

THE ARCHITECTS' JOURNAL



standard contents

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

NEWS and COMMENT

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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 Ic one week, Ic to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

IEE	Institution of Electrical Engineers. Savoy Place, W.C.2.	Temple Bar 7676
IES	Illuminating Engineering Society. 32, Victoria Street, S.W.1.	Abbey 5215
IGE	Institution of Gas Engineers. 17, Grosvenor Crescent, S.W.1.	Sloane 8266
IHVE	Institution of Heating and Ventilating Engineers. 75, Eaton Place, S.W.1.	Sloane 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
IR	Institute of Refrigeration. Empire House, St. Martin's-le-Grand, E.C.1.	Monarch 7391
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 7128-29
IWA	Inland Waterways Association. 11, Gower Street, W.C.1.	Museum 9200
LIDC	Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1.	Whitehall 7264
LMBA	London Master Builders' Association. 47, Bedford Square, W.C.1.	Museum 3891
MARS	MARS Group (English Branch of CIAM). 34, Gordon Square, W.C.1.	Euston 2158-9
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. Whitehall, S.W.1.	Whitehall 4300
MOLNS	Ministry of Labour and National Service. St. James's 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.	Abbey 7711
MOTCP	Ministry of Town and Country Planning. 32-33, St. James's Square, S.W.1.	Whitehall 8411
MOW	Ministry of Works. Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalte Mine-Owners and Manufacturers Council. 94, Petty France, S.W.1.	Abbey 1010
NAS	National Association of Shopfitters. 9, Victoria Street, S.W.1.	Abbey 5277/8
NBR	National Buildings Record. 37, Onslow Gardens, S.W.7.	Kensington 8161
NCBMP	National Council of Building Material Producers. 2, Caxton Street, S.W.1.	Abbey 5111
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street, W.1.	Langham 4041
NFBTO	National Federation of Building Trades Operatives, Federal House, Cedars Road, Clapham, S.W.4.	Macaulay 4431
NFHS	National Federation of Housing Societies. 13, Suffolk St., S.W.1.	Whitehall 2881/2/3
NHBRC	National House Builders Registration Council. 82, New Cavendish Street, W.1.	Langham 4041
NPL	National Physical Laboratory. Head Office, Teddington.	Molesey 1380
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 0211/2
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.	Whitehall 9936
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 5721/7
RICS	Royal Institution of Chartered Surveyors. 12, Great George St., S.W.1.	Whitehall 5322
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.	Temple Bar 8274
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. 20, Piccadilly, London, W.1.	Regent 6347
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. 14, Moorgate, London, E.C.2.	Central 4444
SIA	Society of Industrial Artists. Room 243, Empire House, St. Martin's-le-Grand, E.C.1.	Metropolitan 8344
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. 75, Cannon Street, E.C.4.	City 4771 (6 lines)
TGC	The Gas Council. 1, Grosvenor Place, S.W.1.	Sloane 4554
TPI	Town Planning Institute. 18, Ashley Place, S.W.1.	Victoria 8815
TTF	Timber Trades Federation. 81, Cannon Street, E.C.4.	City 1476
WDC	War Damage Commission. Devonshire House, Mayfair Place, Piccadilly, W.1.	Mayfair 8866
WEDA	Welfare Equipment Development Association. 61, St. Paul's Churchyard, E.C.4.	City 4263/4
ZDA	Zinc Development Association. Lincoln House, Turl Street, Oxford.	Oxford 47988

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[Vol. 111

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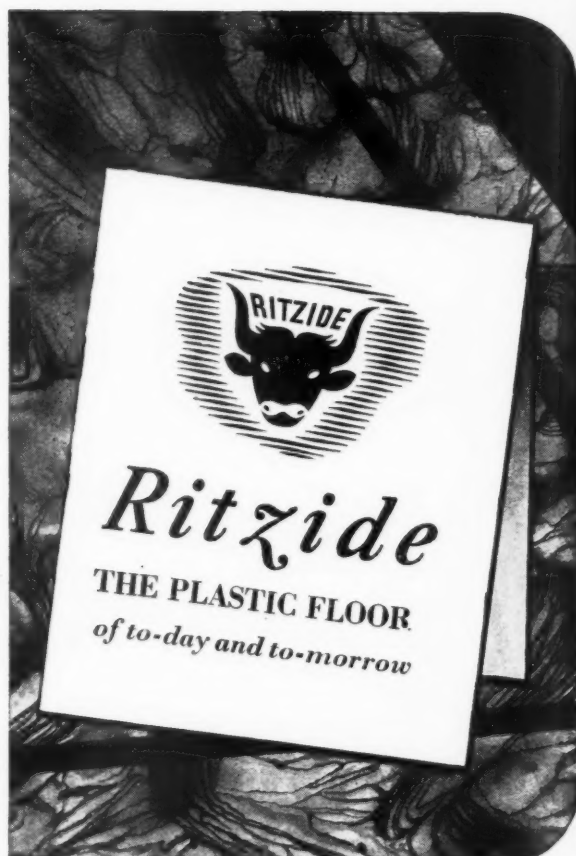
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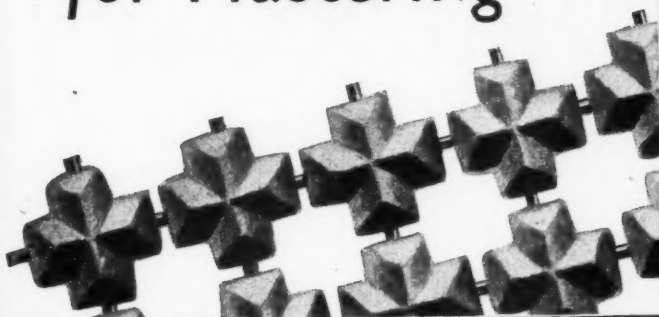
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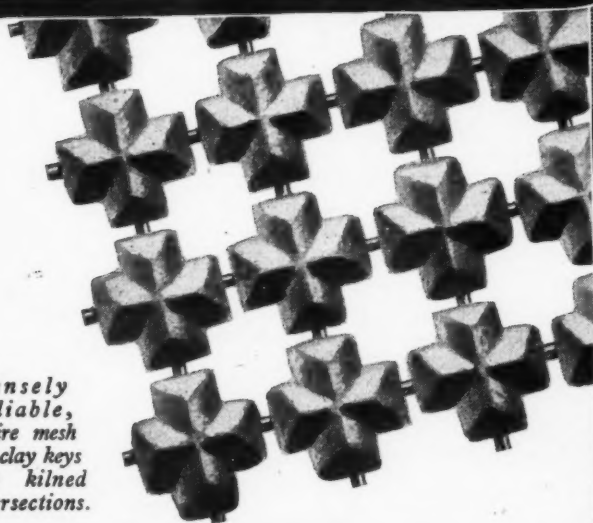
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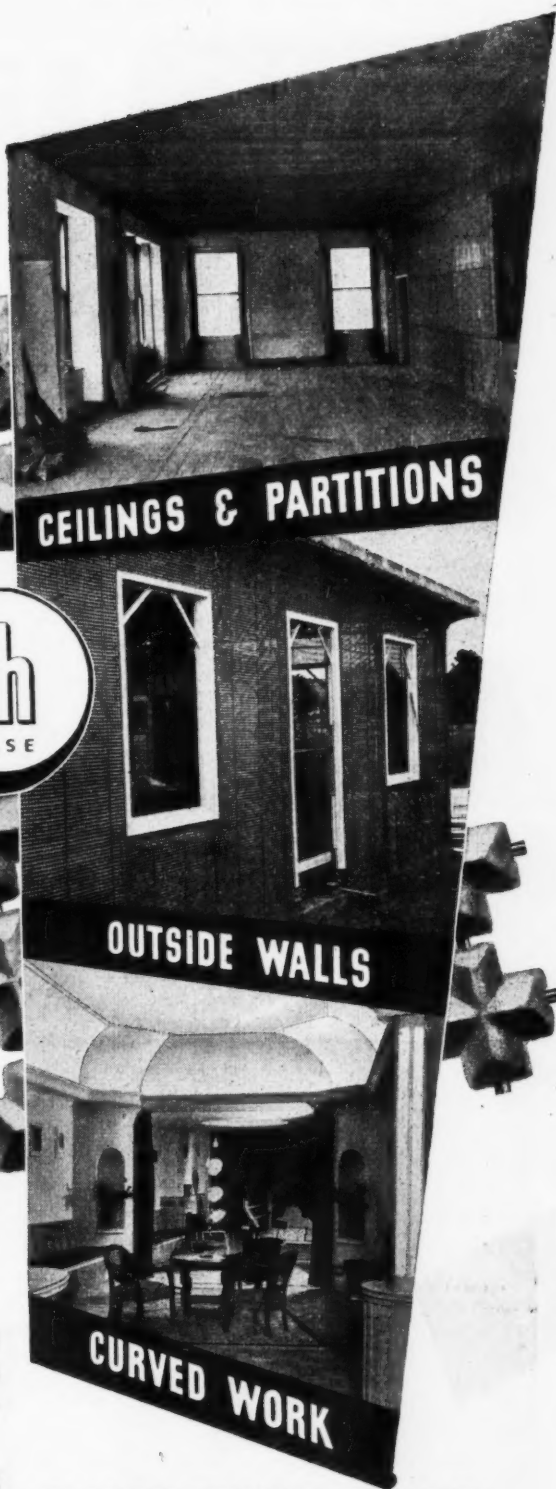
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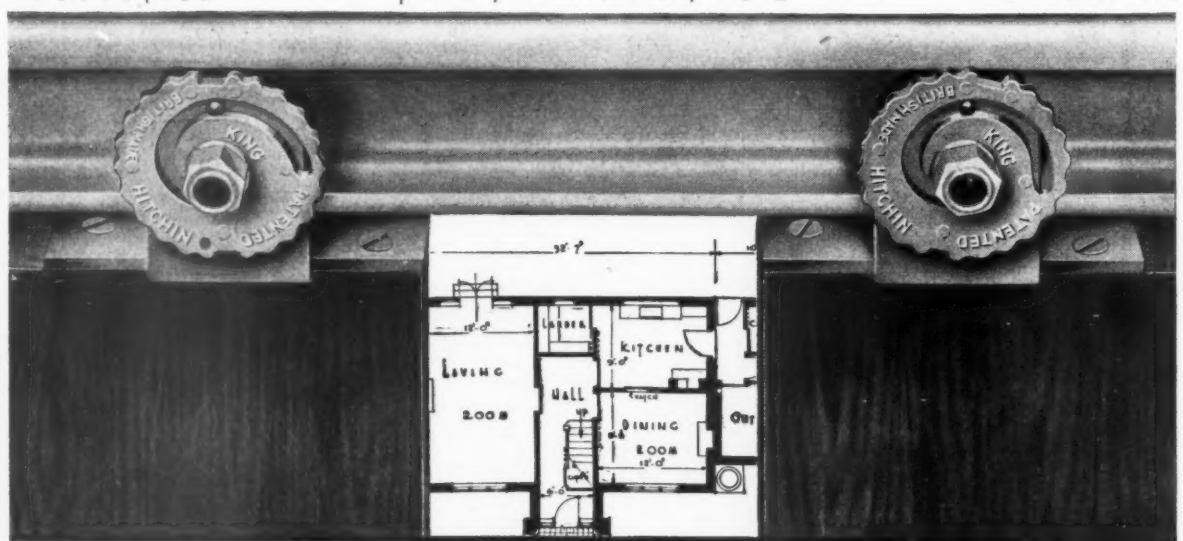


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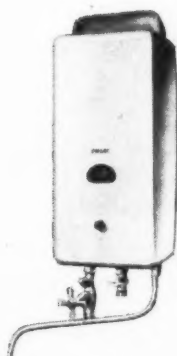
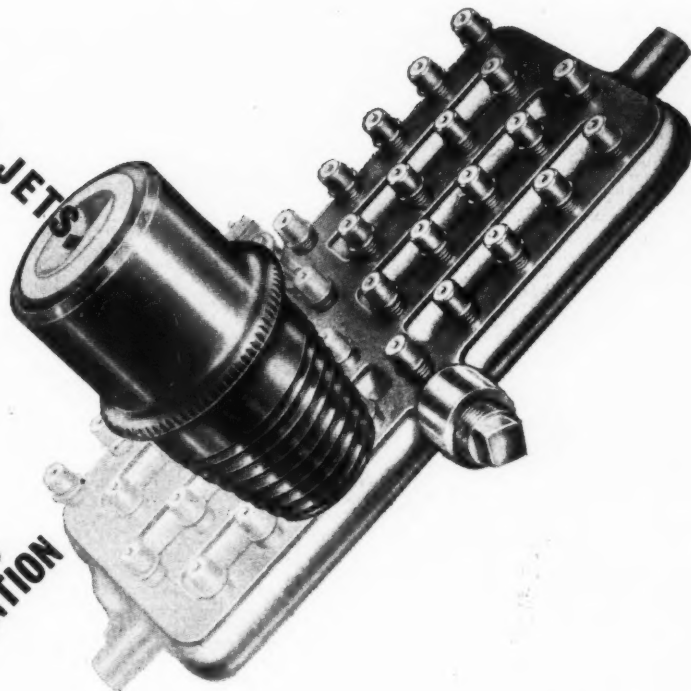
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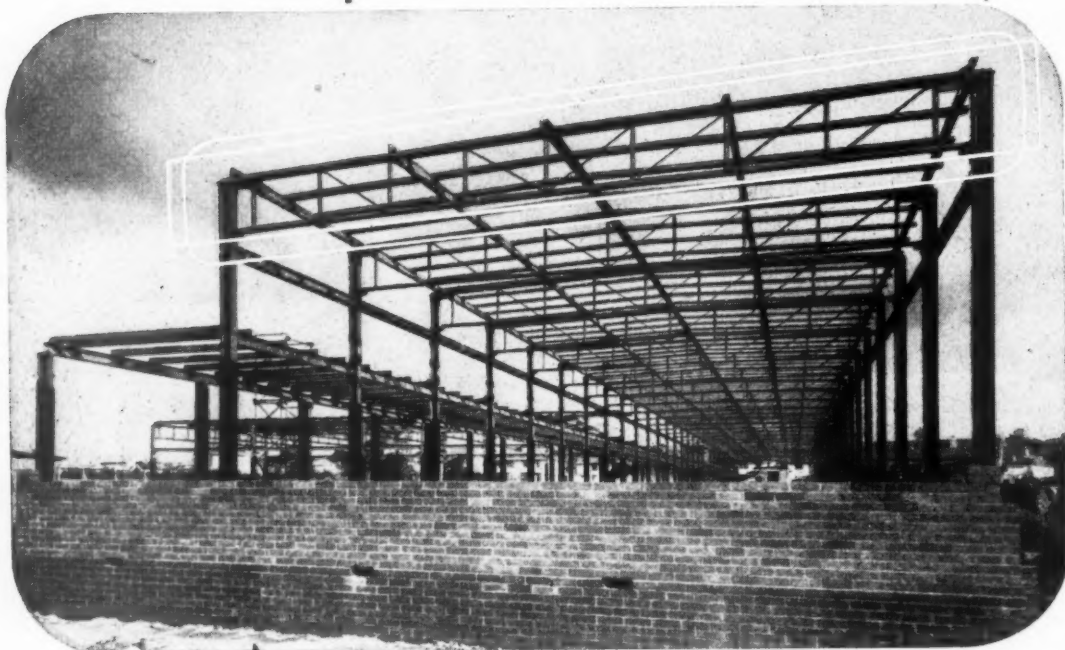
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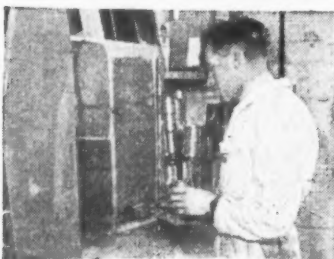
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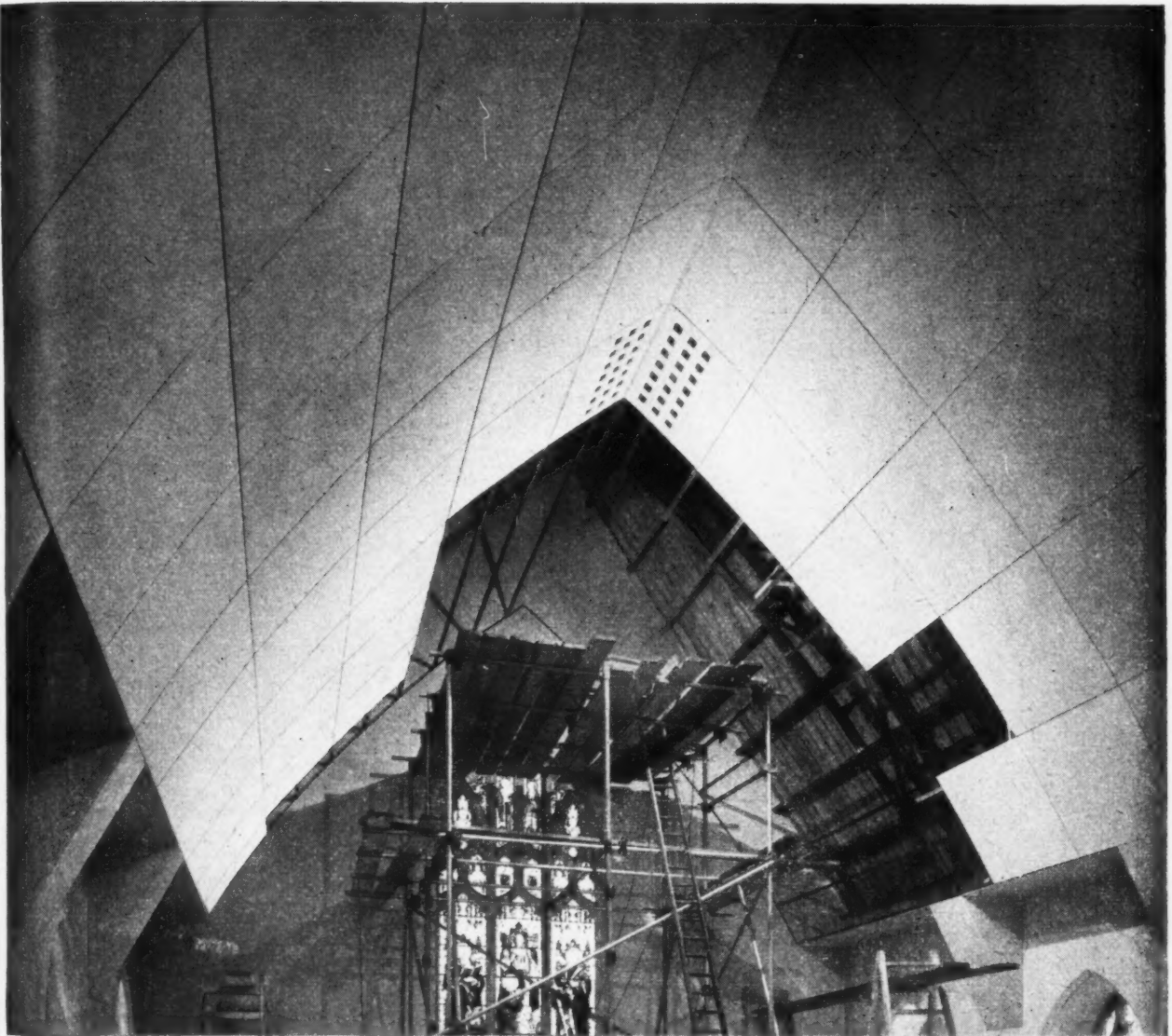
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Unwritten letters to a young architect

No. 3

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I am reminded of this because we've just had a stinking job to do—stinking is the right word. There was absolutely no sign of it before we took the floors up, except that beastly musty odours but when we began to investigate it was everywhere; in the ground floor; in the plaster on the walls; we even found signs of it in the roof!

I was really sorry for the owners. They are nice people and had kept their house nicely and the pity of it all is that it was not their house which was the real trouble but an unoccupied bomb-damaged house next door. The dry-rot had started there and pushed out its feelers or tendrils or whatever they are called.

Never forget, Roger, that dry-rot lives on timber but it can go right through a brick wall to get at more timber. A lot of people forget that. They also forget that its spores are airborne so there is no defence against it except prevention. And that's the architect's job.

Best wishes,

Yours,

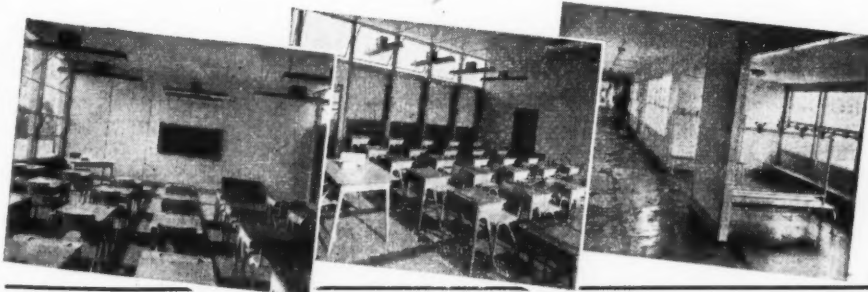
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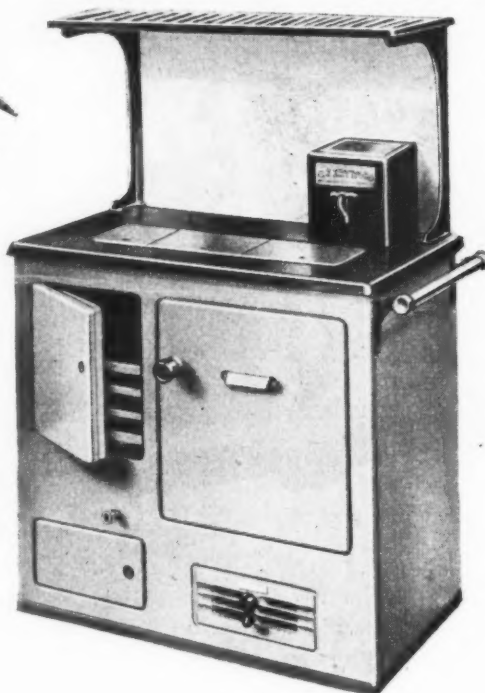
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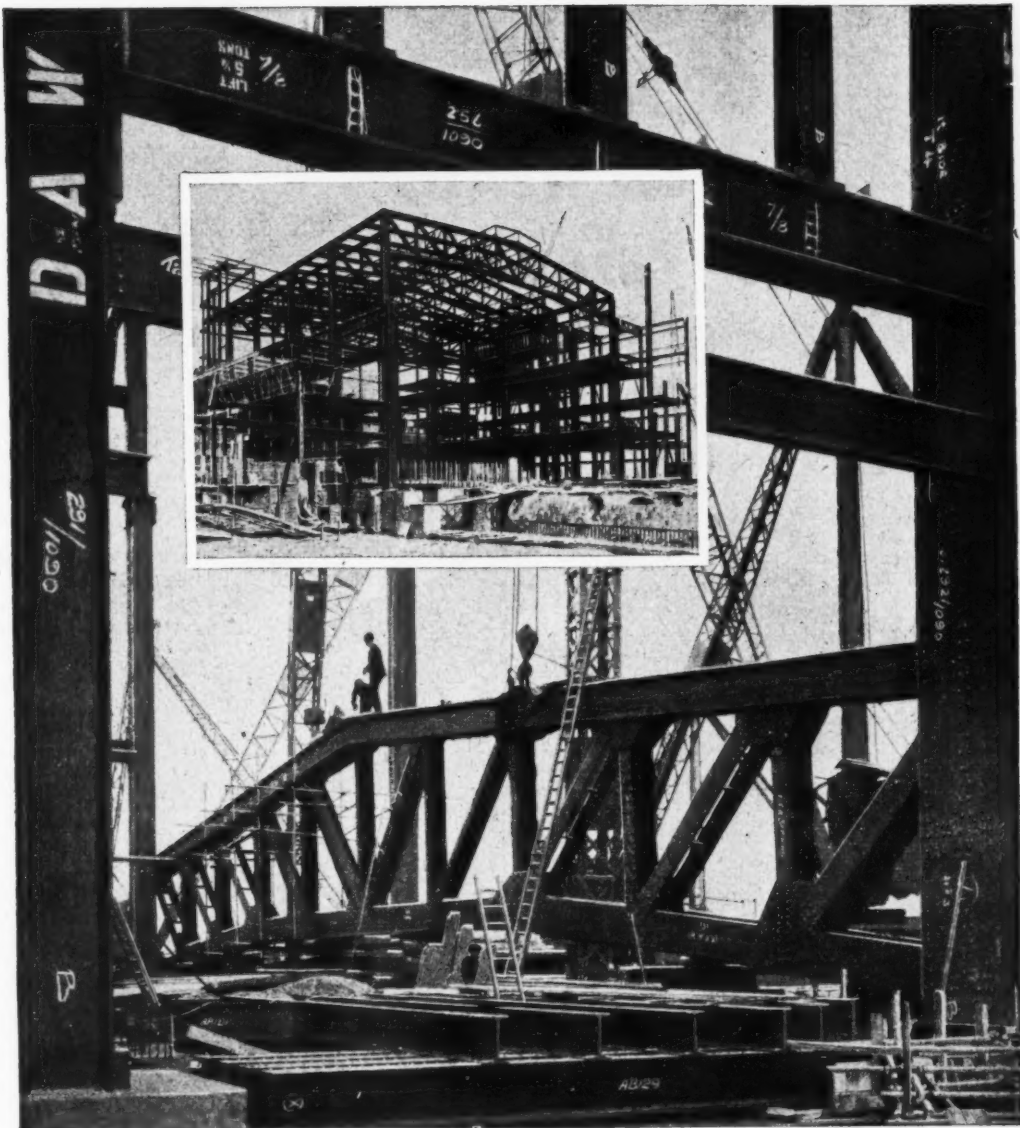
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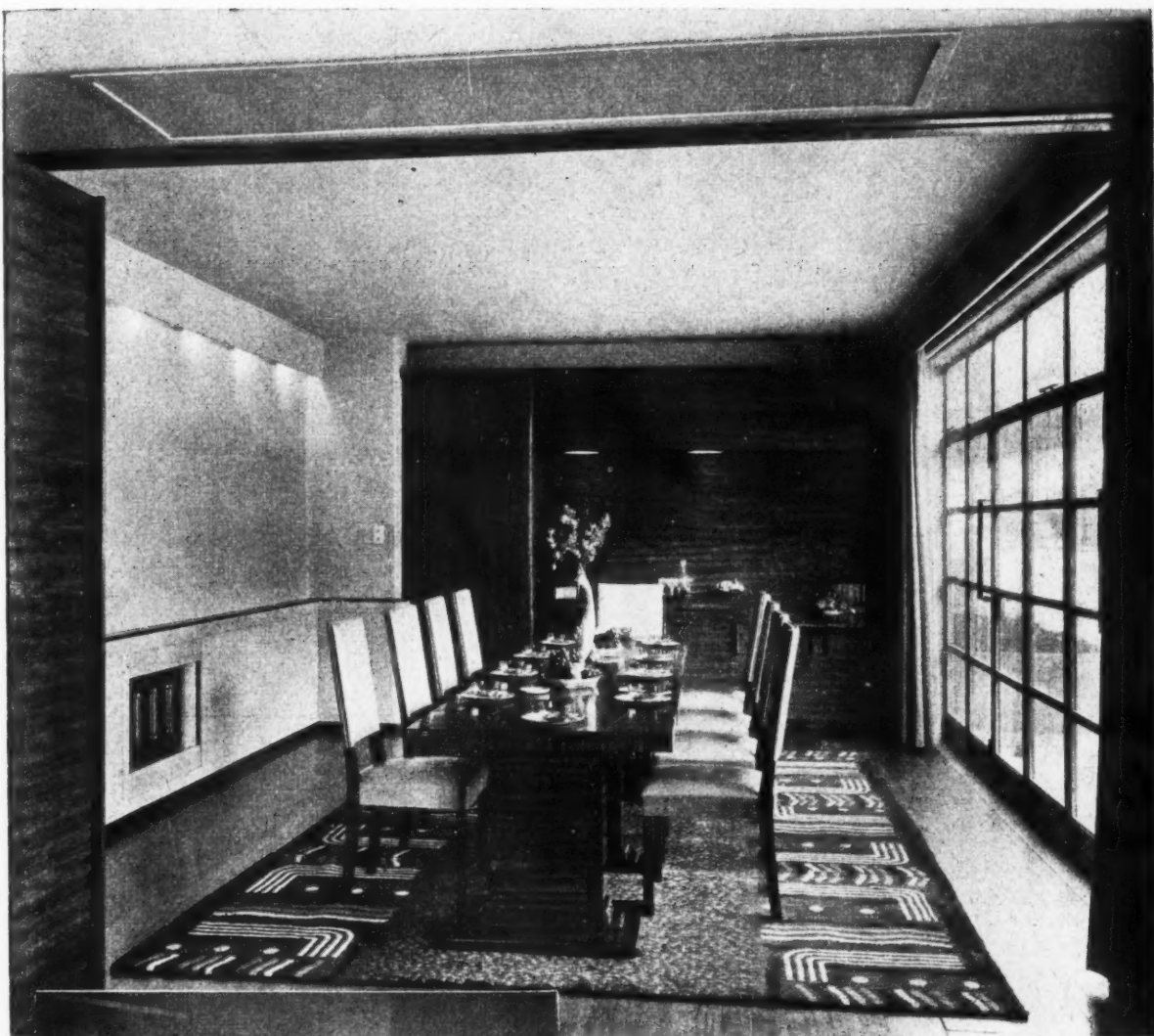
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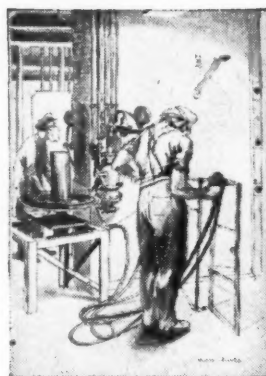
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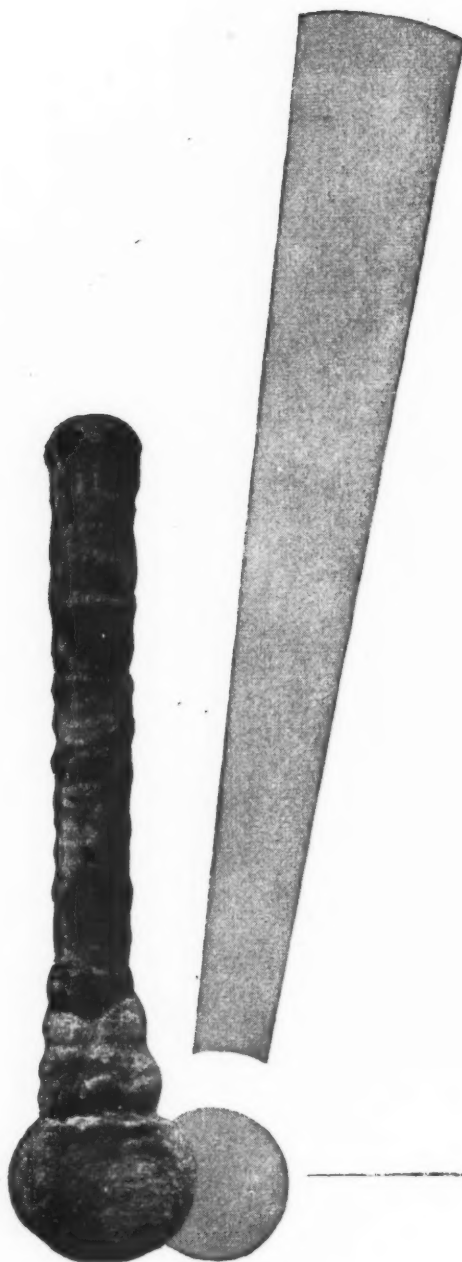
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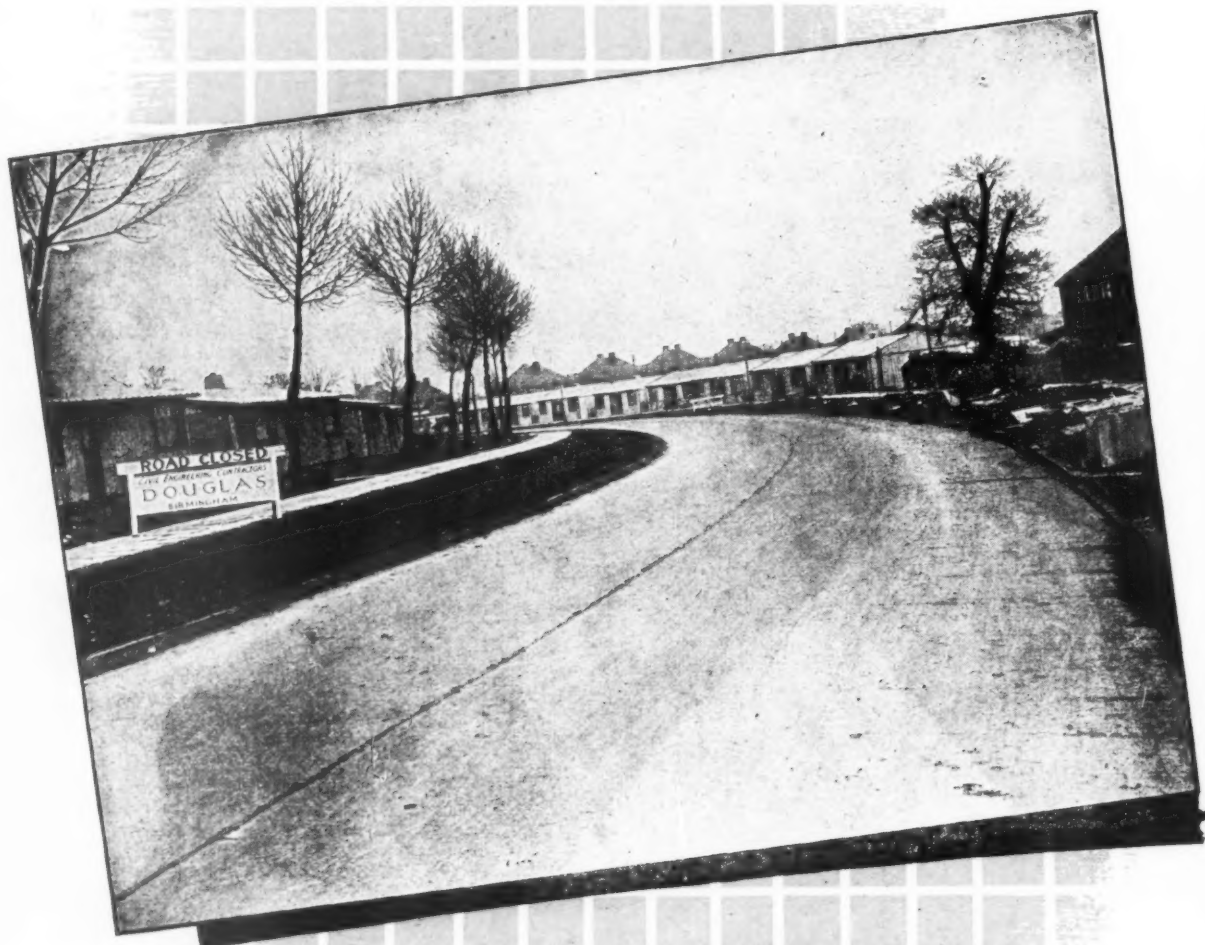
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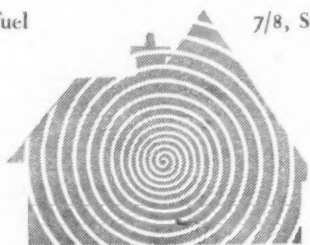
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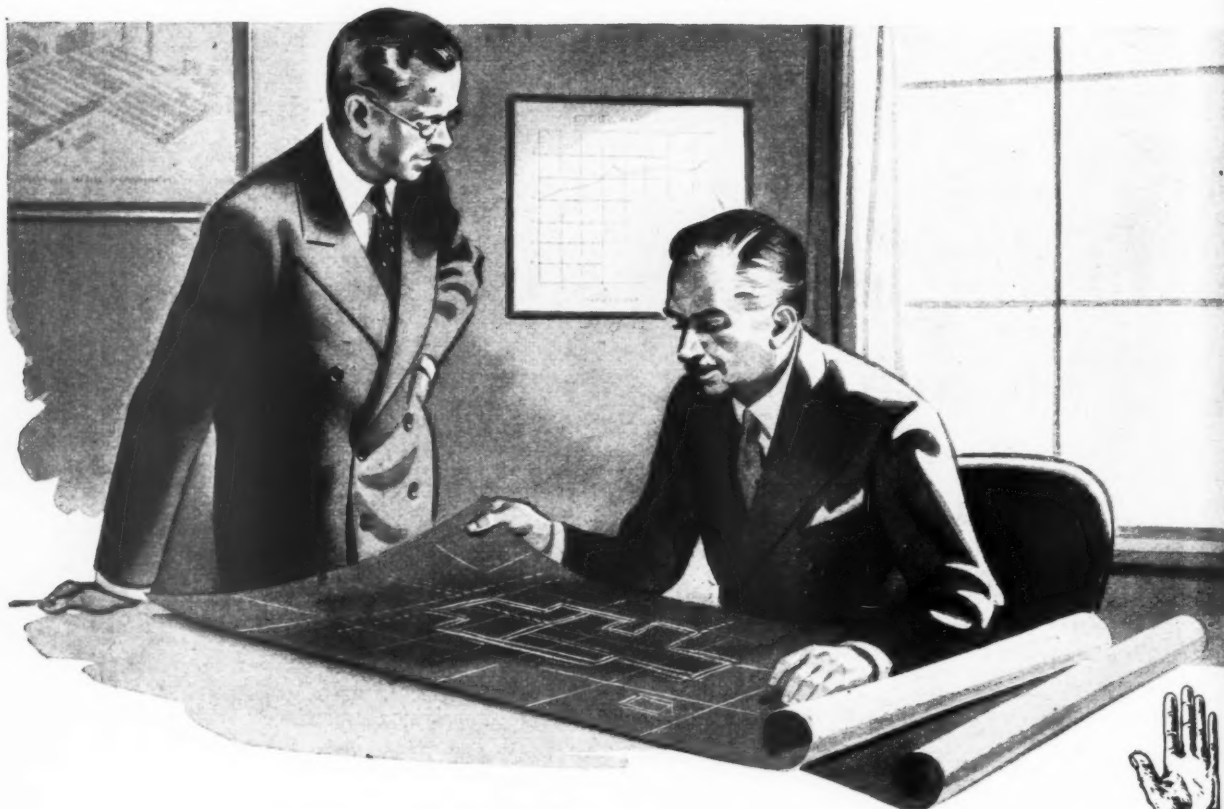
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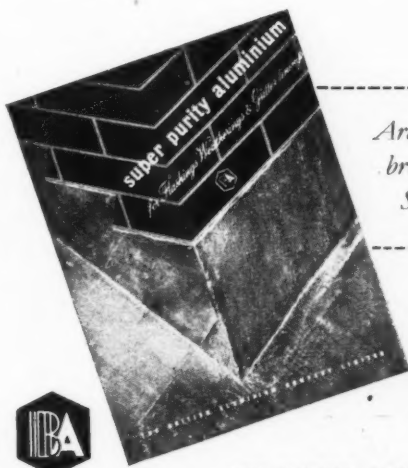
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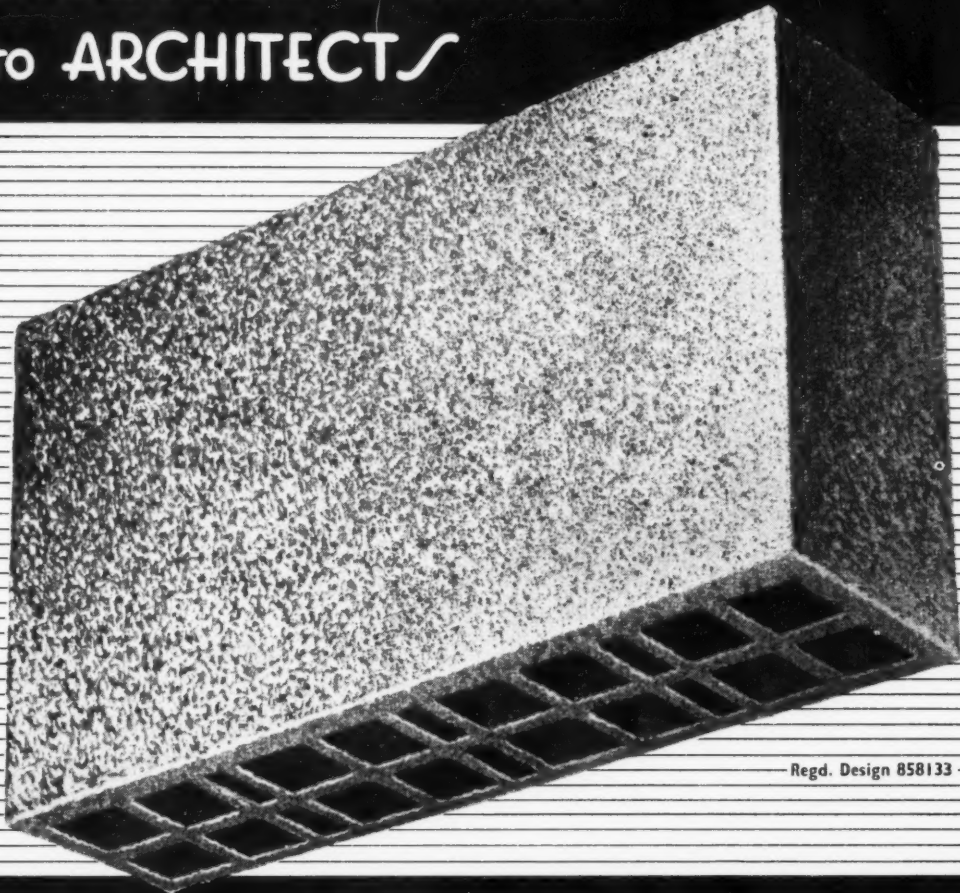


