

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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PHYSICAL PLANNING SUPPLEMENT

CURRENT BUILDINGS

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Wanted and Vacant

No. 2974]

[Vol. 115

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

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 3158/1601
IIBD	Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.1.	Euston 2450
ILA	Institute of Landscape Architects. 12, Gower Street, W.C.1.	Museum 1783
I of Arb.	Institute of Arbitrators, 35/37, Hastings House, 10, Norfolk Street, Strand, W.C.2.	Temple Bar 4071
IOB	Institute of Builders. 48, Bedford Square, W.C.1.	Museum 7197/5176
IR	Institute of Refrigeration. Dalmeny House, Monument Street, E.C.3.	Avenue 6851
IRA	Institute of Registered Architects. 47, Victoria Street, S.W.1.	Abbey 6172
ISE	Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1.	Sloane 7128
IWA	Inland Waterways Association. 11, Gower Street, W.C.1.	Museum 9200
LIDC	Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1.	Whitehall 7264/4175
LMBA	London Master Builders' Association. 47, Bedford Square, W.C.1.	Museum 3891
MARS	MARS Group (English Branch of CIAM). Secretary: Gontran Goulden, Building Centre, 26, Store Street, W.C.1.	Museum 5400
MOA	Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1.	Whitehall 3400
MOE	Ministry of Education. Curzon Street House, Curzon Street, W.1.	Mayfair 9400
MOH	Ministry of Health. 23, Saville Row, W.1.	Regent 8411
MOHLG	Ministry of Housing and Local Government. Whitehall, S.W.1.	Whitehall 4300
MOLNS	Ministry of Labour and National Service, 8, St. James's Square, S.W.1.	Whitehall 6200
MOS	Ministry of Supply. Shell Mex House, Victoria Embankment, W.C.	Gerrard 6933
MOT	Ministry of Transport. Berkeley Square House, Berkeley Square, W.1.	Mayfair 9494
MOW	Ministry of Works. Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalte Mine-Owners and Manufacturers Council. 94-98, Petty France, S.W.1.	Abbey 1010
NAS	National Association of Shopfitters. 9, Victoria Street S.W.1.	Abbey 4813
NBR	National Buildings Record. 37, Onslow Gardens, S.W.7.	Kensington 8161
NCBMP	National Council of Building Material Producers. 10, Princes Street, S.W.1.	Abbey 5111
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street, W.1.	Langham 4041/4054
NFBTO	National Federation of Building Trades Operatives, Federal House, Cedars Road, Clapham, S.W.4.	Macaulay 4451
NFHS	National Federation of Housing Societies. 13, Suffolk St., S.W.1.	Whitehall 1693
NHBRC	National House Builders Registration Council. 82, New Cavendish Street, W.1.	Langham 4341
NPL	National Physical Laboratory. Head Office, Teddington.	Molesey 1380
NSA	National Sawmilling Association, 14, New Bridge Street, E.C.4.	City 1476
NSAS	National Smoke Abatement Society. Chandos House, Buckingham Gate, S.W.1.	Abbey 1359
NT	National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.1.	Whitehall 0211
PEP	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1.	Whitehall 7245
RCA	Reinforced Concrete Association. 94, Petty France, S.W.1.	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
RICS	Royal Institution of Chartered Surveyors, 12, Great George St., S.W.1.	Whitehall 5322/9242
RFAC	Royal Fine Art Commission. 22A, Queen Anne's Gate, S.W.1.	Whitehall 3935
RS	Royal Society. Burlington House, Piccadilly, W.1.	Regent 3335
RSA	Royal Society of Arts. 6, John Adam Street, W.C.2.	Trafalgar 2366
RSI	Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1.	Sloane 5134
RIB	Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19.	Wimbledon 5101
SBPM	Society of British Paint Manufacturers. Grosvenor Gardens House, Grosvenor Gardens, S.W.1.	Victoria 2186
SCR	Society for Cultural Relations with the USSR. 14, Kensington Square, London, W.8.	Western 1571
SE	Society of Engineers. 17, Victoria Street, Westminster, S.W.1.	Abbey 7244
SFMA	School Furniture Manufacturers' Association. 30, Cornhill, London, E.C.3.	Mansion House 3921
SIA	Structural Insulation Association. 14, Moorgate, London, E.C.2.	Central 4444
SIA	Society of Industrial Artists. 7, Woburn Square, W.C.1.	Langham 1984
SNHTPC	Scottish National Housing. Town Planning Council. Hon. Sec., Robert Pollock, Town Clerk, Rutherglen, W.C.1.	Holborn 2646
SPAB	Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.	Temple Bar 5006
TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.	City 4771
TDA	Timber Development Association. 21, College Hill, E.C.4.	Sloane 4554
TGC	The Gas Council. 1, Grosvenor Place, S.W.1.	Victoria 8815
TPI	Town Planning Institute. 18, Ashley Place, S.W.1.	City 4444
TTF	Timber Trades Federation. 69, Cannon Street, E.C.4.	Mayfair 8866
WDC	War Damage Commission. Devonshire House, Mayfair Place, Piccadilly, W.1.	Victoria 5783
WEDA	Welfare Equipment Development Association. 74, Victoria St., S.W.1.	Oxford 47988
ZDA	Zinc Development Association. Lincoln House, Turl Street, Oxford.	



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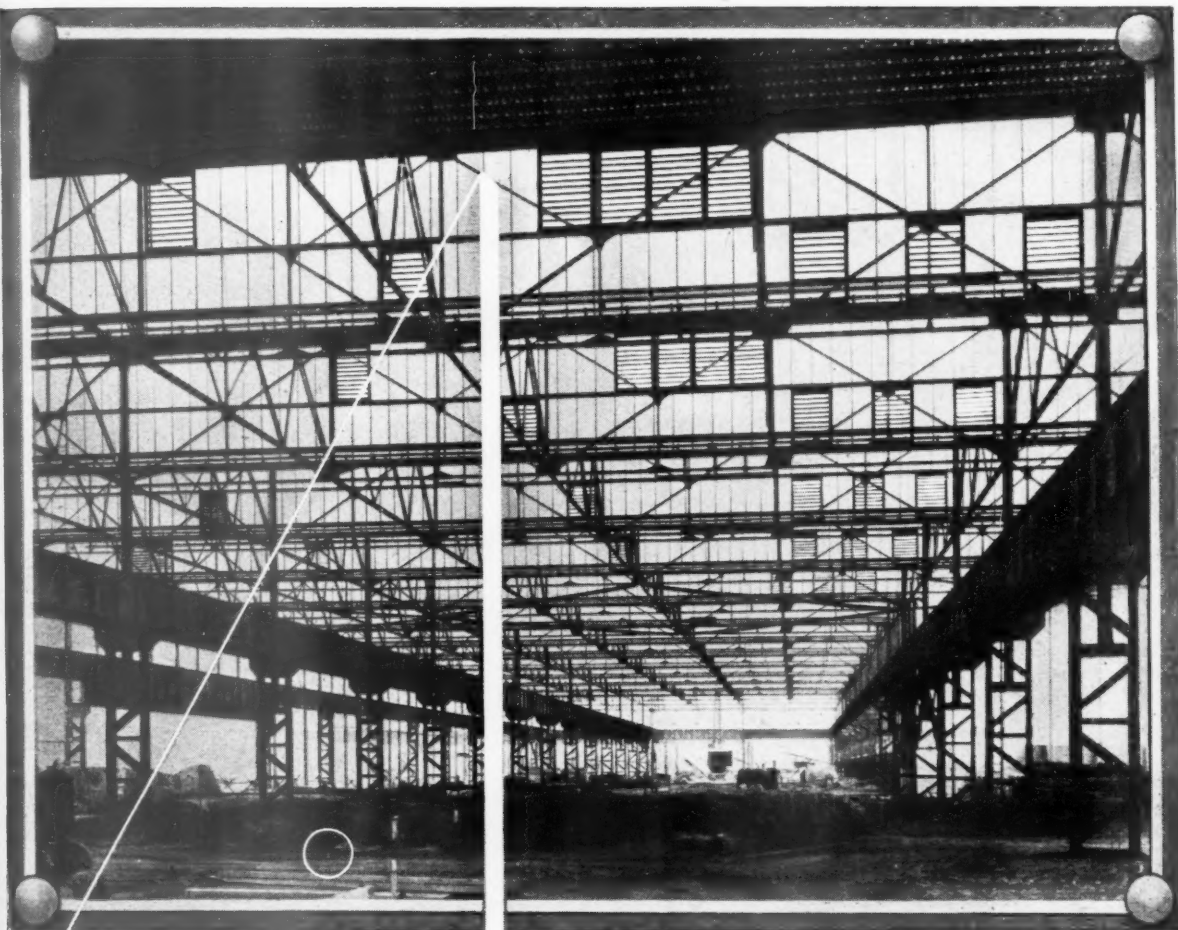
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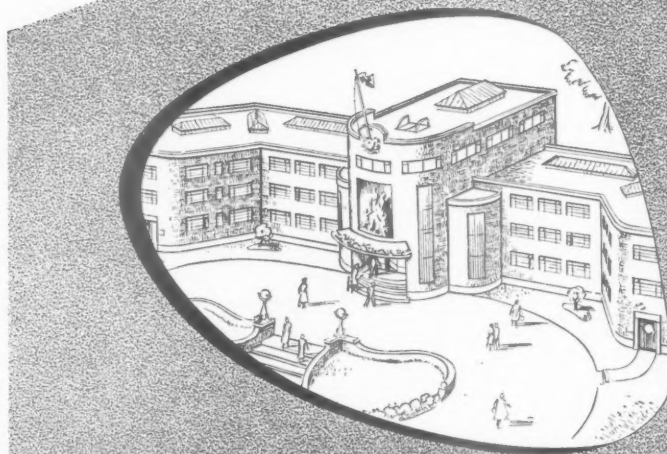
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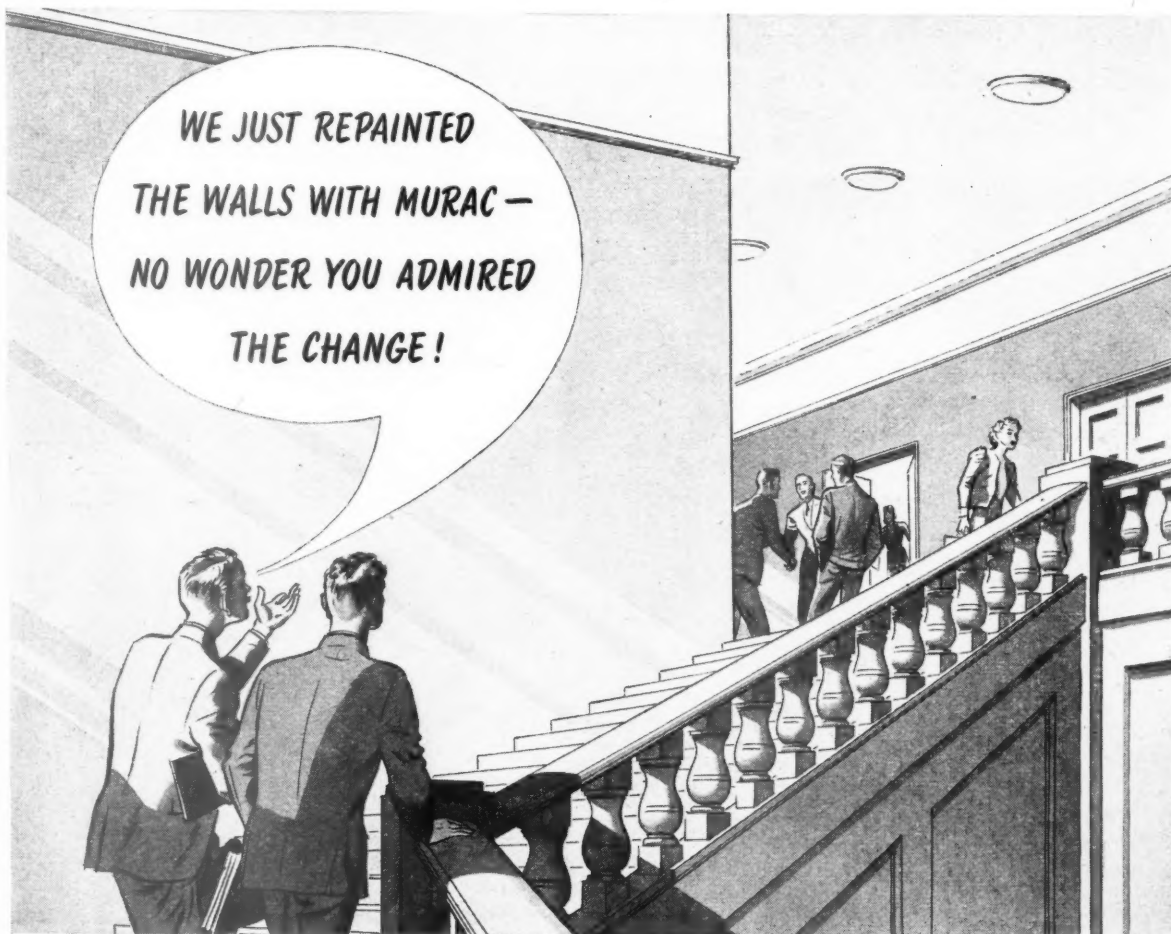
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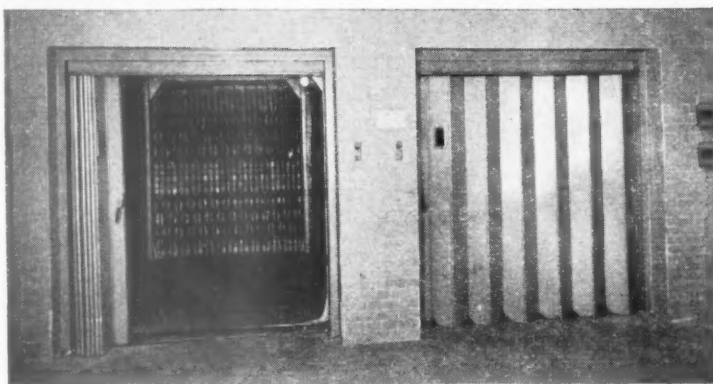
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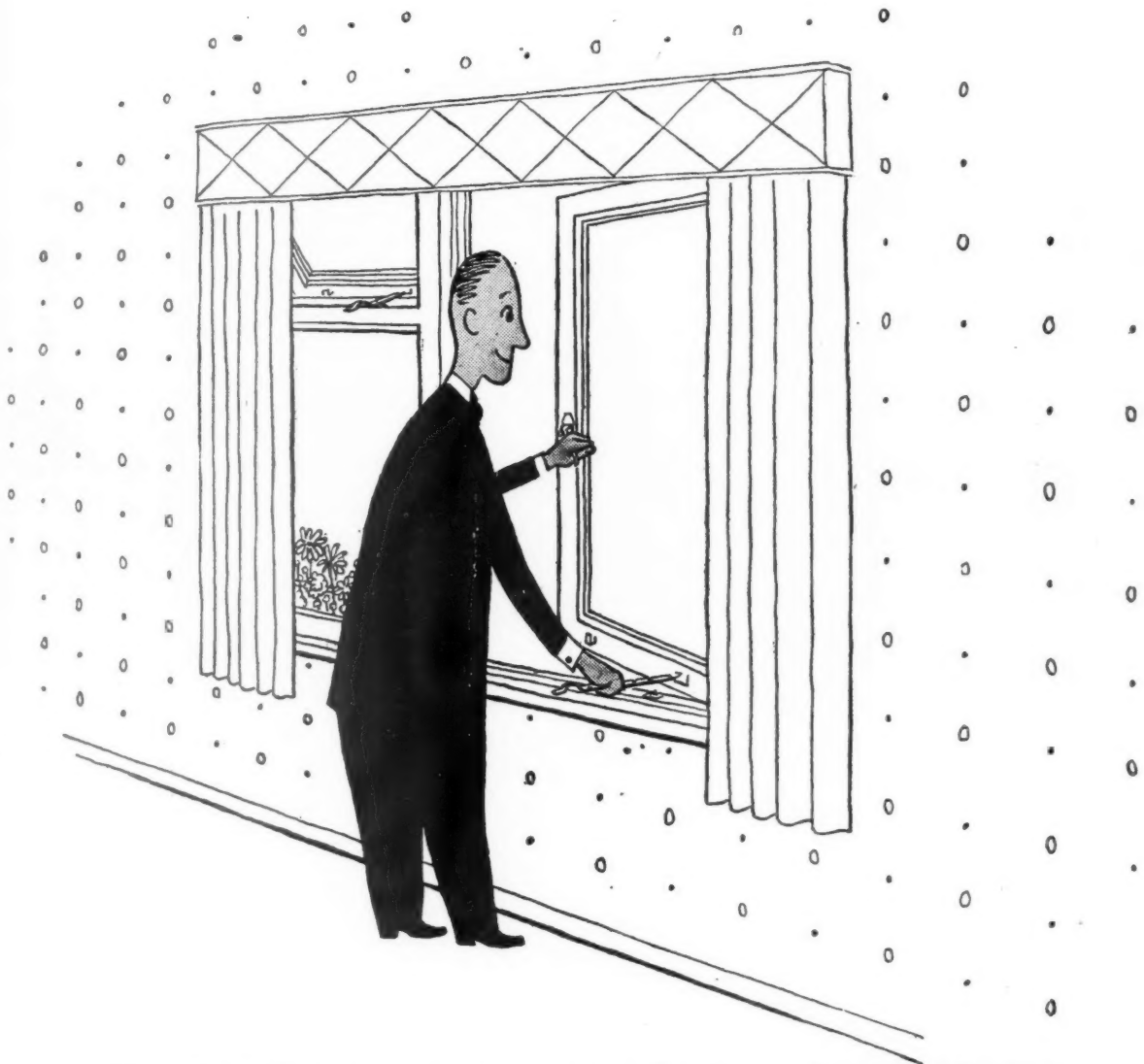


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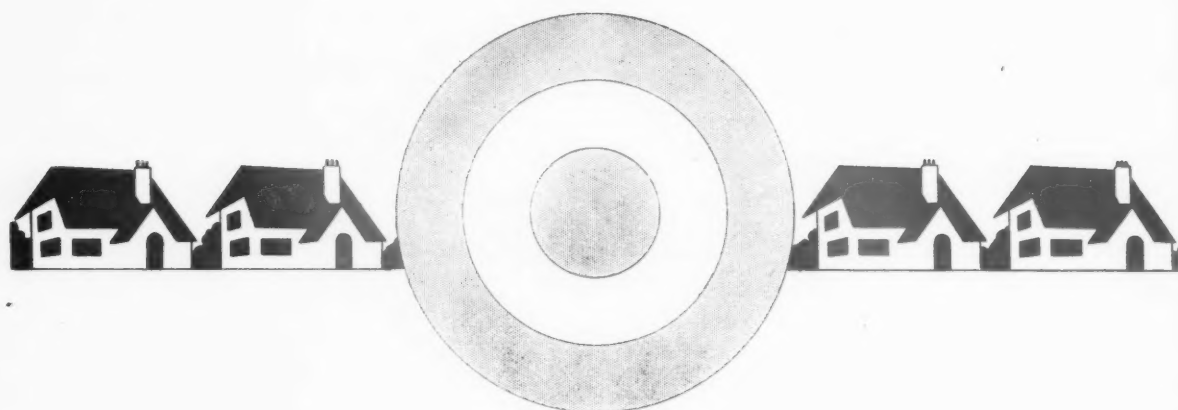
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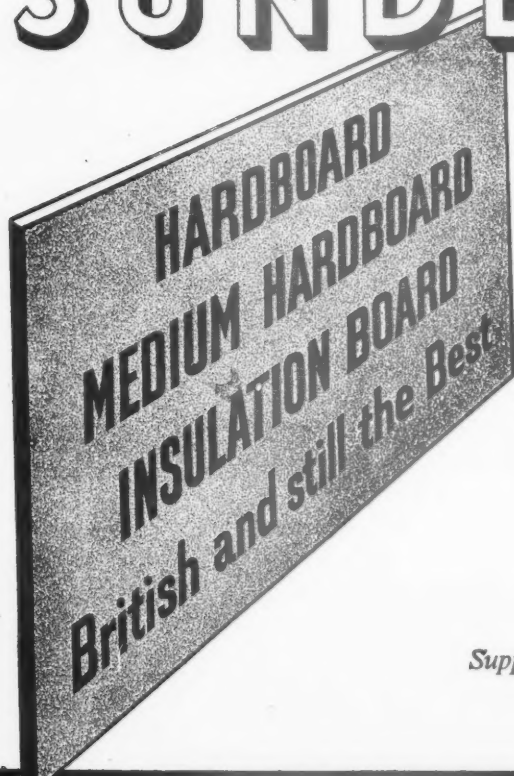
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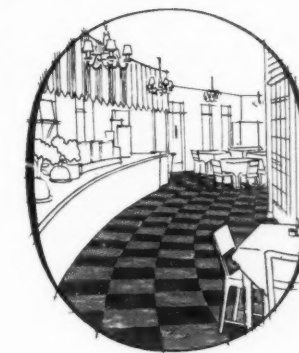
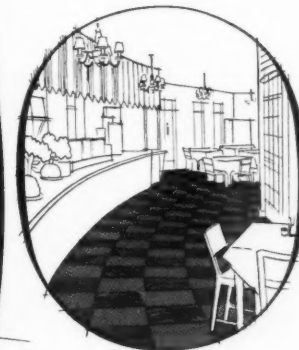
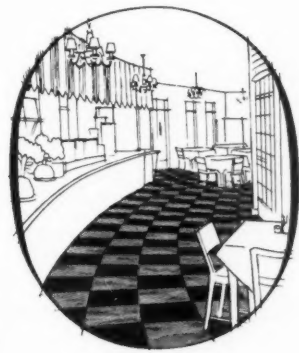
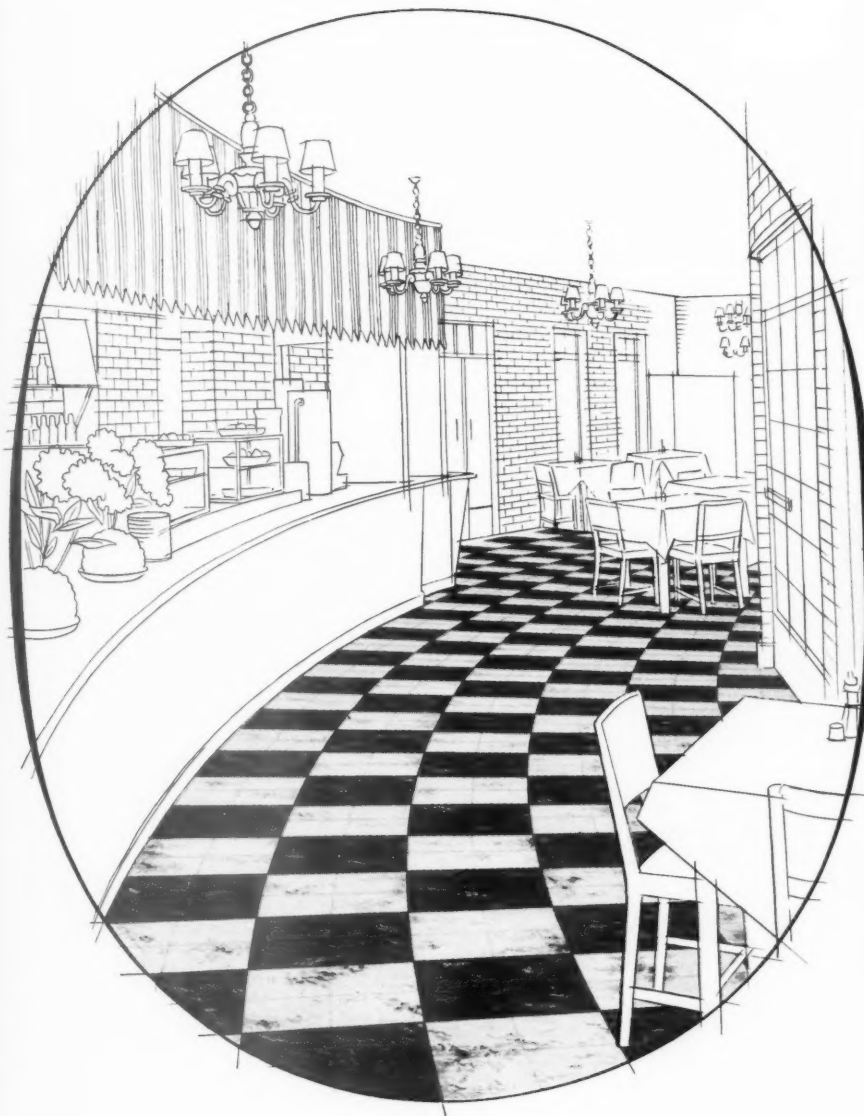
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GLASGOW: BALTIC CHAMBERS · 50 WELLINGTON STREET C2 — NEWCASTLE-UPON-TYNE: NORTHUMBRIA HOUSE · PORTLAND TERRACE 2



THIS IMPRESSION OF A TEA BAR has been drawn in black and white, with only the floor coloured, to show how effectively Semastic Decorative Tiles may be treated as the foundation of the interior colour scheme. The smaller sketches suggest three more ways in which the wide and well-balanced colour range may be used. But the decorative aspect is only one of the features of Semastic Decorative Tiles which have established their reputation as "thermoplastic tiles at their best". The manufacturers invite your consideration of these tiles against any comparable floor finishes from the point of view of comfort under foot, wearing qualities, or any other test.

SEMASTIC DECORATIVE TILES

A PRODUCT OF A DUNLOP COMPANY

SERVICE THROUGH SKILL

It cannot be sufficiently emphasised that tiles alone do not make a floor, and that even the best material can fail in performance unless it is handled by skilled craftsmen. For this reason the installation of Semastic Decorative Tiles is restricted to the following Approved Contractors who offer a countryside service of the highest standard available in the industry.

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Tygan synthetic woven fabric is rapidly winning a reputation as the most hygienic, efficient and economical upholstery material for catering establishments. It has much to commend it. Tygan is washable and a wipe over with a damp cloth will keep it spotlessly clean, and free from stains. It will withstand continuous hard wear and is proof against moth. In addition, Tygan is available in many attractive designs and the sparkling colours are all fast to light.



Fothergill & Harvey Limited HARVESTER HOUSE, PETER STREET, MANCHESTER 2

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★ The television masts at Holme Moss and Sutton Coldfield both rest on a 2" steel ball.

Inset Photography courtesy British Insulated Callender's Cables Ltd.

BALANCE

The design and construction of a television transmitting mast entails, among other things, an expert knowledge of the principles of balance.

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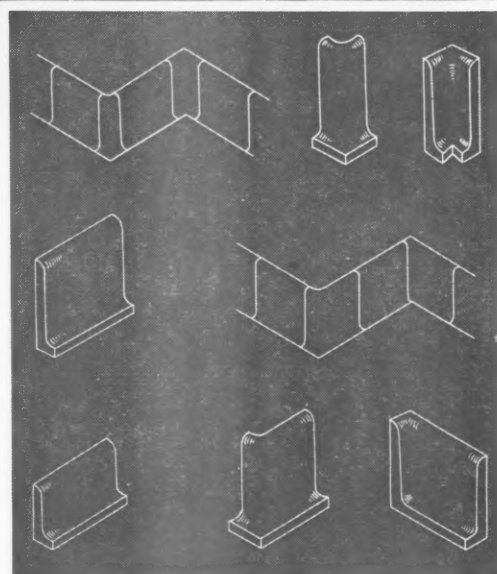


Timber allocations may be 'stretched' by dispensing with wooden skirtings. A wide range of fittings enables the smooth, dense, colourful surface of Clay Quarry flooring to be continued up to, or beyond skirting height. Floors so treated are rendered completely vermin-proof, and may be kept clean with the minimum of attention. Further, this form of skirting withstands really rough treatment, and eliminates painting.

