; kitchen fitting units and hall cupboards, Built-In Fixtures Ltd.; lettering, The Super-sine Co. Ltd., Signcrafts Ltd., Buckleys (London) Ltd., A. & G. Edgington (Leicester) Ltd.; lifts, Hammond & Champness Ltd.; metal windows and doors, The Crittall Manufacturing Co. Ltd.; refuse hoppers, Haywards Ltd.; roof insulation, Fibreglass Ltd.; roofing, Permanite Ltd.; safe, Griffiths Safe Co. Ltd.; sanitary fittings, Thomas O'Brien & Co. Ltd.; suspended ceilings, W. H. Colt (London) Ltd.; terrazzo, Malacarp Terrazzo Co. Ltd.; timber handrail to circular stair, F. J. Lewis Ltd., wallpaper, Arthur Sanderson & Sons Ltd.; electric fires, General Electric Co. Ltd.; electric washing machines, Hoover Ltd.; flue blocks, The Marley Tile Co. Ltd. (suppliers); fluted asbestos, Turners Asbestos Cement Co. Ltd.; gas drying cabinets, supplied by South East Gas Board; gas cookers (staff), Sidney Flavel & Co. Ltd., gas coppers (staff and laundry), W. H. Dean & Son Ltd.; glass, Aygee Ltd.; internal and external decorations, A. J. Lucas & Son; light fittings, supplied by Berkeley Electrical Engineering Co. Ltd.; paint, Imperial Chemical Industries Ltd.; plastering, J. H. Jenner & Co. Ltd.; plumbing, Ellis (Kensington) Ltd.; precast concrete (measured), Glostone Ltd.; special light fittings, S.L.R. Electric Ltd.; television and wireless installation, British Relay Wireless Ltd.; wall paint, Duresco Products Ltd., and Fleetwood Paints Ltd.

