

ARTS DEPT
STATION

THE ARCHITECTS' JOURNAL



standard contents

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

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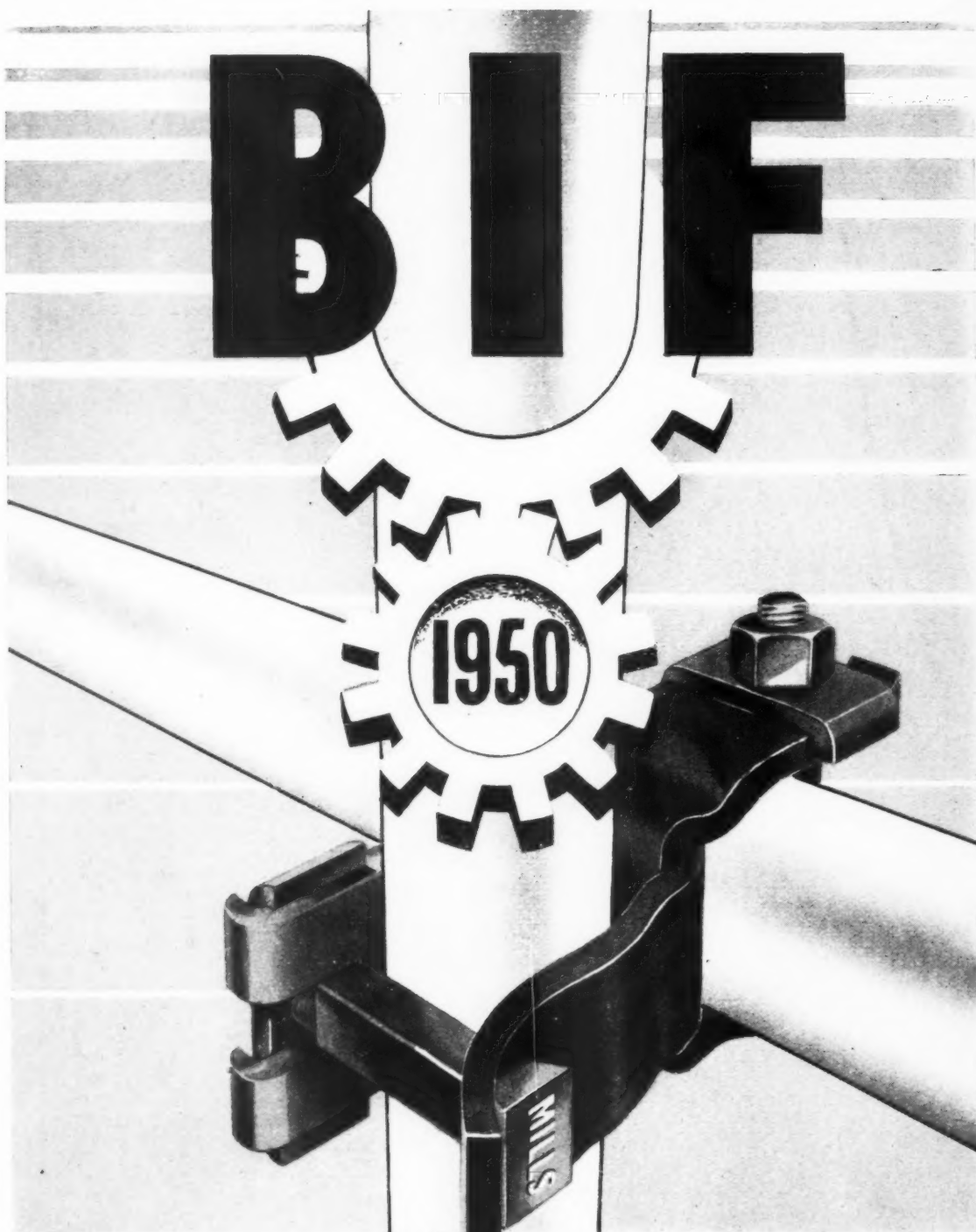
★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to I one week, I to Z the next. In all cases where the town is not mentioned the word LONDON is implicit 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	Museum 7197
IOB	Institute of Builders.	48, Bedford Square, W.C.1.	Monarch 7391
IR	Institute of Refrigeration.	Empire House, St. Martin's-le-Grand, E.C.1.	Abbey 6172
IRA	Institute of Registered Architects.	47, Victoria Street, S.W.1.	Sloane 7128-29
ISE	Institution of Structural Engineers.	11, Upper Belgrave Street, S.W.1.	Museum 9200
IWA	Inland Waterways Association.	11, Gower Street, W.C.1.	Whitehall 7264
LIDC	Lead Industries Development Council.	Eagle House, Jermyn Street, S.W.1.	Museum 3891
LMBA	London Master Builders' Association.	47, Bedford Square, W.C.1.	Eustc 2158-9
MARS	MARS Group (English Branch of CIAM).	34, Gordon Square, W.C.1.	White: 31 3400
MOA	Ministry of Agriculture and Fisheries.	55, Whitehall, S.W.1.	Mayfair 9400
MOE	Ministry of Education.	Curzon Street House, Curzon Street, W.1.	Whitehall 4300
MOH	Ministry of Health.	Whitehall, S.W.1.	Whitehall 6200
MOLNS	Ministry of Labour and National Service.	St. James's Square, S.W.1.	Gerrard 6933
MOS	Ministry of Supply.	Shell Mex House, Victoria Embankment, W.C.	Abbey 7711
MOT	Ministry of Transport.	Berkeley Square House, Berkeley Square, W.1.	Whitehall 8411
MOTCP	Ministry of Town and Country Planning.	32-33, St. James's Square, S.W.1.	Reliance 7611
MOW	Ministry of Works.	Lambeth Bridge House, S.E.1.	Abbey 1010
NAMMC	Natural Asphalte Mine-Owners and Manufacturers Council.	94, Petty France, S.W.1.	Abbey 5277/8
NAS	National Association of Shopfitters.	9, Victoria Street, S.W.1.	Kensington 8161
NBR	National Buildings Record.	37, Onslow Gardens, S.W.7.	Abbey 5111
NCBMP	National Council of Building Material Producers.	2, Caxton Street, S.W.1.	W.1. Langham 4041
NFBTE	National Federation of Building Trades Employers.	82, New Cavendish Street, W.1.	Macaulay 4451
NFBTO	National Federation of Building Trades Operatives, Federal House, Cedars Road, Clapham, S.W.4.	13, Suffolk St., S.W.1.	Whitehall 2881/2/3
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.	Grosvenor Gardens House, Grosvenor Gardens, S.W.1.	Victoria 2186-8
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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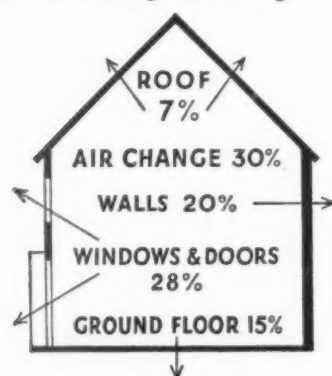
FACTS

about Thermal Insulation of Houses

Thermal insulation of houses, of course, is no new development. The results of Government research have been widely publicised, and many houses now being built are insulated in accordance with official recommendations, which are unbiased, and make due allowance for the fact that :

- A house is not a hermetically sealed chamber, but something to be lived in.
- As long as houses have doors, windows and means of ventilation, they will always be subject to heat losses, however the inner surfaces are treated.
- Thermal insulation must be both practical and economical.

The following diagram shows the heat losses likely to occur from a small terrace house of good modern construction, with insulation up to recommended standards and a reasonable degree of heating.



It will be seen that five factors must be taken into account when computing heat losses, that certain losses must be tolerated in all practical and economic house building, and that the loss through walls when insulated to recommended standards is only about one-fifth of the total.

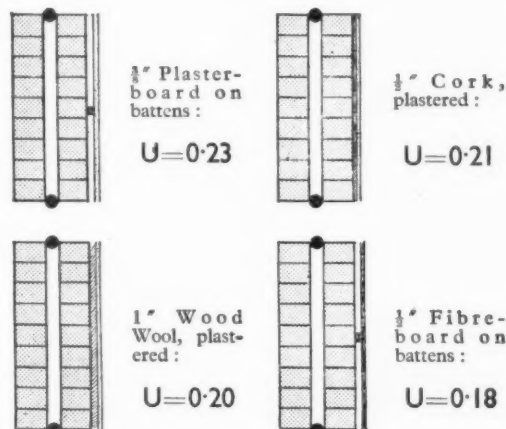
Those fortunate enough to live in brick houses know that good brick construction ensures warmth and comfort. When additional thermal insulation is desired, it may be applied as easily and economically to brick walls as to any other form of construction. But the BRICK house alone possesses all the following important characteristics :
AMPLE STRENGTH AND DURABILITY; RESISTANCE TO RAIN PENETRATION, FIRE, FROST DAMAGE and EXPOSURE; PERMANENCE OF EXTERIOR FINISH; FREEDOM FROM MAINTENANCE.

RECOMMENDED STANDARDS FOR WALLS

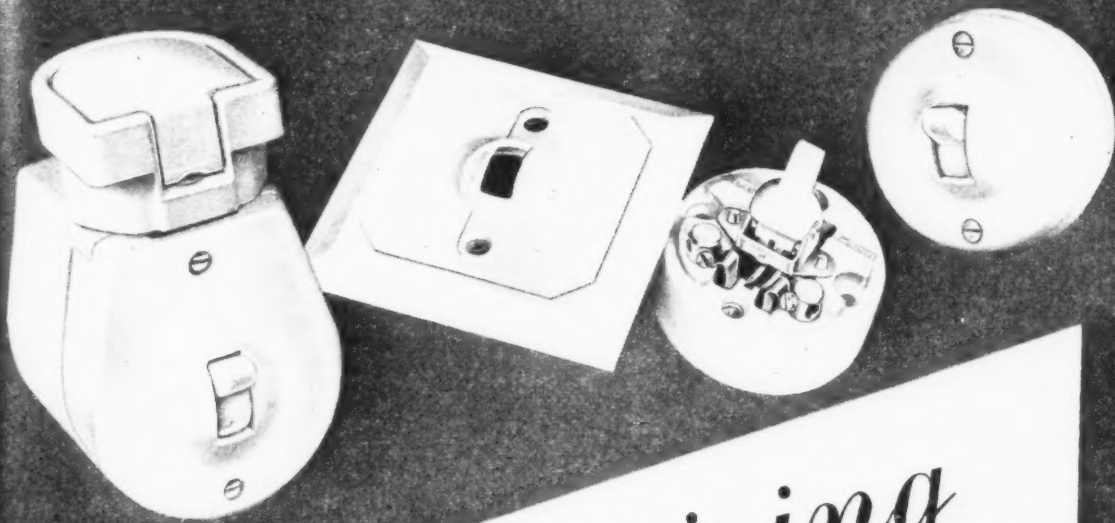
In the Official Housing Manual, the recommended U-value for walls under normal conditions of exposure is 0.3, with a suggestion that, where the type of construction permits, this figure should be improved to 0.15. In the Post-war Study Committee Report No. 19, it is suggested that external walls should, if possible, have a U-value of not more than 0.2, and that round the living room, where the greatest heat loss occurs, the value should be not more than 0.15, if the mode of heating is capable of close control. Where careful regulation of the heating is not possible, however, e.g. with an open fire, the recommended value for all walls is 0.2.

EFFICIENCY OF BRICK WALLS

Brickwork normally provides reasonably good insulation, and the thicker the wall the lower its thermal conductivity. Cavity construction, particularly when the cavity is unventilated, is more efficient than a solid wall. 9" solid brickwork, plastered on the inner face, has a U-value of 0.43. An 11" unventilated cavity wall, plastered on the inner face, has a U-value of 0.30. When it is desired, in the interests of fuel economy, to reduce heat losses still further, a lining or decorative panelling may be applied to the inner face. The following diagrams show a few of many alternative treatments, and the results thereby achieved :



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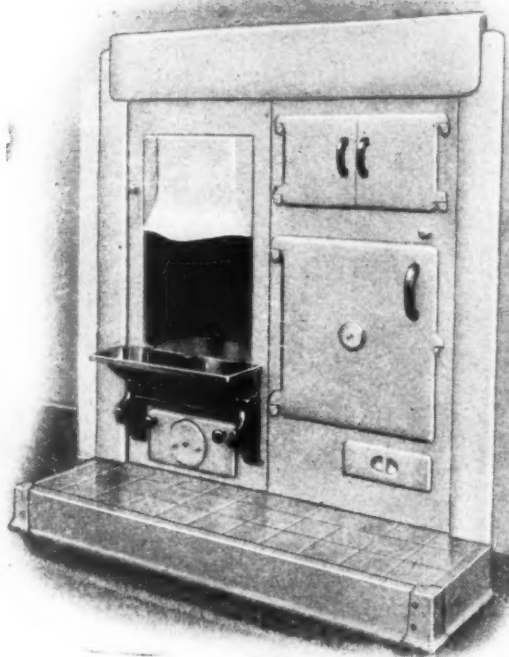
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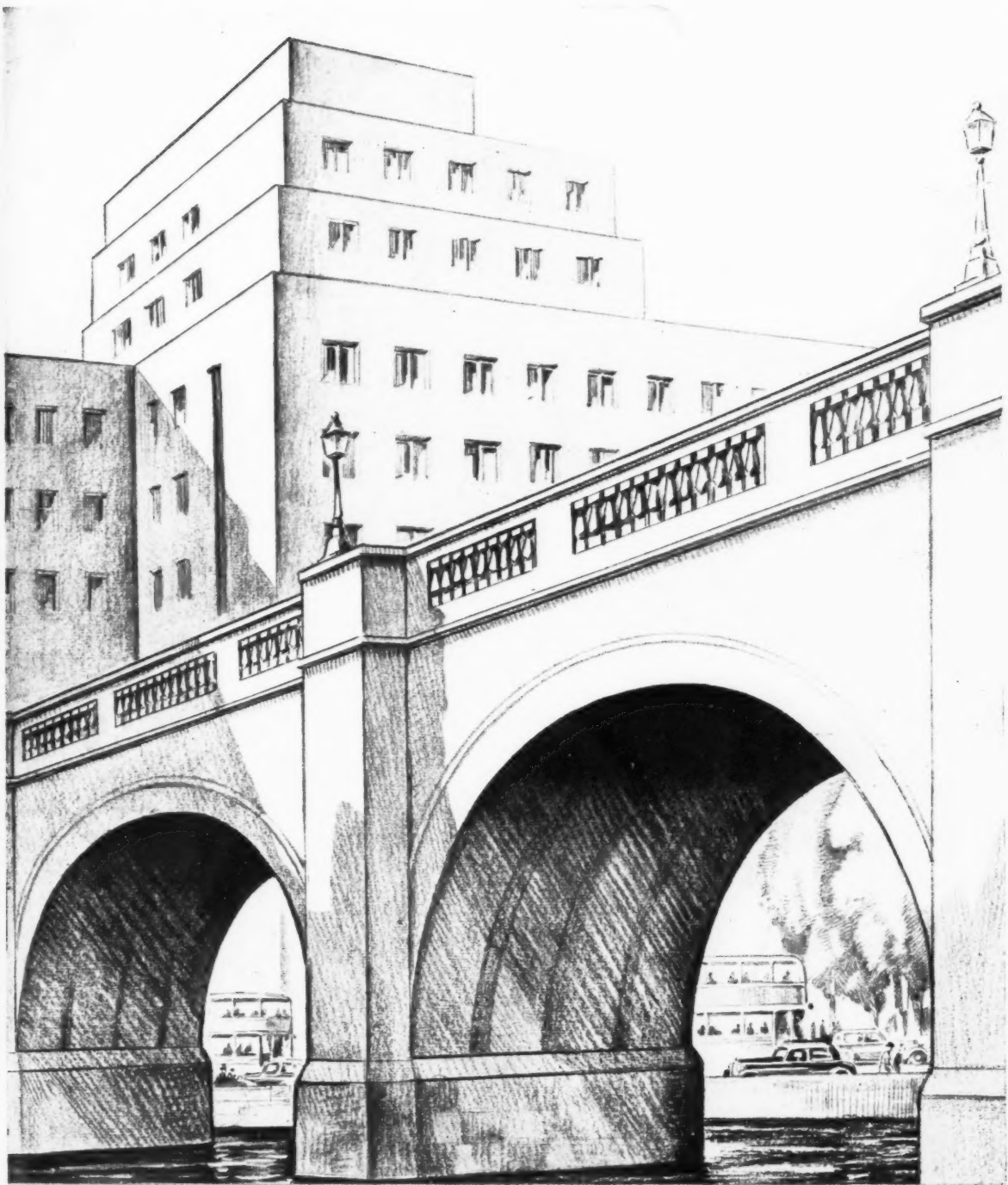
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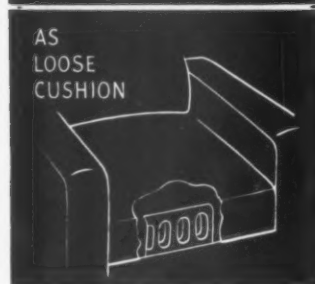
No. 3. LOUNGE CHAIRS

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Dunlopillo fitted over springs (as fig. 1) builds luxurious comfort into a lounge chair of substantial appearance. On seat and back, the cushioning is fitted over hessian-covered spring casing, while a two-inch layer of Dunlopillo cushions the arm rests. An alternative method, used by some manufacturers, is to omit the springs from the seat (fig. 2) and use deep Dunlopillo cushion fitted on a flexible base.

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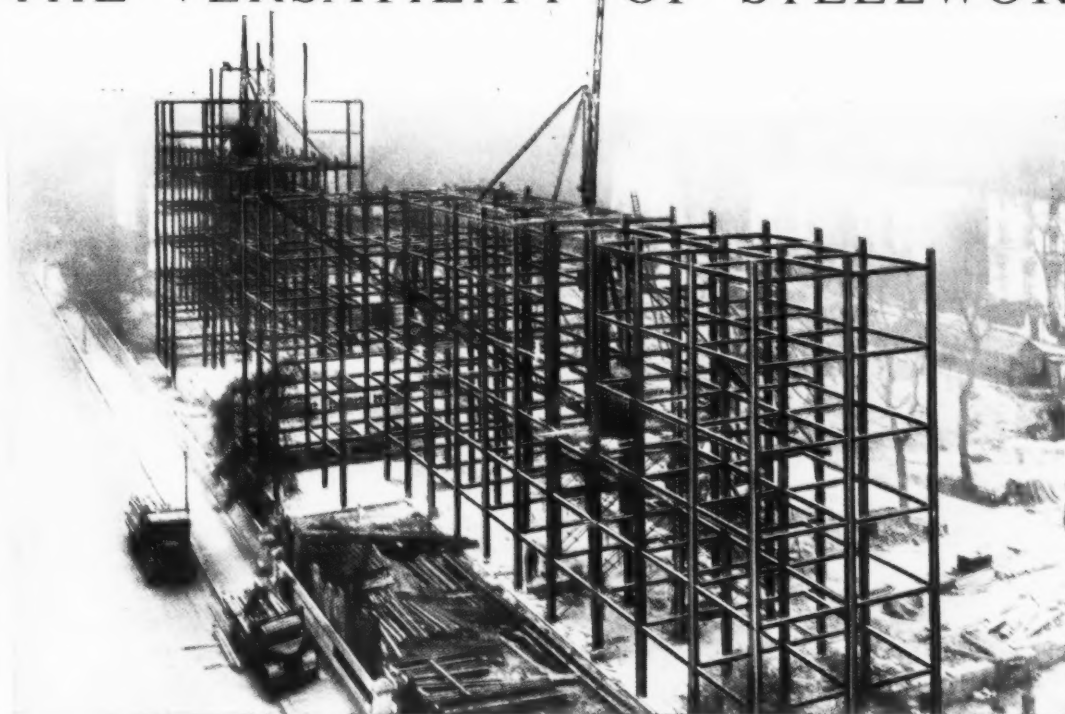
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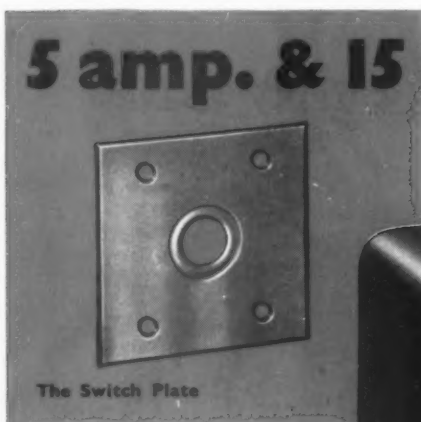
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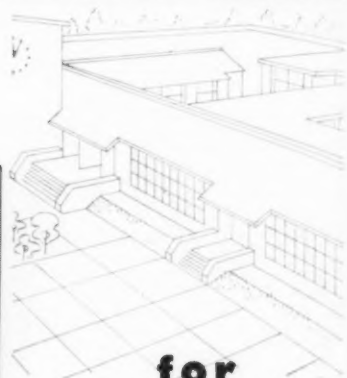
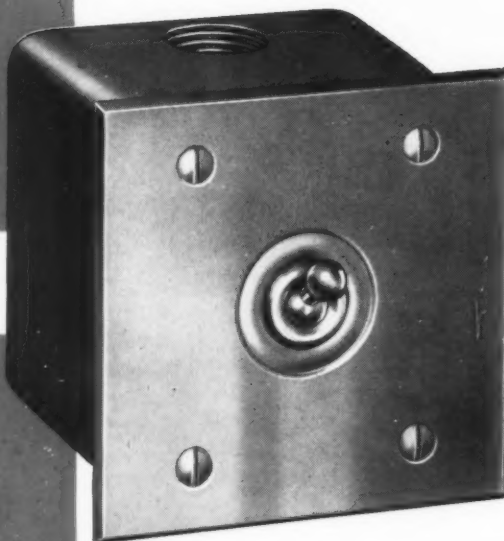
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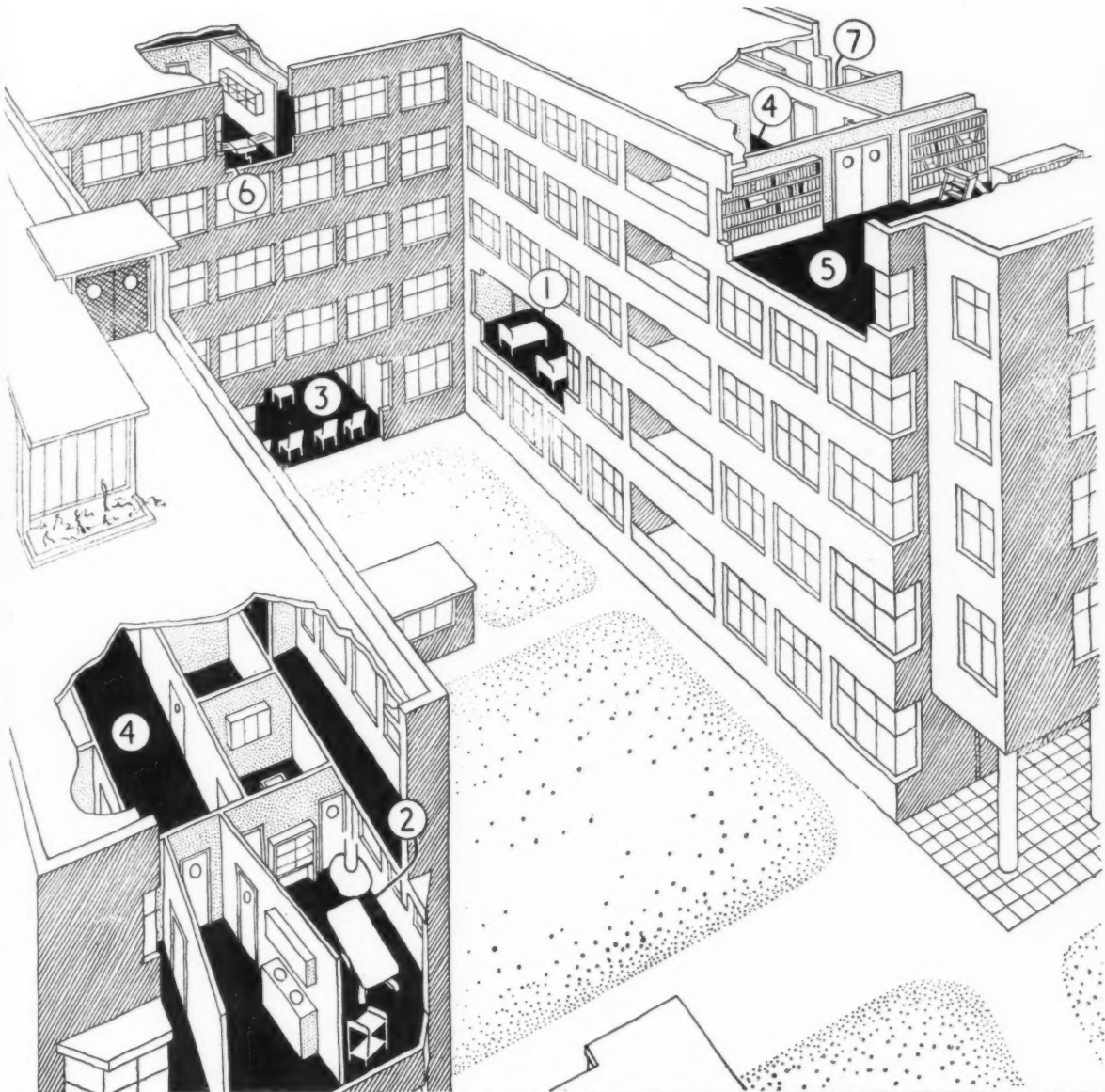
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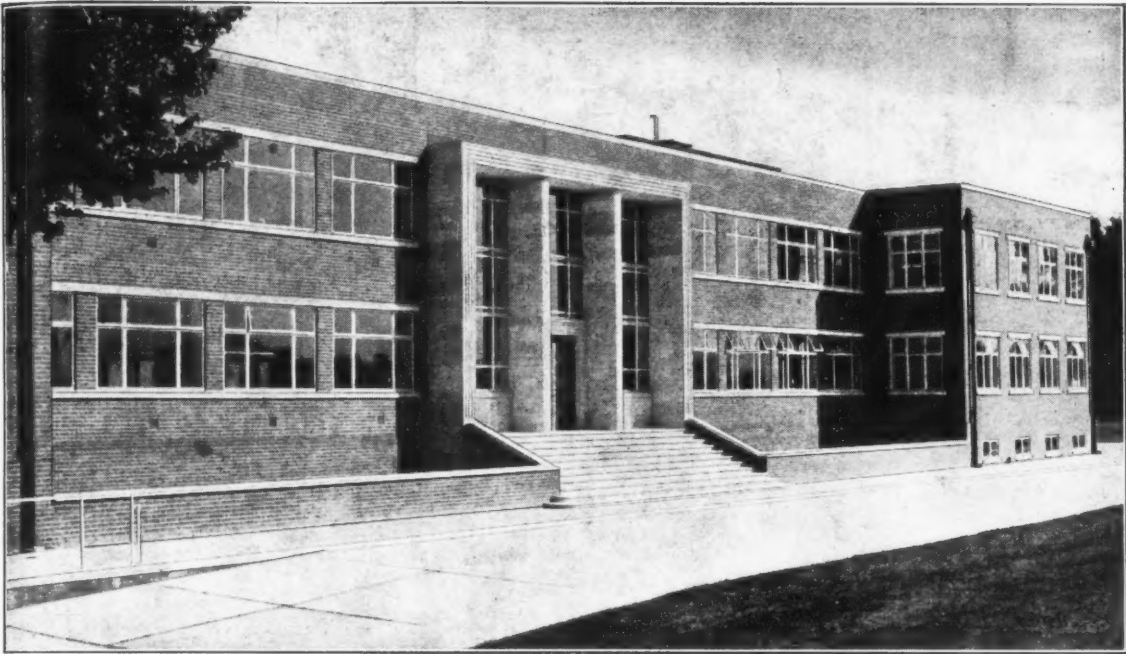
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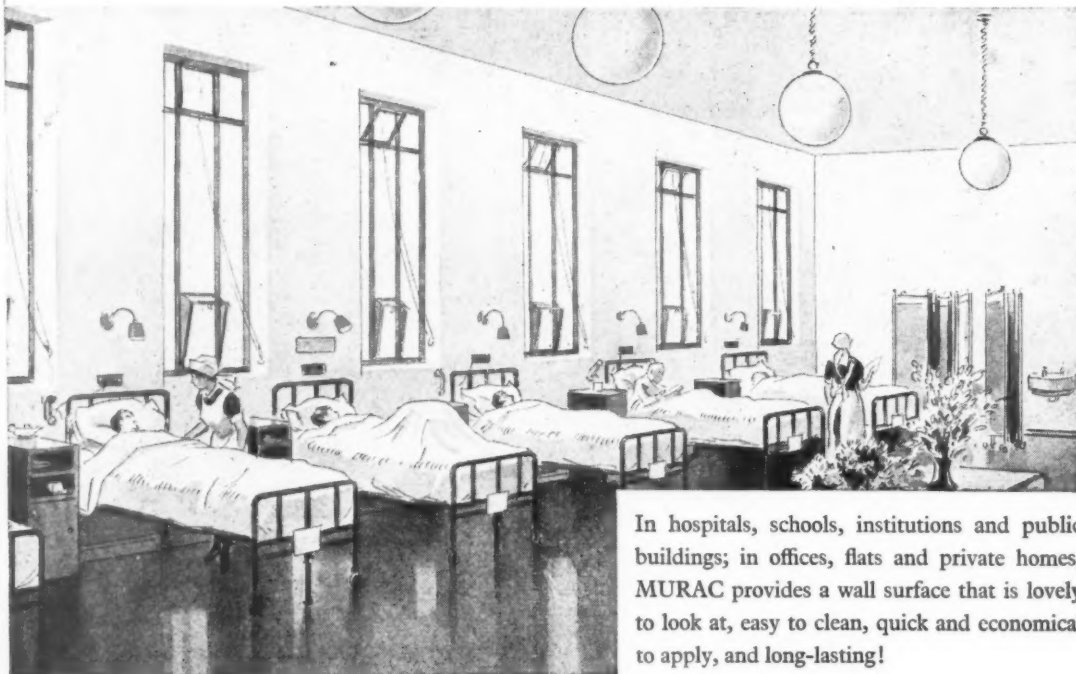
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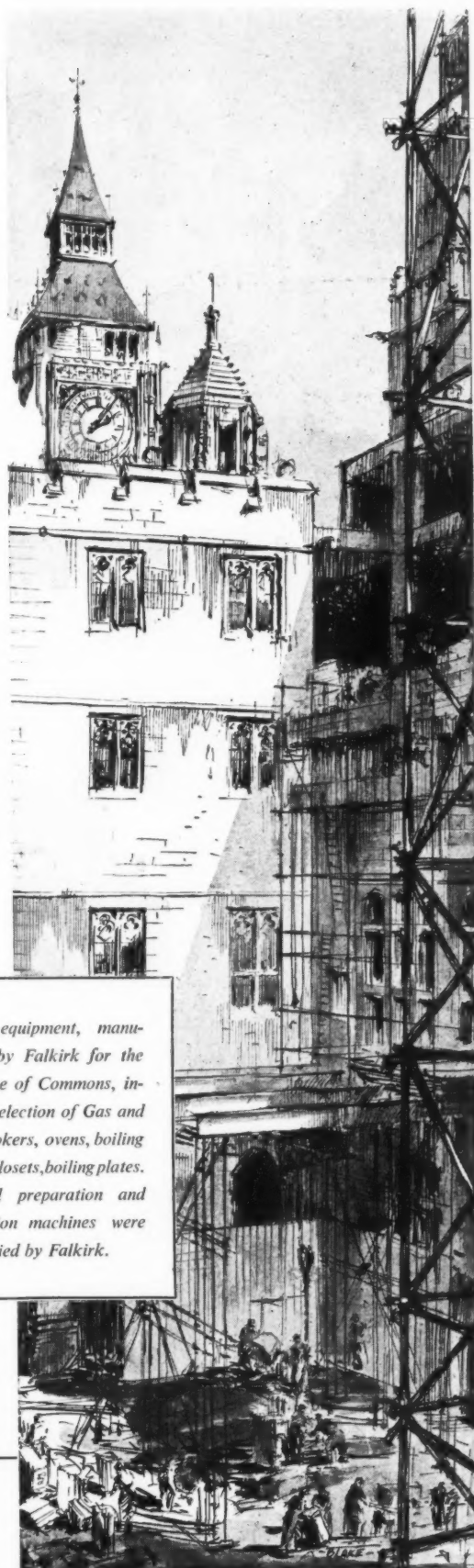
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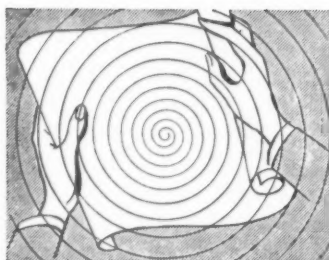
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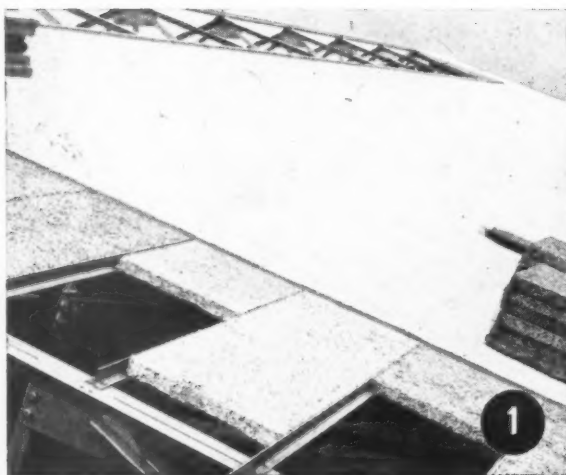
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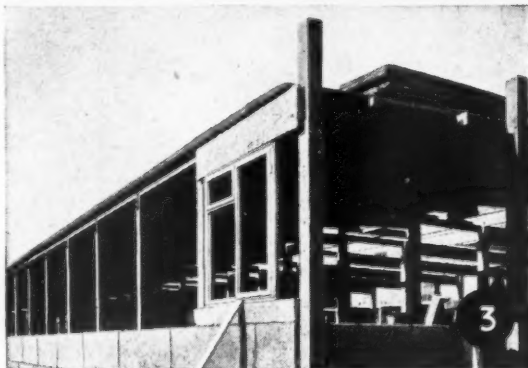
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THE TOP PHOTOGRAPH shows "GYPKLITH" used on a factory roof, supported between purlins of inverted "T" section. The top surface of the "GYPKLITH" is screeded with "GYPROC" Metropolitan Stucco ready for finishing with bituminous roofing.

THE SECOND PHOTOGRAPH shows another method of factory roof construction in which 3 inch "GYPKLITH" is laid transversely across and clipped to the purlins, and then finished in similar way. The thermal transmittance "U" value of these roof constructions, using 3 inch thick "GYPKLITH", is 0.15.