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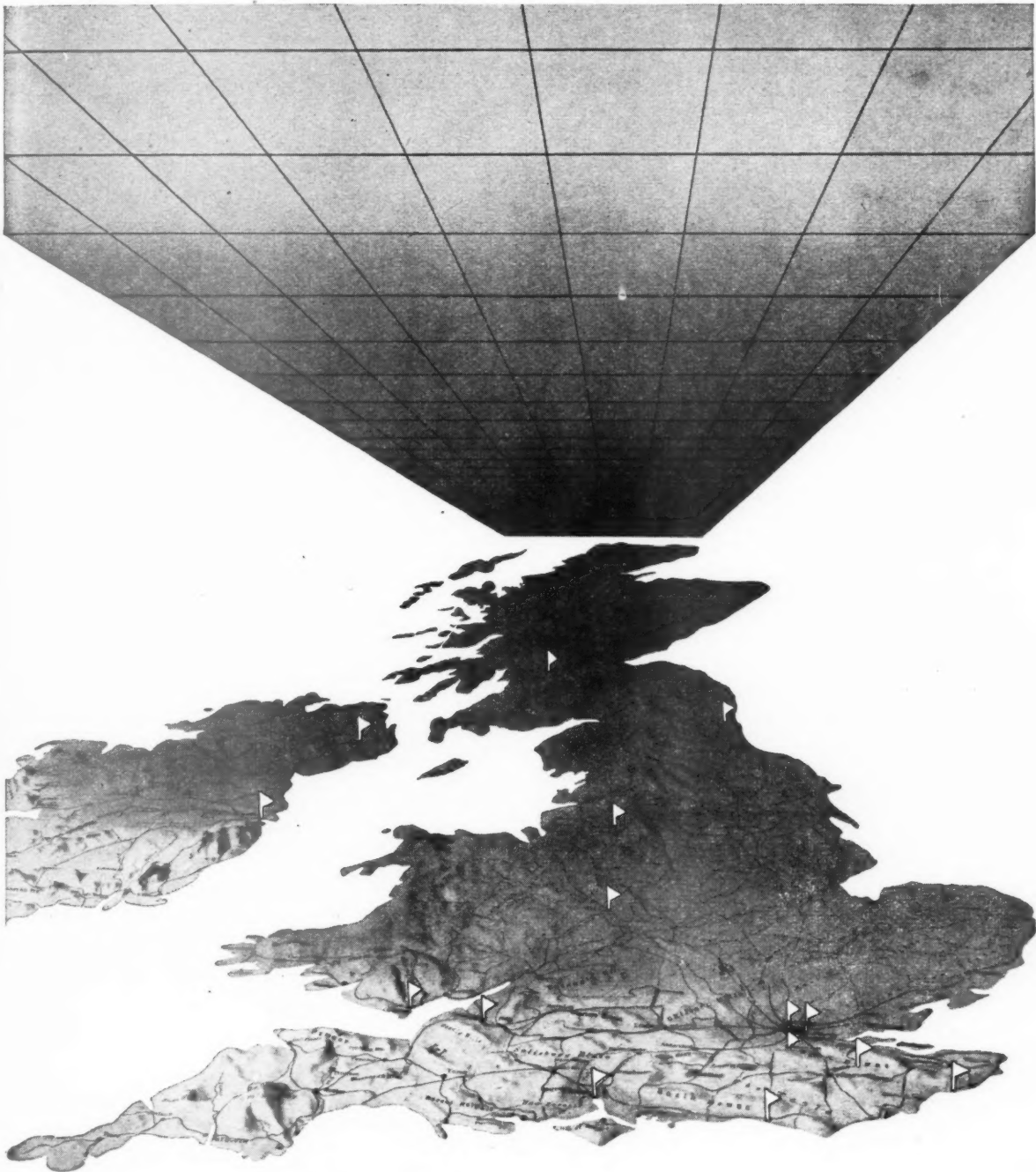
For further information, please write to The Secretary, Floor Quarry Association, Federation House, Stoke-on-Trent.



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MANCHESTER: Beaumonts (Manchester) Ltd., Victoria Park.
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*Paton & Baldwin Ltd. Canteen—Darlington
Photograph by courtesy of Paton & Baldwin
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NOWADAYS the works canteen often serves a dual purpose and for that reason permanent furniture is undesirable. When the last meal is served as likely as not preparations will commence for an evening concert or maybe a staff dance. In these circumstances Kingfisher space-saving furniture is the perfect answer. Strong, light and easy-to-handle it facilitates re-arrangement, removal and stacking in a matter of minutes and at the same time provides that degree of comfort which is looked for in furniture of a more permanent character.

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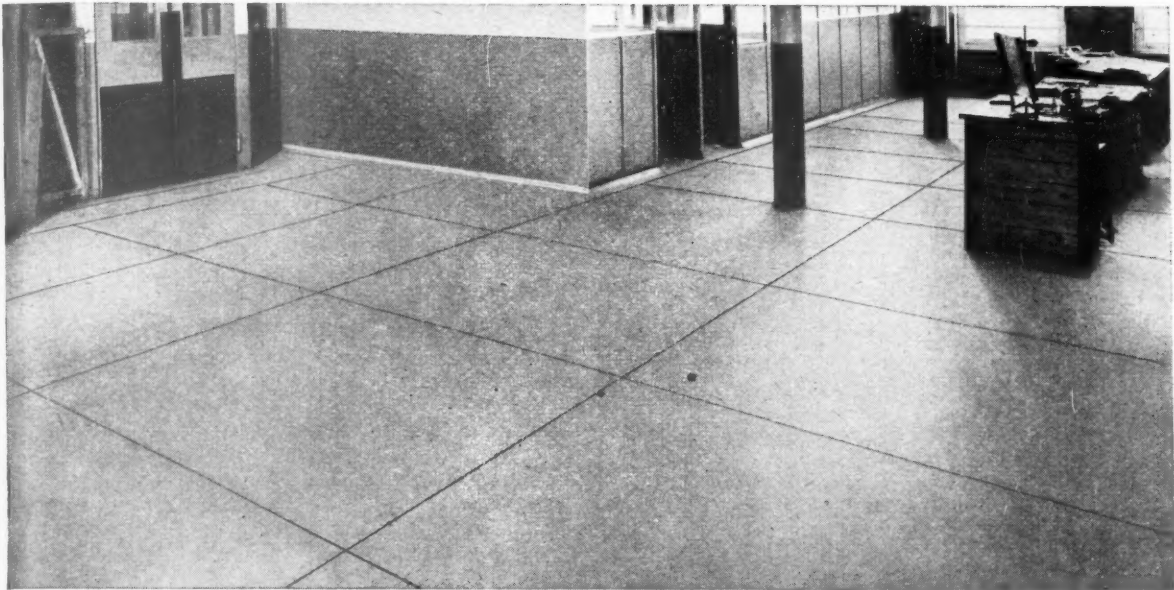


Kingfisher



CANTEEN FURNITURE AND EQUIPMENT

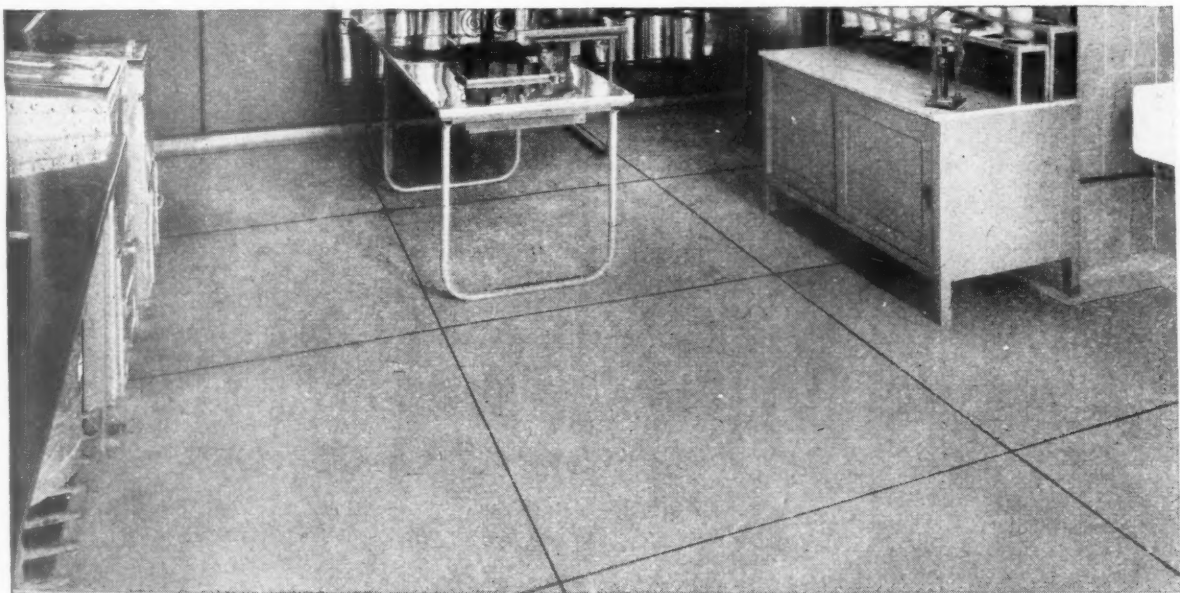
KINGFISHER LIMITED. Charles Street and Phoenix Street, West Bromwich, Staffs. Phone: Tipton 1631. Grams: Kingfisher, Phone, West Bromwich
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both in the factory and offices, and Marbolith was chosen because of its ability to stand continuous heavy wear including truck traffic, for its comfort under foot, and for its ease of cleaning—an essential feature in a factory of this kind.



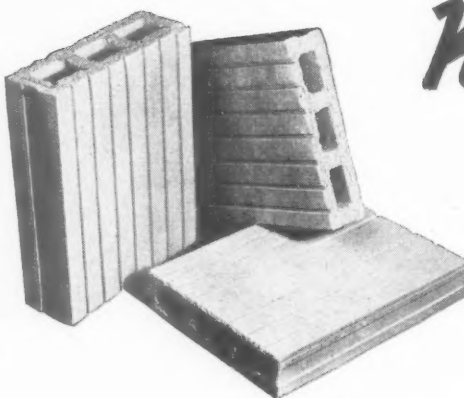
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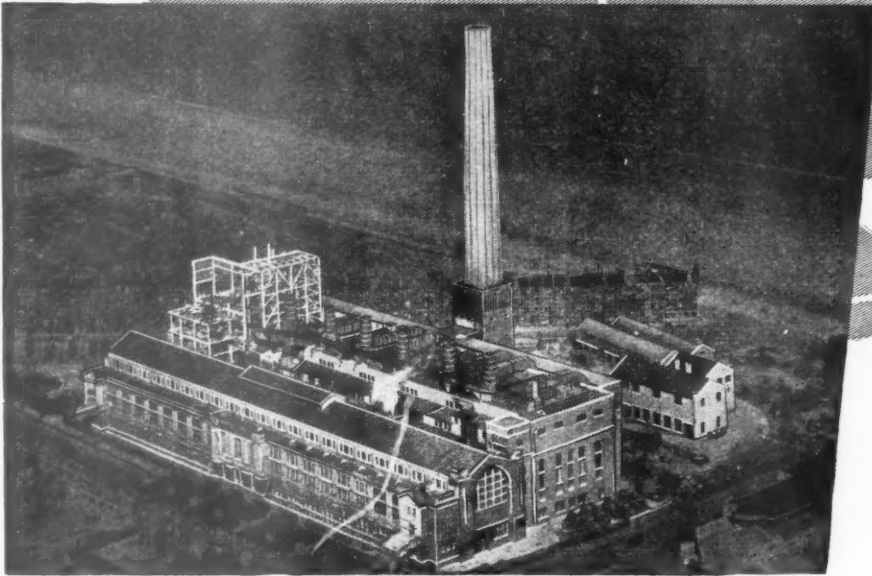
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CELLACTITE BUILDING PRODUCTS

TAB/Cel.419

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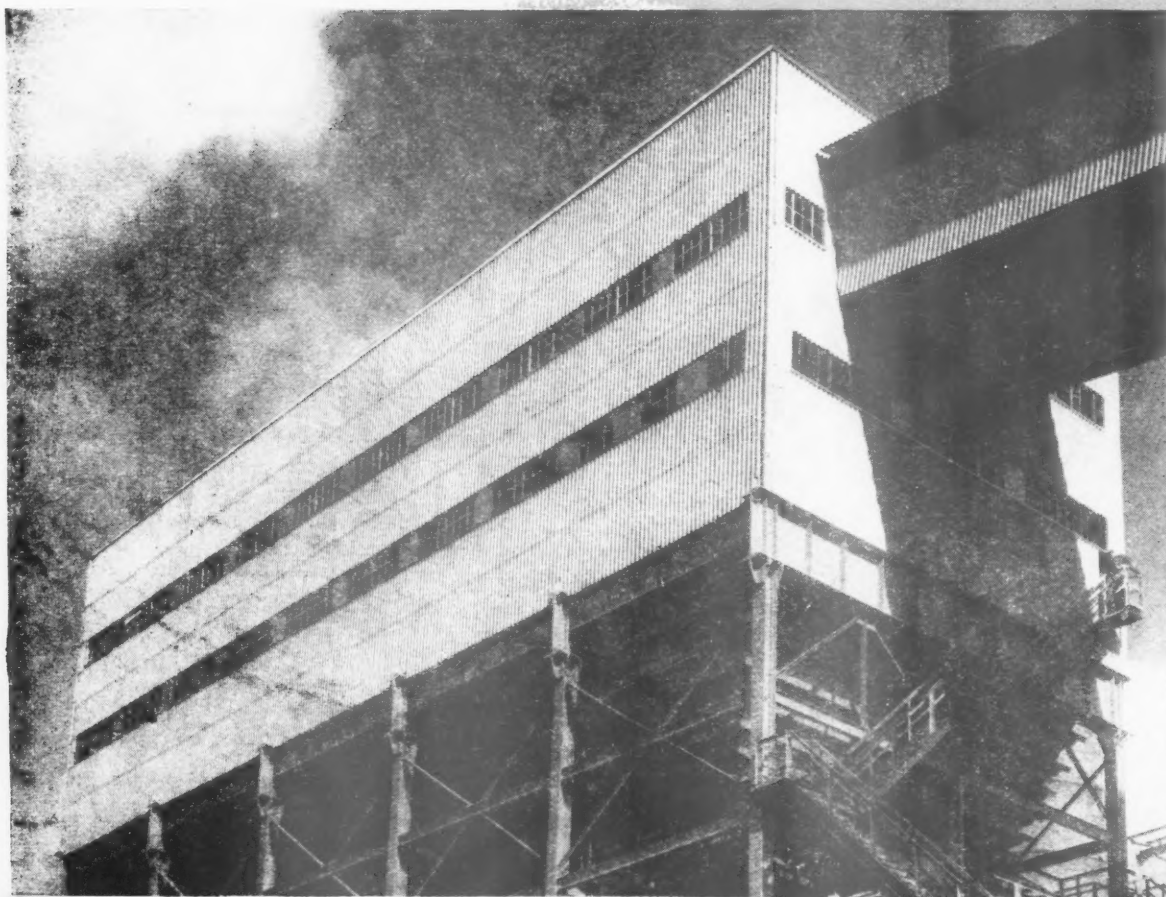
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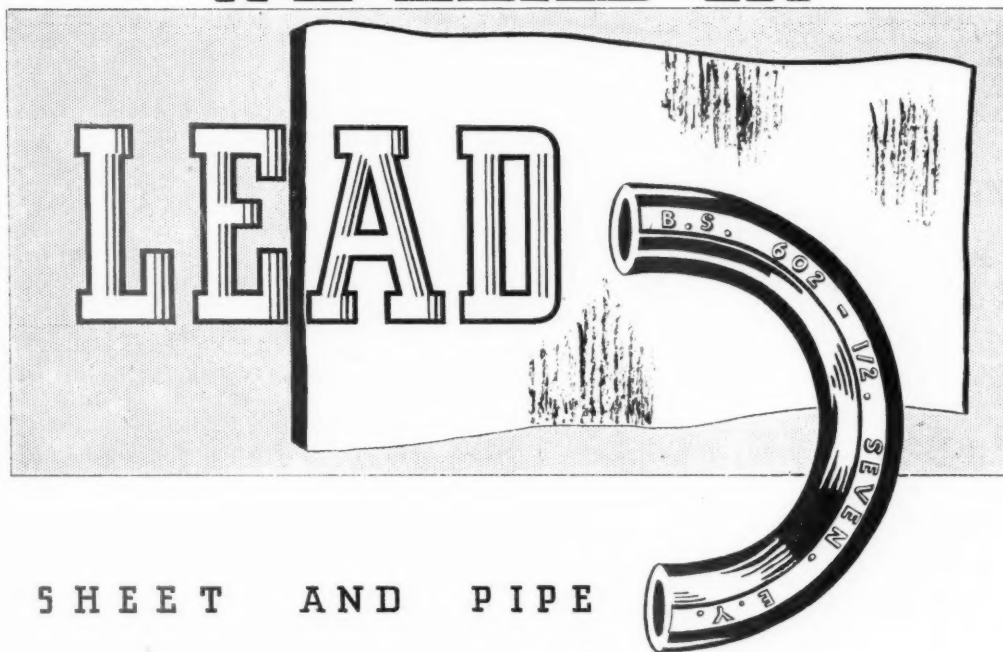
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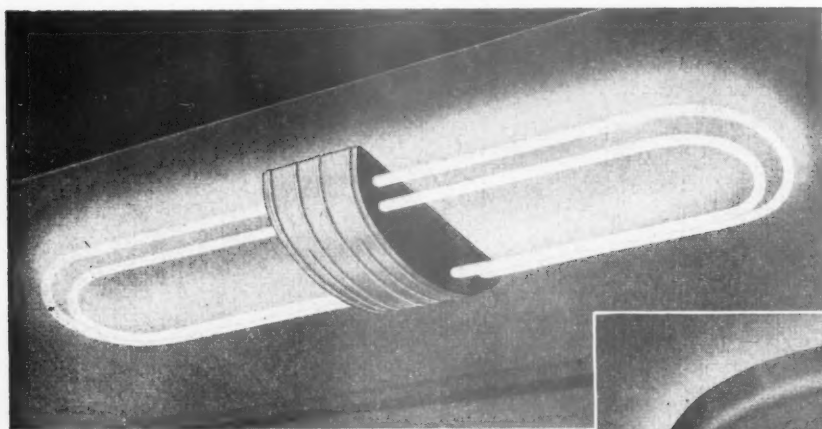
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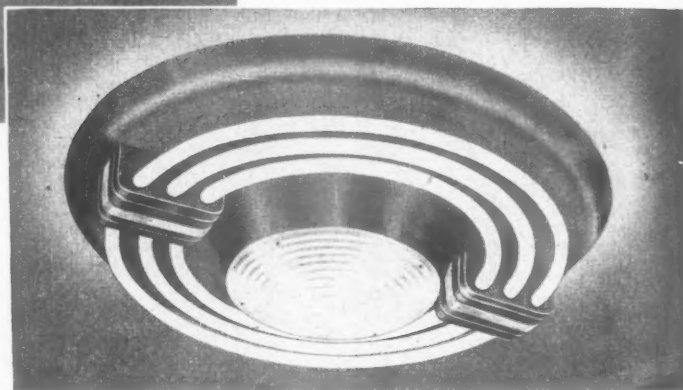


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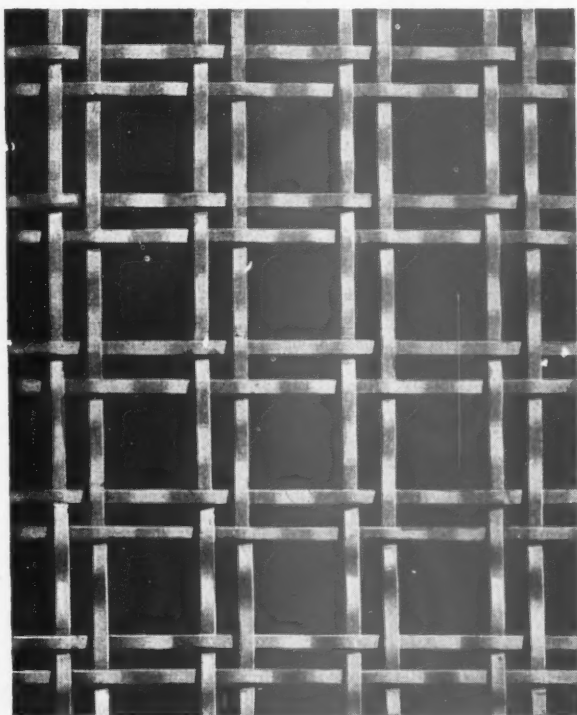
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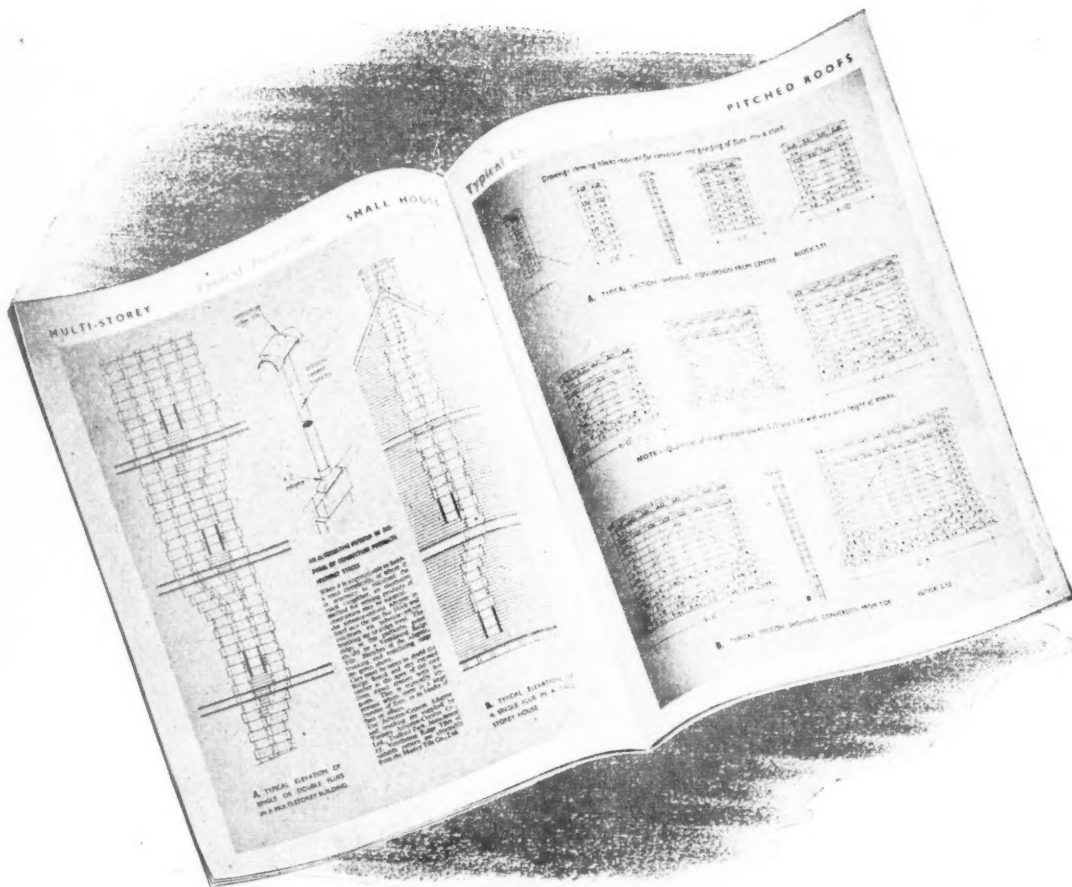