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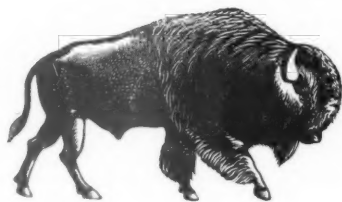
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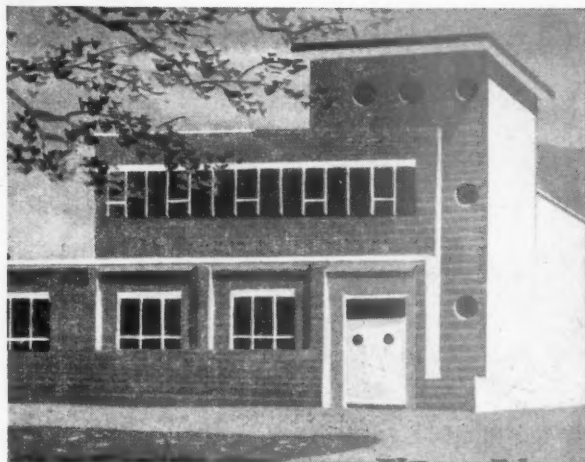
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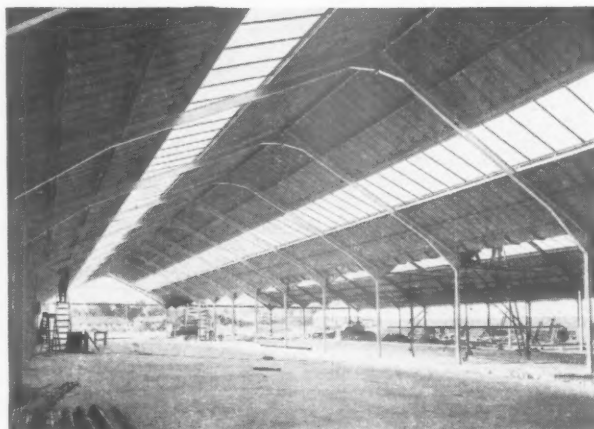
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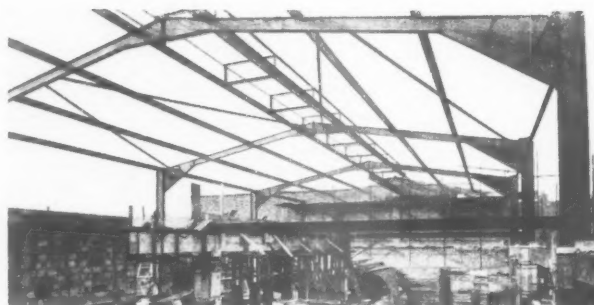
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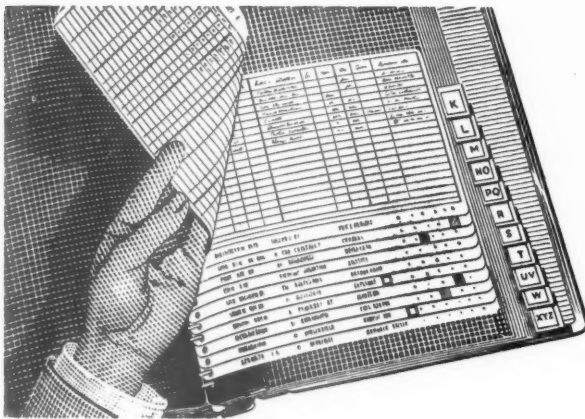
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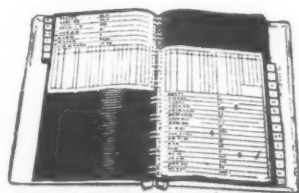
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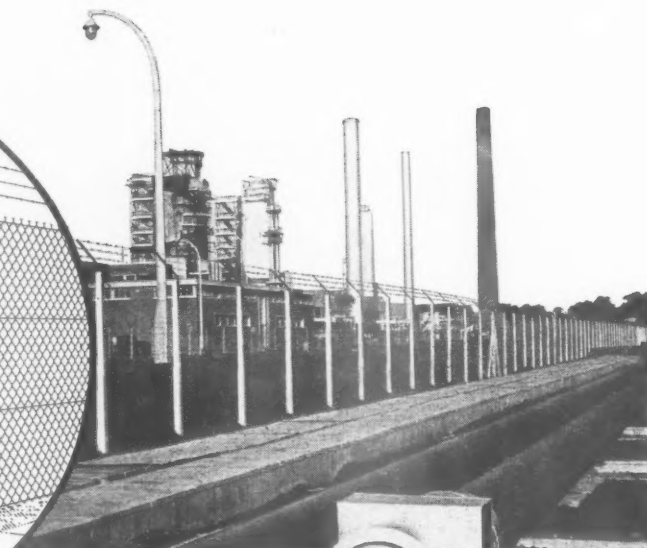
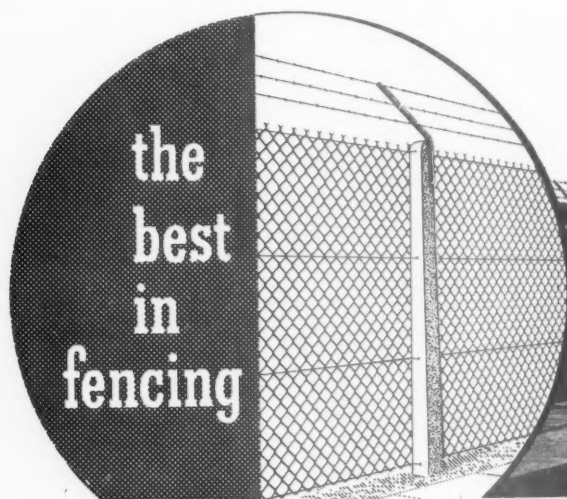
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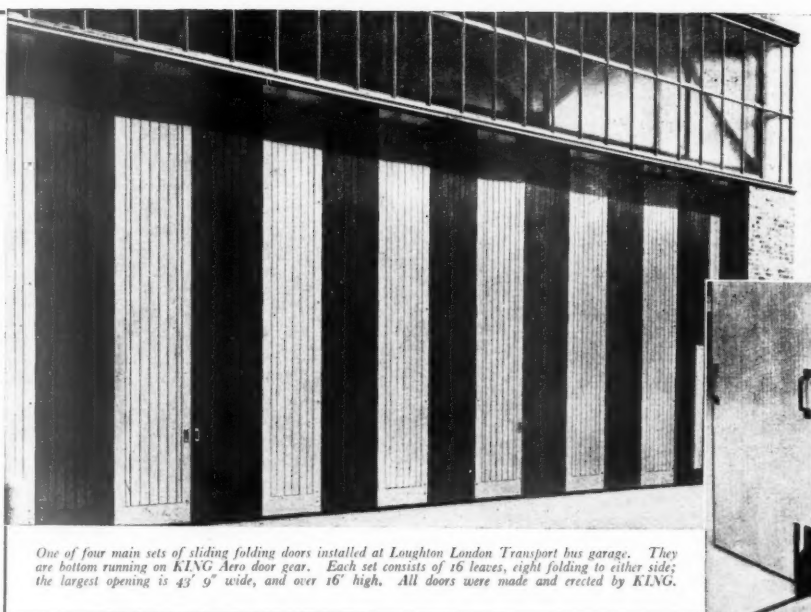
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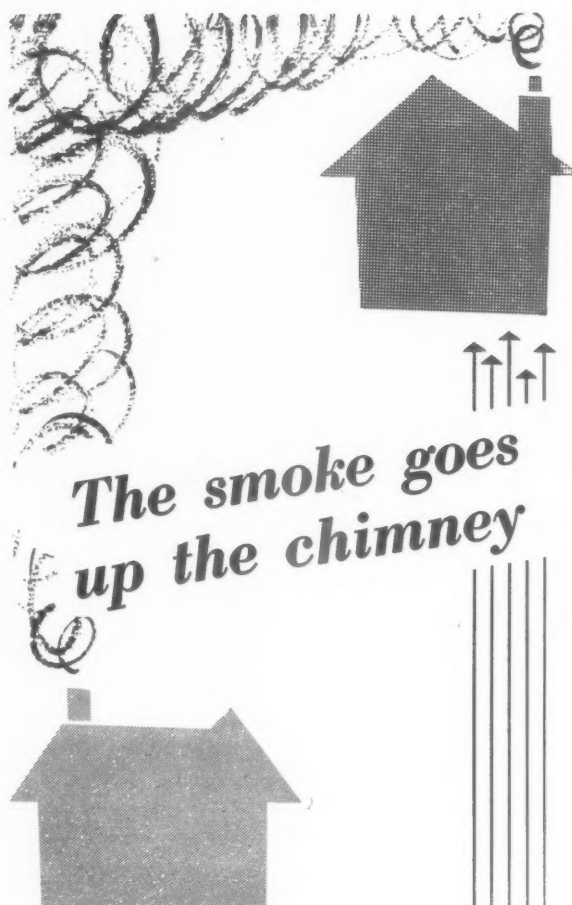
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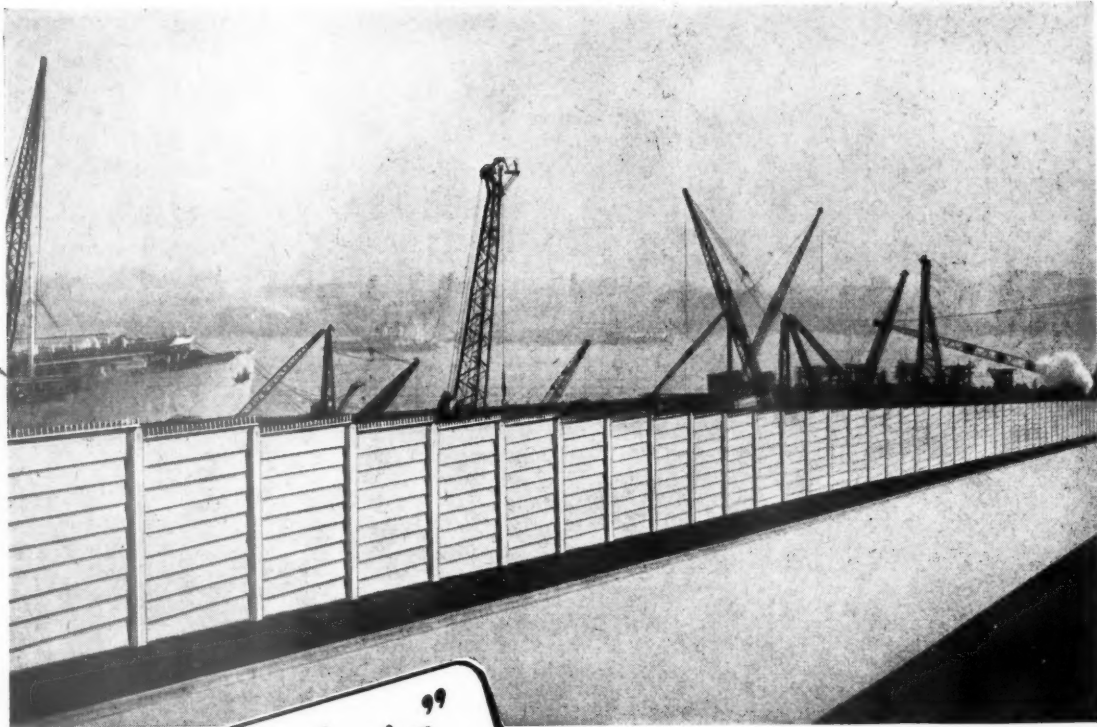
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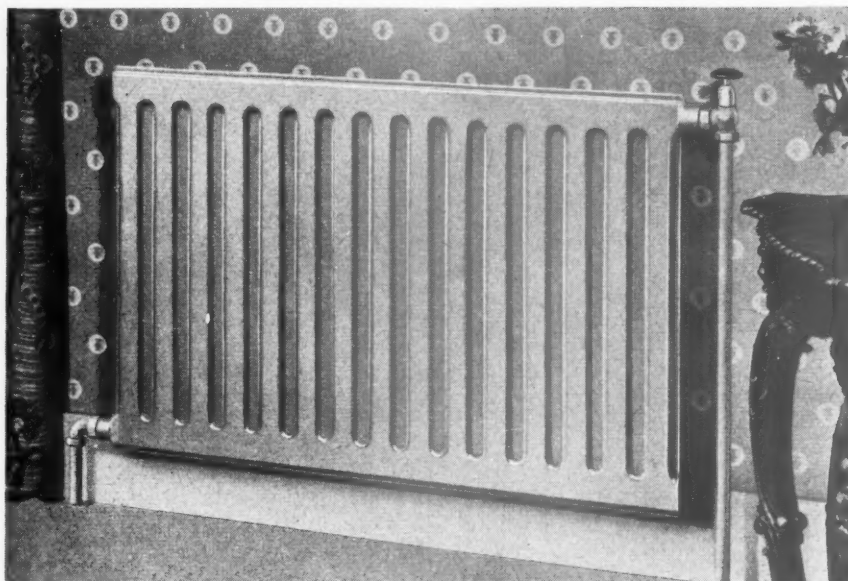
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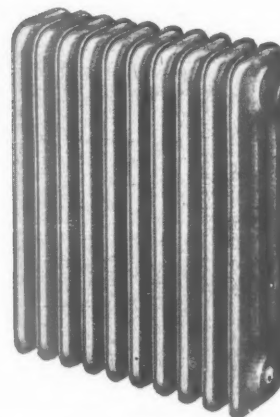
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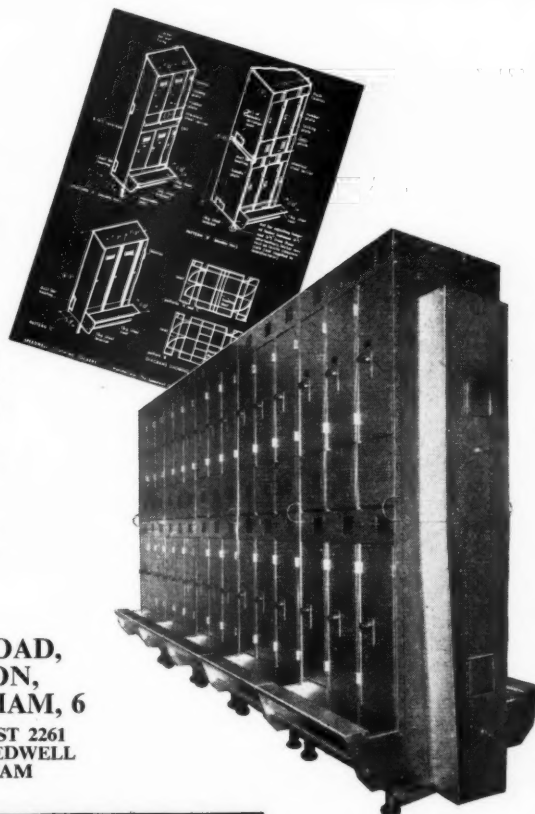
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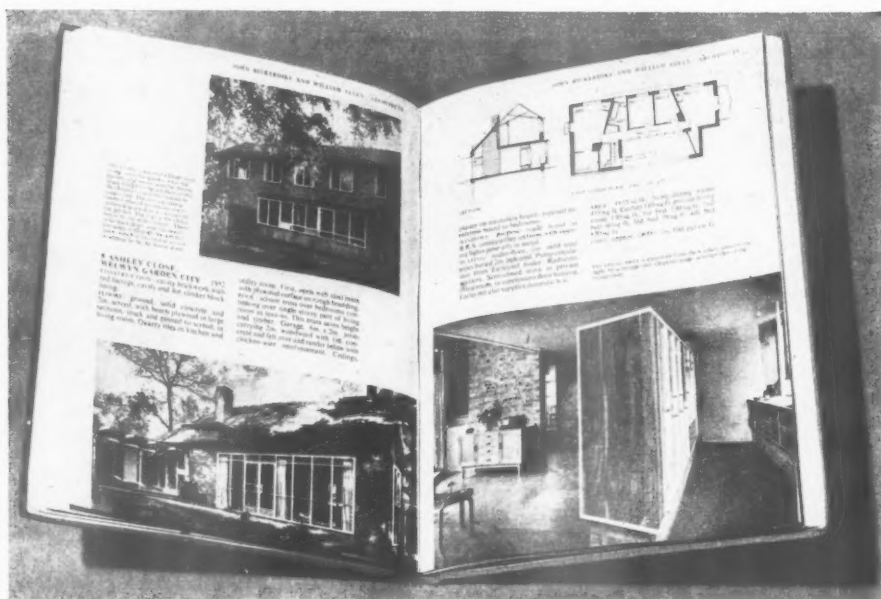
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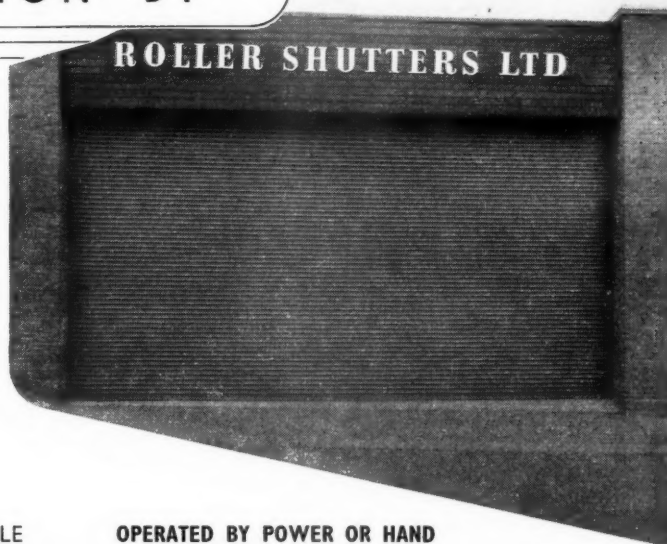
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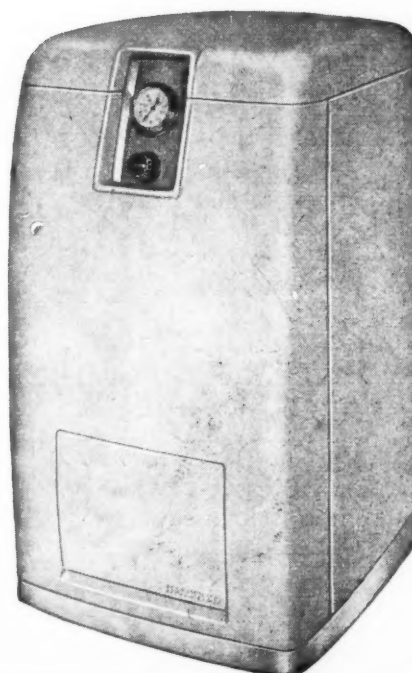
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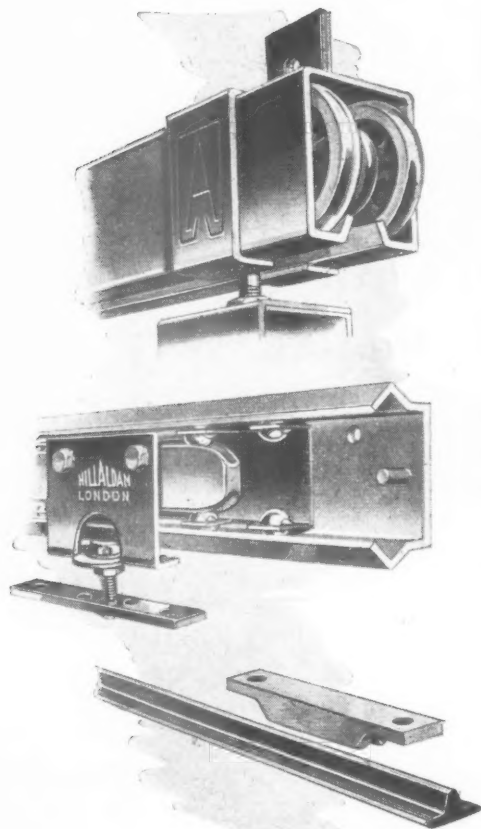