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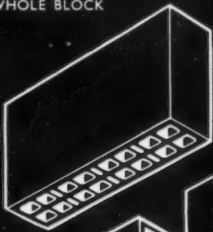
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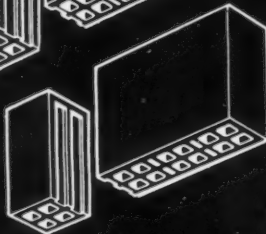


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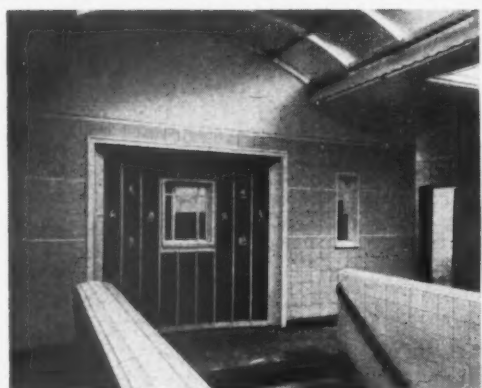


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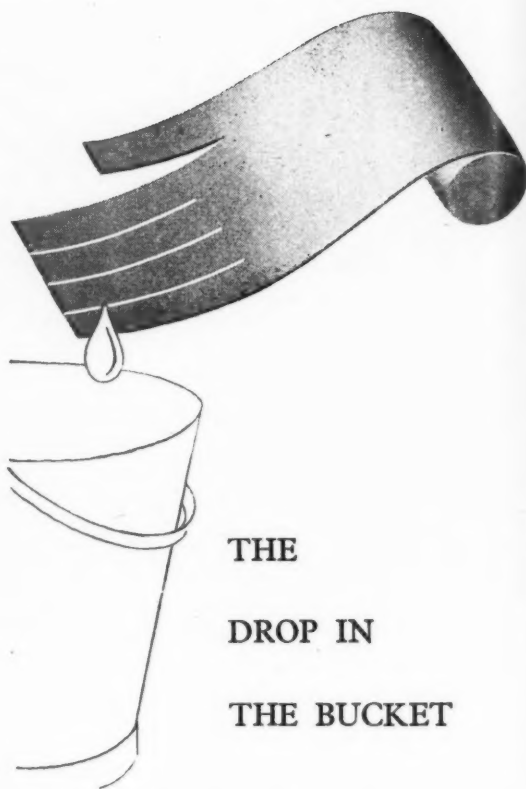
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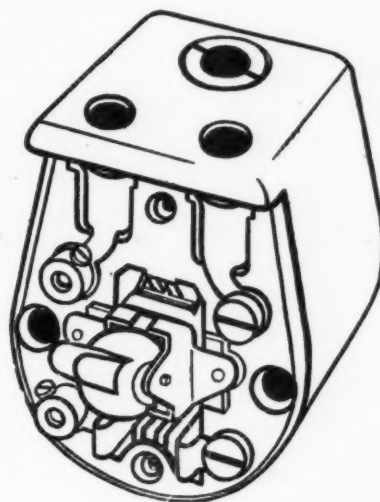
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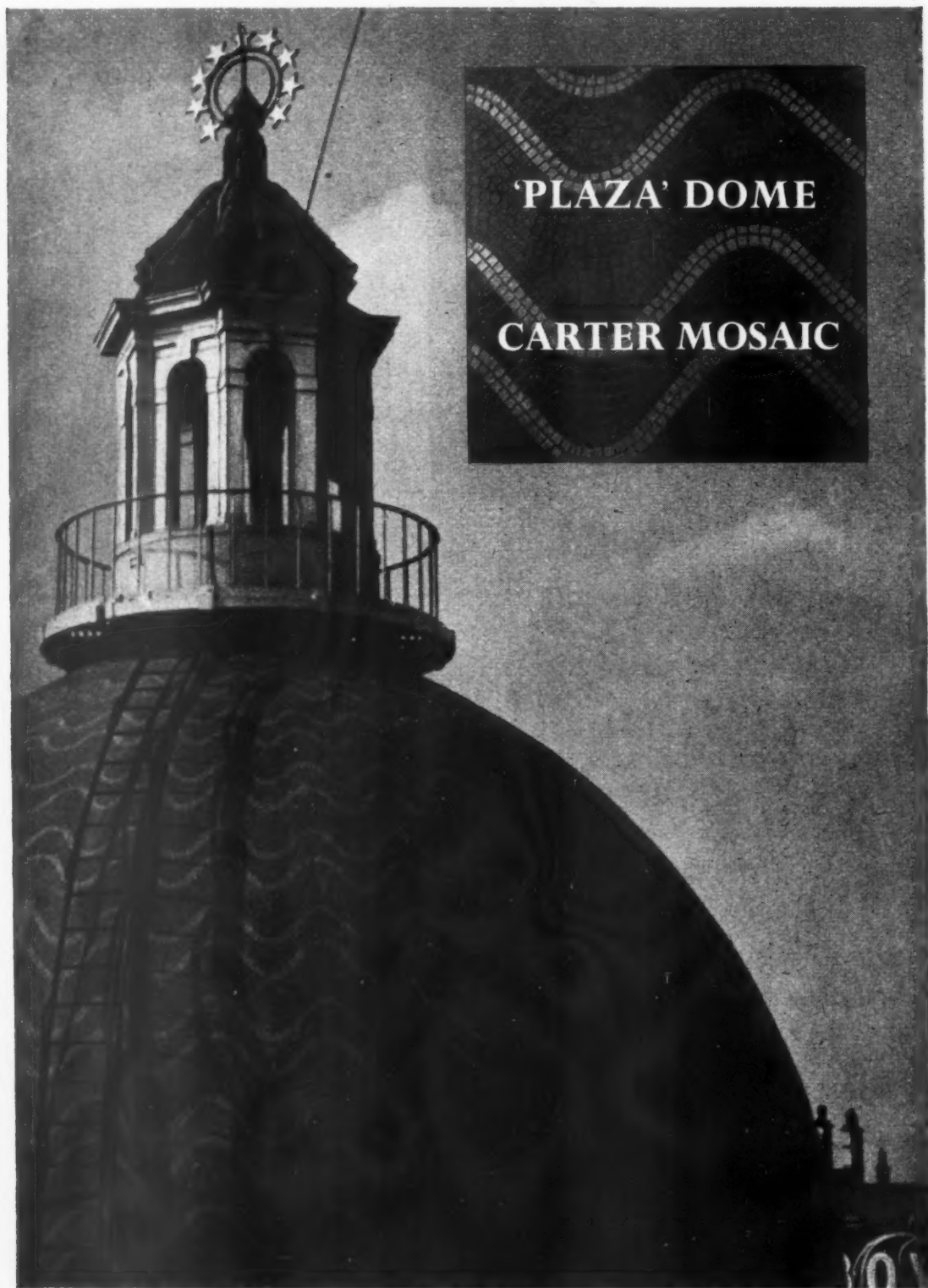
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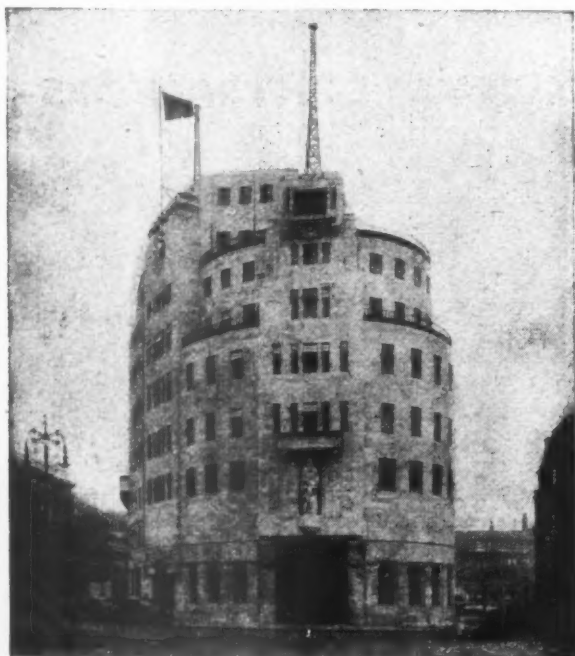
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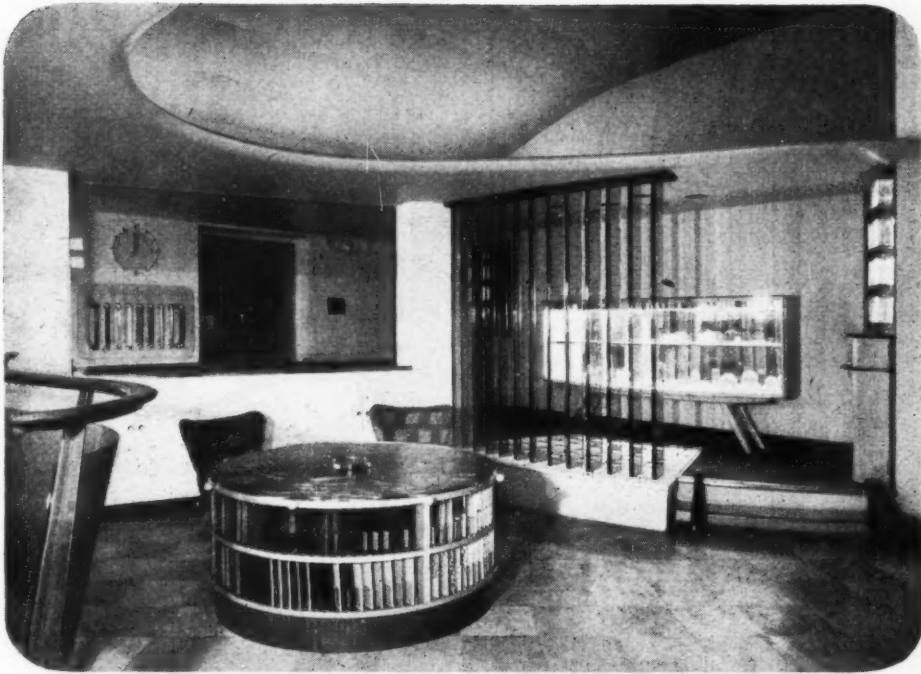
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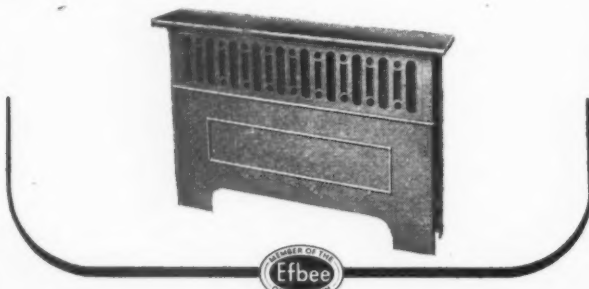
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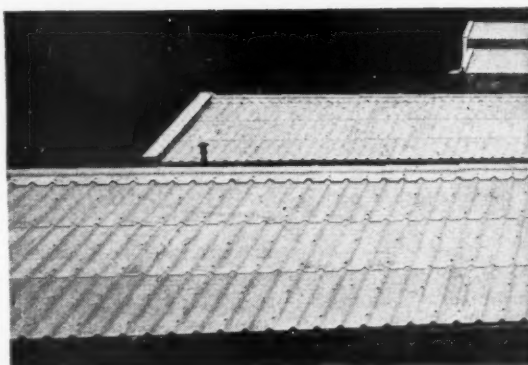
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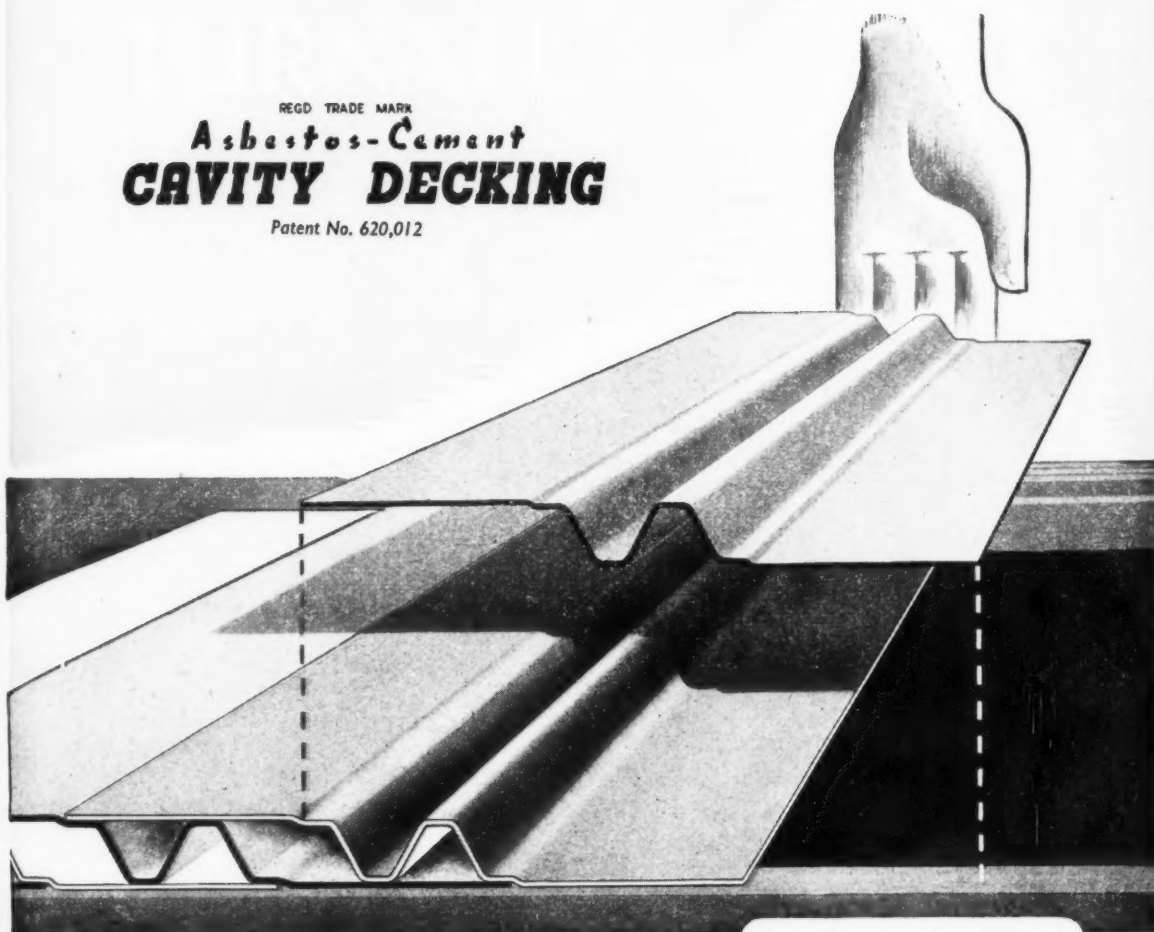
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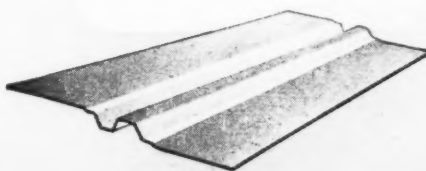
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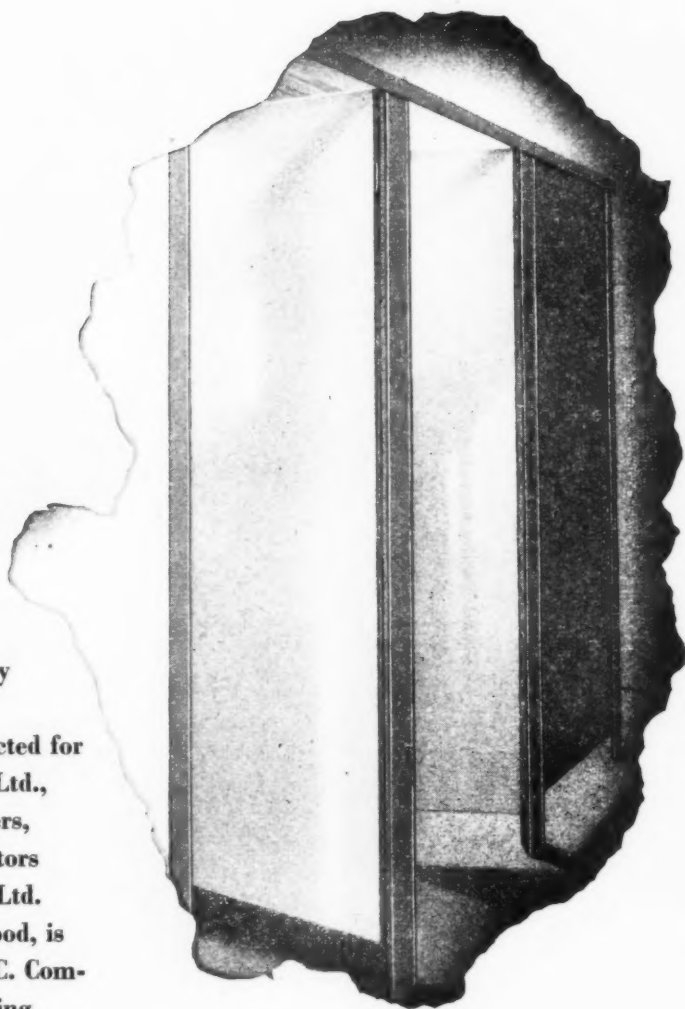
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THE ARCHITECTS' JOURNAL

No 2877 30 March 1950 VOL 111

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CAPITAL DEVELOPMENT

As long ago as the 17th century the poet, Abraham Cowley, was advocating the decentralization of London. The point he made was that if all the wicked men and the fools were to leave the "monster" city, there would be nothing left but a village the size of Islington. But the fools and the wicked men stayed on, multiplied and devised the suburban sprawl, the arterial death-trap and industrial chaos. And now, three hundred years later, with a London population of ten million—twenty times the size of the city that oppressed the poet—a move has been made towards controlling the growth of Britain's capital.

*

The story of what is being done as a result of the introduction of the two planning Acts, and the irresponsible

development which has led to their implementation, is one that should have more than a parochial interest. And when the story is told as well as it was by John Summerson and Peter Shephard, in their recent BBC talks—the first two in a series on the London plans—it is a pity that programme organizers should have decided that the subject is of limited interest. In spite of possible improvements in the reception of the Third Programme since the change of wavelengths, there are still large areas of the country which cannot receive its intellectual delights.

*

Apart from the fact that these talks are longer than those to which listeners to other Regions are accustomed, their subject is by no means as specialized as that of the average Third Programme feature. And, in fact, both John Summerson and Peter Shephard discussed their subject with great lucidity; the former sketching a clear historical map of the city, and the latter explaining why Greater London looked like "a splash of dirty liquid dropped from a great height," and why he believed a renaissance of English architecture was at hand.

*

It was surprising that Mr. Shephard did not offer more than a brief criticism of the slowness with which London's planning problems are being tackled. But perhaps criticism will come during the discussion which will conclude the series on April 5. Incidentally, I was surprised that both speakers referred, rather wistfully it seemed, to the merits of the casual and the empirical approach to planning. It is true, as they said, that the attitude which created Covent Garden, the Euston Road and Shaftesbury Avenue also gave us Hampstead Heath. And, of course, as my readers know, I am a supporter of Sharawaggi. Nevertheless, I can't help

feeling that the ordinary listener (if he listens to the Third) must have been confused at hearing the virtues of non-planning extolled in programmes that dealt essentially with the virtues of planning that will leave little scope for the creation of accidental delights.

SOUND PRACTICE

P. H. Parkin, an acoustics expert of BRS, recently filled the lecture hall of the RIBA with recorded sound. It was a most exciting display of technical efficiency on the part of what must be the youngest of the sciences. Instead of talking in technical terms, Mr. Parkin, when describing the sound insulating properties of various types of floors, simply flicked a switch and a loud-speaker took over from him. The audience, in the rôle of tortured tenants in the flat below, heard such effects as the sound of children playing ring o' roses overhead on an ordinary uncarpeted timber joist floor, and also the sound of a quiet and loud wireless through different degrees of insulation.

*

The effect was salutary. I am confident that any architects who heard the volume of noise that came through the walls and floors of a standard which is generally regarded accepted as good practice today, must have been appalled by the conditions to which, in all innocence, they may have subjected the hundreds of thousands of people who have been rehoused in flats and terraces since the war. The evening at the RIBA confirmed my view that standards of insulation will have to improve, and that architects are fortunate in having such an enterprising scientific team at BRS to show the profession the way to better things. Incidentally, the meeting endorsed my views that, for educating architects, practice beats theory every time. Congratulations to the team in

20th Century London



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SOUND SCOTTISH PRACTICE

It is not usual to hear praise given to Glasgow's tenements, but recently I heard two speakers extolling the attributes of those gaunt slums. The first was P. H. Parkin, during the talk I have just mentioned. There was only one aspect of the buildings which he commended, and that was the efficient sound resistance of the floors. The construction of them is exceptionally solid, as is so much of Scottish building, even to this day, and consists of 11 in. by 3 in. joists packed in between with ashes. The sound resistant properties of these floors have been subjected to tests by BRS, and their standard of insulation is remarkably high, better, even than the wooden floating floor resting on glass silk over concrete, with a suspended ceiling, which has been so much extolled recently.