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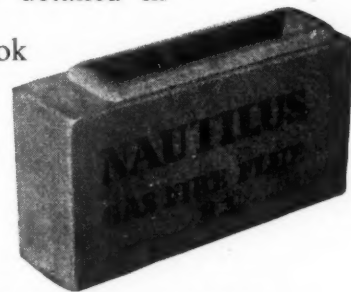
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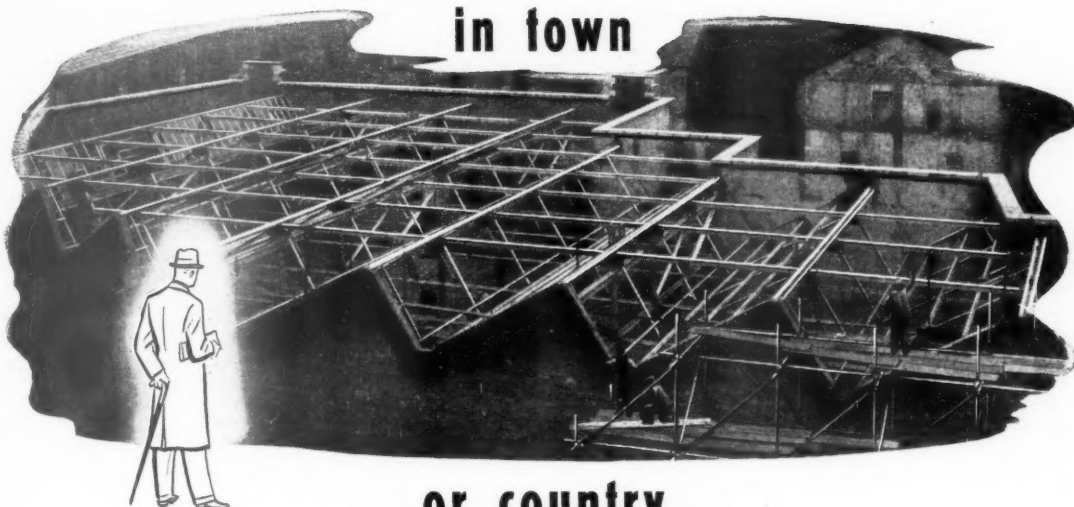
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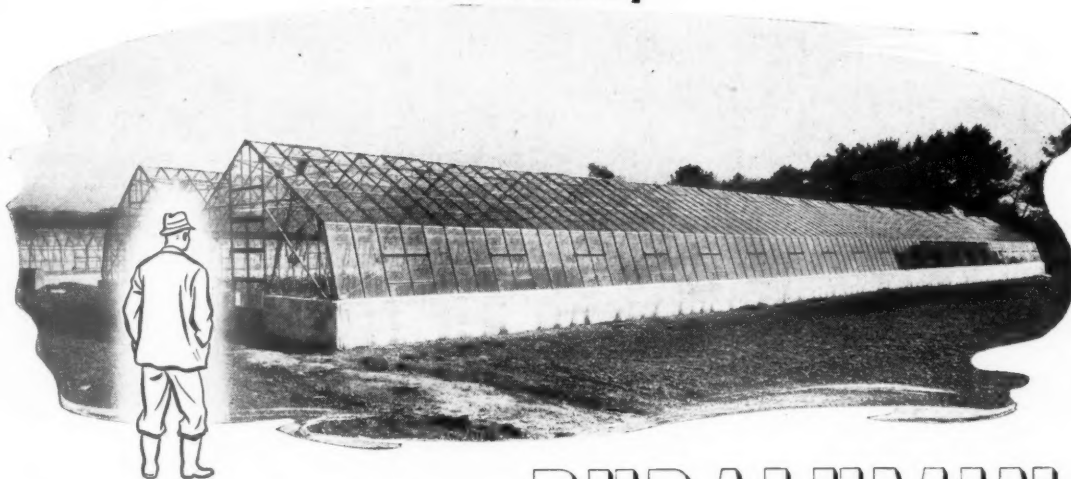
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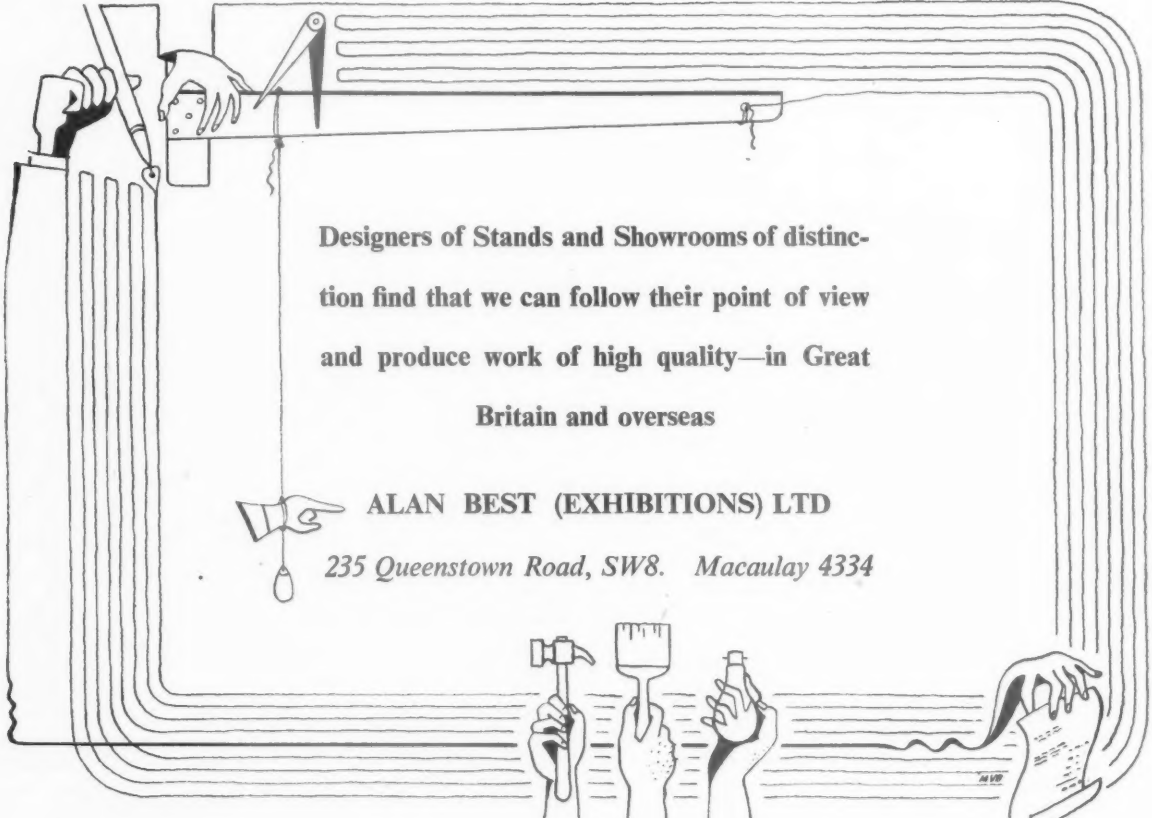
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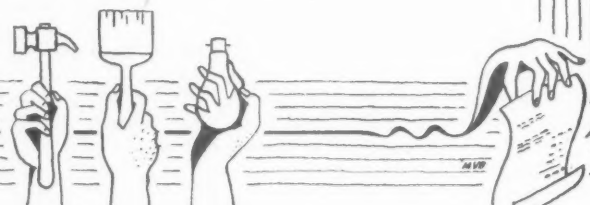
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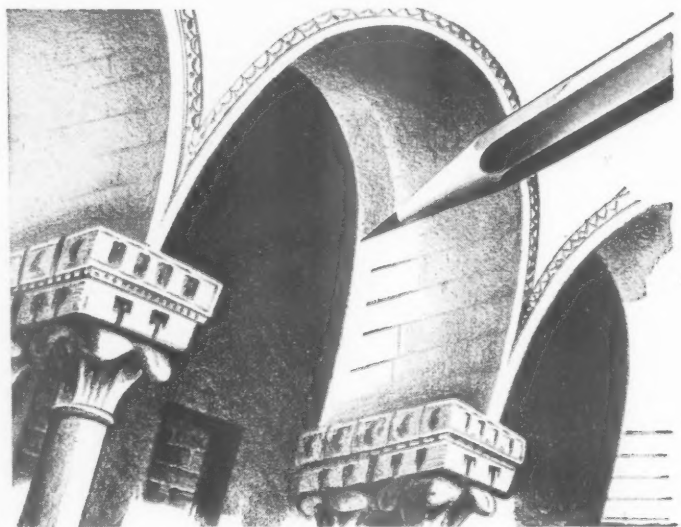
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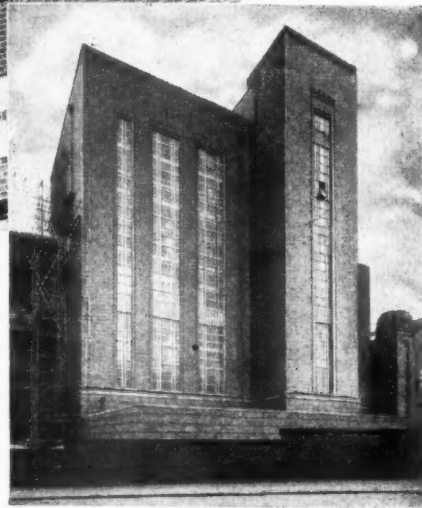
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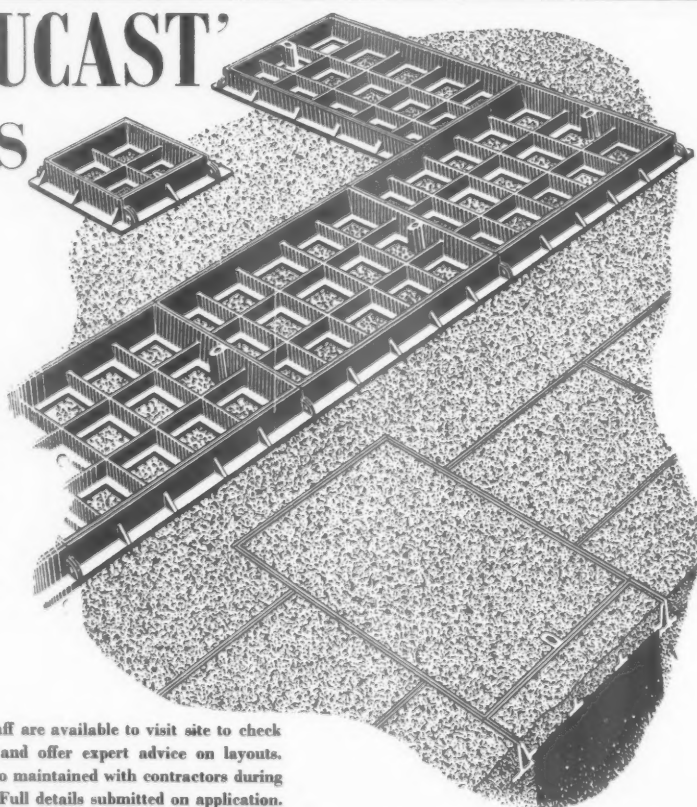
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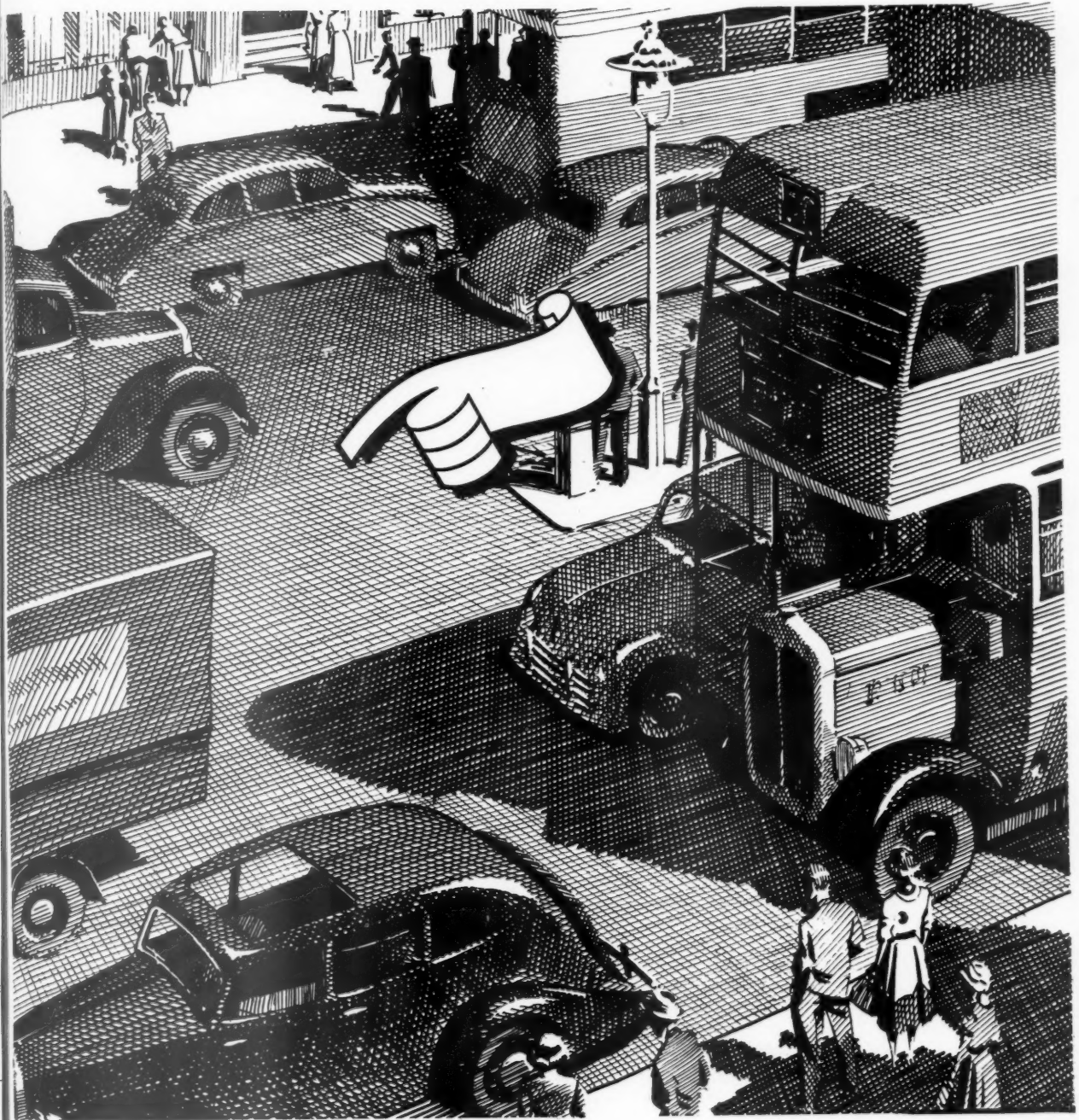


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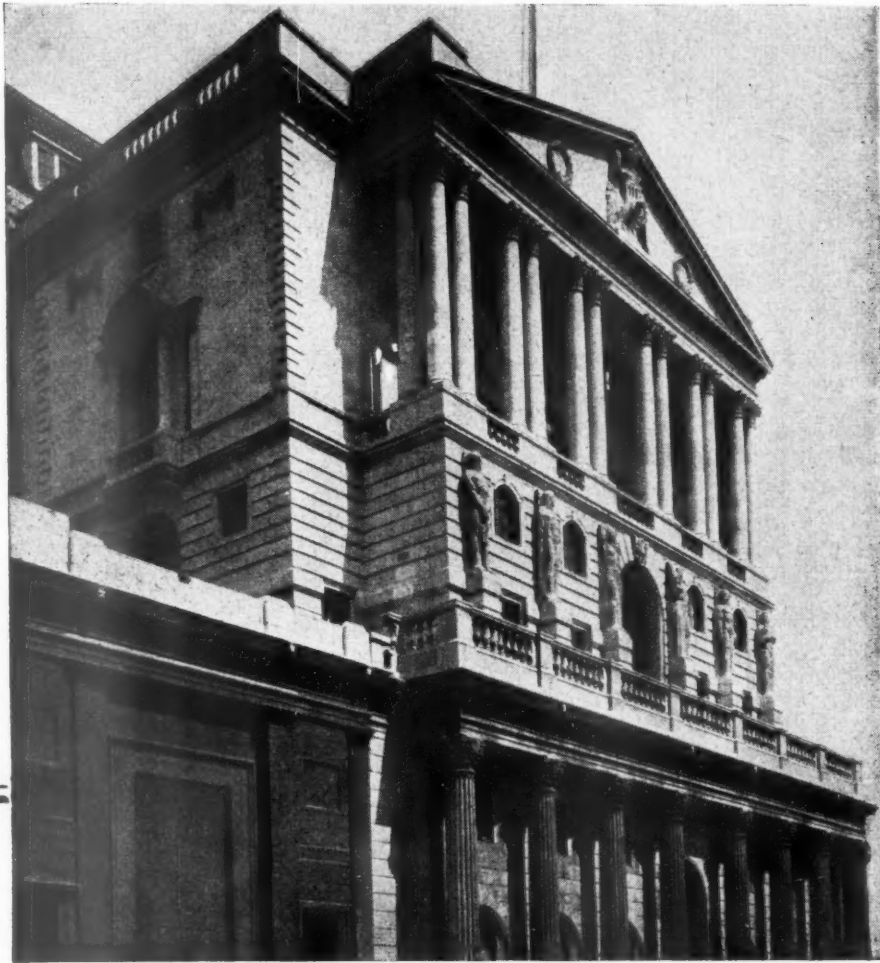
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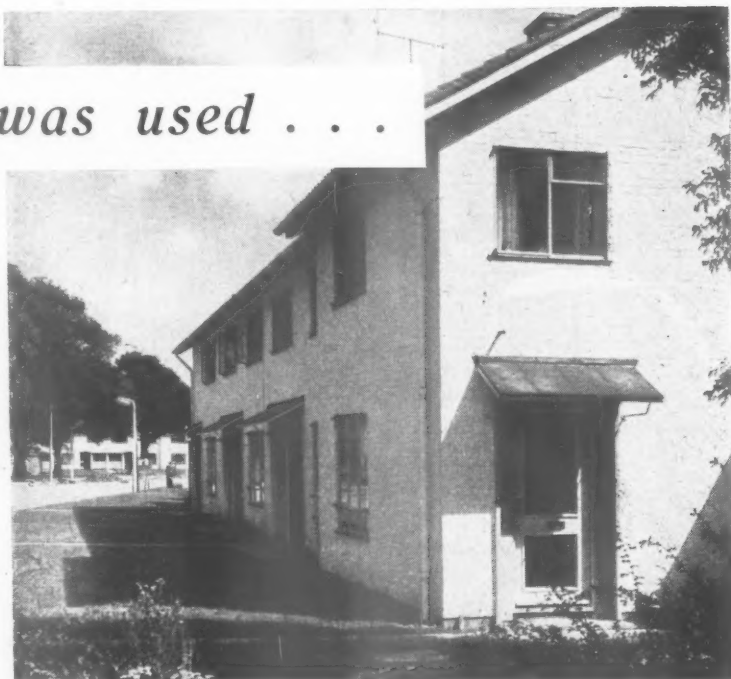
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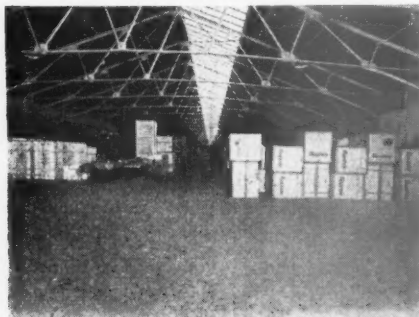
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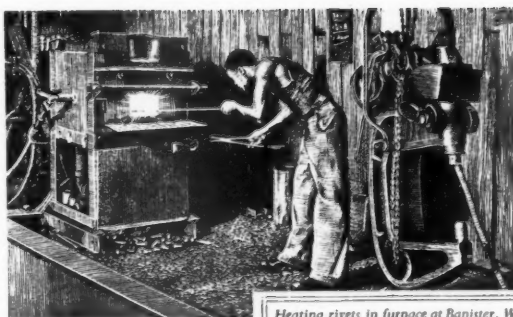
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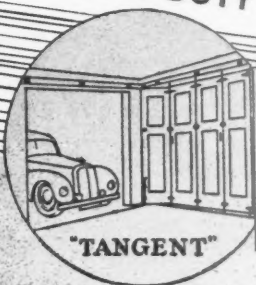
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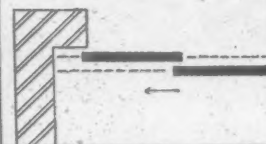


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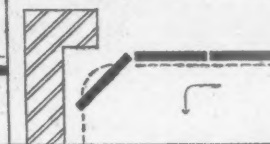
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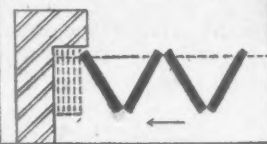
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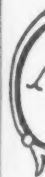
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THE ARCHITECTS' JOURNAL

No. 2974 FEBRUARY 28, 1952 VOL 115

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OFFICE BLOCKS

It was encouraging to hear the BBC Critics tackling an architectural subject once again last Sunday, but where they put the emphasis was a little puzzling. They were talking about new City office blocks, taking T. P. Bennett & Sons' "Atlantic House," Holborn Viaduct, and Howard and Souster's "King's Beam House," Mark Lane (both illustrated overleaf) as examples of the present-day tendency towards more and more massive buildings in central areas.

*

They discussed whether town-planning was a Good Thing, and then they touched on a few random aspects of the same subject, but they said very little about the buildings themselves as objects in the landscape. It is the visual side of architecture that

intelligent laymen can and should express worth while opinions about, and it is town-planning that needs, perhaps, rather too much in the way of inside information. Yet one gets the impression from so many discussions like these that laymen still feel architecture is too much a technical mystery for it to be right to express an opinion based simply on what they can see with their eyes. If the public doesn't start discriminating we shall never get a live contemporary architecture.

THIRD PROGRAMME CRITICISM

Of course, the public will not become more discriminating without guidance. And the guidance being given at the moment by Press and radio, though heartening to the profession, is too often at a Third Programme level. Naturally it is a good thing that guidance should be given at this level (I was delighted to see John Summerson's explanation of Corbusier's Modulor to the laymen in the current issue of the *New Statesman*). But if we cannot hope for enlightened comments on architecture in the *popular* Press, surely we could have more on the BBC Home Service. It seems that the BBC gives the Voice of Authority on architecture full rein only on the Third Programme. When the Voice is heard on another wavelength it is too often allowed to be shouted down, as in "The Critics," by the "I-know-what-I-like" school.

*

Paradoxically, when the BBC does drop the fair-play discussion technique it uses for "popular" listening, it fails in another way by going above its audiences' heads. I doubt whether many viewers (apologies to the purist) who saw John Newsome and C. H. Aslin playing with an ingenious school model the other week, had

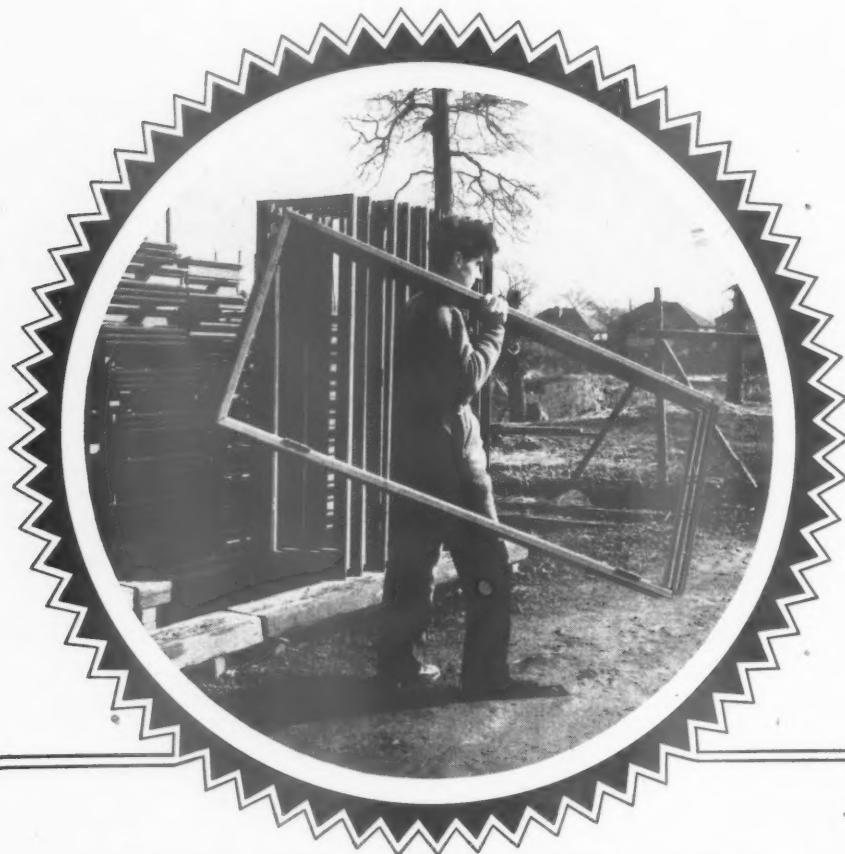
learned much about the Hills system and all that sort of thing by the end of the Herts Schools programme. The best way to show architecture to such an audience is by documentary film.

*

However, John Newsome must be congratulated on the fine tub-thumping protest he made against the education cuts when he had got used to the alarming battery of cameras. At least one MP is said to have telephoned the BBC hastily as a result. Thank goodness this is still a free country, with freedom of speech; after all, it is open to anyone who disagrees with Mr. Newsome to shout back—once he can get near a microphone, of course.

THIRD PROGRAMME EXHIBITION

Freedom of speech was being well exercised at County Hall, Westminster, when ASTRAGAL looked in this week to see the London development exhibition. A visitor, an elderly resident of Notting Hill Gate, was protesting to one of the council's architects about the suggested treatment of his own neighbourhood. From this you might assume that the LCC has prepared an exhibition comprehensible to the average layman. It has not. Although the exhibition is not meant to be a technical one, it has little of the popular appeal of the big London plan exhibition which was staged at County Hall in 1944; it is a compromise. However, I doubt whether there is much to be gained in making such an exhibition "popular." This display has been designed to meet the layman half-way; if he is intelligent enough to care about such a complex subject as the re-development of London, he can find all he wishes to know with a little effort. If he does not care there is little point in trebling the number of



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screens and diagrams to make things easier for him; he probably won't look at them anyway. The LCC is, I think, justified in catering here for the Third Programme mind.

UNO THE LCC?—CERTAINLY NOT

While in County Hall I gathered that the LCC has been having great fun and games with its own internal battle about how the building should be extended. A slap-up modern scheme—international, formalistic, diagrammatic, UNO style and all the rest of it—was, it is said, turned down by the appropriate committee. It is also said, however, that the submission of this scheme was just a machiavellian plot by the designer who *wanted* an instruction to revert to Knotted swags, and got it. Since when departmental memos at the most rarified philosophical and æsthetic heights have been buzzing along those gloomy unlit corridors.

KNOCKING MR. ECCLES' BLOCKS OFF

This week the same corridors were echoing whispers about another cold, or not so cold, war that has been raging across the river—all about the National Theatre. Under the LCC powers, two of Brian O'Rorke's schemes for the National Theatre have gone by the board, one reason being the vexed problem of resolving the duality of two buildings in close proximity. Mr. O'Rorke's latest scheme, I was told, had been turned down by the Royal Fine Arts Commission. (It would seem that he has been set one virtually impossible task: to put another auditorium cheek by jowl with the Festival Hall on such a restricted site.)

Apart from the merits or demerits of the O'Rorke scheme, I gather that the LCC boys are relieved that the designs have been rejected; they now hope to get the whole National Theatre transferred to the up-stream section, if only to drive away Mr. Eccles' office blocks, whether Lessor or otherwise. How right they are! The South Bank is much too fine a site to be cluttered up with merely administrative buildings. And Brian O'Rorke would, I'm sure, be only too pleased to have a new site.

ALL PART OF THE SERVICE

Before leaving County Hall let me say that as the boys there are an item on the rates, it is right and proper that their services to the public should be known and appreciated. Had you



"Kings Beam House," Mark Lane (above), designed by Howard and Souster, and "Atlantic House," Holborn Viaduct, by T. P. Bennett & Sons. These office blocks were discussed by "The Critics" last Sunday. Astragal criticises "The Critics" on page 261.



guessed that one of these services—one which absorbs quite a number of man-hours—is the redrawing and improving of the elevations of senior and extremely "successful" architects? Naturally this causes some "feeling," but having seen one or two of the elevations, ASTRAGAL can only add that the LCC is providing a necessary public service.

STUDIOUS WRATH . . .

While the men at the top of the professional ladder fume at these improvements to their work, students are still

seething at the RIBA Board of Education's decision to keep them from the bottom of the ladder for another year. The question of the year's probationship for students before they become ARIBA's was discussed recently by the Institute's council. It was, perhaps, almost inevitable that the council should support the board, though they did so only after a long debate. The Institute has now published a statement saying that everyone was warned "as long ago as October, 1949." So they were. But in view of



Sculpture in Space

Two extreme attitudes of mind towards city planning were cited by Colin St. John Wilson in a recent article in the *Observer*: the first, that of the "cottage-and-a-cow man," who considers cities should be scaled down; the second, that of the supporter of Corbusier's "human" vertical garden city. There was a great deal of sense in Mr. Wilson's defence of vertical living, but he did not explain how slab blocks could be "humanized." His article caught the eye of Hugh Casson, who was apparently flying over Stockholm with one hand, as it were, and reading his Sunday paper with the other. The result? Another article in this week's *Observer*.

Mr. Casson, who pointed out that for economic reasons we would have to build upwards whether we liked it or not, favoured the use of point blocks, "sculpture in space," such as this one at Stockholm, designed by H. Klemming, which he rightly thought were potentially more human in scale than slab blocks, though more expensive. It is encouraging that, at a time when the popular Press is attacking "skyscrapers," a newspaper should give its pages to a debate not on whether we should build upwards, but on *how* we should build upwards. (Photo from a Swedish exhibition at the Building Centre, Store Street, W.C.1, opening Saturday.)

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this, why should the new regulation not be postponed for two years so that the present generation of students could work its way out of the schools?

*

Those who regard the council's decision as bringing the whole matter to an end are probably mistaken. In two provincial schools it is said that the students in the fourth and fifth years have decided to resign from the Institute the day after their names are safely on the register. This studious wrath may be going a bit far, but it will teach the Institute that there is something known as "cause and effect." The Law is now involved in the matter and some curious points may crop up. To mention only one: the grants to ex-servicemen, under the Government's Further Education Training Scheme, were given to enable these men to take "a five years' course leading to Associateship RIBA." This is being considered by the Ministry.

... AND STUDENTS' SUCCESS

There is fortunately always somebody worse off than oneself. If English students are grieved because their education must be extended, would-be architects in Ulster have little or no education to grumble about. As a correspondent wrote to me recently, "the masters in offices have no time, opportunity or inclination to teach their apprentices more than what they need to become office hacks." One of the results is, of course, that many of the more ambitious students find they can't stomach Ulster and cross to our own shores. But others who stay behind are doing some useful pioneering.

*

My correspondent—an architect—tells me that a number of these enterprising students and a few architects got together last November to decide what should be done to improve educational facilities. A programme for a series of lectures and arts, to be put on by the Royal Society of Ulster Architects, was drafted and circularized. The response was overwhelming. (No one had known that there were so many architectural students in Ulster.)

*

It is difficult for us—over-lectured as we are—to imagine just what such a course must mean to these students. My congratulations and good wishes to the organizers.

ASTRAGAL

POINTS FROM THIS ISSUE

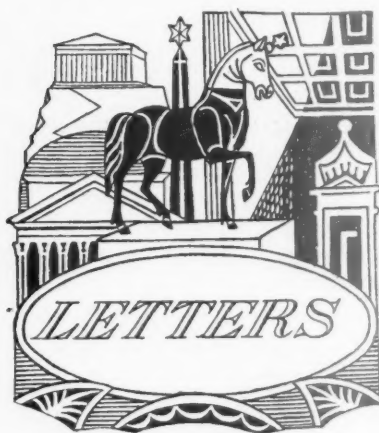
- LCC exhibition** of London development planpages 261 and 274
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The Editors

STANDARDIZATION FOR HOUSE-BUILDING

AN interesting development is taking place in the United States at the moment in the work of the "collaborative committee on house design of the AIA-NAHB"—leading American architects' and contractors' organizations. Recommendations have been made, and their practical application is being worked out, for standardizing a number of building components on the basis of certain modular dimensions and room sizes (larger than the 4-in. module which is in general use). The sizes bear relation to a variety of architect designed semi-prefabs. about to be put on the market by these contractors. They include a standard spacing of bath, w.c. and washbasin to facilitate the use of prefabricated plumbing units, a standard ceiling height (8 ft. $\frac{3}{8}$ in.), standard lengths of partitions and joists (to avoid cutting and waste of timber and plasterboard), standard doors (including garage doors to line with house doors), standard windows and kitchen fittings (including built-in gas or electric cookers).

Has this kind of standardization no application for our own house-building programme? In Britain we have all the accumulated experience of the not unsuccessful non-traditional housing. There are official reports galore, including the RIBA and BSI reports on dimensional co-ordination. There are hundreds of codes of practice and standard specifications concerning every conceivable object and operation within the industry. Yet we still have no common set of overall window sizes for metal and wood windows, and no relation whatever between window and door sizes and sanitary or kitchen fittings, or wallboards, or staircases, etc. The house-building programme offers an assured annual market for years to come. What an opportunity is here, by concentrating production for a given period on a limited number of components, capable of producing a limited number of plan types correlated as to size, and using both traditional and non-traditional techniques, not only to speed the houses but also to make a practical start on the problem of co-ordinating the dimensions of building components. The Minister of Housing desires a crusade. He could go a long way towards achieving one by urging the Building Divisional Council, whose activities are reported on page 272, to consider the problem along these lines.



Claude Sisley

Christian Hamp, A.R.I.B.A.