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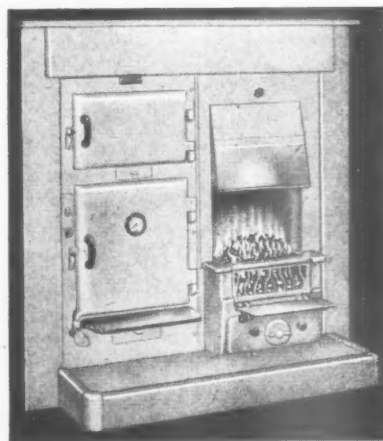
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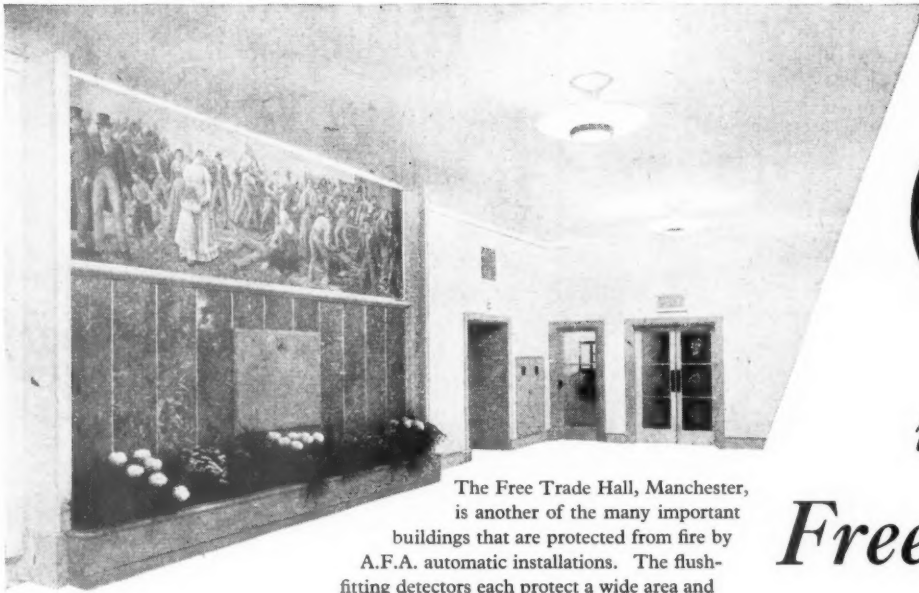
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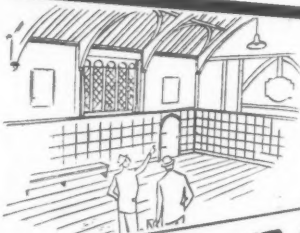
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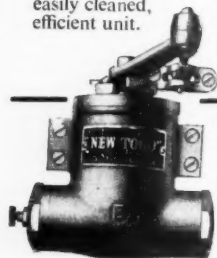
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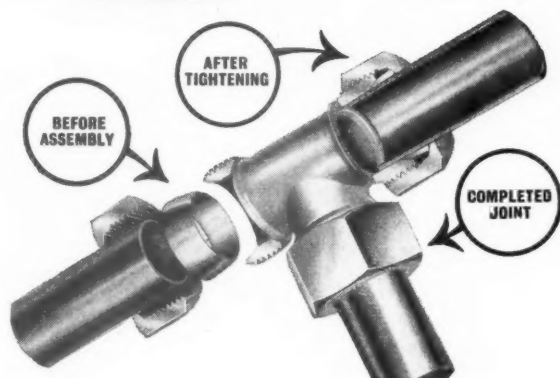


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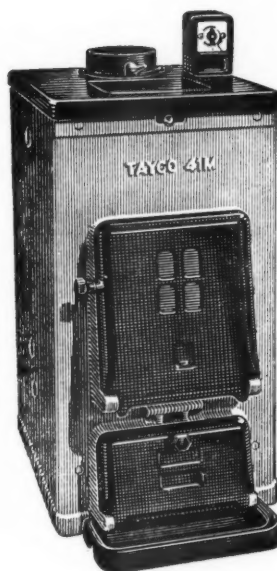


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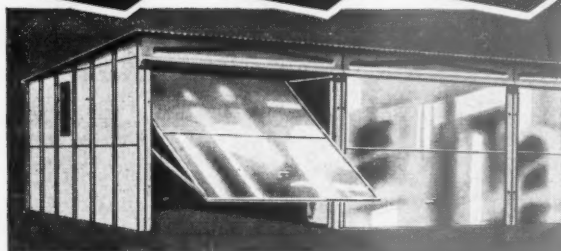
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## CLASSIFIED ADVERTISEMENTS

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 by 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 exempted from the provisions of the Notification of Vacancies Order, 1952.

## BRITISH ELECTRICITY AUTHORITY.

## EASTERN DIVISION

Applications are invited for the following superannuable post in the Generation (Construction) Department at Divisional Headquarters in North London:—

**SENIOR DRAUGHTSMAN (ARCHITECTURAL)**  
Grade 4, £704-£819 p.a.

The commencing salary (which includes London Weighting) will depend upon experience and qualifications.

Candidates should have had experience in the design, construction and detailing of industrial type buildings.

Applications giving age, details of qualifications and experience, to the Controller, British Electricity Authority, Eastern Division, Northmet House, Southgate, N.14, to arrive by 14th May, 1954.

W. N. C. CLINCH.

Controller.  
2421

## MIDDLESEX COUNTY COUNCIL—COUNTY

## ARCHITECT'S DEPARTMENT.

**ASSISTANT ARCHITECT** required, A.P.T. VIII (£785 to £860 p.a., plus London weighting). Appointment at grade minimum. Established, pensionable, subject to medical assessment and prescribed conditions. Must be Registered Architect, and experience in design of Educational buildings an advantage. Application forms (stamped addressed envelope foolscap) from County Architect, 1 Queen Anne's Gate Buildings, Dartmouth Street, S.W.1, returnable by 17th May (quote N.400 AJ). Canvassing disqualifies. 2469

## MINISTRY OF HOUSING AND LOCAL GOVERNMENT ARCHITECTS (SENIOR AND MAIN GRADES) for special work with

**MINISTRY OF HEALTH.** The Civil Service Commissioners invite applications for three pensionable posts in London: (a) Senior Grade, (b) and (c) Main Grade. Posts (a) and (b) are for specialised duties in a new Research Group to study design, planning, and construction of hospitals; (c) is for general architectural duties. For all posts some experience of Hospital work, including modern methods and new materials, is expected, and for post (a) this should be extensive and recent. For post (a) candidates must also be able designers. Age, for post (a) at least 35 on 1st May, 1954; for posts (b) and (c) at least 30 on that date. All candidates must be Registered Architects (by examination) and either F.R.I.B.A. or A.R.I.B.A. Salary: (men), including extra duty allowance, where payable: post (a) £1,485-£1,575; posts (b) and (c) £1,080-£1,426. Somewhat lower for women. Promotion prospects.

Application forms and further particulars from Civil Service Commission, Scientific Branch, 30, Old Burlington Street, London, W.1, quoting No. S4325/54. Applications to be returned by 12th June, 1954. 2523

## SURREY COUNTY COUNCIL.

Applications are invited for the following appointments:—

(a) **PRINCIPAL ASSISTANT ARCHITECT.** Combined Grade IX and X. Commencing salary: £840 + £40/50 to £1,050 p.a., plus London weighting. Applicants must be Members of the R.I.B.A., and experienced in organisation of work.

(b) **ASSISTANT ARCHITECT, Grade VII.** Commencing salary: £735 + £25 to £810 p.a., plus London weighting. Applicants must be Assoc. Members of R.I.B.A., and have had good training and adequate experience in design and construction of modern buildings.

(c) **ARCHITECTURAL ASSISTANT, Grade IV.** Commencing salary: £580 + £15 to £625 p.a., plus London weighting. Applicants must be of good general training, and preference will be given to those who have passed Inter. R.I.B.A.

(d) **ASSISTANT QUANTITY SURVEYOR, Grade VI.** Commencing salary: £695 + £20/25 to £760 p.a., plus London weighting.

(e) **ASSISTANT QUANTITY SURVEYOR, Grade V.** Commencing salary: £620 + £15/20 to £670 p.a., plus London weighting.

Applicants should have experience of taking off, site measuring, and preparation of interim valuations and final accounts; and for Grade VI must have passed the Final Examination of the R.I.C.S.

Applications, giving full details and present salary, accompanied by copies of three recent testimonials, should be sent to the County Architect, County Hall, Kingston-upon-Thames, not later than 15th May, 1954. 2524

COUNTY BOROUGH OF BARNSELEY.  
BOROUGH ENGINEER AND SURVEYOR'S

## APPOINTMENT OF CHIEF ASSISTANT ARCHITECT.

Applications are invited for the appointment of **CHIEF ASSISTANT ARCHITECT**, in the Borough Engineer and Surveyor's Department, at a salary in accordance with A.P.T., Grade VIII (£785-£860).

Applicants should be Associate Members of the Royal Institute of British Architects, and have had considerable experience in the design and layout of Municipal Housing Estates and other Public Buildings.

Housing accommodation will be provided for the successful candidate, if necessary, and a car allowance will be paid in accordance with the Scheme for Casual Users.

The appointment will be subject to (a) the Scheme of Conditions of Service for A.P.T.C. Staff; (b) any other general conditions of employment in operation within the Corporation from time to time; (c) one month's notice on either side; and (d) to the Local Government Superannuation Acts, for which purpose the successful candidate will be required to pass a medical examination.