THE THIRD PHOTOGRAPH shows an exterior view of a building where "GYPKLITH" is used for the roof, partitions and external walls. For the walls, it is bolted to the outside of the reinforced concrete column framework, plastered internally with PARISTONE Gypsum plaster and rendered externally with water repellent cement. For the roof, it is nailed over timber purlins and finished with a $\frac{1}{4}$ inch cement screed and



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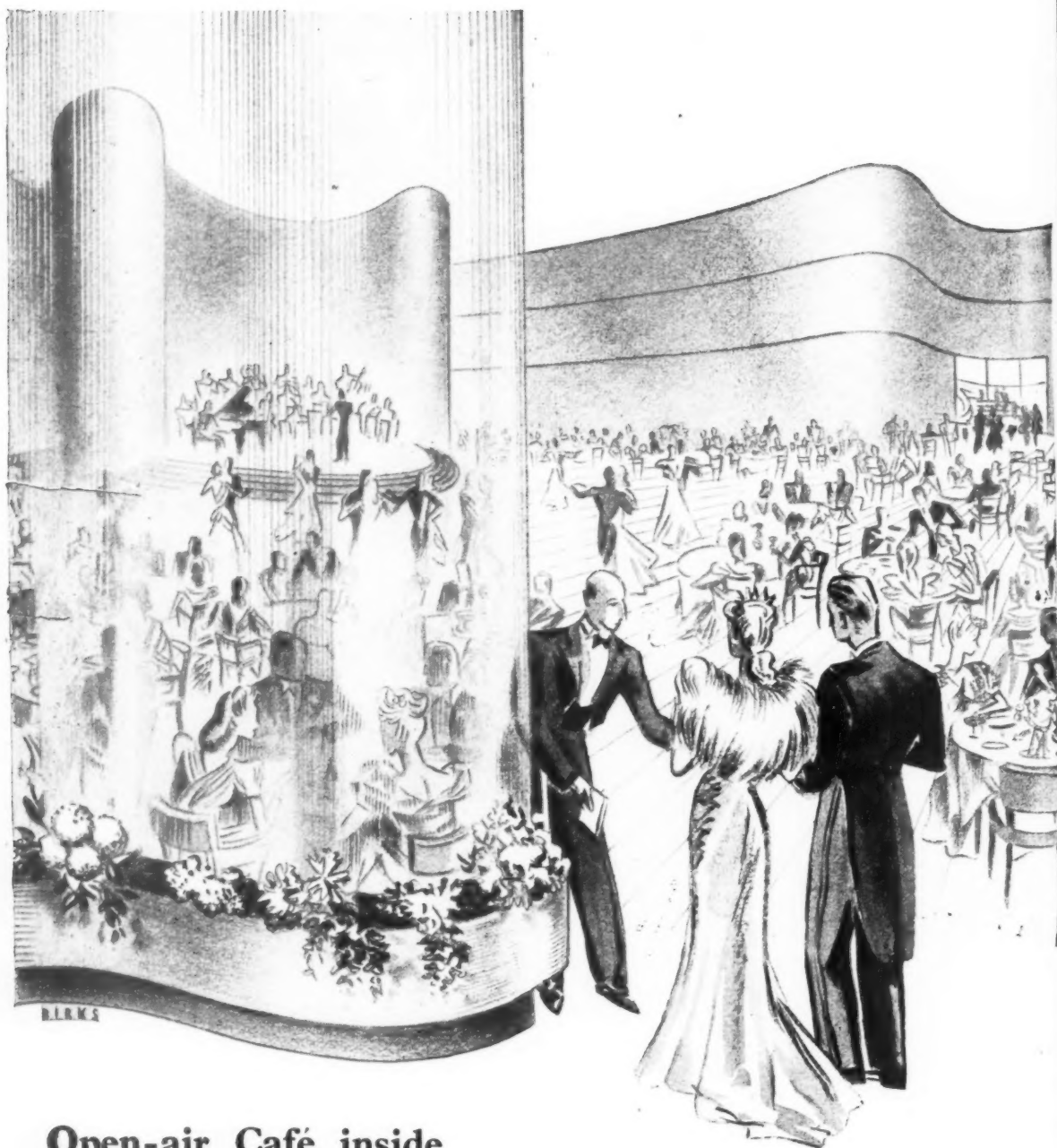
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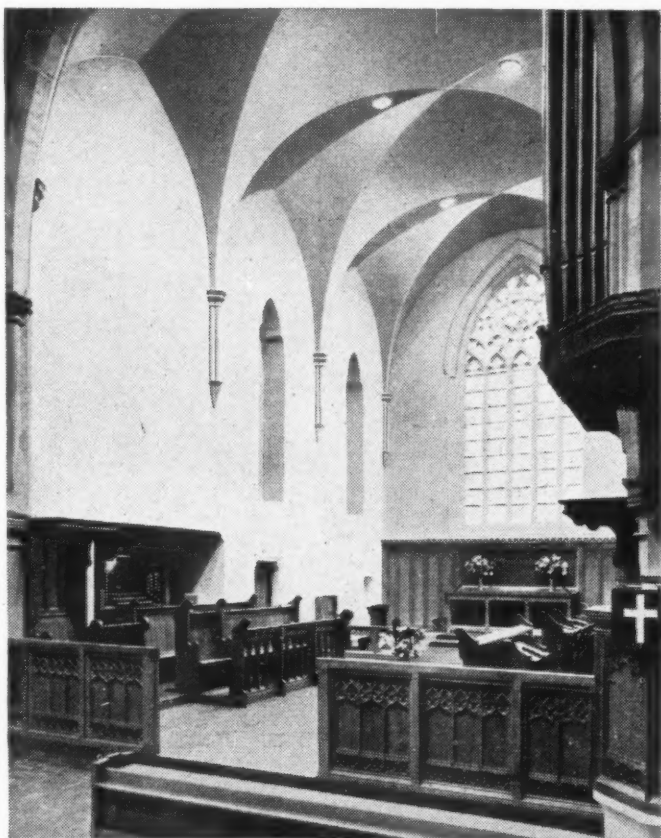
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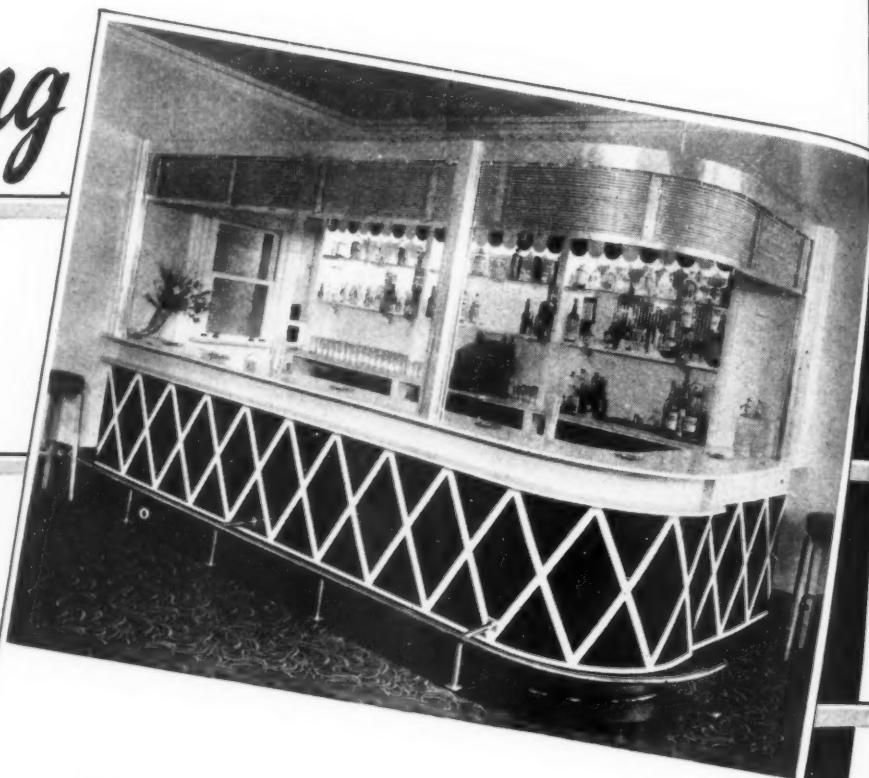
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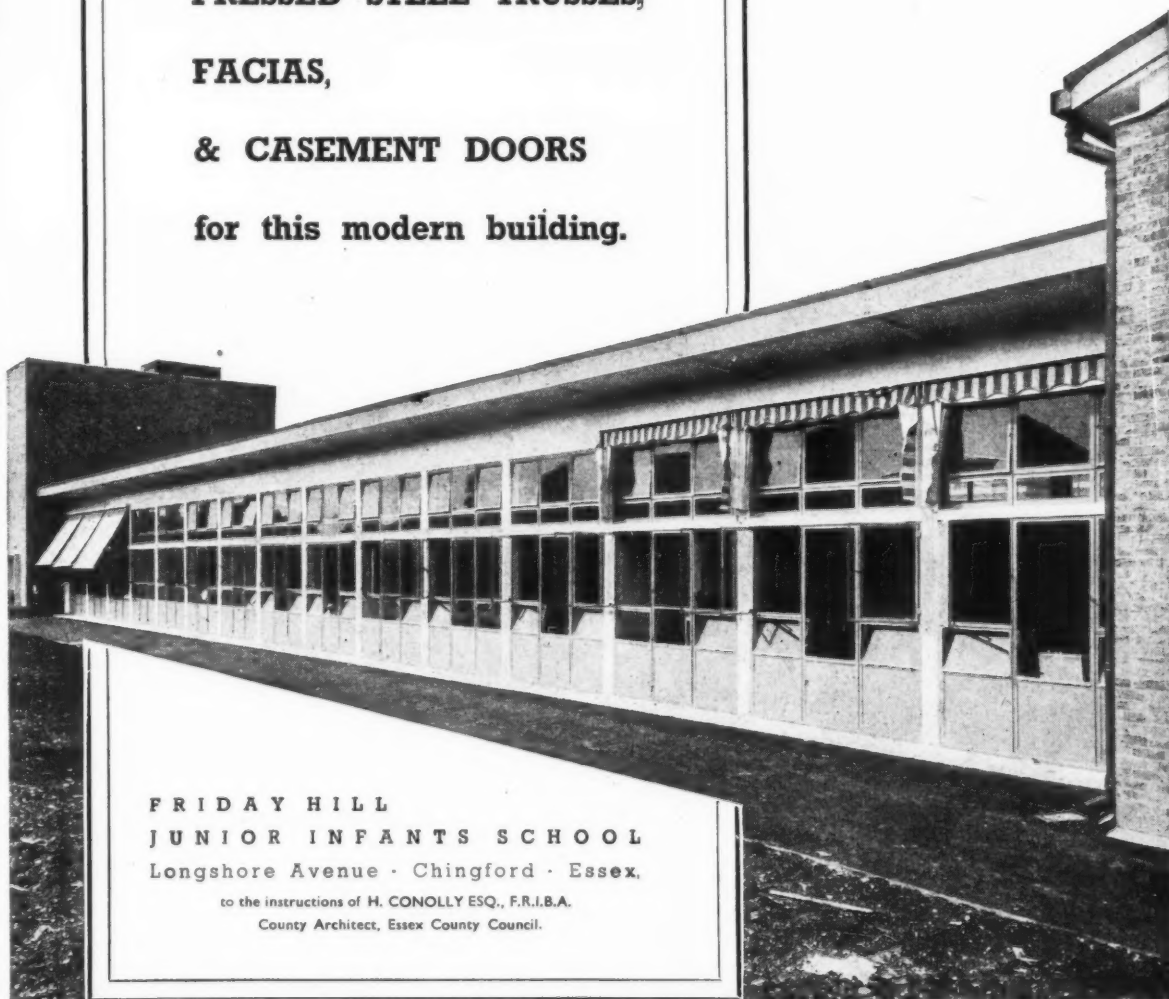
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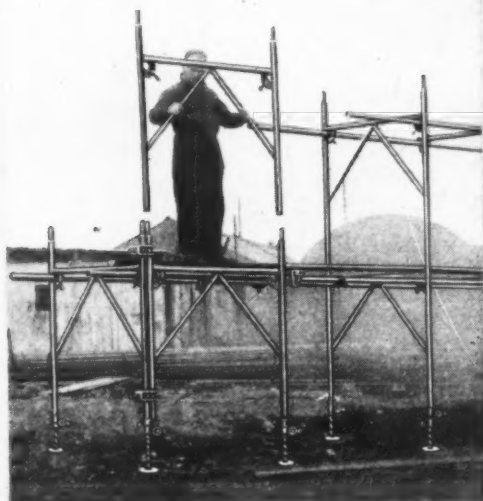
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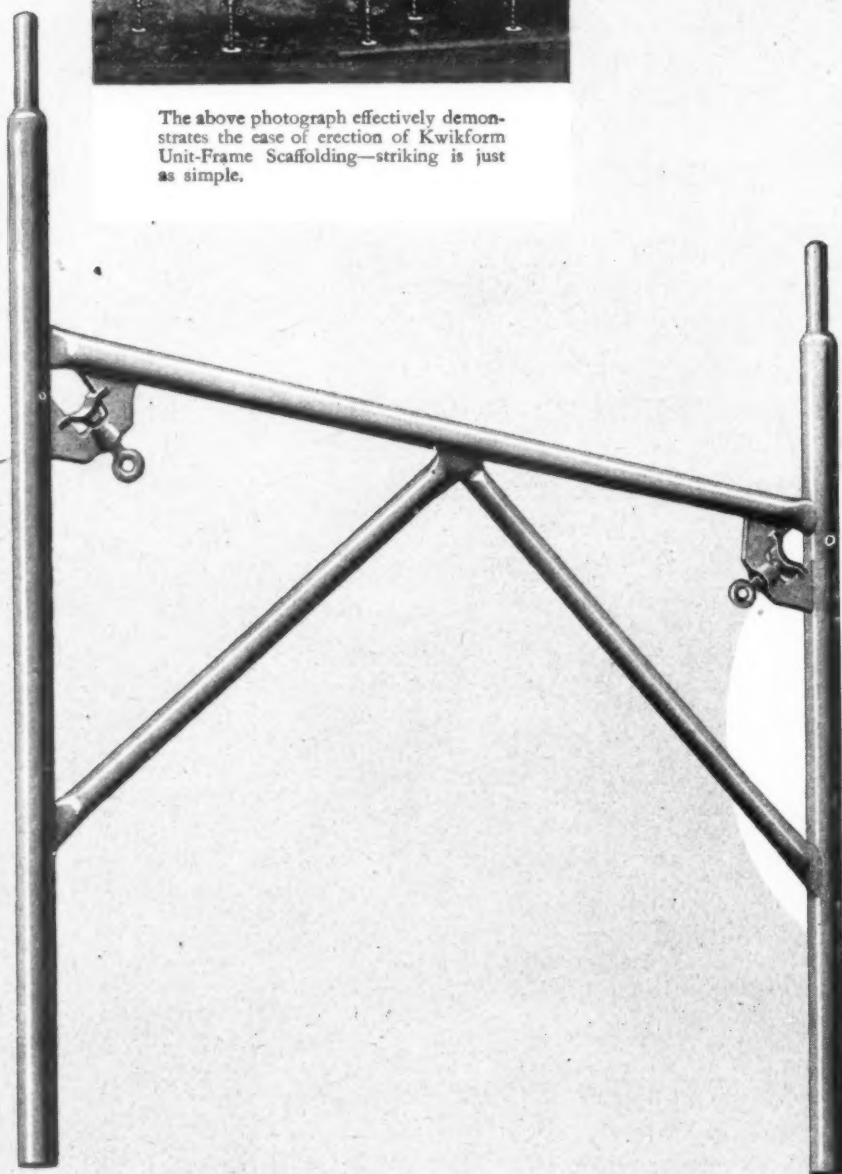


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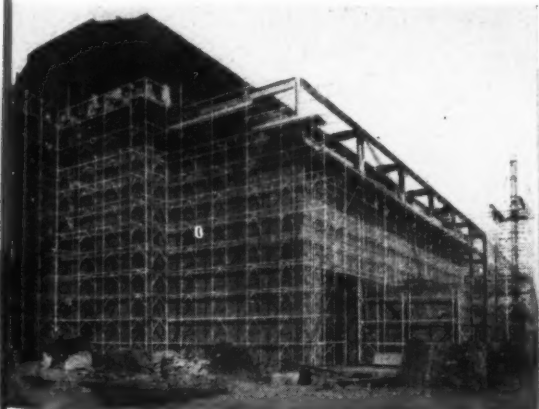


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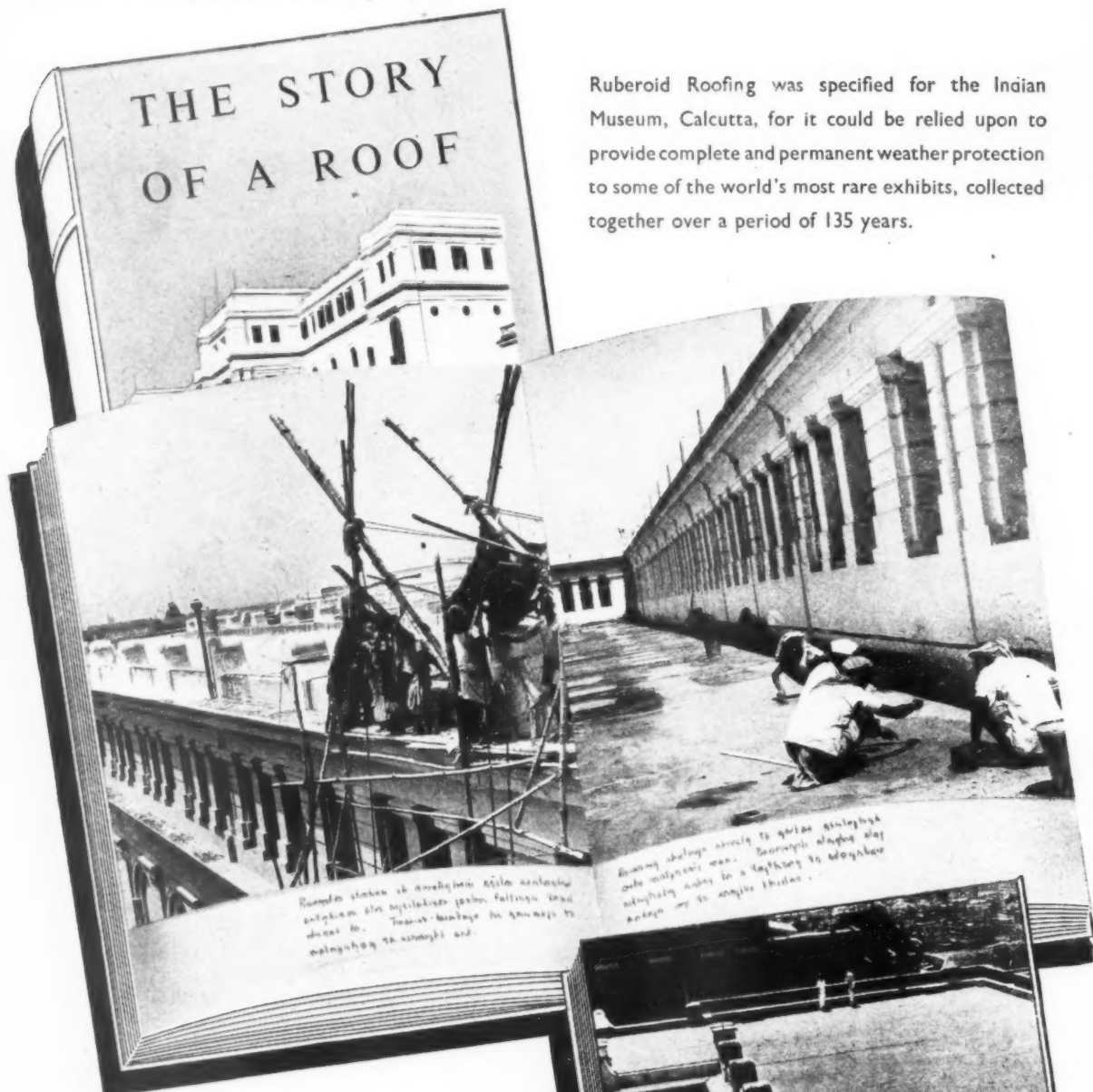
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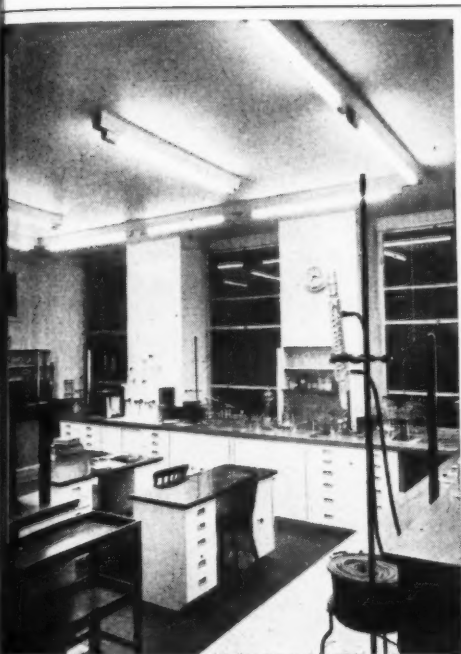
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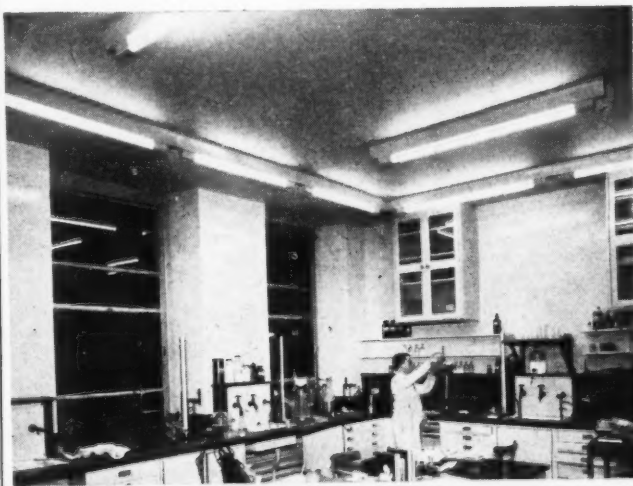
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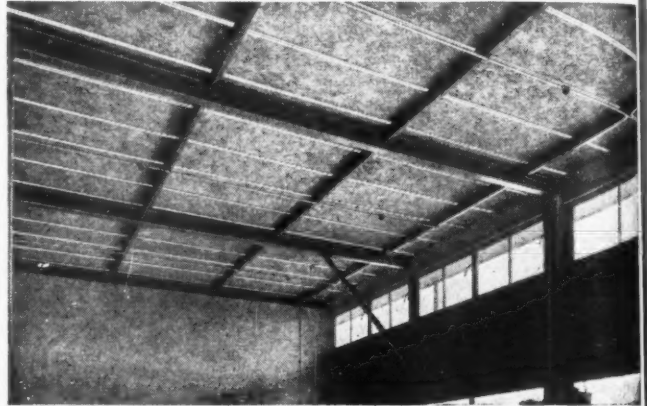
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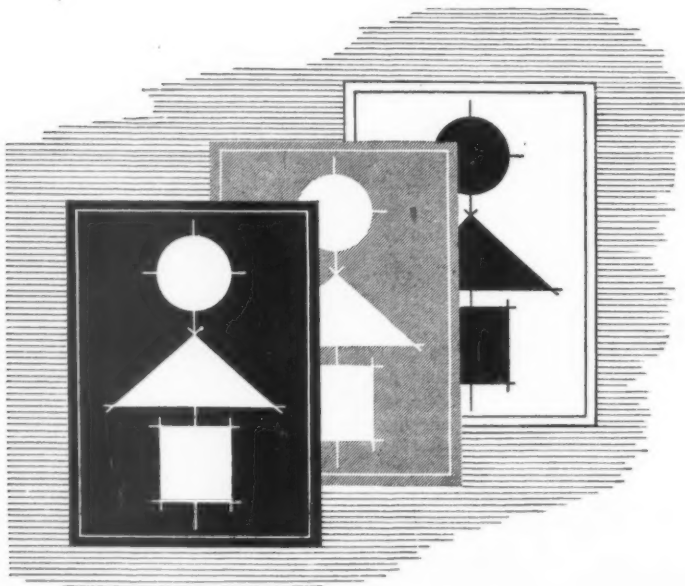


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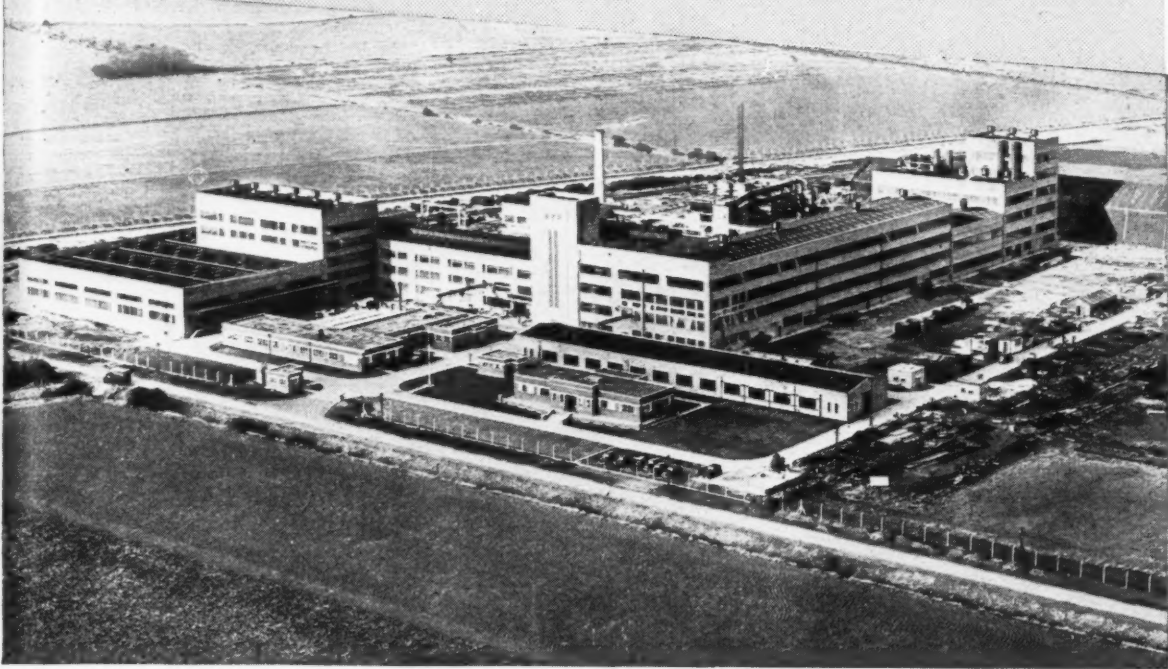


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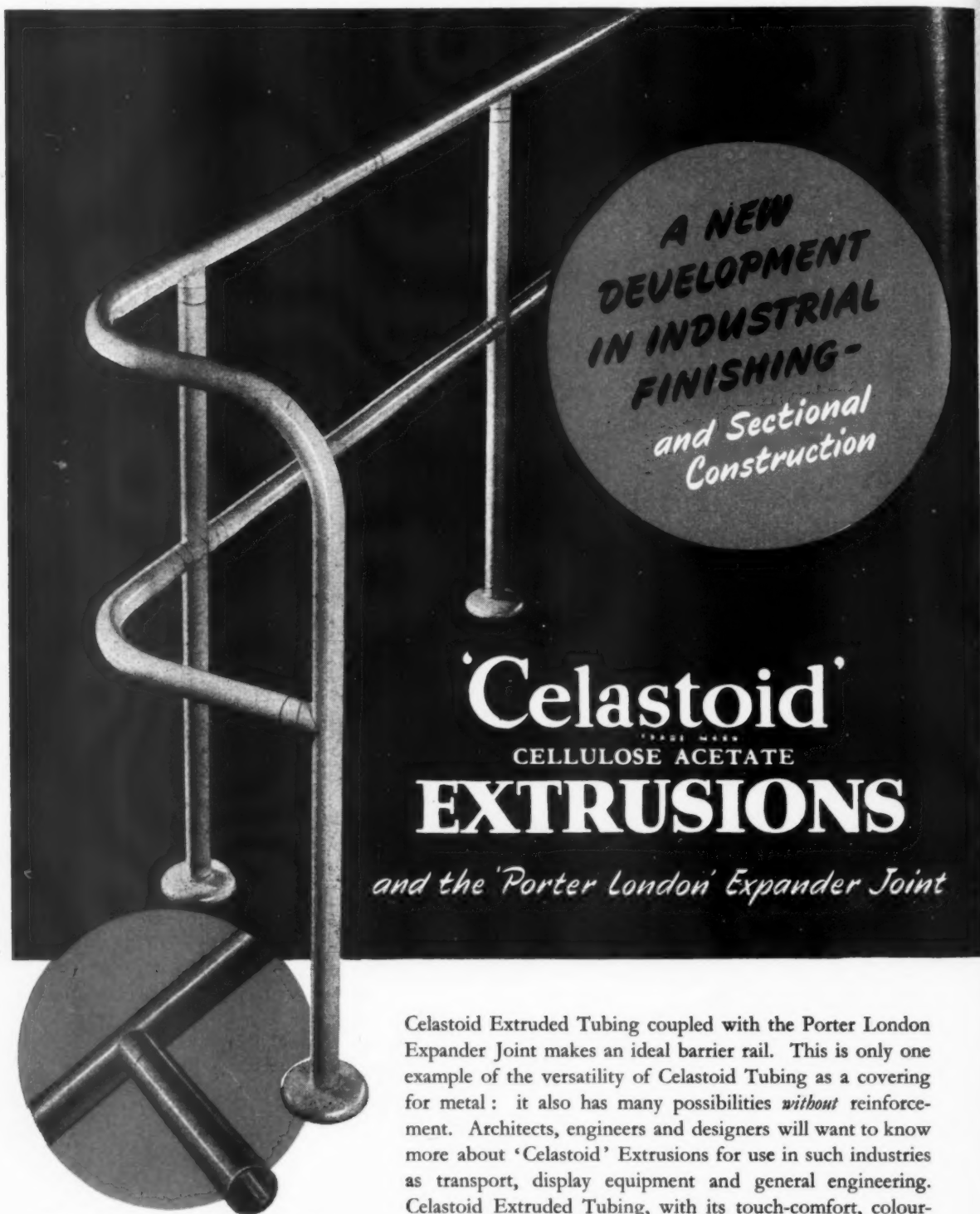
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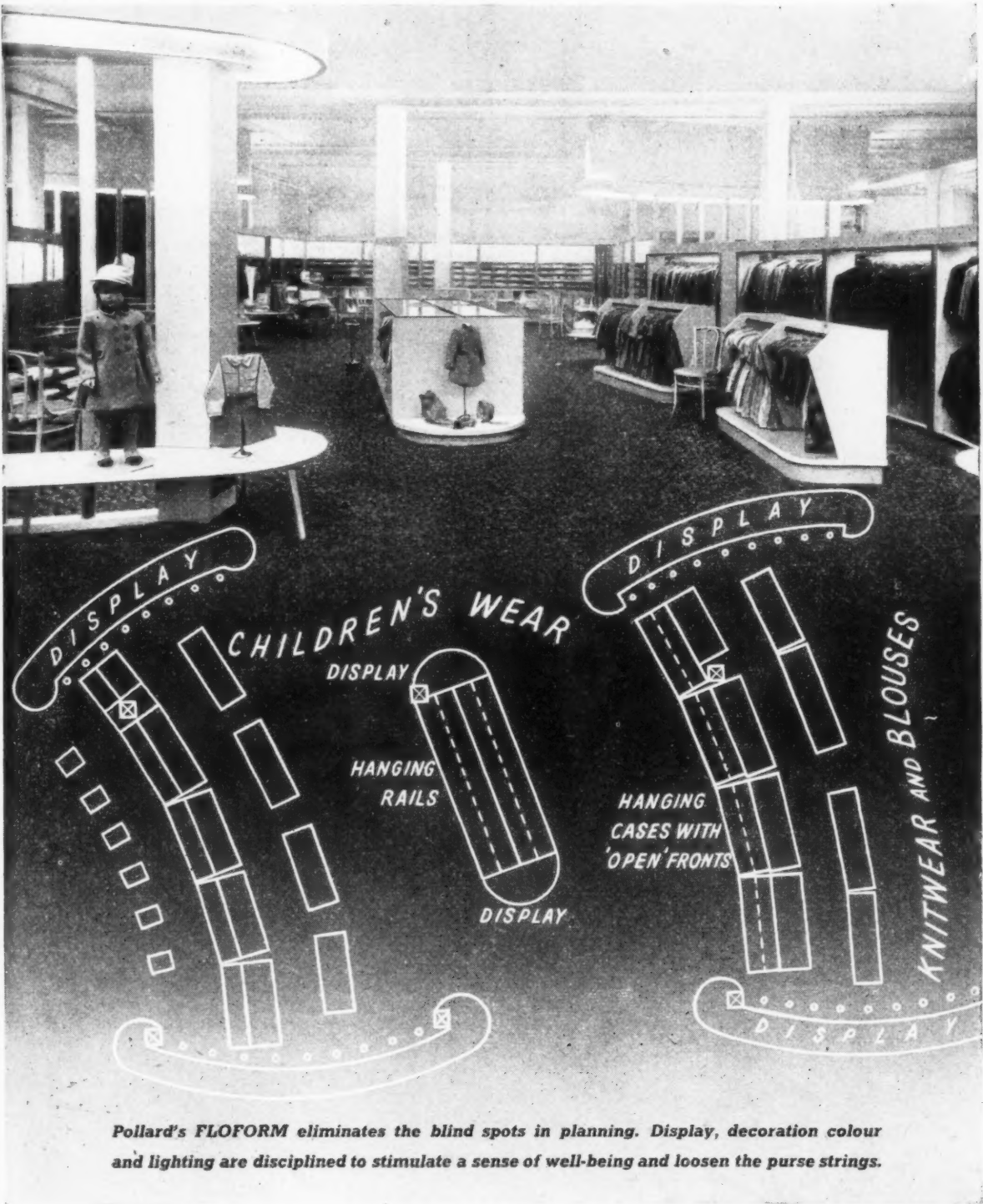


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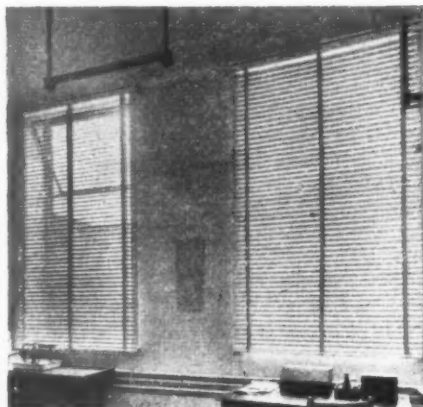
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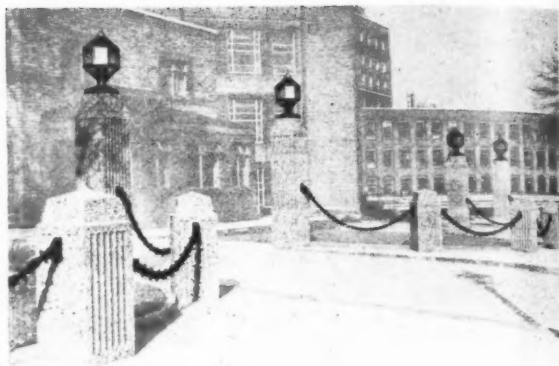
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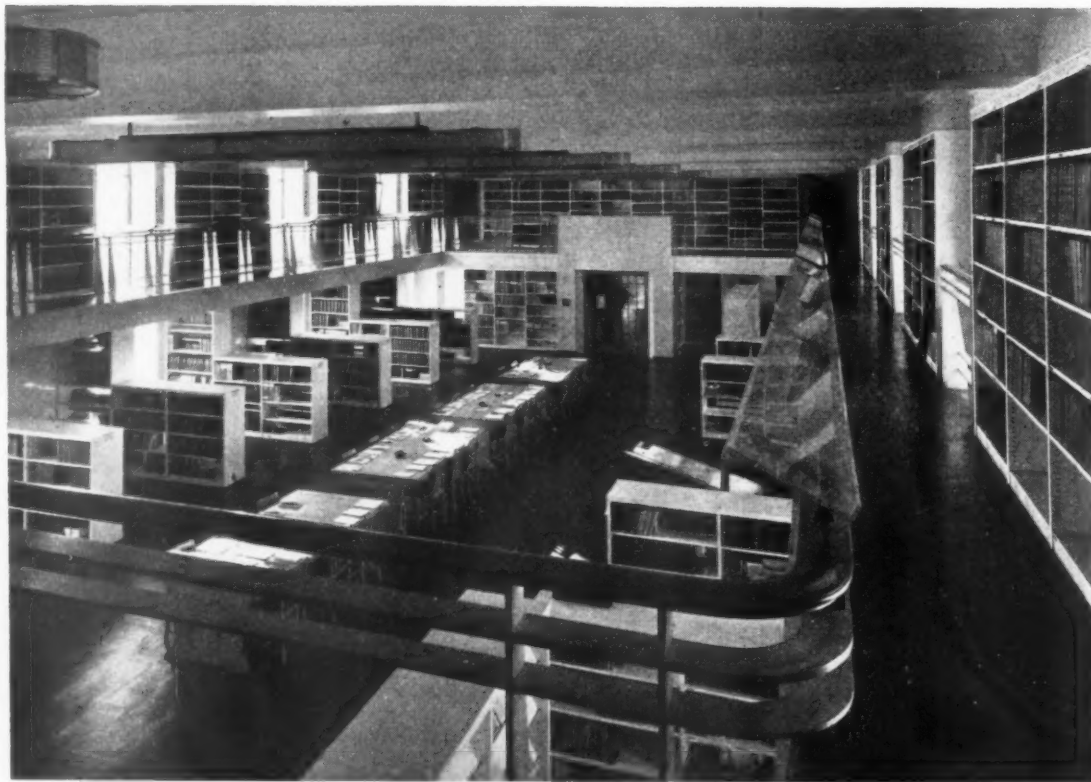
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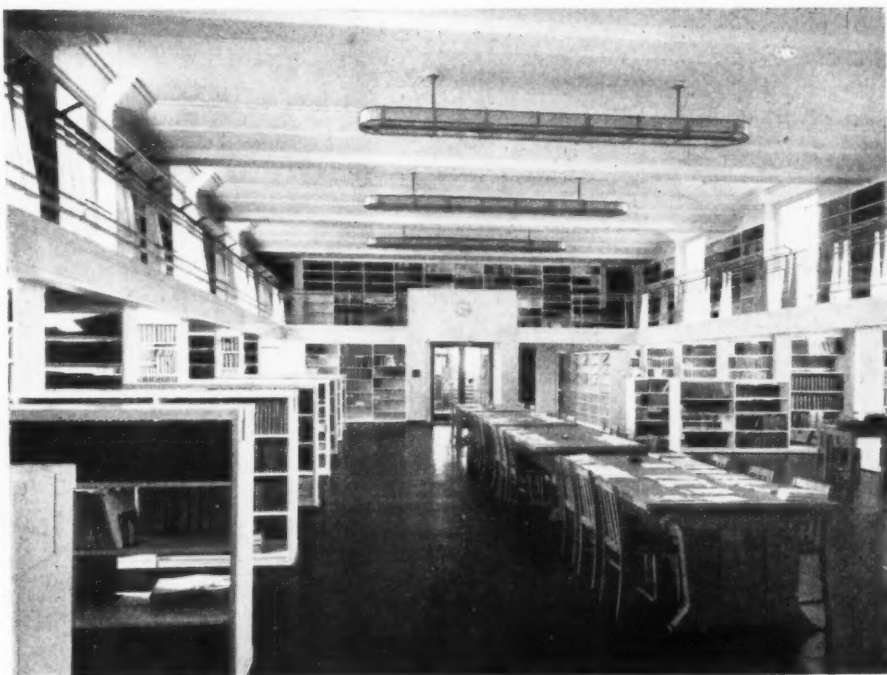
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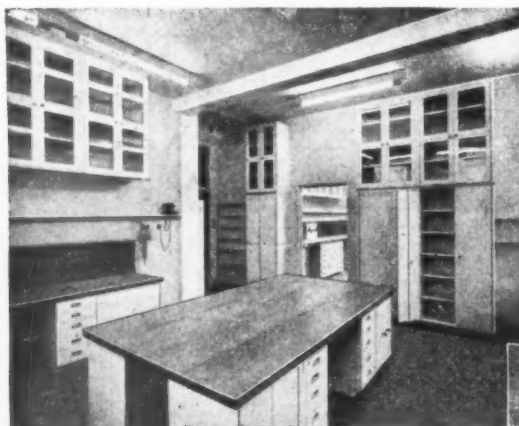
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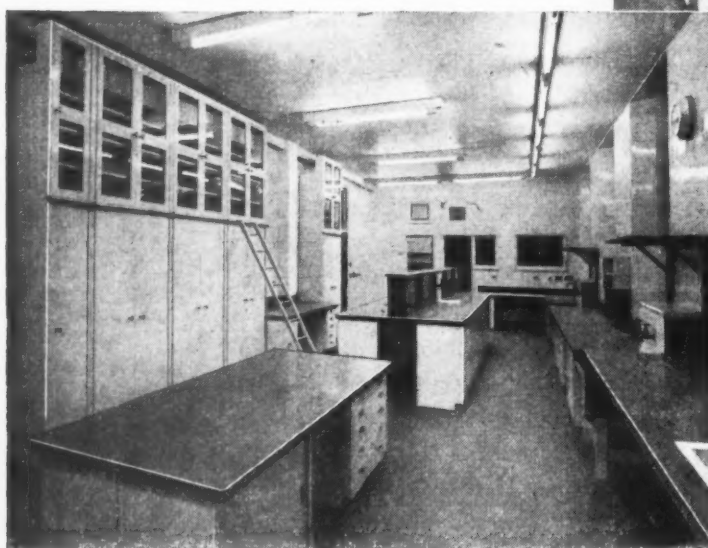