Peter Murray

Three Pig Islander Architects

Frank H. Peck Hon. Sec. to Joint Committee
for Proposed Registration of Clerk of Works Act

Street Congestion

SIR,—May I have the space to work out a few simple sums in connection with the letter from R. G. Hollis (AJ: February 7) in which he maintains that congestion in the streets would be overcome if everyone drove to work in his own car.

An omnibus is about 30 ft. long and it seats 56 passengers, plus five standing during the rush hours (61 people).

An average small private car is about 12 ft. long. Sixty-one people, all going to work in their own cars would occupy 1,232 ft. of road if they all travelled touching each other.

A small car is about 6 ft. wide and since it is 12 ft. long and there will be 61 of them, every bus-load would therefore require 4,392 sq. ft. of parking space, if the cars were packed solid.

What space would be taken up if the cars travelled with intervals between them, or if there were space to manoeuvre in the car park, is, I fear, something too difficult for me to calculate. But it really does not matter. What odd ideas people do have, to be sure.

London.

CLAUDE SISLEY.

Architectural Competitions

SIR,—As a competitor in several of the recent architectural competitions I should like to register disapproval of the conditions governing presentation.

Directions for the method of carrying out the finished drawings usually comprise the following:—(a) No shadows on elevations. (b) Tinting of windows. (c) No colours or other tints to be applied.

What can be the reason for such rigidity? Is it to protect the assessor against himself?

Shadows, without which an elevation is difficult to read even for the professional eye, are an aid to the three dimensional understanding, and if applied to a rule would

give every competitor the same advantage. If the tinting of windows is in order to show the shape of the opening, this can be done in other ways, e.g., the use of brick courses on the walls.

The use of colour internally and externally is of great importance, and can make or mar the pattern value of the building. The elimination of colour to avoid the fully rendered drawing does reduce costs, but the result does not adequately express the scheme. Could not a system be devised to include a typical elevation showing suggested colour to be used?

Finally, it is to be regretted that so much of the enjoyment and imagination possible in the presentation of competition schemes is destroyed.

CHRISTIAN HAMP.

London.

What is a Candelabrum?

SIR,—As a keen critic in the field of contemporary design, whether it be motor cars, the Festival of Britain or lighting fittings, I was amused by ASTRAGAL'S remarks about the GEC's new range of lighting fittings (AJ: February 7).

I too have recently seen these fittings, but must confess myself a trifle puzzled by your reference to fittings suitable for "candelabra harbourers." I cannot recall having seen a single candelabrum, let alone a number of candelabra, among the range in question. Can it be that ASTRAGAL has come unstuck with his nomenclature and is referring to chandeliers all the time?

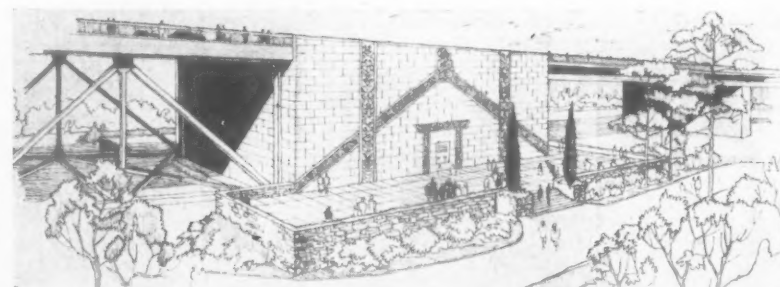
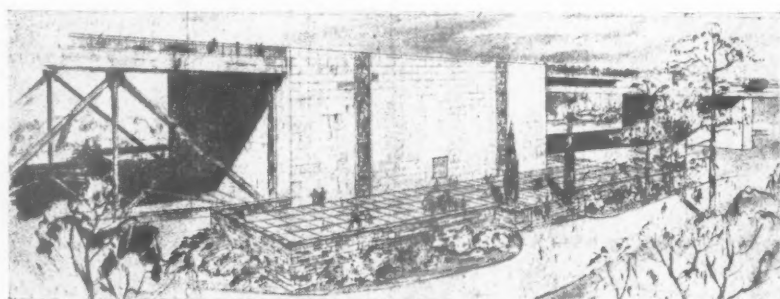
Middlesex.

PETER MURRAY.

[The Oxford Dictionary defines candelabrum as "an ornamental branched candlestick; a chandelier."—ED.]

Crime on a Cliff

SIR,—To demonstrate our point readily we are enclosing an illustration from one of four leading daily papers publicizing the recently received London drawings for the Auckland harbour bridge.



Top: a sketch from a New Zealand newspaper showing the Auckland Harbour Bridge, designed by Freeman, Fox and Partners. The writers of the letter "Crime on a Cliff" have submitted the sketch beneath it; they explain why in their letter.

A more naïve sop to buy off public opinion could hardly be imagined. Do the people over your way who "architecturalize" such things really think that the Maori is bought off by crude concrete "carvings" originally done in wood, or the European by the grand Renaissance approach to a feeble plaque on a massive concrete and steel anchor, complete with graveyard cypresses from Italy?

This crime is to be perpetrated on an attractive cliff edged point fringed with the beautiful scarlet flowered native Pohutukawa (or Christmas tree).

Perhaps the accompanying suggested modification, showing more clearly the origin of the "carving" from the Maori house front, might help to clarify the situation.

We wonder what would be the general reaction in England to such an act of architectural vandalism by a New Zealander.

We good humouredly think we know.

THREE PIG ISLANDER ARCHITECTS.
New Zealand.

Clerk of Works Registration Bill Proposed

SIR,—The question of a Clerks of Works Registration Act was taken up earnestly some years ago and as a result a joint committee comprising members representing several important clerks of works associations throughout the country was formed to promote legislation that would lead to:—
(i) The registration of all clerks of works.
(ii) The prohibition of the use of the title "clerk of works" to persons not so registered.
(iii) The formation of a body to secure proper standards of professional qualifications for clerks of works.

The necessity for such legislation would, at first sight, be apparent to all persons engaged in architecture, building or engineering—that is to protect the qualified clerk of works—but the joint committee have, as their main object, the desire to protect the building industry and all those concerned by ensuring that qualified persons only are engaged in

superintendence of their age.

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superintending, on behalf of the clients or their agents, the progress of the works.

We often hear the term "jerry building" used, but can there be jerry building if there are clerks of works supervising the works? There must be an answer to this.

The joint committee consider that the qualified clerk of works is as important to the building industry as other professional persons or operatives and that in the interests of all the professions concerned, the building industry and the client, who is so often the public, the occupation of clerk of works must be fully recognized as a profession and that the name or title should be safeguarded. To this end therefore the committee have prepared the various clauses to be incorporated in the proposed Registration Bill and are now approaching the drafting stage.

FRANK H. PECK.

Kent.



RIBA

Architecture Bronze Medal Awarded

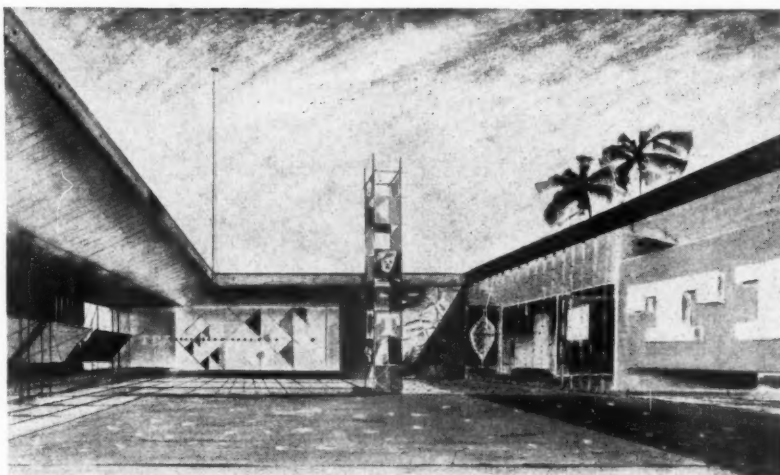
At a recent meeting the RIBA council confirmed the award of the RIBA Architecture Bronze Medal by the jury of the Manchester Society of Architects to G. Noel Hill. Mr. Hill, county architect for Lancashire, received the award for the Droylesden secondary modern school.

New Appointments

The following appointments were made at a recent meeting of the RIBA council:—

RIBA Representatives on the Architects' Registration Council of the United Kingdom for the Year 1952-53.—H. Anderson, J. T. Castle, L. A. Chackett, Anthony Chitty, H. Conolly, Kenneth M. B. Cross, A. G. Sheppard Fidler, R. O. Foster, P. G. Freeman, P. K. Hanton, J. E. K. Harrison, Cecil Kennard, Howard V. Lobb, E. D. Lyons, E. D. Jefferiss Mathews, S. W. Milburn, T. E. North, Denis Poulton, A. L. Roberts, W. A. Rutter, H. G. C. Spencely, R. H. Uren.

RIBA Representatives on Admission Committee, ARCUK for the Year 1952-53.—L. A. Chackett, C. J. Epril, Denis Poulton, G. F. Whitby.



The International Tea Pavilion at the Colombo Plan Exhibition, which opened in Victoria Park, Colombo, last Saturday, was designed by Misha Black and John Diamond. It is constructed of the standard shedding designed for the Exhibition by its chief architect, T. N. Wynne Jones, and has been arranged round three sides of an open garden court. The fourth side forms the main elevation and consists of two colour-washed brick walls linked by a timber pergola on which are flowers and creepers.

Federation of Malaya Architects' Registration Board: RIBA Representative.—A. O. Coltman, M.B.E., president of the Federation of Malaya Society of Architects.

At the same meeting the council accepted the invitation of the Royal Architectural Institute of Canada to the president and secretary of the RIBA to visit Canada and, in particular, to attend the annual assembly of the RAIC which will be held in Vancouver at the end of April and beginning of May.

NFBTE

New Representatives

At a recent meeting of the council of the NFBTE the following members were among those elected to represent the Federation on Government advisory bodies, joint boards and committees:—

MOW Advisory Council on Building and Civil Engineering industries: W. H. Forsdike, J. Ian Robertson (president) and S. F. S. Hearder (director).

Architects and Builders Joint Consultative Committee: Wilfred Horsfall, S. Hudson, H. B. Ken, R. U. Lloyd, Norman Longley, J. Ian Robertson.

Architects' Registration Council: D. E. Woodbine Parish.

MOHLG

BEM for Housing Superintendent

Last week the Minister of Housing and Local Government, Harold Macmillan, presented the British Empire Medal to J. A. Norman, housing superintendent of a company which is carrying out large-scale building operations in Crawley and Stevenage new towns. The company is also building many houses in Romford, Ilford, Wembley, Epsom, Bexley, East Barnet, Chislehurst and Sidcup. It has completed more than 2,000 houses in the new towns and for local authorities in the London Region since the war.

COMPETITION

Memorial to Aviators

A first prize of twenty guineas and a second prize of five guineas will be awarded by the Royal Institute of the Architects of Ireland and the Architectural Association of Ireland in a competition for a memorial to the aviators Alcock and Brown, who landed near Clifden, Co. Galway, after their Atlantic flight in 1919. The assessors will be Wilfred Cantwell and John O'Gorman. The closing date will be March 18.

The precise spot where the aviators landed is in bogland difficult of access, so it is proposed that the site of the memorial should be immediately to the east of the Clifden-Ballyconneely Road, a wild road and a favourite tourist route.

The memorial is to be a cenotaph commemorating, not only Alcock and Brown, but also all those pioneers who lost their lives in unsuccessful Atlantic flights. The form of the cenotaph is left to the competitor's discretion, but must include one or more stone structures "of noble and enduring character."

The presentation of the scheme will be considered in the award of the prize. Drawings required are a true perspective and a small layout plan. A site plan can be obtained on application to the Royal Institute of the Architects of Ireland, 8, Merrion Square North, Dublin.

SCOTLAND

Few Entries for Housing Award

Too few local authorities are entering schemes for the Saltire Society's Annual Housing Award given for the best designed local authority traditional housing scheme, according to a Department of Health for Scotland circular.

The Saltire award, says the circular, has the full support of the Secretary of State who regards it as valuable recognition and encouragement of good planning and design in housing schemes.

Normally two awards are made by the Society, one for cottages and one for flats.



This new Dolcis shoe shop at 22, Old Broad Street, designed by Ellis E. Somake, Staff Architect to the Dolcis Shoe Co. was officially opened last week. The fascia is a vertical rectangle of verd-antique marble on which is incised the client's new insignia designed by Reynolds Stone. The same marble is used for the entire length of the left-hand wall of the reception area, which can be seen through the plate glass window which is recessed from the pavement

line to form a lobby. On the ground floor a staircase and lift divided the space available into two almost equal portions at front and rear with a connecting link 20 ft. long, 5 ft. wide and 13 ft. high. As neither portion was large enough to accommodate the complete sales area the front portion is reserved mainly for display and as an extension of the pavement into the shop, and the rear area forms the main selling space and saloon.

A plaque is placed on each building chosen, and a certificate is given to the local authority and the architect for the scheme.

Winners of the 1951 award were Linlithgow Town Council. The other post-war winners have been Aberdeen and Glasgow Corporations.

RIBA

Competition; Closing Dates

The closing date for application for the RIBA Intermediate Design Prize is March 20. The closing date for the Victory Scholarship is March 24.

The RIBA Intermediate Design Prize, a certificate and the sum of £100, for the study of contemporary architecture in Europe, is confined to probationers and elected students of the RIBA and elected students of Dominion allied societies who have passed the RIBA Intermediate or equivalent examination, or produce certificates from members of the RIBA saying they have reached the required standard. Students who have passed the RIBA Final or equivalent examination—or who will have passed one or the other at the time of the *en loge* competition—are not eligible to compete. Only one *en loge* competition will be held. This will take place in London and at non-Metropolitan centres on Wednesday, May 7.

The Victory Scholarship and the sum of £120 is confined to members of the RIBA and of the allied societies overseas, and

elected students of the RIBA and of the allied societies overseas, who have passed the RIBA Final or equivalent examination, or who have produced certificates from members of the RIBA saying they have reached the required standard. With regard to the RIBA Final or equivalent examination; students need not have passed the professional practice examination to be taken after twelve months practical experience.

The *en loge* competition for the Victory Scholarship will be held on Wednesday, May 7.

Forms of application for admission to the competitions may be obtained at the RIBA, 66, Portland Place, W.1.

MOW

Leaflet on Laying Drain Pipes

"Laying Drain Pipes," No. 24 in the MOW series of advisory leaflets, deals with underground pipework from the house to the public sewer. It gives hints on laying and jointing both glazed-ware and cast iron pipes, manhole construction, and forming connections. Copies of this leaflet and of previous issues in the series are obtainable from HMSO (post orders to PO Box No. 569, London, S.E.1.) or through booksellers, at 3d, each.

MOHLG

How to Speed House Building

The Minister of Housing and Local Government, Harold Macmillan, has sent a circular to local authorities suggesting how they can speed the building of houses under licence now that they have wider discretion. The article makes the following recommendations:—

Private building should be allowed on the many small plots which are not big enough for municipal housing schemes, but, where services are already available and houses can go up quickly, local authorities should avoid using for their own housing schemes sites owned by builders. Block licences may be issued to builders who, for speed and economy, wish to build a number of houses as a single job, but always with the proviso that when completed the houses should go, and be seen to go, to persons approved by the local authority.

Consideration should be given to granting licences for the building of small houses to people who now live in houses too big for them, so that the larger houses may become available for family use.

Advantage should be taken of the good building weather of the coming months by granting licences now, instead of spreading them over the year, provided that this will not dislocate the local building programme.

(Continued on page 272)

This week the JOURNAL's Guest Editors, in continuing the description, started in their first article published on February 14, of the scope of the public architect's work, examine briefly the building responsibilities of central government agencies and the local authorities. The JOURNAL's Guest Editors are: Robert Gardner-Medwin, Chief Architect and Planning Officer to the Department of Health for Scotland; Donald Gibson, City Architect and Planning Officer of Coventry; Stirrat Johnson-Marshall, Chief Architect to the MOE; and Robert Matthew, Architect to the LCC.

The Guest Editors

THE SCOPE OF THE WORK (II)

IN our first article we tried to show that with the growth of social services consequent on the Industrial Revolution a new tradition of Public Architecture had been created in Great Britain, replacing the previous tradition of royal patronage by one in which the Government found most of the money and the Local Authorities did the work. We also gave some idea of the immense amount of architecture done by the Government's principal building agency, the Ministry of Works.

It is worth reminding readers at this stage that one of the good things about this new tradition is its possibility of change. There is no immutable system in existence for getting the job done, just as there is no lack of variety in the different types of public agency. As an example of this process of change, one has only to cite the Town and Country Planning Act of 1947, which made 145 counties and county boroughs responsible for planning instead of the nearly 1,500 smaller authorities which had previously been struggling with inadequate resources to do the job. Another example is that of hospitals, which have been transferred from Local Authority or voluntary administration to that of the

Central Government, with regional organizations. In this article we shall first take a brief glance at other government agencies which are responsible for building, and then look more closely at the Local Authority structure.

Since the last war a great deal of legislation has been passed, much of it devoted to transferring the various utilities, such as gas, water, and electricity, and the transport service from private to public ownership. One major industry (coal) has also been taken over. In each case a public body was specially created to run them, and these bodies, whether they are called Corporations, Boards, or Executives, all have large building needs, for which a co-ordinated programme could now be worked out on a comprehensive national basis. Of course, none of these changes from private to public ownership has been caused, or even influenced by, architectural considerations, and at least one has had a harmful effect on architectural development. This particular case will be dealt with in detail in a later article.

CO-ORDINATION OF RESEARCH

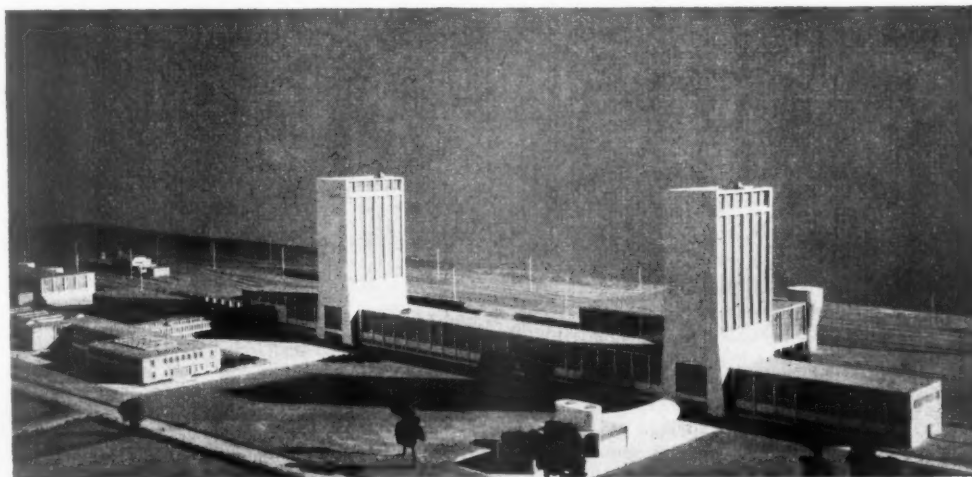
However, the architectural departments created by these new public

bodies should give big opportunities for the co-ordination of research and development work in direct relation to a large programme of specialized building. This covers not only those types of building for which the architect has been traditionally responsible, but also for types which are only beginning to be appreciated as containing problems of architectural design. The former Miners' Welfare Commission Office, for instance, was responsible only for building directly concerned with welfare, but now, as the nucleus of the National Coal Board's Architectural Department, has a much wider range of architectural possibilities; and the Architect to the Scottish Branch of the Coal Board seems to be regarded as "surface planner" for all building operations above ground. Other public agencies, such as the Airways Corporation and the Scottish Hydro-electricity Board, also provide a wide range of work. There are great possibilities for fruitful collaboration between the public hydro-electric engineers and public architects, a collaboration which has been so conspicuously successful in the TVA, but which has not yet been exploited so far in Scotland.

One other important factor affecting all these new offices is that of regional decentralization. Some of them have set up regional headquarters with architectural offices, whose responsibilities normally cover design and maintenance policy, and part of, if not all, the building work.

Another post-war government activity is the New Towns programme. This is too well known and too topical to need any description here, but it again represents a big new opportunity for public architecture. We will probably return in due course to have a look at the organization and progress in some of the New Towns, but we want to note in passing that this form of comprehensive development might well be used to rehabilitate some of our more difficult industrial areas, where again

This design for a colliery at Rothes, Fife, demonstrates the architectural potentialities of the new Government authorities for dealing with the public utilities.





A detail of TVA architecture (the visitors' building at Chickamauga) which brings out the synthesis of design achieved by collaboration between public engineers and architects.

a new field might open for the Public Architect both as planner and as coordinator of building programmes.

FIELD RESEARCH

The Building Research Station has a place of its own in the realm of official architecture. It has a unique scope of study, a unique combination of staff, and a unique opportunity.

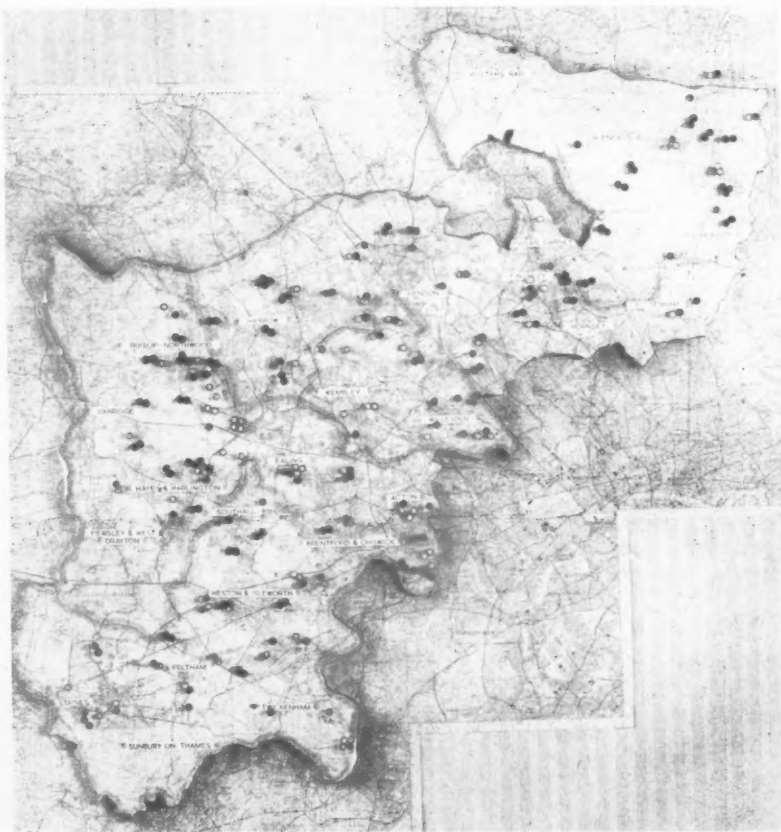
Only a fraction of its architectural potential has yet been felt. The most obvious impact has been through the individual subjects of light, heat, sound, and fire, where the scientific-architectural collaboration on the Station is strongest, but there is an indirect effect through bye-laws, materials manufacture, and so on, which has its own special value. Development work and planning studies offer great opportunities to the Station—perhaps the greatest it has—and should begin soon to get the attention they need. The further step of taking this theoretical development work into the field is at the present time rather difficult to achieve and needs the collaboration of the profession, and particularly of the official architect. We consider that the importance of integrating this theoretical work with actual programmes of building (which we consider up to the present has fallen short of desirability) will justify us returning to this point in some detail in a later article.

To close our review of central government agencies, we would like to draw attention to the all-embracing architectural and planning duties of the Department of Health for Scotland. As in the case of Northern Ireland, Scotland has a separate Office which combines certain functions which are the responsibility of more than one department in England and Wales. The technical team of architects, engineers and quan-

tity surveyors concern themselves not only with housing and planning policy, but also with that for schools, hospitals, health centres and various buildings for the Home Department; it is also responsible for the actual building of health centres and some Home Department buildings, and it sponsors a central house-building agency known as the

Scottish Special Housing Association (there is, by the way, a similar body in Northern Ireland), which is equipped to build houses for local authorities and develop "non-traditional" and experimental housing methods: virtually an executive agent of the central authority. In fact, the Scottish Department of Health raises the interesting question of

This plan of Liverpool, right, reproduced from The Town Planning Review, shows the extent of the existing and proposed housing areas in a large county borough. It will be seen that these areas constitute a very considerable portion of the area of the city as a whole. The photograph of the plan of the County of Middlesex, below, shows plotted a County Council's programme of schools built and in progress between 1947 and 1951. It brings out the wide distribution, geographically, of a county council's architectural work.



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the central advisory authority functioning also as a building authority, and one to which we will return later.

Before proceeding to Local Authorities we must mention those public bodies which are neither local nor central Government agencies, namely, the Co-operatives. For reasons which we cannot examine in this general article, the Housing Co-operative movement has never developed in Great Britain as it has in Scandinavia, but there is, of course, a large co-operative organization for retail distribution. The Co-operative Wholesale Society has branches all over the country, and the work of its architectural department is concerned chiefly with the erection of its own factories, warehouses and shops.

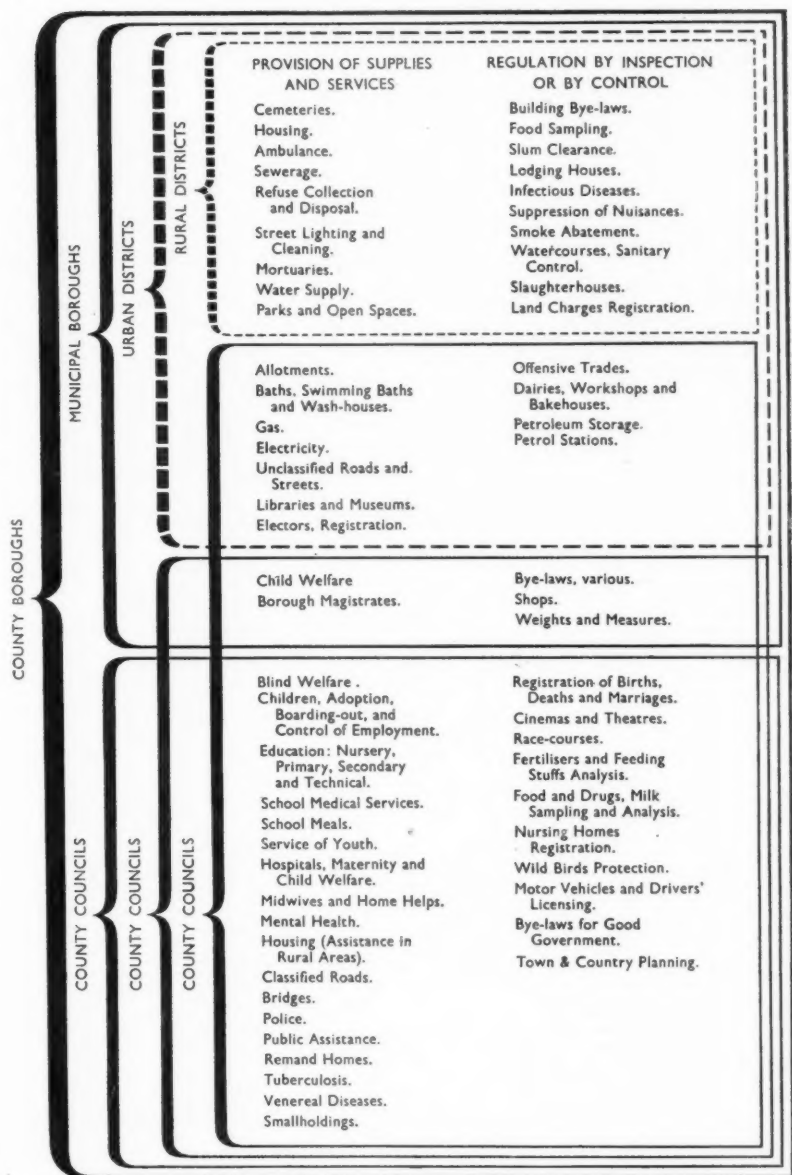
LOCAL AUTHORITIES

We now turn to the scope of the work of Local Authorities, and here we are up against two difficulties which will be with us all the time—first, the fact that half the JOURNAL readers already know what we must say for the benefit of the other half, and second, that, as we have already pointed out, the duties of Local Authorities are not static, but are subject to frequent change.*

There are two principal types of Local Authority,† those which have all the duties which are given to Local Authorities, known as County Borough Councils, and those which are part of a two tier system, with the County Council as the upper tier and the Borough, Urban District and Rural District Councils forming the lower one.