Applications, stating age, qualifications, present and previous appointments, experience, etc., and giving the names of two persons for reference, should reach the Borough Engineer, Town Hall, Barnsley, not later than Wednesday, 12th May, 1954.

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

A. E. GILFILLAN.

Town Clerk.

Town Hall, Barnsley.

April, 1954.

2405

## AIR MINISTRY WORKS DEPARTMENT requires

## ARCHITECTURAL ASSISTANTS in

Design Branch. Applicants should be experienced in planning and preparation of working drawings and details for permanent and semi-permanent buildings. Professional qualifications an advantage. Vacancies mainly London, few Provinces. Appointments carry liability for overseas service, for which allowances payable. Salaries up to £730 p.a. for men, £618 for women. Starting pay dependent upon age, qualifications and experience.

Extra duty allowance or overtime payable. Reasonable prospects of promotion. Posts temporary and non-pensionable, but have long term possibilities. Competitions held periodically to fill established vacancies. Applications from natural born British subjects only, quoting A/C, and stating age, qualifications, and previous appointments, giving date and stating type of work done, to Air Ministry, S.2(h)/NA, Cornwall House, Stamford Street, London, S.E.1. 2227

## WARWICKSHIRE COUNTY COUNCIL.

## COUNTY PLANNING DEPARTMENT.

Applications are invited for the following appointment:—

**PLANNING ASSISTANT, Grade IV** (£580-£625 per annum).

The person appointed will be stationed at Warwick, and will be engaged on the County Development Plan.

Applicants should hold an Intermediate professional qualification, preferably that of the Town Planning Institute and should have had several years' practical experience.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the National Scheme of Conditions of Service.

Applications, together with the names and addresses of two persons to whom reference may be made, should be sent to J. J. Brooks, M.I.Mun.E., M.T.P.I., County Planning Officer, Northgate, Warwick, not later than Tuesday, the 18th May 1954.

Canvassing, directly or indirectly, will be a disqualification.

L. EDGAR STEPHENS.

Clerk of the Council.

Shire Hall, Warwick.  
30th April 1954.

2503

## GOVERNMENT OF NORTHERN IRELAND.

## MINISTRY OF FINANCE—DIRECTORATE OF

## WORKS.

## ARCHITECTURAL ASSISTANTS.

Applications for unestablished posts are invited from **ARCHITECTURAL ASSISTANTS**, with recognised training and fair experience.

Successful candidates will be eligible for appointment to pensionable posts from time to time, and to a higher grade on obtaining professional qualifications.

Salary: up to £628 per annum; starting pay according to age, qualifications and experience.

Preference will be given to candidates who served in H.M. Forces in the 1914-18 or 1939-45 wars, provided that such candidates are, or within a reasonable time will be, able to discharge the duties efficiently.

Applications, giving date of birth and full details of training and qualifications, should be sent to the Director of Establishments, Ministry of Finance, Stormont.

2434

## WORCESTERSHIRE COUNTY COUNCIL.

## COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the post of **ARCHITECTURAL ASSISTANT, Grade A.P.T., IV** (£580-£625 p.a.). Further particulars and application forms may be obtained from L. C. Lomas.

F.R.I.B.A., County Architect, 14, Castle Street, Worcester, not later than 15th May, 1954. (0.80.) 2464

## NORTH-WEST METROPOLITAN REGIONAL HOSPITAL BOARD.

**TWO SENIOR ASSISTANT ARCHITECTS** required on the staff of the Regional Architect. Salary grade: £875 + £30-£1,025, plus London weighting, £40-£50. Commencing salary at minimum of scale.

Applicants should be Associate Members of the R.I.B.A., and have had considerable experience in a senior capacity in design and construction. Preference will be given to those with recent experience in the design of new hospitals and associated buildings.

Apply to Secretary, North-West Metropolitan Regional Hospital Board, 11a, Portland Place, W.1, by 17th May, with names of two referees. 2435

## LONDON ELECTRICITY BOARD require

**BUILDING FOREMEN** in the Western Sub-Area, to be based at Chelsea, S.W.3. General experience of all building trades and knowledge of Building Regulations, 1948, essential. Preferably should have had some supervisory experience.

Salary: N.J. (B. & C.E.) Committee, Foreman, Grade 2-£575 p.a. Application forms from Personnel Officer, 46, New Broad Street, E.C.2. Please enclose addressed envelope and quote ref. M/2877/A. 2436

## CITY OF CARDIFF.

## APPOINTMENT OF ARCHITECTURAL

## ASSISTANT (HOUSING).

Applications are invited for the following appointment in the City Surveyor's Department, viz.:—

**ARCHITECTURAL ASSISTANT (HOUSING).** A.P.T., Grade 7 (£735-£810 per annum).

Candidates should possess the minimum qualifications and experience prescribed by the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services for posts in the above-mentioned grade.

General Conditions of Appointment may be obtained from the undersigned.

Applications, accompanied by the names and addresses of three referees, and endorsed "Architectural Assistant (Housing), A.P.T., Grade 7," must be delivered to the undersigned not later than the 17th May, 1954.

S. TAPPER-JONES.

Town Clerk.

City Hall, Cardiff.

April, 1954.

2437

## LONDON COUNTY COUNCIL require (i) an

## ARCHITECTURAL ASSISTANT and (ii) LAND-

## SCAPE DESIGNERS for the preparation of

surveys, sketch schemes, working drawings and specifications for buildings and ancillary works in parks and open spaces, and layouts of new parks, sports grounds and garden areas to housing estates, schools. Salaries up to £673, according to experience and qualifications. Application forms from Chief Officer, Parks Dept., Spring Gardens, S.W.1. (490) 2462

## LANCASHIRE COUNTY COUNCIL—

## PLANNING DEPARTMENT.

## PLANNING ASSISTANT (ARCHITECTURAL).

A.P.T., Grades V-VI (£620-£760), required at Manchester. Candidates should possess an architectural qualification. Salary according to qualifications and experience. Applications, giving experience, qualifications, present salary, and two referees, to County Planning Officer, East Cliff County Offices, Preston, by 17th May, 1954. 2440

## MIDDLESEX COUNTY COUNCIL—COUNTY

## PLANNING DEPARTMENT.

**CHIEF PLANNING ASSISTANT** required (A.P.T., VII, £765 to £840 p.a. if 26 years or over). Should have good experience and full qualifications in Planning, Architecture, or other appropriate subject. Established, pensionable subject to medical assessment and prescribed conditions. Application forms from County Planning Officer, 10, Great George Street, London, S.W.1, returnable by 20th May (quote N.398 AJ). Canvassing disqualifies. 2468

## BOROUGH OF BARKING.

## DEPARTMENT OF THE BOROUGH

## ARCHITECT.

**SENIOR ASSISTANT ARCHITECT, Grade** A.P.T., VI (£695 to £760 per annum, plus London weighting).

Applications are invited for the above post. Candidates must be A.R.I.B.A., with considerable practical experience of general Municipal work, including housing, and have been responsible for the supervision of architectural staff.

Application forms, together with full details of the appointment, can be obtained from the Borough Architect, Town Hall, Barking, and completed forms are to be returned to the undersigned not later than Monday, 17th May, 1954.

E. R. FARR.

Town Clerk.

Town Hall, Barking.

2484

## ENGINEERING DRAUGHTSMAN required in

## the Architectural and Constructional Section of

## the Engineer's Department. Should be capable

of assisting in the design of new buildings and alteration to existing buildings, and preparation of working drawings. Salary: £433-£567 per annum, according to experience (N.J.B. Schedule "D," Grade 6), superannuable. Apply within

fourteen days, stating age, experience, present salary and position, to Emil Braathen, Sub-Area Manager, Midlands Electricity Board, 14, Dale End, Birmingham, 4. 2515

**BOROUGH OF BLYTH.**

**SENIOR ARCHITECTURAL ASSISTANT.**

Applications are invited for the appointment of a Senior Architectural Assistant, in the Borough Engineer's Department, at a salary in accordance with Grade V, A.P.T., namely: £620 per annum, rising to £670 per annum by annual increments.

Applicants must be Registered Architects or hold the final examination of the R.I.B.A., with a good experience in Municipal Housing.

The appointment is subject to the National Scheme of Conditions of Service, the provisions of the Local Government Superannuation Acts, the passing of a medical examination, and one month's notice on either side.

Applications, suitably endorsed and accompanied by three recent testimonials, must reach the undersigned not later than first post on 17th May, 1954.

Canvassing will disqualify, and applicants must state whether they are related to any member or senior official of the Council.

**HOUSING ACCOMMODATION WILL BE PROVIDED IF NECESSARY.**

EDWIN V. CARTER,

Town Clerk.

"Dinsdale," Marine Terrace, Blyth,  
Northumberland. 2466

**CITY OF LEICESTER.**

**CITY ARCHITECT'S DEPARTMENT.**

Applications are invited for the following appointments in the Housing Section, Municipal Offices, Charles Street, Leicester:—

(a) **ASSISTANT ARCHITECT, A.P.T., Grade VI** (£695-£760 p.a.). Applicants must be Registered Architects, and preference will be given to those holding recognised architectural qualifications and with housing experience.

(b) **ASSISTANT QUANTITY SURVEYOR, A.P.T., Grade VII** (£735-£810 p.a.). Applicants must be Chartered Quantity Surveyors.

(c) **SITE MEASURING SURVEYOR (BUILDINGS), A.P.T., Grades I-III** (£490-£565 p.a.), according to experience.

(d) **CLAIMS CLERK, A.P.T., Grade I** (£490-£535 p.a.). Applicants must have had experience in a builder's office, and acquired a sound knowledge of building materials and costings.

The appointments will be subject to the National Scheme of Conditions of Service, passing a medical examination, and to one month's notice on either side.

Applications, stating age, experience, qualifications, past and present appointments, with present salary, together with copies of two recent testimonials, should be sent to the undersigned not later than Friday, 14th May 1954.

J. H. LLOYD OWEN,

City Architect.

10, Loseby Lane, Leicester. 2465

**CITY OF CARDIFF.**

**APPOINTMENT OF ARCHITECTURAL ASSISTANT (EDUCATION).**

Applications are invited for the following appointment in the City Surveyor's Department, viz.:—

**ARCHITECTURAL ASSISTANT (EDUCATION), A.P.T., Grade 5** (£620-£670 per annum).

Candidates should possess the minimum qualifications and experience prescribed by the National Joint Council for Local Authorities' Administrative, Professional, Technical, and Clerical Services for posts in the above-mentioned grade.

General Conditions of Appointment may be obtained from the undersigned.

