

THE ARCHITECTS' JOURNAL



standard contents

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

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Wanted and Vacant

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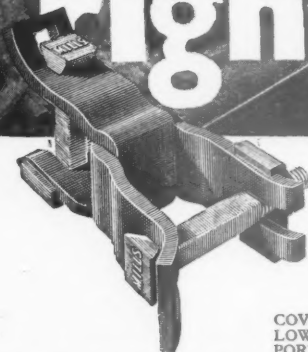
★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to I one week, I to Z the next. In all cases where the town is not mentioned the word LONDON is implicit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

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	Museum 1783
ILA	Institute of Landscape Architects. 12, Gower Street, W.C.1.	Museum 1783
I of Arb.	Institute of Arbitrators, 35/37, Hastings House, 10, Norfolk Street, Strand, W.C.2. Temple Bar 4071	Museum 7197/5176
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	Abbey 6172
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 4
MOLNS	Ministry of Labour and National Service, 8, St. James's Square, S.W.1.	Whitehall 6
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 Asphalt 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.	55, Great Ormond Street, W.C.1.
SPAB	Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.	Holborn 2646
TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.	Temple Bar 5006
TDA	Timber Development Association. 21, College Hill, E.C.4.	City 4771
TGC	The Gas Council. 1, Grosvenor Place, S.W.1.	Sloane 4554
TPI	Town Planning Institute. 18, Ashley Place, S.W.1.	Victoria 8815
TTF	Timber Trades Federation. 69, Cannon Street, E.C.4.	City 4444
WDC	War Damage Commission. Devonshire House, Mayfair Place, Piccadilly, W.1.	Mayfair 8866
WEDA	Welfare Equipment Development Association. 74, Victoria St., S.W.1.	Victoria 5783
ZDA	Zinc Development Association. Lincoln House, Turl Street, Oxford.	Oxford 47988

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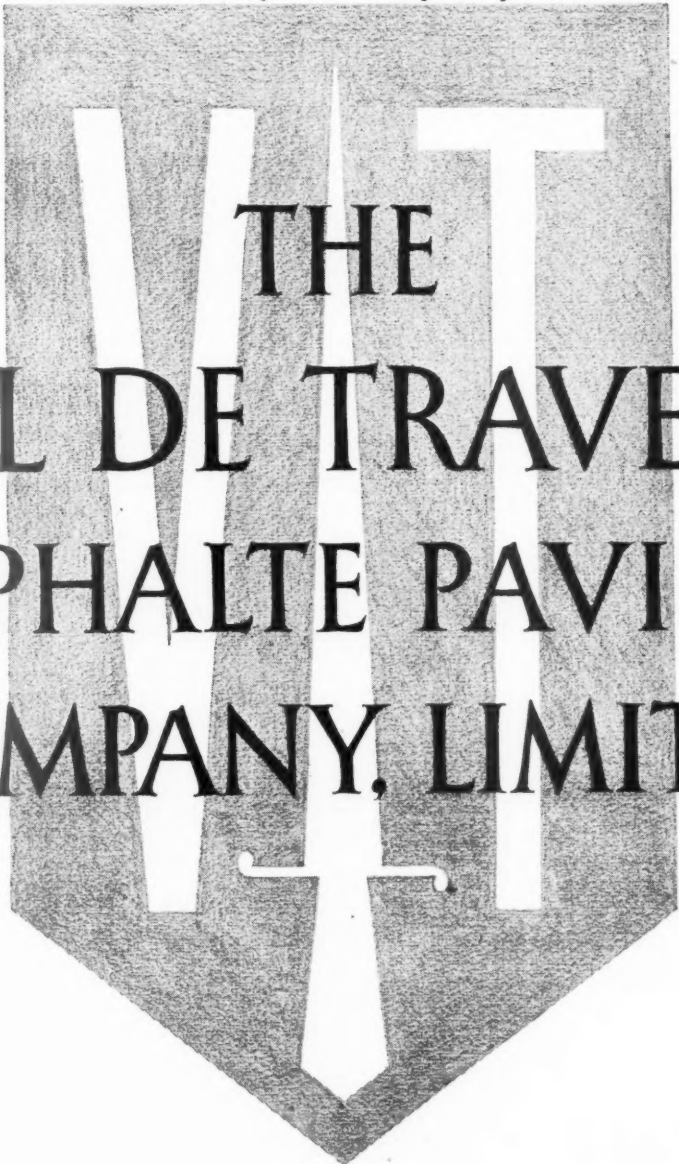