The Architectural Department of a County Borough Council may be in charge of the overall planning, of the housing, schools, and of all other building work which the Council is obliged or wishes to undertake. The Chief Architect may also be the technical officer responsible for briefing private architects on work which is given out to them. This type of office is most favourably placed for developing the architect as a town designer—since he can be responsible for, or can have a say in, nearly all the design elements which go to make the urban environment, from the overall planning to the smallest details of townscaping. The work is helped by the fact that the average County Borough area is reasonably compact, and, while not being too large and unwieldy, is yet large enough to maintain a fair-sized and varied building programme.

A County Architectural Department, on the other hand, is responsible for a smaller variety of building types (housing is excluded in England, though not in Scotland where only the larger "burghs" relieve the Counties), but its



This chart, from the book *Conurbation*, by the West Midland Design Group, gives the distribution of the functions of local government. Published in 1948, (Architectural Press, 30s.) it already shows, in certain details, evidence of the process of change of responsibilities referred to at the beginning of this article.

work is spread over a much larger area in both town and countryside. Perhaps its most positive virtue is the possibility (in most counties) of a continuous* building programme.

The Boroughs are somewhat similar to the County Boroughs, but normally without planning powers, and with a more restricted variety of building responsibilities, although a large Borough can offer many of the same attractions. The Urban Districts are more limited in their scope, and since they usually comprise the outer suburbs of a large urban centre, housing is their main building activity. This limitation applies also to

Rural Districts, and, in addition, the work is of a much more scattered nature, although the problems of village building and improvement can be extremely interesting.

These last three Local Authorities sometimes suffer from an architectural point of view, because their building needs are rarely large enough to ensure a reasonable flow of work over a period.

THE GREAT EXCEPTION

London, as most readers know, has a two-tier system peculiar to itself, the County Council, having all the normal planning and building duties (and more besides) of a County Borough, but all on a very large scale, and the twenty-

* Even as this is written a Bill is before Parliament, the purpose of which is to enable the larger Urban Authorities to build outside their own boundaries.

† For a full description of powers and duties of Local Authorities see "The Local Government of the United Kingdom," by J. J. Clarke.

* We assume that public expenditure on building will not drop again to the slump conditions of 1931.



Primary school at Morgan's Road, Hertford. A typical example of a co-ordinated building programme, phased over a number of years, by a public authority. This authority alone, the Hertfordshire County Council, has now completed fifty schools.

eight Metropolitan Borough Councils whose building duties are mainly concerned with housing, in which they share an equal responsibility with the County Council. There is also the City Corporation which is, in many respects, similar to Metropolitan Boroughs but has additional responsibilities of its own, arising from its unique historical development.

This is a sketchy enough description of the building responsibilities of the Local Authority network in England and Wales,* and it omits a number of factors which differentiate the practice of Public Architecture from the private sphere. First, the immediate client is usually a committee, which may be guided financially by another committee and even over-ruled by the full council. Second, the programming of work over a period

of years is coming more and more into practice, so that the architect can plan ahead with some confidence. Third, the architect has to live with his buildings, and is thus very conscious of maintenance as well as capital expenditure. Fourth, client committees frequently wish to have preliminary studies of projects which may or may not be executed for several years. Fifth, the architectural department is only one of several other departments, and successful collaboration with them is a pre-requisite for successful working.

All over the country is spread this network of Local Authorities, spending millions of pounds on an ever-widening range of architecture. We shall try to discover—with the help, we hope, of JOURNAL readers—how local authority architects can best make their contribution, working with their comparatively new clients, with the even newer agencies of Central Government, and with the various other public organizations which play their part in creating the architecture of today.

* We will not add to the confusion by discussing the slight differences in local authority organization in Scotland and Northern Ireland. The main difference in Scotland is that the County Architect (often the County Planning Officer) has a much more comprehensive programme of building, including housing, than in England.

(Continued from page 268)

NEWS IN BRIEF

Appointments and Changes in Practice

Mr. D. D. Yeoman, A.R.I.C.S., and Mr. H. G. Edwards, A.R.I.C.S., have entered into partnership and commenced practising as chartered quantity surveyors at 28-30, Wigmore Street, W.1. (Tel.: Welbeck 5489.) The name of the firm will be Messrs. Yeoman and Edwards.

Messrs. William C. Inman and Partners, chartered surveyors, have taken into partnership Mr. Sidney J. Long, A.R.I.C.S., A.I.A.S., A.I.Q.S. He has been their chief assistant for some years. The firm will continue to practise under the name of William C. Inman

and Partners, chartered quantity surveyors, at 7, New Square, Lincoln's Inn.

Mr. Daniel B. Connal, chartered quantity surveyor, has taken into partnership Mr. J. Francis Green, A.R.I.C.S., A.I.A.S. The firm will practise at 13, Christopher Street, Finsbury Square, London, E.C.2, and 2, Dane John, Canterbury, under the name of Daniel B. Connal & Partners.

Messrs. Hammond and Jack, architects and surveyors, of 130-131, Salisbury House, Finsbury Circus, E.C.2, have taken into partnership Mr. K. A. Saunders, L.R.I.B.A. The title of the firm and their address remain the same.

Mr. K. Macrae, Edinburgh, has been appointed secretary and treasurer of the Royal Incorporation of Architects in Scotland, in succession to the late Mr. J. T. Middleton.

BSI

Industry Leaders Discuss British Standards

What could well be described as the "Parliament" of the building industry met recently under the auspices of the BSI. Among the thirty people present were leaders of practically every building supplies industry—from asbestos and cement to stone and timber, and from builders' plant to sanitary ware. Also present were representatives of the NFBTE, of the professional institutions (architects, surveyors, and civil, municipal and structural engineers), and of the government departments concerned in the housing drive.

The purpose of the conference was to decide what urgent steps could and should be taken to adapt the work of the BSI, and more particularly the 300-odd British Standards for building materials and components, so as to help the industry meet the current demand for increased output of small houses.

It was concluded that the smaller builders had an important part to play, and that it would be of practical help if they were given quick information about those British Standards which directly affect house-building, as distinct from those concerned with larger projects and with ancillary supplies and services.

A special list of such standards is to be prepared immediately and will be given the widest possible circulation among builders, local authorities and others interested.

In addition, all current British Standards in the building field are to be reviewed by the qualified technical committees to find out what must be done to secure the most economical use of scarce materials. Where necessary and possible, the specifications will be modified so as to reduce the drain on such materials. In other cases new specifications will be issued to permit the use of suitable alternatives.

This programme represents a heavy load of work for the many technicians in the building and associated trades who serve the national interest through the BSI. It is, however, to be tackled with all possible energy and speed, and the Building Division Council believes that useful results will emerge in the coming months.

DIARY

London: The Next Twenty Years. Exhibition explaining the 1951 County of London Plan. At County Hall, Westminster. (Sponsor: LCC.) 10 a.m. to 8 p.m. (except Sundays). Saturdays: 10 a.m. to 6 p.m.

UNTIL MARCH 28

Modern Swedish Architecture. At the Building Centre, Store Street, Tottenham Court Road. (Sponsors: Swedish Society of Architects and the Swedish Institute.) 9.30 a.m. to 5 p.m. Saturdays: 9.30 a.m. to 1 p.m. MARCH 1 TO 29

Development Plan Exhibition. At Guildhall, Northampton. MARCH 1 TO 15

The Lands Tribunal. Sir William Fitzgerald. At 12, Great George Street, S.W.1. (Sponsor: RICS.) 5.30 p.m. MARCH 3

Twenty Years After. Professor Sir Patrick Abercrombie. At 66, Portland Place, W.1. (Sponsor: RIBA.) 6 p.m. MARCH 4

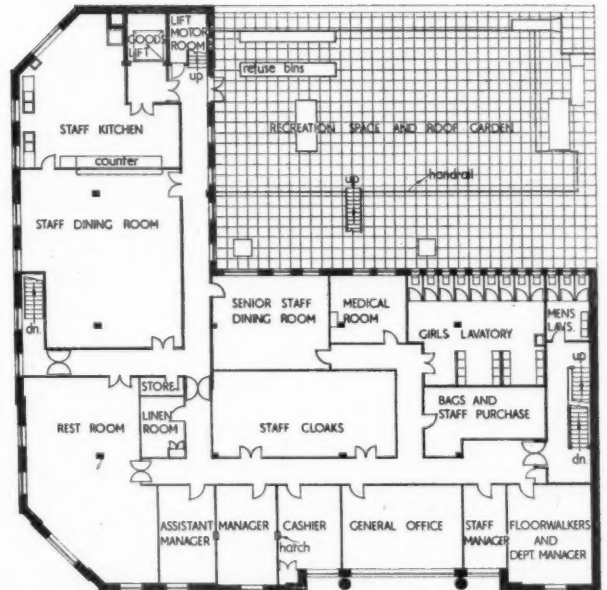
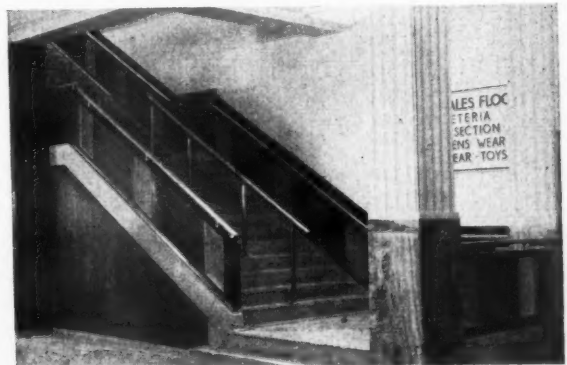
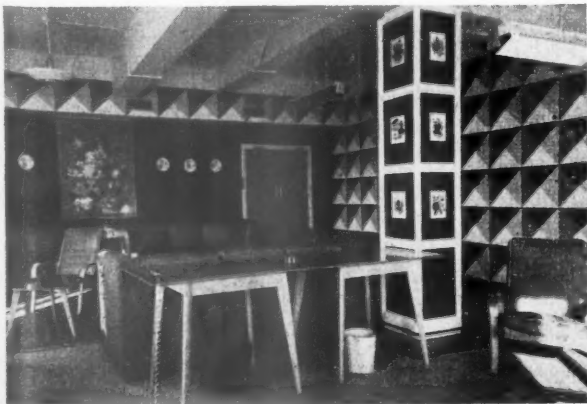
Public Health Engineering. Lt.-Col. F. G. Hill. At Caxton Hall, Caxton Street, Westminster, S.W.1. (Sponsor: TPI.) 6 p.m. MARCH 6

DEPARTMENT STORE IN FORE STREET, EXETER, DEVON

The new department store illustrated on this page forms part of the city development scheme and is in the centre of the area which will be the new shopping centre. The architects were Lewis and Hickey and the staff rest room (seen right and below left) and dining room interiors were designed by James Gardner. The original Marks and Spencer store was totally destroyed during the war and the new premises, which has a staff of 180, was opened 10 years after the loss of the previous building. There



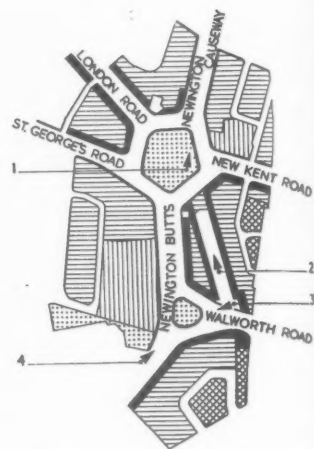
are five floors, of which two are used for selling, and the second floor is devoted entirely to administration and staff quarters. Due to the steel shortage the building has been constructed with load-bearing brick walls with a central frame of structural steel and floors are of hollow-tile construction. Pile foundations were used and for part of the roof a new type of finish was employed. This has a reinforced bitumen-impregnated and sealed felt bottom layer, upon which was laid and fixed, by a special emulsion powder, the usual two thicknesses of asphalt, covered with spar chips embedded in oxidised bitumen providing reflection of solar heat and consequent longer life for the asphalt. The photograph bottom right shows a public staircase, which has a terrazzo finish and a balustrade of walnut panelling and cut and acid inset etched glass panels. The general contractors were Bovis Ltd. For sub-contractors see page 290.

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

LCC'S PROPOSALS FOR THE ELEPHANT AND CASTLE



These models and sketches of suggested replanning of the Elephant and Castle are on view at the LCC's exhibition of the County of London Development Plan, at County Hall, Westminster. The photograph above shows the general treatment proposed for the road junction and surrounding area. Below: this photograph and figure 1 show how the roundabout could look with shops and paved area at the lower level and a link through to the shopping centre on the south. (Sketch viewpoints: see plan, top right.)



1/4 MILE

SHOPS
COMMERCE
INDUSTRY
OPEN SPACE
PUBLIC BUILDINGS



Figure 1



Figure 2



Figure 3



Figure 4

The Architects' Journal for February 28, 1952 [275]

FLATS

in BANDON ROAD, BETHNAL GREEN, LONDON, E.2

designed by DE METZ and BIRKS

The Park View Estate in Bethnal Green for the LCC is now partly completed and will provide a total of 267 flats, of which 5 per cent. are 1-room flats, 15 per cent. 2-room, 40 per cent. 3-room, 30 per cent. 4-room and 10 per cent. 5-room (kitchens and bathrooms being additional in each case). Pram sheds, playgrounds, laundries, shops and a communal centre sufficient for the needs of the whole scheme are also being built.

Looking north at the staggered three-storey block.



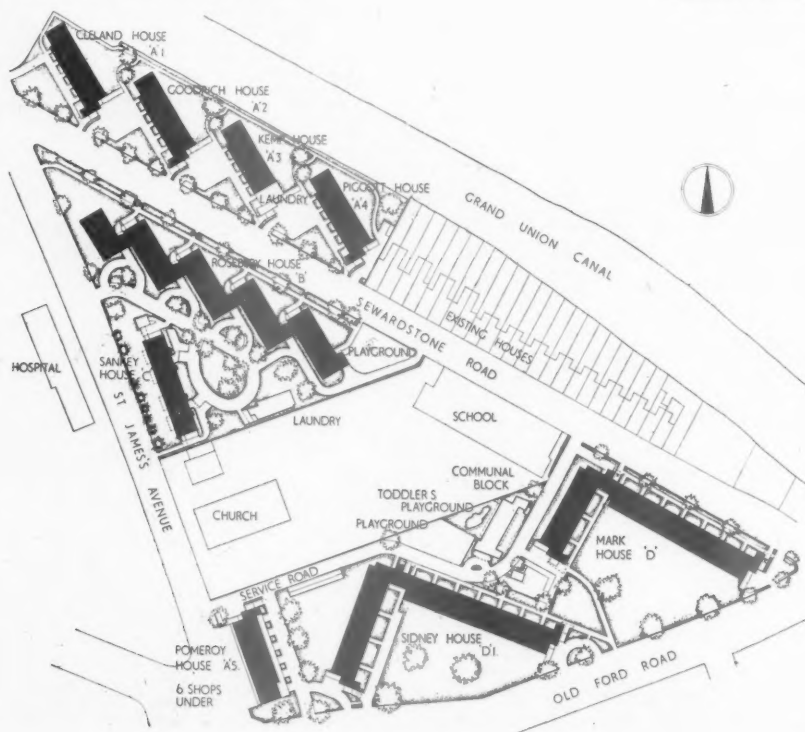


South-east corner of the three-storey block.

FLATS

in BANDON ROAD, BETHNAL GREEN, LONDON, E.2.

designed by DE METZ AND BIRKS



Site plan.

SITE.—The area is approximately 5.8 acres and there is a pleasant view to the north-west over the Grand Union Canal and Victoria Park. The site contained bomb-damaged property which has been cleared away. The state of the ground required pile



Part plan of block B (Scale: $\frac{1}{32}'' = 1'0''$)

foundations to be used for two blocks at the south end of the site.

PLAN.—For ease of planning and repetition of spans and units it was found convenient to group each type of flat plan into one wing with perhaps a variation at the end to form a stop or a junction with

WORKING DETAIL

FURNITURE AND FITTINGS : 13

CLERESTORY LIGHTING AND BOOKCASE : HOUSE AT PLEASANTVILLE, NEW YORK

Gibbons and Heidlmann, architects



The lighting trough, which illuminates upwards from below the level of the clerestory windows, is also open at the bottom where it runs above the bookshelves.

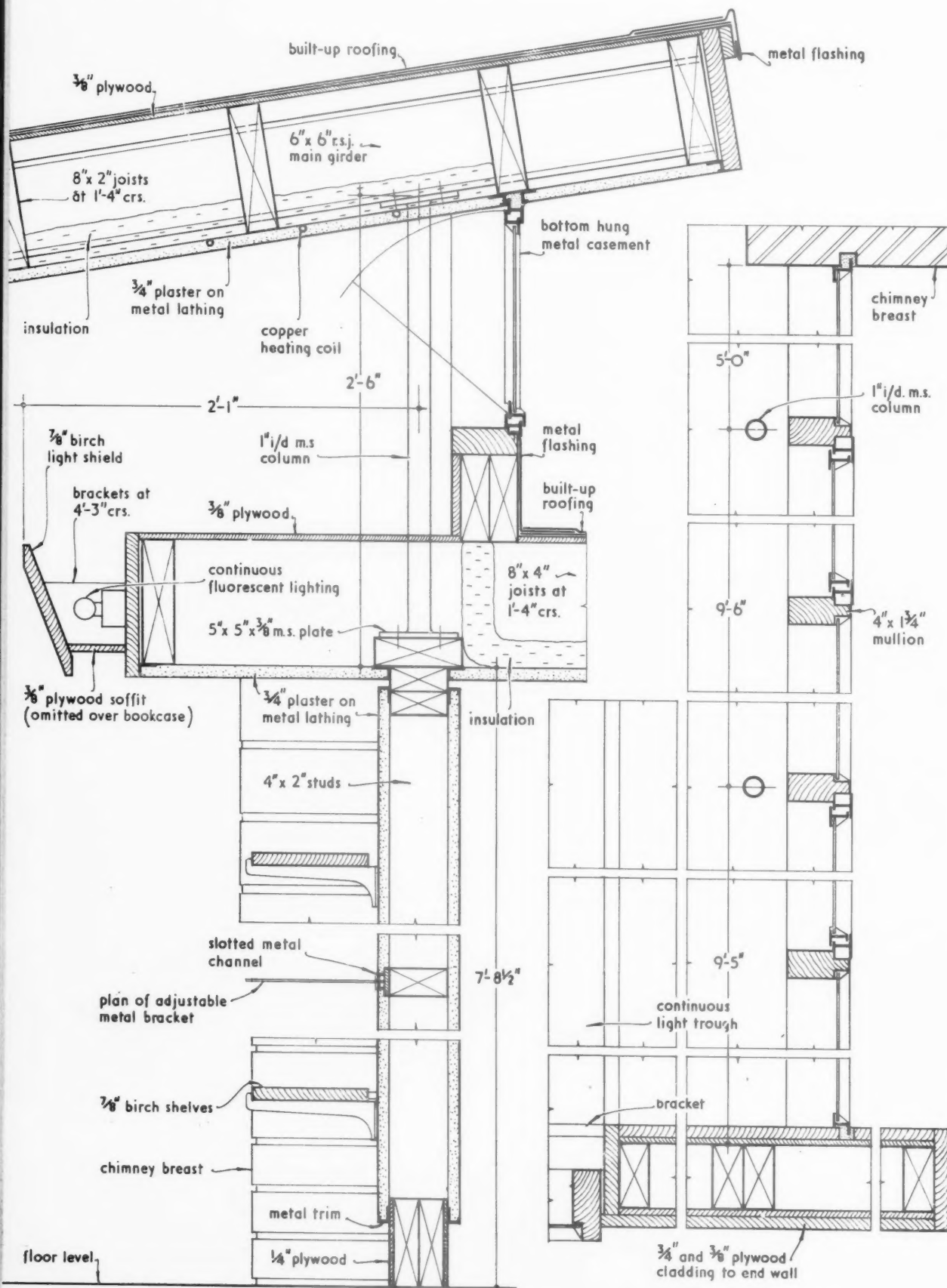
Photograph : Richard Averill Smith

WORKING DETAIL

FURNITURE AND FITTINGS: 13

CLERESTORY LIGHTING AND BOOKCASE: HOUSE AT PLEASANTVILLE, NEW YORK

Gibbons and Heidtmann, architects



SECTION THRO' BOOKCASE, CLERESTORY AND ROOF

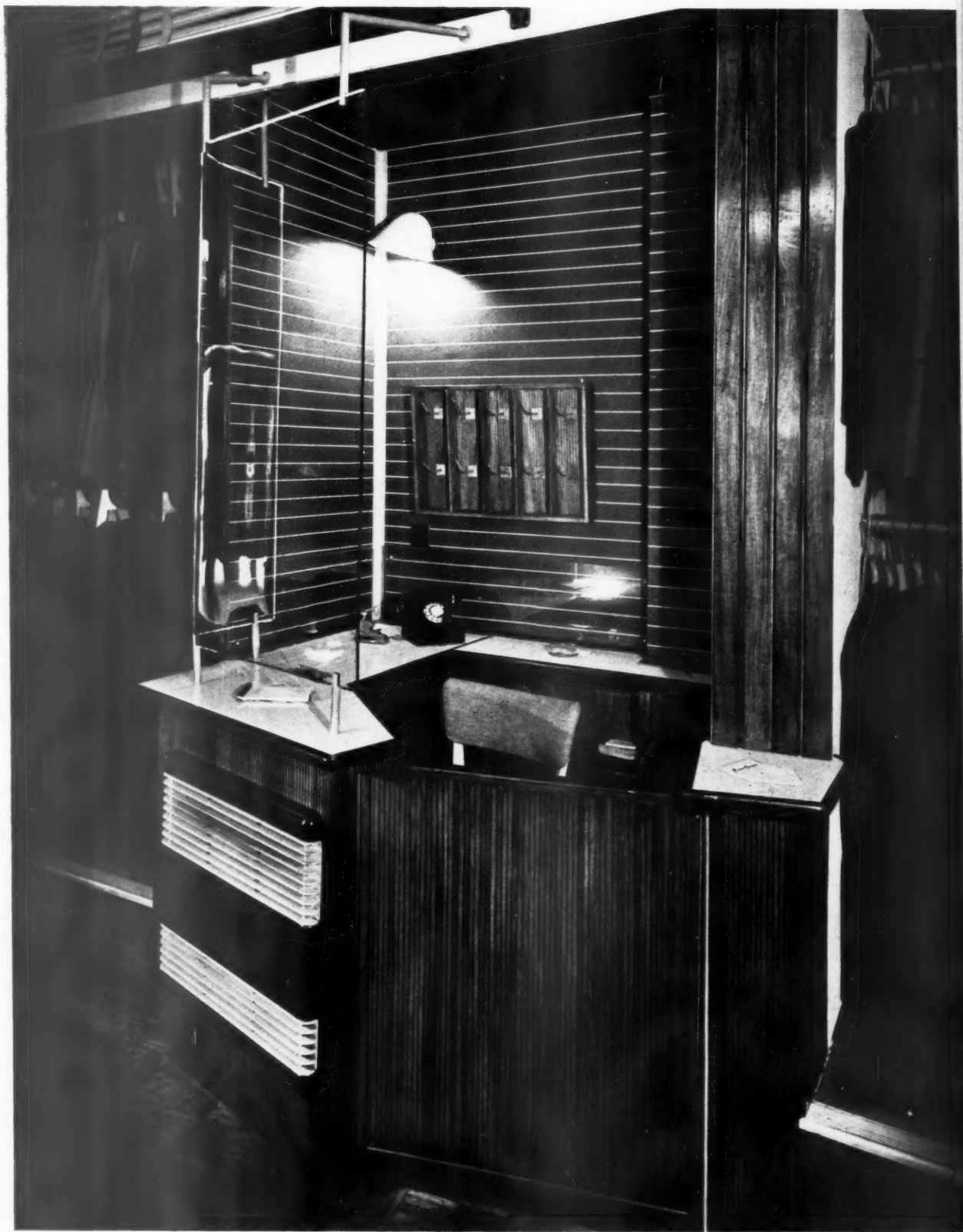
PLAN THRO' CLERESTORY scale $1\frac{1}{2}" = 1'-0"$

WORKING DETAIL

FURNITURE AND FITTINGS : 14

CASH DESK : SHOP IN LONDON, W.6

David Stern, architect



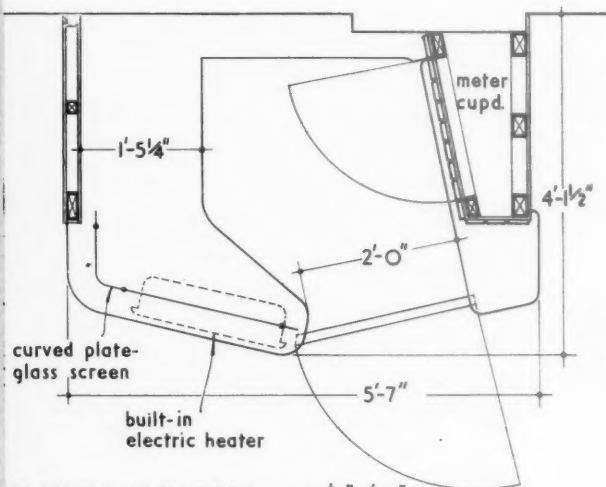
The desk, which is faced with ribbed walnut panelling, has a built-in electric heater in the front and a curved glass screen.

WORKING DETAIL

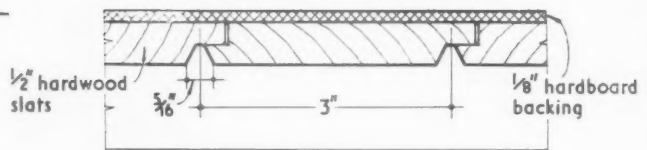
CASH DESK: SHOP IN LONDON, W.6

David Stern, architect

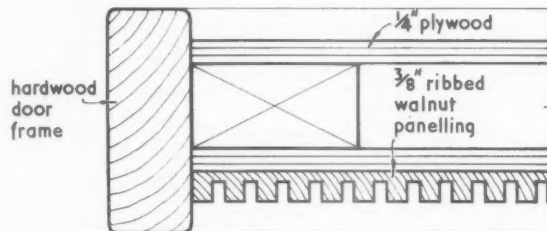
FURNITURE AND FITTINGS: 14



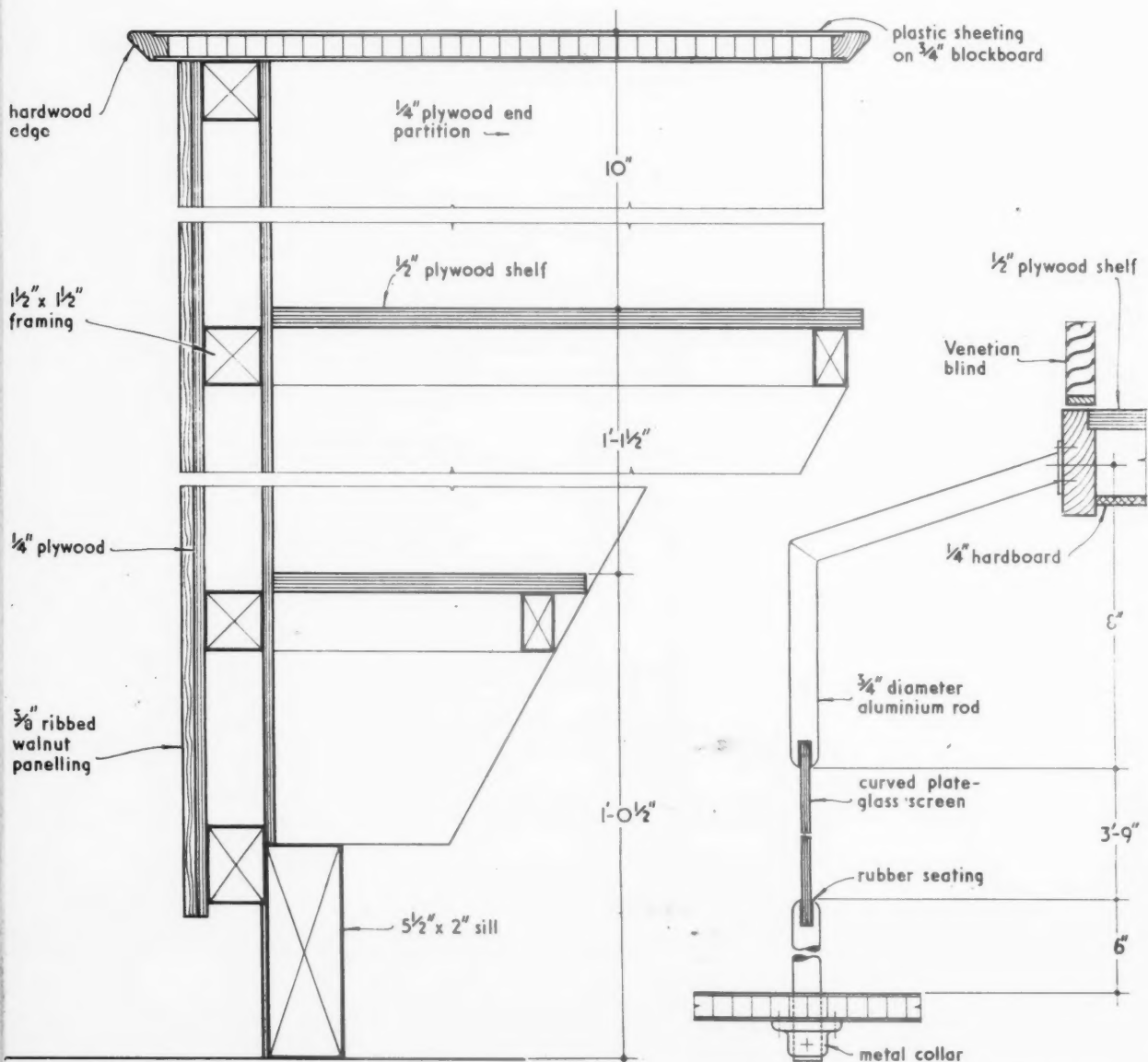
PLAN OF CASH DESK. scale 1/2" = 1'-0"



PLAN THRO' FRONT OF METER CUPD. scale 1/2 full size



PLAN THRO' FRONT OF DESK. scale 1/2 full size



SECTION THRO' FRONT OF DESK. scale 1/4 full size

SUPPORT TO GLASS SCREEN scale 1/4 full size

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another wing. The various types of plans, therefore, give, whether used singly (A blocks) or joined together, the desirable changes of height and shape required for building on a site of this size. In the case of A blocks, living rooms and main bedrooms are designed to overlook Victoria Park, although the aspect is north-west. In the B blocks the access balconies are placed on alternate sides of the wings to avoid overlooking and to provide a change in the elevational treatment.