Applications, accompanied by the names and addresses of three referees and endorsed "Architectural Assistant (Education), A.P.T., Grade 5," must be delivered to the undersigned not later than the 22nd May, 1954.

S. TAPPER-JONES,

Town Clerk.

City Hall, Cardiff. 2502

**BOROUGH OF LUTON.**

**APPOINTMENT OF SENIOR ASSISTANT QUANTITY SURVEYOR.**

Applications are invited for the above appointment (salary: A.P.T., VII-VIII, £735-£860).

Candidates should be Chartered Quantity Surveyors, and have considerable experience in all branches of work. A knowledge of valuation and estates work an advantage, but not essential.

Applications, in candidates' own handwriting, stating age, qualifications and experience, with names of two referees, to be sent to the Borough Engineer, Town Hall, Luton, by 22nd May, 1954.

A. D. HARVEY,

Town Clerk.

2467

**GLOUCESTERSHIRE COUNTY COUNCIL.**

**ARCHITECTURAL ASSISTANT, Inter. Exam. R.I.B.A.** General experience in design and construction, N.J.C. Service Conditions, Grade IV. Medical examination. Motor car driving licence.

Apply, giving age, present position, salary, and date appointments, names and addresses of two persons for references. County Architect, Shire Hall, Gloucester, by 12th May.

GUY H. DAVIS,

Clerk of the County Council.

2463

**LONDON COUNTY COUNCIL.**

**ARCHITECTS' DEPARTMENT.**

Vacancies for ARCHITECTS in Schools and Housing Divisions. Salary to £721.

Particulars and application forms, from Architect (AR/EK/A/2), County Hall, S.E.1. (374.) 2205

**BRITISH ELECTRICITY AUTHORITY.**

**EAST MIDLANDS DIVISION.**

Applications are invited for the following positions within the Division:—

**ENGINEERING DRAUGHTSMEN (CIVIL),** Construction Department, (Vacancy No. 1/54/AJ.) Candidates should have experience in design and detail of reinforced concrete structures, piled and slab foundations for heavy plant, culverts, cable subways, etc., for general building construction drainage and sanitation schemes, associated with official and administrative buildings.

The salary will be in accordance with Grade 5 (£567-£671 per annum) or Grade 6 (£433-£567 per annum) of Schedule D of the National Joint Board Agreement.

**ENGINEERING DRAUGHTSMEN (MECHANICAL),** Construction Department, (Vacancy No. 2/54/AJ.)

Senior Draughtsmen are required in the Mechanical Section of the Construction Department at North Wilford Power station. Candidates should have experience in one or more of the following:—

(i) Design and layout of Power Station equipment, including turbo-alternators, boiler plant, coal and ash plant, and general station auxiliaries.

(ii) H.P. and L.P. steam and feed pipework. Condensing plant and feed heating systems.

(iii) Conveyor plant, coal handling systems, and material handling of station auxiliary equipment.

The salary will be in accordance with the National Joint Board Agreement, Grade 5 (£567-£671 per annum) and Grade 6 (£433-£567 per annum) of Schedule D, according to experience.

**ENGINEERING DRAUGHTSMEN (ELECTRICAL),** Construction Department, (Vacancy No. 3/54/AJ.)

Candidates should have experience in the preparation of layouts and diagrams for the installation of E.H.T. and L.T. switchgear, transformers, E.H.T. and L.T. cables; knowledge of protective gear systems would be an advantage.

The salary will be in accordance with the National Joint Board Agreement, Grade 5 (£567-£671 per annum) and Grade 6 (£433-£567 per annum) of Schedule D, according to experience.

**DRAUGHTSMAN, Transmission Department,** (Vacancy No. 46/54/AJ.)

Draughtsmen are required in the Transmission Department at this Divisional Headquarters. Experience on the design and construction of H.V. sub-stations or overhead transmission lines an advantage.

Salary, according to experience and ability, within Grade 6 (£433-£567 per annum) or Grade 5 (£567-£671 per annum) of Schedule D of the National Joint Board Agreement.

Closing date for receipt of applications is 17th May, 1954.

The above positions will be pensionable within the provisions of the British Electricity Authority and Area Board Superannuation Scheme.

Applications should be submitted on the official form, which may be obtained from the Divisional Establishments Officer, British Electricity Authority, P.O. Box No. 25, British Electricity House, Barker Gate, Nottingham, and should be returned to the undersigned by the date stated. Please quote Vacancy Number.

L. F. JEFFREY,

Divisional Controller. 2439

**BRACKNELL DEVELOPMENT CORPORATION.**

Applications are invited for the post of **INSPECTOR OF WORKS** in the Chief Architect's Department. Salary in the range £660-£960, according to qualifications and experience. The successful applicant will be in charge of all Clerks of Works supervising architectural works, will be responsible for the handing over of all housing and for such other work as may be delegated to him by the Chief Architect.

A sound and extensive knowledge of building construction and considerable experience in the supervision of building works of all types is required. An architectural or building management background would be an advantage.

Superannuation schemes. Medical examination. Housing available in due course. Apply by 14th May, 1954, giving age, education and qualifications; experience and appointments held (with dates and salaries), and two referees, to General Manager, Bracknell Development Corporation, Farley Hall, Binfield, Bracknell, Berkshire. 2438

**METROPOLITAN BOROUGH OF WANDSWORTH.**

**ASSISTANT ARCHITECTS.**

Applications are invited for the appointment of:—

(a) **SENIOR ASSISTANT ARCHITECT, A.P.T. VII-VIII** (£765-£890 p.a.).

(b) **ASSISTANT ARCHITECT, A.P.T., Va/VI** (£590-£790 p.a.).

Applicants for both posts should be Associates of the R.I.B.A., and have had considerable experience in the design and planning of housing estates, particularly multi-storey blocks of flats and/or other framed buildings, and in the supervision of their erection. Applicants for (a) must also have had experience in the control of staff.

Application forms, obtainable from the Borough Engineer, must be returned to me by 24th May, 1954.

R. H. JERMAN,

Town Clerk.

Municipal Buildings, Wandsworth, S.W.18. 2485

**CITY COUNCIL OF NAIROBI.**

**APPOINTMENT OF TOWN PLANNING AND BUILDING INSPECTION STAFF.**

**THE CITY ENGINEERS' DEPARTMENT.**

**(TOWN PLANNING SECTION).**

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

(a) **ASSISTANT CITY PLANNING OFFICER,** at a consolidated salary of £1,350 by £50 to £1,450 per annum, plus special temporary allowance, which is at present £350 per annum.

(b) **BUILDING SURVEYOR** at a consolidated salary of £995 by £35 to £1,030 by £40 to £1,150 by £50 to £1,300 by £50 to £1,350 per annum, plus special temporary allowance, which based on the commencing salary of £995 is £345 15s. per annum.

Commencing salary in each case to be determined in accordance with the qualifications and experience of the successful candidate.

Applicants for appointment (a) will be required, as occasion arises, to deputise for the City Planning Officer, and must be Members or Associate Members of the Town Planning Institute and hold an additional qualification in architecture, engineering or surveying, and should have had experience in the office of a Local Planning Authority, particularly in the preparation of a development plan.

Applicants for appointment (b) will be required to take charge of the Building Inspector's Office under the City Planning Officer, and they must be Associate Members of the Royal Institution of Chartered Surveyors (Sub-Division III—Buildings), or hold similar qualifications. Applicants should have up-to-date experience in a Building Inspection Office of a Local Authority, together with a comprehensive knowledge of all forms of building construction, drainage and ventilation.

The appointments are permanent established posts, but will be subject to a probationary period of six months' service. The appointments will be subject to Council's Code of Working Regulations, Conditions and Terms of Service. The successful applicants will be entitled to four weeks' paid leave per annum. They will be allowed to accumulate such leave up to a maximum of thirteen weeks for the purpose of overseas leave, and will be permitted to proceed overseas for such leave at their own expense.

Membership of the Staff Superannuation Scheme is compulsory, the officer's rate of contribution being 7½ per cent. of consolidated salary. Membership of the Employees' Medical Scheme is compulsory for staff and their dependents after confirmation of appointment.

The successful applicants will be required to pass a medical examination before they are appointed.

Applications, stating age, marital status, qualifications and experience, accompanied by a recent photograph and copies of certified testimonials, should be addressed to the Town Clerk, P.O. Box 651, Nairobi, so as to reach him not later than the 7th June, 1954.

JOHN RISEBOROUGH,

Town Clerk.

Town Hall, Nairobi. 2483

**STAFFORDSHIRE COUNTY COUNCIL.**

**COUNTY PLANNING AND DEVELOPMENT DEPARTMENT.**

Applications are invited for the appointment of **PLANNING ASSISTANTS**, on A.P.T. Grades III-IV (£550 to £595 per annum), in the Central Area Planning Office at Wolverhampton.

Applicants for the appointment should have had training in an Architect's, Engineer's, Surveyor's or Planning Office, and preference will be given to those who have passed the Intermediate Examination of the Town Planning Institute or its equivalent.

Applicants should give details of age, education and training qualifications, present and previous appointments and experience, and the names of two persons to whom reference can be made. Applications, in which relationship to any member or senior officer of the County Council must be disclosed, should be sent to D. W. Riley, County Planning and Development Officer, 41a, Eastgate Street, Stafford, not later than the 11th May, 1954.

T. H. EVANS,

Clerk of the County Council.

2501

**DERBYSHIRE COUNTY COUNCIL.**

**COUNTY ARCHITECTS' DEPARTMENT.**

Applications are invited from **QUANTITY SURVEYORS** for appointments on A.P.T. Grades VIII (£785 to £860 per annum), VII (£735 to £810 per annum), and VI (£695 to £760 per annum). Applicants must have passed the Final examination of the Royal Institute of Chartered Surveyors (Quantities) and have had 5 years' experience. It is essential that applicants have a thorough knowledge of the preparation of estimates, taking off quantities for all trades, measuring up, and final accounts.

The appointments are subject to the terms of the National Joint Council's Scheme of Conditions of Service, the provisions of the Local Government Superannuation Act, 1937, and the successful applicants will be required to pass a medical examination.

Applications, on forms to be obtained from this office, must be received by 24th May, 1954.

F. HAMER CROSSLEY, Dipl.Arch.

(L'pool), F.R.I.B.A.,

County Offices, St. Mary's Gate, Derby. 2486



## LEEDS REGIONAL HOSPITAL BOARD.

Applications are invited for the following permanent (superannuable) appointment in the Department of the Regional Architect (Philip B. Nash, A.R.I.B.A.).