*

The second pæan of praise for Glasgow tenements came from Richard Costain, the new principal of the LMBA, at a recent press conference. Here again the praise was given only for their structural qualities and not, needless to say, for planning or appearance. Richard Costain commended the thick stone walls and massive construction which has enabled them to stand, without the need of heavy maintenance, for so many years, but posed the question: do we want buildings to last more than sixty years today? This question has, of course, been asked before, but never successfully answered. It will not be possible to achieve such buildings structurally, surely, until materials have been found which keep out wind and rain, decibels and tennis balls for fifty-nine years and collapse into dust on the sixtieth.

*

The alternative is a change of attitude on the part of investors generally, as has happened, for instance, in America, where the probable economic life of a building is assessed in a much more ruthless way than over here. Americans are confident in their powers of foretelling the rapidity with which changing ways of living and



"We are not amused." Or are we? The corporation of Birmingham has decided to remove Queen Victoria's statue from Victoria Square, and to replace it with a new casting in bronze at the cost of £800, which the Birmingham Civic Society is providing. The statue of King Edward VII, which stands a few feet away, is being delegated to a new site in the suburbs. Can it be that the corporation has discovered the errors of duality? If this is so, a third statue might well have been placed in the square (which is being newly laid out for the '51 Festival) to resolve the other two. However, the Festival will have contributed something of immense value to the country if other cities which, like Birmingham, have never shown a keen interest in the visual aspects of their streets and buildings, also become conscious of the need to improve their appearance for the occasion.

working will render buildings uneconomic and obsolete. In England the tradition of building for posterity dies hard.

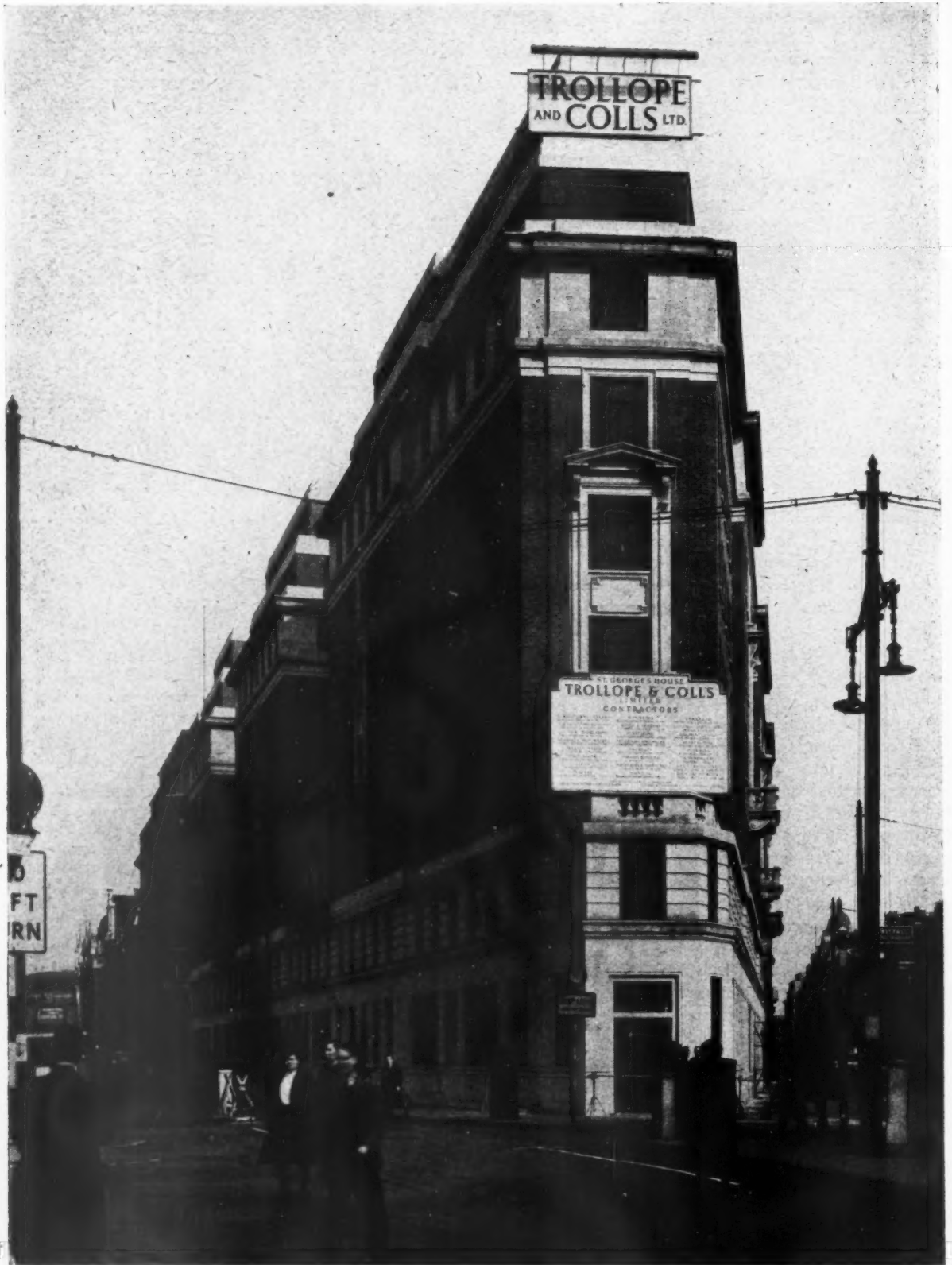
'51 FESTIVALS

If I had been giving a talk on the 1851 Exhibition I would have quailed at the sight of John Summerson in my audience. And I would have given up all hope on hearing that he was to propose the vote of thanks. This was not so with Mr. Gibbs-Smith, who showed he had expert knowledge of his subject when he spoke at the AA last week. He told us not only of the show, but also something of the way it was organized and of the incredible speed with which it was built. Apparently, it was started in September, 1850, and the exhibits were being moved in by mid-February of 1851.

This was a pleasant meeting with some amusing whimsy, including the expected contribution from Mr. Casson. The evening was, in fact, something of a relief after the endless discussions on education and training which have haunted the AA for many months.

BOOK OF THE YEAR

The first post-war edition of the AA Year Book has just been published. Those who remember the old pre-war diary and information book, bound in "stiff boards," will be a little disappointed by the modest format and paper cover of the present issue. At least it may be claimed that the 1950 edition can be carried in the pocket; an admirable thing for those who cannot remember off hand the names of the Arthur Cates prizewinners between



The Newest London Architecture

It is disappointing to find in how many cases the fine resolutions, made during the war years and after, to ensure that the rebuilding and development of blitzed London should be done only on the most enlightened and orderly lines, are ignored in practice. On page 394 of this issue of the JOURNAL is an article by J. M. Richards

in which he describes and criticizes a building enterprise sponsored by the Ministry of Works and known as the Lessor Scheme. Under this scheme a number of blocks of offices, destined to house Government departments, have been built on important sites recently. One of them, in New Oxford Street, by Lewis Solomon, is shown above.

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1888 and 1900. Slim though this volume is, one can while away an amusing half an hour with it by checking up the accuracy of the addresses of one's friends.

PLUMB CRAZY

The popular Press loves statistics. So does its readers for that matter. But I am sure that the Ministry of Works must have a better reason for instituting an inquiry into domestic hot water supply than to provide amusing headlines for strap-hangers. The first part of this inquiry has now been published, but I must confess that the thing that impressed me most was the fact that not one of the 6,000 householders who was asked whether he possessed a bath replied "don't know." For once, Dr. Gallup seems to have missed the floating population.

*

This survey tells me that the number of houses with no piped water varies from 7 per cent. to 10 per cent. That confirms my guess. It is interesting, I suppose, to learn that 46 per cent. of our houses have bathrooms and that only 41 per cent. have wash-hand basins, and astonishing to discover that 31 per cent. have portable baths. I am not surprised that housewives living in homes built since 1913 make less complaints about hot water than those in older houses, but I am certainly intrigued to read, under "Regional Differences," that "shared bathrooms are relatively common in London."

*

However, I still cannot see the purpose of this report. Let us suppose that a bath manufacturer obtains one in exchange for a shilling and reads that 12 per cent. of houses in Britain have no baths at all, and that in Scotland the corresponding figure for non-bathers is 35 per cent. What can he assume? Does this imply that there is a seller's market north of the border?

*

When a Press Officer in the Ministry was invited to explain the usefulness of the survey he was surprised that the questioner "had the nerve to ask." And there, I am afraid, I must leave the subject, confident of only one thing; that if all the statisticians were laid end to end there would be less statistics. Let that be our thought for the week.

ASTRAGAL

The Editors

CRITICISM OF BUILDINGS

THE recent controversy about LCC housing roused an interest in the subject of architectural criticism generally. There was a widely expressed wish for more frequent and more outspoken criticism of contemporary buildings, provided it was well informed, and the JOURNAL promised its readers that in future serious criticism should frequently find a place in its pages.

A building enterprise that clearly calls for critical discussion is the series of office blocks now being completed in various parts of London. They are known collectively as the Lessor Scheme, since all the office space is to be leased by the Ministry of Works for use by Government departments. The scheme is on a considerable scale, including as it does a large proportion of all the office accommodation now under construction. It is therefore a major contribution to the architecture of post-war London. In this issue the scheme is discussed, the basis on which it operates explained and the buildings resulting from it criticized.

Whether readers agree or not with the criticisms made in this article both of the designs and of the Ministry's policy concerning them, the JOURNAL is confident that they will approve of opinions—even, where necessary, adverse opinions—being freely expressed.

THE PROSPECTS FOR THE NEWLY QUALIFIED

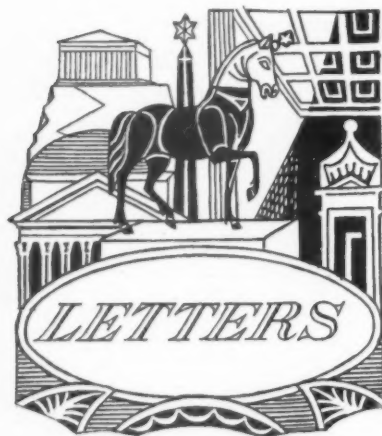
Over the past few weeks we have built up, stage by stage, a depressing picture of the probable state of the architectural profession in two or three years' time. The average salary of the architectural assistant today, whose yearly salary ranges from £250 to £1,000, is about £400. In a few years time there will be a few thousand more assistants on the labour market, the annual amount of money spent on building will not have increased and may well be less, and the era of unlikely-to-be-executed projects will have passed. Then the cold winds of depression will blow. The average salary will either drop from £400 to £203, as shown in last week's JOURNAL, or, a more likely event, about one half of the junior members of the profession will be out of work. This is the crux of the matter: if the amount of money spent on building is not doubled, then half of the assistants will be jobless.

A study of these startling conclusions shows that the position is extremely critical. Even if our calculations are twenty per cent. out the situation is still a very serious one. What steps, then, can be taken by the young assistant now on the threshold of his architectural career to ensure his continuing employment? The course of the cautious is simple, and lies in three alternatives, either to seek local authority or government employment, or to abandon architecture for another occupation such as industrial design, or lastly, to attempt to

pick up a living from the odd job world of the single man in private practice.

There are three alternatives available also for the opportunist. The first is to join a large successful office. This implies devoting himself to the task of becoming a first-class architectural assistant, and thus becoming indispensable, with the possible prospect of eventual partnership. The second alternative lies in specialization. With the whole building industry rapidly becoming a yet more complicated and exacting science there are obvious ways of specializing, either in building techniques, such as heating and ventilating, acoustics, reinforced concrete and so on; or in studying specialized types of buildings, such as hospitals, theatres, or schools.

The last alternative lies in forming a group practice, in several architects pooling their resources and sharing their liabilities and responsibilities on a group partnership basis. We have described recently how one well-known firm of architects carry out a group practice. It is our intention to show, in the near future, alternative methods of working on the same principle.



F. E. Shrosbree

G. Gneditch, A.R.I.B.A.

Gerald Haythornthwaite, Dip. Arch.,
A.R.I.B.A.

LCC Housing

SIR,—ASTRAGAL'S remarks in the JOURNAL recently, regarding the architectural staff engaged on LCC housing, reveal a grave misunderstanding of the true nature of the problem. The following important points must not be overlooked:—

1. Many of the unfortunate architects and assistants in the Valuer's Department were originally members of the Architect's staff and were seconded to the Valuer's staff when the Council made its ill-fated decision in 1945.

2. The use of the phrase "Better architecture is obtained by employing better architects" implies that bad architecture is obtained only by employing bad architects; it ignores the important question of the form

of organization in which architects produce architecture. Indeed, a major factor producing bad architecture—in LCC housing and anywhere else—is frustration.

3. The employing body cannot avoid its responsibility for the training of its unqualified staff. The LCC, to its credit, has a training scheme for junior clerical staff who wish to transfer to a professional section, but no such provision is made for unqualified architectural assistants obtaining employment with the Council.

Such a state of affairs cannot produce good architecture, whether it be for the LCC, any other public body, or a private firm, and to the degree that this factor has influenced LCC housing design it is obviously no solution to dismiss the unfortunate victims of the system, or lack of system, who (unless they are to starve) will probably still function in the same way elsewhere.

The ABT welcomes the change at County Hall but maintains that:—

1. There must be no dismissals. This would not exclude competition for the better jobs.

2. A programme of transference of work and staff from the Valuer's Department to the Architect's Department should be worked out and the staff informed so that they are not left completely in the dark as to their future as they are at present.

3. The higher standards of design must be sought in the organization of a department which stimulates responsibility and enthusiasm instead of creating a "Pyramid of Frustration." Such a policy would attract and hold the best type of recruit.

4. The LCC should set an example to all other authorities and firms in the facilities it gives its unqualified staff to receive part-time training of a high standard.

At the same time the ABT hopes that the members of the present Housing staff will not be misled into a campaign against architectural criticism, of which there is not nearly enough. Criticism, however, must be fair—private firms should be criticised as well as public departments—and should not be directed to condemn *en bloc* a whole body of people, large numbers of whom are

not even remotely responsible for the standard of design produced by the department in which they work.

F. E. SHROSBREE,
General Secretary,
ABT.

London.

Architectural Competitions

SIR,—Architectural competitions, at least for the time being, are occupying their legitimate place in the sphere of current architecture. That being so, it would seem churlish to throw bricks, cavil or otherwise complain, because everything in the garden is lovely. None the less, may I draw attention to two weeds which are receiving increasing cultivation?

The first is the habit of assessors of announcing in the professional and lay press the results of the competition before these are communicated to the competitors themselves. (I except the fortunate prize winners who couldn't care less either way). I may be hyper-sensitive and old-fashioned, but I resent, when reading the evening paper over someone else's shoulder, finding that I've failed again, without receiving any previous warning. May I repeat a statement frequently seen in the papers, in a more sombre but not entirely inept context?—"The next-of-kin have been informed."

The second weed is the form of presentation of competitors' drawings after the Assessors' awards have been made.

One appreciates that difficulties of space may sometimes cause cramped conditions of display. But the assessor and his clients know for some time before the exhibition how many drawings are to be shown and what space they will occupy, and it should be a point of honour with them that every competitor should have his scheme fairly displayed, whatever the administrative difficulties. There can surely be no excuse for the conditions which prevailed at a recent exhibition, when it was even impossible to understand the premiated designs because they were so appallingly hung, and it was futile to turn to the non-premiated schemes since only one drawing from each scheme picked at random, and without discernment, was "on the line," with no evidence of any reports whatever.

This sort of exhibition, fortunately not frequent, is unfair both to the competitor, who in the main works hard, and, even if he does not win, still has some pride in his scheme, and to the visitor, who is frequently either a disinterested though intelligently curious person, desirous of seeing all points of view, or a supporter of the hapless competitor, who is righteously indignant.

From whichever way one admires the garden, these weeds need rooting out.

London.

G. GNEDITCH.

Wasteful Building

SIR,—The scheme of Mountgrace Secondary School is described in your issue of February 23 as "the decentralization of the various units into separate zones with differing educational functions . . ."

Well sir, I've studied the plan carefully and all I can see is a scheme providing separate buildings for teaching different subjects. I wonder if that is what is meant? If so, I'm sure it would be better made plain, because it is wasteful of land, architecturally disruptive, and discomposing for teachers and scholars.

GERALD HAYTHORNTHWAITE.

Sheffield.

The EDITORS reserve the right to shorten letters from readers. Whenever possible, however, they are published in full.



ROME

Scholarship in architecture

The Faculty of Architecture of the British School at Rome have made certain important changes in the competition for the Rome Scholarship of 1951. Candidates will be admitted to the competition only if they have passed the final examination of the RIBA or one of its recognized equivalents. Applications for admission will be examined by the Faculty and not more than twelve candidates will be chosen to take part in the first stage of the competition, which will consist of a 32-hour "en loge" test to be held in London. On the result of this test will be chosen the candidates to compete in the final stage of the competition for which a separate programme will be set and in which there will be no "en loge" examination. Candidates will be given not more than twelve weeks to complete their designs in their own time and place.

Applications for admission to the competition must be sent not later than October 16, 1950, to the Hon. General Secretary, British School at Rome, 1, Lowther Gardens, Exhibition Road, London, S.W.7, from whom full particulars may be obtained.

COMPETITION

Alterations to club premises

Architects are invited to submit plans for alterations to the premises of the Comrades' Club, Whitley Bay, Northumberland. The architect of the accepted plan will receive a prize of £50. An outline of requirements may be had on application to the secretary of the club.

LEICESTER

"Unique facilities" at School of Art

The combination of facilities at the School of Architecture, Leicester College of Art, appeared to be quite unique, said Howard Robertson when he presented diplomas and intermediate certificates to the students of the school recently. From this combination, he said, might come the answer to the problem which has arisen as a result of the disintegration of the profession into specialists.

The architect too often designed for the benefit of his fellow architect. Today

students were impatient with architectural manners; they were too eager to express themselves in their designs rather than design for the public good. They should sink their own personality in favour of harmony, at least until they could produce buildings in this country to stand the English climate. The answer to this problem lay in the teaching of these things in the school.

TPI

Examination Results

The School of Planning and Research for Regional Development announces that on January 27 the external examiner of the Town Planning Institute gave his final award on the Theses so far submitted by members of the diploma course, 1948-49. The results are as follows: *Honours Diploma*, G. D. Frankish. *General Distinction*, D. P. Freeman; N. R. F. Collins. *Distinction in Theses*, E. Clunies-Ross; D. N. Gupta; H. M. Reid. *Pass*, R. E. Carter; J. A. Griffiths; K. Z. Hussain; D. A. W. Lovejoy; V. H. Naidu; Neroli Wilkins; V. W. Worley; J. P. Blockley; M. Kirsteen Borland; June Gardner; J. N. Graham; H. R. Hyne; R. R. Lockyer; H. V. Sprince.

MOTCP

Kent preservation order

The Minister of Town and Country Planning has confirmed an order submitted to him by the Kent County Council for the preservation of trees in 138 acres of woodland in the Sevenoaks Rural District. The trees to be protected include those in Hollows Wood, most of Pascals Wood and Longspring Wood, between Chelsfield and Shoreham, and Coneyearth Wood and Goss Bushes in the Parish of Shoreham. This application was the subject of a public inquiry held by the Ministry on January 25. The woods lie within the Metropolitan Green Belt as indicated in the Greater London Plan, and while it is not considered necessary for the County Council to acquire the land, in view of the control over development which has been established by the Town and Country Planning Act, 1947, it is thought desirable that felling shall be controlled and that where necessary replanting of any area felled shall take place.

LUTON

The Wernher Collection

The Wernher Collection at Luton Hoo, Luton, will be open to the public from May 4 on Mondays, Wednesdays, Thursdays and Saturdays from 11 a.m. to 6 p.m.

The contents of Luton Hoo, which was built by Robert Adam in 1762 for the Earl of Bute and was modernized inside in 1903, are mostly the collection of the late Sir Julius Wernher, the first Baronet. There are some 1,900 exhibits. These include pictures (Italian, German, Dutch, Flemish, Spanish and English); ivories, enamels and majolica, bronzes and silver work; French and English furniture, and Brussels, Gobelin, Beauvais and Fulham tapestries; French and German clocks, plate, Renaissance jewellery, Fabergé gems, and the Lady Ludlow collection of English porcelain.

Special arrangements will be made for art societies, groups of art students and school children, and a lecture room is available for meetings.

LIVERPOOL

House Building Programme

Liverpool's house building programme for the coming financial year is one of the heaviest it has contemplated, and in its capital account expenditure for the year the sum of £3,580,500 has been set aside. Of this sum £3,011,150 applies to permanent buildings, while in connection with this programme £349,350 will be spent on roads and sewers and £188,000 on the acquisition of sites.

During the year which ends on March 31 the permanent housing programme in the city has cost £2,451,185. Originally the sum of £4,127,100 had been set aside for this purpose, but the restrictions, etc., have been responsible for curtailment of the original programme.

OBITUARY

Wilfred Howard Robinson

We regret to announce the death, in his seventy-fourth year, of Major Wilfred Howard Robinson, a former county architect of Kent. Among buildings for which he was responsible was the Maidstone Grammar School for Boys and the Astor Avenue School for Boys at Dover. In 1904 he became Surveyor of Existing Buildings in the department of the Director of Education for Kent. Later he became the county's Educational Architect. In 1929 he became County Architect.

SCOTTISH NEWS

First hydro-electric scheme completed

The Loch Sloy hydro-electric project, the first constructional scheme of the North of Scotland Hydro-Electric Board, commenced production this month at Inveruglas.

Housing Survey Planned

A complete national survey of housing conditions is being planned in Scotland. There will be full consultation with local authorities about the methods of this survey, and it will be some considerable time before preparations can be completed. It will be concerned both with overcrowding and with the structural conditions of houses and will not be confined to families on the waiting lists.

The survey will be conducted on a uniform basis throughout Scotland, so that the results will not be affected by local differences in such matters as standards of structural fitness or qualifications for admission to waiting lists.

There have been a few local surveys of this kind since the war—notably in Edinburgh and Hamilton—and the experience gained from these will be used in planning the comprehensive survey.

Appointment of Glasgow city architect urged

As a vacancy has occurred in the Glasgow Corporation, owing to the retirement of the City Engineer and Master of Works, the council of the Glasgow Institute of Archi-

pects have advocated that the Corporation should now appoint a City Architect and re-allocate the duties of the Master of Works, City Engineer and possibly Housing Director.

Preservation of architects' work

The Glasgow Institute of Architects have put forward the suggestion that Cranston's Tea Rooms in Ingram Street, which is for sale, should be purchased by the Glasgow Corporation, thus preserving what is regarded as a perfect example of the work of the late Charles Rennie Mackintosh.

New president of Glasgow Institute of Architects

E. G. Wylie, of the firm of Wylie, Shanks and Wylie, the supervizing architect for Scottish Industrial Estates Ltd., has been elected president of the Glasgow Institute of Architects.

DIARY

Paris-London Exhibition. New trends in sculpture and painting represented by 16 young French and English Artists. New Burlington Galleries, Old Burlington Street, W.1. (Sponsor, ICA.) 10 a.m. - 6 p.m., daily. Tuesdays and Thursdays, 10 a.m. - 8 p.m. UNTIL APR. 4

Ideal Home Exhibition. Olympia, London. 9.30 a.m. to 9.30 p.m. (Sundays excepted). UNTIL APR. 1

BBC Third Programme Talks. *How Will the Plans Work.* (April 5. 9.30 p.m.) Prof. Holford. *Town Planning Since the War.* (April 9 and 13.) Prof. Gordon Stephenson. *Ebenezer Howard.* (April 18.) F. J. Osborne. APR. 5, 9, 13 AND 18

The Building (Safety, Health and Welfare) Regulations, 1948. W. D. Short. At Mutley Assembly Rooms, Mutley Plain, Plymouth. (Sponsor, MOW.) MAR. 30

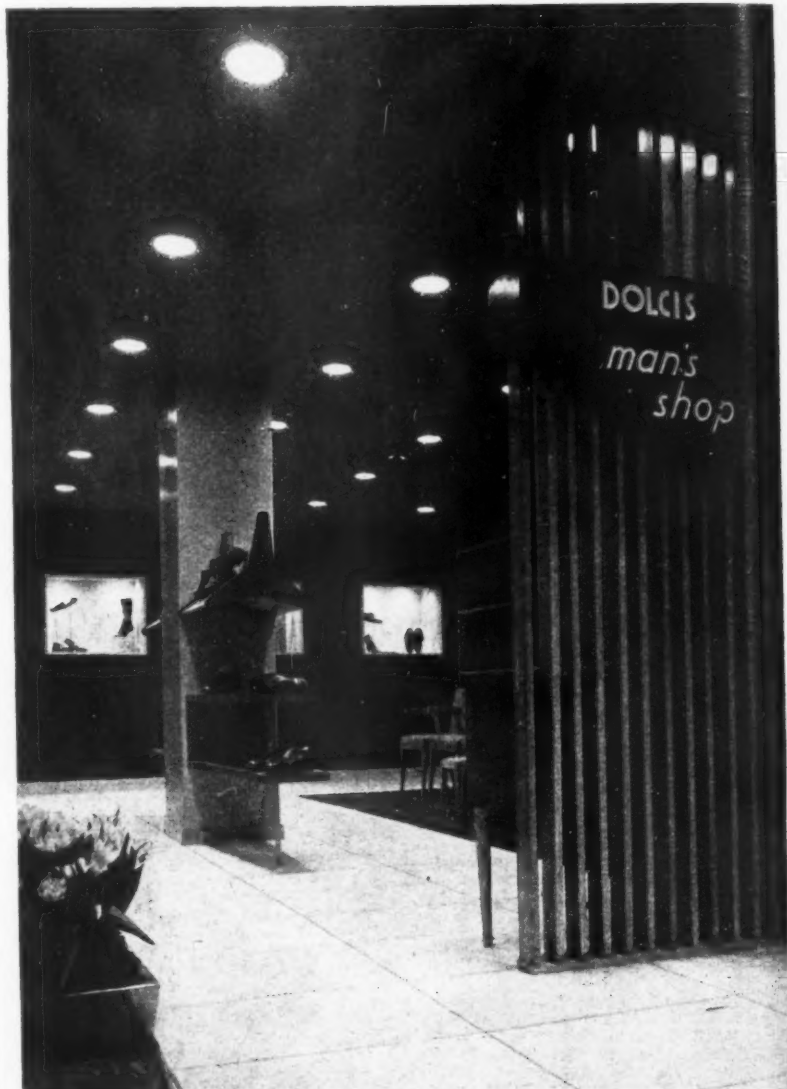
The Use of Colour to the Architect. R. S. Wilson. At St. Ermin's Hotel, Caxton Street, S.W.1. (Sponsor, IRA.) 6.30 pm. MAR. 31

The Manufacture, Properties and Application of Aluminium and its Alloys. Colin J. Smithells. At RSA, John Adam Street, Adelphi, W.C.2. 6 p.m. APR. 3

Land Surveyors and the Royal Institution of Chartered Surveyors. Major-General G. Cheetham. At 12, Great George Street, S.W.1. (Sponsor, RICS.) 5.30 p.m. APR. 3

Exhibition of 100 Years of Architecture in Wessex. Commemorating centenary of Bristol Society of Architecture, Bristol Museum and Art Gallery. APR. 3

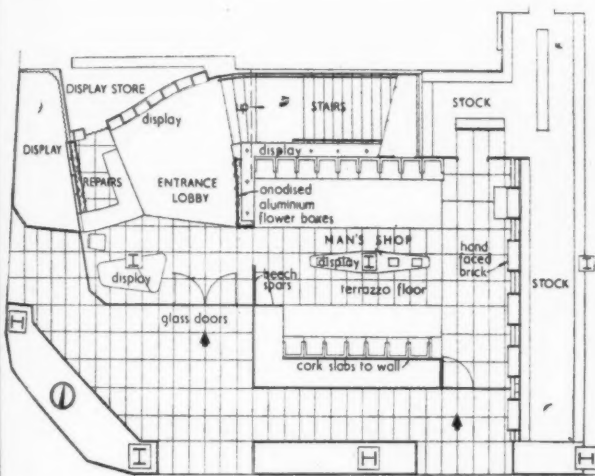
NEW INTERIOR FOR A SHOE SHOP



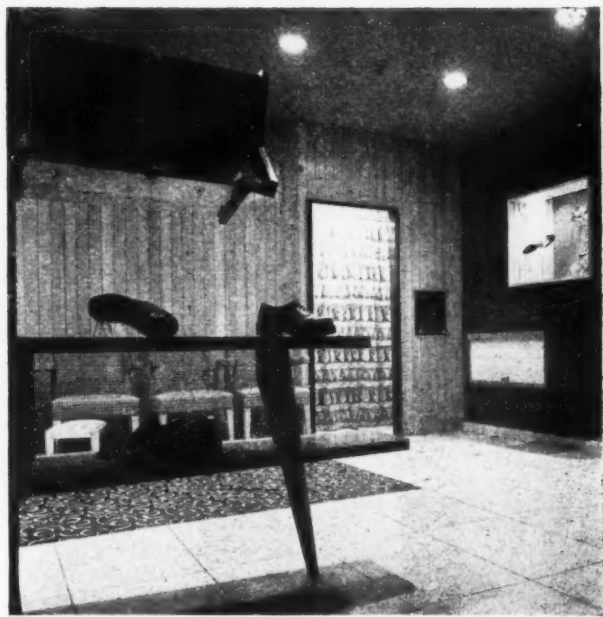
AT LEICESTER SQUARE, LONDON

The Dolcis shoe shop at 1-4 Leicester Square, London, has recently been replanned by Ellis E. Somake, staff architect to Messrs. Dolcis. The ground floor has been divided into two main areas : an entrance lobby and a man's shop. A false ceiling of fibrous plaster has been built, which is continued from the inside to the outer display area. One wall in the man's shop is faced with hand-made bricks bedded in coloured lime mortar with raked joints. The floor is of terrazzo squares with brass dividing strips. The floor in front of the two rows of chairs in the man's shop and in part of the entrance lobby is laid with carpet, which

has been inset. Woodwork is of sapelli mahogany and beech. The interior lighting is by means of recessed tungsten fittings. The ceiling is painted a dark wedgwood blue. The view, left, is of the man's shop ; bottom left, the entrance lobby from the man's shop ; bottom centre, the entrance to the man's shop ; bottom right, the doorway leading to the stock room ; below, the display stand, which partly screens the man's shop from the entrance lobby. The contractor for the shop fitting was Messrs. A. Davies and Co. Ltd. A list of sub-contractors appears on page 412.