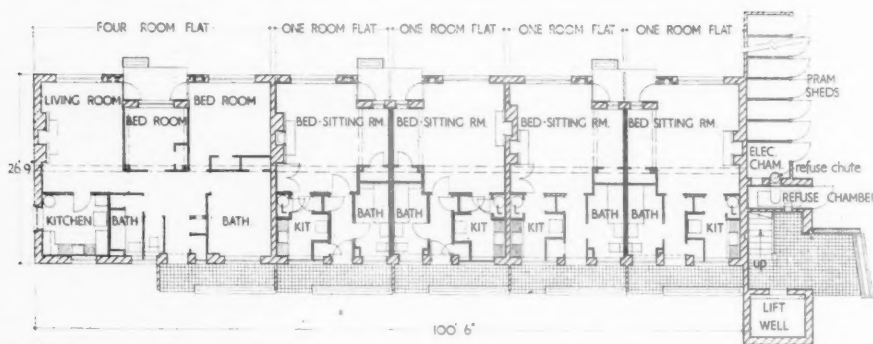
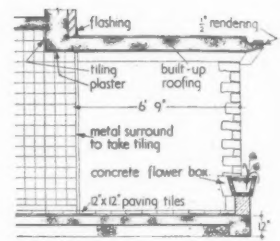
CONSTRUCTION.—This is generally of load bearing brickwork, with reinforced concrete and hollow tile floors and roofs, and a central spine of RC stanchions and beams. This was found to be the most economical and the quickest method of



Typical floor plan, block B [Scale: $\frac{1}{16}'' = 1' 0''$]

Looking north-east at the staggered three-storey block B. The balcony balustrades are reinforced hollow pots and metal frames with mesh infilling.



Ground floor plan, five-storey block A [Scale: $\frac{1}{8}$ " = 1' 0"]

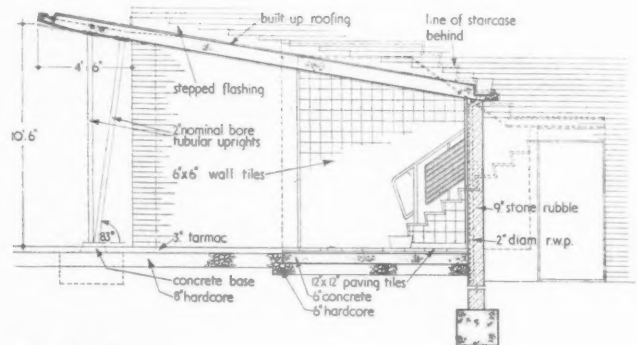
Section B-B

FLATS

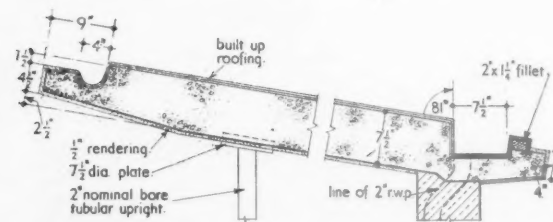
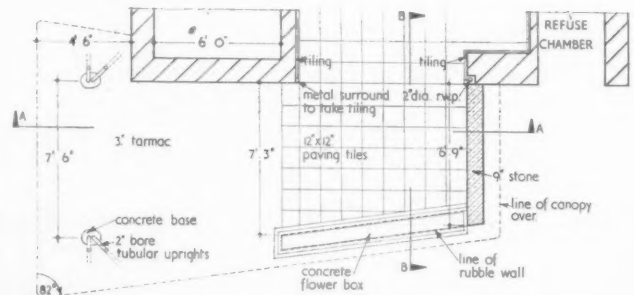
in BANDON ROAD, BETHNAL GREEN, LONDON, E.2
designed by DE METZ AND BIRKS

construction in view of the steel shortage. Internal party walls are 9-in. brickwork and partitions are 2-in. or 3-in. breeze blocks. All balconies are cantilevered from the floor slabs.

FINISHES.—Blue bricks are used on ground floor entrance balconies, red Leicesters for staircase towers and flower-boxes, and sand-faced primrose gaults elsewhere. Roof slabs are insulated with 2-in. lightweight concrete and finished with three layers of built-up bituminous roofing. Standard steel



Section A-A

Details of gutters [Scale: $\frac{1}{4}$ " = 1' 0"]Plan of entrance canopy, block A4 [Scale: $\frac{1}{8}$ " = 1' 0"]

Left, entrance canopy of typical five-storey block.

windows, painted cream, have precast heads and metal sills or precast stone surrounds. Where hollow ties are used as balcony balustrades they are rendered white and metalwork is painted cerulean blue. The hollow tiles, the ribs of which are set to give a vertical pattern, are reinforced with rods tied into the balcony slabs. Entrances to A blocks are accentuated by large slabs carried on V tubular steel supports and random rubble stone screen walls. Internally walls and ceilings are plastered and floors are finished with brown tiles. Living room fireplaces have surrounds of 9-in. sq. red concrete tiles with white joints, set in wood frames. All flats have built-in cupboards. Staircases



have a granolithic finish with buff quarry tile insets on landings. Metal balustrades are painted cerulean blue with black handrails. Staircase walls have egg-shell glazed cream tile dadoes to height of 5 ft. with walls above this height and ceilings distempered pale cerulean blue and terra-cotta respectively.

SERVICES.—Flats are heated by back boilers to

living room fires, which have slow combustion grates. Hot water is provided by an electric heaters fitted with thermostats. Refuse hoppers connected to a chute are provided on each floor. Laundries are equipped with electric washing machines, gas drying cabinets, coppers and sinks.

The general contractors are Lavender & McMillan Ltd. For sub-contractors see page 290.

View of five-storey block A4 from under entrance canopy. In the background is the staircase tower (left) and pram store (right) of block A3.

NURSERY SCHOOL

in RICARDO STREET, POPLAR, LONDON E.14

designed by YORKE, ROSENBERG and MARDALL

assistant in charge J. SOFAER

consulting structural engineers CLARKE, NICHOLLS and MARCEL

The nursery school in Ricardo Street, Poplar, which adjoins the primary school illustrated in the ARCHITECTS' JOURNAL for November 8, 1951, accommodates two groups of forty children in two playrooms. These rooms are partly divided into areas for two ages of children with separate lavatory accommodation for each. The nursery school is run independently of the main primary school except for the services.

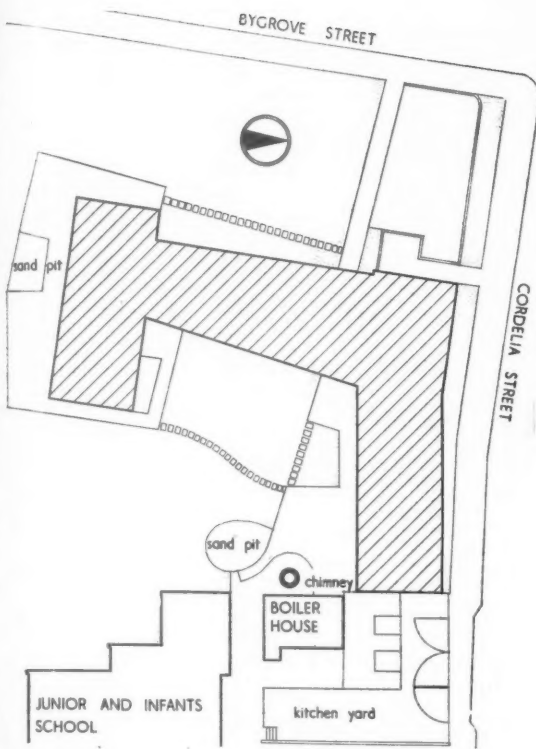
The large playroom in the north wing.



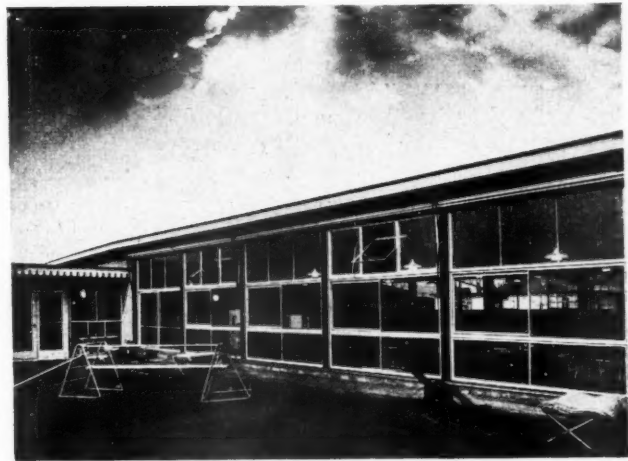
JUNIOR
SCHOOL
Site plan



Plan



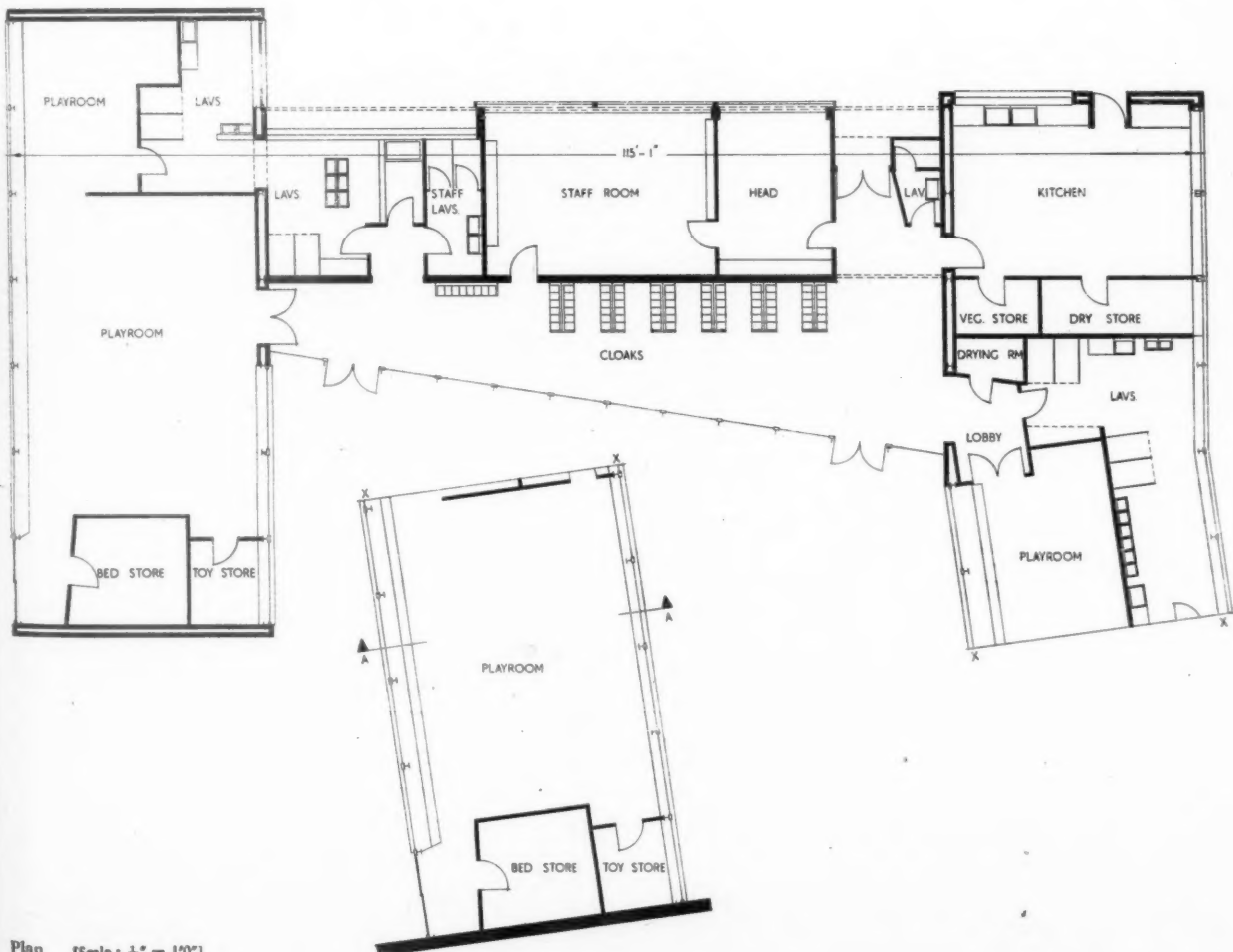
Site plan



Looking north-west with one of the playrooms on the right

SITE. There are large areas of grass with wet weather areas of tarmacadam, split up as much as possible. There are two sandpits and an artificial mound has been made for the children.

PLAN.—The building forms a partly enclosed courtyard with the existing primary school forming



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



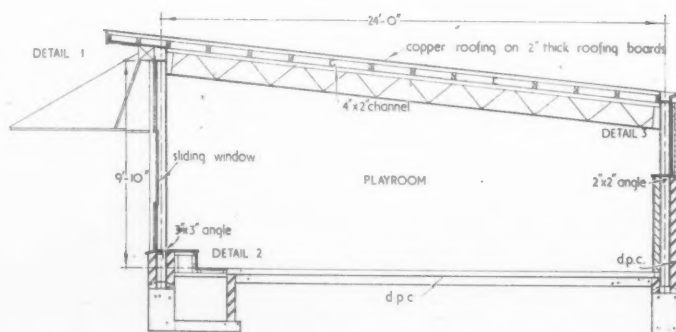
NURSERY SCHOOL

in RICARDO STREET, POPLAR, LONDON, E. 14

designed by YORKE, ROSENBERG AND MARDALL

the east boundary. There is a single group for staff rooms and a central kitchen, from which meals are taken into the play-rooms. Playrooms face south and the windows can be shaded with external striped roller sunblinds. Heavy toys are kept wherever possible in the stores and there is also a spacious blanket and bed store attached to each playroom.

Looking from one of the nursery playrooms past the boiler house chimney at a corner of the existing primary school.



Section A-A [Scale: 1/4" = 1' 0"]

CONSTRUCTION
built on
steel frame
between
block in
timber

FINISHES
and ceiling



Isometric
partition

copper



Detail



Detail



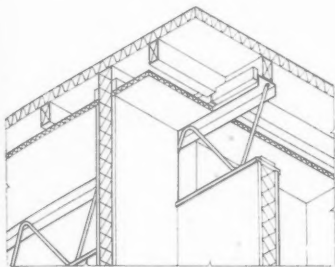
fascia

fibrous

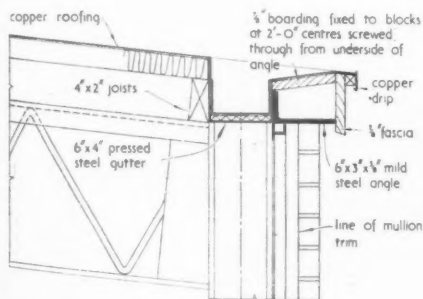
Detail

CONSTRUCTION.—The playroom blocks are built on an 8-ft. 3-in. grid and constructed in light steel framework. Roofs have timber joists spanning between the metal beams. The administration block is built up of load-bearing brickwork with timber joists.

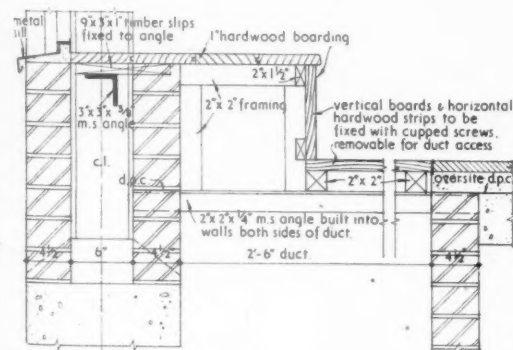
FINISHES.—Roofs are copper, fixed to strawboard, and ceilings are either woodwool or timber joists



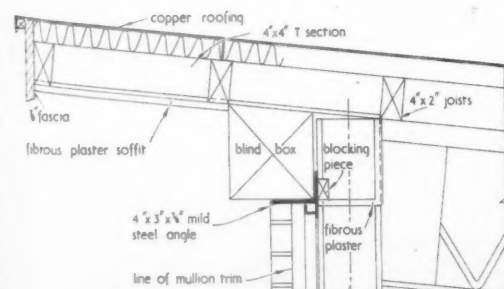
Isometric projection of junction of partitions



Detail 3



Detail 2

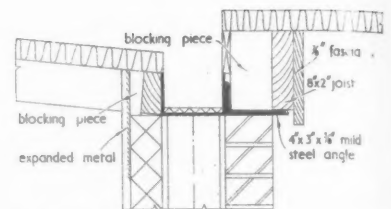


Detail 1 [Scale: 3/8" = 1' 0"]

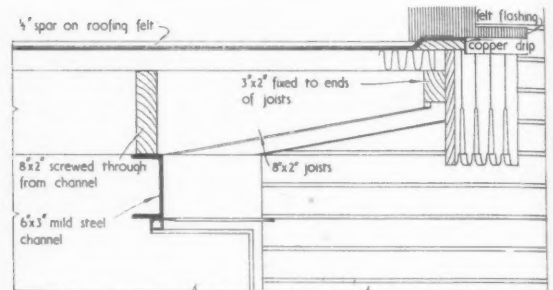
Below, entrance doors on the west facade with the window to the headmaster's room on the right. Centre, playroom in the south wing with stores in the background. Bottom, lavatory and w.c.



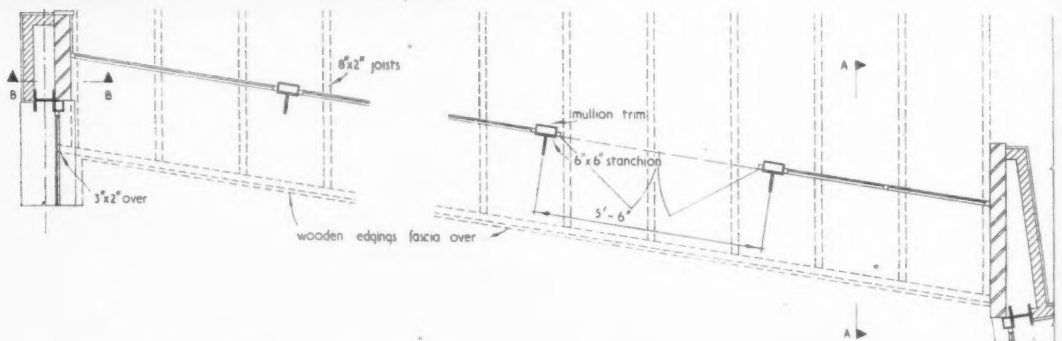
Below, the cloakroom area. Bottom right, link between east facade of cloakroom wall and south facade of playroom.



Section B-B



Section A-A [Scale: 2" = 1' 0"]



Plan of exterior wall of cloakroom [Scale: 1" = 1' 0"]

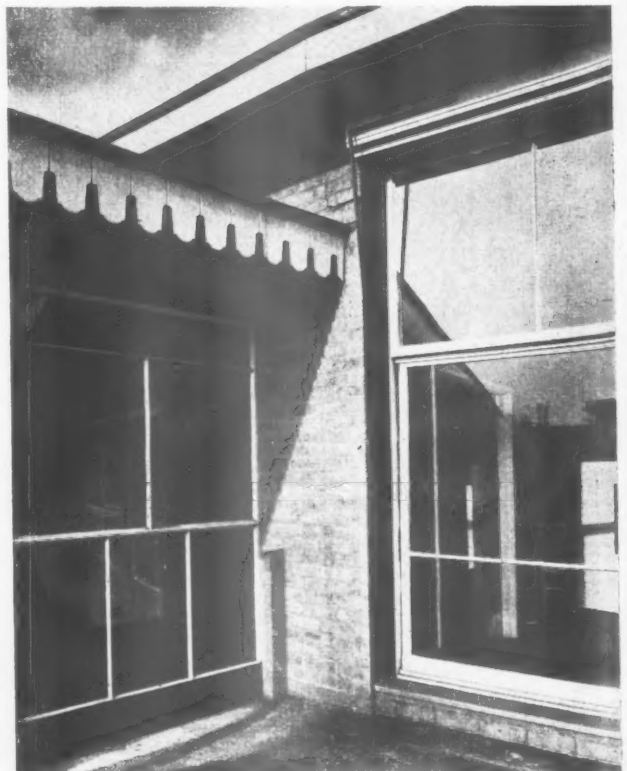
NURSERY SCHOOL

in RICARDO STREET, POPLAR, LONDON, E.14
designed by YORKE, ROSENBERG AND MARDALL

and strawboard left exposed. The administration block has a roof of three-layer bituminous felt laid on strawboard. External finishes are stock bricks, timber fascia, fibrous plaster soffits and a small area of tyrolean rendering. Internally, walls are either fair-faced, flint-lime bricks, cement rendered, lime plastered or papered with a Morris design wallpaper. Cills are terrazzo or concrete tiles. Floors are composition where there is floor heating, concrete tiles in the lavatories and asphalt tiles elsewhere. There is generally either a cork pin-up or a timber tongued and grooved dado.

SERVICES.—Heating is by sub-floor heating panels in the play areas and by radiators elsewhere.

The general contractors were Tersons Ltd. For sub-contractors see page 290.





The Late Sir Guy Dawber, R.A., Architect

T. H. Kingerlee & Sons, Contractors

The Zoc, Whipsnade Park

DAMPNESS was evident in the outer walls of the old building that was altered to form the Restaurant, and to protect the special interior decorations from this dampness the walls were replastered, in two coats, with a 2 to 1 cement mortar mixed with 5lb. of 'PUDLO' Brand waterproofer to each 100lb. of the cement. A final skimming of neutral gypsum plaster was applied to receive the decorations. 'PUDLO' Brand waterproofer was also used in the cement roughcast on two old cottages on this estate to remedy the dampness caused by the penetration of driving rains. Copies of the specifications worked to will be supplied on request.

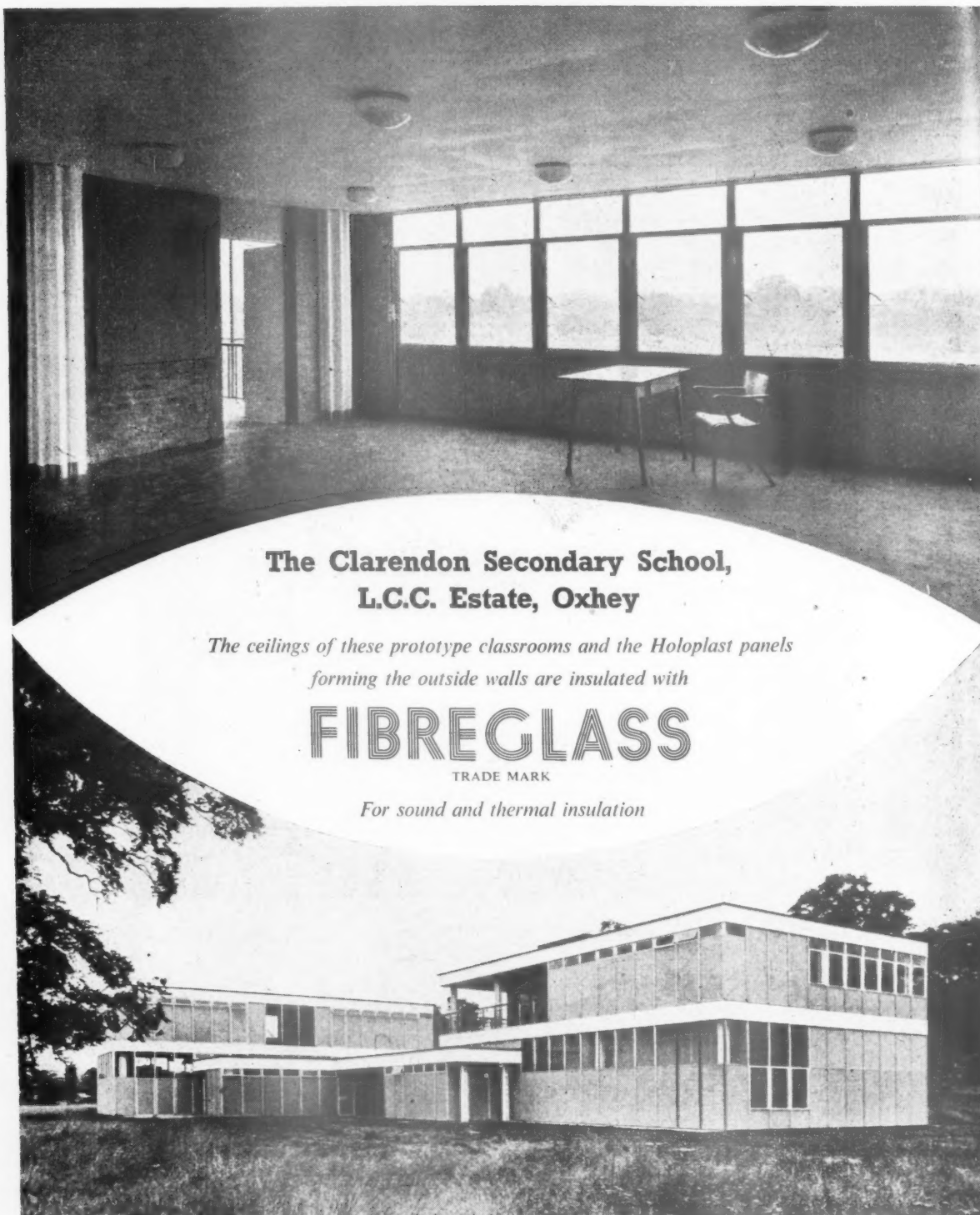
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TECHNICAL SECTION

The index of materials' prices, which Professor Bowen writes about in his article below, shows that the prices of imported materials have been rising more rapidly than those of home-produced materials. It might be thought that, in view of this, the building industry should make do with less materials from abroad. However, the building industry does not use a large proportion of imported materials and those it does use it has cut down to a minimum. There is, of course, no substitute for zinc for galvanizing (essential for nails, etc.), or for copper and lead for pipes and flashings. To cut down on asbestos fibre (for asbestos-cement goods) would simply increase the demand for zinc and lead. Lead, zinc, titanium, manganese and linseed oil for paint are vital. And although we could dispense, to some extent, with solid timber by using reinforced concrete (but thereby increasing the demand for steel), there are no alternatives to materials derived from timber, such as fibre-board, hardboard and the paper covering to plasterboard.

While architects should, at all times, economize in the use of materials, any appreciable reduction in the quantities of imported materials allocated to the building industry would create more bottlenecks and, thereby, increase still further the cost of building.

R. FITZMAURICE

This week's
special article

8 ESTIMATING index of materials' prices

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

Sharp rises took place in the prices of building materials during 1951. Although we can hope for some degree of stability during 1952, Professor Bowen, in the following article, expresses the fear that, if prices continue to rise, unemployment in the industry (and that, presumably, includes architects) will be prevented only by permitting more "luxury" building—an unfortunate solution at a time when "essential" building is being curtailed.