**ONE SENIOR ASSISTANT QUANTITY SURVEYOR.** Salary: £875×£30—£1,025 p.a.

Applicants must be Corporate Members of the R.I.C.S., having qualified in Quantities (Sub-Division III), or under certain circumstances be Associate Members of the Institute of Quantity Surveyors. The successful applicant will be in charge of the Quantity Surveying Section of the Board, and the principal duties will be responsibility for estimates, valuation of interim certificates, and the settlement of final accounts.

Applications, giving all relevant particulars, including training and experience, present appointment and salary, war service if any, and the names of two referees, should be forwarded to the Secretary, Leeds Regional Hospital Board, Park Parade, Harrogate, not later than 24th May, 1954. 2487

NORTHERN IRELAND HOUSING TRUST.  
ASSISTANT ARCHITECT.

The Trust has a vacancy for an Assistant Architect, Grade II, on the salary scale of £725×£25—£800. Candidates must be Associate Members of the Royal Institution of British Architects, and should have experience of housing projects.

Preference will be given to ex-Service candidates. The person appointed will be required to participate in a contributory Superannuation Scheme, allowing for the reciprocal transfer of benefits in Local Government Superannuation Schemes in suitable cases.

Assistance in obtaining housing accommodation may be given to the successful candidate.

Forms of application, which should be returned not later than 29th May, 1954, may be obtained from the General Manager, Northern Ireland Housing Trust, 12, Hope Street, Belfast. 2488

## CITY OF WAKEFIELD.

## CITY ENGINEER'S DEPARTMENT.

Applications are invited for the following permanent appointments:—

(a) **PRINCIPAL QUANTITY SURVEYOR.** Grade A.P.T., VII (£735-£810), commencing at £735.

Applicants must be qualified Quantity Surveyors, with a wide experience on Housing, Schools, and other Municipal buildings.

(b) **JUNIOR ARCHITECTURAL ASSISTANT.** Grade A.P.T., II (£520-£565), commencing at £520.

Applicants should be good draughtsmen, and have some Municipal experience.

Applications, giving full particulars of appointments and experience, along with names of two referees, to be received by 19th May, 1954.

**HOUSING ACCOMMODATION WILL BE CONSIDERED IN RESPECT OF APPOINTMENT (a).**

W. S. des FORGES.

Town Clerk.

Town Hall, Wakefield. 2489

## BOROUGH OF SWINDON.

## BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of **ASSISTANT ARCHITECT**, Grade A.P.T., V (£620-£670 per annum), required for a large development programme in connection with the proposed expansion of the Borough.

Applicants should have had experience in general architectural work, particularly in the layout of estates and the design of dwellings, and must be Associate Members of the Royal Institute of British Architects.

**HOUSING ACCOMMODATION** is available.

Applications, on forms obtainable from the Town Clerk, Civic Offices Swindon, must be returned by the 20th May, 1954. 2504

**NATIONAL COAL BOARD, EAST MIDLANDS DIVISION.** Architects' Department, Nottingham, require **ARCHITECTS**. Appointment will be in salary grade appropriate to qualifications and experience, viz.:—

(a) £600×£25—£650×£30—£900, or

(b) £525×£25—£650 (exceptionally to £800).

For (a) candidate must be Corporate Member of R.I.B.A., with not less than 1 year's subsequent practical experience; for (b) candidate should have passed Intermediate Examination of R.I.B.A., and have not less than 3 years' subsequent practical experience. (S.V.313.)

**QUANTITY SURVEYING ASSISTANT.** Grade I. Temporary appointment.

Salary grade: £525×£25—£650 (exceptionally to £800).

Candidates should have passed Intermediate Examination of R.I.C.S. and have not less than 3 years' subsequent practical experience. (S.V.314.)

Applications, stating age, education, qualifications, experience and present appointment, with salary, to Secretary, N.C.B., East Midlands Division, Sherwood Lodge, Arnold, Notts., within 14 days of publication. Mark envelope with appropriate "S.V." number. Original testimonials should not be sent. 2506

## LONDON COUNTY COUNCIL.

## ARCHITECT'S DEPARTMENT.

(a) **PLANNING OFFICERS**, Grade III (up to £862 10s.).

(b) **PLANNING ASSISTANTS** (up to £721).

Professional qualifications: A.R.I.B.A., A.R.I.C.S. and/or A.M.T.P.I. required. Application forms and particulars from Architect (AR/BK/P/4), County Hall, S.E.1. (1322) 1330

## COUNTY OF ESSEX.

## ILFORD COMMITTEE FOR EDUCATION.

The Essex County Council invite applications for the post of **ARCHITECTURAL ASSISTANT** in the offices of the Borough Engineer of Ilford. Candidates should have passed the R.I.B.A. Intermediate Examination, or its equivalent, at one of the recognised Schools of Architecture, and have worked in an architectural office for a period of not less than two years.

The scale of salary will be in accordance with the National Joint Council, A.P.T. Division, Grade IV, £580×£15—£625, plus the appropriate London Area allowance.

Applications should be made on a form to be obtained from, and returned to, the Borough Education Officer, Education Offices, Town Hall, Ilford, together with copies of not more than three recent testimonials, within 14 days of the appearance of this advertisement. 2505

## 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.

**JUNIOR ASSISTANTS and ARCHITECTURAL DRAUGHTSMEN** required by Multiple Shop Co. in the London area. Excellent working conditions, staff canteen, superannuation, 5-day week. Experience required in surveys, a large scale working drawings and details under supervision. Please reply, stating age and salary required, to Box 2150.

**REQUIRED** for Architects' office, Central London area, young qualified **ASSISTANTS** interested in design and construction. Write, stating experience and salary required. Box 2325.

**SENIOR and JUNIOR ARCHITECTURAL ASSISTANTS and Draughtsmen** or women required in busy office in the Home Counties. Some experience essential. Large varied practice. Please state experience and salary required. Box 2137.

**A SENIOR ARCHITECTURAL ASSISTANT** required, full experience in preparation of Working Drawings, Details, and supervision of office and industrial buildings in the London Area. Good knowledge of construction and design essential. Apply in writing giving full particulars of qualifications, age, experience and salary required to Box 9829.

**ARCHITECTURAL ASSISTANTS:** one senior qualified. Two intermediate standard for Belfast (Northern Ireland) office. Please reply stating details of experience, salary required, etc. Box 2429.

**ARCHITECTURAL ASSISTANTS** required for busy practice engaged upon schools, industrial buildings, offices, etc. Write, giving full particulars of qualifications, experience and salary required, to Johns & Slater, F./A.R.I.B.A., 32, Foundation Street, Ipswich. 1336

**RONALD WARD & PARTNERS** require several **ARCHITECTURAL ASSISTANTS**, intermediate standard. Apply Sloane 8291, or 17, Lowndes Street, S.W.1. 2419

**ARCHITECTS** in Portsmouth require **ASSISTANTS** for Industrial and Commercial work. Apply, with full particulars and salary required, to Box 2382.

**REQUIRED**, at once, **ARCHITECTURAL ASSISTANT**. Office experience essential. Good draughtsman, working drawings and details. Good salary paid. West Lancashire area. Private practice. Write, with details. Box 2375.

**ASSISTANT** required in progressive practice, W.I. for interesting domestic, commercial and industrial work. Experience essential, preferably qualified or final standard. Salary according to ability. Phone HUNTER 0451 or write Box 2443.

**SENIOR ARCHITECTURAL ASSISTANT** required for London offices. Salary: £850-£900. Good draughtsman, experienced, and capable of undertaking work with minimum supervision. Full details to Box 2365.

**ARCHITECTURAL ASSISTANT**, of Inter. standard, required for London offices. Salary: £550-£600. Some office experience essential, and must be neat draughtsman. Full details to Box 2366.

**ASSISTANT** required, of Inter. standard. Good draughtsman, with at least 3 years' office experience, essential. Salary up to £520, according to age and experience. Apply in writing, stating age and experience, to R. Jelinek-Karl, F.R.I.B.A., 22, Chancery Lane, W.C.2. 2376

**ARCHITECTURAL ASSISTANT**, between Intermediate and Final standard, required for Architects' Department of a large Firm of Civil Engineering Contractors situate in the Midlands. The successful applicant must have a sound knowledge of construction in both the Industrial and Domestic field, with an aptitude for design and be a quick and accurate Draughtsman. This post offers excellent prospects in a progressive and expanding Company in the development of their own estates. Reply in writing, stating age, qualifications, experience, and present salary, to Box 2364.

**ARCHITECTURAL STAFF** required for wide range of work in Architects' Department. Salaries: £500-£900 p.a., dependent upon experience and ability.

**ARCHITECTURAL DRAUGHTSMEN and JUNIORS** also required for duties entailing assistance in the preparation of working drawings and details for New Tradition Housing, Multi-storey Flats and Maisonettes. Salaries dependent upon experience and ability.

All appointments on permanent basis in Hammersmith. Write, giving brief details of qualifications and experience, to Chief Architect, George Wimpey & Co., Ltd., 27, Hammersmith Grove, London, W.6. 2360

**GOLLINS, MELVIN, WARD & PARTNERS** offer responsible posts on large and unusual projects to **ASSISTANTS** with initiative, imagination and experience of working drawings, especially interested in Contemporary Architecture. Reply by letter, giving full particulars, salary required, and telephone number, to 15, Manchester Square, London, W.1. 2358

**ARCHITECT'S ASSISTANT** required in West End office. Should be good draughtsman, with some knowledge of design and construction. Please write, stating age, experience, and salary required, to Box 2374.

**ARCHITECTURAL ASSISTANT** required, Intermediate R.I.B.A. standard. Write, stating previous experience and salary required, to Graham Crump & Denis Crump, F./A.R.I.B.A., 43, George Street, Croydon, Surrey. 2361

**SENIOR ASSISTANT** urgently required, preferably A.R.I.B.A., in West End Architect's office. Please telephone LANgham 2636 for interview. 2481

**ARCHITECTURAL DRAUGHTSMAN** required for Building Contractors Design Office. Duties to include the design of Non-Traditional Houses and assist in the administration and development of the Company's Non-Traditional Housing Programme. Additional experience in Civil Engineering draughtsmanship an advantage. Work varied and interesting for right applicant. Replies, stating present position, salary, etc., to Personnel Officer, Mytton Limited, Newland, Hull. 2442

**EXPERIENCED ASSISTANT** required. Must have sound knowledge of construction and be a good draughtsman. Salary according to capabilities. Reply to E. D. Lyons, L. Israel & T. B. H. Ellis, 26, Seymour Street, London, W.1. 2446

**ARCHITECTURAL ASSISTANT** of about Intermediate Standard required by Plymouth Architects. Full particulars to Box 2449.