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



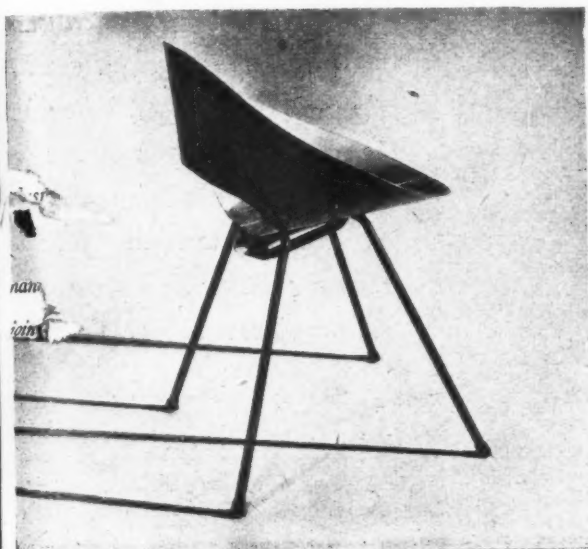
WINNING DESIGNS IN FURNITURE COMPETITION: SPO



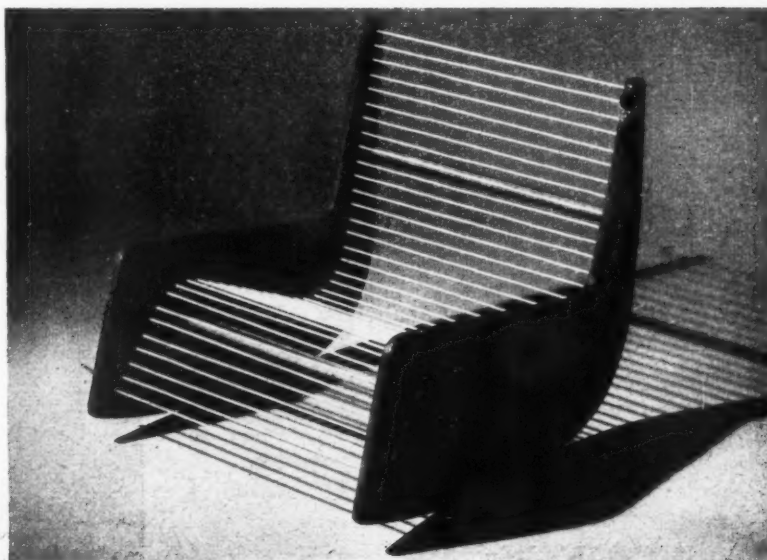
Illustrated here are some of the prizewinning entries to an International Low-Cost Furniture Design Competition, sponsored by the Museum of Modern Art and Museum Design Project, Inc., which will be exhibited in the Museum from May to July. The first prize in storage units was won by Clive Latimer and Robin Day of London. These units were redesigned by the prizewinners in collaboration with Edmond J. Spence, an American consulting engineer, to suit American production facilities. Adaptations of the design have also been made by Mr. Spence to provide American consumers with two of their apparent requirements; a projecting handle on each drawer and separate recessed legs on each cabinet. Both originals and adaptations are shown here:—Above: left, three storage units (original); right, an adaptation of one of them. Left, a five-drawer chest (original). Bottom: left, the adapted version of the chest; right, adaptation of desk. Opposite page: bottom, left, original desk. Honourable mention for a storage piece was given to Ernest Race, of London.



SPONSOR, MUSEUM OF MODERN ART, NEW YORK

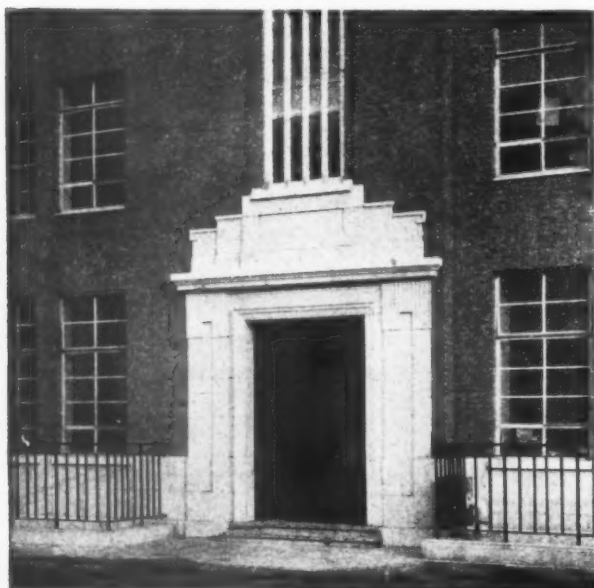


Above, chair by Don R. Knorr, of San Francisco, who shared first prize for seating units with George Leowauld of Berlin-Frohnau, whose design has not been manufactured. The chair above is constructed from a piece of flat sheet metal, cut to shape and bent around to meet itself in a seam in the seat of the chair. It thus provides "the complicated curves which conform to human anatomy." Above, right, a chair designed by Charles Eames and the University of California, Los Angeles Campus, Group. The designer of this moulded fibre glass chair shared second prize with David J. Pratt, of Chicago, who designed the chair on the right. This contains an inflated ring, separated into two parts, one for the seat and the other for the back. Below is the third prize winning design by Alexey Brodovitch, of New York City. It consists mainly of plastic covered resilient cord, flat plywood and dowel pins. The plywood parts are shaped to be cut from standard sheets with a minimum of waste.





Among the first projects to be completed under what is known in the Ministry of Works as the Lessor Scheme were two blocks of offices in Theobalds Road, Belfort House and Lacon House, both the designs of Major A. S. Ash. Above, the street frontage of the two blocks. Below, a detail of an entrance to Belfort House, showing characteristic design of the kind criticized in the accompanying article. Below right, a side view showing how the Holborn Borough Council flats, which lie to the north west of the two office blocks, are overshadowed by the high mass of Belfort House.



The JOURNAL has promised its readers to provide serious criticism of contemporary buildings when the opportunity occurs. Below is an outspoken comment on a series of office blocks now being completed in London which are radically changing the whole appearance of several famous thoroughfares.

J. M. RICHARDS

New London Office Buildings: the Lessor Scheme Critically Examined

No-one who has kept his eyes open in the streets of London during the past year can have failed to notice the large number of office blocks, most of which are now nearing completion, rising on prominent central sites: Theobalds Road, Shaftesbury Avenue, New Oxford Street and Kensington High Street among them. They may have been disconcerted—seeing how often the shortage of office accommodation is complained of—if they discovered that all these buildings, though put up by private enterprise, are destined to be occupied by Government departments for many years to come. But there is also a shortage of Government office accommodation, and the reasons for

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Offices in Rockley Road, Shepherd's Bush, designed by Colcutt and Hamb, another of the new office blocks severely criticized on the following pages both on design and town planning grounds.

and against giving priority to meeting this shortage are more a matter of administrative policy than an architectural question and need not be argued here.

An architectural issue of the first importance does nevertheless arise. It concerns the poor standard of design apparent in most of these buildings. They constitute, taken together, an immense building enterprise, they are sponsored in a general sense by the Government and they are changing the whole appearance of several famous London thoroughfares. Their undistinguished—and in some cases worse than undistinguished—standard of architecture, which represents a return to the taste associated with the kind of pre-war commercial enterprises we thought we have left behind for ever, is most disturbing.

The whole project, under which thirteen office blocks are now being built in London (eight of them are sufficiently advanced to be illustrated here) is known in the Ministry of Works as the

"Lessor Scheme." The origin of the scheme is not only the need for more office space for Government departments, but the Government's desire that private enterprise should invest its money in office buildings rather than that the Government should itself increase its capital expenditure. The scheme is on a very large scale; the thirteen blocks referred to provide a total floor space of 1,320,000 sq. ft. and, according to an answer given by the Minister of Works to a question asked in the House of Commons in December, the total value of licences granted to private contractors for building government offices under the Lessor Scheme (it includes thirty buildings throughout the country) is £7,576,000.

The procedure appears to be as follows. The Ministry of Works itself makes contact with financial and property interests who it thinks might be willing to invest in office property. Having done so, and having made it clear that the condition for granting a building licence is that the financiers

should agree to lease the accommodation to the Ministry for a given number of years—in most cases forty years—the Ministry then leaves it to the financiers, now the prospective lessors, to find a suitable site and to get out a scheme for building on it. The lessors then have to obtain the Ministry's approval of the accommodation to be provided and the rent to be charged. When agreement has been reached, the Ministry guarantees to lease the accommodation and arranges for the granting of a building licence. The lessors or their architect have to obtain the usual town planning and other consents, the Ministry of Works only coming into the picture again when it takes over the completed building in the capacity of lessee.

This procedure has obvious advantages from the Ministry's point of view, chiefly that it enables the Ministry to obtain accommodation, the extent, arrangement and cost of which is under its control at the out-



On this and the facing page are three more office blocks recently constructed under the Lessor Scheme. Above, St. Anselm's House in Davies Street, designed by Howard and Souster. Left, a detail of the main facade showing the heavy neo-classical treatment of the main entrance.

set, without having to invest public money or undertake building construction. It will presumably be free to release the accommodation for private commercial use at the end of the period of the lease or to discuss, as the sitting tenant, the retention of all or part of it for a further term.

But regarding the Ministry of Works as a servant of the public, the scheme has several disadvantages. This is not the place in which to discuss whatever inconsistency there may be in a Government that believes in national control in the public interest allying itself with purely commercial dealings in property, but the architectural implications of such a policy are clearly the concern of these pages.

The Lessor Scheme is conceived in a spirit of putting cheapness and expediency first—of driving a good bargain from the point of view of getting a large square footage of accommodation for a reasonable rent in a short time. There is no overall planning of

sites and no consideration of the overall effect on the architecture of London. To take the more strictly architectural points first, the Ministry of Works leaves the appointment of an architect in the hands of the lessors and exercises no supervision of his efforts. It takes no responsibility—and seems to take no interest—in the standard of design exhibited in the buildings put up under this scheme.

That this is so is only too clear from the results. The photographs on these pages must be left to tell their dismal story (I am speaking for the moment purely from an aesthetic point of view). Some parts of the story, as the photographs show, are less disconcerting than others. The largest building of the lot, Allen House, Kensington High Street (at the Olympia end, just before the railway bridge), for example, is more restrained and less heavy-handed than the same architect's two monster blocks in Theobalds Road. (This particular architect, incidentally, must

be given credit for the remarkable speed with which his buildings have gone up). Then the block in Lower Regent Street is obviously more acceptable, because it is detailed with some reticence and shows respect for the unity of the street, than the one in Shepherd's Bush, or the vast wedge-shaped building in New Oxford Street with its clumsy display of period architectural trimmings. But that is the best that can be said.

Criticism of design is of course a matter of opinion. Some may like the design of these buildings, and if they do they will be entitled to say so. But this is a bigger issue than that of London suddenly acquiring a number of office buildings that turn out to be disappointing aesthetically. We are used to such disappointments in the rough and tumble of commercial life, though fortunately they do not often happen on this scale. The scheme under discussion, however, represents an attempt to increase



Above, Nos. 5-11, Lower Regent Street, designed by Wimperis, Simpson and Guthrie. Right, a detail of Nos. 77-79, New Oxford Street, designed by Lewis Solomon. A general view of this block is given on page 386. The article below refers to its "clumsy display of period architectural trimmings."

Government office accommodation sponsored by the Ministry of Works, who cannot disclaim aesthetic responsibility. The Ministry may protest that these buildings are put up by private enterprise and designed by privately appointed architects. But the buildings would have had no chance of coming into existence except for the Ministry, which has granted licences for them at a time when office building projects do not usually get licences. However they are financed they are in effect, at least for the next forty years, Government buildings and will be closely identified with the Government departments working in them.

Nevertheless, they completely fail to support the high standard of design that the Government claims to aim at. It is little short of tragic at a time when the central Government takes the step of setting up a Council of Industrial Design, fosters so bold an enterprise as the new towns, and is itself

a patron of progressive architecture at the 1951 festival, that the Ministry responsible for Government architecture should sponsor an enterprise for the housing of thousands of its officials for years to come, which makes it quite clear that the appearance of the buildings is a matter of no concern in the Ministry and which—instead of setting a lead to the public—clearly takes several steps backward.

It is not only in appearance but also in planning that the scheme is seriously at fault. It would have been easy for the Ministry, if it had any considerations in mind besides cheapness and expediency, to have made the Lessor Scheme a model of carefully thought out office development and a contribution to the improvement of London. The several million pounds involved, for example, could have been spent in rebuilding a whole section of the City, where there are plenty of war-damaged sites grouped

together, in a co-ordinated scheme with provision, if necessary, for its eventual return to private ownership; or a planned distribution of offices in the suburbs could have saved travel time and transport congestion. The Ministry could have consulted with the appropriate authorities on sites and densities (and, incidentally, examined the architects' plans at appropriate stages so as to ensure consistency and dignity in the designs), but it has done none of these things. The sites selected follow no planning pattern, except the accidents of war-damage or the chance existence of pre-war clearances.

One example of bad siting is outstanding: the two Theobalds Road blocks. They not only ruin the outlook of the Holborn Borough Council flats nearby, but make their density—which would have been high enough on an open site—far too high when thus hedged in by tall buildings. It should be said that this scheme was



Above, No. 151, Shaftesbury Avenue; below, Allen House, Kensington High Street. Both buildings were designed by Major A. S. Ash. Allen House is the largest block of offices to be built under the Lessor Scheme.



passed before the LCC acquired its present planning powers, and would probably not be permitted now. But that does not absolve the Ministry of Works from blame for having made possible a building that so clearly breaks many of the rules of good planning. There is surely a moral obligation for a Ministry to observe the planning standards accepted in these days as desirable, even though a different Ministry has charge of planning administration.

A further practical argument against the haphazard nature of the Lessor Scheme is that the architects have been compelled to design the buildings with no knowledge of which Government department is to occupy which block. Any special requirements have usually been decided upon after virtual completion of the building, resulting in delays and extra expenditure while internal partitions are altered.

The faults of the Lessor Scheme have not gone wholly unobserved. From several public bodies there has been a certain amount of protest at what is being done, but without effect. Those of the buildings that had not been approved before the LCC acquired its present planning powers have naturally been scrutinized by the Council's planning officers, and attempts have no doubt been made by them to get the designs improved. In the case of the building in Rockley Road, Shepherd's Bush, the plans were turned down altogether by the LCC on grounds of wrong siting. It occupies part of a disused railway cutting in the middle of a residential area which was not considered suitable for high-density development (although a high block of flats had already been permitted a little further west), or for development of a non-residential kind. An appeal to the Ministry of Town and Country Planning resulted nevertheless in the LCC being overruled. The design of at least one of these office blocks was submitted to and turned down by the Royal Fine Art Commission who have, however, no power to prevent a design from being executed if official consents are given.

There may be various opinions on the merits of the buildings illustrated here, but it can hardly be claimed that as a group they represent a contribution to better architecture in London. If a Government department, in sponsoring a vast building scheme, cannot ensure that it is so, who can? These particular buildings are now under way, but the Lessor Scheme should be reviewed immediately and either brought to a close or so amended that good design is demanded as the price of a Government sponsored licence, and as something quite as important as cheapness and convenience.

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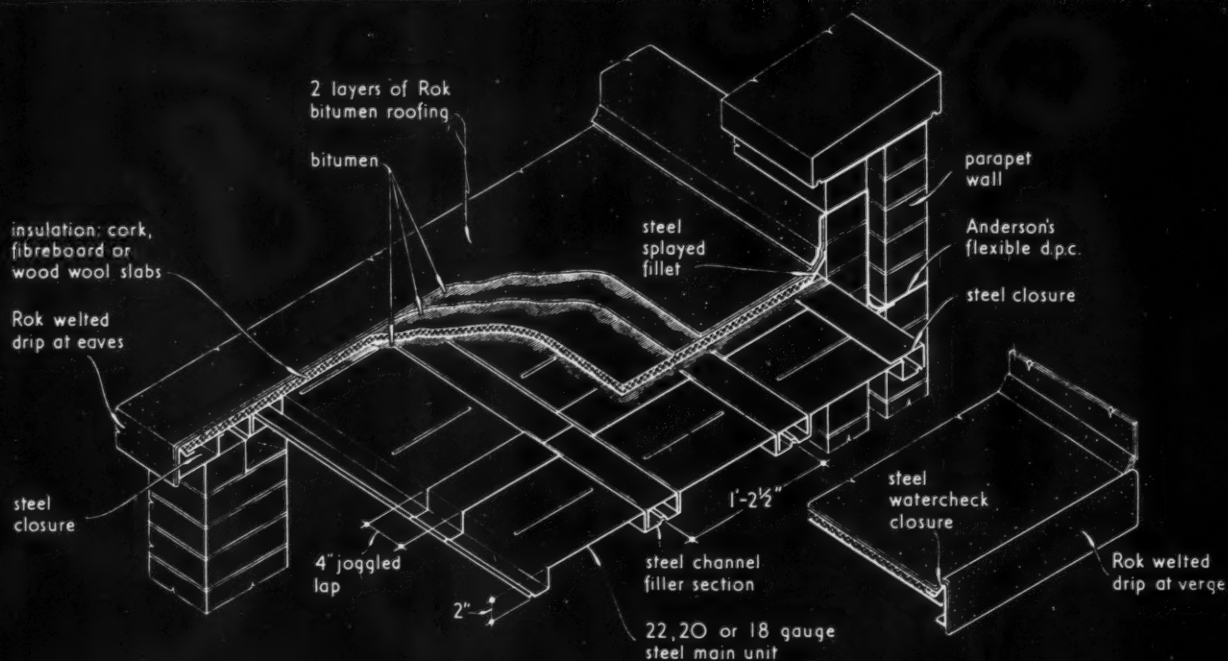
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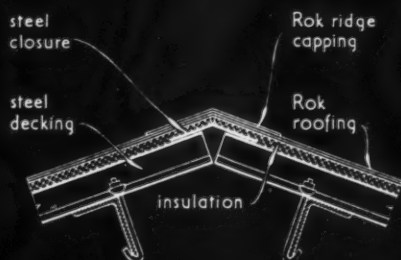
ROOFS COMPOSITE

20.Z6

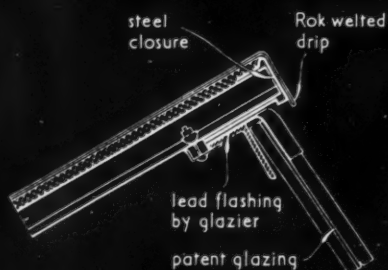
The Architects' Journal Library of Information Sheets 261. Editor: Cotterell Butler, A.R.T.B.A.



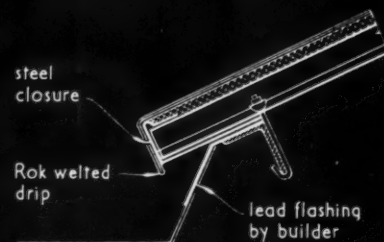
GENERAL ASSEMBLY OF ROOF SHOWING TYPICAL TREATMENTS AT PARAPET WALL, VERGE AND EAVES.



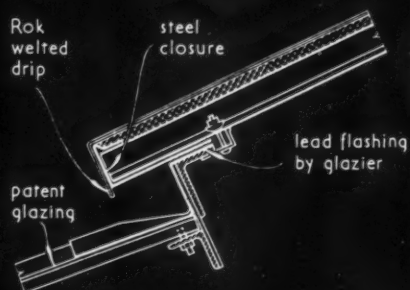
RIDGE (PITCHED ROOF).



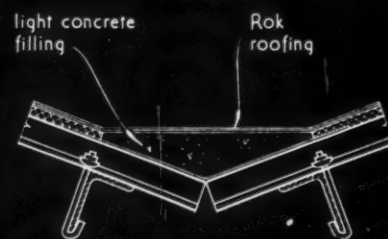
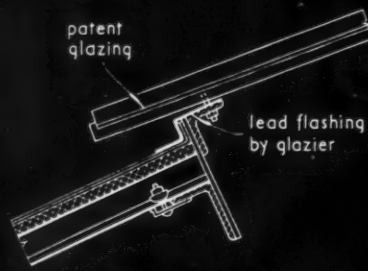
RIDGE (NORTHLIGHT).



EAVES GUTTER.



ROOFLIGHTS: FINISHES ABOVE AND BELOW GLAZING.



VALLEY GUTTER.

20.Z6 'THERMOSTEEL' INSULATED STEEL ROOF DECKING

This Sheet describes a composite roof built up from mild steel decking, rigid insulation and Rok bitumen roofing which is adaptable to flat, pitched or vertical constructions. The system consists of a steel deck formed of inverted channel main units with interlocking side corrugations, reinforced with channel filler sections bolted in position. The steel deck is first fitted in position and secured to steelwork or other supports with hook bolts or cleats. A layer of insulation board, cork or wood-wool slab and two layers of Rok bitumen roofing bonded to each other and to the decking with hot bitumen complete the roof. The total weight of the roof is 5lb./sq. ft. using 22 gauge decking, 5½lb./sq. ft. using 20 gauge decking and 6½lb./sq. ft. using 18 gauge decking.

Thermosteel Decking

Characteristics: The characteristics of a 12 in. width of the steel decking are given in the following table:

Gauge	Area (sq. in.)	Moment of inertia (in. ⁴)	Section modulus (in. ³)
22	0.766	0.483	0.371
20	0.908	0.575	0.443
18	1.078	0.691	0.535

Weight: The following tables give the gauges and weights of decking for flat and pitched roofs:

Flat roofs:

Centres of main structural supports	Steel decking only	
	Gauge	Wt. sq. ft.
Up to 7 ft.	22	2½ lb.
7 ft. to 9 ft.	20	3½ lb.
9 ft. to 10 ft.	18	4 lb.

Pitched roofs:

Centres of main structural supports	Steel decking only	
	Gauge	Wt. sq. ft.
Up to 7 ft.	22	2½ lb.
7 ft. to 10 ft.	20	3½ lb.

Size: The deck units have an effective covering width of 1 ft. 2½ in., are 2 in. deep and are supplied in lengths of up to 10 ft.

Joints: One end of each main unit is joggled across its full width to provide an overlap of 4 in. The joints are arranged to occur over the main structural supports.

Closure Pieces

Standard mild steel closure pieces are available for finishes at eaves, verges, walls, lights, gutters, etc.

Safe Load-Span Table

The following table is based on tests carried out on a complete roof section of steel deck, insulation board and two layers of bitumen roofing. The figures allow for a deflection not exceeding 1/250 span. The loads shown are dead plus live (i.e. deduct weight of roof to ascertain maximum live loads permissible).

Span (ft.)	Maximum safe load (lb. sq. ft.)		
	22 g.	20 g.	18 g.
5	131	157	189
6	103	124	150
7	75	91	111
8	58	70	85
9	41	50	61
10	30	38	45

Thermal Transmittance

The thermal transmittance (U) value for the complete roof, without ceiling below, using ½ in. insulation board is 0.36 B.th.u. sq. ft./hr./° F.

Fire Resistance

The requirements of standard V construction of the Fire Office's Committee are provided for with Thermosteel.

Finish

The steel deck units are dipped in red oxide paint and stove dried which ensures good protection and a suitable base for additional painting. Additional protection is given to the inner surfaces of the decking ribs which are heavily coated with bituminous paint as erection proceeds.

Compiled from information supplied by:

D. Anderson & Son Ltd.

Head Office: Stretford, Manchester.
 Telephone: Longford 1113.
 Telegrams: Roofing Stretford.
 London Office: Roach Road, Old Ford, E.3.
 Telephone: Amherst 3214.
 Birmingham Office: Suffolk House, Suffolk Street, 1.
 Telephone: Midland 4988.
 Nottingham Office: 4, Low Pavement.
 Telephone: Nottingham 45165.
 Leeds Office: 25, Bond Street, 1.
 Telephone: Leeds 21403.
 Glasgow Office: Queen Elizabeth Avenue, Hillington, S.W.2.
 Telephone: Halfway 2514.
 Belfast Office: Short Strand.
 Telephone: Belfast 57143.

BUILDING SCIENCE MECHANICS

2.B.3

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type of beam and type of loading	bending moment diagram	maximum bending moment M	shear diagram	reactions R_A and R_B	maximum deflection δ
		$M = -\frac{3WL}{16}$ $M_d = +\frac{5WL}{32}$ $a = 0.5L$		$R_A = \frac{11W}{16}$ $R_B = \frac{5W}{16}$	$\delta = \frac{3.58WL^3}{384EI}$ at $d = 0.55L$
		$M = \frac{Wab(L+b)}{2L^2}$ $M_d = \frac{Wa^2b(2a+3b)}{2L^3}$ $M > M_d$ if $a < 0.58L$		$R_A = \frac{Wb(3L^2-b^2)}{2L^3}$ $R_B = \frac{Wa^2(2a+3b)}{2L^3}$	with $a \geq 0.58L$ $\delta = \frac{Wa^3b(L+b)^3}{3EI(3L^2+b^2)^2}$ at $d = \frac{2L(L^2-b^2)}{3L^2+b^2}$
		$M = \frac{WL}{8}$ $M_d = \frac{9WL}{128}$ $a = \frac{5L}{8}$		$R_A = \frac{5W}{8}$ $R_B = \frac{3W}{8}$	$\delta = \frac{2.08WL^3}{384EI}$ at $d = 0.5785L$
		$M = \frac{WL}{2}$		$R_A = W$	$\delta = \frac{WL^3}{8EI}$
		$M = Wa$		$R_A = W$	$\delta = \frac{Wa^2(3L-a)}{6EI}$
		$M = \frac{WL}{12}$ $M_d = \frac{WL}{24}$ $a = \frac{L}{2}$		$R_A = R_B = \frac{W}{2}$	$\delta = \frac{WL^3}{384EI}$
		$M = \frac{5WL}{48}$ $M_d = \frac{WL}{16}$		$R_A = R_B = \frac{W}{2}$	$\delta = \frac{1.4WL^3}{384EI}$
		$M_d = \frac{WL}{15}$ $M_b = \frac{WL}{10}$ $M_c = \frac{WL}{23}$ $c = 0.5477L$		$R_A = \frac{3W}{10}$ $R_B = \frac{7W}{10}$	$\delta = \frac{WL^3}{384EI}$ at $d = 0.5247L$
		$M_d = M_b = M_c$ $= \frac{WL}{8}$		$R_A = R_B = \frac{W}{2}$	$\delta = \frac{WL^3}{192EI}$
		$M_d = \frac{Wab^2}{L^2}$ $M_b = \frac{Wa^2b}{L^2}$ $M_c = \frac{2Wa^2b^2}{L^3}$		$R_A = \frac{Wb^2(L+2a)}{L^3}$ $R_B = \frac{Wa^2(L+2b)}{L^3}$	with $a \geq b$ $\delta = \frac{2Wa^3b^2}{3(L+2a)^2EI}$ at $d = \frac{2aL}{L+2a}$

2.B3 BEAM CALCULATIONS FOR VARIOUS CONDITIONS OF LOADING

This Sheet sets out the formulæ for beam calculations for various conditions of loading. It deals with beams simply supported at one end and fixed at the other, cantilever beams and beams fixed at both ends. Sheet 2.B2 deals with beams simply supported with distributed loads and beams simply supported with point loads.

Assumptions, Symbols and Convention of Signs

The beam is assumed to have the same cross section throughout its length. W is the total superimposed weight. The dead weight of the beam has been neglected; for long spans it should be taken into account by applying the formulæ for uniformly distributed load as given in the table.

Symbols: The symbols and the nomenclature conform to B.S. 560: 1934 *Engineering Symbols and Abbreviations*, Amendment PD 396, September, 1945.

Convention of signs: A positive bending moment produces tension on the underside and compression on the top of a beam. A negative bending moment produces compression on the underside and tension on the top of a beam.

In the bending moment diagrams the positive bending moment is shown below the horizontal line and the negative bending moment is shown above.

Procedure for Beam Calculations

Procedure is as follows:

1. Determine the span of the beam, the type of support (simply supported, fixed at one or both ends,

cantilever, etc.), the type of loading (distributed or point loads).

2. Select from the table the type of beam, with its maximum bending moment and shear forces.

3. Substitute the numerical values for span L and total load W into the formulæ for M and $R_A (R_B)$.

4. Calculate the required section modulus using the formula $Z = \frac{M}{f}$ (where f is the permissible working stress in bending for the material of the beam).

5. Select the section which has a Z -value not smaller than that given by (4). (Z -values are given in various handbooks.)

6. Check this section for shear and deflection using the formulæ on the face of this Sheet.

Modulus of Elasticity (E) for Different Materials

The data given in this Sheet apply equally to any material, e.g., steel, timber, concrete, light alloys. The modulus of elasticity (E) or Young's modulus has, however, a different value for different materials, e.g.:

Steel	$E = 30$ million lb./sq. in.
Concrete	$E = 2$ million lb./sq. in.
Timber	$E = 1.2$ million lb./sq. in.
Light alloys	$E = 10$ million lb./sq. in.

These E -values are required when calculating the deflection of the beam from the formula in the last column.

TRAVEL BUREAU

in NORTHUMBERLAND AVENUE, W.C.2
designed by STEIN FINNE

The original entrance hall of the Grand Hotel, Northumberland Avenue, has been converted into a travel bureau primarily for tourists to Scandinavia. It has been designed by a student now in his fifth year at the Architectural Association School of Architecture. The clients did not require a large inquiry area as most of their business is done by post, but it was necessary to add a mezzanine floor for additional office space and the 20-ft. high ceiling made this possible.

The main counter and ticket office





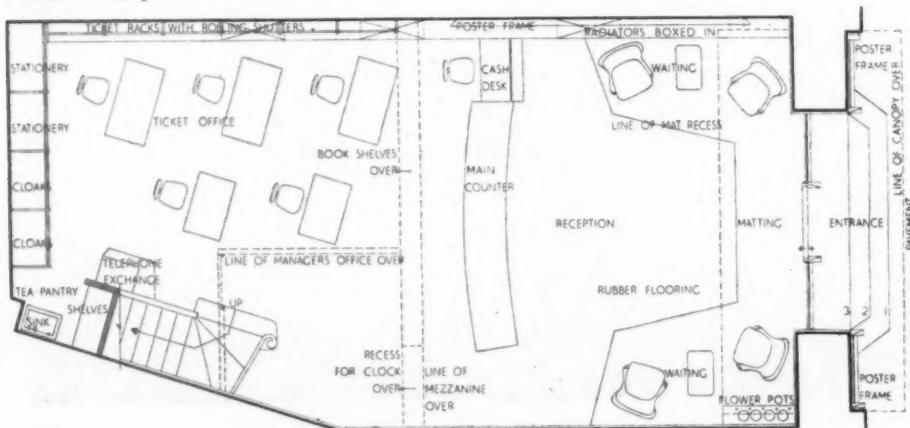
Left, a corner beside the entrance showing birch wall panelling with mahogany strips. Below, the entrance seen from Northumberland Avenue.

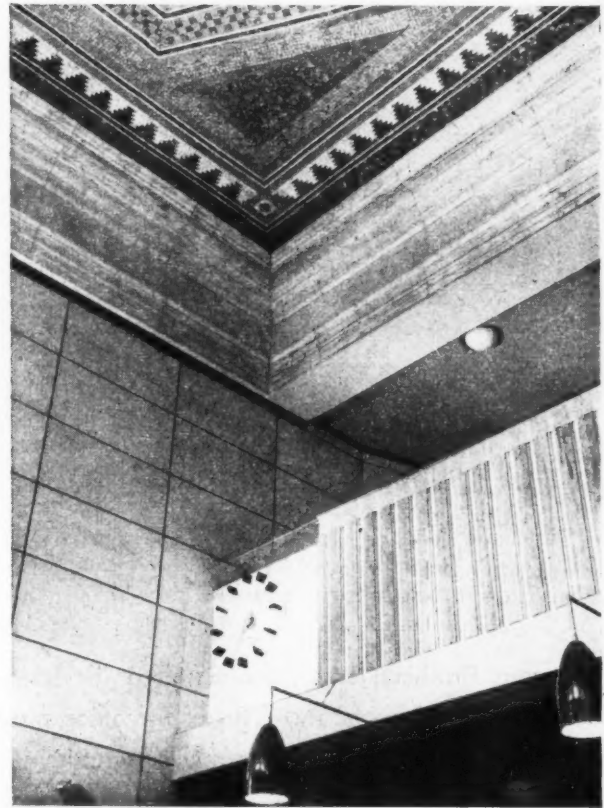
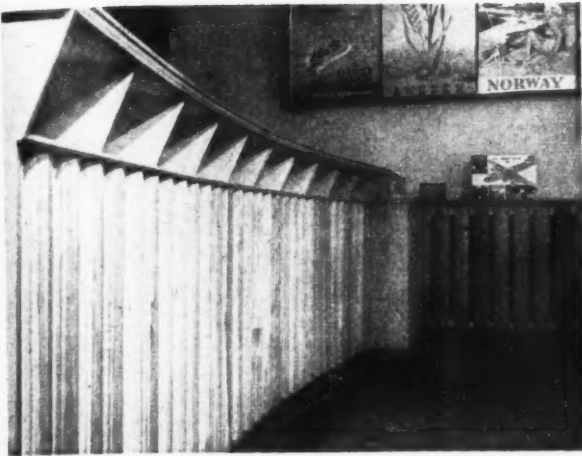
TRAVEL BUREAU

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designed by STEIN FINNE

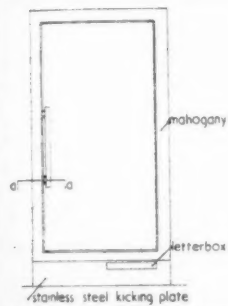


Ground floor plan [Scale: $\frac{1}{4}$ "=1'0"]

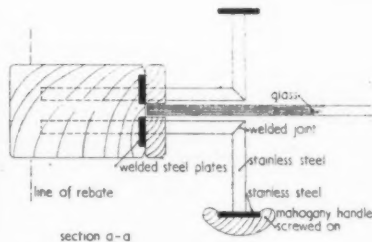




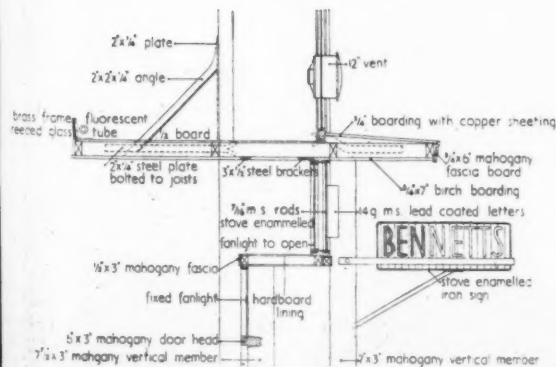
Above, the main inquiry counter. Right, part of the oriental mosaic ceiling which has been retained. Below, left, the main doorway. Bottom, the canopy, which is cantilevered both inside and outside the entrance.