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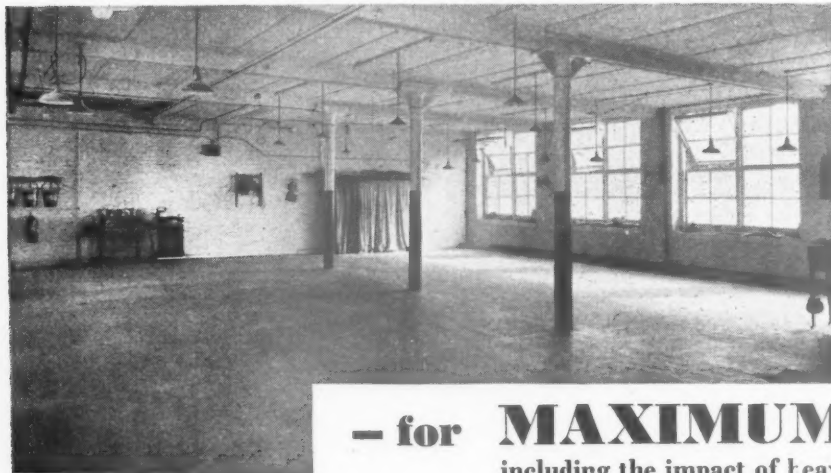
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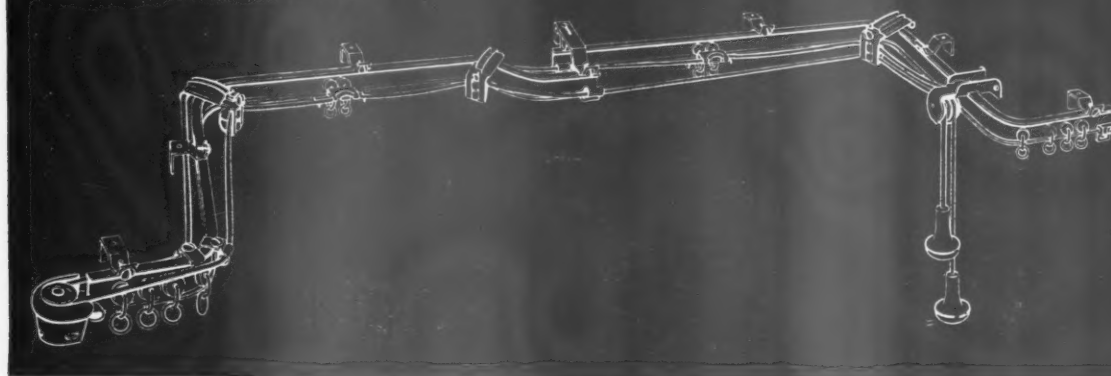
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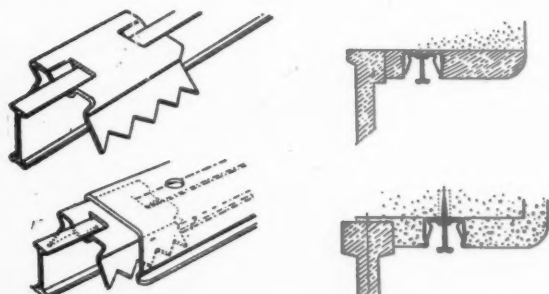
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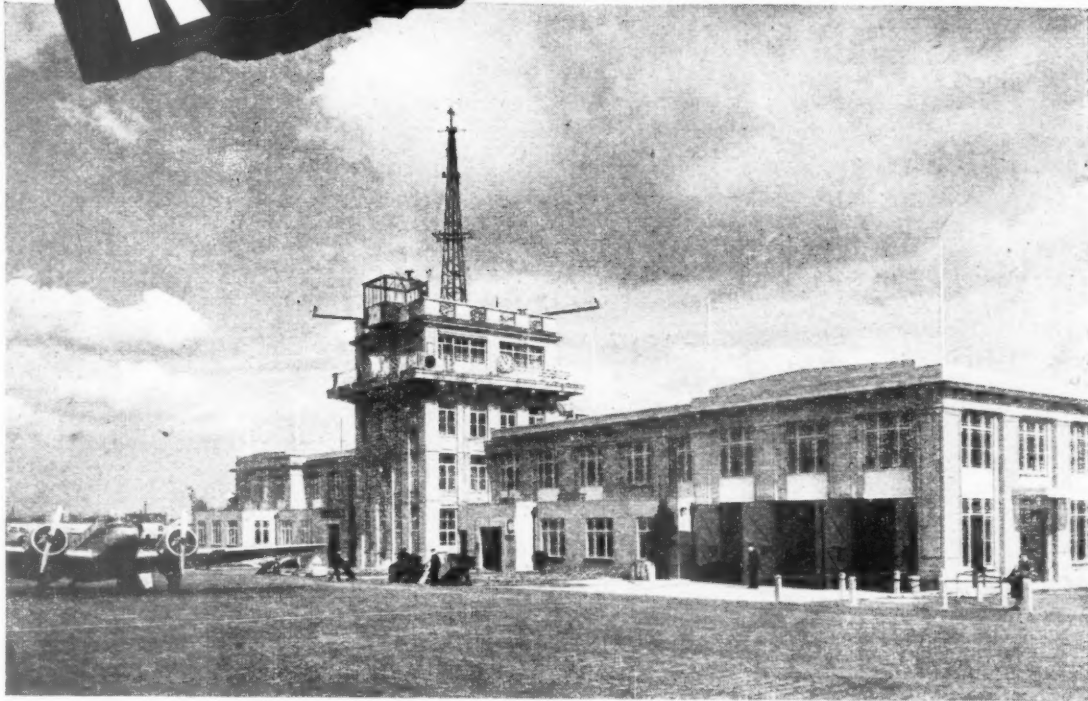