**ARCHITECTURAL ASSISTANT** required in Westminster office of Consulting Engineers for work in connection with designs of Power Stations, Industrial Buildings, Administrative Office Blocks, etc. Apply stating age, experience and qualifications. Box 2445.

**ARCHITECTURAL ASSISTANT** required Inter. R.I.B.A. Standard. Experience in large housing contracts desirable. Write stating age, experience and salary required to Personnel Manager, Taylor Woodrow Homes Ltd., Ruislip Road, Southall, Middlesex. WAXlow 2636. 2444.

**SENIOR ARCHITECTURAL ASSISTANT** required immediately in busy and varied practice in South Yorkshire. Final R.I.B.A., essential, and some office experience desirable. Salary according to qualifications and experience. Pension Scheme in operation. Apply with full particulars. Box 2459.

**JUNIOR ARCHITECTURAL ASSISTANT** required immediately in busy and varied practice in South Yorkshire. Intermediate R.I.B.A. qualification essential and a minimum of three years' office experience. Salary in accordance with qualifications and experience. Pension Scheme in operation. Apply with full particulars. Box 2460.

**LIVERPOOL — ARCHITECTURAL ASSISTANTS** required—Senior and Junior. Salary according to experience and ability. Full details to G. de C. Fraser, Son & Gearey, Chartered Architects, 27, Dale Street, Liverpool. 2458

**ASSISTANTS** required with experience in contemporary design. Intermediate and Final R.I.B.A. standard. Five-day week. Interesting and varied work. Applications stating age, experience and salary required to be sent to William Blair B.Arch.(Lvp.). A.R.I.B.A., 8, St. James' Street, Derby. 2455

**ARCHITECT'S ASSISTANT** required, reply stating age, experience and salary required to—Burgess, Holden and Watson, Chartered Architects, Beaconsfield, Buckinghamshire. 2456

**ARCHITECTURAL DRAUGHTSMEN** capable of working from sketches required in West End office of major Oil Company. Men with good educational background who wish to make Architecture their career will be considered. Age limits 23-28. Salary according to age and experience. Pensionable. Luncheon Club. Write in detail quoting No. 449 to Box No. 7614, c/o Charles Barker & Sons Ltd., 31, Budge Row, London, E.C.4. 2454

**UGANDA**—Qualified **ARCHITECT**, preferably bachelor, school trained, able to take charge of Branch Office if required. Salary: £1,000 per annum, plus share of profits after probationary period. Apply to Box No. OSS 31/2, Overseas Technical Service, 5, Welldon Crescent, Harrow. 2507



**ASSISTANT** required with all-round experience for general Practice, good draughtsman, capable of preparing working drawings and details, salary according to capabilities. F. Greenwood, A.R.I.B.A., 18, The Green, Richmond, R.I.C.: 6316. 2452

**SENIOR ARCHITECTS' ASSISTANTS.**—Charles B. Pearson & Son of Manchester and Lancaster, require qualified Architects immediately in their Manchester office. Some experience of Hospital work an advantage but not essential. Apply stating age, experience and salary required to 24, Loxford Street, All Saints, Manchester. 2470

**SALARY £900-£1,000. SENIOR ARCHITECTURAL ASSISTANT** required. Experience in the design and construction of flats an advantage. Co-partnership firm, with opportunities for keen man. Apply in writing, with full details of experience, to Co-operative Planning, Ltd., 73b, South Side, Clapham Common, S.W.4. 2491

**ARCHITECTURAL ASSISTANT** required S.E. London, must be experienced in preparation of plans for Estate Development and Surveys. Write full details and salary required to Box 2472.

**DRAWING OFFICE STAFF** required for Architects office, Wembley area. Preferably Inter-standard R.I.B.A., R.I.C.S. Office experience essential. Salary according to experience. Box 2473.

**QUALIFIED** and experienced **SENIOR ASSISTANT** required by provincial private practice with varied works in hand. Apply giving full details and salary required to Deacon & Laing, 9, St. Paul's Square, Bedford. 2474

**NORTHERN RHODESIA.**—Two unqualified **ARCHITECTURAL ASSISTANTS**, several years' experience. Salary: £720 p.a., plus bonus, fare out. Apply to Box OSS 19/2, Overseas Technical Service, 5, Welldon Crescent, Harrow. 2508

**REQUIRED.** immediately, one **SENIOR** and one **JUNIOR ASSISTANT**. Applications, giving references, experience, and salary required, to Philip A. Cramwick, A.R.I.B.A., A.M.P.E.I., 21, Suffolk Street, London, S.W.1. 2517

**ARCHITECTURAL ASSISTANT** required, with knowledge of construction and able to produce drawings quickly and accurately. Preferably with about two years' office experience. Salary between £400-£500 per annum. Apply Powell & Moya, A.B.B. 3156. 2511

**NORTHERN RHODESIA.**—Firm of Architects require for their KITWE office a **SENIOR ARCHITECTURAL ASSISTANT** (30-40), with some administrative experience, at a commencing salary of £960. Free passage out. Apply Box OSS 37/8, Overseas Technical Service, 5, Welldon Crescent, Harrow. 2510

**ARCHITECTURAL ASSISTANT** required for private practice in Worcester, capable of carrying out work from sketch drawing to final account. Please give full particulars, including salary required. Box 2514.

**ARCHITECTURAL ASSISTANT** required in busy West End office engaged on commercial work. Able to prepare sketch schemes and working drawings. Ability to prepare perspectives an asset. Reply, stating age, experience, and salary required, to Box 2512.

**NAIROBI.**—Leading firm of Architects require qualified **SENIOR ARCHITECTURAL ASSISTANTS**, with at least 5 years' experience. Salary according to qualifications, experience, etc. bonus, and leave scheme. Apply Box OSS 17/6, Overseas Technical Service, 5, Welldon Crescent, Harrow. 2509

**ARCHITECTURAL ASSISTANT** required in the West End office of Percy Bilton, Ltd. Salary about £500-£600, according to experience. Work would entail preparation of drawings, details and specifications for wide range of buildings, including houses, estate layouts, flats, and offices. Write, giving experience and other useful information, to Staff Architect, Percy Bilton, Ltd., 113, Park Street, W.1. 2520

**ARCHITECTURAL ASSISTANT** required immediately for varied practice. At least Intermediate standard, with three years' office experience. Salary according to ability and experience. A. R. Dannatt & Son, Chartered Architects, Prudential Buildings, 65A, Duke Street, Chelmsford. 2516

**EXPERIENCED SENIOR ASSISTANT** required, capable of carrying out work from sketch plan to completion, in a private practice dealing with commercial work, office shops, factories, etc. Please write, stating experience and salary required, etc. Lewis Solomon, Son & Joseph, 21, Bloomsbury Way, W.C.1. 2499

**ARCHITECTURAL ASSISTANT** required in London Architects Office. Hospital experience an advantage but not essential. Write stating age, experience, qualifications and salary required to W. H. Watkins, Gray & Partners, 19, Grosvenor Place, S.W., or telephone Sloane 1840 for appointment. 2476

**JUNIOR ASSISTANT** required for architect's office in Westminster district. Apply stating experience and salary required to Box 2477.

**ARCHITECTURAL ASSISTANTS** with not less than two years' experience required immediately. Salary according to experience and qualifications. Apply to:—W. Curtis Green, R.A., Son & Lloyd, 5, Pickering Place, St. James's Street, S.W.1. 2478

**SENIOR ARCHITECTURAL ASSISTANT**, first class draughtsman, experienced in design and construction of large commercial and industrial buildings required by Architects in Westminster. Box 2479.

**JUNIOR ARCHITECTURAL ASSISTANT**, Inter-standard, first class draughtsman with knowledge of construction and detailing for large commercial and industrial buildings required by Architects in Westminster. Box 2480.

**ARCHITECT ASSISTANT** required for Kampala, Uganda. Salary about £700 per annum and bonus. Three years' contract and passage paid. Single man preferred. Apply R. S. Cobb, F.R.I.B.A., Mill End, Kidlington, Oxon. 2471

**QUALIFIED ARCHITECT ASSISTANT** required for practice which deals extensively with commercial work. Previous London experience essential. Salary up to £1,000 p.a., according to experience. Write Box 2500.

**PLYMOUTH** Architects require male **JUNIOR ASSISTANT**, capable preparing usual drawings and details for industrial and domestic work, under principal's supervision. Salary, according to experience, £400-£450. Details, stating salary, to Box 2496.

**REQUIRED** in country town, South Midlands, competent **ASSISTANT**, Inter. to Final stage. Also **JUNIOR**, to Inter. stage. Accommodation can be made available. Apply Box 2494.

**BIRMINGHAM** firm of Chartered Architects requires **SENIOR ASSISTANT** for carrying out a variety of interesting work. Write, stating experience and salary required, to Box 2493.

**ARCHITECTURAL ASSISTANT** required for Worcester office. Intermediate standard, with at least three years' office experience. Knowledge of alteration work and specification writing desirable. Good salary to suitable applicant. Reply to Willis, Llewellyn Smith & Waters, 103, Old Brompton Road, S.W.7. 2492

**ARCHITECTURAL ASSISTANTS** required in Central London office with wide range of work. Applicants must be capable of producing working drawings and supervising work. Wages will be paid commensurate with ability. Please write, stating age, salary required, and experience, to Box 2490.

**ARCHITECTURAL ASSISTANTS**, advanced Intermediate or Final standard, required. Varied work, including schools, churches, factories, housing. Apply Jennings, Homer & Lynch, 3 and 5, Church Street, Brierley Hill, Staffs. Tel.: Brierley Hill 7545/6. 2497

## Architectural Appointments Wanted

**ARCHITECT**, with wide international experience in most aspects of the profession, including housing, schools, prefabrication, industrial design and interiors, wishes to participate in projects or research—architectural or industrial. Free lance, group or part-time. Box 2384.

**SENIOR ARCHITECT**, A.R.I.B.A. (36), seeks responsible position with private architects or company. School trained, with 15 years' varied experience in private practice. Contemporary outlook. Capable of taking charge of contracts, office administration and staff control. Box 877.

**EXPERIENCED SENIOR ARCHITECTURAL ASSISTANT** (31), clean draughtsman, and able to manage contracts, contemporary outlook, seeks responsible progressive position, with prospects, in the London or South Country areas. Salary in the region of £750 per annum. Please write Box 867.

**STAFF ARCHITECT** requires similar position with Multiple or Commercial firm, London or South. Thoroughly experienced in commercial and domestic work. Surveys, Reports, Specifications, etc. Able to organise, administer and control office. Box 879.