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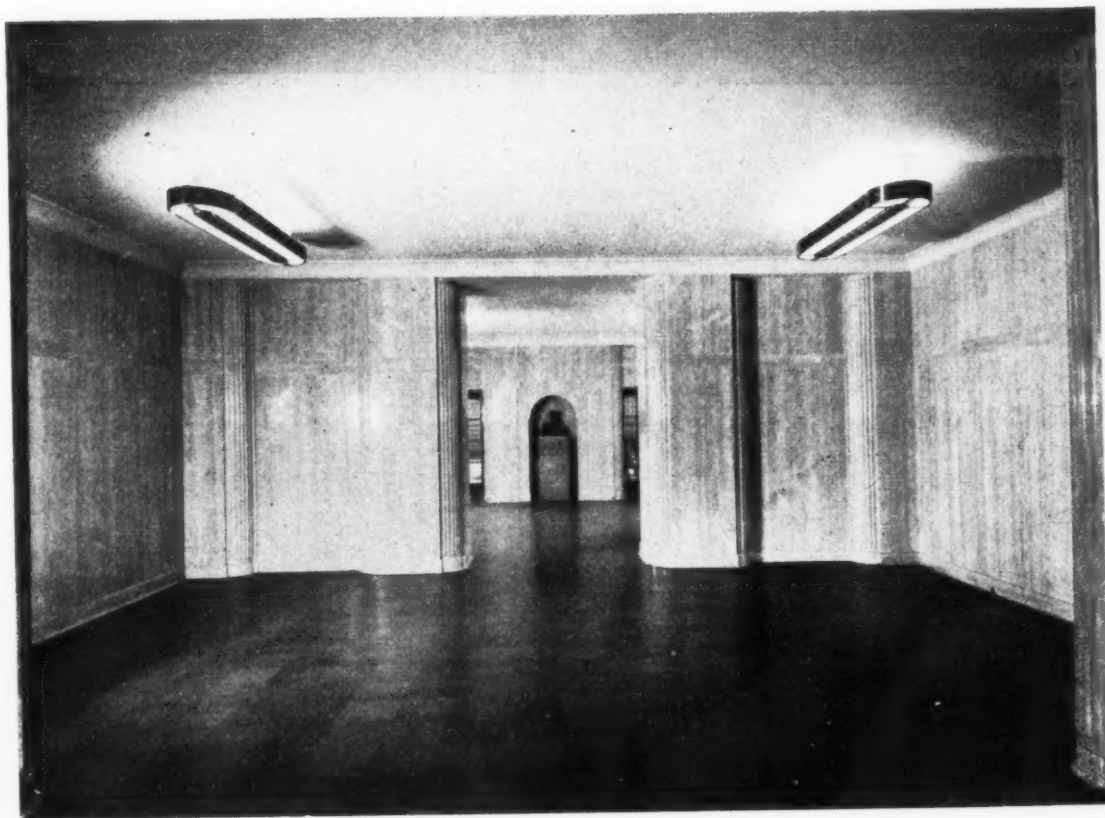
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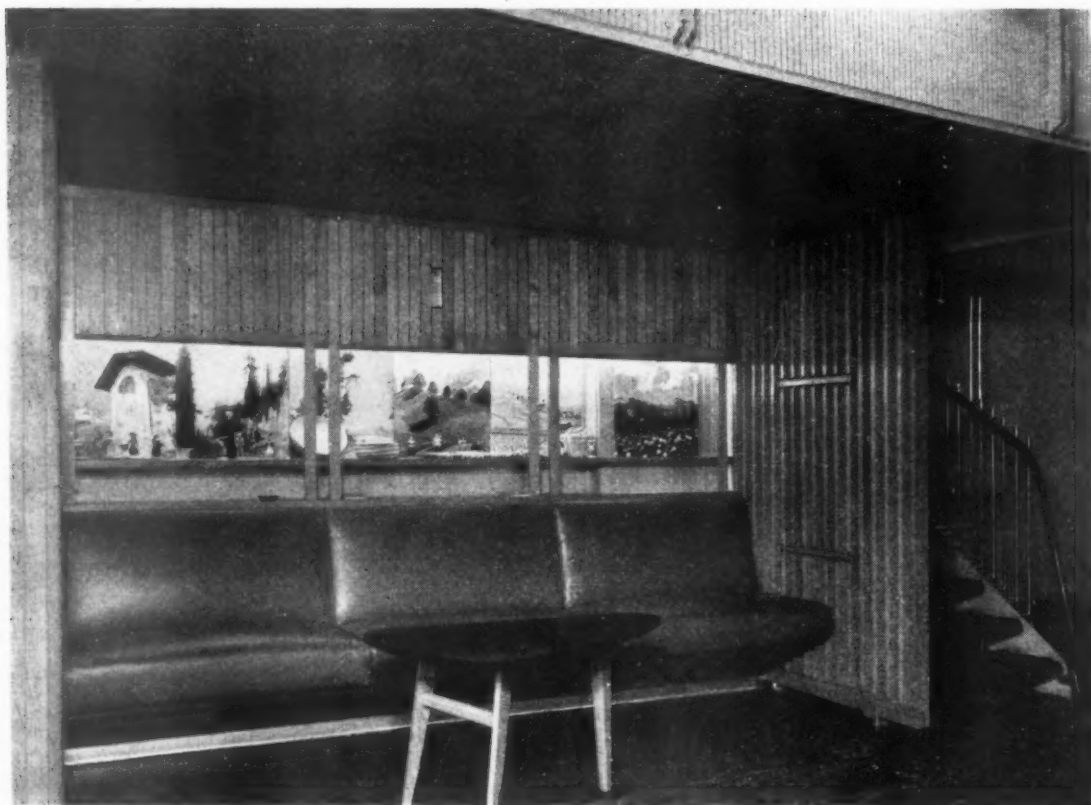
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Architectural Review Photograph

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THE ARCHITECTS' JOURNAL

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BOUQUET FOR THE LCC

I have some very good news for private architects doing housing work for the LCC. Hitherto, when their designs have come before LCC Committees, they have not been able to explain them or answer questions about them personally. All schemes have been presented to committees by the Valuer—or, since the change-over a few months ago, by the LCC Architect.

*

But a new procedure has now been decided on. In future private architects will be allowed themselves to attend the Housing and Town-Planning Joint Development Sub-committee (the sub-committee which examines housing plans) when their designs are being discussed. This is a great step forward, not only because

the sub-committee will be enabled to discuss details of a scheme with the actual authors of it, but because close personal contact between committee members and architects, instead of contact only through officials, should certainly make for a better understanding. The LCC Housing Committee, who have initiated this change, must be congratulated.

ANGLO-AMERICAN AID

The report of the US Productivity Team follows so closely upon that of the Working Party that it is inevitable, and perhaps intended, that the two should be read together. On the face of it, the Productivity Team's Report makes really exciting reading, much more so than the Working Party, a lot of which merely repeats what we have all known for years. Admittedly, America is always news to most of us, and the Report is very well laid out with plenty of illustrations (HMSO please note), but there is also an air of adventure and enthusiasm about the whole thing which makes it really interesting. I take my hat off to Secretary Rowlands, who has had the formidable task of producing a Report to satisfy the profession, the contractors, the Union officials and the operatives who made up the team. However amiable the individual members, there must have been considerable differences in outlook which had to be reconciled.

*

After looking at the wage rates for craftsmen and wondering whether an architectural practice is worthwhile, I naturally turned to the chapter covering the architect's contribution towards increased production, and was somewhat embarrassed to find that he seems to be more efficient (as a busi-

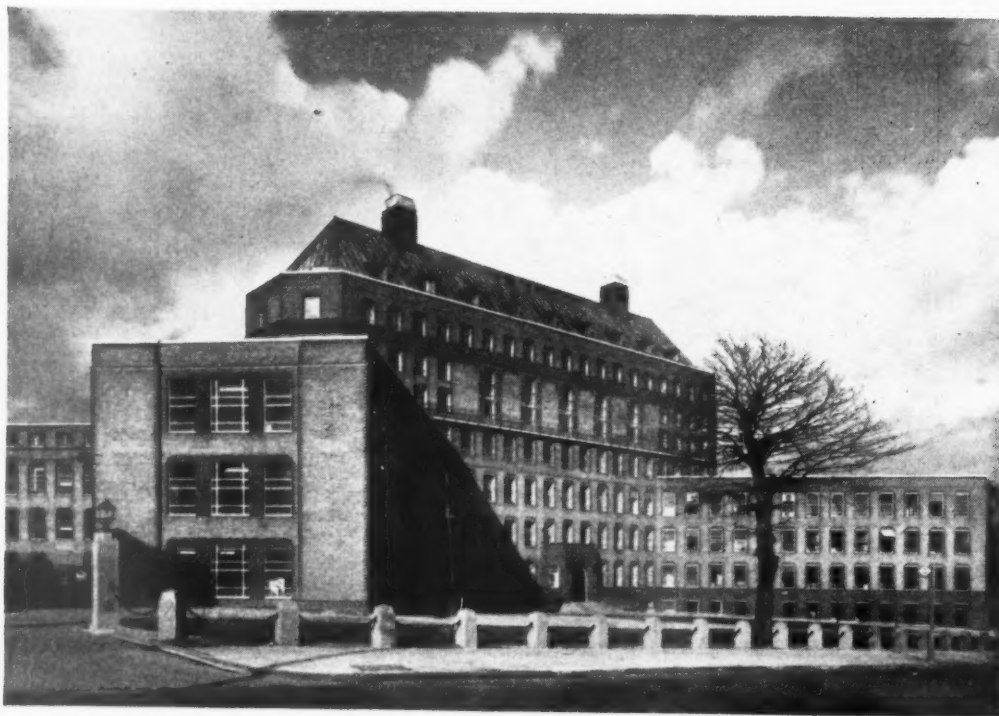
ness organization) than most of us are here. Contractors base their prices on *complete and detailed information* (the Report's italics) and the time taken to prepare full drawings seems to be more than regained by the rapid progress the contractor can make when the job starts. "It would be unthinkable in America for a contractor to be instructed to send half a dozen labourers to a site to start excavating at a time when the final designs were not more than half sketched out in the architect's office, merely to satisfy the owner's desire to see work in progress."

PRIVATE PRACTICE

The Annual Report of the RIBA Council announces that the JOURNAL's speculations about architects' future incomes are going to be powerfully supplemented, at least as regards one section of the profession. The Committee which is enquiring into the present and future of private practice received 11,150 replies to its questionnaire and these are being carefully analysed. A preliminary report will be made to the Council in a few weeks. No date is yet given for publication of the final report, but there can be no doubt at all of its importance and of the profound interest with which it will be received by architects, allied professions and the public.

*

It will reflect the changes both of the war and of 1945-50—of 12 years during which the number of Associates has doubled, in which all new entrants to the profession have been fully trained, and in which official architects have greatly increased in number and many architects have been recruited into town and country planning.



NATIONAL INSTITUTE FOR MEDICAL RESEARCH, MILL HILL
Maxwell Ayrton, F.R.I.B.A., *Architect*

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ENGINEER'S SAGA

A Lutyens story which was new to me is the one of his dinner party in New Delhi at which a piece of chalk was laid in each place, so that his guests might illustrate their conversation on the ebony table top. It comes, with other things that will stick in various levels of my mind, from Mr. Geoffrey Harrison's biography of Sir Alexander Gibb.*

Should books about the famous living be written by any but the subjects themselves? There are reasons for saying no, and in the present case it isn't altogether easy to see Sir Alexander plainly through the rather over-hearty atmosphere with which Mr. Harrison envelops him. But even if the subtler shades of his character don't quite come through, there can be no mistaking his stature, as an engineer and as a man.

Descended from a long line of civil engineering contractors, Alexander Gibb was articled to Sir John Wolfe Barry, took over the control of his father Easton Gibb's business at the age of twenty-eight, became Civil Engineer in Chief to the Admiralty in the 1914-18 war, and in 1921 left contracting to return to the profession of consulting engineer to which he had been trained; the firm of Sir Alexander Gibb and Partners was founded the next year. His career has touched recent history at many times and in many places—if not from China to Peru, at least from Christmas Island to Park Royal—and Mr. Harrison's enthusiastic account of it is well worth reading.

THE LESSOR SCHEME

The JOURNAL's comments on the new Government office buildings have now been echoed in a higher place. I hope the fact that the attention of the Minister of Works has been drawn to their shortcomings, and to the strong feeling there is about them, will result in some action being taken.

I quote from Hansard the following exchange which took place last week at Question Time in the House of Commons (the discussion began with a question about the rent to be paid for St. Anselm's House, Davies Street, and continued thus):

Mr. Driberg: Could my right hon. Friend say whether this building is one of those which are put up under what is known as the Lessor Scheme, and, if so, is he aware of the widespread concern among architects and others about the quality and design of some of these buildings?

Mr. Stokes: Yes, sir.

There followed some other questions about the employment of stone carvers and a temporary office building in Aberdeen, after which Mr. Driberg returned to the attack.

Mr. Driberg: While welcoming the assent of my right hon. Friend a minute ago to the proposition that there is widespread concern about the poor quality of design of these buildings, may I ask if he will consult with the Minister of Town and Country Planning to see what can be done to prevent the further defacement of London?

Mr. Stokes: I have that constantly in mind, I can assure my hon. Friend.

Somewhat indefinite replies on the part of the Minister, but at least the whole question of these buildings has been brought to the public's attention.

POLES APART

It was recently announced that the congress at Warsaw, planned for next September by the International Union of Architects, would not take place after all, though no very clear reason was given. The reason has now been made clear by a letter, a copy of which I have just been shown, addressed to the General Secretary of the UIA in Paris (M. Pierre Vago) by the Polish Section, and signed by Helena Syrkus, the Polish representative on the UIA Executive, and Josef Ufnalewski, President of the Polish Section. It fills me with the utmost depression.

The purpose of the letter is to make three specific declarations:

1. That the Polish Section "can only continue to take an active part in the work of the UIA on condition that Yugoslavia does not participate."
2. That the Polish Section feels it necessary for the Executive Committee of UIA to sign the Peace Manifesto recently proclaimed at Stockholm at a meeting of the World Congress of Partisans of Peace, and that failure to do so "would lead the Polish archi-



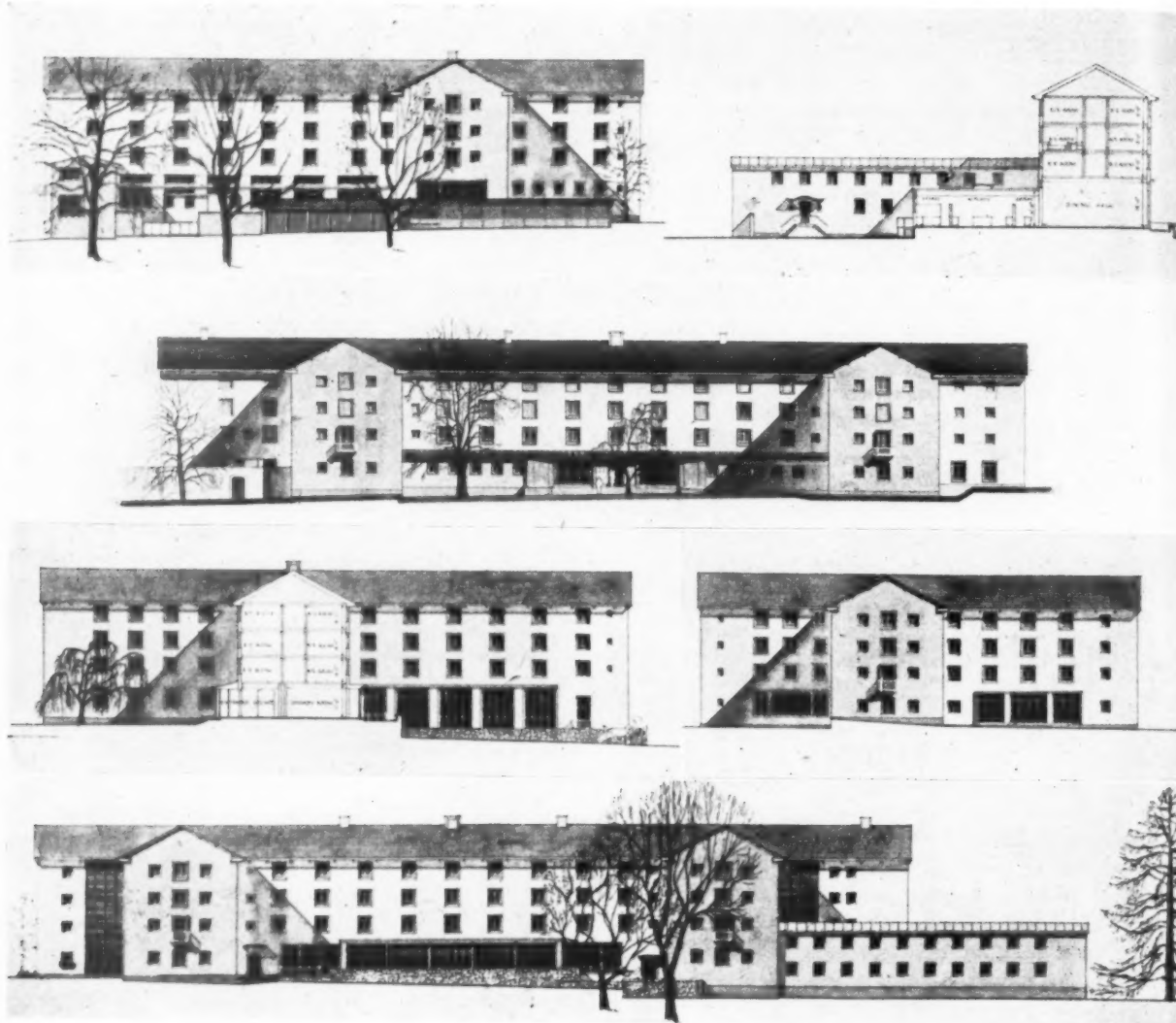
Right, St. Anselm's House in Davies Street, designed by Howard and Souster. This is one of the blocks of offices erected under the MOW's Lessor scheme, and referred to at Question Time in the House of Commons last week. (See Astragal's note.)

itects to conclude that the UIA had ceased to be an organization of service to the progress and development of architecture."

3. That a request made in a letter from the General Secretary on the subject of the proposed Warsaw congress, asking that the Polish Section should give a guarantee that all those attending "would be afforded the opportunity to take part freely in the work of the conference and to leave Poland without any obstacle after the close of the assembly" must be officially withdrawn, as being offensive to Polish hospitality.

Well, where do we (or, rather, the UIA) go from there? I know how anxious they are to continue to collaborate with the eastern European countries and how highly their participation is valued. So I am sure M. Vago (and Sir Patrick Abercrombie and the rest of the British Committee) will do all they can to avoid a break. The third demand I should think could be met by putting the international requirements in a more tactful form that does not reflect on the hospitality of the Polish people—which is, as many architects have proved for themselves, most generous. And it should not be impossible to persuade the Poles, in answer to their second demand, to accept a more general declaration in favour of peace,

* *Alexander Gibb: the Story of an Engineer.* Geoffrey Bles 15s.



Hall of Residence for Nottingham University

Above, and on page 573, is shown the first prize-winning design that won £1,000 for Richard Turley and W. H. Williamson, of Newcastle, in the Hall of Residence competition organized by the Council of the University of Nottingham. The promoters will proceed with the scheme as set out by the winning competitors. Following is an extract from the report of the assessor, Sir Percy Thomas:—"There were two main problems—the planning of the public rooms (common rooms, library, dining hall, etc.) so that these rooms should have the proper aspect and be bright and cheerful, and the planning of the upper floors so that the study-bedrooms also should be light and airy and that the majority of them should have sunshine for at least some part of the day. The combination of these two requirements was not easy and often led to either the public rooms or the upper floors being badly planned. The design placed first is an excellent solution of the problem set to competitors. The plan is neither too compact nor too sprawling. The public rooms are nicely placed looking south over a terrace and

the dining room and kitchen arrangements are admirable. The accommodation for the warden, bursar, vice-warden and lady cook is conveniently placed and the upper floors are grouped around two main staircases which both lead down to the main entrance hall and corridor. The elevations are simple and well-proportioned and if nicely detailed should make a very attractive building, and although a few of the bedrooms have north light and the bath and lavatory accommodation is rather inadequate, on the whole I have no hesitation in awarding this design the first prize. The estimated cost is £222,698 with an additional £8,395 for the layout of grounds, squash courts and garages." The drawings shown on this page are:—Top left, elevation facing east. Top right, section on line A-A of lower ground floor plan (page 573). Second from top, elevation facing north. Second from bottom: left, section on line B-B of ground floor plan (page 573); right, elevation facing west. Bottom, elevation facing south. (The second and third winning designs are illustrated on pages 574-575.)

one that does not mean allying the UIA with political movements—a thing it must obviously avoid, whatever their colour.

*

But the first demand (about Yugoslavia) strikes me as impossible to get over, if the Poles insist on it. No organization that sets out to be international could possibly agree to it, and if the UIA is not genuinely international it is nothing.

THE PROFESSOR AND THE PUB

Prof. Richardson has (to employ an army expression) stuck his neck out again—or perhaps I should say he has put his foot in it. He has written a letter to *Building*, severely criticizing modern pub interiors and referring (without mentioning names) to “designers and promoters of competitions for modern pubs.”

*

It is quite clear what competition he means, but the extraordinary thing is that his anger is roused by “modernistic interiors that seem to anticipate the operating theatres of hospitals,” and against plywood, chromium plate and the absence of homeliness. He is apparently under the impression that these are what the competition promoters are in favour of; indeed he describes “designs recently made public” as introducing the “prefabricated and metallic inn.”

*

Can it be that the Professor has been so rash as to launch an attack on the *Review* pub competition without seeing the results or reading the conditions? Not only does he deplore the very things that the *Review* also went out of its way to warn competitors against, but he puts in a plaintive word for gin palace and village pub character and decorative use of rows of barrels—the very things the *Review* recommended, too.

*

To be assaulted by Prof. Richardson is something many people (including all the South Bank architects) have to submit to, but to be assaulted for fostering the very thing you are trying to stop is rather too hard. I am sending the Professor a copy of the *Review* competition conditions, and I hope he will see his way to make amends.

ASTRAGAL

The Editors

THE WORKING PARTY AND PRODUCTIVITY TEAM REPORTS

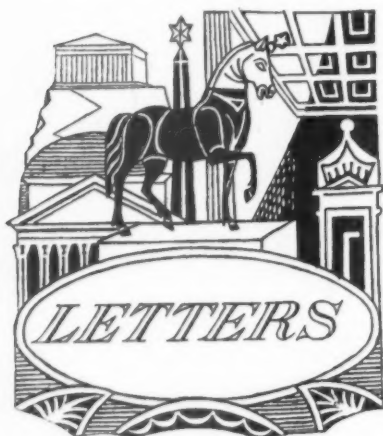
LAST week two long-awaited and extremely important reports on the building industry were published. The first report, that of the MOW's Working Party, can best be described as an unspectacular but solid document. As readers will have noticed in the summary of the report's conclusions and recommendations, published in last week's *JOURNAL*, no startling suggestions are made. It is, indeed, the most mildly worded report which could be produced under the circumstances. By contrast, the report of the USA Productivity Team is both stimulating and informative. The team spent six weeks in America with the task of examining the organization, constructional techniques and industrial outlook of the American building industry, and of drawing conclusions from a comparison of American and British constructional practice likely to increase productivity in the building industry over here. The result of this study is a document which acts as a perfect foil to the more ponderous ministerial report. The two reports are best read and examined together. The *JOURNAL* has therefore asked a team of four to study them and to prepare a review which will give the gist of the two publications and suggest the effect they should have on the industry as a whole, and on the architectural profession in particular. The team consists of a scientist, R. Fitzmaurice, known for his work with the DSIR; an architect, Raglan Squire, of Arcon; a builder and civil engineer, S. Marshall Andrew; and an economist, Professor Ian Bowen. This review will appear in next week's issue of the *JOURNAL*.

RESTORING PRIVATE BUILDING CUTS

The recent decision of the MOH to allow the return of the ratio of one house built by private enterprise to five houses built by local authorities, instead of the one in ten ratio which was the restriction made this year, will not be the cause of wild enthusiasm on the part of builders and architects. Although a step in the right direction it confirms the criticism of the working party report, which is repeated in a joint statement issued by the RIBA and the NFBTE, that these constant alterations in the policy of issuing licences to build does considerable harm to the efficiency of the building industry.

Admittedly, the target for housing output has been fixed at 200,000 a year for three years, but this figure, as the Minister of Health himself once stated, is no more than the amount needed before the war to replace houses that were falling down through obsolescence. This figure is plainly inadequate, and other sources of housing are now coming to an end. The temporary house programme is complete, the war damage programme is nearly over, and the creation of new dwellings from old houses is running down. Any method, therefore, of

increasing the number of houses without draining labour and materials from local authority housing schemes should be welcomed. One way of doing this would be by allowing privately sponsored house building to go on at a considerably increased ratio, provided materials and techniques of construction were used which would not be likely to interfere with the official programme. This could provide a useful source of experiment for the industry, both in house design, as well as construction, which could be carried out at private expense. Last, but not least, such a scheme would give many young architects a better chance to practise their art.



Gerald Stanwell, A.R.I.B.A.

A Competitor

John Swarbrick, F.R.I.B.A.

More or Less of the "Lessor"?

SIR.—The apparent indifference to what the public may think of the Lessor Scheme and other violations of what was once hoped for—the revival of a first rate plan for London—has been touched on in your columns, and I felt stirred to renewed activity by the editorial comment: "The voices of protest are not yet sufficiently strong to affect the issue. Silence now can only imply consent."

A certain ray of hope or plausible excuse for a prevailing ignorance was suggested at an important discussion in March, 1949, when Mr. Andrew Boyd said: "None of the arts comes from within itself, and if architecture is decadent it is not because we are specially depraved people but because conditions of social life, the demands of the clients, their nature, their programme, their ideas, and the whole of the social environment in which we find ourselves do not facilitate the fullest development of our art."

So far so good. But then Mr. Boyd went on to give the "recipe" for "a great architecture in England" as a dominant working class with society moulded by "the great ideas of socialism."

But great numbers of the working class today are the white-collar-boys of yesterday; and the working classes of yesterday

are the comparatively leisured operatives of today. As for "great ideas," let's have more of them! Where are they?—In the Lessor Scheme which has set such a contradictory standard of town planning? I suggest at this stage that the general public's silence (not to mention that of the technical ranks) may be some phase of numbed bewilderment. It has seen this half-hearted, partially-vulgarized but originally beautiful style, before.

Let us not be overconcerned about "the great ideas of socialism" so long as we get the great ideas. But as Mr. Dex Harrison observed: "We are not going to get an architecture of great quality except in individual examples. In other words, our architects have now become so universal that there are not enough spirits of sufficient sensitivity to make all our buildings into fine art."

GERALD STANWELL.

Kent.

Whitehaven Competition

SIR.—In your review of the above competition it is stated that about fifty per cent. of the entries were "discarded" by the assessor, as they contained serious defects in planning, such as wrong siting of entrances and badly proportioned public halls.

It seems that the word "discarded" is a very harsh term to be applied to fifty per cent. of the competitors who, no doubt, spent much time and effort on their designs and who may now think that under this wording their efforts were just fit for the waste paper basket.

I also cannot understand how there could be any question of wrong siting of entrances as there are only two roadways to which the entrances could be placed and under the replies to competitors' questions on this matter it is stated as follows, viz:—

"Question 9 (Q) Adjoining roads and siting of main entrance. (A) Of the three streets bounding on the site Lowther Street is the most important and Catherine Street is the least important. The traffic flow on these streets will not be affected by any town planning proposals. The Council have no preference for the siting of the main entrance as between Scotch Street and Lowther Street, etc."

In the above reply it is shown that there was no preference made by the Council, and if as now stated fifty per cent. of the designs were "discarded" for, among other things, "wrong siting of entrances" then there must have been a preference for a certain siting, but this was never stated in either the conditions of entry or replies to competitors and it must only be by chance that the other fifty per cent. arrived at the proper siting?

There seems to be something wrong with the competition system and the conditions drawn up for architectural competitions when that number of competitors are discarded through no fault of their own. No

doubt they thought that either of the two main streets was suitable for the entrance to suit their own individual lay-out.

I am not questioning the award or the skill of the winners, but I am sorry for the fifty per cent. mentioned who had their designs discarded through possibly faulty or inadequate conditions of entry.

A COMPETITOR.

Edinburgh.

Reforms for the RIBA

SIR.—It is hoped that the new RIBA council will bring about a few reforms that have been long overdue. I refer, among others, to the anomaly of allowing the chairmen of committees to remain in office from year to year, although presidents of the Institute itself cannot remain continuously in office for more than two years. No criticism of any of the chairmen, as individuals, is possible. Each is highly qualified to serve the council in this way, but so are the presidents of the council. As a former member of both the council and a series of committees, I think I can look at this matter with impartiality. To me it is clear that no chairman on any committee should be the only member competent to preside. If there should be any committee of which the chairman is the only member competent this is clearly most regrettable and a matter to which the new council should direct attention. One of the disadvantages of a continuous chairman is that no chairman can be fully informed about the vast resources of the Institute today in respect of talent. As long as I have served on committees each chairman has been supported by his coterie of supporters, who have regarded it as disloyalty to suggest that the service in the chair of any other member of the committee might be of advantage, even as a temporary measure. A compulsory change every two years would dispose of this difficulty without any resentment.

A further reform is desirable owing to the fact that each year the committees send the council lists of those whom they consider to be suitable for election. The lists prepared by the committees are submitted to the council immediately after the elections and it is one of the first duties of the newly elected members to approve or amend the lists prepared. This task is usually regarded by most of the busy members as an irksome imposition and the temptation is to get rid of it wholesale, in the most perfunctory manner imaginable. The bulk of the members glance at the scores of names, most of which convey absolutely nothing or next to nothing, and realise that they are hopelessly unqualified to assess the relative qualifications of men they have, in most cases, never seen. It must be remembered that the members of the council come from different parts of the country and, in most instances, know little about nominees who come from other areas.

As far as I can see, the best course would be to revert to the more democratic procedure adopted until shortly before the last war. Before that time, any members of the Institute could nominate those whom they regarded as most suitable to serve on any of the standing committees and all the members of the Institute could vote for them. This was an infinitely more satisfactory proceeding than that of compelling a reluctant council to make the selection. Moreover, this method prevented important standing committees from becoming exclusive coteries, to which talented members of the Institute, not known personally to the chairmen, had little, if any, chance of gaining admission. Most members of the council would, I imagine, be thankful to be relieved of this odious task for ever.

JOHN SWARBRICK.

London.

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

HOUSING BY BIRMINGHAM STUDENTS



KENT

Panel of Architects to be retained

Kent County Planning Committee has decided to extend indefinitely the arrangement, made initially for twelve months, whereby a panel of independent architects is available to advise the council on the architectural aspects of certain planning problems.

The chairman of the County Planning Committee, W. Wigham Richardson, believes that the existence of the panel is of great value, not only to the council but to the public. He points out that in a case of a person wanting to build a house to a design which the council considers unsuitable the decision must be based on taste and not on fact. It is therefore assuring to persons proposing to build—and to their professional advisers—to know that a panel is available to give an independent opinion on the merits of proposals.

ICA & RIBA

Lecture on Moholy-Nagy

The ICA and the RIBA have arranged for an illustrated lecture to be given on the work of Moholy-Nagy at the RIBA. It will be given by Sybil Moholy-Nagy on May 24 at 6 p.m.

IFE

Architect Appointed

Douglas L. Dick, F.R.I.B.A., who was principal architect to the *Daily Mail* Ideal Home Exhibitions for the years 1948, 1949 and 1950, has been appointed organizing architect to the Industrial Finishes Exhibition to be held at Earls Court from August 30 to September 7.

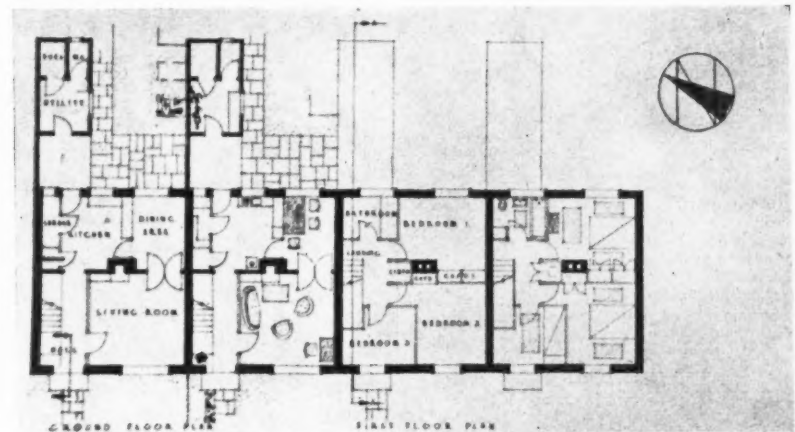
V & A MUSEUM

Galleries Re-opened

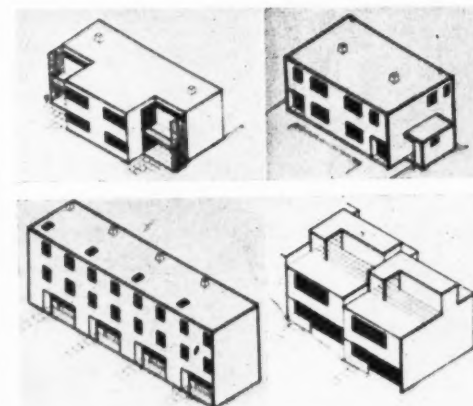
Newly decorated and arranged galleries, exhibiting the Decorative Arts in England from 1660 to 1750, together with portrait miniatures from 1750 to 1850, have been opened at the Victoria and Albert Museum, Kensington. These rooms (numbers 56 to 58) include some of the finest English furniture in the Museum's collections as well as three period rooms—an oak-panelled room from Cliffords Inn (1618), a room from Hatton Garden (1730), and a room from Great George Street, Westminster (1760).