Elevation of main entrance door
[Scale: $\frac{1}{4}'' = 1' 0''$]



Part plan of handle of main entrance door
[Scale: $\frac{3}{4}'' = 1' 0''$]



Section through canopy

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

around the door as indicated on the plan. Large areas of glass are used on the comparatively narrow frontage, which is kept unobstructed so that the interior may act as a window display. Fittings are of birch and mahogany.

SERVICES.—The lighting of the rear part of the bureau is by glass dome fittings recessed into the underside of the mezzanine floor. There are three suspended lamps over the inquiry counter, five adjustable spotlights on the panelled wall and fluorescent lighting along the top of the internal canopy and the large poster frame. The original central heating system is retained.

The general contractors were Messrs. Courtney Pope, Ltd. For list of sub-contractors see page 412.



OFFICES AND SHOWROOM

at SELWYN HOUSE, ST. JAMES'S, LONDON

converted by GEORGE FAIRWEATHER

special interiors by KENNETH CHEESMAN

Pilkington Brothers, Ltd. have acquired the lease of four floors of Selwyn House, with temporary licence to use three of those floors for office purposes. The fourth floor is to be used as a flat by directors. George Fairweather was commissioned to convert the premises. The interiors of the reception hall, conference room and showroom were designed by Kenneth Cheesman.

The large conference room

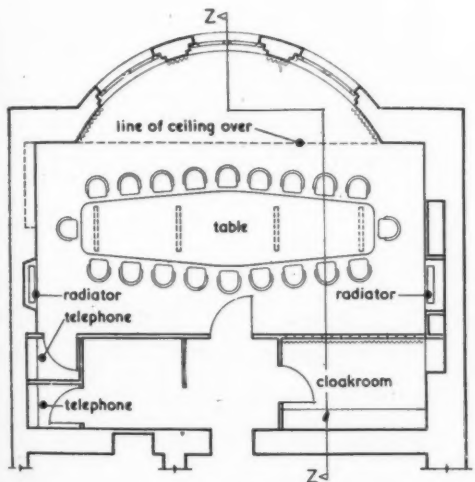


CONFERENCE ROOM.—This room is on the ground floor and overlooks the Green Park. The conference table seats twenty. Cloakroom accommodation for the same number has been provided by partitioning off 6 ft. 6 in. of the room. Two telephone boxes have also been provided.

CONSTRUCTION.—A parabolic ceiling has been constructed, using an absorbent fibrous plaster, pre-cast in the form of a grille, and backed by a one inch thick layer of glass wool.

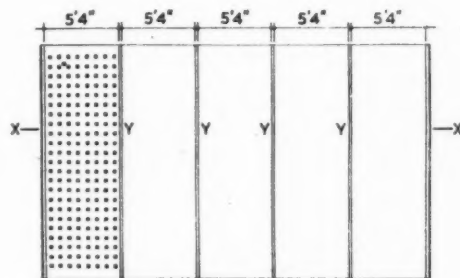
FINISHES.—The principal decorative feature, a large map of the world, consists of two, freely shaped, $\frac{1}{8}$ -in. clear plate glass panels, which are separated by a strip of metal, representing the line of the

equator. Land masses, which are shaped from $\frac{1}{8}$ -in. figured rolled and cathedral glass of a single pale copper tint, have been superimposed and fixed with mastic. The curtains are a dull copper-pink of heavy weave, in wide horizontal bands. The carpet is made up of alternate widths of a pale warm grey and a greenish blue-grey. The chairs have mahogany frames and are covered with a heavily ribbed, grey-green velvet. The cloakroom contains translucent louvres of fluted glass in a ceiling lighting fitting; silvered, fluted glass, wall lining behind hat and coat pegs to protect the wall from damp clothes; and clear polished plate glass slats which are used for a light luggage rack as well as for an umbrella stand, which is backed by opaque glass.

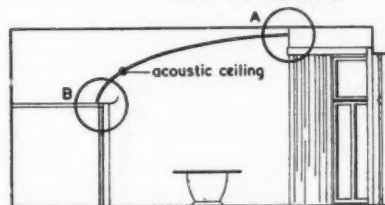


Plans and section of the conference room

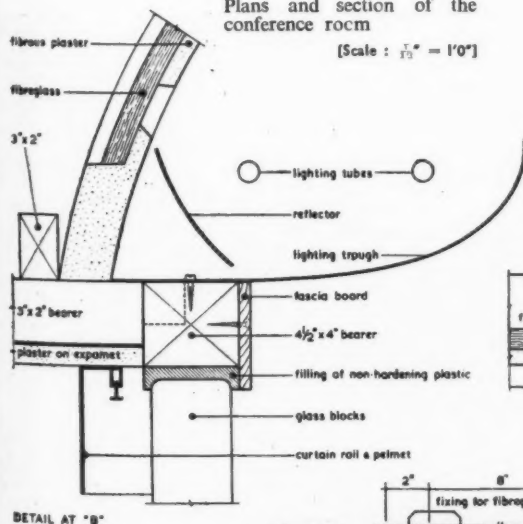
[Scale: $\frac{1}{16}$ " = 1'0"]



PLAN OF CEILING



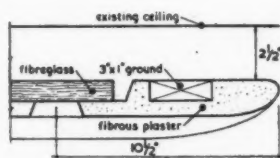
SECTION Z-Z



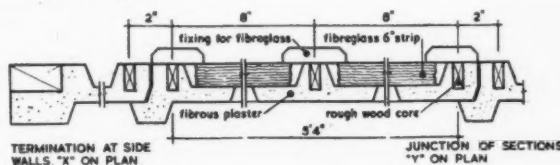
DETAIL AT "B"

Details of the conference room

[Scale: 1" = 8"]



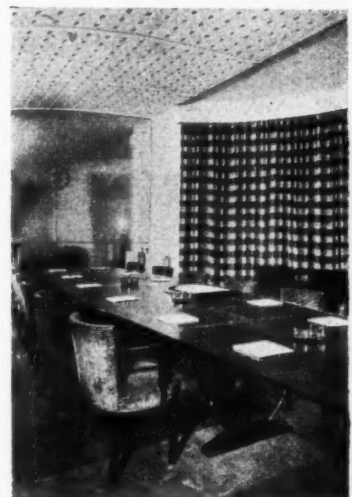
DETAIL AT "A"

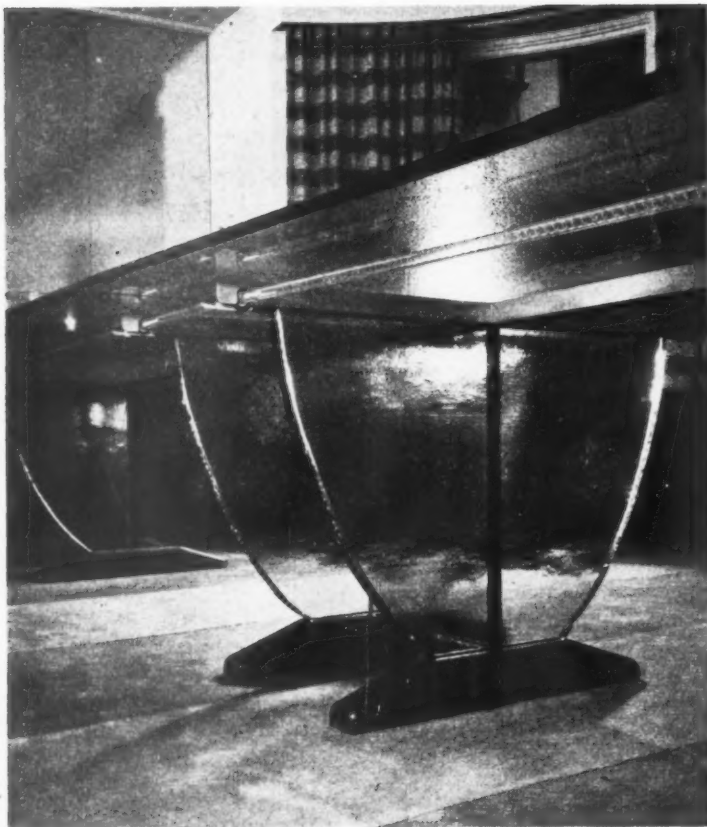


TERMINATION AT SIDE WALLS "X" ON PLAN

JUNCTION OF SECTIONS "Y" ON PLAN

The conference room

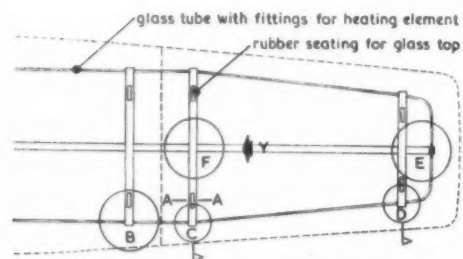




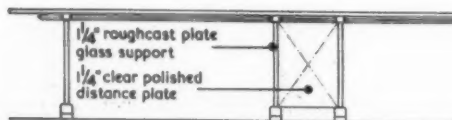
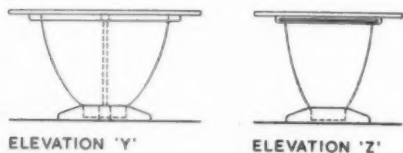
The table in the large conference room, and right, the telephone box in the foyer

OFFICES AND SHOWROOM

at SELWYN HOUSE, ST. JAMES'S, LONDON
special interiors designed by KENNETH CHEESMAN

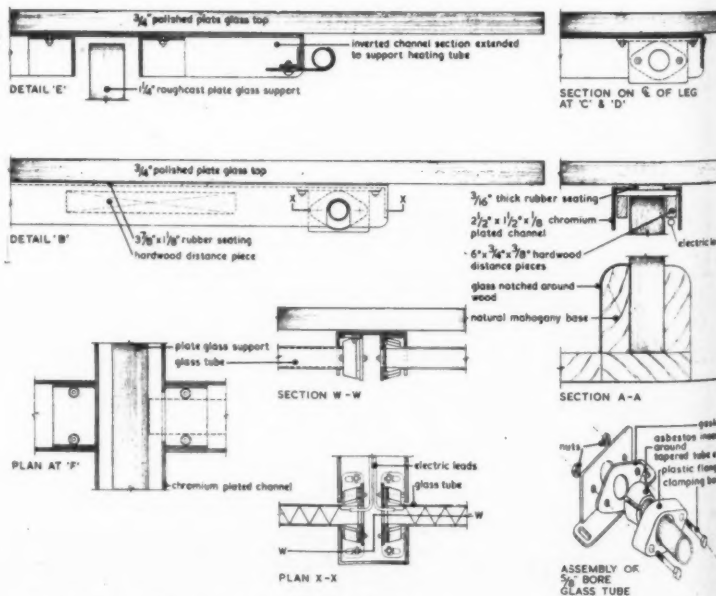


HALF PLAN OF FRAMING BENEATH TABLE TOP



Side Elevation
The conference table [Scale: $\frac{1}{4}''=1'-0''$]

FITTINGS.—In order to overcome the chill of the $\frac{3}{4}$ -in. thick plate glass top to the conference table, an electric heating element has been incorporated beneath the lower surface. The upper surface is stippled to minimise reflection and glare.



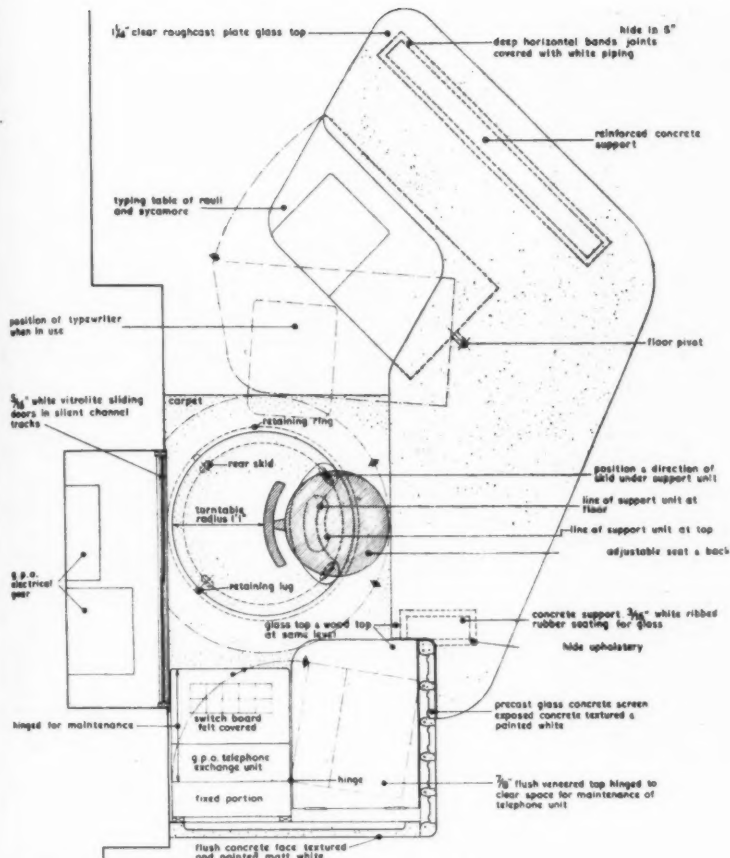
Details of conference table [Scale: $2''=1'-0''$]

RECEPTION HALL.—There are two areas, the lower entrance area, and the higher reception area, which is reached by a flight of steps.

CONSTRUCTION.—The two areas are separated by a clear polished plate glass screen from the floor to the fibrous plaster false ceiling.

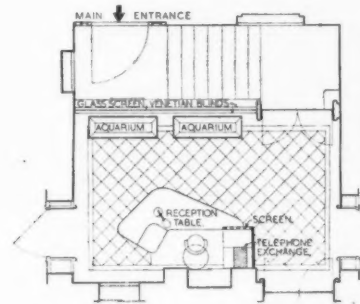
FINISHES.—Venetian blinds have been hung both sides of the screen. The entire window wall is faced with glass.

SERVICES.—Lighting consists of daylight fluorescent tubes concealed by the venetian blinds.

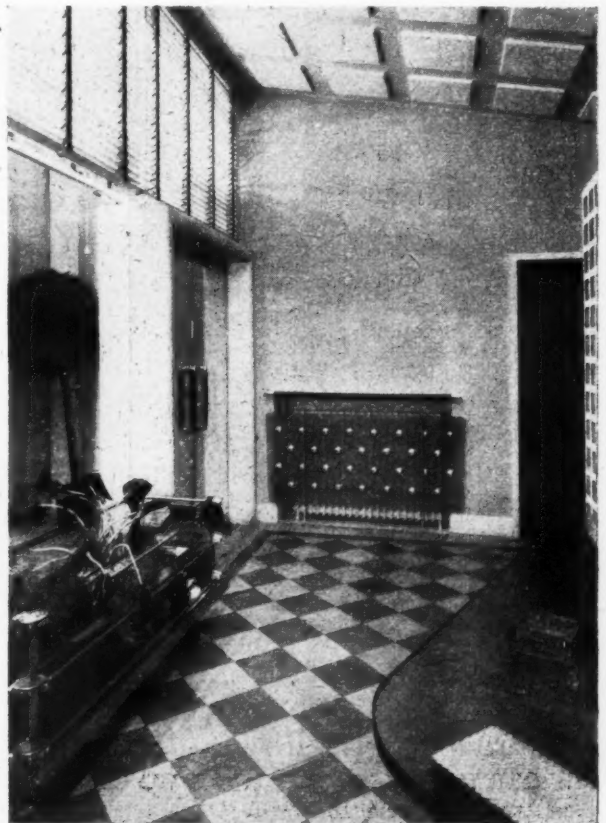


The reception table [Scale: 1/2"=1'0"]

The reception table, and right, entrance to the reception hall



The reception hall [Scale: 1/2"=1'0"]





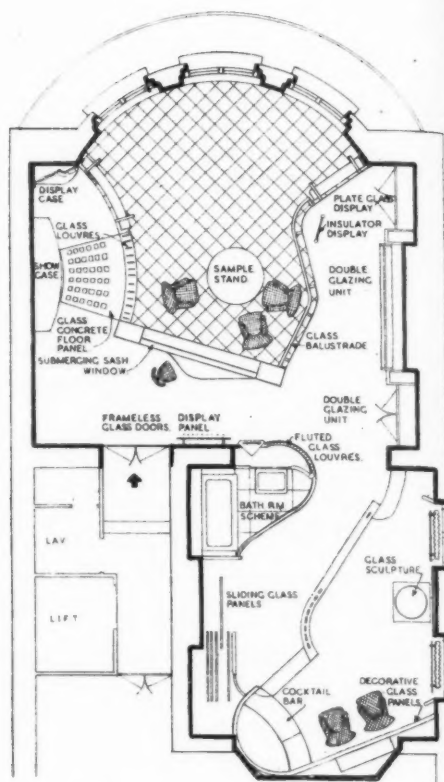
The showroom, showing the glass balustrade and the insulator display



The nine-foot wide sash window which separates the two floor levels. The lower sash of this window may be submerged by means of a winding gear. Beyond it can be seen the bay windows which overlook the Green Park

OFFICES AND SHOWROOM

at SELWYN HOUSE, ST. JAMES'S LONDON
special interiors designed by KENNETH CHEESMAN



Plan of showroom [Scale: 1/16" = 1'0"]

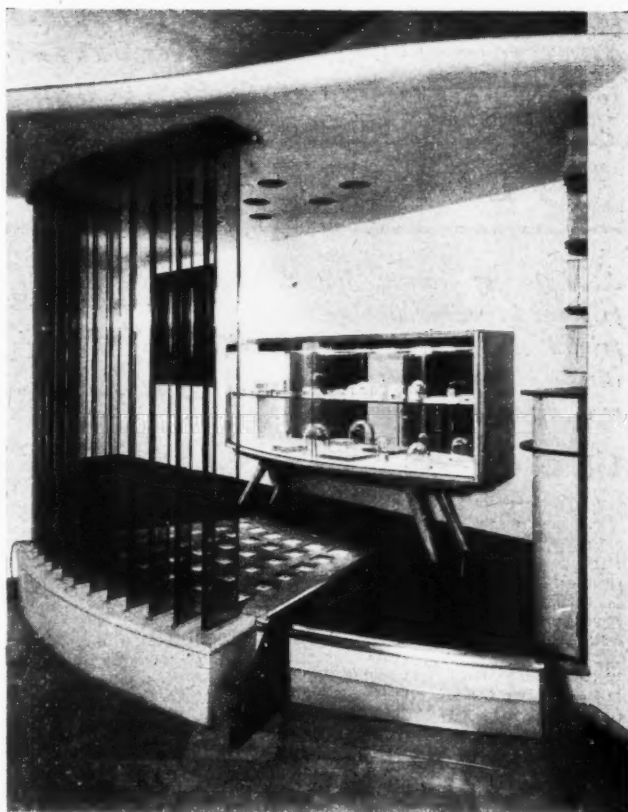
SHOWROOM.—This room overlooks the Green Park on the first floor. A slightly raised floor and false ceiling has been adopted. Entrance to the showroom is by way of a lobby, with access through a pair of glass doors.

FINISHES.—Wall surfaces are of rough textured plaster in the main room, and of natural wood finishes in the smaller room. The whole raised floor area is covered with royal blue felt, the centre lounge space being finished in birch plywood in 15-in. squares, set diagonally and wax polished. The two levels are separated in the main showroom by a translucent screen consisting of vertical louvres of 1-in. thick polished plate glass on one side, and by a hardwood handrail, and bent rough cast double rolled glass balustrade panels on the other.

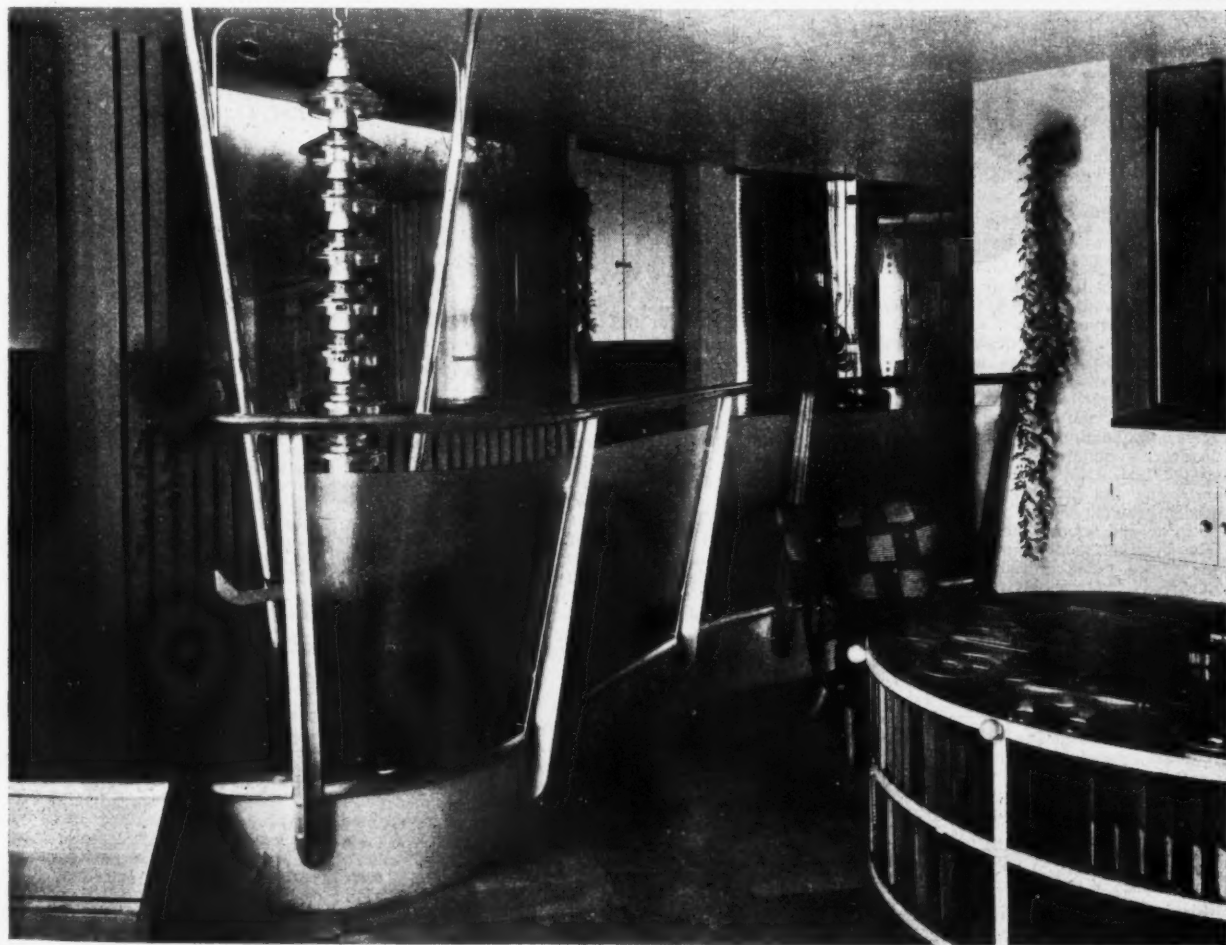
FITTINGS.—The main room contains a number of displays. A 9-ft. wide counterbalanced sash window has been fitted. The lower sash submerges into the substructure by means of a winding gear. A double glazed window unit has been included, as well as a display case with a collection of pressed and blown glassware, a full range of hollow glass blocks, and a string of glass high tension insulators for power lines. The smaller room, opening out of the main showroom, accommodates a bathroom display, a series of sliding panels showing alternative wall treatments in glass, and a cocktail bar.

The general contractor for the reconstruction of Selwyn House was Griggs and Son Ltd. A list of sub-contractors appears on page 412.

A display case containing pressed and blown glassware



Showroom, showing insulator display and double glazing unit behind



**INFORMATION CENTRE • INFORMATION SHEETS
QUESTIONS AND ANSWERS • CURRENT TECHNIQUE
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TECHNICAL SECTION

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

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10.73 design: building types

BUILDINGS FOR THE ARCTIC

Stressed Skin Buildings for the Arctic. Frank Illingworth. The Builder, Jan. 20, 1950, p. 110.)

An interesting new design in light-weight materials to withstand arctic conditions.

In the last two years buildings of a novel type have been erected on the arctic shores of Canada and the USA, for the personnel of arctic stations. Mr. George Jacobsen, a Canadian architect, designed the stressed skin plywood buildings and tested them under field conditions. Frost in the ground is the main problem in arctic construction: the seasonal thawing and freezing undermines foundations of an orthodox type. Jacobsen's buildings are floated on a dry gravel bed, two to three feet deep, thus insulating the heated building against the frozen ground. Floor, wall and roof panels form a rigid frame when screwed together. The building then floats like a raft on the gravel bed, rising and sinking without being damaged. Marine plywood is used, as in aircraft construction, with aluminium foil and fibre board and glass fibres for insulation. The standard panels are 4 ft. by 8 ft. and easily handled by two men. The triple-glazed windows cannot be opened. The smooth exterior shows no overhangs or sharp corners; finger-lift action by the wind is prevented and no outside guys are required against 65 m.p.h. gales.

11.21 materials: general

BUILDING SCIENCE

Building Science. D. A. G. Reid. (Longmans Green & Co. 1950. 6s.)

First volume of several intended to cover National Certificate Course in Building.

Clear, descriptive and up-to-date on elementary aspects of building science. Useful as pre-student or first year reading for architects.

15.72 materials: applied finishes and treatments ASPHALT ROOFING

Mastic Asphalt Roofing. Draft sub-code 144.201. 1949. (British Standards Institution. 5s.)

Deals with all the major problems associated with mastic asphalt roofing under the general heading now standard in the codes. pp. 42, ill., 21 Figs.

A most useful code which is likely to have a special appeal for architects because unlike so many codes there are included 21 pages of very clear diagrams showing typical details of construction.

Although two main categories of mastic asphalt are mentioned (BS 1162 and BS 988) there does not appear to be any guide as to when either type should be chosen in preference to the other.

Nevertheless, amongst other recommendations included in the code are those about the design of suitable substructures, about underlays, thicknesses and numbers of coats, protection against solar radiation, work on site, and the restoration or alteration of asphalt coverings, and there is also a bibliography.

A sensibly short code with some valuable information. A pity the price is not 1s. instead of 5s.

18.43 construction: theory

FIRE IN BUILDINGS

Fire in Buildings. Eric L. Bird and Stanley J. Docking. (A. & C. Black Ltd. 1949. 15s.)

How fires occur and spread, protection and escape, materials and construction, defence methods and installations, instructive case sheets of notable fires. An excellent and readable book. 290 pages, many plates and figures and a good bibliography.

This book is so good and so full of well written information and advice that it is almost impossible to attempt a brief abstract. The authors write with authority as both were on the staff of the Research and Experiments Department of the Ministry of Home Security during the last war. They also write very much from the architect's point of view and they succeed in giving a comprehensive survey of the whole subject which is likely to remain as a standard reference for architects for many years. Not the least of their achievements is the abstraction of the essential facts from the Post-War Study Committee Report on the Fire Grading of Buildings and their presentation of these in a reasonably simple form. An author who can achieve this deserves full marks anyway but they get a bonus on many other counts as well. To those who feel ignorant of the subject the book will be a real help. To those who think they are not so ignorant it may come as a chastening reminder of their need to learn more, and to those who regard all regulations as a curse it may explain the reasons

behind some of the apparently irksome rules that have to be obeyed while at the same time helping to give a surer basis for evolving more solutions to the problems of choosing materials and methods of construction which will be sound from the point of view of fire risk.

18.44 construction: theory SOIL MECHANICS

The Mechanics of Engineering Soils. P. L. Capper and W. Fisher Cassie. (E. & F. N. Spon. 1949. 21s.)

Concerns the architect. Foundation and drainage problems in theory and practice. 270 pp., 122 illustrations.

To some architects the title of this book may sound forbidding. However, many of the subjects concern him directly in his overall planning. Foundation problems are prominent amongst these subjects, and their understanding requires a good deal more than a knowledge of the fundamental theories of earth pressure. Changes in the stability of soils can often be foreseen if the building site has been thoroughly explored by sampling and testing. The behaviour of various types of foundations is shown both by analysis and by experience and test results, giving data of immediate value on stability, settlement under static and moving loads, notes on the design of structures to resist such displacement, and on remedial measures. The architect may also be interested in the chapter on drainage problems and soil stabilization. A comparatively new science like soil mechanics is very much dependent on practical experience gained from trial and error, and much of this experience is clearly presented in this book. It is mainly intended for students and practising engineers, but all the same of direct concern to many architects.

19.88 construction: details

CONCRETE FLOORS AND ROOFS

Suspended Concrete Floors and Roofs (including Stairs). BSC of P CP 114.100-114.105 (1950). (British Standards Institution. 6s.)

Sub-code to CP 114 (1948), The Structural Use of Normal Reinforced Concrete in Buildings. 66 pp., 9 figures, 11 tables.

This code, published in January, deals with the following five types of floors and roofs in reinforced concrete: solid slab, flat slab, ribbed, pre-cast and filler joist construction. Pre-stressed construction is not covered. A certain amount of repetition of material published in CP 114 has been accepted to make this code complete in itself, without too many cross references. As usual in the series of codes of practice, design considerations form the main contents. Materials and appliances are also discussed, and detailed instructions given on workmanship, inspection, testing and maintenance, for each of the above-mentioned types of construction.

22.43 sound insulation and acoustics

ACOUSTICAL FURNITURE

Acoustical Furniture. M. Bergson (Architectural Forum [USA], Jan. 1950, p.12.)

Low partitions, generous sound absorbers. Interesting, useful, two photos.

This is furniture combined with waist high partitions to give to open planning in offices some reduction of noise-spreading. Perforated metal (like fly-screening) is used, with glass wool behind. Typewriter noise is said to be cut in two, but this dramatic picture may mean only 3 decibels or it may mean a big psychological change. The perforations receive push-pins so that notices can be put up everywhere.