**ASSISTANT**, part Special Final, desires change. Wide experience in general practice; working drawings, details, specifications, surveys, levelling, supervision, accounts, etc. Married, car driver. Present salary £680. Box 2522.

**SENIOR ARCHITECTURAL ASSISTANT** (school trained), 20 years' experience in preparation of working drawings, details, supervision of office and industrial buildings, laboratories, etc.; good knowledge of construction and design, seeks permanent and responsible position in London area. Box 868.

**A.R.I.B.A.**, public school and University education, 4 years' experience, requires interesting, responsible, and remunerative post. S.W. London or Surrey preferred. Box 2519.

## Other 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 accepted from the provisions of the Notification of Vacancies Order, 1952.

**THE MIDLAND JOINERY WORKS, LTD.**, Burton-on-Trent, have a vacancy for an experienced **ESTIMATOR** (preferably) with all-round knowledge of the technical side of a joinery undertaking.

The appointment would be progressive, and, if satisfactory, may lead to executive position. This is an unusual opportunity for a young man of ability, with the will to work.

Residential accommodation is offered, together with pension scheme.

State fullest details of age, qualifications, experience, salary required, and when available. 2513

**BUILDING and Civil Engineering DRAUGHTSMAN** required, with experience in one or more of the following: Structural Steelwork, Building Construction, Heavy Foundations. Apply immediately, stating age, experience, etc., to The Chief Engineer, Guest Keen Baldwins Iron & Steel Co., Ltd., East Moors, Cardiff. 2328

**DRAUGHTSMAN**, experienced in general building details, required in Wembley district. Reply in writing, stating age and salary required. Box 2371.

**SECRETARY**, part-time, required in small practice, W.C.2. Experience with Architect or Surveyor essential. Simple book-keeping etc. State experience, age, and salary required. Box 2377.

**QUANTITY SURVEYING ASSISTANT** required immediately on staff of busy Architects' office to work under qualified Surveyor. Suit young man passed Intermediate standard studying for Final. Experience in taking off, working up, interim certificates and final accounts. Salary offered: £500-£550, or according to experience. Unfurnished flat available if required. Apply, stating age and experience, to Ruddle & Wilkinson, F./L./A.R.I.B.A., Long Causeway Chambers, Peterborough. 2369

**TAKER OFF** required large Midlands Office—Permanent Position—Five-day week—Assistance with accommodation if required. Salary £650-£1,000. Write stating age and experience. Box 2415.

**VACANCY** arises for Articled Pupil (Architectural or Building Surveying) in City Firm. Box 1720.

**SENIOR QUANTITY SURVEYOR**, to take charge of department. Apply Jennings, Homer & Lynch, 3 and 5, Church Street, Brierley Hill, Staffs. Tel.: Brierley Hill 7545/6. 2498

**JUNIOR DRAUGHTSMAN** required, with experience in Shop Fitting work. Must be good draughtsman, with design ability. Salary about £10 per week, according to experience. Apply in first instance to G. M. Boon, A.R.I.B.A., Chief Architect, Lotus, Ltd., Shoe Manufacturers, Stafford. 2495

**PRIVATE SECRETARY** required by Senior Partner, Quantity Surveyor. Able work on own initiative and only experienced, competent person should apply. 5-day week. Write—A.E.T.F. 17, Fitzhardinge Street, Portman Square, W.1. 2447

**ESTIMATOR** with experience in building construction and quantities required by established firm of Specialist Sub-Contractors, South Manchester. Prospects for man with initiative. State experience, age and salary. Box 2475.

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**SENIOR SHORTHAND TYPIST** required Architect/Surveyor's office aged 30/40 approx. Commencing salary £375; free lunches. One Saturday duty in three. Apply L. Robinson, Thos. Tilling Ltd., 15, Curzon Street, W.1. 2453

### Services Offered

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

**EXPERIENCED LONDON ARCHITECT** with own office able to give assistance to Architects, etc. Gladstone 7355. Box 1640.

**SURVEY of Sites and Buildings, Detailed Drawings, Quantities, Variations Measured, Final Accounts, Specifications and Reports.** Qualified Surveyor. LIV. 1839. 1352

**GOOD LETTERING IS ESSENTIAL** for Commemorative Wall Tablets, Foundation Stones, etc. Layouts and F.S. templates prepared. Estimates given for the finished work in any material. Renowned as a Lettering Centre since 1934. Sculptured Memorials, 67, Ebury Street, London, S.W.1. Tel.: Sloane 6549. 2010

**CHARTERED QUANTITY SURVEYOR** with established provincial practice having recently re-opened London office with Junior Partner would welcome opportunity of co-operating with Architects. Box 2256.

**ARCHITECTS**, requiring mature, imaginative professional support are invited to write to Box 2385.

**ELECTRICAL ENGINEER** seeks part-time or free-lance appointments. Consulting engineering experience—Inspections, Reports and recommendations. Specifications and supervision during progress. Hospitals, Institutions, Offices, etc. Box 2425.

**SITE SURVEYS** at short notice anywhere; Estate Surveys, 15 acres per week, contoured and plotted, mobile, and fully equipped; Structural Calculations; Roads and Sewer Lay-outs, plans, quantities, specifications, run-off calculations and supervision; Sewerage Lift Design; isolated Sewage Disposal Units designed; reliable periodic visits to building and engineering works. All undertaken promptly and efficiently by qualified engineer. Telephone: London, LEE Green 8597. 2450

**ARCHITECT** and Chartered Structural Engineer (University graduate), desires a position of responsibility, with view to eventual Partnership. Apply Box 2518.

**STRUCTURAL DESIGN**—A group of qualified Designers, experienced in steel, light alloy, reinforced and pre-stressed concrete, offer part-time services for preparation of design schemes, drawings and calculations. Box 2521.

### For Sale or Wanted

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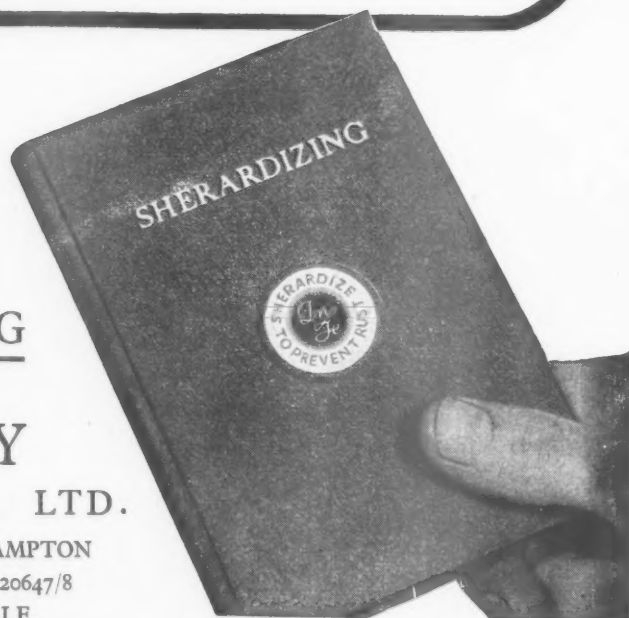
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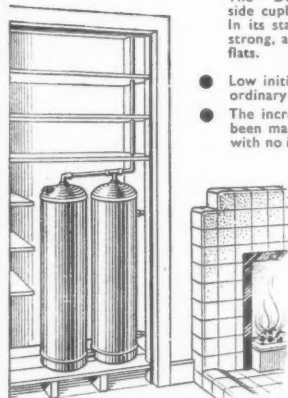
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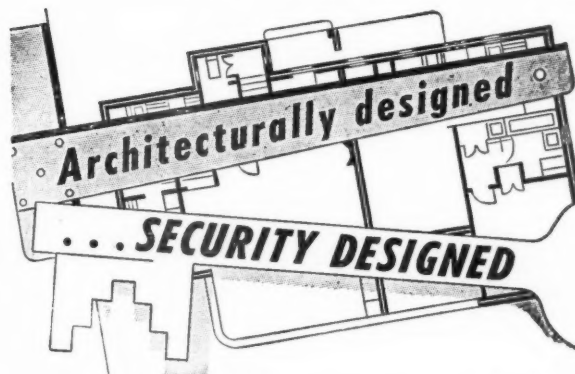


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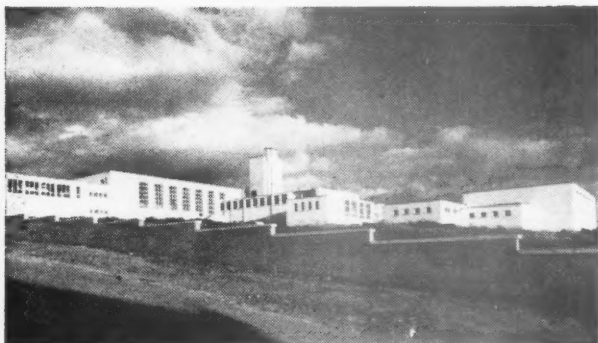


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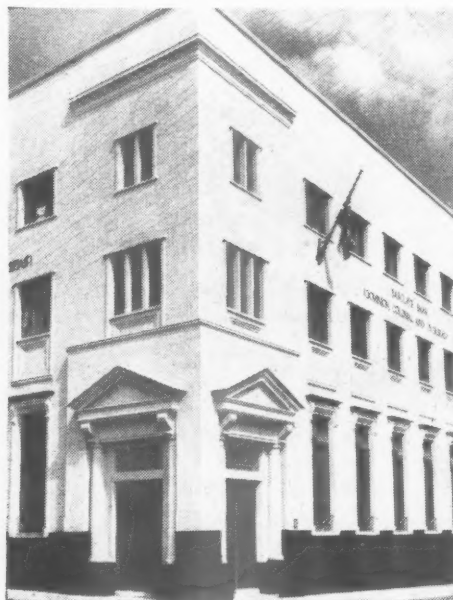


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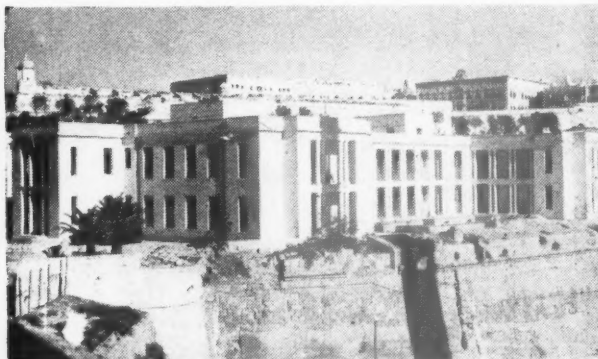
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