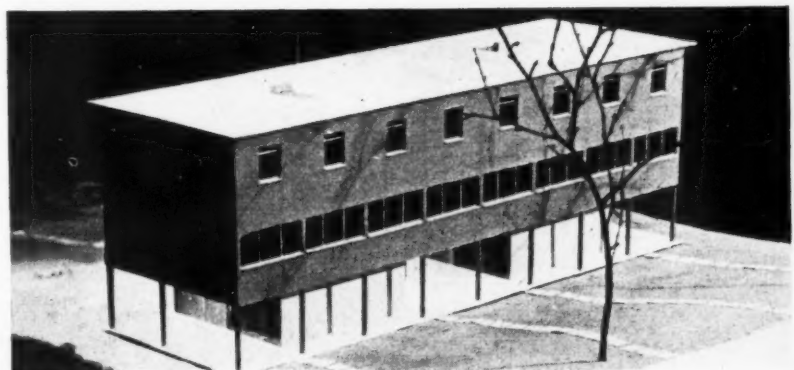
Model of brick house by David Radford



Plans of above house



Above, variations on use of standard components used by P. Gower in "frame house" (below)



These drawings and models of terrace houses, designed by third year students of Birmingham School of Architecture will be on view at the Building Centre, London, from May 15 to 24. The brick houses shown above, will shortly be built in Birmingham and it is hoped that the "frame" group of houses (below and left) will also be built in the near future.

COVENTRY

Assessors appointed for Cathedral Competition

The Coventry Cathedral Reconstruction Committee has announced the appointment of the following to act as a jury of assessors in the forthcoming architectural competition for designs for the new Coventry Cathedral and ancillary buildings:—Sir Percy Thomas, Edward Maufe, and Howard Robertson.

The assessors were nominated by Michael Waterhouse, president of the RIBA, and the appointments have received the confirmation of the Cathedral Council and the Joint Council of the Cathedral Christian Service Centre.

IQS

Institute recognised by MOLNS

The Council of the Institute of Quantity Surveyors have now obtained full recognition from the Ministry of Labour and National Service. Students and probationers enrolled for the Institute's Examinations can now obtain full deferment from military service while training for these professional examinations. The Council's professional examinations are also recognized by the Local Government Examinations Board. On qualification, members become eligible for promotion and all the financial reimbursements.

DIARY

Exhibition of Paintings, Sketches and Photographs. Work of IAAS members. At 75, Eaton Place, S.W.1. Daily, 10 a.m. to 5 p.m. UNTIL MAY 12

British Industries Fair. At Earls Court and Olympia. Daily (except Sunday), 9.30 a.m. to 6 p.m. Closing 4 p.m., May 19. (Also at Birmingham). UNTIL MAY 19

1951 Stock List Exhibition: Domestic Equipment. At Murray House Exhibition Hall, Vandon Passage, Petty France, S.W.1. (Sponsor, CID). Daily, 10 a.m. to 5 p.m. Saturdays, 10 a.m. to noon. UNTIL MAY 24

Percy Smith Memorial Exhibition. At RSA, John Adam Street, W.C.2. (Sponsor, RSA). Daily, 10 a.m. to 5.30 p.m. Saturdays, 10 a.m. to 12.30 p.m. UNTIL MAY 26

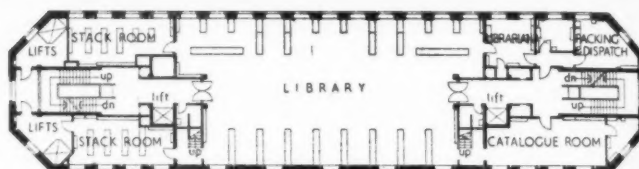
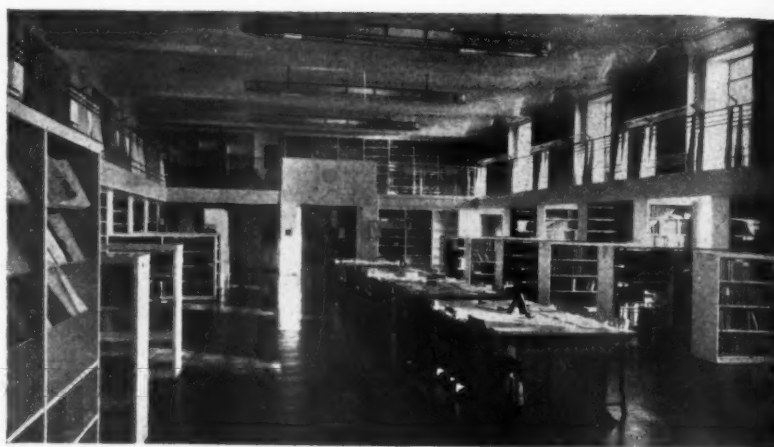
New Ideas in Furniture: Exhibition. At the Tea Centre, 22, Regent Street, S.W.1. (Sponsor, CID). Daily, 10.30 a.m. to 6.30 p.m. Saturdays, 10.30 a.m. to 12.30 p.m. UNTIL MAY 27

Exhibition of Unidentified Drawings. At 66, Portland Place, W.1. (Sponsor, RIBA). Daily, 10 a.m. to 7 p.m. Saturdays, 10 a.m. to 5 p.m. UNTIL WHITSUN

Picasso. (Series of lectures, admission free). Professor A. F. Blunt. At Courtauld Institute of Art, 20, Portman Square, W.1. 5.30 p.m. MAY 16 AND 23

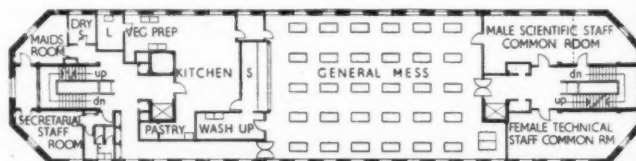
A Builder's Observations of the Requirements of the Various Members comprising his Industry. D. E. Woodbine Parish. At Hammersmith School of Building and Arts and Crafts, Lime Grove, Shepherd's Bush, W.12. 3.15 p.m. MAY 16

NATIONAL INSTITUTE OF

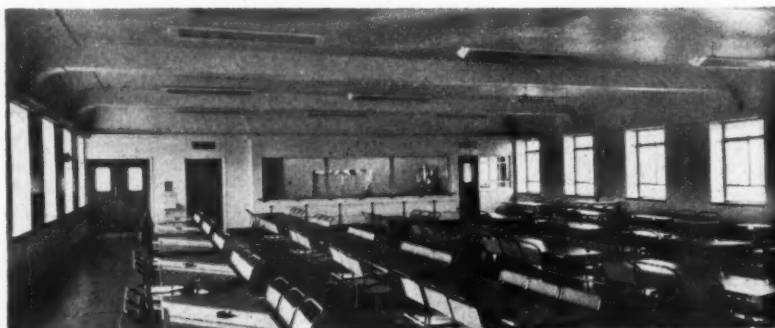


Plan of fourth floor
[Scale: $\frac{1}{4}$ " = 1'0"]

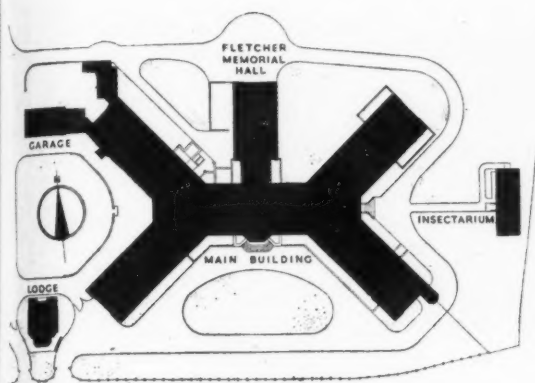
The headquarters of the National Institute for Medical Research at Mill Hill, designed by Maxwell Ayrton and Partners, which was inaugurated by the King and Queen on May 5, was begun in 1938, after the original institute in Hampstead Road had proved inadequate. The carcass of the main building, seen top right on page 571, was completed in 1942, when it was lent to the Admiralty for occupation by the WRNS. Work recommenced in 1946. The building, which stands on a site 375 ft. above sea level, where there is a clear atmosphere, plenty of light, and a certain freedom from building restrictions, accommodates at present a staff of 335, of which 100 are qualified scientific workers. The plan form was adopted to give the maximum of uninterrupted light and air with window units of 8 ft. c. to c. and most rooms are 16 ft. deep and 11 ft. clear from floor to ceiling. The windows are mostly



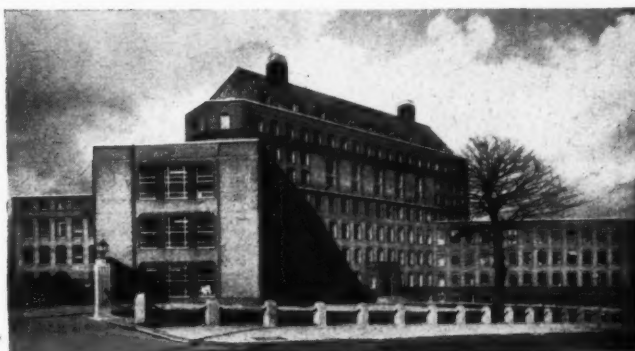
Plan of fifth floor



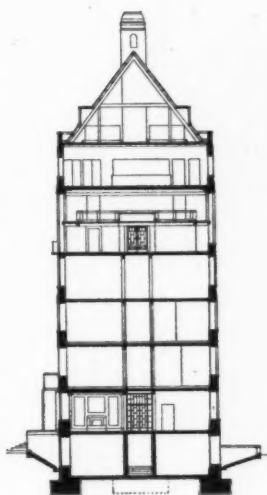
MEDICAL RESEARCH, MILL HILL, LONDON N.W.7.



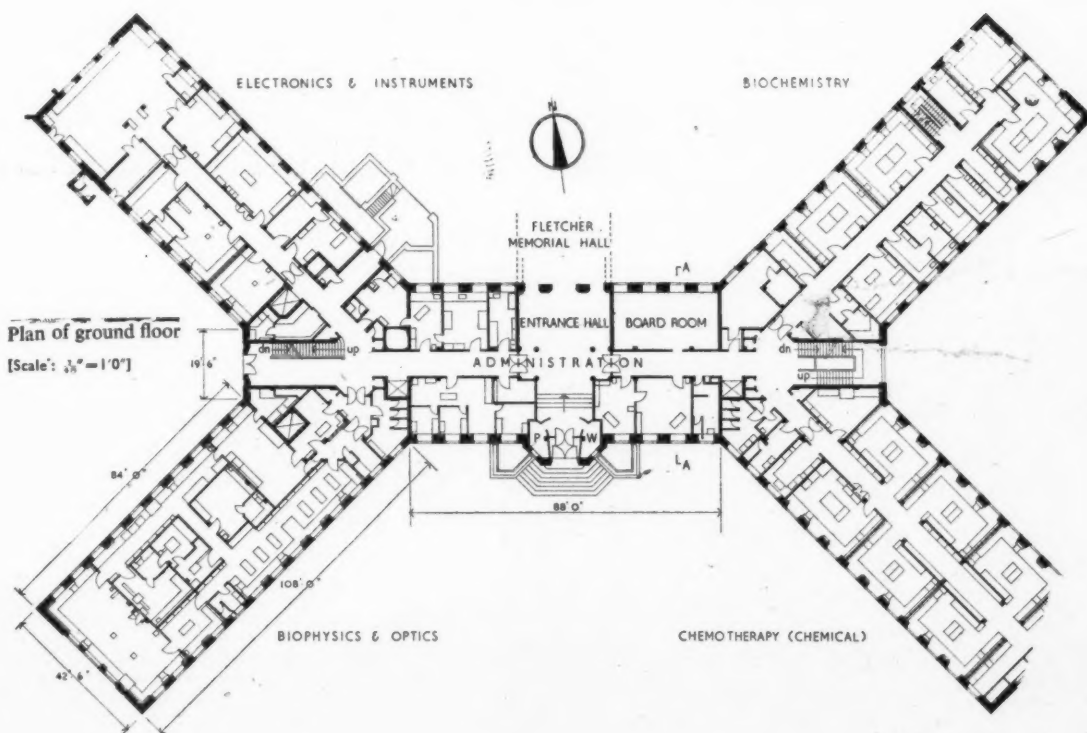
Site plan



3 ft. 9 in. wide by 8 ft. high. The central block has seven storeys and each of the two obliquely set wings have three storeys from ground level at the front, but because of the sharp fall of the ground to the north there are many well illuminated basement and sub-basement rooms. There are laboratories on each floor up to the third, above which are the library, seen on page 570 and page 572; canteen, seen below on page 570, and club rooms. The working space is about 90,000 sq. ft., excluding the stores and the Fletcher Memorial Hall, illustrated on page 572, which is to be used as a lecture theatre. The construction is of solid load bearing external walls with reinforced concrete columns in the corridor walls. The internal partition walls are of diatomaceous earth insulating bricks. The roof



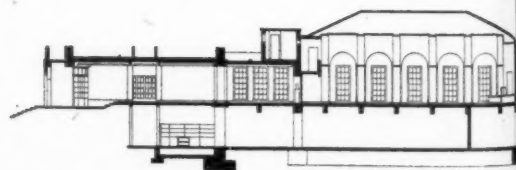
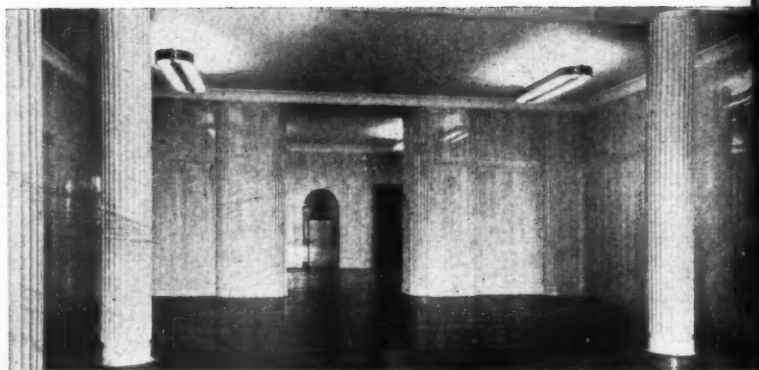
Section A-A



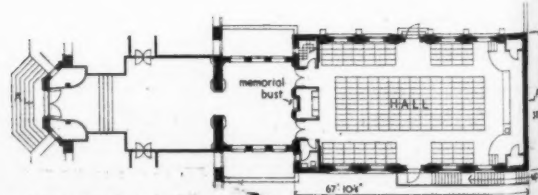
NATIONAL INSTITUTE OF MEDICAL RESEARCH, MILL HILL



is steel, boarded and covered with copper. Nearly every part of the building requires hot, cold and pressure water, compressed air, steam, distilled water in tin pipes and AC and DC current in copper pipes. The general contractors for the carcass were Walter Lawrence & Son, Ltd., and for the war-time conversion, and completion, Trollope & Colls, Ltd. For list of sub-contractors, see page 592.



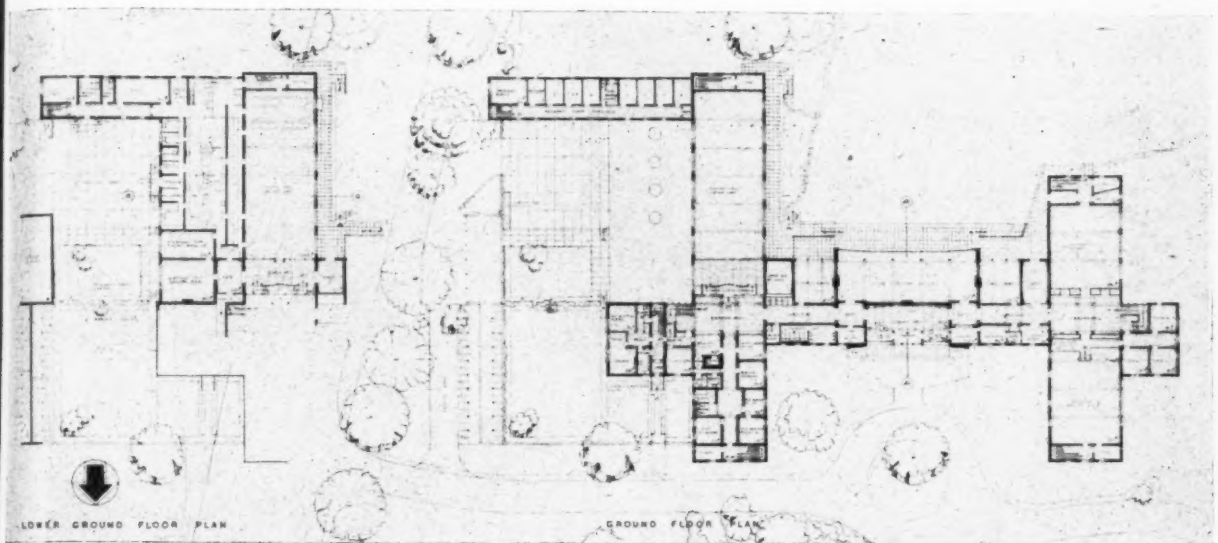
Section A-A



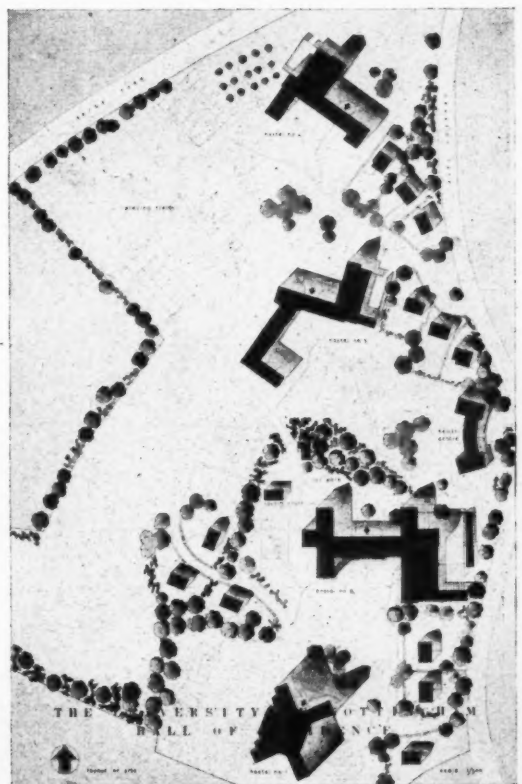
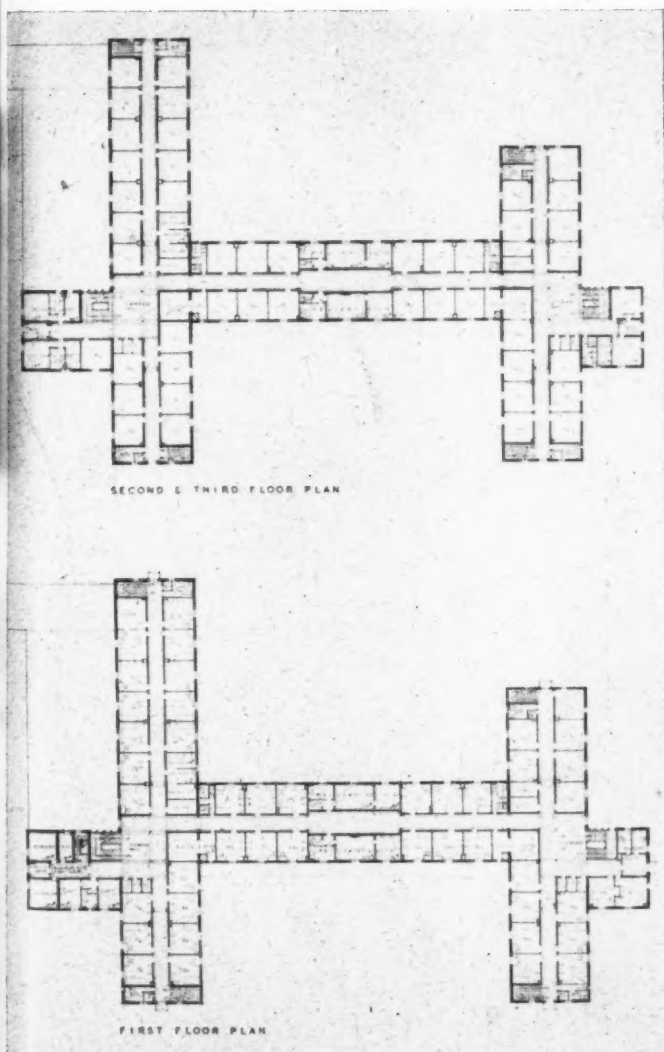
Plan of memorial hall

[Scale: 1/8" = 1']

NOTTINGHAM UNIVERSITY COMPETITION : FIRST WINNING DESIGN



Shown here are winning designs in the competition for a Hall of Residence for 150 women students, organized by the Council of the University of Nottingham. The competition was in two parts : (a) the hall of residence, and (b) a layout of the whole site for four halls of residence at the University. The first prize of £1,000 was won by Richard Turley, A.R.I.B.A., A.M.T.P.I., and W. H. Williamson, A.R.I.B.A., of Newcastle-on-Tyne, whose design is shown here and on page 566.



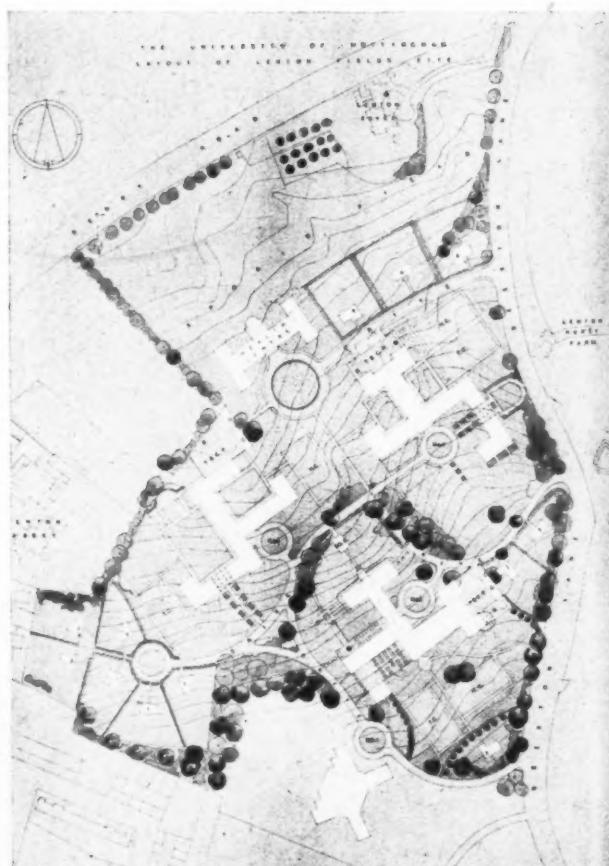
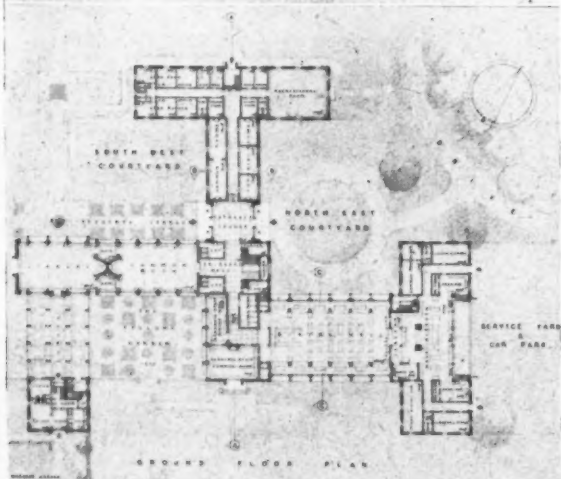
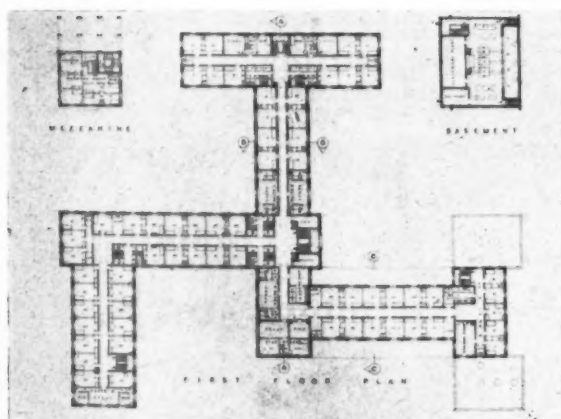
NOTTINGHAM UNIVERSITY COMPETITION FOR HALL



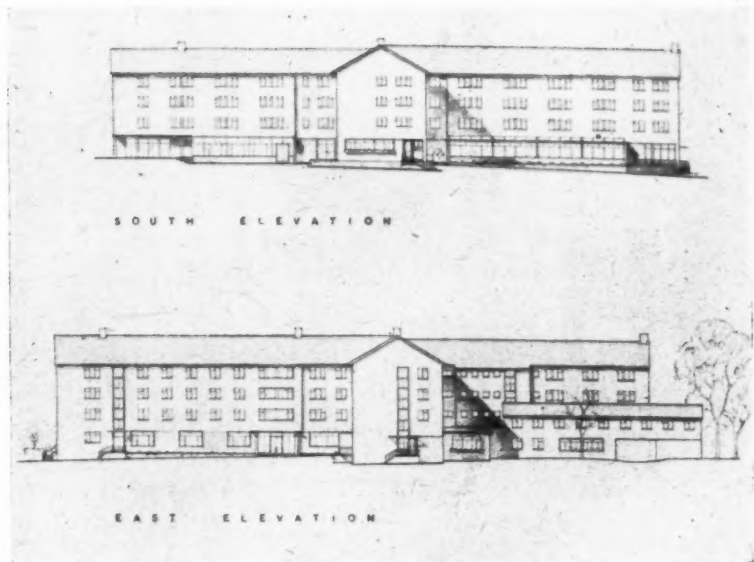
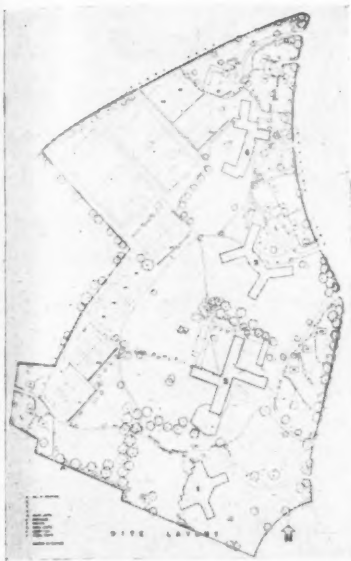
SOUTH EAST ELEVATION



NORTH EAST ELEVATION

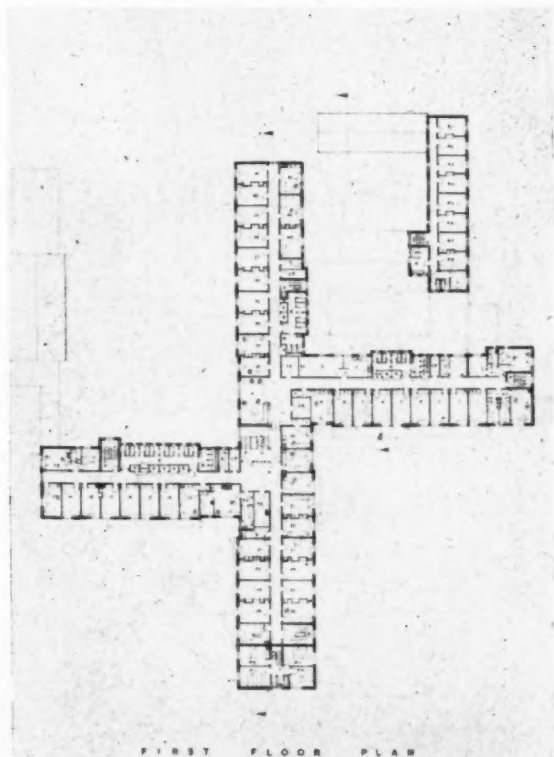
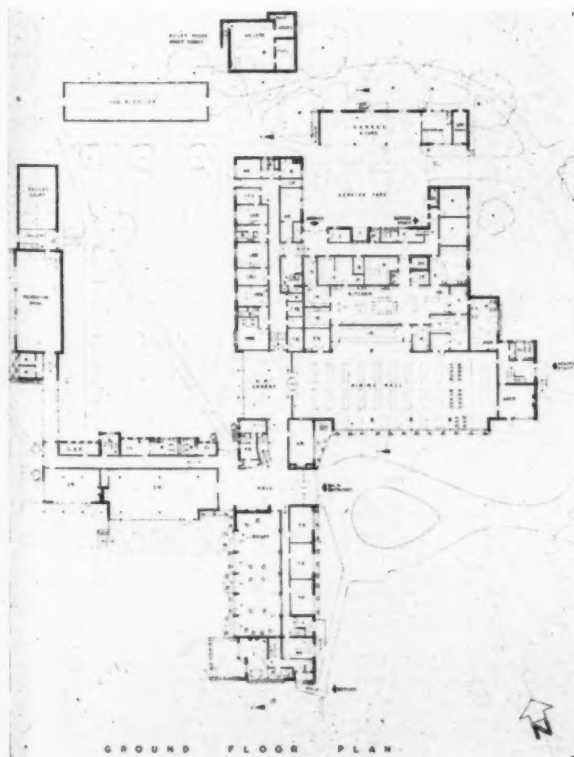


OF RESIDENCE : SECOND AND THIRD WINNING DESIGNS

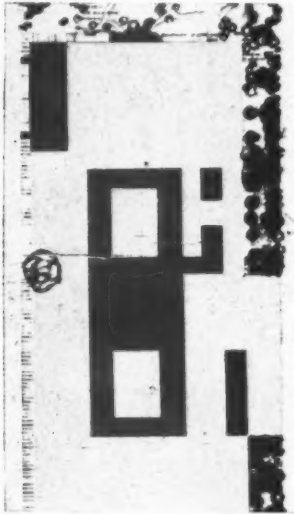


The second prize (£750) in this competition was awarded to W. F. Howard, F.R.I.B.A., of London, whose design is illustrated on the opposite page. The assessor, Sir Percy Thomas, reported that "The design placed second is not quite so compact as the first, but has many good qualities. There would be a tendency for most of the students to use the main staircase. On the other hand, most of the bedrooms are arranged

on two floors, with only a small number on a third floor. The dining hall and kitchen arrangements are not as good as in the scheme placed first." In reporting on the design of J. D. Mead Taylor, A.R.I.B.A., and Miss J. V. Wilson, A.R.I.B.A., of Sheffield, the winners of the third prize (£500), the assessor stated that it was a good, well-planned scheme with the various units well placed. It is illustrated on this page.



FIRST WINNING DESIGN IN COMPETITION FOR SECONDARY



Site plan

The first prize-winners of the competition for a secondary modern school at Hunstanton, sponsored by the Norfolk Education Committee, were Alison M. Smithson, A.R.I.B.A.-DIP., ARCH., and Peter D. Smithson, A.R.I.B.A., DIP.-ARCH. (DIST.), of London, whose design is illustrated here. The assessor, Denis Clarke Hall, pointed out in his report that an interesting feature is the placing of the entire teaching area on the first floor of the main building, leaving the ground floor clear for administration, cloakrooms, lavatories, etc.

He also mentioned the careful planning of internal courts and the flexibility of dining areas. In his opinion, no major revision would be necessary to make this a first-class workable school, although he considered there were places where heights shown were extravagant and pointed out that the placing of the cloakroom made it necessary for many pupils to go a long way through the school to get to them. He also thought the principle of the movable stage projecting into an

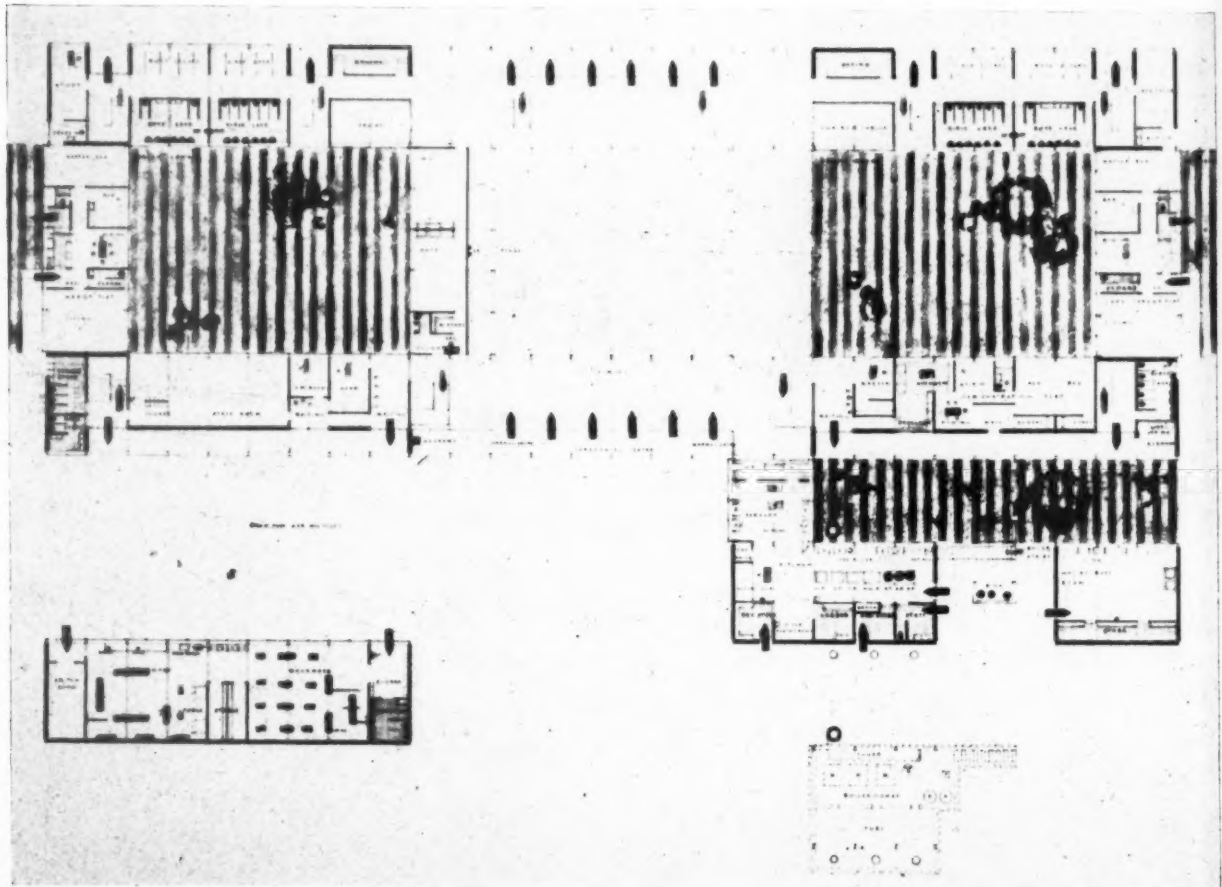
Elevation to the playing fields



Elevation to Downs Road

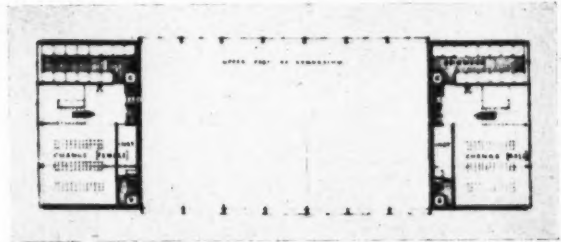


Ground floor plan



SCHOOL AT HUNSTANTON

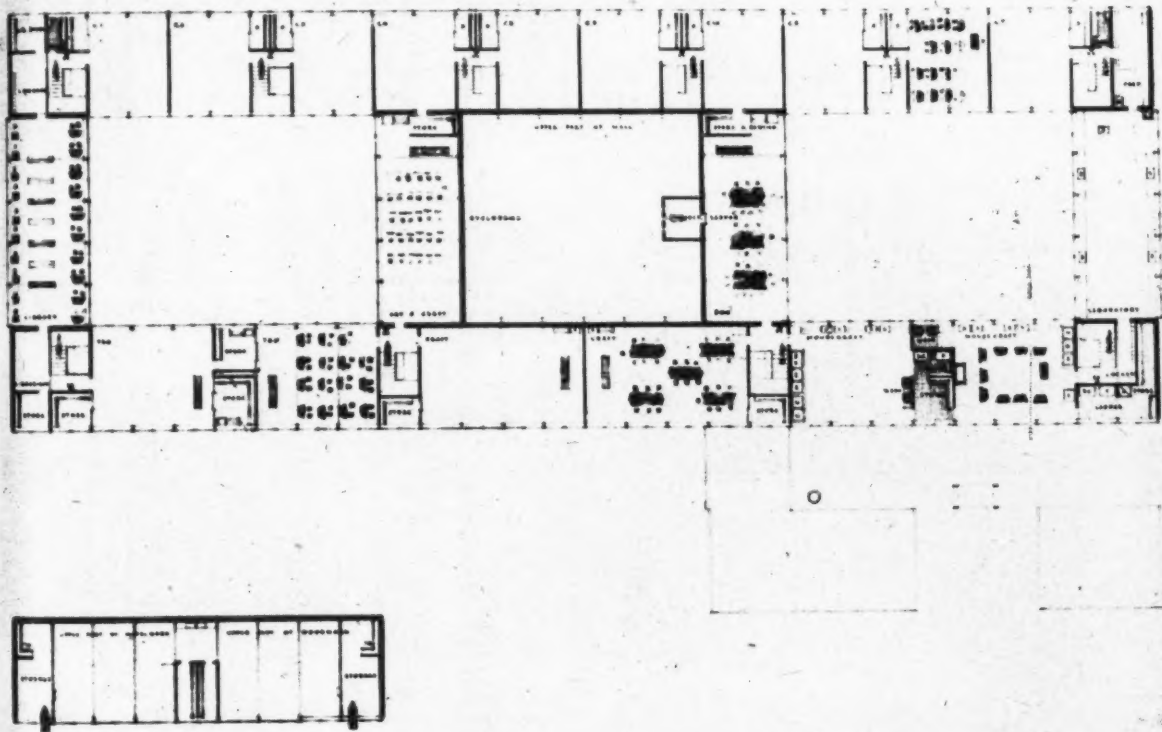
assembly hall might be criticised for secondary schools, but as the stage area was in addition to the total area of the hall there was ample room for replanning, if required, within the main structure. The structure was a simple RSJ frame forming 10 ft. structural bays, and with floors and roof of pre-cast concrete units. The elevations were very carefully and clearly worked out and the drawings were beautifully prepared and presented. The scheme came within the areas prescribed in the conditions and it should be possible to carry it out at the required cost of £131,000.