Since May, 1951, the Board of Trade has published two group index numbers, one for building materials generally and the other for house-building materials, i.e., selected building materials "weighted" appropriately to measure the percentage changes in the prices of the materials required for a typical traditional house.

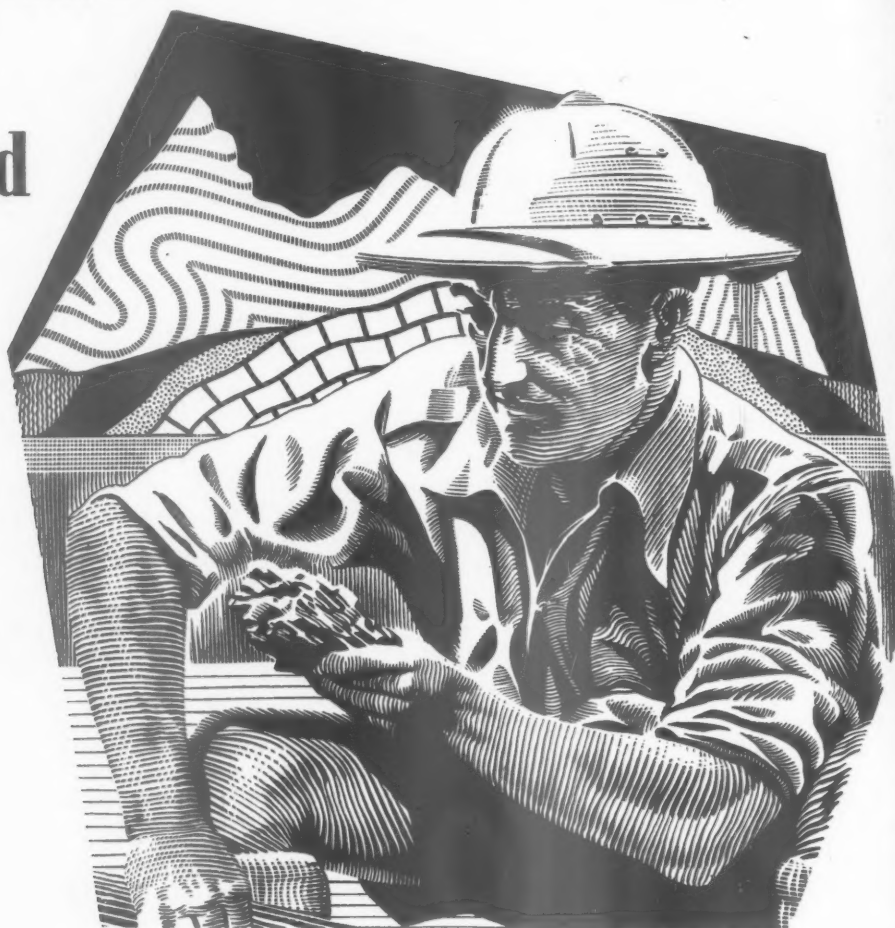
The results of these calculations, taken back to 1946, are given in the table on page 286. The main feature of this table, as of the graph on page 287, is

the acceleration of the rise in materials' prices in the second half of 1950, followed by the even more marked acceleration in the increase during the whole of 1951. It is a frightening thought that during 1951 the materials' index rose by 21 points, i.e., 19 per cent., and the housing materials' index rose by nearly as much. If the cost of materials in a house was £900 at the end of 1950, then during 1951 alone £250 has been added to the cost of a house. These figures are bad enough, yet when final

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costs come to be reckoned up, it is likely that many subsidized houses will be found to have cost as much as £1,800 in 1950, which implies a materials' cost of over £900, and a correspondingly greater increase.

CAUSES OF THE RECENT INCREASE

Some economists are trying to persuade us, for our own good, no doubt, that the present difficulties of this country are due *solely* to domestic inflation. It is true that too much consumption at home and too little production—with resulting inflation of prices—have contributed to our difficulties, but it is a gross over-simplification of the problem to put all the blame on domestic inflation. Many of the steepest rises in price have been due to commodities entering this country from abroad which have commanded inflated prices overseas as well as in the British market. For example, of the commodities covered by the index those whose prices have risen by 75 per cent. or more since 1949 are

BUILDING MATERIALS PRICE INDEX
(June 30, 1949 = 100)

All Building and Civil Engineering Materials		Housing Materials
1946, Quarter 1 ..	80	80
" 2 ..	82	83
" 3 ..	85	85
" 4 ..	86	86
Year average ..	83	84
1947, Quarter 1 ..	89	89
" 2 ..	93	92
" 3 ..	97	96
" 4 ..	98	98
Year average ..	94	94
1948, Quarter 1 ..	100	100
" 2 ..	100	101
" 3 ..	100	100
" 4 ..	102	102
Year average ..	101	101
1949, Quarter 1 ..	103	103
" 2 ..	101	101
" 3 ..	101	101
" 4 ..	103	103
Year average ..	102	102
1950, Quarter 1 ..	103	102
" 2 ..	103	103
" 3 ..	108	107
" 4 ..	111	108
Year average ..	106	105
1951, Quarter 1 ..	114	113
" 2 ..	125	124
" 3 ..	131	128
" 4 ..	132*	128*
Year average ..	125*	124*

* These figures are Professor Bowen's provisional estimates; they are subject to revision.

zinc, lead and copper sheets and pipes—all basic metals in heavy demand overseas. Paint and distemper, cardboard and insulation board, wallpaper, softwood, hardwood, plumber's brass-work, asbestos-cement products, asphalt and pitch mastic, and railway sleepers have all increased in price by more than 45 per cent. (though less than 70 per cent.) over the same period. On the other hand, the price of many domestically-produced materials has increased by less than 32 per cent., and some (road-making materials, roofing slates, sand and ballast, wall tiles, cement, lime, roofing felt, iron and steel products, ironmongery generally, and joinery) have gone up by less. The price of some other materials has advanced by less than 20 per cent. (stone, bricks, roofing and flooring tiles, sanitary fire-clay and earthenware, glass, concrete products, cast iron pipes and fittings, solid fuel appliances, gas and electrical appliances, metal windows, plastic mouldings, plywood, and electrical materials).

Thus the materials which have gone up least in price in the last two years are those which are under the most direct control of the State. They are materials which embody a good deal of British labour and, since in many cases they are heavy items, transport costs are involved as well. There has been inflation at home, but of quite a different magnitude from that of certain international prices.

PROSPECTS FOR 1952

The history of the Board of Trade index shows how similar the 1951 rise in materials' prices is to the previous steep rise that took place in 1946-1947. Then, too, the imported materials rose most in price at first. But later, the prices of domestically-produced goods rose insistently, and, in the third quarter of 1947, accounted for the major part of the increase in the index. History is about to repeat itself. After the increase in the price of internationally-traded commodities has spent itself, the consequences of wage-rate increases at home, and higher transport and fuel charges, may continue to force prices up inexorably.

Only very fundamental changes in the economic pattern of living can reverse this trend. Severe as the sum of the budgetary and other measures taken to reduce the average individual's expenditure are likely to be, there will still remain a considerable effective demand for building. The only hope now, as in 1947, is that materials' prices should increase more slowly than that of wholesale prices in general. The steep rise of 1946-47 was followed by a few years of comparative steadiness, although the trend was still upwards. A similar relative stabilization can be hoped for again, although *all* prices in the index were rising in the last quarter

of 1951, whereas usually some items are stable or even falling in price.

Even a mild degree of stability depends upon vigorous exercise of the power to control prices by the relevant government departments or, at the very least, upon their threatening to use such powers. Moreover, such relative stability can only be attained when the large, nearly-monopolistic concerns that make some of the domestically-produced items pass on the economies of large-scale production to the consumers of their products. Price stability depends on a cessation of the "panic bidding-up" of commodity prices on the international markets. Unfortunately, it is not yet clear whether the period of world shortages has or has not ended.

It is rash to make predictions, but it would seem safe to suggest that while materials' prices as a whole may still advance, some prices will be stabilized and others may decline, so that the rate of increase in the index should be less during the current year than it was in 1951. Prices of materials are now, indeed, so high that a general adjustment of one kind or another would seem to be unavoidable. Even if we were not in the middle of a general economic crisis, something would have to be done to ease the enormous additional burden on local authorities' finances (and, hence, on the rate-payers) and on other public and private funds threatened by the recent increases.

THE ALTERNATIVES

There are, broadly, only two ways of meeting the present high prices: by inflating incomes so that they can be paid, or by cutting down the demand for materials. The inflation of the appropriate "incomes" means raising more money from the tax-payer or rate-payer, or from the private firm or individual who wishes to build, or allowing borrowing on easier terms. This last possibility is, however, contrary to the general financial policy now in force, and a heavy increase in rates or, indeed, in national taxes (for this purpose), is not practicable. There only remains, of these alternatives, the direct encouragement of expenditure on building out of private pockets—perhaps the extended licensing of private-enterprise house-building may be regarded as a step in this direction. But general policy is, on the whole, unfavourable to private capital expenditure. An increase in monetary demand seems unlikely to be realized.

Thus, there only remains the other alternative: to cut down demand, until such time as materials' prices are more reasonable.

How can this be done, and full employment in the building industry simultaneously maintained? That is going to be the central issue of the next year or two. The easy answer is, of course, that rearmament requirements will use

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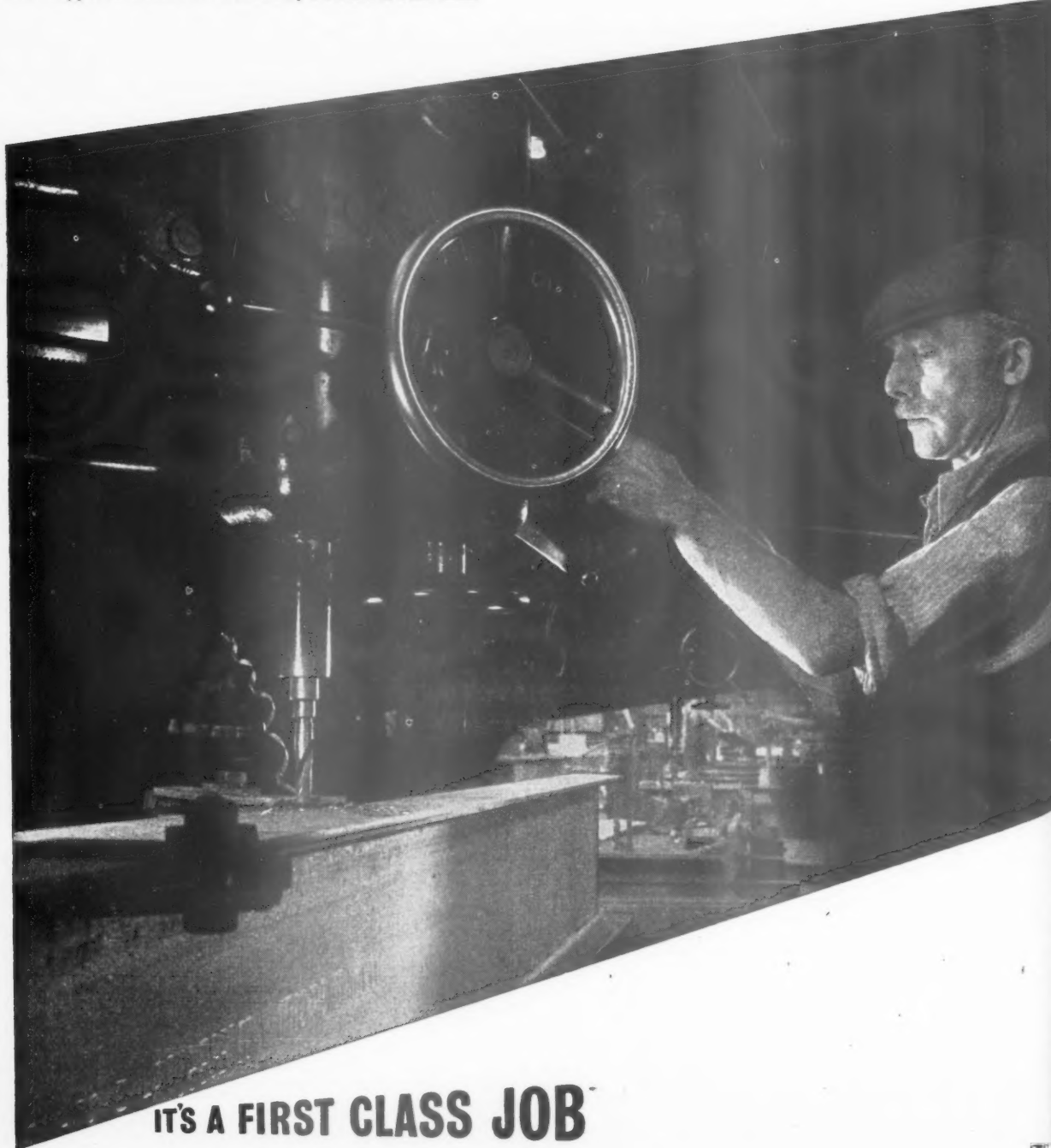
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up all available building resources. But the present high prices of building materials (and also of building labour) are going to restrict repair programmes as well as new building. All the labour so set free will not be in places, or otherwise suitable, for re-absorption on re-armament schemes.

More licences of all kinds may well ease the period of transition. But it will not be edifying to view luxury-building and decorations work proceeding on a

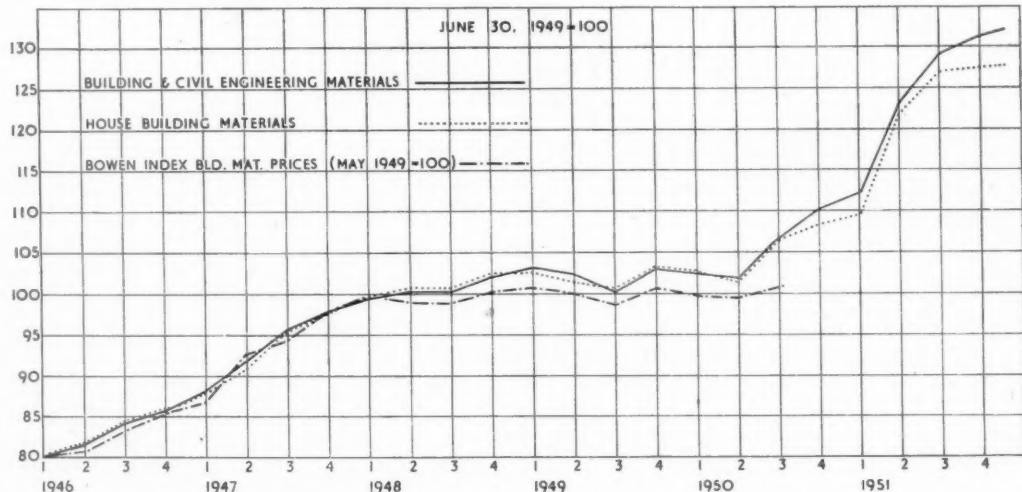
large scale at the same time as the school building programme is slashed (at the cost of educational efficiency and on the grounds that the country "cannot afford" the expenditure).

The fact must be faced that the new level of prices being established will soon exhaust the maintenance reserves of public authorities and of private firms, and will choke off, or cause to be postponed, much of the demand for new building as well. This will result in tem-

porary pockets of building unemployment unless those who *have* money to spend are allowed to spend it freely on building—which may lead to some outstanding social anomalies. Whichever policy is followed, 1952 is going to be a year of difficult adjustments to the changed level of building costs. Schemes for the more economical use of materials are likely to become, once more, very widely discussed.

IAN BOWEN

Indices of prices of building materials (June 30, 1949 = 100). Source: Board of Trade Journal.



INFORMATION CENTRE

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

9.24 design: general FIRE PROTECTION

Fire Protection: The Architect's Responsibility. E. L. Bird. (RIBA Journal. Dec. 1951.)

Excellent general paper on fire protection of buildings from the architect's point of view.

The author of this paper is an acknowledged expert on the subject and he presents a valuable summary of the fundamental points relating to the fire protection of buildings. Except for a few illustrative examples, the paper does not go into details but, rather, deals with the subject broadly. There is a brief, but extremely convincing, introductory section explaining why fire risk is much greater now than in the past. Next, there is a short description of the growth of the organizations dealing with fire protection. There are now two main bodies—

the Joint Fire Research Organization, with its Fire Testing Station at Eistree, and the Fire Protection Organization, which studies fire technology and gives advice throughout the country. There is a reference to fire protection measures, such as sprinkler systems and the Fire Service.

The bulk of the paper is given to an explanation of the fire testing of building elements, the fire risk in terms of fire load, which varies according to building usage, and the very important subject of the fire grading of buildings. Some interesting references are made to houses and their fire risk, with a severe warning, from experience with prefabs., against the indiscriminate use of new building materials and methods without their possible effects on fire risk having been investigated.

15.95 materials: applied finishes and treatments IN-SITU FLOORING

In-situ Flooring. BS C of P 204 (1951). (British Standards Institution. 7s. 6d.)

A very useful document. Possibly misnamed, as many other floors are laid *in situ*, but it covers most types of *in-situ* jointless floor finishes.

Floor laying is seldom adequately specified or supervised. This Code is most useful, as it describes in considerable detail the materials used and the methods of laying floor finishes in concrete, granolithic, terrazzo, asphalt, pitch mastic, cement rubber-latex and magnesium oxychloride.

All specifications should refer to the appropriate Code as a matter of course but, because this Code contains alternatives, it is not adequate only to refer to the code by number. Nevertheless, it should help the architect to write a good specification quickly and briefly. Every architect will be able to learn something new from this document.

15.96 materials: applied finishes and treatments PAINTING

Painting Asbestos-Cement. BRS Digest No. 38. (HMSO. Jan. 1952. 3d.)

General description of difficulties, types of paint and their uses.

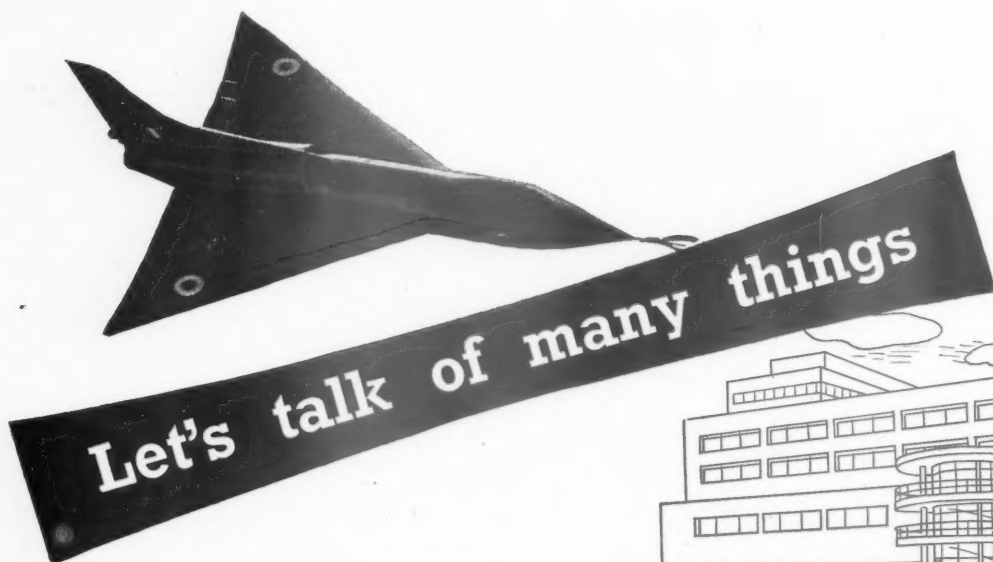
Although most asbestos-cement goods are left unpainted, BRS receives a large number of enquiries asking how asbestos-cement should be painted. The difficulties which occur arise from the alkalinity of the material, its slight porosity (leading to flaking) and, to some extent, its uneven suction. This Digest discusses these troubles and ways of overcoming them. Four classifications of paint are given and their uses are discussed. There are also useful notes on how to choose the right paint for specific positions, such as roofs, external cladding, etc.

This is a useful and informative Digest. A curious point arises, however, in connection with painting with creosote. It is suggested in one part of the Digest that this is not very durable and, also, that it is likely to affect the durability of the asbestos-cement. But, elsewhere in the Digest it is suggested that creosote can be used to tone down the colour of roof sheeting.

16.81 materials: miscellaneous WOODWOOL

Wood Wool Building Slabs. BS 1105:1951. (British Standards Institution. 2s.)

Revision of 1943 BS. Omits the little-used reinforced type; includes "Normal" and "Heavy Duty." An additional thickness of 2½ in. added to the range. Dimensions, tolerances, weights, load-testing.



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16.82 materials: miscellaneous HOLLOW BLOCKS

Hollow Clay Building Blocks. BS 1190: 1951. (British Standards Institution. 2s.)

Revision of earlier Standard. Includes addition to height range to bond with deep bricks, also revision to tests. Covers structural and non-structural wall blocks and also types for floor and roof construction.

17.84 construction: general REINFORCED CONCRETE

The "Covermeter"—Apparatus for measuring the depth of reinforcement below the surface of hardened concrete. P. E. Halstead. (Cement and Concrete Association Research Note. Rp.5. (5/51).)

Method of determining position of and cover to reinforcing bars in completed concrete structures, of interest to architects and engineers.

It is sometimes necessary to cut back concrete to check the position of reinforcing bars. The ensuing "making good" leaves a permanent visible patch in the concrete. The "Covermeter" is primarily intended to indicate the cover to a known diameter bar, but can also indicate the longitudinal axis of the reinforcement and its exact location with considerable accuracy, irrespective of size of bar or type of steel employed. The apparatus can be contained in a box 5 in. x 5 in. x 6½ in. and requires a supply of electricity from mains or accumulator.

The cover is indicated directly on a dial and the instrument can be used by an unskilled operator. The instrument covers bar sizes up to 2-in. dia., but for 0.1-in. wire, as used in prestressed beams, special calibration of the indicator is required.

18.96 construction: theory FOUNDATION DESIGN

Foundations for Houses and Other Small Structures. W. H. Elgar. (Architectural Press. 1951. 12s. 6d.)

Text book on earth pressures and foundation design intended for architects and builders. 92 pp. 51 diagrams.

Most modern text books on soil mechanics tend to bog down the reader in a morass of definitions and formulae which allow only the student of that subject to struggle through. Mr. Elgar, however, although his book goes sufficiently deeply into the subject to give all the information required to design foundations for houses and other small buildings, has presented the information in a way which no architect should find any difficulty in following. He gives a brief survey of the general effects of loading on soils, he deals with the physical properties of different soils and he explains the design of foundations, including piles and rafts. References to the LCC Regulations apply to the 1948 edition and will require slight revision in some cases to meet the proposed 1951 edition.

19.141 construction: details STEEL WINDOWS

Steel Windows for Industrial Buildings. BS 1787: 1951. (British Standards Institution. 4s.)

Material, construction, interchangeability, holes for fixing glazing ventilators and fittings, coupling members, Rust proofing. Glass sizes. Tables of types with sizes. Details of sections, fixing, etc.

19.142 construction: details FIRE CHECK DOORS

Fire-Check Flush Doors and Frames. BS 459: Part 3: 1951. (British Standards Institution. 2s.)

Revised edition; now includes doors and frames for one-hour as well as half-hour fire resistance.

This is an important BS, as it gives results of scientific research on a subject which has not been treated on a very sound basis in the past. It is worth noting that the doors covered by this standard are *not* solid. The assumption that solid doors are essential for fire resistance can, therefore, be dropped, provided local authorities will agree to accept these BS doors. It is important to remember that fire resistance depends not only on the door but also on how the door fits into its frame. Rebates must be larger than usual.

19.143 construction: details ROOFS

Small-span Roofs, Recent Developments in Construction, Insulation and Cladding. J. Stroud Foster. (Building Digest. Dec. 1951.)

8 pp. illustrated article on construction and finishes. Reasonable outline description of types developed in recent years. Rather too general to be of great use.

22.51 sound: insulation and acoustics ABSORPTION

Sound Absorbent Treatments. BRS Digest No. 36. (HMSO. Nov. 1951. 3d.)

General use of absorbents. Treatment of auditoria, noise reduction, types of absorbent, reverberation time. Some practical considerations.

In this Digest is briefly outlined in simple language, the recent scientific investigation into the use of the "non-reflecting" treatments which are now employed both for the refinement of sound quality in auditoria intended for music or speech and for the reduction of the noise level in noisy rooms. The Digest gives the relative values of the alternative surface treatments now available—information which should be of interest to the practising architect. The three main types of absorbent—porous materials, resonant panels and cavity resonators—are described.

As calculations of reverberation times form an essential step in design, the incompleteness of available data on absorption coefficients has often been found frustrating. It has seldom been possible to find values for all the surfaces met with, and experience has had to play a large part in calculating reliable results. A table of coefficients which accompanies the Digest should be useful, although it is pointed out that the coefficients should be regarded only as average, or representative, owing to variations in detail, fixing and decorative treatment. There appears to be an error at the top of the table as it is reproduced in the Digest. The figure at the top of one high frequency column is given as 200 cycles/second, instead of 2,000.

28.18 miscellaneous DIRECTORY OF FIRMS

The Directory of British Clayworkers. (The British Clayworker. 1951. 10s. 6d.)

Useful list of firms making clay products, but there are notable omissions as list is made up only from the subscription files of the British Clayworker.

INFORMATION CENTRE INDEX FOR 1951

An alphabetical index covering Information Centre items and special articles published in the Technical Section during the twelve months ended December 31, 1951, is being prepared. Readers who wish to have a copy—it is free of charge—should complete the form below and post it to the Technical Editor, THE ARCHITECTS' JOURNAL, not later than March 13, 1952

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Buildings Illustrated

Department Store for Marks and Spencer Ltd., in Fore Street, Exeter, Devon. (Page 273.) Architects: Lewis & Hickey, F./A.R.I.B.A. Interiors of staff rooms, James Gardner, O.B.E., R.D.I. Consulting engineer (structure and foundations), David W. James Carrington, A.Sc. General contractors: Bovis Ltd. Sub-contractors: piling, The Cementation Co. Ltd.; electrical work, Bower Engineering Works Ltd.; structural steel, Moreland Hayne & Co. Ltd.; heating, hot water system and ventilation, C. B. Jackson & Co. Ltd.; hollow tile floors and RC work, Diespeker & Co. Ltd.; plumbing, A. Scull & Son Ltd.; lifts, Wm. Wadsworth & Sons Ltd.; windows, Crittall Manufacturing Co. Ltd.; reconstructed stone, Empire Stone Co. Ltd.; asphalt, Rock Asphalt Co. Ltd.; waterproof rendering, Quickset Water Sealers Ltd.; terrazzo, Diespeker & Co. Ltd.; shopfront, Holtum & Green Ltd.; marblework, J. Whitehead & Sons Ltd.; fibrous plasterwork, Tomei & Sons Ltd.; plastering, H. G. Williams; "Semastic" floors, Semtex Ltd.; wall and floor tiling, Carter & Co. Ltd.

Flats on the Park View Estate, Bethnal Green, London, E.8, for the LCC. (Pages 275-279.) Architects: de Metz & Birks, F./F.R.I.B.A. Quantity surveyors: Veale & Sanders. General contractors: Lavender McMillan Ltd. Clerk of works: S. F. Powell. General Foreman: N. J. Constant. Sub-contractors: dampcourses, Treetol Ltd.; reinforced concrete, D. Pell & Co. Ltd.; bricks, W. T. Lamb & Son Ltd.; artificial stone, Costain Concrete Co. Ltd.; Clarincrete Products Ltd.; roofing felt, Permanite Ltd.; glass,

Faulkner Green & Co. Ltd.; patent flooring, Marley Tile Co. Ltd.; laundry heating, M. & J. Lossos & Co. Ltd.; grates, Sidney Flavel & Co. Ltd.; electric wiring, Ayr Engineering & Constructional Co. Ltd.; plumbing, Dent & Hellyer Sanitation Ltd.; door furniture, H. & C. Davis & Co. Ltd.; casements, Crittall Manufacturing Co. Ltd.; metalwork, Gardiner Sons & Co. Ltd.; joinery, Woodworth Joinery Ltd.; kitchen fittings, John Dight; lifts, Evans Lifts Ltd.