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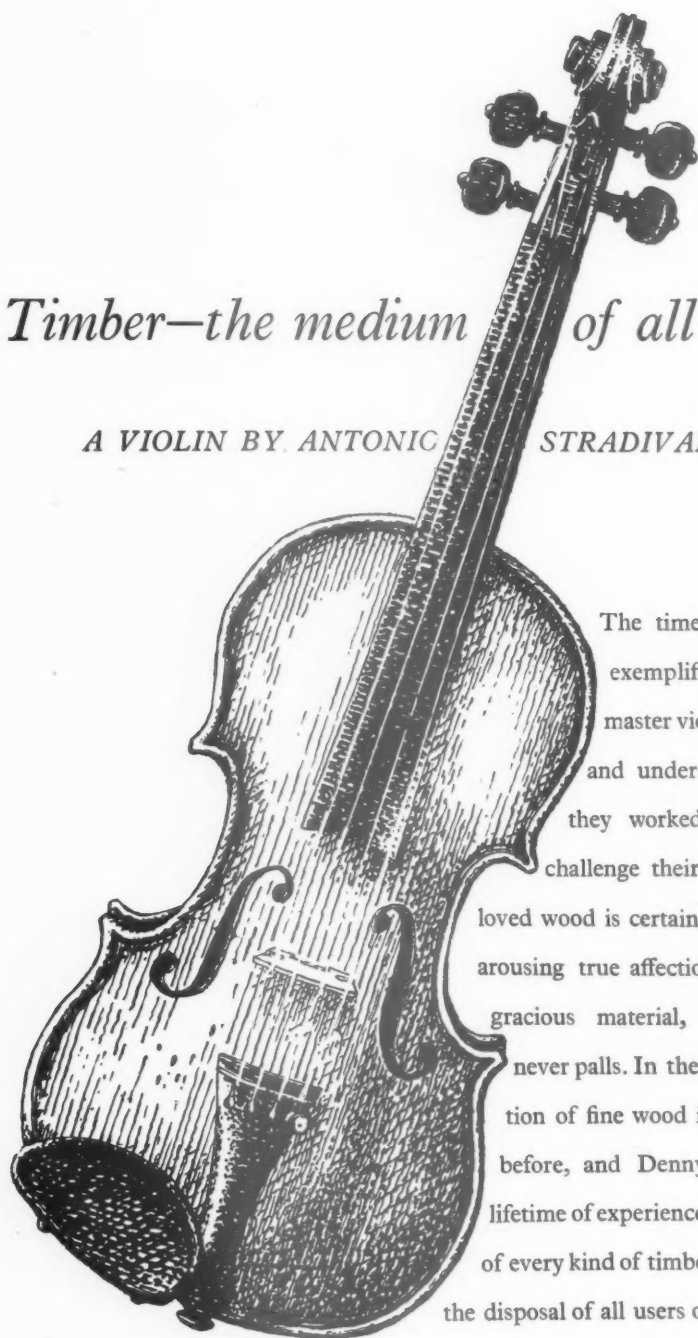
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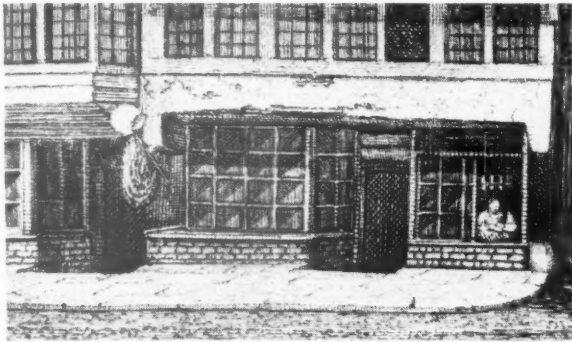
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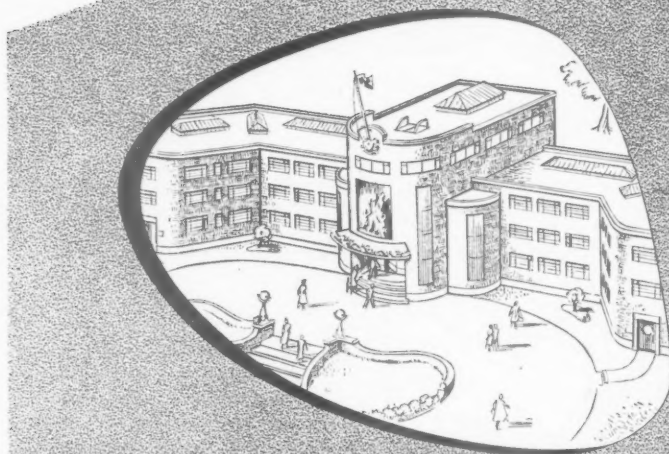