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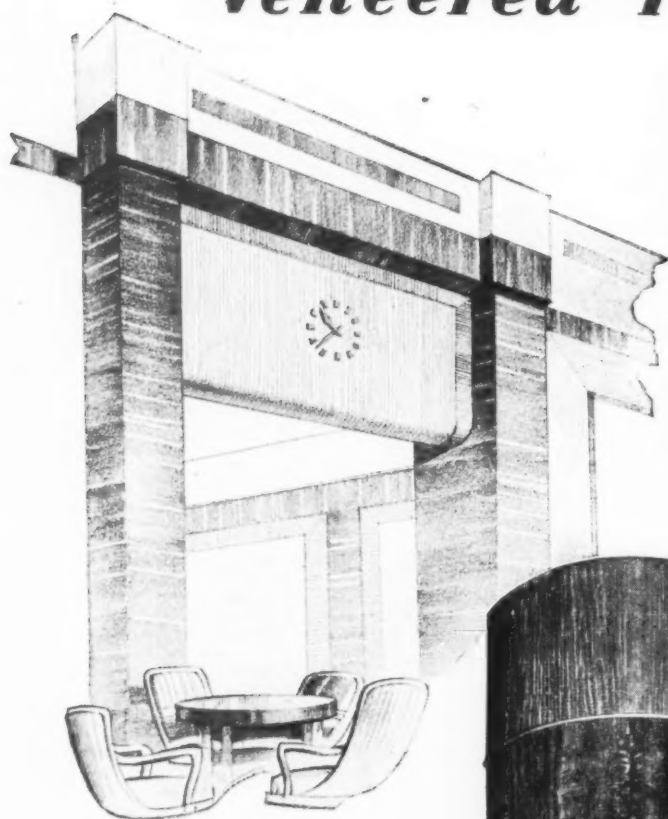
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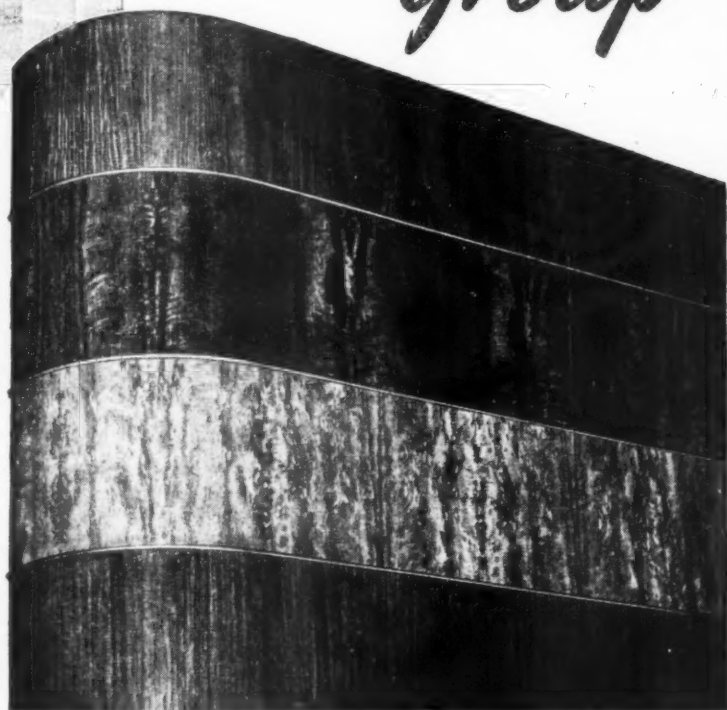


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THE INDUSTRY

By Brian Grant

PRECAST ROOF AND FLOOR BEAMS

The illustrations below show the Dow-Mac precast concrete beam which has been designed mainly for the construction of school roofs, where economies in the main structure call for a minimum deadweight. Although designed primarily for schools, these beams should have considerable use wherever a light economic roof is needed; it is extremely light, and handling and fixing can be carried out by two men. Special units are made for eaves, verges and abutments, and provision can be made for fixing fascias and soffits. Other variations of the standard section beam allow for the fitting of roof lights, trimming round vents and other normal features of roof construction, while some types are notched at the corners to give a clearance for walling slabs where side walls are to come above the level of any particular section of roof.

The standard beams measure 8 ft. 2½ in. by 1 ft. 2 in. and weigh 17 lb. per ft. super, each beam having an effective covering area of 1.06 yards super. With an allowance of 2½ lb. per ft. super for finishes, the beams are designed for a super load of 30 lb. per sq. ft., while, by modifying the reinforcement, the beams can be used for light floor construction at the same spans. The beams are

easily laid and special barrows are available for moving them from the hoisting point to their final position on the roof.

As the section shows, the transverse ribs of the beams are notched to allow a 4 in. by 2 in. opening for running services. (Dow-Mac (Products) Ltd., Tallington, Stamford, Lincs.)

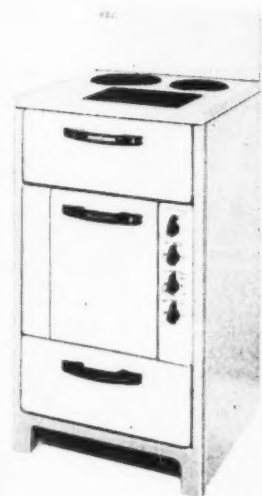
LIGHT ALLOY EXTRUDED SECTIONS

Bulletin No. 16 recently published by the Aluminium Development Association, is not a treatise on the manufacture of extruded sections, but an introduction intended to give the reader a clear picture of the potentialities of these sections. It opens with a survey of the characteristics of aluminium and its alloys, including tables of the properties of those materials in which extruded sections are produced. The extrusion process is then described in principle so as to make clear the subsequent account of certain factors in design, which are of importance in ensuring efficiency in production.

The bulk of the book is illustrated in order to show, first, those problems which can be profitably discussed between user and producer at the design stage and, secondly, to show the special features and advantages of the process. This second section of illustrations consists of full-page drawings showing the application of different sections to typical products. These sections are linked on the one hand to a profile drawing and on the other to a diagram showing precisely how the sections are related to their surroundings.

BS 1161: 1944, Aluminium Alloy Sections, has, of course, direct bearing on this subject and the Bulletin contains notes on that specification, including some information on the heat treatment of sections and the effect of annealing on forming operations that may be carried out by the user. These are not, of course, of any great importance to the builder.

The final section of the Bulletin consists of tables of tolerances for round and hexagonal bars, and regular sections; these tolerances and tables form part of BS 1476, Aluminium and Aluminium Alloys: Bars, Rods and

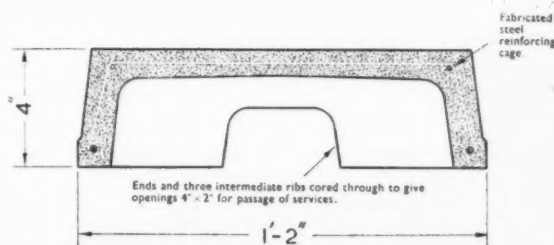


A new electric cooker designed by The General Electric Co. Ltd.

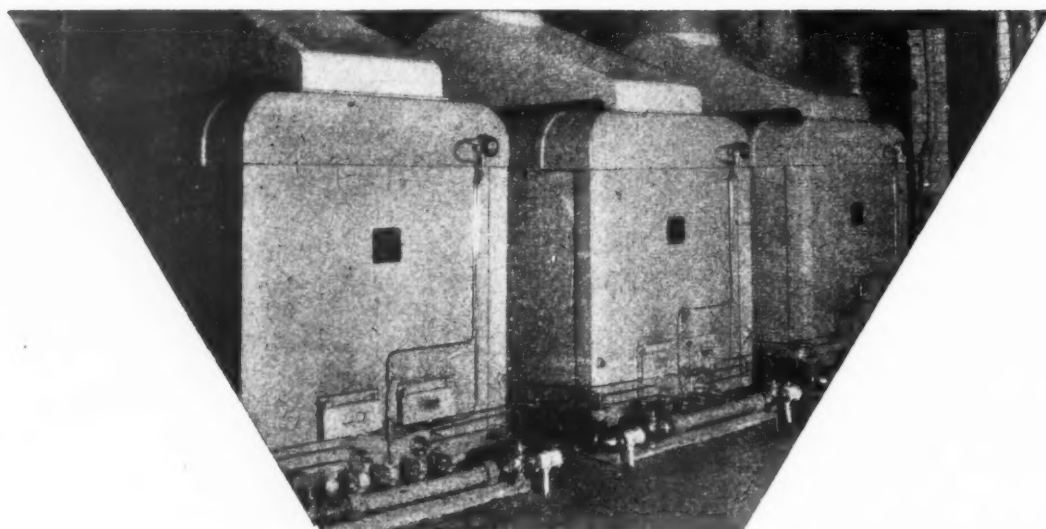
Sections, to be published shortly. (The Aluminium Development Association, 33, Grosvenor Street, London, W.1.)

A NEW COOKER

The GEC have just announced a new cooker, illustrated above, which is finished in acid resisting porcelain enamel, either in two shades of ivory or in cream and green. The total loading is 7,650 watts, with an extra 400 watts if the bottom drawer is heated (£3 extra) so that it can be used as a warming cupboard. Dimensions overall, including splash guard are 21 in. by 21 in. by 44 in. high, the hot plate height being 36 in. to line up with standard kitchen cabinet dimensions. The manufacturers emphasise that the new design has been revised after discussions with supply authorities, maintenance men, and, above all, householders, so that it should prove satisfactory in use. Construction is stronger than in the previous model, the main frame of hob and front consisting of two castings supporting heavy gauge steel pressings, while the drop down oven door which was apparently popular in the earlier model, now has a solid cast-iron frame. The oven has the usual thermostat, and there is a simmering control on the main boiling plate. The three-plate model is £28 10s. while there is also a two-plate model, in mottled grey only, which costs £3 less. (The General Electric Co. Ltd., Magnet House, Kingsway, London, W.C.2.)



Above, a typical section of the Dow-Mac precast concrete roof beam. Left, a beam being placed in position.



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PRODUCTIVITY IN HOUSE BUILDING

By Ian Bowen

The paucity of official figures on house-building costs has often been complained about, in these columns as elsewhere. The Girdwood and Laidlaw Committees, while producing some interesting estimates themselves, have acted as an iron curtain between the public and the facts. How much houses in different parts of the country are costing ought to be officially known, and indeed must be known at least in terms of tender prices, but few comparative statements are ever issued; this strange silence is usually defended by the bureaucratic argument that publication of facts might result in awkward or "misleading" questions being asked.

This is, of course, only one aspect of the general failure of the government service to adjust itself to conditions of democratic planning, which necessarily implies a well-informed and critical public opinion. The departments have only themselves to blame if some monstrous fallacies about the house-building programme have been circulated.

For all these reasons, any government publication on costs is of special importance. A press notice has been issued this month by the Ministry of Works; a corner of the curtain has been lifted, and more welcome still, details of a "Pilot Survey" on house-building costs by the Chief Scientific Adviser's Division are to be published in full as a National Building Study*. Let us now examine the extent of these small mercies.

PRODUCTIVITY AND COSTS

Some housing economists, builders and architects might say that labour productivity had never been worse and was deteriorating further because of full employment, that labour costs had risen more steeply than materials' costs, that the size of the contracts let had no effect on their cost, and that the extra size of houses caused disproportionate extra expenditure. Hence the remedies for housing problems were to increase unemployment, to resist wage increases for the building trades, to let more contracts piecemeal to the smaller builders, and to cut down the size of houses.

These views, at least, the present writer has often heard expressed over the last four years; and it was not easy to say that they were wrong. In 1946, indeed, there was some substance in them. Happily the "Pilot Survey," as it has been modestly called, suffices to show that by 1948 every one of the four propositions above could be refuted.

In 1947-48, the period covered by the survey, labour productivity was definitely rising, by 2½ per cent, every three months on the average. This rise continued in 1949, though not so fast. Thus despite a rise in money wages, labour costs were falling. (This was not known at the time, and policy was sadly at fault through ignoring it.) The rise was due to a number of factors, including the easing of the materials' supply position.

In 1947 and 1948, materials' costs rose quite steeply, offsetting the fall in labour costs, and driving up the total costs of a house by an average of 1 per cent, per quarter.

The size of contracts (at least up to 80 houses per contract, the largest case studied in the survey) was closely related to effi-

ciency. On an average, the survey states, man-hours fell by 2½ per cent, for every additional 10 houses in the contract. A substantial gain would accrue, it would seem, as a result of a deliberate policy of letting larger contracts.

Finally, the average size of house in the pilot sample was 935 ft. super and took an average of 3,080 man-hours to build (or 2,880 if, as is possible, the estimate for sub-contracting man-hours was too high). This works out at an average of 30-33 man-hours for every 10 ft. super. But if houses of different sizes are compared it works out that the extra feet super of larger houses only demanded some 20 extra man-hours for every extra 10 feet. Thus less than a proportionate number of man-hours would be saved by lowering the size-standard of the post-war house. All these four points have been established by the pilot survey.

THE INCENTIVES SCHEME

The investigation has thrown new light on the controversy over payment by results. On average, every £5 of bonus paid resulted in a saving of 2 per cent, in man-hours, nor was this the whole of the saving secured, since incentives tended to reduce other site costs by speeding up the work. Bonus payments on average paid for themselves, i.e. £5 of bonus led to £5 less in costs. These average figures no doubt conceal some cases where the saving was much greater and some where it was less. In a situation where overtime or some other form of payment above ordinary time-rates is almost unavoidable, bonus payments would seem to justify themselves.

In fact over the period studied labour costs were falling, despite rising wage-rates. To assign exact reasons for this improved general productivity is still not possible. But even to have the fact itself established is of considerable value. And since this general increase, partly due though it may have been to improved materials' supplies, and to the increase in skill of craftsmen returned from the Forces, etc., took place at a time when Payment by Results was being re-introduced, incentive schemes are likely to be regarded no longer as wasteful and ineffective. Nevertheless, the coincidence of a rise in general productivity with the payment by results scheme means that the effects of bonus have so far only been studied under rather special conditions.

As between sites that were bonused and those that were not, output was evidently higher on the bonused sites (hence the average saving in man-hours calculation quoted above). But whether this gain would hold in different employment and general circumstances is not known.

Still, future years should see a further steady increase in labour productivity, as new methods of constructing both "traditional" and "non-traditional" houses spread from the centres of innovation and research to the periphery of the industry. In such circumstances the continued benefits of bonusing may well be felt.

THE METHOD FOLLOWED

The survey was based on a sample of about 160 sites on which 3,000 three-bedroomed houses were built for local authorities in the years 1947 and 1948. The sites were widely scattered in Southern England, the Midlands and South Wales. The facts cannot therefore be precisely related to the whole country since conditions in Northern England and in Scotland are known to vary considerably from those elsewhere. But it seems that the averages established by the sample can be taken as reasonably representative for the areas covered.

The technique for obtaining the information is of great interest. Special teams of investigators were briefed to inspect builders' books and records, a method which avoids the errors inherent in any system of unchecked "site returns." The data obtained were checked by experts with long practical

building experience. Workmanship and quality of results were checked, as well as costs and man-hours worked. This was a very important point, and enabled the authors of the survey to discover that "payment by results, despite fears to the contrary, was not associated with inferior workmanship."

The method of the survey could not have succeeded if the officers conducting it had not received, as they did, "the whole-hearted co-operation of the individual builders concerned, as well as of the National Federation of Building Trades Employers and its regional associations."

From the point of view of technique the enquiry thus embodies a new departure; but it is new because it is one of the first examples of successful co-operation of statisticians and scientific investigators with practical builders. There is nothing specially new about the statistical technique itself, which has been very thoroughly tried out in other practical field-work. It is to be hoped that this pilot survey will not, as so often happens, be left as a pilot, with no follow-up enquiry on a large scale.

VALUE OF THE RESULTS

The press notice gives insufficient particulars for any detailed appraisal of the statistical methods employed, but the following general observations can be made.

The practical value of objective enquiries of this kind is twofold; for the industry itself, and for those who decide general housing policy. There is not the slightest doubt that this industry stands to gain more than most from a closer study of its costs, and detailed results of this pilot survey must themselves be of immense value to any thinking member of the industry, anxious to compare his own progress with carefully recorded experience elsewhere. This aspect of the matter is stressed in the press release, and need hardly be elaborated here.

For policy, too, the report is suggestive, and further reports on the same lines should be called for immediately. For at last some daylight can be seen at the end of the long, long tunnel called "Post-war Housing Costs." The letting of larger contracts, the continuance of incentive schemes and of other devices to increase labour productivity (better planning of the materials' flow for instance) would yield a saving in labour costs of £20-30 per house within twelve months; if, further, materials' costs could be reduced by a really ruthless cutting of distributive costs and other overheads—say by 10 per cent.—that would mean another gain of £60-70 per house. It is at last seen to be not impossible to imagine a reduction in housing costs over the next twelve months, so saving the subsidy and rent policy of the state from a financial breakdown.

As against this ray of optimism there are other factors, of course, lying outside the subjects covered by the survey itself. For example, last year's devaluation of the pound and the increase in railway freight charges now contemplated may have adverse effects on materials' prices in general, though these in turn may be less serious than is sometimes feared. A switching of the sources of supplies, and an increase in road transport may counteract such price rises as seem otherwise likely.

The survey is itself strictly neutral and objective. The policy conclusions that have been discussed here are not necessarily the ones that will be drawn. But whatever its net effect on policy this addition to factual knowledge on housing costs is a most important and significant contribution; the only matter for regret is that it should appear at the end, and not near the beginning, of the history of the Chief Scientific Adviser's Division, which is now in process of transformation. It is to be hoped that the Building Research Station or the DSIR will continue work along the promising lines that have here been pioneered.

* "Productivity in House Building; Findings of a Pilot Survey carried out by the Chief Scientific Adviser's Division, Ministry of Works, into productivity in house building during 1947 and 1948." (Issued as a Ministry of Works press notice.)

Buildings Illustrated

Dolcis Shoe Shop, Leicester Square, London (pages 390-391). Architect: Ellis E. Somake. Sub-contractors: Shopfitting, A. Davies & Co. Ltd.; electrical fittings and installation Courtney, Pope (Electrical) Ltd.; carpets and drapes, F. G. Minter (Decorations) Ltd.; cash tubes, Lamson Engineering Co. Ltd.; sprinklers, Atlas Sprinkler Co. Ltd.; heating, Rosser & Russell; chairs and fitting stools, Ernest Rage Ltd.; G. A. Sawyer Ltd.; sound reproduction, The Decca Record Co. Ltd.; paint, Thos. Parsons & Sons Ltd.

Travel Bureau, Northumberland Avenue. (Pages 399-401.) Designer: Stein Finne. General contractor: Courtney Pope Ltd. Sub-contractors: Decoration, E. C. Sames & Co. Ltd.; clocks, Richyard and Tucker Nunn; rubber floor, Runnymede Co. Ltd.; linoleum floor, Ward's Stores Ltd.

Selwyn House, S.W.1. (Pages 402-407.) Architect for conversion: George Fairweather, F.R.I.B.A. General contractor: Griggs & Son Ltd. Sub-contractors: Electrical, Atlass Electrical Co. Ltd.; lift, Hammond & Champness Ltd.; stone cleaning and repairs, A. Dreyfus Ltd.; railings, G. W. Cashmore Ltd.; heating, Rosser & Russell; ventilation equipment, Fenton Byrn Ltd.; ironmongery, Comyn Ching Ltd.; sanitary fittings, J. Boldings Ltd.; George Farmiloe & Sons Ltd.; Shanks Ltd.; Wallis Ltd.; plumbing, Dent & Hellyer Ltd.; gas appliances, North Thames Gas Board; suspended flooring, The Kleine Flooring Co. Ltd.; kitchen fittings:—director's flat, Contemporary Woodwork Ltd., caretaker's flat, John Sadd Ltd.; welding for showroom floor, The London Welding Co.; marble repairs, Fenning Ltd.; Peropa roofing to terrace, Frazzi Ltd.; acrotile flooring, caretaker's flat, Vigors Bros. Ltd.; roof slating, Parkinson Ltd.; built-up felt roofing,

Permanite Ltd.; cork flooring, The Cork Insulation Co. Ltd.; special joinery (including front door), D. Burkle Ltd.; vitreous tiles, The Great Metropolitan Flooring Co.; staircase balustrade, Clarke Hunt Ltd.; parquet flooring in director's flat, The Davis Parquet Co. Ltd.; electric clocks, The English Clock Systems Ltd.; electric light fittings, Troughton & Young Ltd.; Siemens Ltd.; glazing works and Vitrolite, Clark Eaton Ltd.

Selwyn House, S.W.1. (Pages 402-407.) Architect for special interiors: K. Cheesman, L.R.I.B.A. Contractors for conversion: Griggs & Son Ltd. Contractors for fibrous plaster work, special fittings and furnishings in converted rooms, and conference room ceiling, David Esdaile & Co. Sub-contractors: Special metal work, The Morfax Sheet Metal Co. Ltd.; electrical work in large conference room and reception room, The Atlass Electrical Co.; electrical work in showroom, W. H. Smith; terrazzo finishes, Zannelli (London) Ltd.; veneered doors, D. Burkle & Son.

Correction

David Stokes, F.R.I.B.A., and A. Gilbert Scott, F.R.I.B.A., were appointed by the Roman Catholic Diocese of Westminster to design, respectively, the Roman Catholic Secondary School, Canon Street, Poplar, and the Roman Catholic Church, Poplar. In our issue for March 16 it was stated that the LCC had appointed them for this work on the Stepney-Poplar Reconstruction Scheme. They are, in fact, voluntarily co-operating with the Council. We also stated that housing for this scheme was being designed by (among others) the LCC Architects Department. The department responsible is that of the Director of Housing and Valuer.

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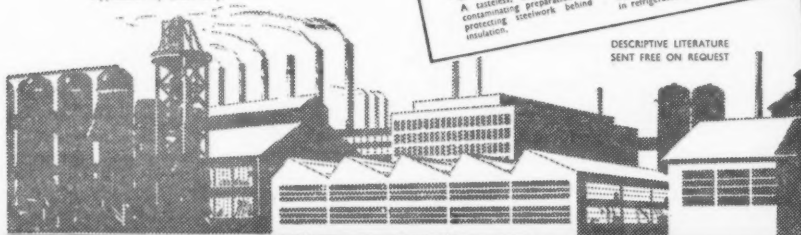
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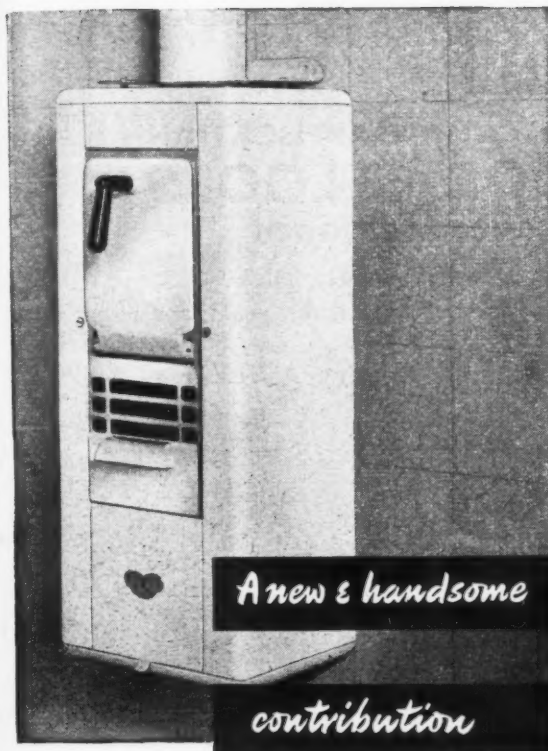
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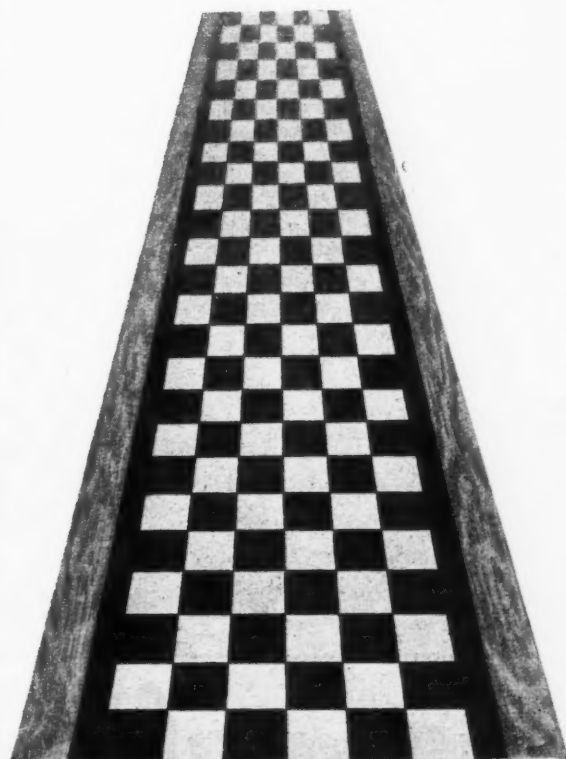
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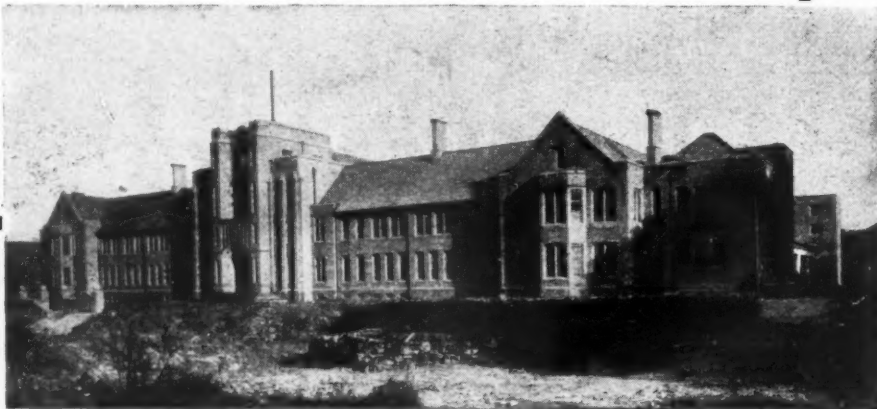
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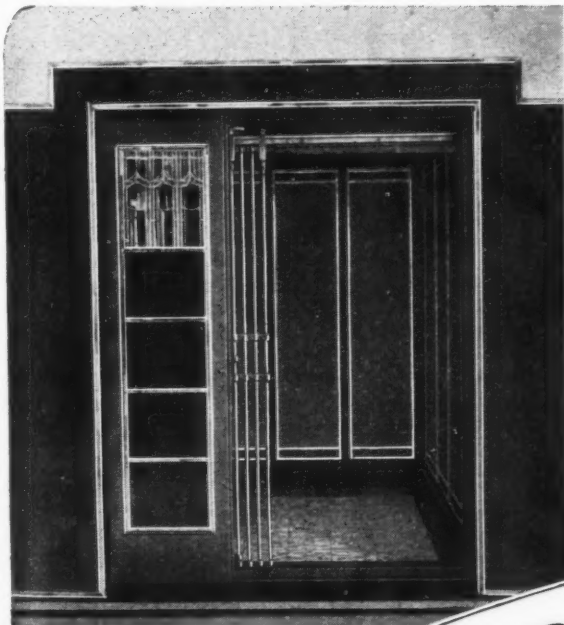
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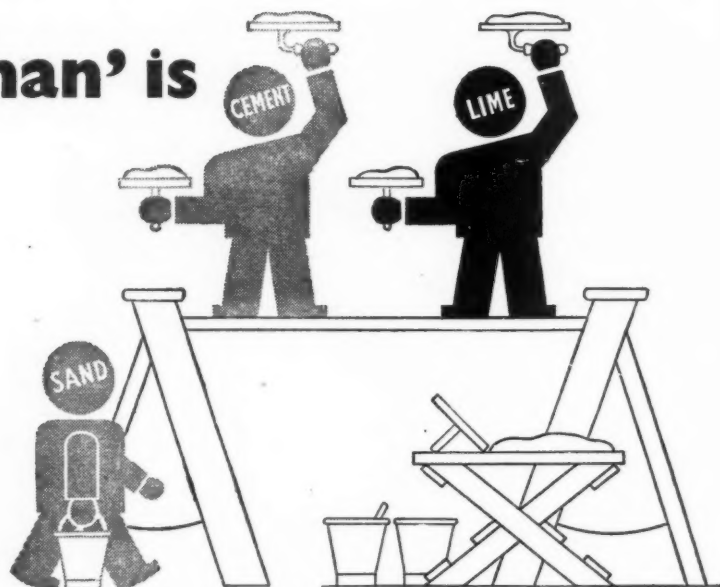
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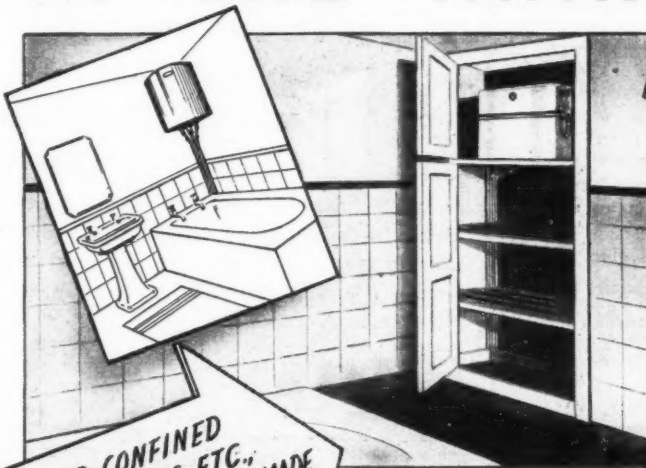
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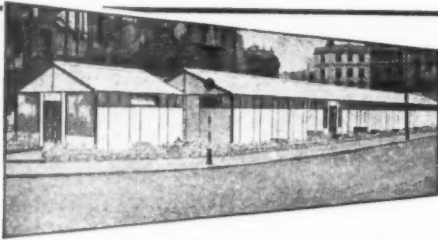
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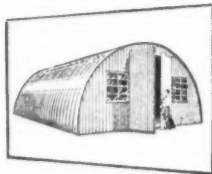
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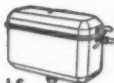
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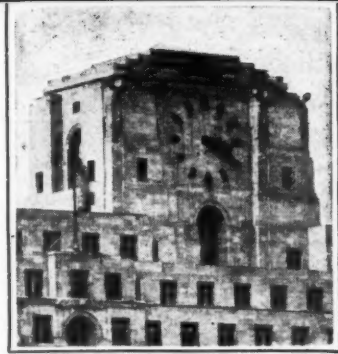
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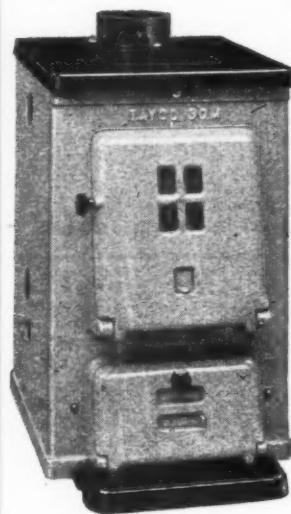
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Candidates should be of British nationality and have had a recognised Architectural training and good experience.

There are also vacancies for first-class DRAUGHTSMEN in the Senior Architectural Assistant Grade.

Salary:—Senior Architectural Assistants: London, £625-£750 per annum; Risley and Capenhurst, £595-£720 per annum.

Salary:—Leading Architectural Assistants: London, £500-£625 per annum; Risley and Capenhurst, £470-£595 per annum.

Hostel accommodation, for men, at reasonable cost is available at Risley, and there is a possibility of housing being available in the near future at Capenhurst.