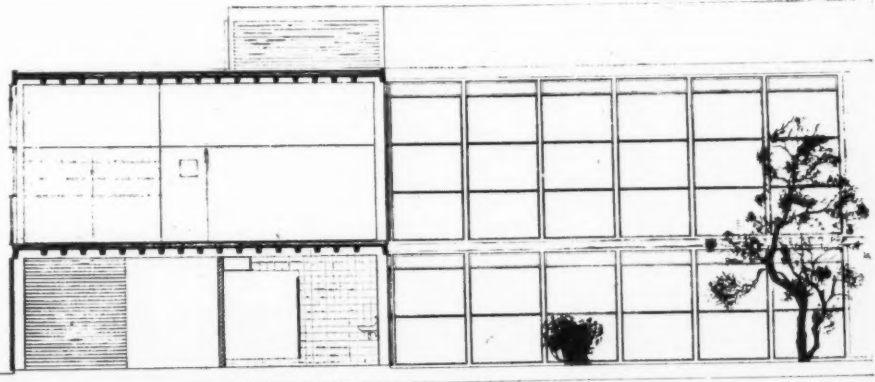
Upper part of gymnasium



Gymnasium [top left-hand corner of site plan]

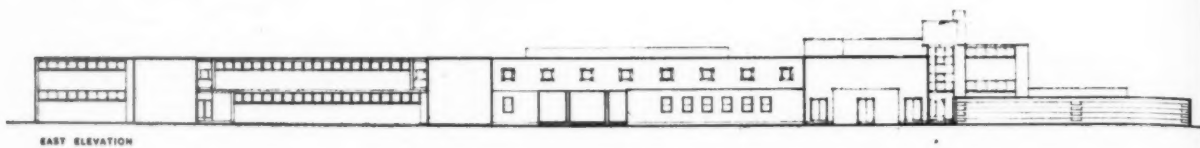


First floor plan

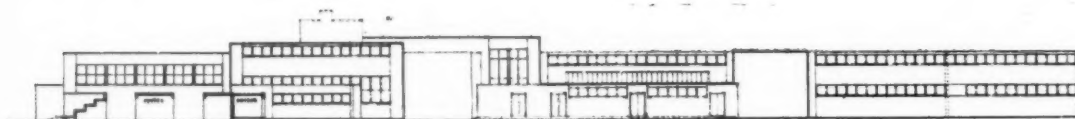


Typical section through south classrooms showing cloaks, corridor and lavatories under, and green court

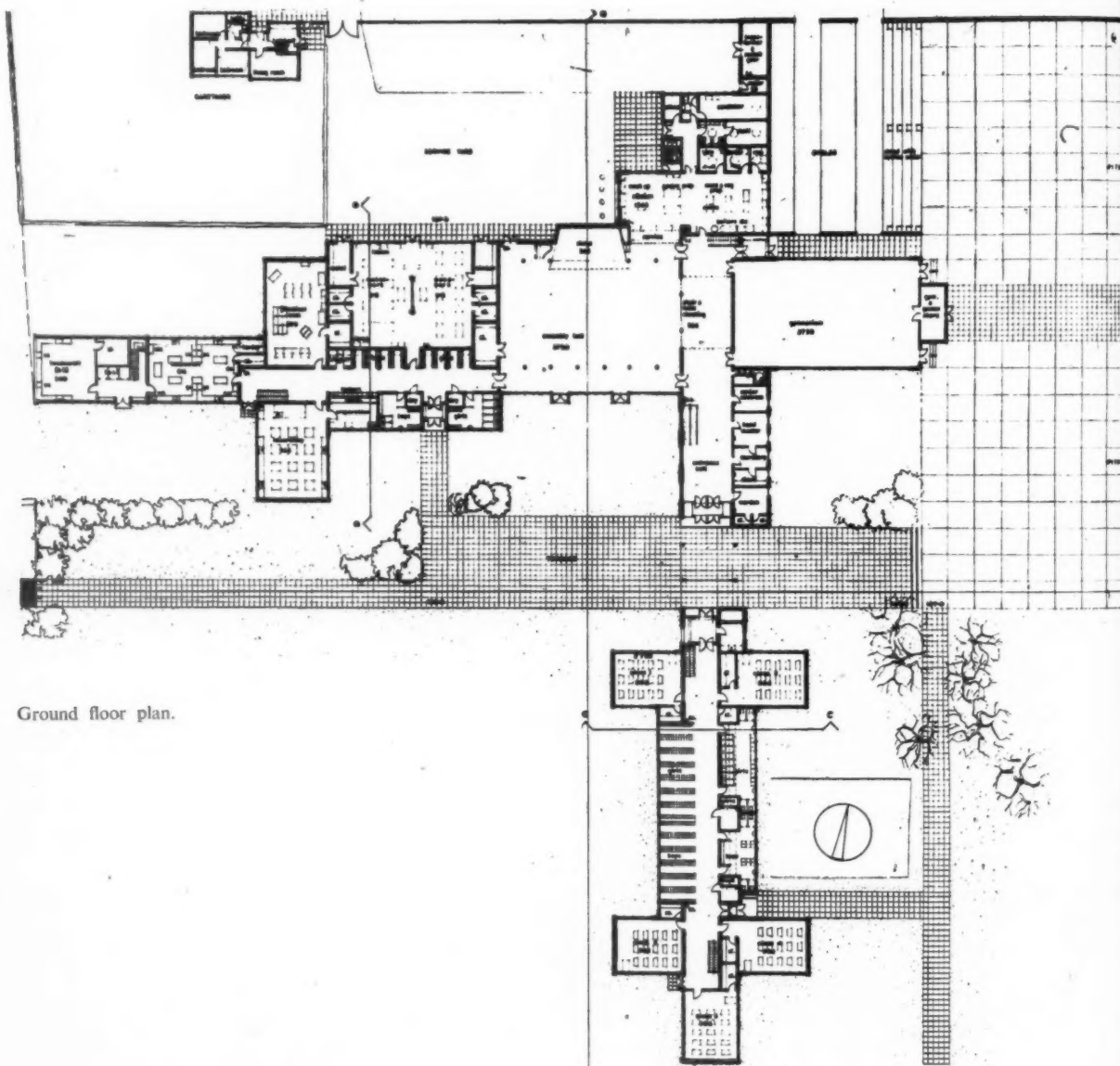
COMPETITION FOR SCHOOL AT HUNSTANTON: SECOND AWARD



EAST ELEVATION



NORTH ELEVATION

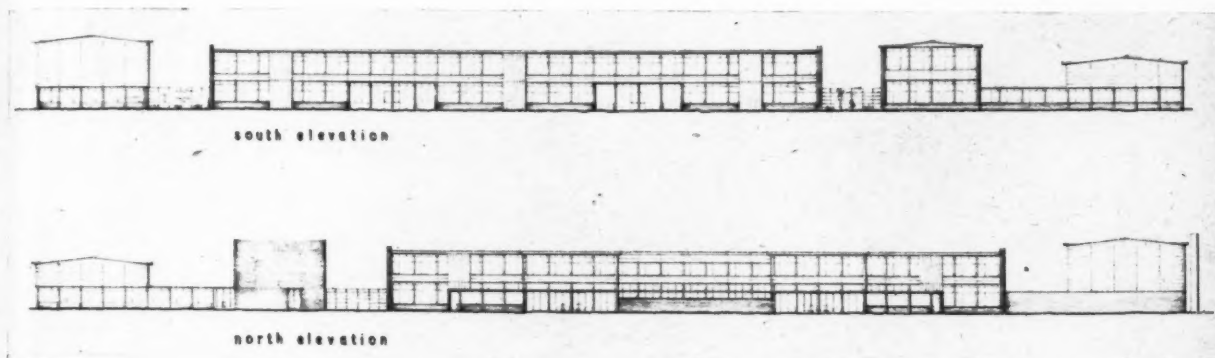


Ground floor plan.

The second award (£250) in this competition was made to John B. Diamond, A.R.I.B.A. (see above). The assessor considered this to be an extremely interesting and economical

plan, but felt that the placing of the assembly hall and dining room on the first floor would not be acceptable, owing to the peak period of circulation being centred on the main staircase.

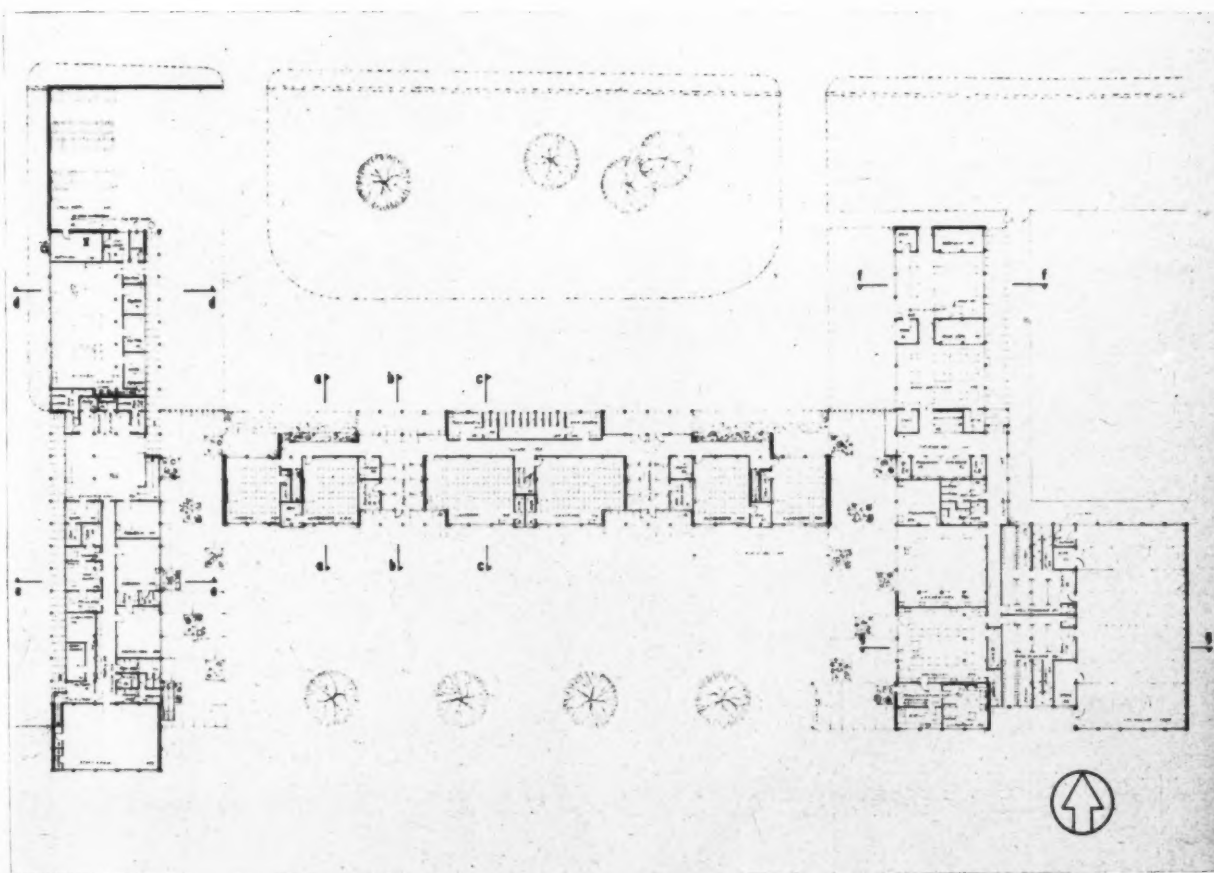
COND AND THIRD WINNING DESIGNS



He considered that the design (shown on this page) by G. Whitby, M.B.E., A.R.I.B.A., of London, who was given third award of £150, was again economical in circulation. This economy was achieved by the use of blocks planned in the form of a cross with a central lobby and staircase. Here again an attempt had been made to have an alternative use for the dining space. In this

case a part of the assembly hall was used. The assessor also thought that the stage might cause criticism by its restriction and door access, unless the two columns on either side of the stage were screened off, so making the full length of the hall into part of the useable stage area. On the whole the scheme had been carefully and competently worked out.

Ground floor plan



FLATS

in WILTSHIRE CLOSE, CHELSEA, S.W.3

[designed by EDWARD ARMSTRONG (ARMSTRONG and MACMANUS)

assistant architect E. HOWARD SADLER

The second major housing development to be completed for the Borough of Chelsea since the war consists of 214 flats, for a total of 986 persons, on an island site bounded by Rosemoor Street, Draycott Avenue, Denyer Street and Rawlings Street. The site, which has been named Wiltshire Close, lies to the east of Sloane Avenue, in the north-east part of the borough, and has a gross area of $3\frac{1}{2}$ acres. This area originally consisted of seven separate island sites intersected by short streets.

Blocks F and E2 looking north-east.





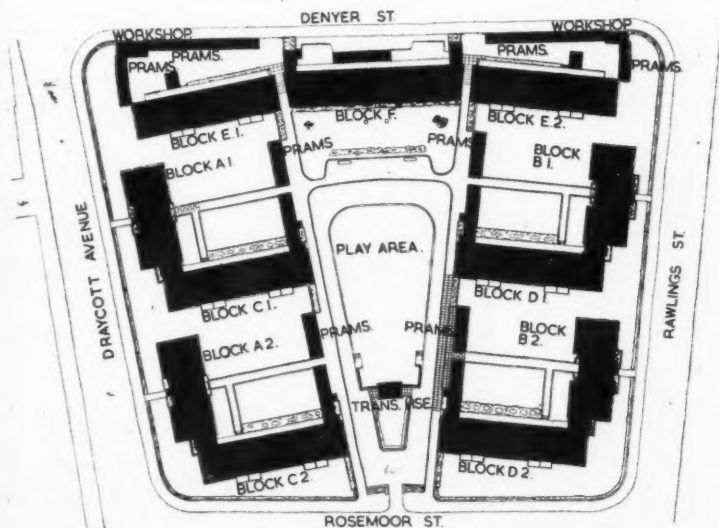
Above, a general view of the entrance to the group, looking north-west. Below right, blocks C2 and D2 looking north-east.

PLAN.—Wiltshire Close is in an area of high land values and, owing to this fact, the Chelsea Council were authorised to develop to the unusually high density of 256 persons per acre. At the same time, zoning restrictions limited the building to a maximum of 60 ft. in height. To avoid congestion on the ground, these conditions suggested a layout

approximately following the perimeter of the site the open space to be provided mainly within the development rather than around it. The height limitation, the large number of dwellings to be provided in a limited area and the need for strict economy to off-set high land values, forced the architect to adopt balcony access planning for the



Site plan





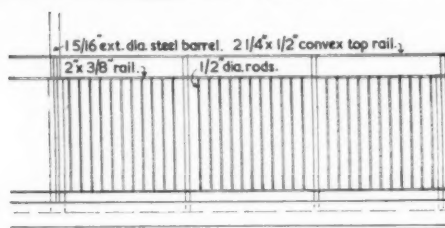
principal blocks. The accommodation is provided in five main blocks of six storeys and in four subsidiary blocks of four storeys with additional pent-house flats on the roof deck. The latter blocks contain larger family flats with internal staircase approach, whereas the six-storey blocks have passenger lifts and balcony access. All living rooms and principal bedrooms have either a south-east or south-west aspect and all flats have their own private balcony. The one-room flats have a living room with sleeping bay for two beds and a separate kitchen and bath-room.

CONSTRUCTION.—This is of reinforced concrete frame with cavity brick panel walls, reinforced concrete floors and roof slabs with cantilevered balconies. Partition walls are of 2-in. hollow tiles. The boiler house chimney is of reinforced concrete construction, cast from special shuttering, and stands as an independent structure adjacent to, but free from the building. No special sound insulation has been used, but the flats are said to be satisfactory in this respect and tests are to be made soon by the National Physical Laboratory.

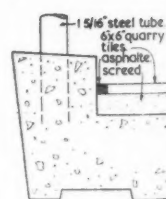
Left, block F looking north-east, showing private balconies.

FLATS

in WILTSHIRE CLOSE, CHELSEA, S.W.3
designed by EDWARD ARMSTRONG
assistant architect E. HOWARD SADLER

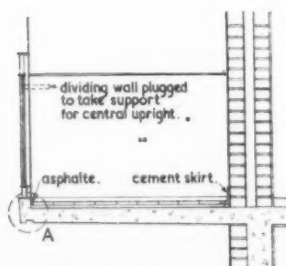


Balcony elevation

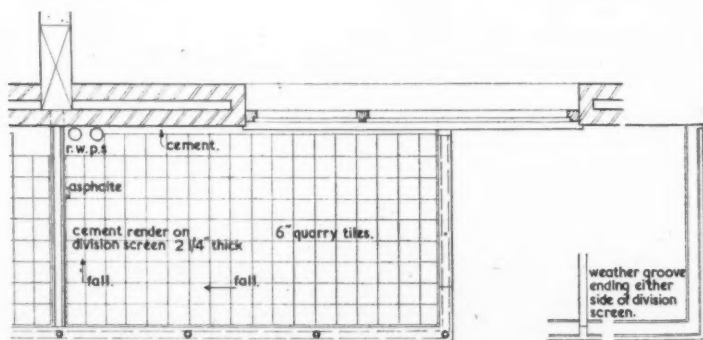


Detail at A

[Scale: 1/4" = 1'0"]

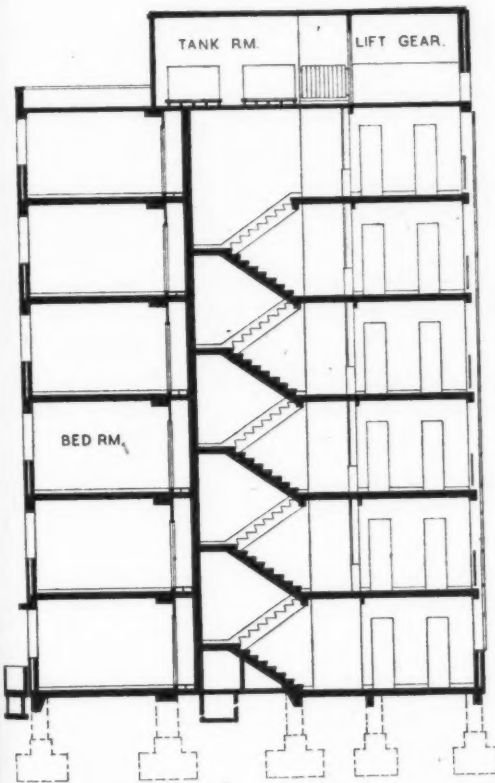


Cross Section

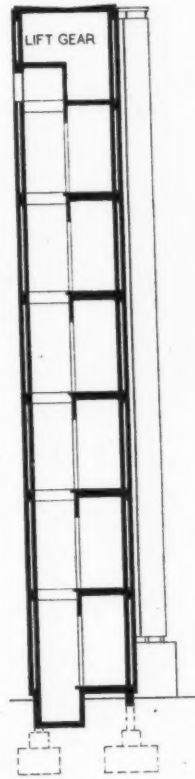


Plan of private balcony, block F [Scale: 1/4" = 1'0"]

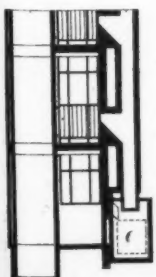
Plans of typical 1-, 3- and 4-room flats in block F
[Scale : $\frac{1}{8}" = 1'0"$]



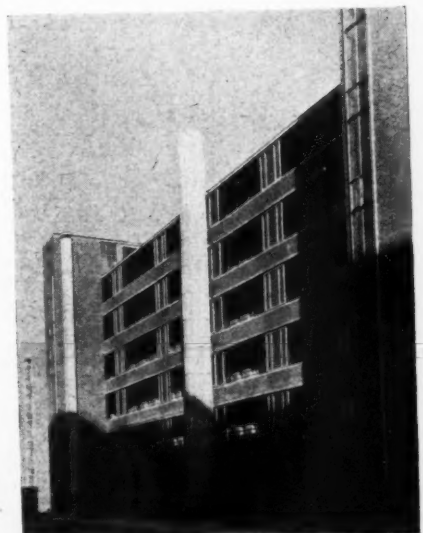
Sections A-A and B-B



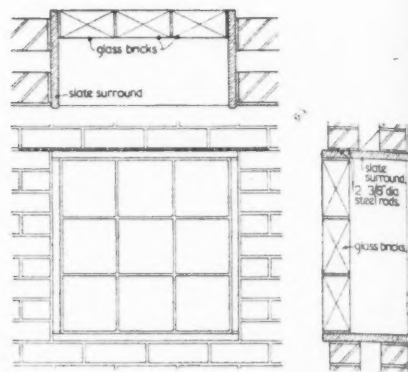
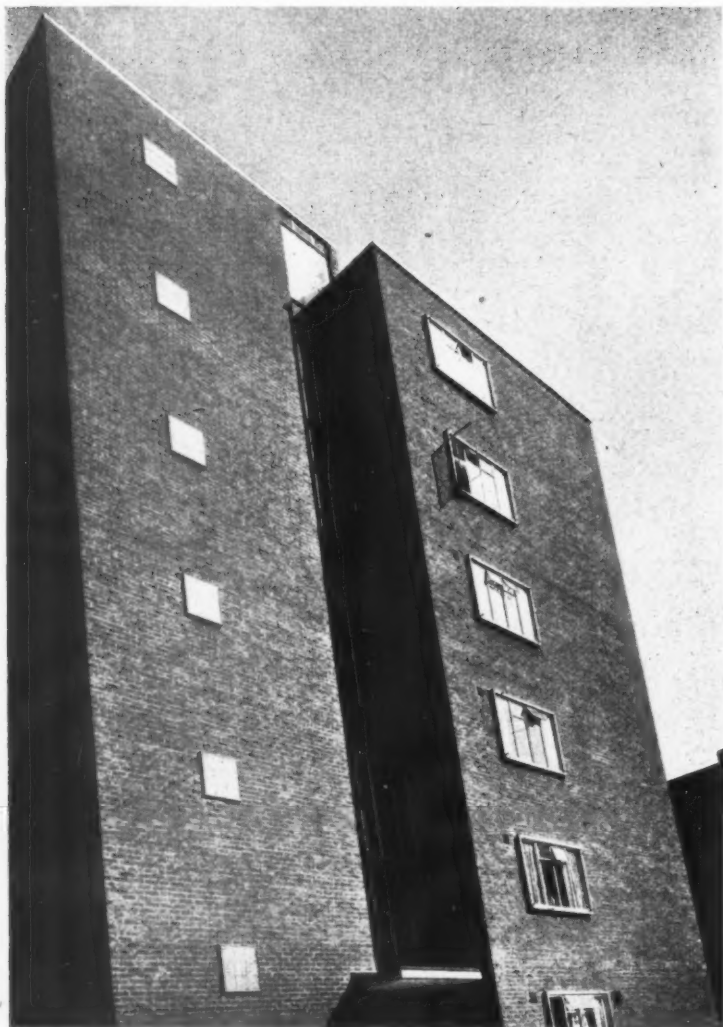
[Scale : $\frac{1}{8}" = 1'0"$]



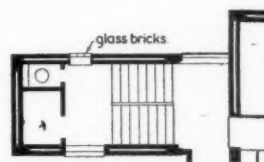
Section C-C through rubbish shoot



Above right, the façades of block E1, west and south looking east. Right, the north-west façade of block F.



Plan, elevation and section of glass brick detail.
[Scale: $\frac{1}{4}'' = 1'0''$]



Key plan [Scale: $\frac{1}{8}'' = 1'0''$]

FINISHES.—The windows, which are standard steel casements in wood surrounds, and the balcony railings, are painted ivory colour. Entrance doors to flats are maroon in ivory frames and doors to pram sheds are deep blue. The floors of all living rooms and bedrooms are of polished wood blocks and kitchens and bathrooms are of a buff-coloured cement-plastic composition. The walls of habitable rooms are distempered in light shades and kitchen and bathrooms have tiled dadoes above which is enamel

FLATS

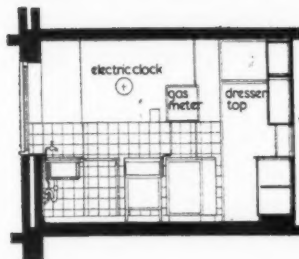
in WILTSHIRE CLOSE, CHELSEA, S.W.3
designed by EDWARD ARMSTRONG
assistant architect E. HOWARD SADLER



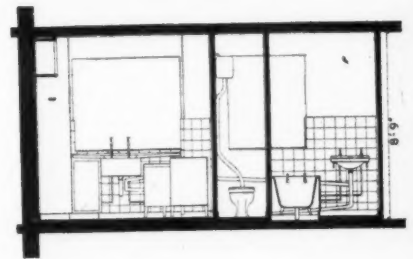
Above, the western end of block D1 showing glass brick panels. Right, blocks D1 and D2 with block F in the background, looking north.



Above, blocks A1 and A2 with the end walls of blocks C1 and C2 set back, looking north.



Section B-B

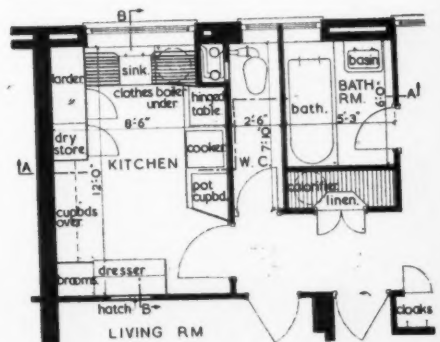


Section A-A

Plan of typical 5-room flat in blocks A1 and A2 [Scale: $\frac{1}{8}$ " = 1'0"]



Plan of 4-room flat, kitchen and bathroom [Scale: $\frac{1}{8}$ " = 1'0"]





Left, blocks B2 and B1 looking north-west, with the end wall of D2 on the left.

paint. Kitchens have built-in fittings, larder, dry store, dresser, serving hatch and space for a refrigerator. Cloak and broom cupboards are provided and all bedrooms have built-in wardrobes.

SERVICES.—Central heating and constant hot water is provided for all flats, living rooms and principal bedrooms have built-in gas fires and electric points are also provided for tenant's equipment. All flats have temporary washing facilities until the proposed estate laundry is built on an adjoining site. They also have gas clothes drying cabinets.

The work was carried out under two separate contracts with a total building value of £376,896. The first contract was for the erection of foundations, reinforced concrete frame and the boiler house, and the second contract included cladding and finishings complete. The average cost per room was £484 and per flat, £1,675, both excluding abnormal foundations. The cost per foot cube was 3s. 4½d.

FLATS

in WILTSHIRE CLOSE, CHELSEA, S.W.3
designed by EDWARD ARMSTRONG
assistant architect E. HOWARD SADLER

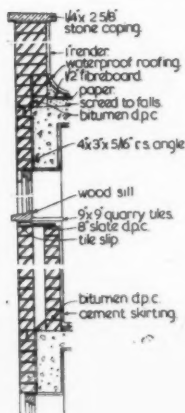
Plan of 5-room flat blocks B1 and B2

[Scale: 1/4" = 1'0"]

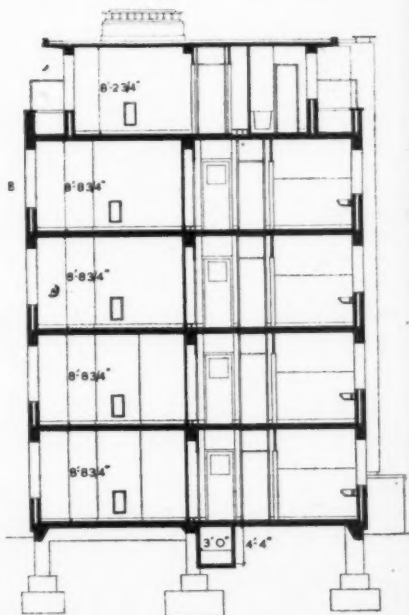


Detail section at B

[Scale: 1/2" = 1'0"]



Section A-A [Scale: 1/8" = 1'0"]



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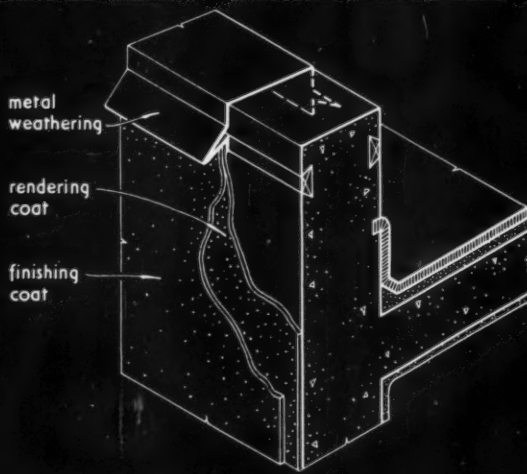
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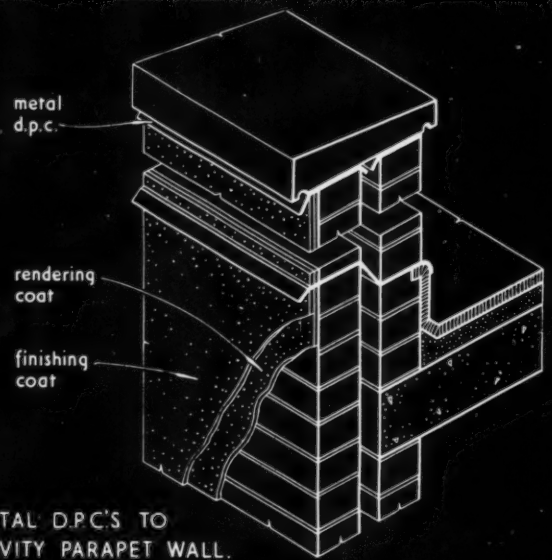
LIME MORTAR | EXTERNAL RENDERING

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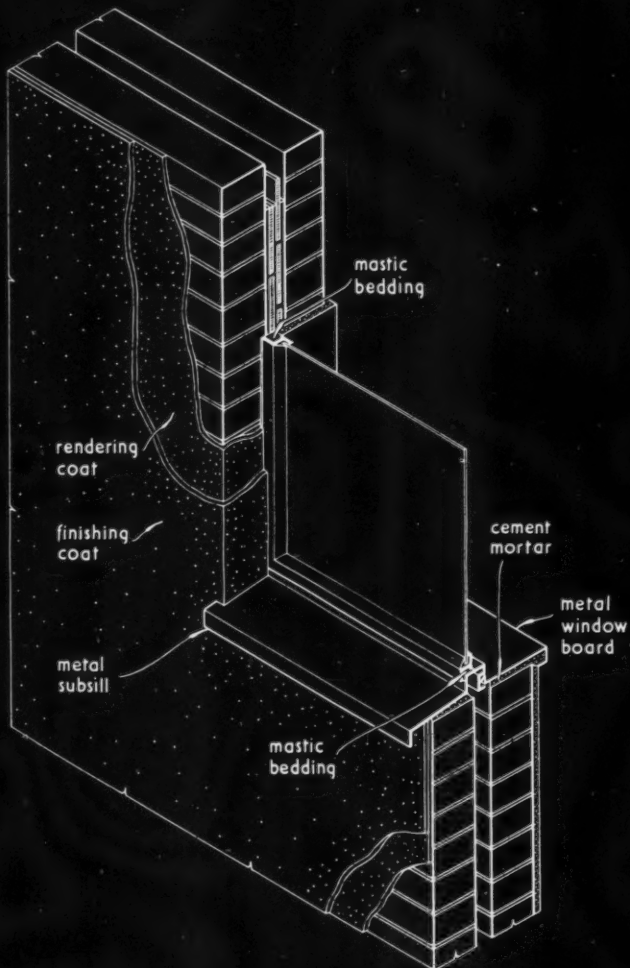
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7.C2



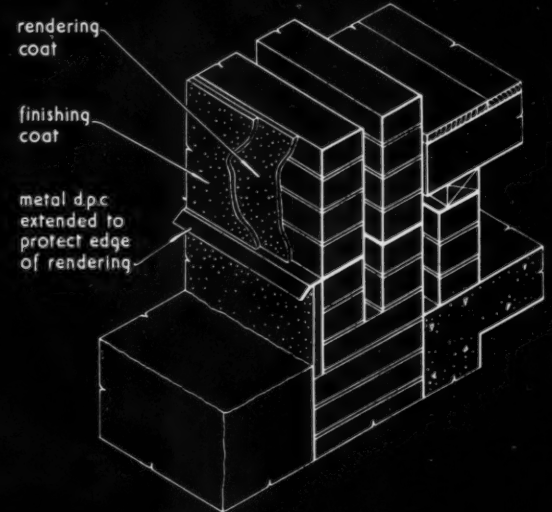
METAL WEATHERING TO
R.C. PARAPET WALL.



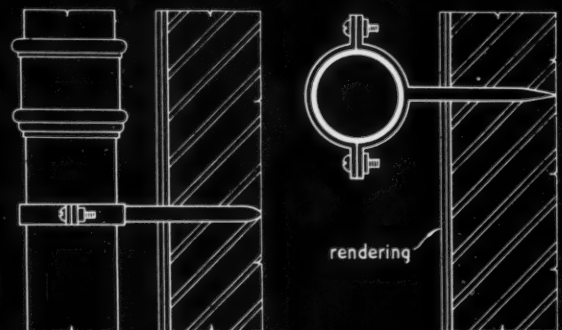
METAL D.P.C.'S TO
CAVITY PARAPET WALL.



DETAIL AT WINDOW.



PROTECTION OF LOWER EDGE OF RENDERING.



SPIKE FIXING FOR RAINWATER PIPE.

7.C2 STONITE WALL FINISHING MATERIALS : APPLICATIONS

This Sheet, one of a group describing Stonite wall finishing materials, illustrates details of weatherings, drips, etc., for external walls rendered with Stonite ; it also gives brief specification notes.*

Specification Notes

Gauging : (a) Undercoat and finishing coat—Nothing but clean water shall be added to the material. The contents of not less than three bags shall be thoroughly mixed dry. (If a smaller amount only is needed to finish the work not less than one bag shall be mixed). Gauging can be by hand or machine, the quantity of water being such as will form a workable but relatively stiff mortar. The same amount of water should be added in each mix. No more shall be mixed than can be used in three hours and each gauging should, where possible, be allowed to stand for one hour before use. A thoroughly clean concrete mixer is to be used. A clean banker can be used where a mixer is not available but care must be taken to see that gauging water does not run off carrying with it the finer particles of the mix. On no account must a roller pan mortar mill be used.

(b) Colorcast—The contents of a whole bag of Stonite Colorcast should be tipped on to a clean banker or a clean concrete slab and thoroughly mixed in a dry state. A metal container is to be one-third filled with water and the Colorcast is to be added and the mix constantly stirred until a creamy consistency is obtained. The hand-operated spatter machine is to be filled by the use of a clean dipper. Before each filling of the spatter machine the mix is to be stirred and care taken to see that the heavier particles are evenly distributed throughout the mix.

Preparation of surfaces : Before the render coat is applied all surfaces must be clean, free from loose or soft particles and thoroughly damped down with clean water. All paint and moss or lichen growth on old work must be removed.

Wetting surfaces : All surfaces are to be damped down, shortly before rendering starts.

Slurry coat : All surfaces so indicated are considered unlikely to provide an adequate key or will give rise to variations in suction and are to receive, after brushing down to remove loose organic particles, a slurry coat consisting of one part clean sharp sand and one part cement, gauged with water to a thick creamy consistency and thrown forcibly on the wall. The slurry coat is to be allowed to dry before rendering is started.

Rendering : The areas indicated are to receive a render coat of Stonite ready-mixed undercoat mortar of a uniform thickness of $\frac{3}{8}$ in. Any areas requiring an additional thickness are to be dubbed out separately and allowed to set before the main render coat is applied.

Large cavities on old work are to be filled by bedding in pieces of brick or similar material and dubbing out is to be carried out as above.