Nursery School, Ricardo Street, Lansbury Neighbourhood, Poplar, London, E.14. (Pages 280-284.) Architects: F. R. S. Yorke, E. Rosenberg & C. S. Mardall F./A.R.I.B.A. Associate: T. R. Evans, A.R.I.B.A. Assistant-in-charge: J. Sofaer. Structural engineers: Clarke, Nicholls & Marcel. Heating engineers: Oscar Faber & Partners. General contractors: Tersons Ltd. Sub-contractors: roofing, William Briggs & Sons Ltd.; sanitary fittings, Stitsons Sanitary Fittings; copper, Frederick Braby & Co.; sprayed ceilings, Meta Mica Ltd.; "Accotile" floors, Armstrong Cork Co. Ltd.; ceilings, Sundeala Board Co.; Venetian blinds, Tidmarsh & Sons; doors, Gliksten Doors Ltd.; garden layout, Grassphalte Ltd.; windows, Williams & Williams Ltd.; handrails, Clark, Hunt & Co.; joinery and fittings, Rippers Ltd.; fencing, Bayliss, Jones & Bayliss Ltd.; w.c. partitions, mosaic and terrazzo, Precast Co.; roofs, Stramit Boards Ltd.; fibrous plaster, Dejonges; flooring, Granwood Flooring Co. Ltd.; structural steel, Hills (West Bromwich) Ltd.; ironmongery, Rennis Ltd.

A.R.I.C.S. The style and title of the practice, M. E. and O. H. Collins, architects and surveyors, will continue as before.

A. J. Hale, L.R.I.B.A., has moved his office from 44, Broxholm Road, West Norwood, S.E.27, to 22, St. Stephen's House, Victoria Embankment, London, S.W.1. (Tel.: Whitehall 6542.)

Messrs. W. S. Willan, D. A. Stewart and K. Waite have opened an office at 9, King Street, Dover, where they will be pleased to receive trade catalogues. This office is an addition to those at 127, Sandgate Road, Folkestone, and 23, Dane John, Canterbury.

The practices of Messrs. Basil Sutton and John Griffin, F./A.R.I.B.A., of Newbury, and that of Mr. Patrick Sweetnam and the late Mr. John Osborne, A./L.R.I.B.A., of Hungerford, have been merged. The new partnership will be known as Sutton, Griffin & Sweetnam, and will be carried on from 87, Northbrook Street, Newbury, and 107, High Street, Hungerford. The firm will be pleased to receive catalogues at both offices.

The present address of Lovell & Hanson Ltd., manufacturers of the "Hanlo" compression joint, is Hanlo Works, 332, Spon Lane, West Bromwich, Staffordshire; not the address given in "The Industry" in the JOURNAL for February 7, 1952.

Messrs. Troughton and Young, Ltd., supplied electrical fittings for The Building Centre, Store Street, W.C.1, which was illustrated in the JOURNAL on January 24.

Messrs. Gerald F. Jones, O.B.E., F.R.I.C.S., F.A.I., F.I.A.R.B., and G. Dennis Sykes, M.A. (CANTAB.), A.R.I.C.S., M.R.SAN.I., registered architect, are now practising as surveyors and architects at 14, New Bridge Street, E.C.4. (Tel.: City 5241/2.)

Announcements

Mr. O. H. Collins, F.R.I.B.A., F.R.I.C.S., of 115, Old Broad Street, London, E.C.2, has taken into partnership Mr. M. Glicker,

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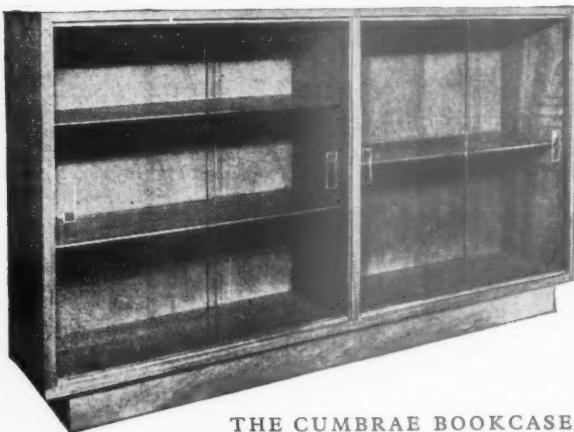
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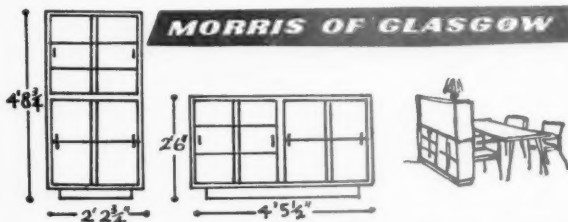
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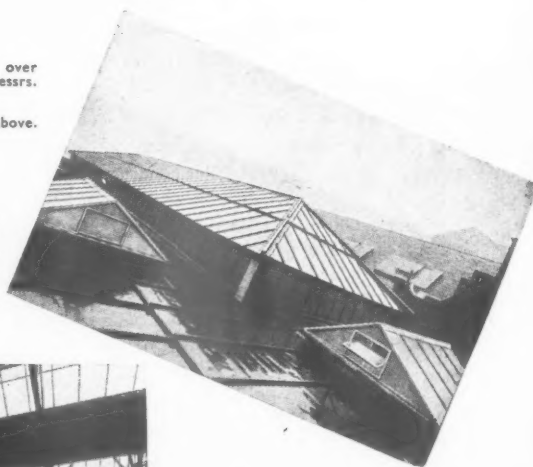
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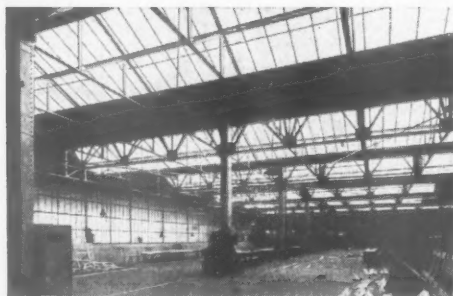


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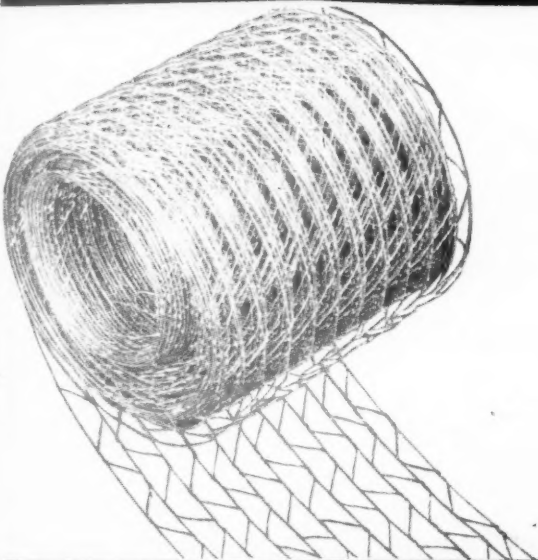


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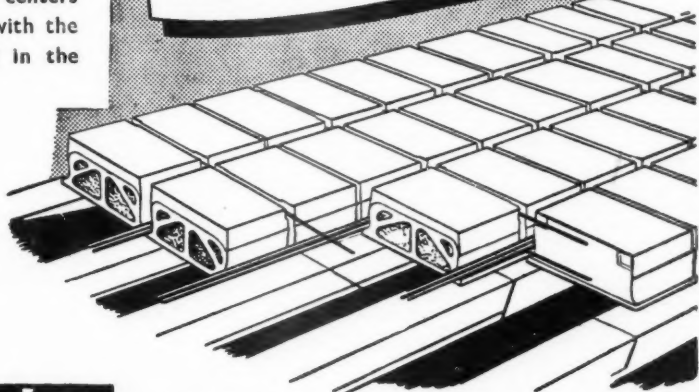
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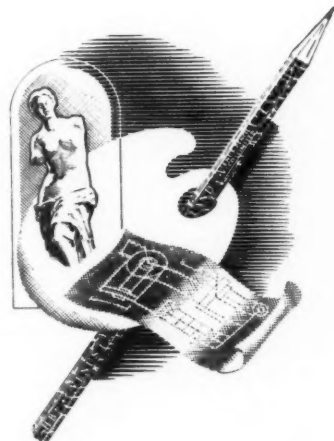
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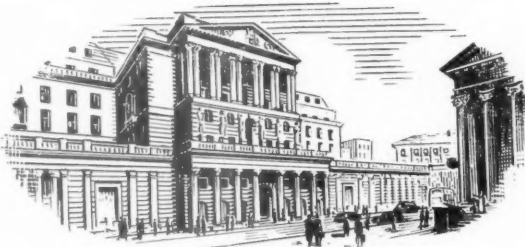
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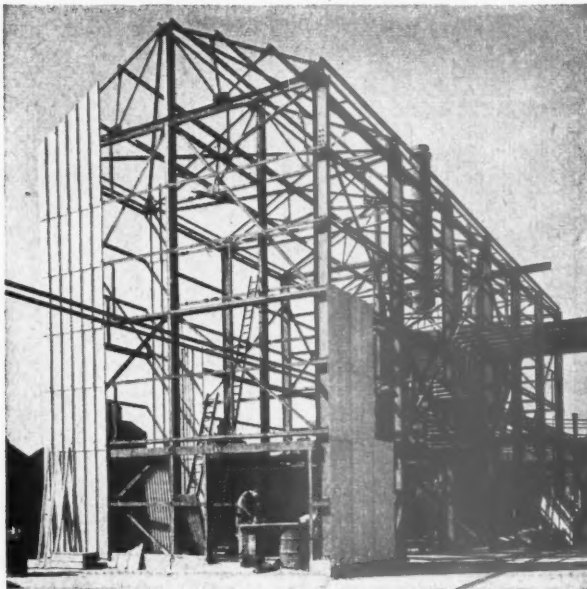
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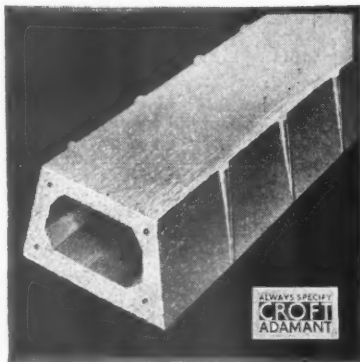
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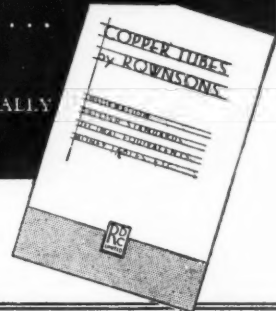
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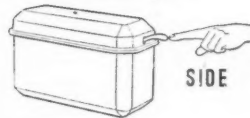
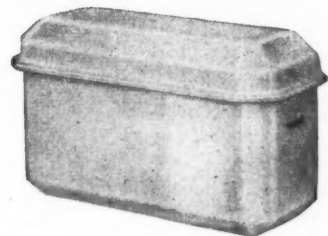
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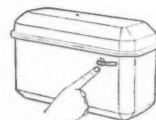
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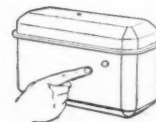
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THE PURPOSE of this book is to show what are the essential qualities of a good exhibition, and how to achieve them. It contains over 270 illustrations—photographs, drawings and plans—of well-designed recent exhibitions grouped under 'Trade Fairs', 'Public Exhibitions', 'Propaganda Exhibitions', 'Travelling Exhibitions', and 'National and International Exhibitions'. The technique of exhibition design is covered comprehensively and in detail. Each chapter is written by an expert in his own field. The mass of information the book contains will be of value equally to the professional exhibition designer and to the exhibition promoter. Bound in full cloth boards. Size 9½ ins. by 7½ ins.; 190 pages; over 280 illustrations. Second, revised, edition. Price 25s., postage 9d.

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THIS BOOK BEGINS with a description of the Swedish native building types and the Swedish wood tradition. This serves as an introduction to a comprehensive and beautifully illustrated survey of contemporary Swedish architecture. Every aspect of this new movement is examined, from housing to the latest aeroplane hangars, from site-planning of the new suburbs to tram and bus shelters. Houses (prefabricated and otherwise), schools, churches, hospitals, concert halls, cinemas, public buildings, sports buildings, museums, shops, restaurants and factories are magnificently illustrated and fully discussed. The book ends with some hitherto unpublished illustrations of recent Swedish bridge architecture. Bound in full cloth boards. Size 11½ ins. by 8½ ins.; 280 pages; 7 pages in full colour and nearly 700 monochrome illustrations from photographs and drawings. Price 45s. net, postage 1s. 1d.

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TO UNDERSTAND the traditional plan adopted for the new Chamber of the House of Commons we have to go back to 1547 when the King's chapel of St. Stephen's became the home of the Commons. Dr. Hastings makes a brilliant and learned reconstruction of this place where so many high events and great Parliamentarians moved; he also describes Barry's Chamber and that opened in 1950, designed by Sir Giles Gilbert Scott, showing how the choir-stall seating plan has continued unchanged through the centuries. Bound in full cloth boards. Size 8½ ins. by 5½ ins. 200 pages with 78 illustrations. Price 12s. 6d. net, postage 6d.

English Panorama. By Thomas Sharp, M.A., D.Litt.

THE FIRST carefully studied and original account of the evolution down the centuries of the English scene in town and countryside, this book ends with a penetrating analysis of the problems of town and country planning which now confront us. First published in 1936, it has now been revised with much new material and is almost entirely newly illustrated. Bound in full cloth boards. Size 8½ ins. by 5½ ins. 148 pages, with over fifty half-tones and line illustrations. Price 12s. 6d. net, postage 6d.

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

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WARWICKSHIRE COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT.

Applications are invited for the following appointments—

(a) PLANNING ASSISTANT. A.P.T., Grade Va-VI (£200-£710 per annum).

(b) PLANNING ASSISTANT. A.P.T., Grade IV (£530-£575 per annum).

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

Applicants for post (a) should hold a Final professional qualification, preferably in Planning, and for post (b) should have passed the Intermediate Examination of the Town Planning Institute.

The appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and the successful applicants will be required to pass a medical examination. For post (a) the successful candidate will be required to provide and maintain a motor car, for which allowance will be paid in accordance with the Council's scale.

Applications, together with the names and addresses of two persons to whom reference may be made, should be forwarded to J. J. Brooks, M.I.Mun.E., M.T.P.I., County Planning Officer, Northgate, Warwick, not later than Saturday, 8th March, 1952.

Canvassing, directly or indirectly, will be a disqualification.

L. EDGAR STEPHENS,

Clerk of the Council.

Shire Hall, Warwick.

12th February, 1952. 6397

EAST ELBOE RURAL DISTRICT COUNCIL. APPOINTMENT OF QUANTITY SURVEYOR.

Applications are invited for the above appointment in the Architect's Department at a salary in accordance with Grade A.P.T. V (commencing at £570 per annum and rising to £620 per annum). Applicants must be thoroughly experienced in the preparation of Bills of Quantities, measurement, interim and final accounts.

The Council will be prepared to offer assistance in the provision of housing accommodation if required and the appointment will be subject to the Local Government Superannuation Act, 1937, and to the passing of a medical examination and will be terminable by a month's notice on either side.

Applications, stating age, qualifications and previous experience, together with copies of two recent testimonials, should reach the undersigned, endorsed "Quantity Surveyor," not later than Friday, the 7th of March, 1952.

J. C. PYWELL,

Clerk of the Council.

Mattimore House, Holbeach.

Spalding, Lincs. 6415

CITY OF BIRMINGHAM EDUCATION COMMITTEE.

APPOINTMENT OF DISTRICT BUILDING WORKS SUPERVISOR.

Applications are invited for the appointment of a District Building Works Supervisor in the Architect's Branch of the Birmingham Education Department (Architect to the Committee: Mr. A. Steele).

Salary: A.P.T. IV (£530-£575).

Applicants will be required to have a general knowledge of the building trade and particularly of those branches required for the carrying out of repairs and alterations. They should be competent to inspect work, assess requirements, supervise labour and contractors' work and hold a Higher National Certificate or its equivalent.

Application forms, which may be obtained from the undersigned on receipt of a stamped, addressed envelope, must be returned not later than Friday, 14th March.

E. L. RUSSELL,

Chief Education Officer.

The Education Office,

Margaret Street, Birmingham, 3. 6413

AIR MINISTRY WORKS DEPT.

ARCHITECTURAL DESIGNER/DRAUGHTSMEN

required in Designs Branch by Air Ministry Works Department. Applicants should have had several years' experience in the preparation of working drawings, details and layouts for permanent and semi-permanent buildings. Vacancies are mainly in London, but there are some in the provinces. Salaries are on ranges up to £575 per annum, with starting pay dependent upon age, qualifications and experience. Applications, stating age, qualifications, previous appointments (with dates), should be sent to the nearest local Employment Exchange. 5162

HAMMERSMITH.

ARCHITECTURAL ASSISTANT, Grade A.P.T. III (£300-£345) plus London Weighting.

Candidates must be suitably trained, good draughtsmen, preferably experienced in municipal housing, and studying for Intermediate R.I.B.A. Application form (returnable by 10th March) from Town Clerk, Hammersmith, W.6. 6427

BOROUGH OF GRANTHAM. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant, at salary in accordance with Grade A.P.T. V (£570-£620 p.a.), on the permanent staff of the Borough Engineer and Surveyor.

Candidates should preferably be Registered Architects or have passed part of the Final examination of the R.I.B.A., and have experience in the design, layout, and supervision of Housing Contracts.

Housing accommodation will be made available if necessary.

The appointment, which is terminable by one month's notice, will be subject to the National Scheme of Conditions of Service for Local Government Officers to the Local Government Superannuation Act, 1937, and medical examination.

Applications, stating age, qualifications, present and past positions and experience, together with the names of two persons to whom reference can be made, should be sent to Mr. Trevor J. Livesey, M.C., A.M.Inst.C.E., A.M.I.Struct.E., A.M.I.Mun.E., Borough Engineer and Surveyor, Guildhall, Grantham, to arrive not later than 10 a.m. on Monday, 17th March, 1952.

JOHN F. GULE,

Town Clerk.

Guildhall, Grantham. 6440

ROTHWELL URBAN DISTRICT COUNCIL (YORKS).

APPOINTMENT OF (1) QUANTITY SURVEYOR; (2) ARCHITECTURAL ASSISTANT.

Applications are invited for the following appointments at salaries in accordance with Grade IV (£530-£575 p.a.):—

(1) QUANTITY SURVEYOR. Candidates should be capable of undertaking all stages of work in the preparation of Bills of Quantities, preparation and statement of final accounts, site measurements and interim certificates.

(2) ARCHITECTURAL ASSISTANT. 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 R.I.B.A.

Applications, stating age, present and previous appointments, qualifications and experience, together with copies of not more than three recent testimonials, to reach the undersigned not later than Monday, 24th March, 1952.

ALLEN T. S. ROBERTSON,

Clerk of the Council.

Civic Buildings, Rothwell, Leeds. 6439

BEDFORDSHIRE COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT.

SENIOR PLANNING ASSISTANT, A.P.T. VIII.

Applicants must be Associate Members of R.I.B.A. and preferably Corporate Members of T.P.I. Experience in preparation of housing layouts essential. N.J.C. Service conditions; car allowance; post pensionable; medical examination. An allowance of 25s. a week may be paid to a married officer unable to obtain housing accommodation who has to maintain his family away from Bedford.

Application forms obtainable from Clerk of the County Council, Shire Hall, Bedford, to be returned by 15th March. 6423

CITY OF COVENTRY. ARCHITECTURAL AND PLANNING DEPARTMENT.

Applications are invited for the appointment of a QUANTITY SURVEYOR, Grade A.P.T. VII (£685-£750 per annum).

The appointed person is to supervise a measurement and accounts settlement section for all types of new work, including a large volume of housing, and will be required to deal with account settlement on major contracts. A sound knowledge of contract interpretation and a tactful manner are essential. Experience of negotiated schemes for housing work is desirable.

Housing accommodation may be made available in certain circumstances.

All employees are expected to belong to an appropriate organisation as referred to in paragraph 44 of the Charter.

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D. E. E. GIBSON,

City Architect and Planning Officer.

Bull Yard, Off Warwick Row,

Coventry. 6424

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Principal: DR. A. HARVEY.

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The salary will be in accordance with the 1951 Burnham Report, i.e., £900-£1,000.

Forms of application, together with further particulars, may be obtained from the undersigned, on receipt of a stamped addressed foolscap envelope, and should be returned as soon as possible.

ROBERT E. PRESSWOOD,

Director of Education.

City Hall, Cardiff. 6444

MANCHESTER CORPORATION HOUSING COMMITTEE.

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

ASSISTANT ARCHITECT, Grade A.P.T. VI (£645 rising to £710 per annum).

(must be a Registered Architect and preference to be given to an Associate of the R.I.B.A.)

ASSISTANT QUANTITY SURVEYOR, Grade A.P.T. V (£570 rising to £620 per annum).

Candidates should forward particulars of age, education, qualifications and experience to the Director of Housing, Town Hall, Manchester, 2, so as to be received by Saturday, 8th March, 1952. Canvassing is prohibited.

PHILIP B. DINGLE,

Town Clerk.

February, 1952.

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

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

(1) ARCHITECTURAL ASSISTANT. A.P.T., Grades V/VA/VI (£510-£710 per annum, plus London "weighting").

Applicants must have had sound technical experience in all building trade subjects, be competent draughtsmen, experienced in the preparation of specifications and tender documents and in the supervision of repairs, alterations and decorations in connection with schools and other municipal buildings.

(2) ARCHITECTURAL ASSISTANT. A.P.T., Grades I/II/III (£440-£545 per annum, plus London "weighting"). Starting salary according to age and experience.

The Council is unable to assist in obtaining housing accommodation for successful candidates. The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, to the passing of a medical examination and to the National Joint Council's Scheme of Conditions of Service.

Canvassing will be a disqualification.

Forms of application may be obtained from the undersigned, to whom they should be returned not later than Friday, 14th March, 1952.

H. WELLS,

Clerk of the Council.

Council Offices, Harrow Weald Lodge,

Harrow, Middlesex. 6429

FIFE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the post of ARCHITECTURAL DRAUGHTSMAN (two vacancies).

Salary scale £405, rising by annual increments of £20 to a maximum of £505 per annum. Candidates must have experience in an architectural drawing office and be quick and accurate draughtsmen. Age under 45. Medical test under Superannuation Scheme. Applications in writing, stating age, experience and qualifications, accompanied by copies of testimonials, to be lodged with the Manager, Ministry of Labour and National Service, Preston Lodge, Cupar, not later than 7th March, 1952.

J. M. MITCHELL,

County Clerk.

County Buildings, Cupar, Fife. 6445

COUNTY OF LEICESTER. SENIOR ASSISTANT ARCHITECT, GRADE VI-VII (£645-£760).

Candidates must be Associate Members of R.I.B.A., experienced in design and construction of modern buildings, and capable of carrying through projects from inception to completion. N.J.C. service conditions; medical examination; post pensionable. Consideration given to registered disabled persons. Apply by 22nd March, with copies of three recent testimonials, on forms obtainable from County Architect, 123, London Road, Leicester. 6446

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RICHARD COSTAIN, LTD., require the services of an ASSISTANT ARCHITECT for an Associated Company in Lagos, Nigeria, British West Africa. Sound practical experience main consideration—professional qualification desirable. Age preferably 25-36. Contract is for 18 months, with possibility of renewal. No wives and/or families on initial tour of duty. Apply in writing, giving full details of age and experience, to Personnel Director, Richard Costain, Ltd., Dolphin Square, London, S.W.1. 6442

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ASSOCIATE (31) seeks progressive position in London area. Present salary £600 p.a. 6 years' office experience. Box 398.

A. R.I.B.A. requires part-time situation, 2-3 days weekly. Box 6407.

Position required in Architect's office in North London by young man, aged 20 years. Completed National Service, and with 4 years' useful experience in an Architect's office prior to National Service. Studying for R.I.B.A. examinations. Salary required, £5 per week. Please reply to Box 395.

A. R.I.B.A., Dip. Arch., experienced in industrial, school and domestic architecture, would be pleased to learn of any Architect in the Midlands who requires a part-time Assistant. Box 6432.

Student R.I.B.A. (21), with 5 years' experience, including levelling, seeks post in London area. 4½-day week. Salary accordingly. Box 399.

Architectural Assistant, passed Final R.I.B.A., with 4 years' varied office experience, seeks situation in office with contemporary outlook in Liverpool, Manchester or London. Box 397.

A. R.I.B.A. (woman, 27) wishes position in London office. Box 396.

Architect (28), A.R.I.B.A., contemporary outlook, 3 years' experience, seeks position with small London firm offering scope for imaginative, practical and administration ability. Box 371.

A. R.I.B.A., aged 36, available for part-time assistance (up to 3 days per week) or full-time senior position, after 1st April (London or Southern Counties). Box 6441.

Experienced Chartered Structural Engineer and Surveyor seeks appointment with Architect. Architectural and engineering work, surveys, contract management. Can introduce business. Box 6354.

Keen Assistant, conscientious worker, with several years' experience, including L.A. housing, wishing to extend experience, seeks appointment with Architect of contemporary outlook. Appreciative of enthusiasm and hard work. Willing to travel anywhere, and accept responsibility. Single. References available. Please reply Box 400.

Architectural Assistant (lady, 22), Student R.I.B.A., 4 years' full-time training, preparing for Finals, some office experience, requires progressive post. London or N. Surrey. Box 401.

Personal Secretarial post with Architect required by young woman. Six years' experience, 4 as senior shorthand typist, in responsible position with well-known London architect. Box 6448.

Qualified R.I.B.A. and Registered Assistant Architects required by the British Railways (London Midland Region) for service in the Architect's office, Euston. Applicants must be competent to control the activities of small groups of Architects engaged on a wide variety of projects and to supervise contract work. Salary £650 to £700. Certain residential and free travelling facilities available. Apply Civil Engineer, British Railways, London Midland Region, Euston Grove, N.W.1. 6449

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Other Appointments Vacant

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

A leading firm of Timber Building Manufacturers in the Home Counties require a DESIGNER DRAUGHTSMAN to specialise on new developments. Candidates should have had experience in the design of prefabricated timber structures of all types preferably both permanent and temporary for home and for export. The appointment offers splendid experience and opportunity for a keen imaginative and practical technician with sound drawing office experience. Please reply, in confidence, giving age, education, full details of career and present salary to Box 6400.

Applications are invited by large company for their Westminster (London, S.W.1) offices for the positions scheduled herewith. All posts are pensionable and offer good prospects to ambitious men. A five-day week of 38 hours is in operation. Applicants should state age and give brief particulars of experience. All applications will be treated in strict confidence. Assistance will be given to successful applicants to obtain suitable housing accommodation.

(a) SENIOR REFRACTORY BRICKWORK DESIGNERS, experienced in design of intermittent Chambers and/or Coke Ovens. Salary: from £600, according to ability and experience.

(b) JUNIOR DRAUGHTSMEN, as above. Accustomed to detailing Refractory Brickwork. Salary: from £350, according to experience.

Applications should be made in writing to Box Z.E.238, Deacon's Advertising, 36, Leadenhall Street, London, E.C.3. 6447

Experienced DRAUGHTSMAN required for work on Housing, Flats, Offices, etc. Location Salisbury, Wilts. Salary approximately £500 per annum. Box 168, c/o Smith's Bookshop, Salisbury, Wilts. 6451

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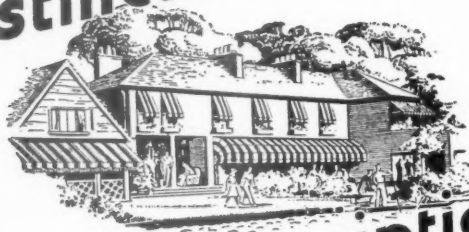
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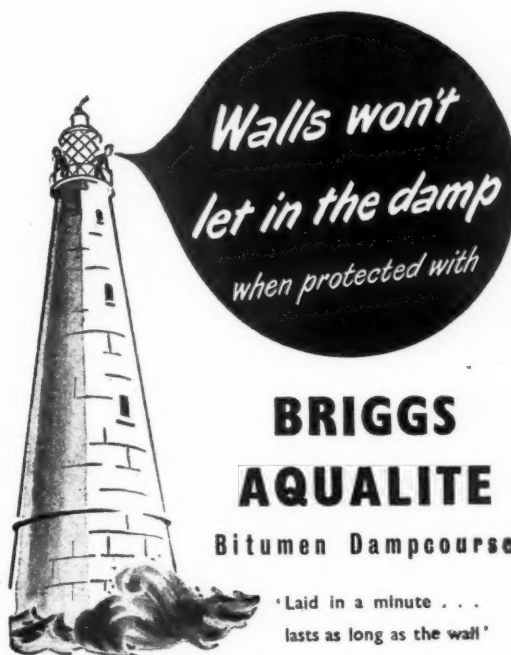
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