Apply in writing, stating locality desired, age, training and experience, to Chief Architect, W.G.10/A.N., Ministry of Works, Abell House, John Islip Street, London, S.W.1. 3801

COUNTY BOROUGH OF SUNDERLAND.

Applications are invited from suitably qualified persons for the following permanent appointments in the Borough Architect's Department:—

(a) CHIEF ASSISTANT ARCHITECT (Grade VII).

(b) ASSISTANT ARCHITECT (Grade VI).

(c) CHIEF ASSISTANT QUANTITY SURVEYOR (Grade VII).

(d) SENIOR QUANTITY SURVEYING ASSISTANTS (Grade V).

Full details and forms of application may be obtained from Harvey C. Bishop, A.R.I.B.A., Borough Architect, Grange House, Stockton Road, Sunderland, to whom completed application forms should be forwarded not later than Wednesday, 5th April, 1950.

G. S. MCINTIRE, Town Clerk. 3799

COUNTY BOROUGH OF ROTHERHAM.

ARCHITECTURAL ASSISTANTS.

Applications are invited for the undermentioned appointments in the office of the Borough Engineer, at salaries in accordance with the stated Grades of the A.P. and T. Division of the National Scale of Salaries:—

(1) SENIOR ARCHITECTURAL ASSISTANT (Grade VI). Applicants must be Associate Members of the Royal Institute of British Architects.

(2) ARCHITECTURAL ASSISTANT (Grade V), or JUNIOR ARCHITECTURAL ASSISTANT (Grade II, III or IV).

This appointment will be made in Grade V only if the selected applicant is already a Registered Architect and otherwise will be made in one or other of the Junior grades in accordance with the experience and qualifications (which must include the R.I.B.A. Intermediate Examination or its equivalent) of the selected applicant.

Each post is superannuable and a candidate selected for appointment will be required to pass a medical examination. The appointment will be subject to the conditions of service adopted by the Council and based on the National Scheme of Conditions of Service. It will be determinable by one month's notice on either side.

Applicants must state whether they are related to any member or officer of the Rotherham County Borough Council. Deliberate omission to disclose any such relationship will disqualify any candidate. Canvassing of members of the Council, whether direct or indirect, will disqualify.

Applications, endorsed "Architectural Assistants," stating age, qualifications and experience, accompanied by copies of three recent testimonials, should be delivered to the undersigned not later than the 12th April, 1950.

JOHN S. WALL, Town Clerk. 3787
Municipal Offices, Rotherham.
10th March, 1950.

CHESHIRE COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.
NORTH-EAST CHESHIRE AREA PLANNING COMMITTEE.

APPOINTMENT OF PLANNING STAFF.
Applications are invited for the following appointments on the permanent establishment of the North-East Cheshire Area Planning Department, which is situated at 80, Churchgate, Stockport.

The posts are subject to the Local Government Superannuation Act, 1937, and the successful applicants will be required to act under the direction of the Area Planning Officer in the preparation of a Development Plan for the County and the Control of Development under the Town and Country Planning Act, 1947.

(a) PLANNING ASSISTANT. Salary A.P.T., III-IV (£450-£525).

Applicants for this position should have obtained the Intermediate Examination (or equivalent) of one of the recognised professional institutes, and preference will be given to candidates who have had training in architecture and some experience in town planning.

(b) JUNIOR PLANNING ASSISTANT. Salary A.P.T., I-II (£390-£465).

Applicants for this position should have had training in a planning, architectural, surveying or engineering office.

Forms of application, together with details of the duties and conditions attaching to the appointments, may be obtained from me on receipt of a stamped and addressed foolscap envelope, and applicants should state which form they require.

The last date for the receipt of completed applications is Saturday, the 15th April, 1950.

KENNETH O. MALE, County Planning Officer. 3925
Bridgegate House, Lower Bridge Street, Chester.

SURREY COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of PRINCIPAL ASSISTANT QUANTITY SURVEYOR, at a commencing salary of £300 per annum, rising by annual increments of £25 to a maximum of £300 per annum, plus London weighting of £30 per annum.

Applicants must be Members of the Royal Institute of Chartered Surveyors, qualified in Sub-Division III (Quantities), and have not less than 20 years' experience of Quantity Surveying on major contracts, including adjustment of final accounts.

Applicants should give full details of professional training, experience, all appointments held and present salary; names of three referees, and be accompanied by copies of three recent testimonials.

The appointment will be subject to the provisions of the Local Government Act, 1937, and the successful applicant will be required to pass a medical examination.

Applications should be sent to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, not later than the 15th April, 1950.

Canvassing, either directly or indirectly, will disqualify a candidate from consideration. The Council will be unable to provide any housing accommodation, and the successful applicant will be expected to make his own arrangements in this direction.

DUDLEY AUKLAND, Clerk of the Council. 3873
County Hall, Kingston-upon-Thames.

NATIONAL COAL BOARD—WEST MIDLANDS DIVISION.

Applications are invited for the following appointments with Headquarters at Himley Hall, near Dudley, Worcs.

TWO ARCHITECTS, Grade II. Salary scale £450-£525 to £700. Candidates must be Associate Members of the R.I.B.A. or equivalent, and should have experience in the preparation of survey sketch plans, contract drawings, specifications, site supervision, etc.

ONE ARCHITECTURAL ASSISTANT, Grade I. Salary scale £410-£520 to £550. Applicants should be able to prepare sketch plans and working drawings from rough sketches, and have a good knowledge of construction and have passed the Intermediate Examination of the R.I.B.A.

ONE QUANTITY SURVEYOR, Grade II. Salary scale £450-£525 to £700. Applicants should be Corporate Members of the R.I.C.S. (Quantities Section), and should be fully experienced "worker up," able to prepare estimates of small works, take measurements on site, check accounts, and be familiar with the requirements under the various building controls.

Posts are eligible for the Board's Superannuation Scheme.

Applications, giving age, qualifications, experience, etc., should be made as soon as possible to the Establishment officer, National Coal Board, West Midlands Division, Himley Hall, Dudley, Worcs.

Only those required for interview will be notified. 3878

POST OF ASSISTANT GOVERNMENT TOWN PLANNER (TEMPORARY).
DEPARTMENT OF TOWN AND COUNTRY PLANNING, CEYLON.

The Government of Ceylon invites applications for the above post on the salary scale £1,050, rising by four annual increments of £50 to £1,250. The selected candidate may be offered a salary higher than the initial provided his qualifications and experience warrant it. Applicants must not be more than 40 years of age on 1st March, 1950, and should be Associate Member of the Town Planning Institute of England and Associate Members of the Royal Institute of British Architects, and have practical experience in Town Planning and Housing.

(2) Further particulars may be obtained from the Office of the High Commissioner for Ceylon in London, 25, Grosvenor Square, W.1.

(3) Applications by letter should reach the Office of the High Commissioner not later than 22nd April, 1950. 3877

METROPOLITAN BOROUGH OF CHELSEA.

ARCHITECTURAL STAFF.

Applications are invited for the following appointments in the Department of the Borough Engineer and Surveyor:—

(a) ARCHITECTURAL ASSISTANT (A.P.T., Grade V). Salary £525 to £570 per annum.

The person appointed will be required to assist with the design of new dwellings and the conversion of existing houses into flats, and must be competent to prepare working and detail drawings. Candidates should have had sound architectural training and experience, and preference will be given to candidates who have already passed the Intermediate Examination of the R.I.B.A.

(b) SENIOR ARCHITECTURAL DRAUGHTSMAN (A.P.T., Grade IV). Salary £480 to £525 per annum.

Candidates must have a sound knowledge of architectural drawing and building construction and the measurement of existing buildings.

(c) JUNIOR ARCHITECTURAL DRAUGHTSMAN (A.P.T., Grade II). Salary £425 to £465 per annum.

The appropriate London weighting will also be paid in addition to the above salaries.

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

Applications, endorsed "Architectural Staff," should state age, particulars of education, qualifications, training and experience, and give the names of three referees. They must reach the undersigned not later than 14th April, 1950.

Canvassing, directly or indirectly, will disqualify.

JOHN C. KITCHIN, Town Clerk. 3876
Town Hall, King's Road, Chelsea, S.W.3.

BRITISH ELECTRICITY AUTHORITY.

EASTERN DIVISION.

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

ASSISTANT ARCHITECT.

Applicants should have had experience in the design and alteration of industrial buildings. The commencing salary will be within the range of £636-£734 per annum, depending upon experience and qualifications.

The appointment will be superannuable in accordance with the British Electricity Authority and Area Boards Superannuation Scheme.

Applications, stating age, experience, and present position, and endorsed with the appointment sought, should be submitted to arrive not later than 14th April, 1950, to the Divisional Controller, British Electricity Authority, Eastern Division, Northmet House, Southgate, N.14.

W. N. C. CLINCH, Controller. 3849
Northmet House, Southgate, N.14.

BOROUGH OF KEIGHLEY.
BOROUGH ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments on the Permanent Staff:—
(a) ARCHITECTURAL ASSISTANT, Grade II. Salary scale £420-£465.

(b) QUANTITY SURVEYING ASSISTANT, Grade I. Salary scale £390-£435.
Applicants for position (a) should possess general architectural experience. Experience in Municipal Housing work and Schools would be an advantage.

Applicants for position (b) to have experience in measuring up, checking contractors' accounts, and in the taking off of Quantities.

Applications to be made upon the prescribed form, to be obtained from the undersigned, to whom same must be returned accompanied by copies only of two recent testimonials, not later than first post Thursday, 13th April, 1950. In applying for the form, please state for which appointment.

E. G. FELGATE, A.R.I.B.A.,

Borough Architect.

Borough Architect's Department,
College Street, Keighley. 3875

BOROUGH OF SLOUGH.
BOROUGH ENGINEER'S DEPARTMENT.
APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for the permanent appointment of Assistant Architect, on Grade A.P.T., V, of the National Scales, at a commencing salary of £520 per annum, rising, on satisfactory service, by two annual increments of £15 and one of £20 per annum to a maximum of £570 per annum. Applicants must be Registered Architects, and preference will be given to those who have had experience with a Local Authority.

Applicants must give details of age, marital state, qualifications, present and previous appointments, with dates, technical training and experience, whether related to any member or senior officer of the Council, and the names of two Architects to whom reference can be made.

The appointment will be subject to (i) the provisions of the Local Government Superannuation Act, 1937; (ii) the National Scheme of Conditions of Service; (iii) the satisfactory passing of a medical examination by the successful candidate; and (iv) termination by one month's notice on either side.

The Council is unable to assist the successful candidate with housing accommodation.

Applications, in sealed envelopes, endorsed "Assistant Architect, Grade V," must reach the undersigned not later than noon on Wednesday, 12th April, 1950.

Canvassing, directly or indirectly, will disqualify.

NORMAN T. BERRY,

Town Clerk.

Town Hall, Slough.
23rd March, 1950. 3846

THE POLYTECHNIC, 309, REGENT STREET, W.1.
SCHOOL OF ARCHITECTURE, SURVEYING, AND BUILDING.

Applications are invited for the post of SENIOR ASSISTANT, with special responsibility for the courses in SURVEYING.

The full-time course prepares students for the First and Intermediate Examinations of the Royal Institution of Chartered Surveyors in the Building and Quantity Surveying sub-section, and the evening course prepares students for the First, Intermediate and Final Examinations in the Building and Quantity Surveying and the Valuations sub-sections.

Candidates must possess the appropriate professional qualifications and should have had both teaching and practical experience.

Salary scale commences at £700 per annum, rising by annual increments of £25 to a maximum of £800, plus London allowance and possibly additional allowances in respect of graduateship and training, subject to the usual deduction for superannuation.

Further particulars and form of application, which should be returned within two weeks of the appearance of this advertisement, may be obtained by sending a stamped addressed foolscap envelope to the undersigned.

J. C. JONES,

Director of Education. 3844

CITY OF PORTSMOUTH.
CITY ARCHITECT'S DEPARTMENT.

Applications are invited from Fellows or Associates of R.I.B.A. for the appointment of SENIOR ARCHITECT, Grade IX (£750-£900). The person appointed will be required to lead a team engaged on the re-building of the Portsmouth Guildhall.

The commencing salary will not necessarily be at the minimum of the Grade.

A special subsistence allowance may be paid to a married applicant for a period of six months after taking up the appointment if he is unable to secure housing accommodation immediately.

Applications, setting out in tabular form, name, age, qualifications, present post and salary, previous posts with dates, details of experience, with names of three referees, must be delivered to the undersigned not later than 10 a.m. on Wednesday, 19th April, 1950.

Canvassing will disqualify.

V. BLANCHARD,

Town Clerk.

City Council Chambers,
1, Clarence Parade, Portsmouth.
20th March, 1950. 3865

LONDON TRANSPORT EXECUTIVE.

Applications are invited for vacancies in the Office of the Architect as set out below.

The commencing salary within the ranges indicated will be determined according to age, qualifications and experience.

The appointments are subject to a medical examination.

There may be opportunities for establishment to the permanent staff, which would involve membership of a Contributory Superannuation Scheme.

Canvassing, either directly or indirectly, will disqualify.

ASSISTANT ARCHITECTS (Ref.: F/EV.117).

Applicants must be Chartered or Registered Architects of a good standard of professional training and experience. The duties include the control of a small unit of Architectural Assistants and Draughtsmen and the preparation of schemes and working drawings under the supervision of a Senior Assistant Architect.

Salary range £600-£700 per annum, with prospects of further advancement.

ARCHITECTURAL ASSISTANTS (Ref.: F/EV.118).

Applicants must have a good background of architectural training and office experience.

The duties include the preparation of schemes and working drawings under the supervision of an Assistant Architect.

Salary range £500-£560 per annum, with prospects of further advancement.

ARCHITECTURAL DRAUGHTSMEN (Ref.: F/EV.119).

Applicants must be good draughtsmen, capable of preparing sketch and working drawings under supervision. They must show aptitude for architectural design and will be expected to study for the professional qualifying examinations.

Salary range £260-£470 per annum.

EXECUTIVE ASSISTANT (STRUCTURAL DESIGN) (Ref. F/EV.120).

Applicants must hold professional qualifications and be experienced in the design of steel and reinforced concrete construction as applied to architectural buildings.

The duties include the control of a small unit of Assistants and Draughtsmen, calculations for and preparation of working drawings for steel and reinforced concrete frames and other constructional details, under the supervision of the Senior Executive Assistant in charge of the special construction section.

Experience of large span structures for road services would be an advantage.

Salary range £600-£700 per annum, with prospects of further advancement.

ENGINEERING ASSISTANT (STRUCTURAL DESIGN) (Ref. F/EV.121).

Applicants must have a good background of training and practical experience in the design of steel and reinforced concrete as applied to architectural buildings.

The duties include calculations for and preparation of working drawings for steel and reinforced concrete frames and other constructional details of buildings under the supervision of an Executive Assistant (Structural Design).

Salary range £500-£560 per annum, with prospects of further advancement.

STRUCTURAL ENGINEERING DRAUGHTSMEN (Ref.: F/EV.122).

Applicants must be good draughtsmen, able to design simple structures and prepare details under supervision, and will be expected to study for professional qualifying examinations.

Salary range £260-£470 per annum.

Applications, giving full details of age, professional and other qualifications, and experience, and quoting the appropriate reference number, should be sent within 14 days of the appearance of this advertisement, to the Staff Officer, London Transport Executive, 55, Broadway, S.W.1.

For acknowledgment, enclose addressed envelope.

17th March, 1950. 3883

COUNTY BOROUGH OF BURNLEY.
BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of SENIOR MAINTENANCE ASSISTANT, at a salary in accordance with Grade Va of the National Scales (£550-£610 per annum).

Applicants should have had considerable experience in the maintenance of buildings, in the preparation of estimates, specifications, quantities, and plans for this type of work. It will be an advantage if the applicant is a qualified Architect or Surveyor, or has considerable practical experience in building construction.

Conditions of service are those formulated by the National Joint Council, and the appointment is on the established staff and subject to the provisions of the Local Government Superannuation Act, 1937, the successful applicant being required to pass a medical examination. The appointment is terminable by one month's notice on either side.

Canvassing, either directly or indirectly, will disqualify the candidates, and any relationship to a member or senior officer of the Council must be clearly stated in the application.

Forms of application may be obtained from the Borough Engineer and Surveyor, 22-24, Nicholas Street, Burnley, to whom applications should be returned in the envelope provided not later than 12 noon on Wednesday, the 12th April, 1950.

C. V. THORNLEY,

Town Clerk.

Town Hall, Burnley.
March, 1950. 3856

URBAN DISTRICT COUNCIL OF PONTPOOL.
APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the post of Architectural Assistant on the staff of the Architect's Department to the above Council, at a salary in accordance with the National Scale, Grade A.P.T., VI, i.e., £595-£660.

Applicants should be Members of the R.I.B.A., and preferably to have had experience of Council Housing Estates. A knowledge of Quantities is essential.

Housing accommodation, if necessary, will be provided for the successful applicant.

The post will be subject to the provisions of the Local Government Superannuation Act, 1937, and the National Conditions of Service. The successful applicant will be required to pass a medical examination. The appointment will be subject to one month's notice on either side.

Applications, stating age, past and present appointments, qualifications and experience, accompanied by copies of not more than two recent testimonials, should be delivered to the undersigned not later than Tuesday, the 18th day of April, 1950. Canvassing will disqualify.

H. COOK,

Clerk of the Council. 3862

Town Hall, Pontpool.
COUNTY BOROUGH OF DONCASTER
EDUCATION COMMITTEE.

EDUCATION ARCHITECT'S SECTION.
Applications are invited for the post of Temporary ARCHITECTURAL ASSISTANT in the above section at a commencing salary of £480 per annum, rising by annual increments of £15 to £525 per annum.

Should the person appointed prove suitable a permanent post may be created.

Applicants should have passed the Intermediate Examination of the R.I.B.A. or its equivalent and should have had some practical office experience, preferably of contemporary school buildings.

The person successful will be appointed to the staff of the Chief Education Officer and work under the direction of the Education Architect (W. W. Thomas, A.R.I.B.A.).

The appointment will be subject to one month's notice on either side and to the provisions of the local Government Superannuation Act, 1937. The successful applicant will be required to pass a medical examination.

Applications, suitably endorsed, giving age, qualifications, past and present appointments, with full details of experience, together with two references, must reach the undersigned not later than the 11th April, 1950.

V. H. HOSKIN,

Chief Education Officer.

Education Office, Doncaster.
March, 1950. 3861

B.E.C. invites applications for a post of CLERK OF WORKS, Class 1, for building work on the construction of a Television Transmitting Station at Kirk o' Shots, near Airdrie. Experience as Clerk of Works on first-class building work is necessary. Applicants must forward full details of their qualifications and experience, giving in chronological order a list of firms by whom they have been employed, with dates and a brief description of the work on which they were engaged.

Salary is in a grade which has a maximum salary of £680 per annum and annual increments of £30. Applications should reach the Engineering Establishment Officer, Broadcasting House, London, W.1, within seven days of the appearance of this advertisement. 3872

LIVERPOOL REGIONAL HOSPITAL BOARD.
Applications are invited from suitably qualified persons for the following permanent appointments in the Regional Architect's Department on the Headquarters Staff of the Board:—

(a) ASSISTANT ARCHITECT, at a salary in accordance with A.P.T., Grade VI, £595-£660 per annum.

Applicants should be Associates of the Royal Institute of British Architects, and must have a good general experience, and ability in design and construction.

(b) ASSISTANT ARCHITECT, at a salary in accordance with A.P.T., IV, £480-£525 per annum.

Applicants should have passed the Intermediate Examination for Associateship of the Royal Institute of British Architects, and must have a good general experience and ability in design and construction.

(c) ASSISTANT QUANTITY SURVEYOR, at a salary in accordance with A.P.T., Grade V, £520-£570 per annum.

Applicants should have passed the Intermediate Examination of the Royal Institute of Chartered Surveyors (Quantities Sub-division), and should have had considerable experience in a Quantity Surveyor's office in working up, abstracting and billing; also some experience in taking off is essential.

All the above appointments will be subject to the National Health Service (Superannuation) Regulations, 1947/9, and the successful candidates may be required to pass a medical examination.

Applications, stating age, education, qualifications, experience, present and previous appointments, salary, War service, and clearly stating the post applied for, together with the names and addresses of three referees, should be sent to the undersigned at 19, James Street, Liverpool, 2, not later than 15th April, 1950.

VINCENT COLLINGE,

Secretary to the Board. 3860

STAFFORDSHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. APPOINTMENT OF ARCHITECTURAL STAFF.

Applications are invited for the above on the National Salary Scales—
Grade V: £590-£570 per annum.
Grade V(a): £550-£610 per annum.
Grade VI: £595-£660 per annum.
Grade VII: £635-£710 per annum.
Grade VIII: £685-£760 per annum.

according to experience and qualifications.
A temporary lodging allowance of £1 5s. per week is payable for a period not exceeding six months, plus 3rd class return fare home every two months, to newly appointed married staff whose homes are outside this geographical County, and who are unable to secure housing accommodation.

The appointments will be subject to the Scheme of Conditions of Service of the National Joint Council and to the provisions of the Local Government Superannuation Act, 1937.

Applications, stating the particular appointment applied for and giving full details of experience and qualifications, age, etc., together with copies of three recent testimonials, should be delivered to the County Architect, Martin Street, Stafford, within 14 days of the appearance of this advertisement.

Applicants must disclose whether or not they are related to any member or senior officer of the Council.

T. H. EVANS,

Clerk of the County Council.
County Buildings, Stafford.
20th March, 1950. 3890

COUNTY BOROUGH OF WEST HARTLEPOOL.

Applications are invited for the appointment of TWO ASSISTANT ARCHITECTS, Grade A.P.T. VI (£595-£660), in the Borough Architectural Department.

The appointments are subject to the Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services (with the exception of paragraph 39), and the provisions of the Local Government Superannuation Act, 1937. The successful applicants will be required to pass a medical examination.

Applicants should be Associate Members of the R.I.B.A., and have good knowledge and experience of schools.

Applications, stating age, qualifications, previous and present appointments, details of experience, together with copies of three recent testimonials, are to be sent to S. M. Richmond, Esq., F.R.I.B.A., A.M.T.P.I., Borough Architect, Municipal Buildings, West Hartlepool, not later than Monday, 10th April, 1950.

The Council are prepared to consider the allocation of housing accommodation to the successful applicants if required.

ERIC J. WAGGOTT,

Town Clerk.
Municipal Buildings, West Hartlepool.
March, 1950. 3892

RURAL DISTRICT COUNCIL OF MORPETH. ENGINEER AND SURVEYOR'S DEPARTMENT. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant, at a salary in accordance with Grade V of the A.P. and T. Division (£590-£570).

Applicants should have good architectural experience, and be competent to undertake the preparation of working drawings, details and quantities for housing schemes. Preference will be given to Registered Architects.

The appointment will be terminable by one month's notice on either side, and will be subject to the Provisions of the Local Government Superannuation Act, 1937, and to the successful candidate passing a medical examination.

The conditions of service will be those of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services.

The Council will be prepared, if necessary, to assist the successful candidate to obtain housing accommodation.

Applications, stating age, qualifications and experience, together with one testimonial and the addresses of two persons to whom reference may be made, should be forwarded to reach the undersigned not later than Saturday, 22nd April, 1950.

J. B. ANNETT,

Clerk to the Council.
Council Offices, 15, Bridge Street, Morpeth,
Northumberland. 3891

HUNTINGDONSHIRE COUNTY COUNCIL. TOWN AND COUNTRY PLANNING (ARCHI- TECTURAL) ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant, on the staff of the County Planning Officer, at a salary in accordance with Grade A.P.T. VI, of the National Scale of Salaries, i.e. £595 to £660 per annum.

Applications, stating age, education, technical qualifications, and experience, past and present appointments, accompanied by copies of two recent testimonials or the names and addresses of two referees, to be submitted as soon as possible to Mr. T. H. Longstaff, M.I.C.E., F.R.I.B.A., M.T.P.I., County Planning Officer, Walden House, Huntingdon, but in any case not later than Monday, 17th April, 1950.

JOHN KELLY,

Clerk of the County Council.
County Buildings, Huntingdon.
23rd March, 1950. 3889

RURAL DISTRICT COUNCIL OF NEW FOREST.

QUANTITY SURVEYOR (GRADE VII).

Applications are invited for a Quantity Surveyor, A.P.T., Grade VII, who should have experience in taking off, abstracting, billing, measuring up, and settling final accounts, and preference will be given to an Associate R.I.C.S. (Quantities).

The applicant should have had at least 5 years' practical experience with a Local Authority or practising Quantity Surveyor.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and will be terminated by one month's notice on either side.

Applications, stating age, qualifications, experience, present appointment and salary, together with the names of three persons to whom reference may be made, are to be delivered to the undersigned not later than the 18th April, 1950.

The Council will give consideration to applicants in need of accommodation.

L. C. ADAMS,

Engineer and Surveyor.
Council Offices, Lyndhurst, Hants. 3855

GLENROTHES DEVELOPMENT CORPORATION.

Applications are invited for an appointment of SENIOR ARCHITECT, Salary £750, by annual increments of £50 to £900 per annum. Applicants should be Corporate Members of the R.I.B.A. and should have had experience of all types of public buildings appropriate to New Town development. An additional Town Planning qualification will be an advantage.

The Corporation intend to make housing provision and will give all assistance in securing temporary accommodation.

The post is superannuable under the Local Government Superannuation (Scotland) Act, 1937, and the successful candidate will require to pass a medical examination.

Canvassing, directly or indirectly, of members of the Corporation will constitute an absolute disqualification.

Applications, giving full particulars of the candidate's age, qualifications and experience, together with copies of not more than three recent testimonials, must reach the Secretary, Glenrothes Development Corporation, Auchmuty House, Markinch, not later than 5th April, 1950.

22nd March, 1950. 3868

COUNTY BOROUGH OF SOUTHEAST-ON-SEA EDUCATION COMMITTEE.

SOUTHEAST-ON-SEA MUNICIPAL COLLEGE.

Principal: R. W. Wilson, B.Sc.(Eng.), A.C.G.I., Whit Sch., D.I.C., A.M.I.E.E.

DEPARTMENT OF ARCHITECTURE, SURVEYING AND BUILDING.

Head of Department: J. M. Scott, B.Arch., F.R.I.B.A.

Applications are invited for the post of LECTURER AND STUDIO INSTRUCTOR in the School of Architecture, which at present caters for the needs of about 80 full-time students of Architecture. Salary Burnham Scale, plus a special responsibility allowance of £80 per annum.

Particulars of the post and forms of application (S.A.E.) and should be returned not later than 14 days after the appearance of this advertisement.

H. BOYES WATSON,

Chief Education Officer.
Education Office, Warrior Square,
Southend-on-Sea. 3867

BOROUGH OF WESTON-SUPER-MARE. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments—

(a) TWO ASSISTANT ARCHITECTS. A.P.T., Grade VII, £635-£710 per annum.

Applicants should be Associate Members of the R.I.B.A., good designers and draughtsmen, with experience in the preparation of plans and contract documents for the construction of new houses. Preference will be given to persons who have had previous experience with a Municipal authority.

(b) QUANTITY SURVEYOR. A.P.T., Grade VI, £595-£660 per annum.

(c) ASSISTANT QUANTITY SURVEYOR. A.P.T., Grade V, £520-£570 per annum.

Applicants should be qualified by examination, and preference will be given to persons who are Associates of the Royal Institution of Chartered Surveyors (Quantity Surveyors' Division), and who have had previous experience with a Municipal authority in the preparation of Bills of Quantities for the construction of new houses and the supervision, measurement and settlement of final accounts in connection with such contracts.

The appointments will be subject to the Scheme of Conditions of Service of the National Joint Council, and one month's notice on either side at any time will be required to terminate the appointments.

The Council will provide the successful candidates with suitable housing units if considered necessary.

Applications, stating age, qualifications and experience, together with the names of three gentlemen to whom reference may be made, must be received, suitably endorsed, by the undersigned not later than 14th April, 1950.

J. R. FREER-HEWISH, A.M.I.C.E.,

M.I.Mun.E.,
Borough Engineer and Surveyor.
Town Hall, Weston-super-Mare.
March, 1950. 3887

LONDON COUNTY COUNCIL. HAMMERSMITH SCHOOL OF BUILDING AND ARTS AND CRAFTS, LIME GROVE, W.12. Part-time day STUDIO INSTRUCTORS re- quired for the school panel of teachers of archi- tectural drawing and design in the Architectural Course preparing students for the Intermediate and Final Examinations of the R.I.B.A.

Hammersmith is one of the R.I.B.A. "listed" schools providing approved full-time instruction in Architecture up to the R.I.B.A. Final Examinations.

Applications, giving full particulars of qualifications and experience and times available, should be sent to the Secretary of the School, from whom further information may be obtained. (383) 3870

COUNTY COUNCIL OF THE COUNTY OF LANARK.

PLANNING ASSISTANTS.

Applications are invited for the appointment of Planning Assistants on the established staff of the County Planning Department on the following salary grades—

A.P.T., Grade VIII (£685-£760).
A.P.T., Grade VII (£635-£710).
A.P.T., Grade IV (£480-£525).

Placing on the above grades will be in accordance with the qualifications and experience of applicants (maximum salary may be paid). The appointments will be subject to the provisions of the Local Government Superannuation (Scotland) Act, 1937, and successful candidates will require to pass a medical examination.

Canvassing, directly or indirectly, will be a disqualification.

Applications, stating age, qualifications and experience, and the names and addresses of three referees, should be forwarded to the undersigned not later than 14th April, 1950.

WM. C. BROWNIE,

County Clerk.
Lanarkshire House,
191, Ingram Street, Glasgow, C.1. 3879

MONTGOMERYSHIRE COUNTY COUNCIL. PRIMARY INFANT SCHOOL AT NEW TOWN.

APPOINTMENT OF CLERK OF WORKS.

Applications are invited for the temporary appointment of Clerk of Works for this building project for a period of approximately 18 months. Inclusive salary of £10 per week. Applicants must have a thorough knowledge of the building trade and be conversant with plans, specifications and bills of quantities, competent to set out work, including levelling, check and measure up variations, keep records, and write reports to the County Architect. The appointment may be determined by one month's notice in writing on either side.

Applications in candidate's own handwriting, stating age, qualifications, experience, previous appointments and when able to take up duties, accompanied by copies of not more than two recent testimonials, must reach the undersigned not later than Monday, 10th April, 1950.

Canvassing disqualifies.

P. E. WHITE,

Clerk of the County Council.
County Offices, Welshpool.
21st March, 1950. 3854

COUNTY BOROUGH OF BURY. BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT in the Borough Engineer's Department.

Applicants should possess the Intermediate Certificate of the Royal Institute of British Architects or equivalent qualification. Salary A.P.T., Grade II (£420-£465), III (£450-£495), or IV (£480-£525), National Scales, according to qualification.

The appointment will be subject to the Local Government Superannuation Act, 1937, and to medical examination.

Applications, stating age, details of training, qualifications and experience, together with the names and addresses of two persons to whom reference may be made, must reach me not later than the 12th April, 1950.

EDWARD S. SMITH,

Town Clerk.
Municipal Offices, Bank Street, Bury.
24th March, 1950. 3845

WESTERN AUSTRALIAN PUBLIC SERVICE. ARCHITECTS FOR STATE HOUSING COMMISSION.

Applications are invited for TWO ARCHITECTS, to work with the State Housing Commission of Western Australia.

Salary range £657-£777 (Australian currency), with opportunities for advancement to higher positions.

Qualification for appointment is eligibility for Associate Membership of the Royal Institute of British Architects.

Appointees will be eligible to join the Superannuation Fund—a contributory scheme under which the State provides 60 per cent. of pension on retirement.

Travelling expenses up to a maximum of £300 sterling for a married man and £150 sterling for a single man will be paid, subject to an agreement being entered into by the appointee to serve for a period of three years.