The surfaces indicated and so described in the drawings will be exposed to especially severe weather conditions and are to receive a render coat of Stonite Anti-Aqua water repellent undercoat mortar of a uniform thickness of $\frac{3}{8}$ in.

The render coat is to be applied with good pressure in as stiff a consistency as is practicable and is to be finished off with a screed rod or, if necessary, a wood float to give a rough and even key. Heavy scratching and scoring is not required.

Finishing coats : (a) Scraped textured finishes.—The areas indicated are to be finished with Stonite finishing coat No. . . in a (coarse, medium or fine) texture applied at a minimum thickness of ($\frac{3}{8}$ in., $\frac{1}{2}$ in., $\frac{3}{4}$ in.).

The finishing coat is to be applied with a wooden float and trowelled. Over-trowelling is to be avoided.

In the case of those areas rendered with Anti-Aqua water repellent undercoat the finishing coat is to be applied as soon as the undercoat is sufficiently firm to receive it.

If the Stonite ready mixed undercoat mortar has dried "white hard" it must be well damped down before the finishing coat is applied.

The finishing coat is not to be applied in conditions where too rapid drying out is likely. In hot sunny conditions the work

is to be carried out on shaded walls as far as possible. The finishing coat is to be protected in the event of heavy driving rain.

Scraping—As soon as the finishing coat is sufficiently hard to resist indentation by pressure from the finger nail the surface is to be scraped with a granulator scraping tool to provide a texture matching the approved sample area. Reveals, corners and other small areas are to be scraped with a saw blade.

(b) Colorcast spatter finish—The surfaces so indicated are to be finished with Stonite Colorcast applied by a hand-operated spatter machine. In the case of areas rendered with Anti-Aqua water repellent undercoat the first coat is to be applied before the undercoat has completely dried out.

The Colorcast is to be applied in three to four successive coats. The second and subsequent coats are to be applied as soon as the previous coat is sufficiently dry to allow the build-up of the next coat.

The first coat may be applied as a brushed-on slurry to increase coverage.

(c) One coat work—The surfaces of the no fines concrete are to be rendered with Stonite one coat rendering No. . . applied $\frac{1}{2}$ in. thick, in as stiff a condition as is consistent with workability, with good pressure and finished off with a wooden float. Over-trowelling should be avoided. The surface is to be scraped as described above.

Moulds : All moulds indicated on the drawings are to be run in Stonite moulding material. The surface of the moulds is to be scraped with a saw blade as described above.

Masonry : Stonite ready mixed building mortar is to be used for the bedding of all brickwork, facing brickwork and stonework.

Pointing and re-pointing : Pointing is to be done in Stonite pointing mortar. The joints of all work required to be re-pointed are to be well raked out, loose particles removed and the surface well wetted with clean water.

Frost : No work is to be done during frosty weather or when frost is expected on the following night.

Setting out : All work is to be arranged, as far as possible so that the leave joints between one day's work and the next shall be masked by architectural features such as windows, string courses, down pipes, etc.

Sample areas : Before the finishing coats are commenced the contractor is to provide a sample area of each type of finish of not less than two square yards for approval.

Stonite Products

Undercoat : Suitable for use with all Stonite finishing coats.

Undercoat, Anti-Aqua : As before but only necessary if special weather resisting qualities are required.

Stonite Colorcast : A bag-mixed material for use in hand spraying or spattering machines.

Stonite scraped finish : A material giving texture and colour of real stone.

Stonite one-coat finish : This is only for use as a finish on no fines concrete.

Stonite pointing mortar : Various colours are made.

Stonite moulding material : Various colours to match Stonite scraped finishing or Colorcast material.

Stonite bedding mortar : For the bedding of all brickwork, facing brickwork and stonework.

Compiled from information supplied by :

Callow and Keppich, Ltd.

Address : Shipham Gorge, Cheddar, Somerset.

Telephone : Cheddar 214.

Telegrams : Cheddar 214.

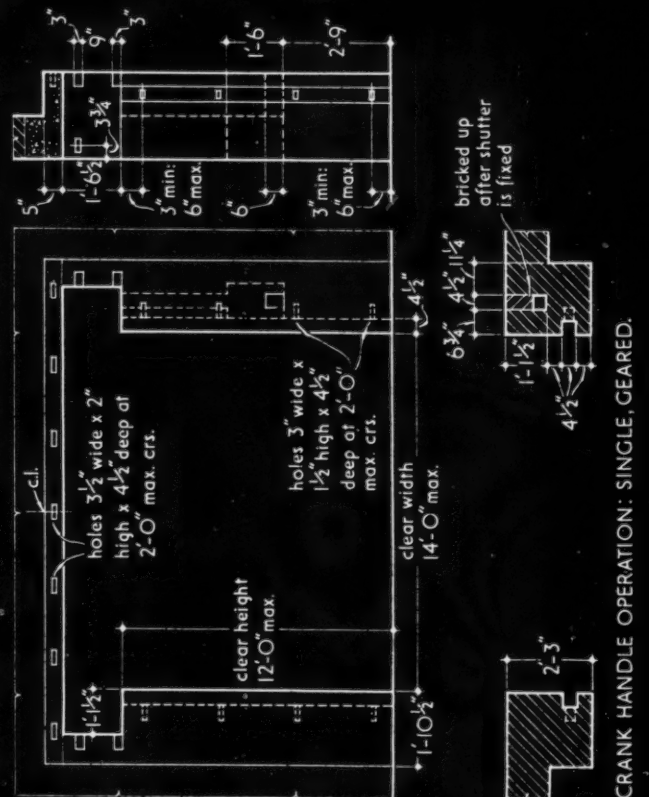
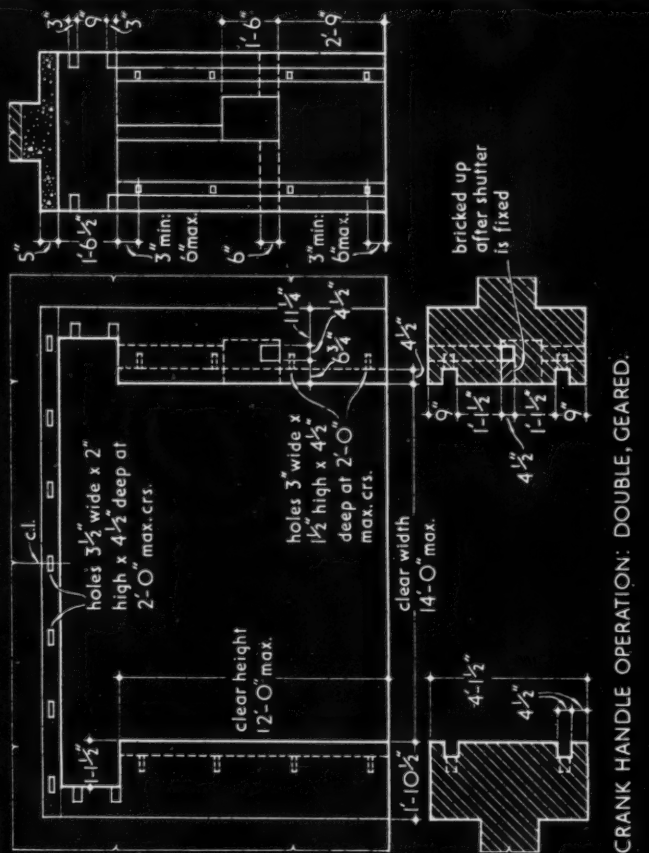
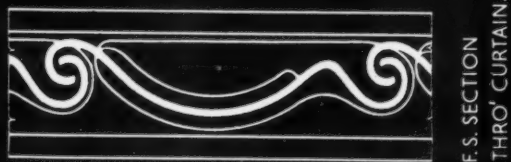
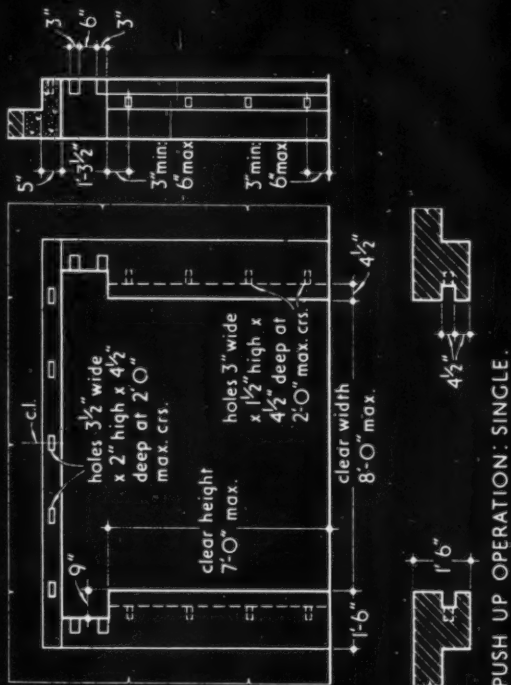
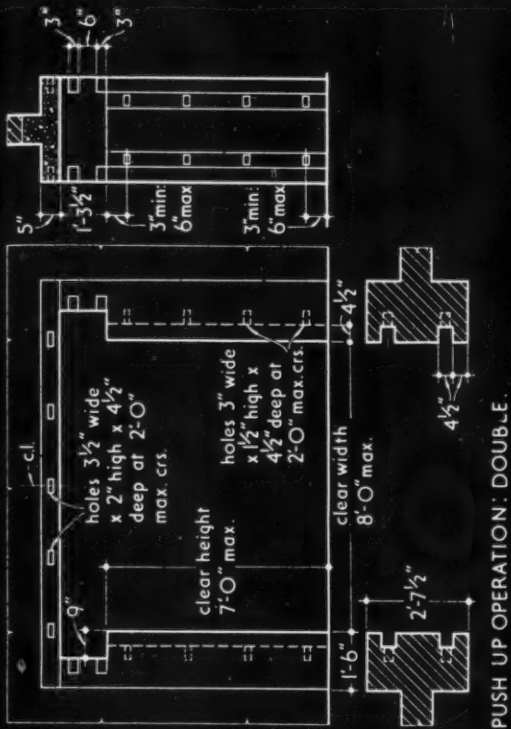


FIRE PROTECTION ROLLING SHUTTERS

The Architects' Journal Library of Information Sheets 274. Editor: Cotterell Butler, A.R.I.B.A.

36.D7

70'93



Manufacturer: Haskins (E. Pollard and Co Ltd)

FIROLA FIRE-RESISTING ROLLING SHUTTERS

CRANK HANDLE OPERATION: SINGLE, GEARED.

CRANK HANDLE OPERATION: DOUBLE, GEARED.

36.D2 ·FIROLA· FIRE-RESISTING ROLLING SHUTTERS

This Sheet describes a type of fire-resisting rolling shutter which takes the form of an efficient, fire-resisting, steel curtain. The shutters are fitted singly or in double sets, and can be operated by hand or mechanically. A double set comprises one shutter each side of the opening. The drawings on the face of this Sheet give details of the openings to accommodate the shutters.

Operation

The shutters are operated normally by manual (push-up) means or mechanical winding gear and are fitted with automatic release apparatus operated by a patent fusible link, functioning in the event of fire at a heat of 155 degrees Fahrenheit. This apparatus, after coming into operation, lowers the shutters slowly, after which they can be operated normally. The Fire Office's Committee only do not normally require fusible link release.

Fire Regulations

The design of the shutters conforms to London County Council, London Fire Brigade and Fire Office's Committee regulations and the Ministry of Transport for installation on ships as fire-resisting bulkheads. The single and double shutters have been recently tested and found satisfactory by all the above authorities. (1950 test.)

Synopsis of L.C.C. Regulations

The following is a synopsis of the L.C.C. regulations for the installation of steel rolling shutters. Full regulations are contained in leaflet No. 3549 issued by the L.C.C. and can be taken as applicable for all F.O.C. and Ministry of Transport requirements. Dimensions shown on drawings are to be exclusive of any jamb lining. The construction of floor, projecting jambs, brickwork generally and reinforced concrete lintel shall be in accordance with the following: Where openings are to be used for transporting goods by means of trucking, adequate protection to the outside edges of all jambs

to be provided to prevent damage. The standard of stability and the protection of structural steel work from the action of fire, also all reinforced concrete, shall be carried out to the satisfaction of the District Surveyor, and shall not be inferior to the standard required for compliance with the London Building Acts, and the by-laws made thereunder.

The openings in party and division walls shall be constructed in conformity with the provision of Section 21 of the London Building Acts (Amendment) Act, 1939; any constructional work to the building, including projecting jambs and chases in party or division walls, shall comply with the by-laws made under the London Building Acts (Amendment) Act, 1935, to the satisfaction of the District Surveyor.

The floor of openings shall be constructed of brick, stone, iron or other solid incombustible materials having a combined thickness of at least 5 inches devoid of cavity, such floor to extend to the line of the projecting jambs and also to extend under the shutter guides.

The head to be not less than 5 inches in thickness, constructed throughout of solid concrete reinforced with metal and extending the full width of the opening and the full width and projection of the jambs. The head where not forming an integral part of the lintel to the opening shall be supported for the whole of its length to the satisfaction of the District Surveyor.

In preparing the openings all work of cutting away, bonding, making good, etc., shall be carried out to the satisfaction of the District Surveyor, together with any additional works he may require for the purpose of ensuring adequate support and satisfactory stability.

No wood or other combustible material shall be used in the construction of the floor or threshold of any opening.

Any doors provided in addition to the shutters shall be so arranged that they cannot interfere with the normal operation of the shutters whether open or closed and in no case shall doors be provided between double shutters to openings unless previously approved by the Council.

Compiled from information supplied by:
Haskins (E. Pollard and Co. Ltd.).

Address: Gnome House, Blackhorse Lane,
Walthamstow, London, E.17.

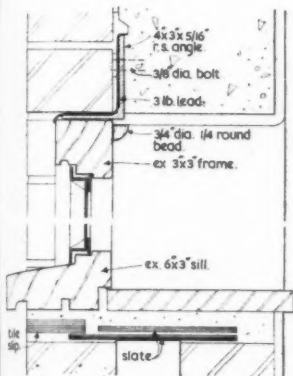
Telephone: Larkwood 2622 (6 lines).

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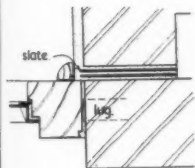
and per foot super 36s. 7d., with central heating and hot water costing £70 per flat. The complete scheme was carried out six months ahead of the allowed contract period.

Graham Dawbarn collaborated in the early stages of the planning.

The general contractors were Holloway Brothers (London), Ltd. For list of sub-contractors, see page 592.

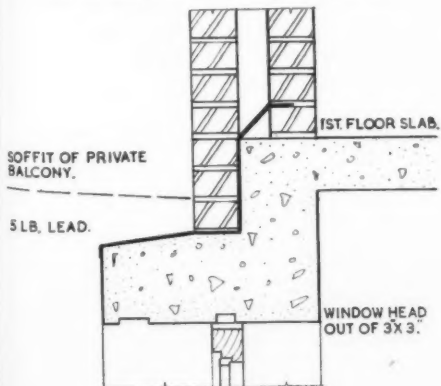


Section of typical window
[Scale: 1 1/2" = 1'0"]

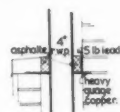


Plan of jamb

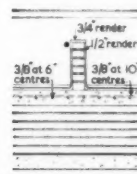
Projecting hood to block F
on elevation to court [Scale: 3/4" = 1'0"]



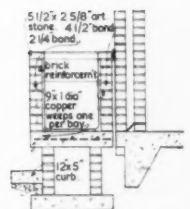
Blocks E1, F and E2 looking south-west.



Section A-A

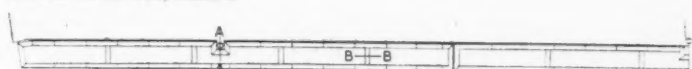


Section B-B
[Scale: 1" = 1'0"]



Typical cross section
[Scale: 1/2" = 1'0"]

Plan of flower box, block F



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*A digest of current information
prepared by independent specialists;
printed so that readers may cut out
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16.63 materials: miscellaneous LIME IN BUILDING

Limes for Mortar (Ministry of Works Advisory Leaflet No. 6. (HMSO, 1950, 2d.)

Useful brief summary of properties and preparation of various types of lime for mortar with some references to rendering. Valuable for quick reference, includes table of mortar mixes for varying situations and table showing properties, etc., of different types of lime.

18.48 construction: theory REINFORCED CONCRETE

Calculation, Design and Testing of Reinforced Concrete. K. L. Rao. (Pitman, 1st Edition, 1949, 40s.)

Elaborate treatise on principles, experiments and design, for civil engineering students. Of limited value to architects. 388 pp., 220 figures.

This book originated in the author's lectures and is meant to help students preparing for their B.Sc. and other examinations. The general theory of reinforced concrete (150 pages) is followed by chapters on the testing of materials of beams and structures and some useful notes on model analysis. Another 150 pages or so are given to the designing of structures, including various types of building floors and staircases, columns and foundations, and details of construction. Worked examples are included and each chapter is followed by exercises mostly taken from University and Institution examination

papers. The book is not meant for architects and goes well beyond their needs. In any case, its price is out of proportion to its value.

18.49 construction: theory EXPERIMENTAL BUILDING SCIENCE

Experimental Building Science, Vol. 2, Part 1: Mechanics of Structures. J. L. Manson and F. E. Drury. (Cambridge University Press, 2nd Edition, 1950, 12s. 6d.)

A sound and thorough textbook largely based on experimental study. Of considerable value to students. 286 pp.

This volume represents the second edition (1950) of Part I of the original volume 2 which was published in 1929. It deals with the conditions of equilibrium as applied to buildings, with loaded beams and the elastic bending theory, and includes chapters on shear stresses and strains, deflection of beams, fixed and continuous beams. It is a very good textbook for architect students, giving them the basic and the applied theory in clear language with simple diagrams, supported by structural experiments and numerical examples. In many of the static problems the experimental approach will strongly appeal to the student. The

worked examples refer to buildings and erection equipment and to other applications in which the student will be interested. The practising architect however will regret that some of the tabulated figures, e.g., those for floor loads and wind loads and for working stresses in structural steel have become out-of-date since the publication of BS 449, etc. This, however, is an unavoidable occurrence and should not detract from the excellent value of this book.

18.50 construction: theory HANDBOOK WELDED STEELWORK

Handbook for Welded Structural Steelwork. (The Institute of Welding, S.W.I. 4th Edition. Reprinted Oct., 1949, 10s.)

Very useful tables of properties of single and compound sections as used in welded construction. Worked examples. Photographs of welded buildings and bridges of interest to the architect. 234 pp.

Much of the information in this handbook has been specially compiled for the designer of welded structures. Latest additions include tables on those structural types which offer particular advantage in welded construction, e.g., plate girders, continuous beams and rigid portal frames. Typical details of welded roof trusses, column splices and rigid frames are shown, but only the LCC welding regulations of 1937 are given. The inclusion of the latest BS 449:1948, with amendment of July, 1949, giving much higher permissible stresses in welds, would have helped to bring this handbook up-to-date. Sketches of typical welded components and a collection of photographs of modern steelwork for buildings and bridges will interest the architect.



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Current contracts include a very considerable yardage of BISON Precast for the York Road Entrance and Restaurant, the Dome of Discovery, and for Pavilions such as The Origins of the People, The Origins of the Land and the Pavilion of Agriculture.

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18.51 construction: theory BRICKWORK DEFECTS

Some Common Defects in Brickwork. National Building Studies No. 9. D. G. R. Bonnell and W. R. Pippard. (HMSO, 1950. 1s. 3d.)

Brief description of common defects in brickwork, their recognition, causes and remedies. Excellent photographs.

This Bulletin describes very clearly the common defects in brick, how they arise, how to recognize them and how to avoid them. Examples are very clearly illustrated by photographs. It forms a most useful reminder that even well tried traditional materials must be properly selected and used if troubles are to be avoided. The defects dealt with are:—

- (1) Sulphate attack on mortar and rendering.
- (2) The use of unsound materials.
- (3) Frost action.
- (4) The corrosion of embedded iron and steel.
- (5) The crystallization of salts.
- (6) Linear changes resulting from changes in moisture content.

In almost all cases dampness is the immediate cause of the defect. It follows that good constructional design is usually the best safeguard against trouble.

20.178 construction: complete structures BARREL VAULT ROOFING

New Factory. Great Dunmow, Essex. Architect: Basil I. Briggs. (Architectural Design, March, 1950, pp. 77-78.)

Thin shell concrete roofing. Interesting design.

Barrel vault roofs continuous over seven bays are included in this factory building of nearly 30,000 sq. ft. area. The outer spans are 35 ft. each, the five centre bays 24 ft. An uninterrupted floor space of 120 ft. by 40 ft. had to be provided as a showroom for machinery. This was achieved by using 40 ft. long valley beams between columns. Roof panels of $\frac{1}{4}$ in. wired glass provide all the required top light, piercing the elliptical barrel vaults of $2\frac{1}{2}$ in. maximum thickness. As a matter of architectural interest, it was possible to arrange the offices right inside the floor area because of the excellent lighting obtained from the roof. This should be of great advantage from the point of view of management and supervision of individual workshops.

23.125 heating WATER FOR SWIMMING POOLS

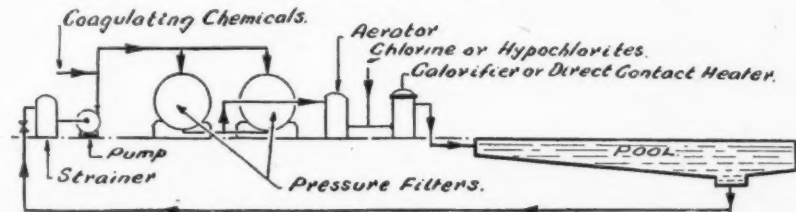
Frank H. Slade. (Plumber and Journal of Heating, Dec. 1949. 1s.)

Requirements for heating, filtration and sterilization of water for swimming pools.

Although Mr. Slade's articles in "The Plumber" are primarily intended for plumbers and Heating Engineers, they are frequently of much interest to architects. This one is no exception.

Swimming pools call in some cases for heating: in all, for purification. Formerly, frequent water changes were used in place of the latter; this was costly in water and heat, and haphazard in results.

For indoor pools, temperatures must be kept between 70° and 74°F. As the heaters are usually included in the filtration circuit, they should be proportioned to replace the whole heat loss from the pool in three to four hours. Usual heating methods are calorifiers—normally proportioned to heat the whole of the water 15°F. per hour—or direct steam heating. A mixing valve can be used to deal with varying heat requirements.



Typical filtration and sterilization plant for a swimming pool. See 23.125.

The air temperature of the bath house should be within the limits 8° above and 2° below bath temperature: 5° above is very satisfactory.

Many bacteria are deposited in the water by bathers. Generally, dilution is so high that they are too few in number to cause disease; but occasionally infection, from an unusually infective person, may occur. This must be guarded against, by freeing the water from impurities by filtration, and sterilizing against germs by chlorination or ozone; aeration is needed to produce an attractive colour and sparkle in the water.

Normally, water is drawn by centrifugal pumps from the deep end through a strainer to remove coarse matter, passed through the purification plant, and returned to the shallow end of the pool, at the rate of 3 to 4 hours per change for indoor and 6 to 12 hours for outdoor pools; the actual rate depending on capacity and usage. Some engineers favour circulation in the reversed direction, as the shallow end is more used. In any case, sufficient inlets and outlets must be provided to prevent stagnation at any part.

The sequence of purification is shown in Fig. 1. It is as follows:—

The water is strained, then a chemical coagulant is added to assist purification in pressure filters. The coagulant may be injected in accurate doses, to suit the number of bathers by an injection pump driven by the circulating pump motor, and having a variable stroke for regulation. The materials usually used are aluminium sulphate and soda. These are usually stored, in slate tanks with dissolving compartments, in quantities sufficient for 12 hours' use. Next the water passes through the filter, which may be vertical or horizontal pressure or rapid gravity type, the former being most used for small installations. The latter can conveniently be built of concrete, and is therefore particularly suited to sea-water pools. The filtering medium consists of sand on a layer of pebbles, with suitable means of even distribution and collection. Cleaning is by compressed air agitation, and a reversed flow of water. Aeration is carried out by compressed air, passed through the water contrary to the flow.

The water is now sterilized. This may be carried out by mixing a regulated quantity of chlorine or hypochlorites with the water, or by treatment with ozone, which may be formed by electrolysis, by the electrostatic method, or by the use of ultra-violet light. Tests of the latter have shown that in clean water, using a mercury vapour lamp as the light source, *B. coli* were killed in 15 to 20 seconds, *B. typhosus* in 10 to 20 seconds, and the *Cholera vibrio* in 10 to 15 seconds.

Finally, fountains may be used to rid the water of any excess of ozone as well as for the sake of appearance.

25.75 water supply and sanitation ENGINEERING AND UTILITY SERVICES

Engineering and Utility Services. BS C of P CP 3-Chapter VII (1950). (British Standards Institution. 4s.)

An exasperating combination of statement of the obvious with a certain amount of useful tabulated material for requirements

in respect of sanitary equipment for buildings of various types. The tabulated information is useful for reference by the architect and the code is also a guide to the relevant general series codes where they exist.

26.63 services and equipment: miscellaneous FIRE HYDRANTS

Underground Fire Hydrants and Dimensions of Surface Box Openings. BS 750:1950. (British Standards Institution. 2s.)

Revision of earlier specification. Essential information for all cases where such hydrants are required.

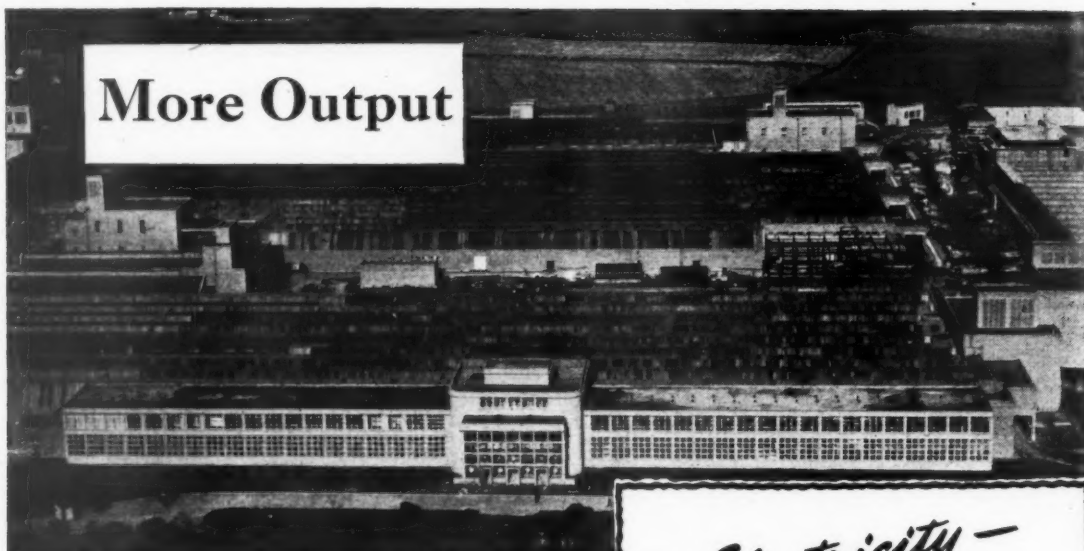
This feature answers any question connected with building confidentially and free of charge. Questions to the Technical Editor, The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1.

QUESTIONS AND ANSWERS

3021 HEIGHT OF D.P.C. ABOVE GROUND LEVEL

Q Can you tell me why the position of the damp proof course in the wall of a house is usually stated in text books to be at a minimum of 6 in. above ground level? I want to bring a concrete paving round the house up to the external wall, but in doing so I would reduce the height of the damp proof course to 3 in. above the new paving. The ground floor is a normal boarded floor on timber joists with wooden wall plates in the inner leaf of the 11 in. external wall cavity.

A The minimum height of 6 in. for the damp proof course above ground level immediately outside the house is, on the whole, a very sound rule, and it would be better practice to err on the side of increasing this dimension wherever timber ground floors exist. The reasons for it are simple. Firstly, there is normally a considerable amount of splashing in very wet weather which will saturate the brickwork for an appreciable height above the ground level. From every point of view it is better to keep the damp course above the level at which splashing will make the wall wet. The other essential is that the ventilators which admit air to the space below the floor should be well above the height at which accident or carelessness would enable earth or other articles to be stacked against the wall and so block the ventilators. Dry rot fungus attack can rot the floors very quickly when the ventilation is impaired, and there are many classic examples where the economy in a few courses of brickwork below damp proof course has resulted in very serious dry rot outbreaks in floors.



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This feature covers both the production and marketing of new materials and designs of equipment, as well as the general trend of developments within the Building Industry.

THE INDUSTRY

By Brian Grant

CLOCKS ON SHOW

English Clock Systems Ltd., the industrial branch of Smiths English Clocks, have just opened a new showroom in Great Portland Street where they have a large display of time keeping equipment. Industrial users nowadays demand comparatively elaborate systems over and above the usual master clock controlling a number of slave dials, including time recording systems, bell and other audible signals. There is also a large display of double and single-sided outdoor clocks. Dials for installation in turrets are also shown, as well as a gravity escapement timepiece with automatically operated winding and striking gear. The exhibit also contains two types of time recorder and a large range of the minute and seconds timers which are now used in factories for the accurate timing of various industrial processes.—(English Clock Systems, Ltd., 179-185, Great Portland Street, London, W.1.)

CONTROLS FOR ELECTRIC COOKERS

Sanders of Wednesbury have just produced a cooker control unit which is being marketed under the name of Sandeena. Intended mainly for domestic use, it has a 30 amp. double pole main switch for the cooker, and a 13 amp. (3 kw.) switched socket for kettles and other kitchen equipment; this latter is for the standard fused plug with rectangular pins and is essentially to BS 1363; except that the cover is circular. The case and lid are in pressure die cast aluminium and there is plenty of room inside the box for wiring. Price is 14s. plus 110 per cent., subject to discounts. According to my arithmetic this works out at (E & OE) to 29s. 5d. Is there any real reason why the all too common habit of giving prices in this way should not be given up?—(William Sanders & Co. (Wednesbury) Ltd., Falcon Electrical Works, Wednesbury, Staff.)

LOCKS AND HARDWARE

Having occasion recently to make enquiries about fencing I went to Messrs. A. J. Binns, whose black on yellow name plates on fenced in squares and bombed sites appear, in London at any rate, with almost irritating frequency. Here I discovered, among other things, that the full pre-war range of Dryad door handles, drawer pulls and knobs and similar fittings is once more available. They are, as most readers will remember, admirably simple designs of a type which has not been too easy to obtain the last few years. At the same time I found a new lock, called the Merlin, made by the Franklin Lock Company, of 50, Pall Mall. This has the simplicity of the ordinary night latch with sundry additions which apparently make it acceptable to the insurance companies, who often demand a mortice lock. The Merlin lock has a dead locking button which can only be released by inserting the key on the inside of the door (see illustration) so



The showroom of English Clock Systems, Ltd.

that if anyone should break a panel in the door the lock still cannot be opened. At the same time the door can be opened from the outside in the ordinary way with its own key. As the part section shows, the body of the lock is flanged and fits in grooves in the staple sleeve, which is spring loaded so that the lock will not bind if the door should drop or shrink. The staple box is fixed with a long spike as well as the usual screws. It would seem that quite a lot of thought has gone into this design and it is difficult to see how it can be circumvented without either sawing out the lock or ripping off the door frame.—(A. H. Binns Ltd., 99, St. Paul's Road, London, N.1.)

PUBLICATIONS ON CONCRETE

Two recent publications by the Cement and Concrete Association are well worth reading. The first deals with concrete block external walls and partitions, gives full details of the standard sizes produced, and illustrates a number of housing estates where they have been used, some of them thirty years old and weathering well.

The second deals with the problems of concreting in cold weather, and although the decision whether to continue concreting or not is more a matter for the contractor than for the architect, there are two very useful tables which summarize some of the essential points and are useful for reference.

The following table lists the precautions to be taken in varying degrees of cold:—

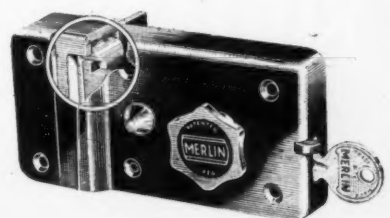
Always take these precautions at low temperatures.	Add these when there is frost at night.	Add these also if there is severe frost day and night.
Extend the period of curing or Insulate the concrete after placing to prevent loss of heat or Accelerate hardening by— (i) Using an extra rapid-hardening cement, or an accelerator, or (ii) The application of heat and provision of insulation	Ensure that the aggregate is not frozen Ensure that the ground or moulds are not frozen Heat the water	Heat the water and aggregate. Keep the concrete heated and protected after placing.

The other table, shown below, gives the recommended minimum times for stripping formwork in normal and in cold weather. (The latter are BRS suggestions.)

	Ordinary Portland Cement.		Rapid-hardening Cement.	
	Normal weather (about 60° F.).	Cold weather (about 35° F.).	Normal weather (about 60° F.).	Cold weather (about 35° F.).
	Days.	Days.	Days.	Days.
Beam sides walls, columns.	1	6	1	5
Slabs (props left under).	3	10	2	7
Beam soffits (props left under).	7	12	4	10
Removal of props to slabs.	7	14	4	14
Removal of props to beams.	16	28	8	21

If the concrete is heated and insulated, the above curing periods can be reduced.

The various methods of heating mixing water and aggregates are again the contractors worry, but the pamphlet is a bare 10 pages and is well worth keeping for reference.—(The Cement & Concrete Association, 52, Grosvenor Gardens, London, S.W.1.)



General view of Merlin lock in closed position. The cut away section shows the deep interlocking grooves engaged.

Announcement

J. Kennedy Hawkes, A.R.I.B.A., of 51 High Street, Esher, has opened an additional office, at 119, Victoria Street, S.W.1, and will be pleased to receive trade catalogues, information sheets, etc.

Buildings Illustrated

Flats, Wiltshire Close, Chelsea. (Pages 580-587.) Architect: Edward Armstrong, F.R.I.B.A. (Armstrong & McManus, F.R.I.B.A.). Assistant Architect: E. Howard Sadler, A.R.I.B.A., A.M.I.STRUCT.E. Quantity Surveyors: William C. Inman & Partners. General Contractor: Holloway Brothers (London) Ltd. Sub-contractors: Demolition, excavation, foundations, damp-courses, reinforced concrete, plumbing, Holloway Brothers (London) Ltd.; asphalt, Excel Asphalt Co. Ltd.; bricks, Finnis & Rault Ltd.; artificial stone, Enfield Stone Co. Ltd.; special roofings, paropa, Frazzi Ltd.; hollow-tile partitions, London Brick Co. Ltd.; glass, Aygee, Ltd.; woodblock flooring, Stevens & Adams Ltd.; patent flooring, S. Towers & Son Ltd.; waterproofing materials, Sika Ltd.; central heating, G. N. Haden & Sons Ltd.; gas fires, gas fixtures, North Thames Gas Board; boilers, Ideal Boiler & Radiator Co. Ltd.; electric wiring, Berkeley Electrical Engineering Co. Ltd.; sanitary fittings, John Bolding & Sons Ltd.; door furniture, bells, Nettlefolds & Sons Ltd.; casements, window furniture, Crittall Manufacturing Co. Ltd.; folding gates, metalwork, S. W. Farmer & Sons Ltd.; plaster, Jeffries & Grant Ltd.; decorative plaster, Southern & Midland Plastering Ltd.; joinery, doors, Montague L. Meyer Ltd.; wall tiling, Carter & Co. Ltd.; kitchen fittings, Built-In Fixtures Ltd.; lifts, Keighley Lifts Ltd.; lettering and signs, Wm. Pickford Ltd.

The National Institute for Medical Re-

search (pages 570-572), The Ridgeway, Mill Hill, N.W.7. Architect: Maxwell Ayrton and Partners. Quantity Surveyors: A. R. Mais and Partners. Constructional Engineer: E. W. Cook, followed by G. Palmer. General Contractor: Carcass, Walter Lawrence & Son Ltd.; war-time conversion, completion and internal work, Trollope & Colls Ltd. Sub-contractors: Asphalt, Limmer & Trinidad Lake Asphalt Co., Paropa, Fruzzi, Ltd.; bricks, Broomhill High Broom Brick & Tile Co. Ltd., Sibley, Ltd.; stone, Portland Stone Firms Ltd.; artificial stone, Concrete chainpiers, Mono Concrete Co., Chain—C. Hall (Metalworks) Ltd.; structural steel, Smith-Walker Ltd.; special roofings, F. Braby & Co. Ltd.; partitions, Sankey & Co., Fossalsil; patent glazing, Luxfer Ltd.; patent flooring, compressed cork tiles, Armstrong Cork Co.; central heating, boilers, electric wiring and light fixtures, ventilation, Troughton & Young (Heating) Ltd.; Richard Crittall & Co. Ltd.; sanitary fittings, J. Bolding & Sons Ltd., Doultton & Co. Ltd., Associated Clay Industries, Shanks Ltd.; stairtreads, Ferredo Ltd.; door furniture, Stedall & Co. Ltd.; casements, window furniture, Henry Hope & Sons Ltd.; rolling shutters, Arthur L. Gibson Ltd.; iron staircases, C. Hall (Metalworks) Ltd.; sunblinds, J. Avery & Co.; metalwork, Adrian Stokes Ltd., C. Hall (Metalworks) Ltd.; stonework, Wandsworth Stonemasonry Works; marble, J. Whitehead & Sons Ltd.; tiling, external window sills, Carter & Co. Ltd., W. B. Simpson; furniture, Art Metal Construction Co. (laboratories); shrubs and trees, Clark & Co.; lifts, Waygood-Otis Ltd.; cranes, Herbert Morris & Co.; clocks, Gent & Co. Ltd.; drainage and plumbing, Rogers Field & Bean; heating and ventilation, Vernon Hardy.