Applications in duplicate, stating age, marital state, qualifications and experience, with copies of testimonials, should be forwarded to the Agent-General for Western Australia, Savoy House, 115, Strand, London, W.C.2, to reach him not later than 21st April, 1950. 3874

BOROUGH OF EDMONTON.
ARCHITECTS' DEPARTMENT.
The Borough Council require:
ARCHITECTURAL ASSISTANT (Grade A.P.T., VI, £625-£20 (2) and £25 (1) to £690 per annum).
Candidates should be Associates of the R.I.B.A. or equivalent and have had experience in Housing Flats and General Building work.
Full particulars, forms of application, and conditions of service from the undersigned, to whom completed applications must be returned not later than 8th April, 1950.

H. BACKHOUSE.

Town Hall, Edmonton, N.9. 3858

MANCHESTER REGIONAL HOSPITAL BOARD.

Applications are invited for the under-mentioned permanent appointments in the Architect's Department of the Board's Headquarters Staff. National Health Service conditions and superannuation apply to each post.

(a) **SENIOR ASSISTANT ENGINEER.** A.P.T., Grade VIII, £685-£760 a year. Applicants should be Members of the Institute of Mechanical Engineers or the Institute of Heating and Ventilating Engineers. Experience in the design of hospital heating, hot water, ventilating, laundry and kitchen installations and services is essential. Duties will include the preparation of technical reports and the supervision of contracts.

(b) **ASSISTANT ENGINEER (ELECTRICAL).** A.P.T., Grade VII (£635-£710 a year). Applicants should be Associate Members of the I.E.E. or hold other professional qualification, and should have experience in the preparation of electrical schemes, assessment of specifications and drawings, and in the design of electrical installations, including lighting and power, alarm systems, etc. Hospital experience is desirable but not essential.

Applications, stating age, qualifications and experience, and the names and addresses of not more than three referees, should be received by the undersigned not later than 13th April, 1950.

J. GIBBON, Secretary of the Board.

1, North Parade, Parnsonage Gardens, Manchester, 3. 3866

CITY AND COUNTY OF KINGSTON-UPON-HULL.

Applications are invited for **ASSISTANT ARCHITECT, A.P.** and **T. Grade VI** (£595-£660). The appointment will be subject to one month's notice on either side and to the National Scheme of Conditions of Service. Application forms, to be obtained from the undersigned, should be returned complete on or before 17th April, 1950.

ANDREW RANKINE, A.R.I.B.A.

Guildhall, Kingston-upon-Hull. 3857

BOROUGH OF MAIDENHEAD.
ARCHITECTURAL ASSISTANT.

Applications are invited for the position of Architectural Assistant in the Borough Engineer and Surveyor's Department, on Grade IV of the National Scale (£480-£515-£525).

Applicants must have had good architectural experience, and preference will be given to those who have passed the Intermediate examination of the R.I.B.A.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, to the National Joint Council's Scheme of Conditions of Service, and to the selected candidate passing a medical examination.

Applications, stating age, qualifications and full details of experience, together with copies of three recent testimonials, must be delivered to me not later than 13th April, 1950, in envelopes endorsed "Architectural Assistant." Canvassing, directly or indirectly, will be a disqualification.

The Council may be in a position to offer housing accommodation to the successful candidate.

STANLEY PLATT.

Guildhall, Maidenhead. 3848

LONDON COUNTY COUNCIL.
BRIXTON SCHOOL OF BUILDING,
FERNDALE ROAD, S.W.4.

Part-time Day or Evening Visiting **TEACHERS OF QUANTITY SURVEYING** are required as soon as possible.

Applicants should be Corporate Members of the R.I.C.S. and have had suitable technical experience.

Application forms (stamped addressed envelope) can be obtained from the Secretary. (376) 3864

CITY OF COVENTRY ARCHITECTURAL AND PLANNING DEPARTMENT.

The City Architect and Planning Officer, Mr. Donald Gibson, invites applications from ARCHITECTS interested in contemporary schemes for a vacancy on Grade A.P.T., VII, on the permanent staff of this Department.

The person appointed will be working in the first place on a new College of Further Education which must be commenced in this calendar year. Will interested persons kindly apply to the City Architect for a copy of the usual form of application.

Housing accommodation may be made available in certain circumstances to the successful applicant if so desired.

City Architectural and Planning Department.

14, Warwick Row, Coventry. 3847

COUNTY BOROUGH OF SOUTHAMPTON.
BOROUGH ARCHITECTS' DEPARTMENT.

Applications are invited for the following appointments:—

(a) **SENIOR ASSISTANT ARCHITECTS,** Grade VI (£595-£660 p.a.).

(b) **JUNIOR QUANTITY SURVEYING ASSISTANT,** General Division (male, £135-£385 p.a.).

Housing accommodation may be made available in the case of appointments (a).

Applications, on forms obtainable from L. Berger, Dip.Arch., A.R.I.B.A., Borough Architect, Civic Centre, Southampton, must be returned not later than 14th April, 1950. 3884

COUNTY BOROUGH OF CARLISLE.
CITY ENGINEER'S DEPARTMENT.

APPOINTMENT OF SENIOR ASSISTANT ARCHITECT.

Applications are invited for the above appointment on the permanent staff at a salary of £595-£660 (A.P.T., Grade VI).

Applicants should be Members of the Royal Institute of British Architects, and must have had good general experience in the design and construction of Schools.

The successful candidate will be engaged at the outset on Educational Works, but may be required also for General Architectural Work or Housing. Experience of this character, therefore, would be an advantage.

Housing accommodation will be provided for the successful applicant if required.

Forms of application and full particulars of duties and conditions of appointment can be obtained from the City Engineer, 18, Fisher Street, Carlisle, to whom they must be returned not later than Friday, 28th April, 1950.

H. D. A. ROBERTSON.

Town Clerk's Office, 15, Fisher Street, Carlisle. 3888

BURGH OF MUSSELBURGH.

Applications are invited for the post of **JUNIOR ASSISTANT** in the Architectural Department of the Burgh Surveyor's Office, Musselburgh. Salary according to Local Government scale. Applications, stating age and experience (if any), to be lodged with the Burgh Surveyor, Municipal Offices, Musselburgh, not later than Saturday, 15th April. 3894

CUMBERLAND COUNTY COUNCIL.

Applications are invited for the following appointments on the permanent establishment of the Architect's Department:—

(a) **BUILDING INSPECTOR.** A.P.T., Grade IV, £480-£525.

Applicants must have had practical experience of building, supervision of building work, and maintenance of property, and should be able to prepare reports. Previous experience with a public Authority is desirable. The person appointed will be required to provide a motor car, and a car allowance will be payable for County Council duties, in accordance with the Council's Scale.

(b) **JUNIOR ARCHITECTURAL ASSISTANT.** A.P.T., Grade III, £450-£494.

Forms of application for the above posts, together with further particulars and conditions of appointment, may be obtained from John H. Haughan, F.R.I.B.A., County Architect, 15, Portland Square, Carlisle, not later than Monday, 10th April, 1950.

G. N. C. SWIFT.

Clerk of the County Council. 3886

SCOTTISH SPECIAL HOUSING ASSOCIATION, LTD., invite applications for the following Superannuable appointments: (a) **ESTIMATOR,** £700-£25-£900; (b) **QUANTITY SURVEYOR,** Grade II, £450-£25-£675. No bonus is payable in addition to the salary stated. Forms of application with full particulars can be obtained from the Secretary, 15/21, Palmerston Place, Edinburgh, 12. 3895

Competitions

March, 1950.

6 lines or under, 12s. 6d.; each additional line, 2s.

COMPETITION.

ARCHITECTS are invited to submit plans for alterations to Club Premises; the Architect of the accepted plan will receive a prize of £50.

An outline of requirements may be had on application to the Secretary, Comrades Club, Whitley Bay, Northumberland. 3860

Architectural Appointments Vacant

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

ASSISTANT required in busy Berkshire office, with work in all parts of the country; an opportunity for a man with initiative and drive to show his capabilities; good prospects for a capable man. Apply, with full particulars of experience and salary required, to Box 3342.

ARCHITECTURAL ASSISTANT required in Maidenhead for large Practice of London and Provincial work; applicants must be capable of supervising work and conversant with by-laws. Reply, with particulars of experience and salary required, to Box 3343.

DRAUGHTSMAN, with some Architectural leaning, required for design and layout of Canteen and Kitchen equipment; qualifications, age, salary, etc., to W. & G. Sissons, Ltd., St. Mary's Road, Sheffield, 2, makers of stainless steel sinks. 3784

SENIOR ARCHITECTURAL ASSISTANTS required by United Dairies, Limited; applicants to state age and experience in the preparation of surveys, sketch plans and working drawings, and be able to supervise work in progress. Apply in writing, stating qualifications and salary required, to Chief Architect, 31, St. Petersburg Place, London, W.2. 3576

SCHERRER & HICKS, F.F.R.I.B.A., 19, Cavendish Square, W.1, require **ONE SENIOR and ONE JUNIOR ASSISTANT** in their London office (Museum 1195), and **TWO JUNIOR ASSISTANTS and ONE SENIOR ASSISTANT** in their Manchester office (Eccles 3967). 3745

TWO SENIOR ARCHITECTURAL ASSISTANTS, with Industrial and Housing experience, required in North-West London office; applicants should be from Intermediate to Final standard; salary £400-£700, according to qualifications and experience. Apply Sydney Greenwood, A.R.I.B.A., 33, Buns Lane, London, N.W.7. 3793

STRUCTURAL Engineering Co., near London, engaged upon light-medium steel structures, require **DRAUGHTSMAN,** fully experienced in designing, detailing and estimating; must be prepared for occasional travel to follow up enquiries, and preference will be given to man able to also introduce same; car an advantage. **JUNIOR DRAUGHTSMAN** also required. State full details of experience and salary in first instance, Box 3797.

LOUIS DE SOISSONS, A.R.A., & PARTNERS have vacancies for a qualified **SENIOR ASSISTANT and JUNIOR ASSISTANTS** of Intermediate standard in their Plymouth Office. The work is interesting and varied, and includes Schools, Hospitals, Churches, Shops and Housing. There are excellent opportunities for keen and capable men, and salaries according to age and experience, in keeping with National Scales, are offered to suitable applicants. Applications in writing, giving details of training, age, experience, and past and present employment, should be sent to 11, The Crescent, Plymouth. 3805

ARCHITECTURAL ASSISTANT required, up to Inter. standard, by Chartered Architects in West End; good opportunity in small progressive office. Write, stating age, office experience, and salary required, Box 3806.

ARCHITECTURAL ASSISTANT, Inter. standard, neat and efficient draughtsman essential, in small office, W.C.2 district; permanency and good prospects for suitable applicant. Apply, stating age, experience, and salary required, to Box 3603.

ARCHITECTURAL ASSISTANTS required, one Senior, able to take charge of and organise jobs at all stages, for which a sound knowledge of construction and standards of design are essential. Also an **ASSISTANT** of at least R.I.B.A. Intermediate standard, with some office experience. The work is of a varied nature, providing ample scope for good men. Write, stating full particulars of experience and salary required, Welch & Lander, F.F.R.I.B.A., 38, Gloucester Place, W.1. 3752

ASSISTANT ARCHITECT required for modern progressive practice; good prospects for man with sound ability. Please write, stating qualifications, experience, age and salary required, to Edward Narracott, A.R.I.B.A., 48, Torwood Street, Torquay. 3815

SENIOR and JUNIOR ARCHITECTURAL ASSISTANTS required in office of Architect having extensive work in connection with Passenger Transport undertakings. Juniors up to Intermediate standard—salary £250 to £400. Seniors over Intermediate standard—salary £400 to £700, according to qualifications and experience. Apply in first instance in writing, giving full particulars, to Alan A. Briggs, F.R.I.B.A., 15, Curzon Street, London, W.1. 3813

SENIOR ARCHITECTURAL ASSISTANT required for busy Leeds Office, with work in all parts of the country; excellent opportunity for capable man with initiative and drive; salary according to ability and experience; only keen, energetic and ambitious man need apply. Full particulars, etc., to Box 3816.

BURGESS, HOLDEN & WATSON, Architects & Surveyors, Beaconsfield (Tel. 1198), Bucks, have vacancy for young, neat, or qualified Assistant. Position not without prospects for right man. Reply, stating age, qualification, experience and salary required. 3942

ARCHITECTURAL ASSISTANT required in Mayfair office; Inter. standard; general practice; pension scheme; salary £400-£425, according to experience. Box 3835.

ARCHITECTS' SENIOR ASSISTANT also **JUNIOR,** for urgent industrial and other schemes; very interesting experience. Watson, Johnson & Stokes, Victoria Square, Birmingham, 2. 3638

REQUIRED at Company's Head Office, **ARCHITECTURAL ASSISTANT, A.R.I.B.A.**; varied work, mainly factory; five-day week; salary by arrangement. Box 3853.

ARCHITECT'S ASSISTANT required at end April. Write in confidence, stating age, experience, and salary, to W. Leslie Jones, L.R.I.B.A., 87, High Street, Great Missenden, Bucks. 3583

SENIOR and JUNIOR ARCHITECTURAL ASSISTANTS, also **SUPERVISING SURVEYORS**, required immediately for important school and industrial projects. Reply, stating age, experience, and salary required, to Wood & Kendrick & Williams, F./R.I.B.A., 57, Colmore Row, Birmingham, 5. 3538

ARCHITECTS. SENIOR ASSISTANTS required. Should have good knowledge of commercial and industrial buildings and contemporary design. Apply in writing to S.C.W.S., Ltd., Architectural Department, 119, Paisley Road, Glasgow, C.S. Envelopes to be endorsed "Architect." 2025

QUANTITY SURVEYORS. SENIOR ASSISTANTS required. Preferably with pre-war experience in Scheduling; probable costing; measuring and agreeing Final Measurements. Apply in writing to S.C.W.S., Ltd., Architectural Department, 119, Paisley Road, Glasgow, G.5. Envelopes to be endorsed "Surveyor." 2026

ASSISTANT of intermediate standard required to fill an important and progressive vacancy in busy office, Westminster area, where personal contact is encouraged, with good prospects; individuality and keenness essential; must be accurate and dependable, capable of accepting responsibility; salary by arrangement. Reply in confidence to Box 3861.

ASSISTANT required for Architect's office, Slough; Intermediate R.I.B.A. or Finalist seeking practical experience general practice, principally industrial work. Box 3843.

JUNIOR ASSISTANT ARCHITECT required for modern construction. Edgar Hoenig, L.R.I.B.A., 79/80, Petty France, S.W.1. Whitehall 2561. 3580

EXPERIENCED ASSISTANT wanted for busy provincial and country practice, as Senior under Principals; good practical knowledge essential. F. J. Lenton & Partners, Chartered Architects, Stamford. 3753

ARCHITECTURAL ASSISTANT, aged 30 or over, required in busy S.W. London Architect's office; must be capable of preparing working drawings for large blocks of flats, etc.; permanency and prospects to suitable applicant. Apply, stating salary, age, and experience, to Cessford Hall, F.R.I.B.A., "Grantham House," Putney Heath, S.W.15. 3869

ASSISTANT required for general practice; varied and interesting work over large area in North-West; able to take entire charge of contracts. Also one **JUNIOR** required. J. H. Martindale & Son, F.R.I.B.A., Architects, Cathedral Chambers, Castle Street, Carlisle. 3648

DRAUGHTSMAN (Architectural) required for Edinburgh University Works Department; salary in the range £350-£450, according to experience. Applicants familiar with alterations to large buildings preferred. The appointment is superannuable. Applications in writing to the Secretary to the University, Old College, South Bridge. 3893

A. R.I.B.A., or equal, with some experience in private practice required immediately in office with all-round practice. Commencing salary £550. Write to Naylor, Sale & Widdows, St. Mary's Chambers, Derby. 3896

ARCHITECTURAL ASSISTANTS of all grades, also **SHOPFITTING DRAUGHTSMAN** with practical experience, required in Architect's London office of large, expanding commercial organisation. Permanent and pensionable positions. Write full details of age, qualifications, experience, salary required, to Box P.T.418, Everetts Advertising, Ltd., 10, Hertford Street, W.1. 3899

ASSISTANT QUANTITY SURVEYOR, professionally trained, seeks post with congenial firm of Architects or Surveyors; accommodation essential; taking-off, billing, abstracting, variations. Apply Box 481.

QUALIFIED ASSISTANT, with good all round practical experience, including taking charge of contracts, seeks responsible position in progressive office in London. Box 483.

D. A. (Glas.), A.R.I.B.A. (32), with 10 years' experience, housing, industrial, farms; 3 years' Colonial service, schools, hospitals, public works; seeks permanent senior post; available immediately; anywhere considered Box 487.

CHARTERED ARCHITECT (34) desires change; fully experienced general architectural work; seeks responsible post in or near London or South Coast; min. salary £700. Box 490.

A. R.I.B.A., age 30, requires position of responsibility, with possibility of advancement; 8 years' experience in various types of building, including large scale schemes; Southampton or Portsmouth area desired; salary by arrangement. E. C. Sweetman, Hampton Chambers, Birmingham Road, Cowes, I.O.W. 489

B. Arch., A.R.I.B.A., age 37, requires position in Southampton or elsewhere in South of England. Reply to Box 491.

ARCHITECTURAL ASSISTANT, age 24, experience small factories, housing schemes, licensed premises, etc., preparation of working and detail drawings from sketch schemes, knowledge levelling and building survey, conversant drafting and interpretation of specifications, desires appointment small progressive office, North of Thames. Box 488.

Other Appointments Vacant

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

INTELLIGENT and enthusiastic, young man, with some knowledge of building construction and materials, wanted for unusually interesting selling job, mainly in London (full-time). Write, with full particulars of age, training, experience, salary required, to Box 366.

ESTIMATORS wanted; used to Brakepress work. Apply personally or by letter to Morris Singer Co., Ferry Lane Works, Forest Road, Walthamstow, E.17. 2143

ARCHITECTURAL Metalworkers require a **DESIGNER-DRAUGHTSMAN** of considerable merit; top salaried position for skilled man. Apply The Morris Singer Company, Hope House, 61, Peter Street, Westminster, S.W.1. 3564

SETTER-OUT wanted for Architectural Metalwork; good wages and ideal working conditions. Apply: The Morris Singer Co., Ltd., Ferry Lane, Forest Road, Walthamstow, E.17. 3524

BUILDING ESTIMATOR required, thoroughly conversant with building, estimating and quantities for industrial buildings. Write, stating age, education, experience, salary required, to Men's Employment Department, Cadbury Brothers, Ltd., Bournville. 3839

BUILDING Contractors require **ESTIMATOR AND SURVEYOR**; only fully experienced men, competent in all duties, considered. Address full details of experience, age, and salary to Smith Bros. (Construction), Ltd., Stratford Road, Birmingham, 11. 3851

G. LEEDS, Quantity Surveyors, 21, Victoria Street, Nottingham, urgently require **SITE MEASURING SURVEYORS**; please state age, experience, and salary required. 3863

SHOPFITTING and Exhibition **DESIGNER DRAUGHTSMAN** required; good salary paid for experienced man. Please write or 'phone for an appointment, David Esdaile & Co., Ltd., 30, Stannary Street, Kennington, S.E.11. Reliance 1666. 3862

MAX LOCK, Architect and Town Planning Consultant, requires **SECRETARY**, to work in Bedford, to assist in the Survey and Plan of the Borough; proficiency in shorthand-typing, interview reports, simple book-keeping essential. Apply, stating salary, experience, etc., to Max Lock, Alverbank, Alverstoke, Gosport. Hants. 3871*

Services Offered

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

MANUFACTURERS of exclusive hand-made Lampshades; architects' contracts carried out. J. & M. Beagley, 51, Great Ormond Street, London, W.C.1. CHancery 8959. 2397

ARCHITECTURAL MODELS and Dioramas. Edward J. Ashenden, A.R.C.A., 15, Chenil Studios, 183, Kings Road, S.W.3. Tel.: Flax 6103. 2566

COMPLETE Full-time Architectural Assistance offered by two competent Seniors (30); own office and car. B. C. Hahn & R. D. Edwards, 5, Station Parade, Elmers End, Beckenham, Kent. Tel. BEC. 1277. 3193

ARCHITECTS' and Surveyors' Design Service for Heating, Hot Water Services, Steam and Ventilation Schemes, carried out by experienced Engineers, A.M.I.H.V.E., M.R.San.I., A.M.I.San.E.; reasonable terms. 'Phone: Popegrove 2015. 3585

STRUCTURAL ENGINEERS (5), with considerable experience in R.C. and structural steelwork design and detailing, are available for part-time work. Box 3664.

QUANTITY SURVEYOR offers assistance to Architects in preparation of Bills of Quantities, etc., on fee sharing basis. Box 3637.

ARCHITECTURAL ASSISTANTS (A./A.R.I.B.A., A.A.Dip.) would like evening work to supplement holiday savings; surveys, tracing, working drawings, contemporary design, interiors, etc.; London area. Box 3802.

FIRST-CLASS Garden Layouts and Construction; difficult jobs tackled with zest and skill; Architects' commissions carried out to the letter; a lifetime's experience at your service. Alfred J. Cox (Gardens), Ltd., Stoke Poges, Bucks. 'Phone: Farnham Common 695. 3785

NOTICE TO ARCHITECTS, ETC.—A small group of fully qualified Architectural Assistants offer to assist professionals in the preparation of Designs, Working details, Surveys, Perspectives, etc., on part-time basis; superb draughtsmanship; moderate remuneration. Box 2932.

FREE-LANCE Surveyor offers Services to Architects requiring accurate surveys of land and buildings, levelling, contouring, etc.; own car and complete equipment. 2772

A. R.I.B.A., own practice, invites "Ghosting" or work in own office; South England and London. 3559

SENIOR ARCHITECTURAL ASSISTANT offers part-time service: Surveying, Industrial and Housing Design, Interiors and Exhibition Work, Working Drawings; London area. Box 3677.

REINFORCED CONCRETE ENGINEERS' Design, Calculations, Details and Bending Lists prepared for all types of structures; fee basis or fees included in steel supplied. Box 3852.

For Sale or Wanted

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

TO BE CLEARED OWING TO REMOVAL TO NEW PREMISES.
500 POLES; 2 CONCRETE MIXERS; 3 LORRIES; 50 TONS WIRE; 300 TONS IRON AND STEEL PLATE, various sizes; 100 TONS SHIPS' PLATE; 3 HUTS; 500 TONS RODS, 3/16 in. to 2 in.; 600 DRAIN PIPES; 50,000 ft. TUBING, various sizes. All lying at our Hayes Depot. For further details apply to NORDA (Gt. Britain), Limited, 162-166, Broadway, Southall, Middlesex. Telephone: Southall 3755 and 3227/8. 'Grams: "Norda," Southall. 3631

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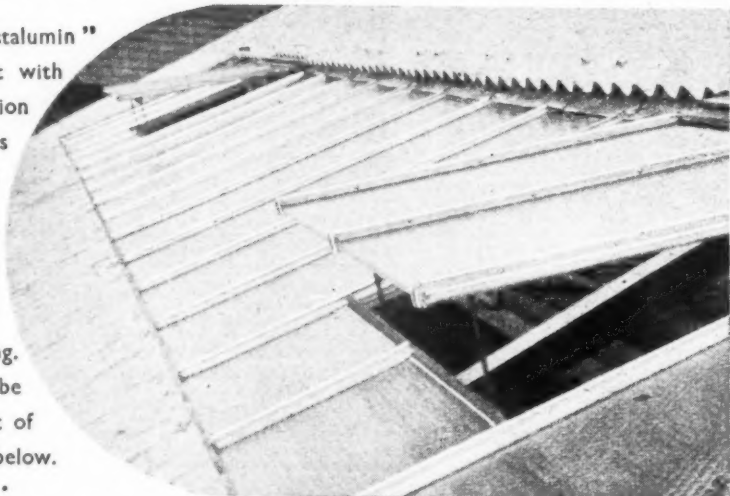
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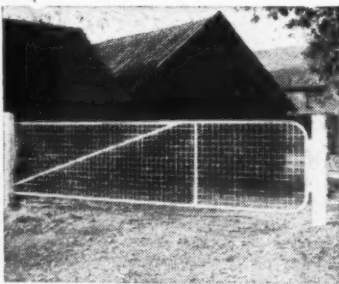
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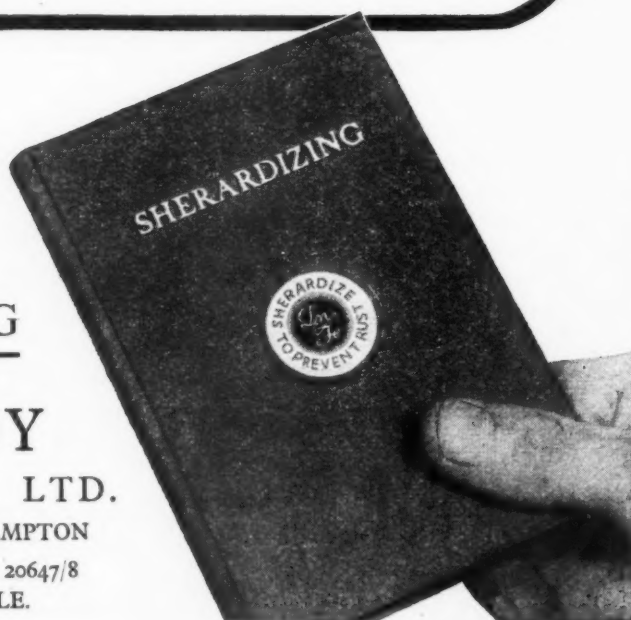
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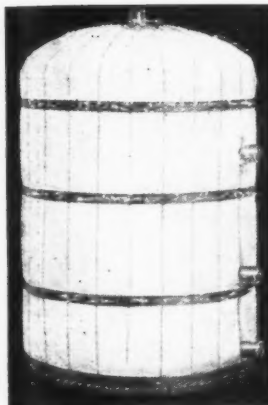
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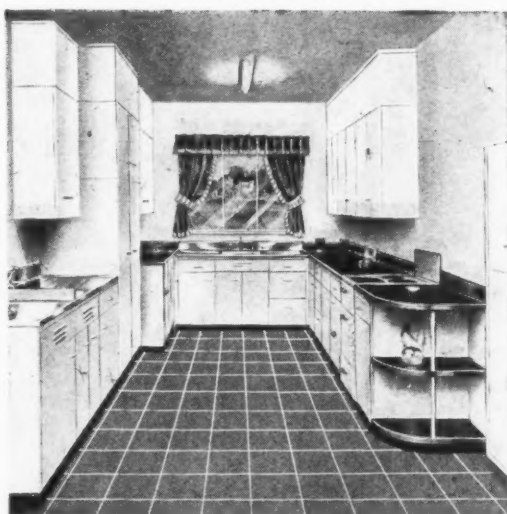
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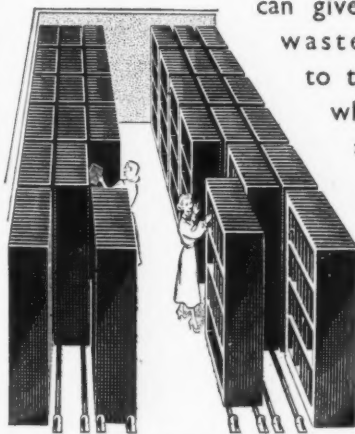
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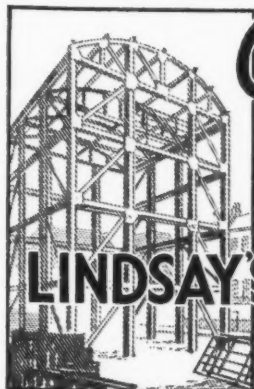
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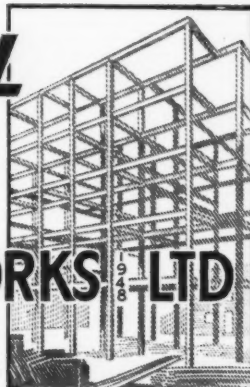


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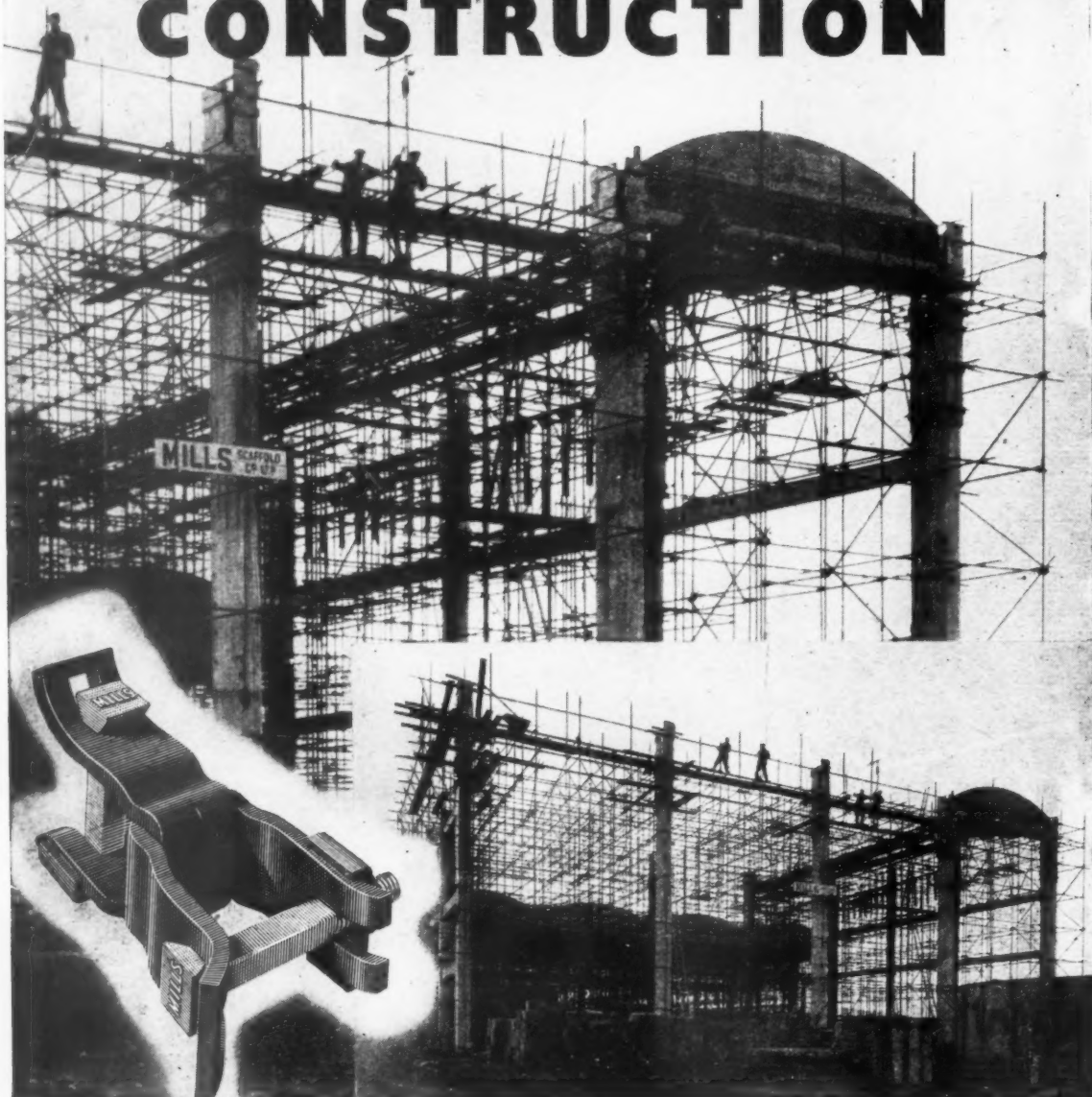
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