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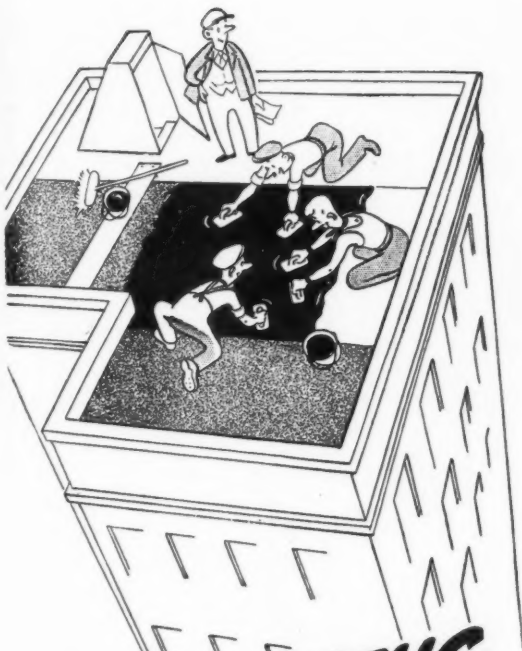
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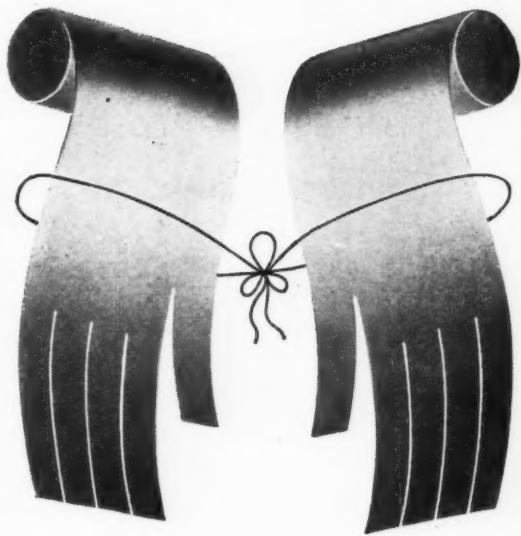
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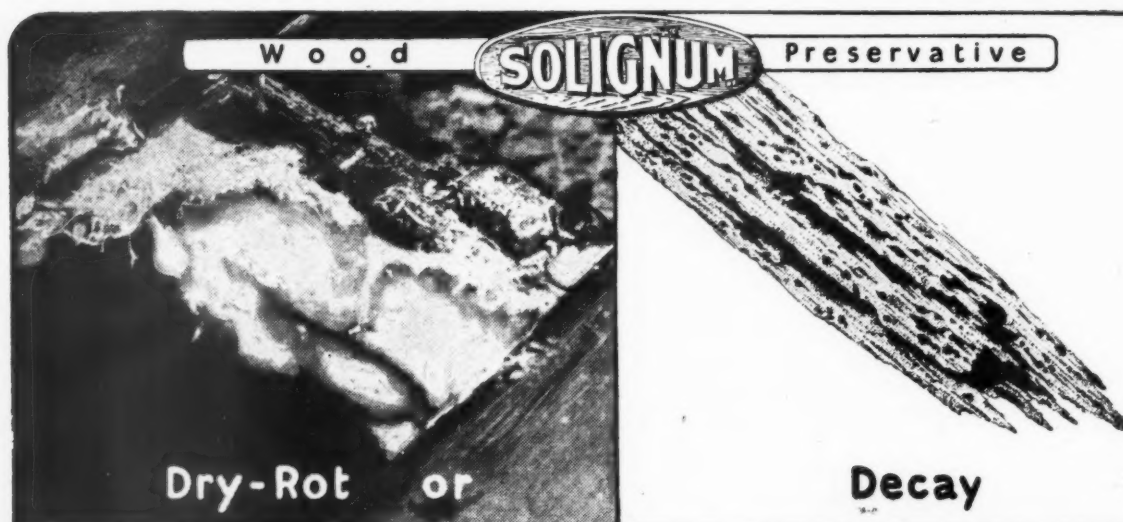
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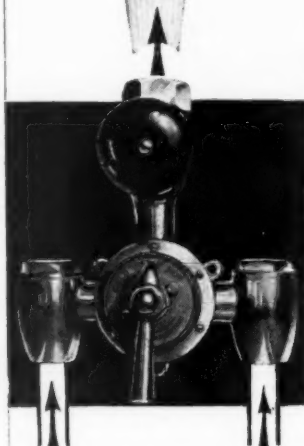
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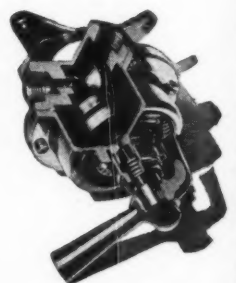
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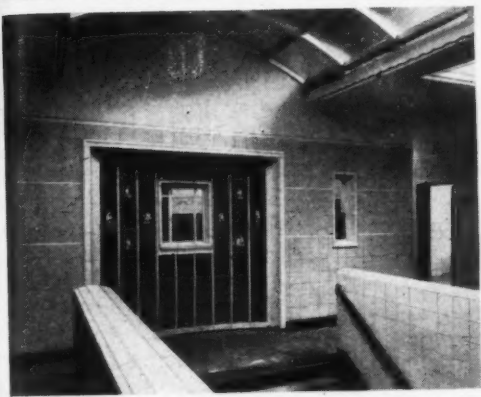


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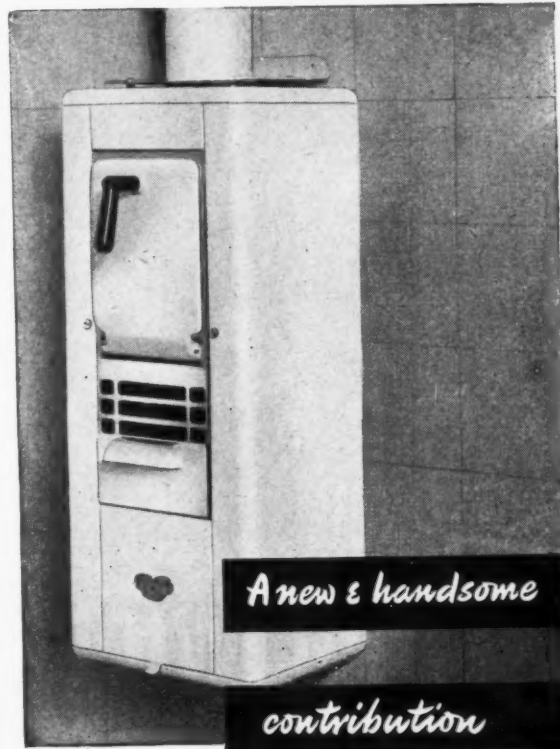
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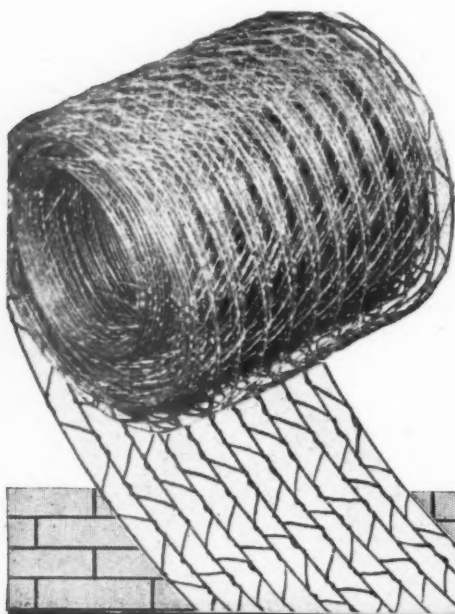
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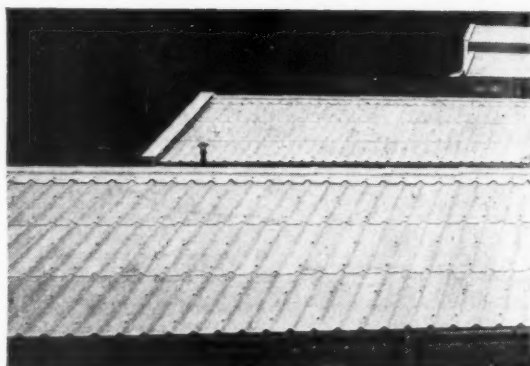
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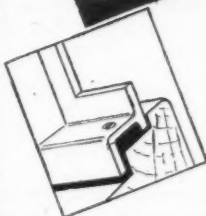
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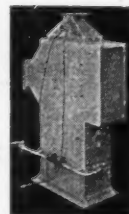
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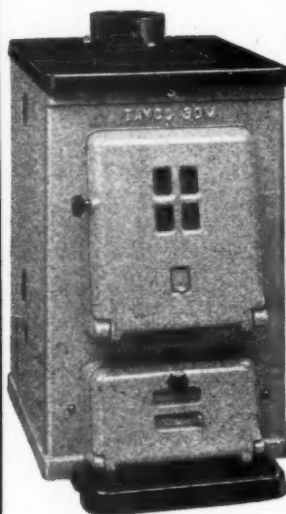
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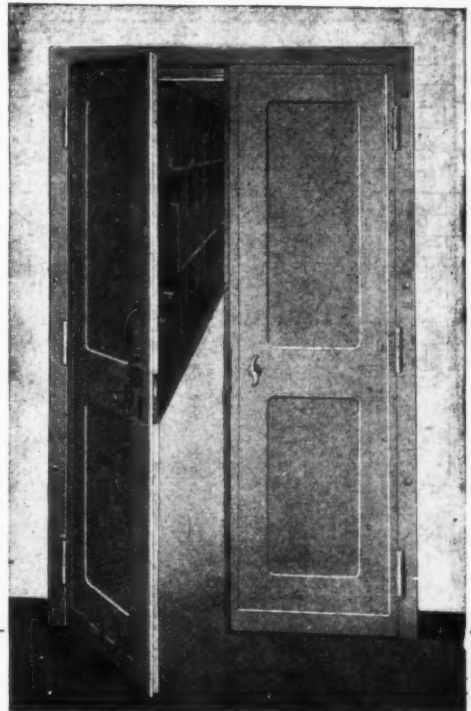
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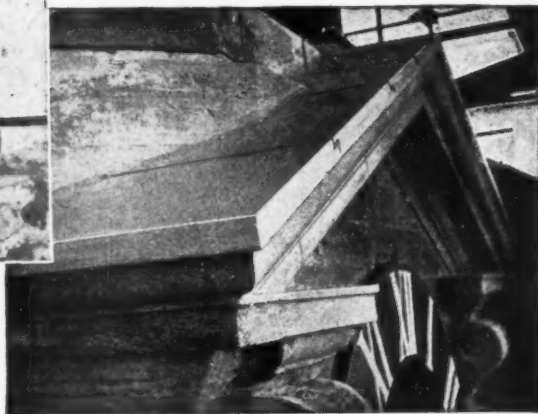
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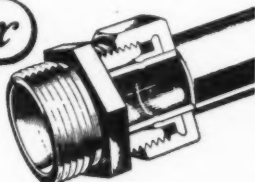
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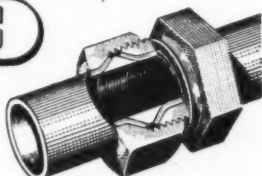
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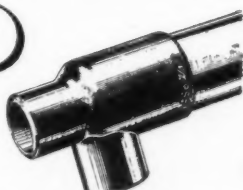
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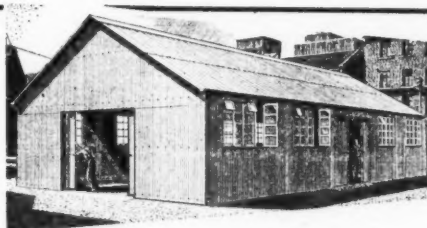
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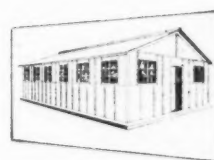
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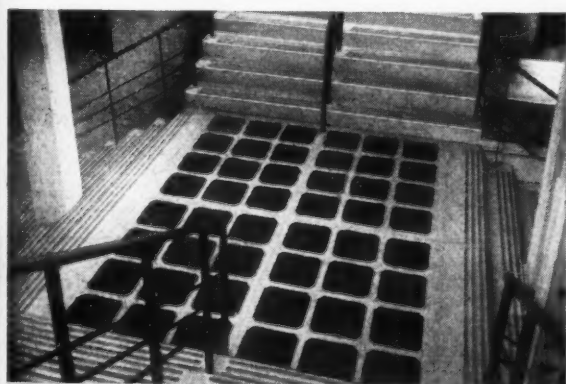
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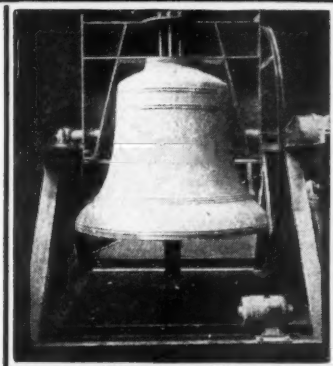
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CLASSIFIED ADVERTISEMENTS

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

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

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THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. ADDRESS: EMPLOYMENT REGISTER, WREN PARK, WHITELEAF, Tel.: Uplands 0935. 991

LONDON COUNTY COUNCIL

Applications are invited for unestablished positions of (i) ARCHITECT, Grade III (salaries up to £700 a year) and (ii) ARCHITECTURAL ASSISTANTS (salaries up to £550 a year), in the Housing and Valuation Department. Commencing salaries in either grade will be determined according to qualifications and experience. Engagement will be subject to the Local Government Superannuation Act, and successful candidates will be eligible for consideration for appointment to the permanent staff on the occurrence of vacancies.

Successful candidates will be required to undertake the design, layout and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's Division. Preference will be given to candidates holding a recognised professional qualification.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed envelope required, and quote Ref. G.R.3). Canvassing disqualifies. (2569) 1046

MINISTRY OF WORKS

Vacancies exist for SENIOR and LEADING ARCHITECTURAL ASSISTANTS in London, at Risley (Warrington), and at Capenhurst (Cheshire), for drawing office duties in connection with important Research Establishments. 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. 3501

EDINBURGH COLLEGE OF ART

ANDREW GRANT BEQUEST SCHOLARSHIPS

The Board of Management may award Four Senior Open Scholarships, for advanced study and/or research, of £500 each per annum for one year at the Edinburgh College of Art, to persons engaged in any branch of art (including Architecture and Town and Country Planning) who have completed a period of not less than two years' professional and/or industrial experience. They are open to men and women, married or single, of any nationality.

The College comprises Schools of Drawing and Painting, Design and Crafts, Sculpture, Architecture, and Town and Country Planning.

Further information may be had from the Secretary, Edinburgh College of Art, Lauriston Place, Edinburgh, to whom application on the prescribed form should be sent not later than 31st May, 1950. 4041

INLAND REVENUE-VALUATION OFFICE

LOCAL GOVERNMENT ACT, 1948.

Applications are invited for the following appointments:

(1) TEMPORARY ESTIMATORS (RATING). Salary £400-£750 p.a., according to age, experience and qualifications. Estimators are required to assist in the survey and costing of post-1918 dwelling-houses. Some experience of building construction is essential and a knowledge of building trade prices will be an advantage.

(2) REFERENCERS (RATING). Salary £200-£450 p.a., according to age and experience. Referencers are required to measure land and buildings, compute areas and cubic contents of buildings, etc. Previous experience of similar work is necessary.

The posts, although unestablished, have long-term possibilities and, from time to time, competitions are held for recruitment to established posts.

There are vacancies in practically all parts of England and Wales. The salaries quoted are London scales and are subject to provincial differentiation for officers serving outside London.

Write (quoting J 112B/50 and appropriate post No.) to Ministry of Labour and National Service, Technical and Scientific Register (K), York House, Kingsway, London, W.C.2, for application form. 4224

THURROCK URBAN DISTRICT COUNCIL. ENGINEER & SURVEYOR'S DEPARTMENT.

ARCHITECTURAL ASSISTANT, GRADE VI. An Architectural Assistant is required on the staff of the Engineer and Surveyor, Mr. C. H. Hawkes, A.M.I.C.E., M.I.Mun.E., M.R.Son.L., at a salary in accordance with Grade VI of the A.P.T. Division of the National Scale of Salaries, i.e., £595 per annum, rising by three increments to £660 per annum.

Candidates should be Associates of the Royal Institute of British Architects, and should be experienced in the preparation of drawings, specifications and estimates for building and architectural work usually undertaken by a Local Authority, particularly in connection with housing schemes on a large scale.

Housing accommodation, if necessary, will be provided for the successful candidate if he lives more than 20 miles from the district.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination. Applications, endorsed "Architectural Assistant, Grade VI," stating age, qualifications and experience, and quoting three references, should reach the undersigned not later than the first post on Tuesday, the 16th May, 1950.

Canvassing will disqualify and applicants must disclose in writing any relationship to any member or senior officer of the Council.

A. E. POOLE.

Clerk of the Council.

Council Offices, Whitehall Lane, Grays, Essex. 4157

BRACKNELL DEVELOPMENT CORPORATION (Bracknell, Berks.) invites applications from suitably qualified persons for the following appointments:

1. (a) SENIOR PLANNER.
(b) SENIOR ARCHITECT (Housing).
(c) SENIOR ARCHITECT (Other Buildings).
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(b) ARCHITECT (Housing).
(c) ARCHITECT (Other Buildings).
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3. (a) PLANNER.
(b) ARCHITECT (Housing).
(c) ARCHITECT (Other Buildings).
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4. FIVE JUNIOR ASSISTANTS.
Salary £420×£220-£520.

Applicants for 1(a), 2(a) and 3(a) should be Corporate Members of the R.I.B.A. and also have an appropriate Architectural qualification. They should have a sound knowledge of town planning, with particular reference to the problems of New Town development.

Applicants for 1(b), 1(c), 2(b), 2(c), 3(b), 3(c) should be Corporate Members of the R.I.B.A. and an additional town planning qualification will be an advantage. Architects (Housing) should have had experience of the design and construction of large housing layouts, and Architects (Other Buildings) of all types of industrial and public buildings appropriate to New Town development.

Applicants for (4) should have passed at least the examination of the appropriate professional body.

Successful applicants will work under the direction of E. A. Ferriby, B.Arch., A.R.I.B.A., A.M.T.P.I., Chief Architect to the Corporation. The posts will be permanent under the Local Government Superannuation Act, 1937, and successful candidates will be required to pass a medical examination.

Applications, giving full particulars of the candidate's age, qualifications and experience, together with the names of two persons to whom reference can be made, must reach the General Manager, Bracknell Development Corporation, 11, Grosvenor Square, London, W.1, on or before 3rd June, 1950. 4137

NATIONAL COAL BOARD-EAST MIDLANDS DIVISION.

ARCHITECTURAL STAFF.

Applications are invited for the following permanent and superannuated appointments:

(a) ARCHITECTS, Grade II. Salary £450×£25 to £700 per annum.

(b) ARCHITECTURAL ASSISTANTS, Grade I. Salary £410×£20 to £550 per annum.

(c) ARCHITECTURAL ASSISTANTS, Grade II. Salary £300×£20 to £400 per annum.

The Architectural work of the Division covers all new projects in the Division which embraces five counties. The work is of great variety and interest, and includes the design of industrial buildings of all types concerned in the planning of collieries, such as workshops, power plants, offices, stores, pithead baths, canteens, medical centres, institutes, recreation buildings, domestic work, convalescent homes and rehabilitation centres.

Part-time studying facilities are given to assistants in the Department to avail themselves of the advantages of the Nottingham School of Architecture.

The point of entry into the relevant salary scales will depend on the qualifications and experience of the successful applicants and, subject to satisfactory service, opportunities will be available for promotion to higher grades.

Applications, stating age, education, qualifications, experience, present appointment and salary, should be submitted within 14 days of publication of this notice to the Secretary, National Coal Board, East Midlands Division, Sherwood Lodge, Arnold, near Nottingham. Original testimonials should not be sent. Envelopes to be marked "Architectural Staff." 4133

METROPOLITAN BOROUGH OF

PADDINGTON.

HOUSING DEPARTMENT.

APPOINTMENT OF ASSISTANT

ARCHITECT (ONE).

Applications are invited for the above-mentioned appointment on the permanent establishment of the Housing Department, Architectural Section (which also deals with all Council's building work). Particular stress is laid on the desirability of candidates having been engaged on and having an interest in the best contemporary Architecture.

Salary A.P.T., VI/VII (£595-£710 per annum), plus London "weighting," according to age.

Applicants must be Registered Architects, preferably Associates of the Royal Institute of British Architects, and have had experience in Architectural design and construction of general Municipal work, including multi-storey flats, or similar experience with private firms of Architects.

The appointment will be subject to one month's notice on either side, to the provisions of the Council's Superannuation Acts and Standing Orders, and to the National Joint Council's Scheme of Conditions of Service.

The commencing salary will be at an appropriate point within the grades, dependent upon the qualifications and experience of the successful candidate.

Forms of application and conditions of appointment can be obtained from me on receipt of a stamped, addressed, foolscap envelope. Applications should be delivered to me, in an envelope endorsed "Assistant Architect," not later than noon on Tuesday, 30th May, 1950.

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

Canvassing, directly or indirectly, will disqualify.

W. H. BENTLEY,

Town Clerk.

Town Hall, Paddington, W.2. 4159

4th May, 1950.

DEVON COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the under-mentioned appointments on the permanent staff. Conditions of service and salaries are in accordance with the National Joint Council Scheme for Local Authorities:

ONE ASSISTANT ARCHITECT, Grade A.P.T., IX (£750-£900 per annum).

TWO ASSISTANT ARCHITECTS, Grade A.P.T., VIII (£685-£760 per annum).

ONE ASSISTANT ARCHITECT, Grade A.P.T., VII (£635-£710 per annum).

TWO ASSISTANT ARCHITECTS, Grade A.P.T., VI (£595-£660 per annum).

Application forms, with full particulars of qualifications and experience required for the various posts, are obtainable from the County Architect, 97, Heavitree Road, Exeter, and must be returned to him by Wednesday, the 24th May, 1950.

Canvassing, directly or indirectly, will disqualify.

H. A. DAVIS,

Clerk of the County Council.

The Castle, Exeter. 4154

26th April, 1950.

BUCKS COUNTY COUNCIL.

The County Architect invites applications from qualified ASSISTANT ARCHITECTS who possess a keen and energetic enthusiasm for their profession. Candidates should preferably have been trained at a recognised School of Architecture.

Salary Grade VIII, £685-£760 p.a.

Further particulars and form of application may be obtained from the County Architect, County Offices, Aylesbury, to whom they must be delivered by 22nd May, 1950. 4156

CANTERBURY EDUCATION COMMITTEE.

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SCHOOL OF ARCHITECTURE.

Required as soon as possible a full-time STUDIO MASTER for work in connection with Finals Course. The College is approved by the R.I.B.A. as a Listed School. Candidates must be Associates or Fellows of the R.I.B.A., preferably school trained and with some professional experience in Architecture. Previous teaching experience is desirable but not essential. Salary in accordance with Burnham Scale. Up to ten increments may be allowed for suitable professional experience.

Applications, giving full particulars of training qualifications and experience, should be sent to the Principal as soon as possible.

N. POLMEAR,

Chief Education Officer.

78, London Road, Canterbury. 4145

BOROUGH OF GRAVESEND.

BOROUGH ENGINEER AND SURVEYOR'S

DEPARTMENT.

APPOINTMENT OF ASSISTANT ARCHITECT,

GRADE IV.

Applications are invited for the above appointment, at a salary in accordance with Grade IV of the National Scales (£480×£15-£525 per annum).

Conditions of appointment and form of application may be obtained from the undersigned, to whom completed forms should be returned not later than Monday, the 22nd May, 1950.

GEORGE E. HILL, B.A., A.M.I.C.E., M.I.Mun.E.,

Borough Engineer and Surveyor.

Municipal Offices, Woodville Terrace,

Gravesend. 4121

April, 1950.

SALOP COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments to established posts in the Department:—

(1) SENIOR ASSISTANT ARCHITECT. A.P.T., Grades V-Va. Salary £520 to £610 per annum.

(2) ASSISTANT ARCHITECT. A.P.T., Grades II-III. Salary £420 to £496 per annum.

The appointments will be subject to one month's notice in writing on either side; to the terms of the National Joint Council's Scheme of Conditions of Service, and to the provisions of the Local Government Superannuation Act, 1937. The successful applicants will be required to pass a medical examination.

Application forms may be obtained from the County Architect, A. G. Chant, F.R.I.B.A., Column House, London Road, Shrewsbury, to whom they must be returned, accompanied by copies of not more than three recent testimonials, not later than Tuesday, 23rd May, 1950.

G. C. GODBER,

Clerk of the Council.

Shrewsbury,
April, 1950.

4127

CITY OF PLYMOUTH.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments on the established staff, subject to the Conditions of Service of the National Joint Council for Local Authorities, Administrative, Professional, Technical and Clerical Services, the Local Government Superannuation Act, 1937, and one month's notice on either side for termination.

(a) SENIOR ASSISTANT ARCHITECT. A.P.T., Grade VII (£635-£710).

(b) TWO SENIOR ASSISTANT ARCHITECTS. A.P.T., Grade VI (£595-£660).

(c) ASSISTANT ARCHITECT. A.P.T., Grade V (£520-£570).

(d) ASSISTANT ARCHITECT. A.P.T., Grade II (£420-£465).

The Department is responsible for the Corporation's Architectural work, including Housing, Education and General Municipal Buildings. Candidates for appointments (a), (b) and (c) must be Registered Architects, and preference will be given to Members of the R.I.B.A. In the case of appointment (d) preference will be given to candidates who have passed the Intermediate Examination of the R.I.B.A. Successful candidates will be required to pass a medical examination. Applications, on forms obtainable from the undersigned, accompanied by copies of not more than three recent testimonials and/or names of persons to whom reference may be made, should be received at my office not later than Monday, 22nd May, 1950.

The Corporation may make housing accommodation available to the successful married candidates if required.

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

City Architect.

Seymour Road, Plymouth.

4175

CITY OF WAKEFIELD.

CITY ENGINEER'S DEPARTMENT.

APPOINTMENT OF PRINCIPAL ARCHITECTURAL ASSISTANT, GRADE VII.

Applications are invited for the following appointment of PRINCIPAL ARCHITECTURAL ASSISTANT (Housing and General), at a salary on Grade VII (£635-£710).

The appointment will be subject to the Local Government Superannuation Act and to the passing of a medical examination.

Candidates should state in writing whether to their knowledge they are related to any member or senior official of the Corporation. Canvassing will be a disqualification.

Applications, endorsed "Principal Architectural Assistant," stating age, qualifications, present and previous appointments, and details of experience, together with copies of two testimonials or name of two referees, should be sent to me not later than Tuesday, the 16th May, 1950.

The Council will give consideration to the provision of a house for the successful candidate if required.

W. S. DES FORGES,

Town Clerk.

Town Hall, Wakefield.

21st April, 1950.

4120

CITY OF STOKE-ON-TRENT.

CITY ARCHITECT'S DEPARTMENT.

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

(a) SENIOR ASSISTANT ARCHITECTS. Salary A.P.T. Division, Grade VII, £635-£710.

(b) ASSISTANT ARCHITECTS. Salary A.P.T. Division, Grade V, £520-£570.

The selected applicants will be required to pass a medical examination, and the appointments will be subject to the provisions of the Local Government Superannuation Act, 1937.

Previous experience of Local Government work is not essential.

Suitable housing accommodation can be made available to the successful candidates for appointment (a).

Applications, giving date of birth, particulars of training, experience, etc., with copies of two recent testimonials, should be received by J. R. Piggett, F.R.I.B.A., City Architect, Kingsway, Stoke-on-Trent, endorsed with the title of the appointment applied for, not later than Tuesday, 23rd May, 1950.

HARRY TAYLOR, *Town Clerk.*

Town Hall, Stoke-on-Trent.

20th April, 1950.

4106

BOROUGH OF BRENTFORD AND CHISWICK.
APPOINTMENT OF (a) JUNIOR BUILDING INSPECTOR AND (b) TEMPORARY JUNIOR ARCHITECTURAL DRAUGHTSMAN.

BOROUGH SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of:—

(a) Junior Building Inspector and Town Planning Assistant on the permanent staff, at a consolidated salary according to Miscellaneous Division, Grade I, of the National Scheme of Conditions of Service (£315-£360 per annum, plus appropriate London weighting), commencing 1st year, the appointment being determinable by one month's notice on either side. Applicants must possess good knowledge of building construction, and preferably have had experience in a Building Inspector's office, and also possess a general knowledge of Town Planning; and

(b) Temporary Junior Architectural Draughtsman, at a consolidated salary according to the Miscellaneous Division Grade I of the National Scheme of Conditions of Service (£315-£360 per annum, plus appropriate London weighting), commencing 1st year, the appointment being determinable by one month's notice on either side. Applicants should be experienced in the tracing and colouring of architectural and engineering drawings, and a working knowledge of building construction and Municipal engineering being an advantage.

Applications for the above-mentioned appointments must be made on the prescribed forms (which contains particulars and conditions of appointment) obtainable from the undersigned, to whom applications should be sent not later than the 25th May, 1950.

W. F. J. CHURCH,

Town Clerk.

Town Hall, Chiswick.

4180

SALOP COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of a SENIOR ASSISTANT ARCHITECT, to act as a Senior Section Head, on A.P.T., Grades VII-VIII (£635 to £760 per annum).

Applicants must be Registered Architects and Members of the R.I.B.A.

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

Application forms may be obtained from the County Architect, A. G. Chant, F.R.I.B.A., Column House, London Road, Shrewsbury, to whom they must be returned, accompanied by copies of not more than three recent testimonials, not later than Wednesday, 31st May, 1950.

G. C. GODBER,

Clerk of the Council.

Shrewsbury,

May, 1950.

4191

BOROUGH OF DOVER.

ARCHITECTURAL AND ENGINEERING ASSISTANTS.

Applications are invited for the following appointments:—

(1) ARCHITECTURAL ASSISTANT. Salary Grade III or IV of the National Scales, according to experience.

(2) JUNIOR ENGINEERING ASSISTANT. Salary Grade III of the National Scales.

Applicants for (1) should have passed the R.I.B.A. Intermediate Examination and have had experience in housing and general building construction, and applicants for (2) should have passed the Intermediate or equivalent examination of the Institution of Civil Engineers or the Institution of Municipal Engineers.

Applications, stating age, qualifications and experience, accompanied by copies of three recent testimonials, must reach the Borough Engineer, Brook House, Dover, not later than Monday, 22nd May, 1950.

JAMES A. JOHNSON,

Town Clerk.

New Bridge House, Dover.

28th April, 1950.

4181

BOROUGH OF RADCLIFFE.

BOROUGH ENGINEER'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above-mentioned permanent appointment in the office of the Borough Engineer and Surveyor, at a salary in accordance with Grades III or IV of the National Scale of Salaries (£450 to £495 or (£480 to £525).

The person appointed must be experienced in the preparation of plans, specifications, etc., for Housing, Public Buildings and general Municipal work in the Borough, and must have a thorough knowledge of present day building.

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

The Council may be able to assist in the matter of housing accommodation.

Applications, stating age, qualifications and experience, together with copies of not more than three recent testimonials, and endorsed "Architectural Assistant," must be received by the undersigned not later than Tuesday, the 23rd May, 1950.

Canvassing will disqualify.

H. A. FOX,

Town Clerk.

Town Hall, Radcliffe, Lincs.

2nd May, 1950.

4205

BOROUGH OF KEIGHLEY.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment on the permanent staff of an ARCHITECTURAL ASSISTANT, Grade A.P.T., II, salary scale £40-£465.

Applicants for the position should possess general architectural experience. Experience in Municipal Housing work and Schools would be an advantage.

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, 18th May, 1950.

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

Borough Architect.

Borough Architect's Department,

College Street, Keighley.

4193

BOROUGH OF ACTON.

ARCHITECTURAL ASSISTANT.

Applications for this permanent appointment are invited from Registered Architects, with experience in the design, erection and maintenance of houses, flats and public buildings. Salary within Grade A.P.T., V, of the National Scale (£520-£570 per annum), plus London "weighting."

Application forms and conditions of appointment may be obtained from the Borough Engineer, Town Hall, Acton, W.3, to whom the applications must be returned by 22nd May, 1950.

Canvassing will disqualify.

H. C. LOCKYER,

Town Clerk.

Town Hall, Acton, W.3.

4208

COUNTY BOROUGH OF NORTHAMPTON.
DEPARTMENT OF BOROUGH ARCHITECT AND TOWN PLANNING OFFICER.
APPOINTMENT OF TOWN PLANNING ASSISTANT, GRADE A.P.T., III (£450-£495).

Applications for the above appointment, stating age, qualifications, experience, past and present appointments and salary, whether related to any member or senior officer of the Council, and giving the names of two persons to whom reference can be made, should be delivered to J. L. Womersley, A.R.I.B.A., A.M.T.P.I., Borough Architect and Town Planning Officer, Guildhall, Northampton, not later than 22nd May, 1950. The successful applicant will be required to assist in the preparation of the Survey and Development Plan. He should have passed the Intermediate Examination of either the Town Planning Institute or a similar body, and be a first-class draughtsman capable of preparing presentation drawings. Experience in the Survey of Use and Age and condition of Buildings will be an advantage.

Canvassing will disqualify.

C. E. VIVIAN ROWE,

Town Clerk.

Northampton.

4210

MINISTRY OF WORKS.

There are vacancies in the Chief Architect's Division for ARCHITECTURAL ASSISTANTS, with recognised and fair experience. Successful candidates will be employed in London and elsewhere on a wide variety of Public Buildings, including Atomic Energy and other Research Establishments, Telephone Exchanges, and Housing.

Salary: Architectural Assistants, £300-£525 per annum, plus overtime. Starting pay will be assessed according to age, qualifications and experience. These rates are for London; a small deduction is made in the Provinces.

Although these are not established posts, some of them have long term possibilities, and competitions are held periodically to fill established vacancies.

Apply in writing, stating age, nationality, full details of experience and locality preferred, to Chief Architect, W.G.10/AT, Ministry of Works, Abell House, London, S.W.1.

4083

METROPOLITAN BOROUGH OF HAMPSHIRE.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the post of ASSISTANT ARCHITECT (temporary) in the Housing Architect's Section, at an annual salary in accordance with A.P.T., Grade V, £520-£570, plus £30 London weighting. Further particulars of the appointment can be obtained from the Town Clerk, Town Hall, Hampshire, N.W.3. Completed applications should reach the Town Clerk not later than Monday, the 29th May, 1950.

4212

CITY OF PORTSMOUTH.

DEPUTY CITY PLANNING OFFICER.

Applications are invited for the appointment of Deputy City Planning Officer, at a salary in accordance with A.P.T., Grade IX (£750-£900 per annum).

Applicants must be Associate Members of the Town Planning Institute, and should preferably hold a recognised qualification in Architecture, Engineering or Surveying.

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

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

Applications, stating age, present position, qualifications, and experience, together with names of three referees, must be delivered to the undersigned not later than 26th May, 1950.

Canvassing will disqualify.

V. BLANCHARD,

Town Clerk.

City Council Chambers, Portsmouth.

4172

CITY OF LEEDS.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) CHIEF ASSISTANT ARCHITECT (Public Buildings). Salary scale £750-£900 p.a. Candidates must be Registered Architects, competent in architectural design and administration, have had actual experience in the carrying out of architectural works, and be familiar with statutory modern building requirements and regulations in connection with Public Buildings. The successful candidate will be in charge of a section of the department.

(b) SENIOR ASSISTANT QUANTITY SURVEYOR. Salary scale £750-£900 p.a. Candidates must be fully qualified Quantity Surveyors, with a considerable experience in large scale contracts. The successful candidate will be next in seniority to the Chief Quantity Surveyor and should therefore be accustomed to supervising a large staff.

(c) MATERIALS CLERK. Salary scale £375-£450 p.a. Candidates must have had a wide experience of the building trade and the supply of building materials.

In each case the payment of salary increments will be subject to satisfactory service and will be granted normally with effect from the 1st April following the completion of 6 months' service.

The appointments are subject to the Local Government Superannuation Act, 1937, and the successful applicants will be required to pass a medical examination.

Applications, on forms to be obtained from the undersigned, accompanied by copies of not more than three recent testimonials (not returnable) must be received by me in the envelope supplied therefor, not later than 10 a.m. on Friday, the 19th May, 1950.

Canvassing in any form, either directly or indirectly, will be a disqualification.

R. A. H. LIVETT, A.R.I.B.A.,

City Architect.

Priestley House, Quarry Hill, Leeds, 9. 4200

1st May, 1950.

HUNTINGDON COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ARCHITECTURAL ASSISTANT, Grade IV, A.P.T. Salary £480×£15 to £525 per annum.

(b) ARCHITECTURAL ASSISTANT, Grade III, A.P.T. Salary £450×£15 to £495.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937.

Applications should be submitted to S. J. Hands, A.R.I.B.A., County Architect, County Buildings, Huntingdon, by not later than Tuesday, 16th May, 1950, with two recent testimonials or the names of two persons to whom reference may be made.

JOHN KELLY,

Clerk of the County Council.

County Buildings, Huntingdon. 4209

CITY OF DURHAM.

ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant. Applicants must be Registered Architects, and the salary will be £520 per annum, rising, subject to satisfactory service, to £570 per annum. The appointment will be subject to the Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination. If the successful applicant is married housing accommodation will be available.

Applications, stating age, qualifications, present and previous appointments and experience, together with copies of two recent testimonials, must be delivered to the undersigned not later than Friday, the 19th May, 1950.

D. B. MARTIN-JONES,

Town Clerk.

2, Claypath, Durham. 4198

CARSHALTON URBAN DISTRICT COUNCIL.

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT, in the Engineer and Surveyor's Department, at a salary within Grades A.P.T., III-IV, of the National Scales (£450×£15-£525), plus "London weighting." The commencing salary will be fixed according to the experience and qualifications of the successful applicant.

Applicants must be engaged on a course of study leading to a recognised architectural qualification, and preference will be given to candidates holding the Intermediate Examination Certificate or the R.I.B.A. They must also be good draughtsmen and have had a sound training in architectural work.

The appointment will be subject to (1) the provisions of the National Scheme of Conditions of Service; (2) the passing of a medical examination for superannuation purposes, and (3) one month's notice on either side.

No special action will be taken to provide the successful applicant with housing accommodation.

Applications on forms obtainable from the undersigned must be returned, together with the names of three referees, not later than the 22nd May, 1950. Canvassing in any form will be a disqualification.

J. W. WRIGHT,

Clerk of the Council.

District Council Offices, The Grove, Carshalton, Surrey. 4186

CIVIL SERVICE.

QUANTITY SURVEYORS AND ASSISTANT QUANTITY SURVEYORS are required throughout the United Kingdom by the Ministry of Works, The War Damage Commission, Admiralty, War Department, Air Ministry and occasionally overseas by the Admiralty, Air Ministry and War Department. Although these are not established posts, some of them have long term possibilities, and competitions are held periodically to fill established vacancies.

Salaries for these professional posts in London for officers over 26 years of age range up to £750 per annum, they are slightly lower in the provinces. Salary on entry will be in accordance with age, qualifications and experience.

Vacancies also exist for QUANTITY SURVEYING ASSISTANTS and others having some experience in a quantity surveyor's office, at salaries ranging from £300 p.a. upwards.

Applicants should write, quoting ref. J.Q.S., to Room 368, Ministry of Labour and National Service, Technical and Scientific Register, York House, Kingsway, London, W.C.2. 4223

BOROUGH OF ABERYSTWYTH.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant, at a salary in accordance with Grades II-IV of the National Scale of Salaries (£420-£525). The commencing salary will be fixed according to the applicant's qualifications and experience.

Applicants should have had previous experience in Housing and Public Buildings, and should be members of a recognised professional body.

The appointment is subject to:—

(1) The National Joint Council Scheme of Conditions of Service.

(2) The provisions of the Local Government (Superannuation) Act, 1937.

(3) The passing of a medical examination.

(4) Termination by one month's notice on either side.

Applications, stating age, qualifications, experience, etc., and giving the names of two persons to whom reference can be made, and endorsed "Architectural Assistant," must reach the undersigned not later than 26th May, 1950.

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

Canvassing, directly or indirectly, will be a disqualification.

H. D. P. BOTT,

Town Clerk.

Town Hall, Aberystwyth. 4179

CROWN AGENTS FOR THE COLONIES.

ARCHITECTURAL ASSISTANT required by the Government of Uganda for the Public Works Department, for one tour of 24 to 36 months in the first instance, with prospect of permanency. Initial salary according to age and experience in the scale £550, rising to £690 a year. Outfit allowance £30. Free passages and liberal leave on full salary. Candidates not over 35 years of age must be rapid and accurate Architectural Draughtsmen, and have had experience in preparation of working drawings of buildings, and be capable of carrying out calculations for reinforced concrete structures. Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper, to the Crown Agents for the Colonies, 4, Milbank, London, S.W.1, quoting M/N 24985/3A on both letter and envelope. The Crown Agents cannot undertake to acknowledge all applications, and will communicate only with applicants selected for further consideration. 4177

EAST KILBRIDE DEVELOPMENT CORPORATION.

The Corporation invite applications for the following appointments:—

(a) ARCHITECTS. Salary scale £550×£30-£760 per annum.

Candidates should be Associates of the Royal Institute of British Architects or possess similar qualifications, and should show evidence of a sensitive approach to the contemporary design, equipment and layout of buildings. It is essential that candidates should have had practical experience in the handling of contracts; recent experience in the layout, design and equipment of large housing schemes, blocks of flats and school buildings would be an advantage.

(b) ASSISTANT ARCHITECTS. Salary scale £450×£25-£525 per annum.

(c) JUNIOR ASSISTANT ARCHITECTS. Salary scale £390×£25-£465 per annum.

(d) ASSISTANT PLANNERS. Salary scale £450×£25-£525 per annum.

Candidates for (d) should have an architectural or civil engineering background, and some experience in the layout of large housing developments or groups of buildings.

The commencing salary in each case will be in accordance with qualifications, experience, etc. The appointments are subject to the Corporation's Conditions of Service. A house will be made available if required.

There is a superannuation scheme, and selected candidates will require to pass a medical examination. Application forms may be obtained from the General Manager Torrance House, East Kilbride, Lanarkshire, to whom they should be returned not later than 1st June, 1950. Canvassing, directly or indirectly, of the members of the Corporation will constitute an absolute disqualification. 4146

COUNTY BOROUGH OF BARNSLEY.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) SECOND PLANNING ASSISTANT (A.P.T., IV/V, £480-£570 per annum).

(b) GENERAL TECHNICAL ASSISTANT (A.P.T., II, £420-£465 per annum).

(c) JUNIOR ARCHITECTURAL ASSISTANT (A.P.T., II, £420-£465 per annum).

(d) TEMPORARY JUNIOR ARCHITECTURAL ASSISTANT (HOUSING) (A.P.T., I, £390-£435).

(e) DEPUTY HIGHWAYS SUPERINTENDENT (wages £8 7s. 4d. per week, rising by two annual increments of 5s. 9d. to £8 18s. 10d. per week).

Applicants for appointment (a) must have had previous planning experience, preferably with a County Borough, and must have passed the Intermediate Examination of the Town Planning Institute.

Applicants for appointment (b) must have completed professional training for a Municipal Office in engineering, architecture or surveying.

Applicants for appointments (c) and (d) must have received professional training in an Architect's office, with experience in the design and construction of houses.

Applicants for appointment (e) must have had extensive experience in the construction and maintenance of roads and sewers and the control of labour.

The successful candidates for appointments (a), (b) and (c) will be required to pass a medical examination and become contributors under the Local Government Superannuation Acts.

Appointment (d) will not be superannuable unless the successful candidate is already a contributor.

Appointment (e) is not superannuable.

Housing accommodation will not be provided. Applications, suitably endorsed, accompanied by copies of not more than three testimonials, to be delivered to Mr. C. R. Hollingsworth, A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor and Planning Officer, Town Hall, Barnsley, not later than Monday, 22nd May, 1950.

Canvassing, either directly or indirectly, will be deemed a disqualification.

A. E. GILFILLAN,

Town Clerk.

Town Hall, Barnsley. 4192

BOROUGH OF EALING.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited for the following permanent appointments at salaries in accordance with the under-mentioned Grades of the A.P.T. Division of the National Scheme of Conditions of Service:—

(a) CHIEF ARCHITECTURAL ASSISTANT, Grade VIII, at the maximum, viz., £760 per annum, plus £30 London weighting.

(b) TWO ARCHITECTURAL ASSISTANTS, Grade VI, commencing at £595 per annum and rising by annual increments to £660 per annum, plus £30 London weighting.

Applicants must be Corporate Members of the Royal Institute of British Architects or possess a recognized equivalent qualification. Preference will be given to candidates with Municipal experience.

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

Forms of application, together with conditions of appointment, may be obtained from the Borough Engineer and Surveyor, Town Hall, Ealing, W.5, and must be returned to me not later than the 15th May, 1950.

E. J. COPE BROWN,

Town Clerk.

Town Hall, Ealing, W.5. 4126

20th April, 1950.

NORTH RIDING OF YORKSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of PRINCIPAL ASSISTANT ARCHITECT, Grade A.P.T., VIII, of the National Scales (£585-£760).

Applicants must be Members of the Royal Institute of British Architects, qualified by examination, and must have had experience in the control of staff, organisation of work, and in the design and construction of Police and other general County buildings.

The appointment will be terminable by two calendar months' notice on either side and subject to the Local Government Superannuation Act, 1937, and a satisfactory medical examination.

Forms of application are not being issued, but if further information is required it may be obtained from the County Architect, County Hall, Northallerton. Applications, stating age, qualifications and experience, together with particulars of present and previous appointments and the names and addresses of three persons to whom reference can be made, must be delivered to the undersigned not later than the 25th May, 1950.

Canvassing, directly or indirectly, will be deemed a disqualification, and candidates should state, in writing, whether they are related to any member of the Council, or the Head of any Department or his standing Deputy.

H. G. THORNTON,

Clerk of the County Council.

County Hall, Northallerton. 4215

1st May, 1950.

**CITY OF PETERBOROUGH.
CITY ENGINEER AND SURVEYOR'S
DEPARTMENT.**

Applications are invited for the appointment of a QUANTITY SURVEYOR, in the Architectural Section of the City Engineer and Surveyor's Department, at a salary in accordance with A.P.T. Grade V, £520-£570 per annum. Applicants must be capable of taking off and preparing bills of quantities, abstracting, billing, measuring up on site and agreeing final accounts, preparing estimates and writing specifications.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination. Applications, stating age, qualifications and experience, accompanied by copies of not more than three recent testimonials and suitably endorsed, must be delivered to the undersigned not later than Saturday, 27th May, 1950.

Housing accommodation is not immediately available, but the Council will, if necessary, assist so far as they are able the successful applicant to obtain accommodation, but it must be distinctly understood that the Council do not guarantee to find either a house or living accommodation.

Canvassing, directly or indirectly, will be a disqualification, and candidates must disclose whether they are related to any member or senior officer of the Council.

C. PETER CLARKE,

Town Clerk.

Town Hall, Peterborough.

May, 1950.

4228

**SOUTH-EASTERN REGIONAL HOSPITAL
BOARD, SCOTLAND.
CHIEF ARCHITECT'S DEPARTMENT.**

A vacancy occurs for the undermentioned permanent appointment:—

PRINCIPAL ASSISTANT ARCHITECT. Salary A.P.T., Grade VIII, £685-£725-£760 per annum.

Applicants should be Members of the R.I.B.A. and have had wide experience of the planning, design and construction of large building projects, preferably including hospital buildings.

Applications, giving details of age, training, qualifications, and experience, along with the names and addresses of three referees, should be addressed to the Chief Architect, 6, Cambridge Street, Edinburgh, 1, on or before Tuesday, 16th May, 1950.

4194

**COUNTY OF LINCOLN—PARTS OF
KENTEN.**

**COUNTY ARCHITECT'S DEPARTMENT.
APPOINTMENT OF HEATING AND
ELECTRICAL ENGINEER.**

Applications are invited for the above appointment in the County Architect's Department. Salary will be in accordance with A.P.T. Division, Grade VII, of the National Scale, i.e., £535, rising by annual increments of £25 to a maximum of £710 per annum. Commencing salary will be in accordance with experience. Car and subsistence allowances will be paid on the National Scales.

Applicants must be experienced in the design of schemes for heating and h. and c. water supply installations; the preparation of specifications, quantities, estimates and drawings; the supervision, inspection and maintenance of new and existing installations. Preference will be given to candidates who have also had experience in the design of schemes and the preparation of specifications and drawings for electric light and power installations and maintenance thereof.

Applicants should be Members of the Institute of Heating and Ventilating Engineers, the Institute of Electrical Engineers, or equivalent.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, to a satisfactory medical certificate, and to termination by three months' notice in writing on either side.

Applications, giving full particulars of age, qualifications, and experience, together with the names and addresses of two referees or copies of two recent testimonials, should reach the undersigned not later than 26th May, 1950.

Canvassing, either directly or indirectly, will disqualify.

J. E. BLOW,

Clerk of the County Council

County Offices, Stamford, Lincs.

3rd May, 1950.

4227

**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 salary is provisional and will be subject to negotiation through the medium of the appropriate negotiating body.

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 "Assistant Architect," should be submitted to arrive not later than 26th May, 1950, to the Divisional Controller, British Electricity Authority, Eastern Division, Northmet House, Southgate, N.14.

W. N. C. CLINCH,

Controller.

Northmet House, Southgate, N.14.

4226

**GLOUCESTERSHIRE COUNTY COUNCIL.
APPOINTMENT OF BUILDING INSPECTOR.**

Applications are invited for the appointment of a BUILDING INSPECTOR in the County Architect's Department, at a salary of £420 p.a., rising to £465 p.a. (A.P. and T. Grade II, of the National Joint Council's Scheme of Conditions of Service).

Candidates must have had a sound experience of the building trade, be competent to carry out inspections of buildings, their furnishing and equipment, prepare Specifications and Estimates of costs of repairs required, set out works, supervise their execution, measure up on completion and check accounts.

The appointment is terminable by one month's notice on either side, and is subject to the provisions of the Local Government Superannuation Act, 1937, and to the passing satisfactorily of a medical examination.

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Shire Hall, Gloucester, not later than Wednesday, 17th May, 1950.

GUY H. DAVIS,

Clerk of the County Council.

Shire Hall, Gloucester.

28th April, 1950.

4190

**LONDON COUNTY COUNCIL.
Brixton School of Building.**

Applications are invited from suitably qualified persons for inclusion in a panel of visiting evening TEACHERS in the following subjects:—

Building Construction, Building Science, Building Geometry and Mathematics, Builders' Accountancy, Builders' Estimating, Quantity Surveying, Land Surveying, Valuations and all subjects of the R.I.C.S. examinations. Architectural Design and all subjects of the R.I.B.A. examinations. Structural Engineering subjects, including Theory of Structures, Specifications, Steelwork Design and Details and Reinforced Concrete Design and Details.

Application forms may be obtained from the Secretary at the School, Ferndale Road, S.W.4, on receipt of a stamped addressed foolscap envelope. (538)

4202

**COUNTY BOROUGH OF WALLASEY.
CHIEF TOWN PLANNING ASSISTANT
(GRADE VIII).**

Applications are invited for the appointment of Chief Town Planning Assistant on the permanent staff of the Borough Engineer and Surveyor's Department, at a salary in accordance with Grade A.P.T., VIII, £685-£760 per annum.

Full particulars and a form of application, which must be returned not later than 2nd June, 1950, may be obtained from the Borough Engineer and Surveyor, Town Hall, Wallasey.

EMRYS EVANS,

Town Clerk.

4229

THE UNIVERSITY OF MANCHESTER.

Applications are invited for the position of ASSISTANT BUILDINGS OFFICER in the Bursar's Department. Technical qualifications such as Architect or Surveyor are essential. Commencing salary £650 per annum. In addition a children's allowance (£50 per annum for each child in receipt of full time education) is payable. The post carries membership of the Federated Superannuation Scheme for Universities. Applications should be sent to the Bursar, The University, Oxford Road, Manchester, from whom further particulars may be obtained.

4207

COUNTY BOROUGH OF DERBY.

Applications are invited for the following appointment on the permanent staff, in accordance with the National Scale of Salaries:—

ONE JUNIOR ARCHITECT, Grade I/II. Salary £390-£465.

Applicants should be not less than 21 years of age and should have passed the Preliminary Examination of the R.I.B.A., and have had experience in general architectural work.

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

Forms of application may be obtained from Thos. W. East, F.R.I.B.A., Borough Architect, The Council House, Corporation Street, Derby; and should be returned when completed, together with a copy of one testimonial and the names of two persons to whom reference may be made, to arrive not later than Wednesday, 31st May, 1950.

Canvassing, directly or indirectly, will be a disqualification.

E. H. NICHOLS,

Town Clerk.

4220

**MIDDLESEX COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.**

QUANTITY SURVEYORS required. A.P.T. IX (£780-£950 p.a. inclusive). Established, subject to medical report. Should have considerable experience in taking-off and preparing Bills of Quantities, principally for educational buildings of various types. Application forms (stamped addressed foolscap envelope) from the County Architect, 10, Great George Street, S.W.1, to be returned not later than 27th May (quoting G.940 A.J.). Canvassing disqualifies.

C. W. RADCLIFFE,

Clerk of the County Council.

Guildhall, Westminster, S.W.1.

4196

BANFF COUNTY COUNCIL.

APPOINTMENT OF COUNTY ARCHITECT.

Applications are invited from Associate Members of the Royal Institute of British Architects for the appointment of County Architect. Considerable experience in Local Authority work, preferably of a County Council, is desirable. Salary £1,000 p.a., rising by annual increments of £50 to £1,150, with placing as may be determined, and travelling expenses in accordance with the County Scheme. The successful applicant will require to make his own arrangements for housing accommodation. The post is superannuable and the person appointed must satisfy a medical examination. Applications, stating age, qualifications and full particulars of experience, present position, and salary, should be sent with copies of two recent testimonials to the subscriber not later than 23rd May, 1950.

R. J. CUMMING,

County Clerk.

County Buildings, Banff.

**BRITISH ELECTRICITY AUTHORITY.
EASTERN DIVISION.**

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

ARCHITECTURAL ASSISTANT.

Commencing salary range £518-£636 per annum, including 5 per cent. London allowance.

Applicants should have had experience in the design and alteration of industrial buildings.

Initial salaries will be in accordance with previous experience and qualifications.

The salary is provisional, and will be subject to negotiation through the medium of the appropriate negotiating body.

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

Applications, stating age, experience, present position, and salary required, and endorsed "Architectural Assistant," should be submitted to arrive not later than 26th May, 1950, to the Divisional Controller, British Electricity Authority, Eastern Division, Northmet House, Southgate, N.14.

W. N. C. CLINCH,

Controller.

Northmet House, Southgate, N.14.

4225

**ROTHWELL URBAN DISTRICT COUNCIL
(YORKS).**

**APPOINTMENT OF TEMPORARY
ARCHITECTURAL ASSISTANT.**

Applications are invited for the appointment of temporary Architectural Assistant in A.P.T. Grade II, of the National Scale of Salaries (£420-£465). Preference will be given to applicants who have had practical experience in housing and general architectural work, and who are at present studying for the qualifying examinations of the Royal Institute of British Architects.

Applications, stating age, present and previous appointments, qualifications and experience, together with copies of three recent testimonials, must reach the undersigned not later than Thursday, 25th May, 1950.

ALLEN T. S. ROBERTSON,

Clerk of the Council.

Civic Buildings, Rothwell, Leeds.

4176

CWMBRAN DEVELOPMENT CORPORATION.

APPOINTMENT OF CHIEF ARCHITECT.

Applications are invited for the post of CHIEF ARCHITECT to the Cwmbran Development Corporation.

The Officer appointed will be under the general direction of the General Manager, and will be responsible for the work of his Department as indicated below.

Applicants must be Members of the Royal Institute of British Architects (a University Degree in Architecture and/or a Diploma in Town Planning would be desirable), and should have had experience in large scale development, including the design of layouts, houses and public buildings of all types, the supervision of building works and the control of staff.

The successful applicant will be responsible for the architectural work undertaken by the Corporation and for controlling any such work undertaken by other agencies in the development of the town.

Salary within the range of £1,500-£1,750 p.a., with a superannuation scheme.

Applications, stating particulars of age, education, qualifications, posts held, present salary, and the names of two referees, should be sent in an envelope marked "Private Application for Chief Architect," to reach the General Manager and Chief Executive Officer, Cwmbran Development Corporation, District Council Offices, Pontnewydd, Mon., on or before 20th May, 1950.

4214

**CITY OF OXFORD EDUCATION
COMMITTEE.**

**SCHOOLS OF TECHNOLOGY, ART AND
COMMERCE.**

**SCHOOL OF ARCHITECTURE AND
BUILDING.**

Applications are invited for the post of LECTURER AND STUDIO INSTRUCTOR.

Candidates must be Associates or Fellows of the R.I.B.A. or possess other appropriate professional qualifications. The salary will be in accordance with the Burnham Scale for Establishments for Further Education.

Forms of application and further particulars may be obtained from the Chief Education Officer, 77-79, George Street, Oxford, to whom completed forms must be returned not later than 14 days from the date of the appearance of this advertisement.

4213

CITY OF COVENTRY ARCHITECTURAL AND PLANNING DEPARTMENT. APPOINTMENT OF ASSISTANT ELECTRICAL ENGINEER.

Applications are invited for the permanent appointment to the post of Assistant Electrical Engineer, at a salary in accordance with Grade 1, A.P.T. Division (£520 to £570 per annum). Applicants must be suitably qualified, and have had a regular training in the following: Electrical Installation work with subsequent experience, preferably with a local authority, in the preparation of schemes, estimates, specifications and drawings for electrical installations; the supervision of work in progress, and in the final testing and certification of completed installations.

The successful applicant will be required to act as section deputy, and administrative experience is therefore essential.

The appointment will be terminable by one month's notice, and will involve contributions to the Superannuation Fund and to the Coventry Local Government Officers' Widows' and Orphans' Pension Fund. The appointment is also subject to a satisfactory report from the Council's medical referee.

The successful applicant will be expected to belong to an appropriate organisation as referred to in Paragraph 44 of the National Conditions of Service.

Forms of application may be obtained from 1a, Warwick Row, Coventry, and should be returned, completed, together, with copies of two recent testimonials, not later than Wednesday, 31st May, 1950.

D. E. E. GIBSON,
City Architect and Planning Officer.
1a, Warwick Row, Coventry. 4230

Partnership

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CONSULTING Civil Engineer (A.M.I.C.E., M.Stuct.E.) in own practice, having a staff of Qualified Assistants and with own large clientele, wants to enter into working Partnership with Architect's practice in London. Box 4182.

Architectural Appointments Vacant

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

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

ASSISTANT to Technical Editor of "The Architects' Journal"; qualifications required: Interested in building construction, R.I.B.A. Inter. standard, or equivalent qualifications; experience in architect's or builder's office an advantage. Replies to Cotterell Butler, 9-13, Queen Anne's Gate, S.W.1. 492

STUDENT or JUNIOR ARCHITECT for editorial work; applicants to have a bias towards building technology and the science of building; salary according to qualifications and experience. Box 493.

ARCHITECTS require SENIOR ASSISTANT, with good office experience; salary £500-£650, according to experience; permanent; excellent prospects. Stephenson & Gillis, 2, Saville Chambers, Newcastle-on-Tyne. 4096

ASSISTANT QUANTITY SURVEYOR required in professional office in South Devon; capable of preparing bills, valuations and dealing with contractors' accounts for housing schemes. State age, experience, and salary required. Box 4104.

EXPERIENCED SENIOR ARCHITECTURAL ASSISTANT, with practical experience in layout of Brewery and Food Production Plant; sound knowledge of Industrial Building Construction essential and ability to prepare schemes and supervise work. Reply, stating age, qualifications, experience, present and previous appointments, and duration, and salary required. The appointment is permanent and pensionable, subject to completion of satisfactory probation period. Box 4073.

ARCHITECTURAL ASSISTANTS required immediately; good salary and prospects; 5-day week. Write to Messrs. J. M. Sheppard & Partners, 38, Bedford Place, W.C.1, giving particulars of age, qualifications, experience, and salary required. 4081

YOUNG ASSISTANT, interested in Ecclesiastical work required in private East Midlands office; student considered. Full particulars to Box 4167.

SENIOR fully qualified ASSISTANT required by East Midland office with post-war experience in School or Hospital work; responsible position—familiar with latest constructional methods; in reply please state age, salary and experience; small flat available. Box 4166.

EDITORIAL ASSISTANT required for architectural journal. Applicants should be interested in current building problems, capable of understanding working drawings, and with a good command of English. Box 510.

SENIOR ARCHITECTURAL ASSISTANT required; able to supervise group of contracts. Apply in confidence, stating experience and salary required to W. H. Ansell, F.R.I.B.A., and Arthur Bailey, O.B.E., F.R.I.B.A., 5, Verulam Buildings, Grays Inn, W.C.1. 4197

THE CO-OPERATIVE WHOLESALE SOCIETY, LTD., invite applications for the following appointments on the staff of the Manchester Architect's Department:—

THREE ASSISTANT ARCHITECTS. Salary £510-£625 per annum. Applicants, suitably qualified, are required to have a sound knowledge of construction and architectural design, and be able to produce sketch plans, working drawings and details from rough sketches with the minimum of supervision.

ONE LAND AND BUILDING SURVEYOR. Salary £400-£465 per annum. Applicants should be experienced in surveying sites and buildings, possess a sound knowledge of building construction, and be capable of preparing survey drawings.

The appointments are permanent and offer prospects of up-grading to competent Assistants. Successful candidates will be required to undergo a medical examination for entry into compulsory superannuation scheme.

Applications, stating age, experience and qualifications, to be addressed to:—The Chief Architect, Co-operative Wholesale Society, Ltd., 1, Balloon Street, Manchester, 4. 4123

A CAPABLE ARCHITECTURAL ASSISTANT (A.R.I.B.A.) is sought by firm of Chartered Surveyors with well established building practice, with a view to Partnership in a few years; sound knowledge of L.B.A. and good personality essential. Write details of age, experience, and initial salary required, to Box 4178.

WANTED.—First-class SENIOR ARCHITECTURAL ASSISTANT; good draughtsman and working drawings; salary £500-£750 p.a. JUNIOR ASSISTANT, £250-£350, according to ability. Apply Howard Leicester, F.R.I.B.A., 21, Bloomsbury Square, London, W.C.1. MUS. 0030. 4187

ARCHITECT'S ASSISTANT required on Staff of Architect's Dept. of large London Brewery; Inter. R.I.B.A. standard; five-day week; design and construction of new and alterations to existing public houses in London; R.I.B.A. scale salary. Box 4189.

QUALIFIED ASSISTANT, A.R.I.B.A. preferred, required for general practice, Isle of Wight; capable of taking complete charge of office; Partnership considered for suitable applicant; salary £500-£700, according to experience, etc. Write full particulars of qualifications and experience to V. Aldridge, F.R.I.B.A., 35a, St. James Street, Newport, I.W. 4195

ARCHITECTURAL ASSISTANT required, with general experience of industrial buildings; Intermediate-Final standard; salary about £400 per annum according to qualifications. Please write, stating experience and full particulars, to Leonard J. Multon, F.R.I.B.A., 147, Corporation Street, Birmingham, 4. 4199

A CAPABLE ASSISTANT wanted immediately for Architect's private office in the Westminster area; must be a quick and accurate draughtsman, capable of supervising contracts from sketch plan to final stage; a permanent post, with good prospects for the right applicant. Write in confidence stating age, experience, and salary required, to Box 4201.

ARCHITECTURAL ASSISTANT required by Oil Company operating in the Persian Gulf, etc. Write, giving brief details for application form and quote K.102, to Box "T.M.", c/o J. W. Vickers & Co., Ltd., 7/8, Great Winchester Street, E.C.2. 4169

ARCHITECTURAL ASSISTANT urgently required in Architect's office in London with varied practice; opportunity to work on own initiative. Please reply, stating age, experience, and salary required, to Box 4204.

A CAPABLE ASSISTANT required; supervision of staff; specifications and good draughtsmanship essential; salary according to experience. Full particulars to H. S. W. Stone & Partners, F.R.I.B.A., 20, The Crescent, Taunton. 4206

ASSISTANT, with at least 5 years' office experience, required to work on modern schools and flats; salary according to experience, plus profit-share. Culpin & Son, 3, Southampton Place, W.C.1. Holborn 0163. 4217

WANTED, in busy Central London private office, qualified Associate R.I.B.A. ARCHITECT'S ASSISTANT; capable of taking complete charge of works, but under general direction; age about 30/35; salary £600 to £800 p.a., according to experience. Write full particulars to Box 4218.

ESTABLISHED London Firm, with extensive and varied practice, requires services of young qualified ASSISTANT; salary according to ability; advancement and eventual Partnership assured to young man of energy and integrity. Box 4221.

Architectural Appointments Wanted

ASSISTANT, of Intermediate standard, 4 years' experience, age 22, requires position in progressive office, preferably in London. Box 506.

CORNWALL.—I.R.I.B.A. requires post in Cornwall; extensive experience housing, public buildings; knowledge quantities, management of contracts. Box 518.

A R.I.B.A., 20 years' continuous experience—mainly commercial and factory—desires a position of responsibility, preferably in the London area; salary £800 p.a. Box 514.

LITHUANIAN (40), ARCHITECTURAL ASSISTANT, with degree in Survey and Structural Engineering, requires post in London area with scope; at present employed with Hertfordshire chartered architects and surveyors. Box 513.

ASSISTANT, taking Inter. in May, seeks post; preferably South Devon, but not essential; 4 years' office experience. Box 515.

PLYMOUTH.—ARCHITECTURAL ASSISTANT (28) requires position in Plymouth; studying special Final; experienced in industrial, agricultural, housing and general design, specifications, some surveying; salary £500. 503

ARCHITECTURAL ASSISTANT (32) requires responsible position; practical draughtsman, with 15 years' general experience in design; used to taking complete charge of jobs; South Coast preferred. Box 516.

OVERSEAS appointment wanted as ARCHITECTURAL ASSISTANT or similar; anywhere in His Majesty's Colonies; age 24 years; experience: town planning, housing, health, surveys, measurement of buildings, alterations and extensions, specifications, and general procedure; 3½ years' private practice, 4 years' local government, 3 years' college training; preparing for Inter. R.I.B.A.; am very keen to accept responsibility; present salary £500 per annum. Box 517.

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.

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

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TECHNICAL ASSISTANT required by Architectural Publishers; must have first-hand practical knowledge of the building industry; salary according to qualifications and experience. Box 494.

ASSISTANT SURVEYOR required in busy office of Architects and Surveyors in London; knowledge of war damage, dilapidations and general building repairs and alterations, and able to act on own initiative in the supervision of work in progress. Please write, stating age, experience, and salary required, to Box 4203.

BUILDING ASSISTANT AND DRAUGHTSMAN required for factory maintenance staff, Huntley & Palmers, Ltd., Reading; applicant should be a good draughtsman, with some knowledge of quantities and estimating; five-day week; commencing salary up to £468, according to age and experience. Apply to the Clerical Manager. 4222

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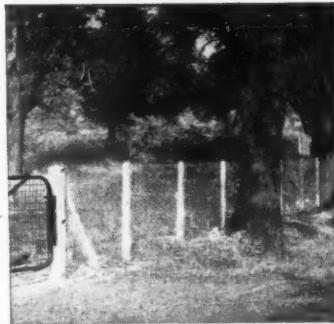
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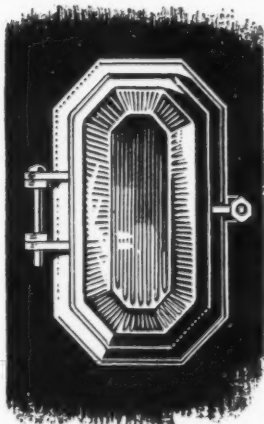
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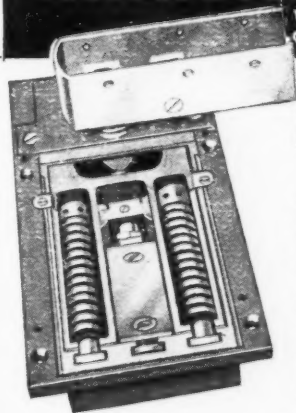
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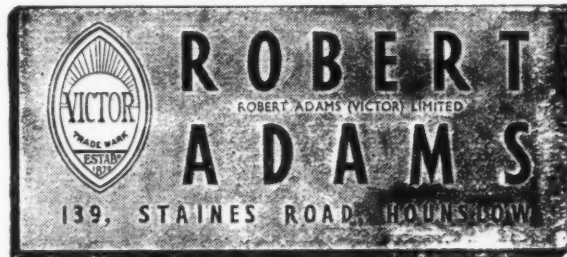


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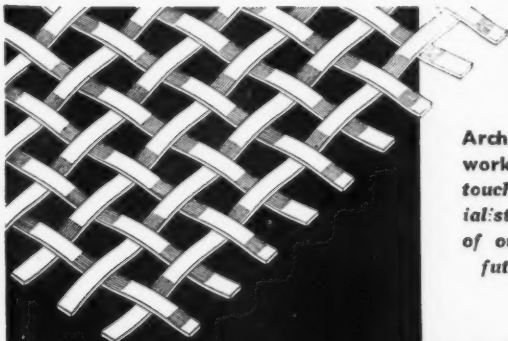
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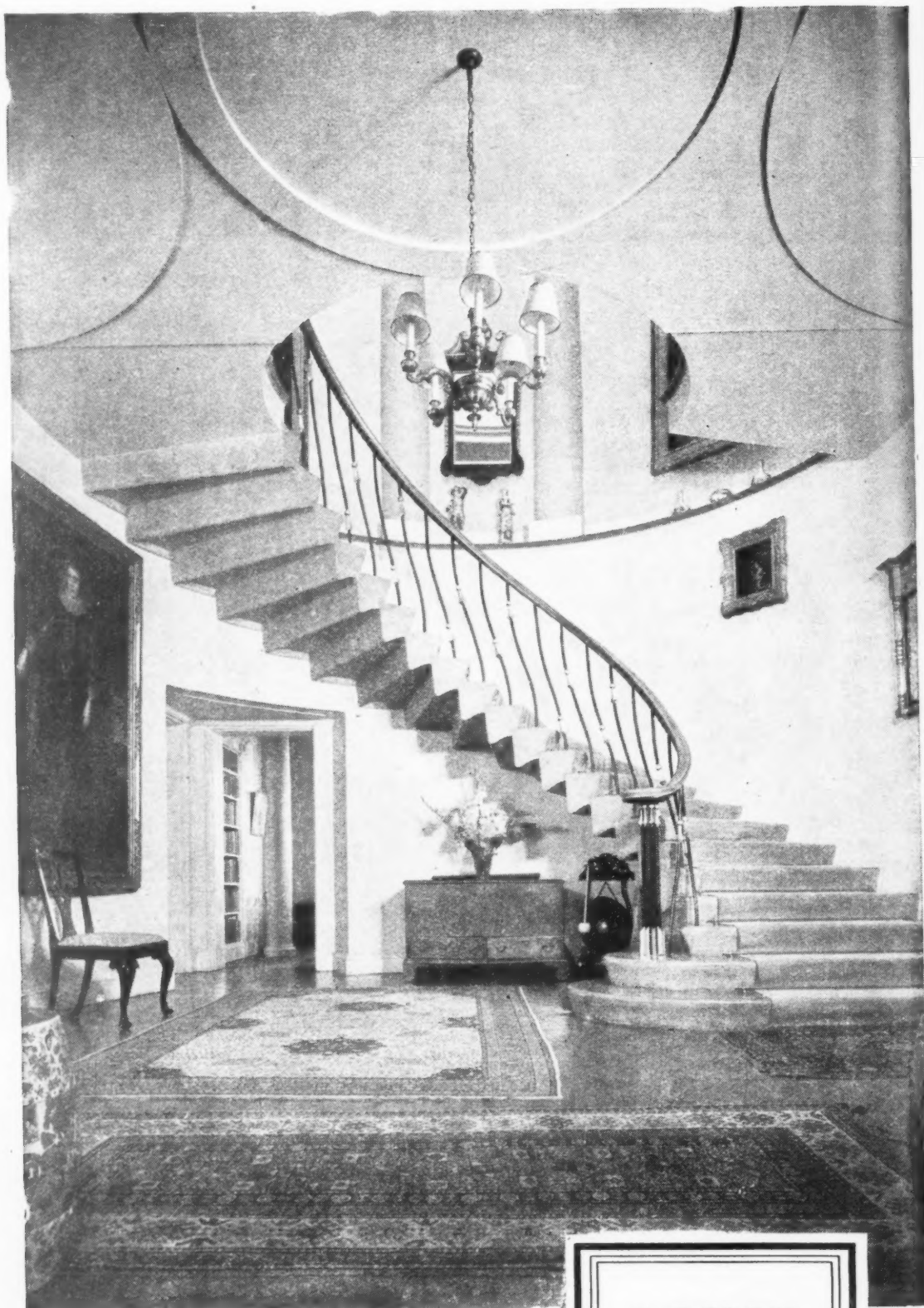
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