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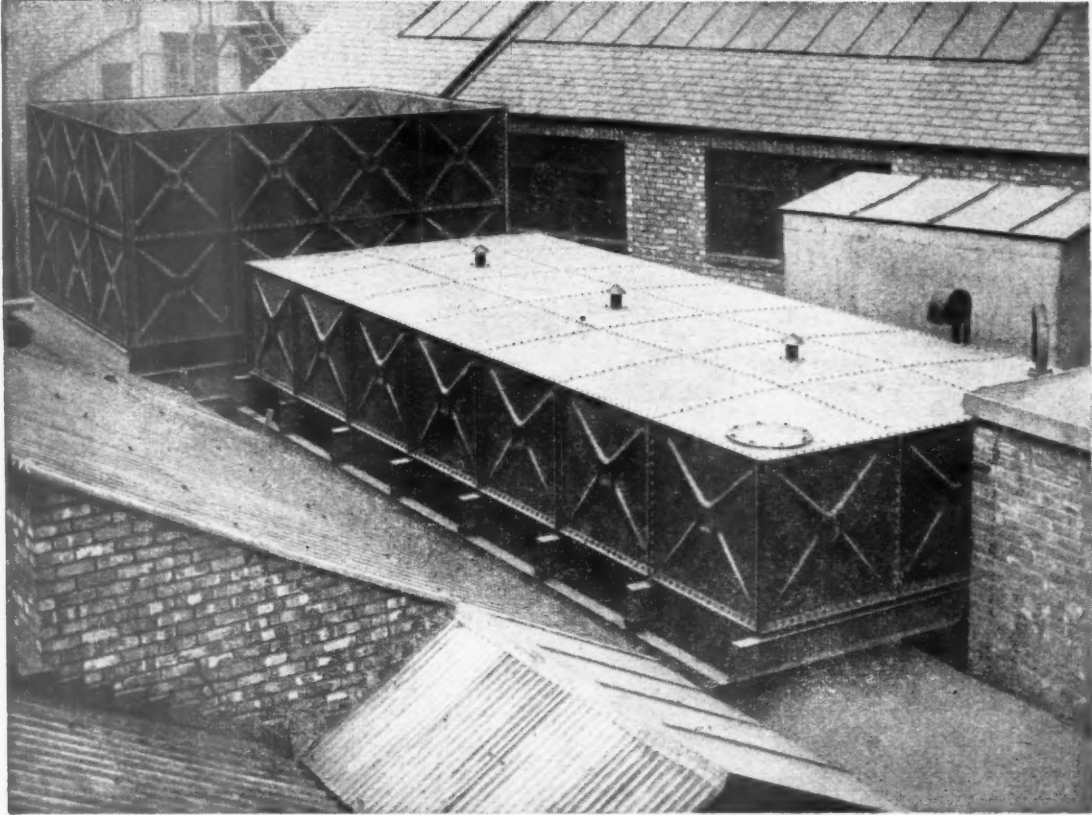
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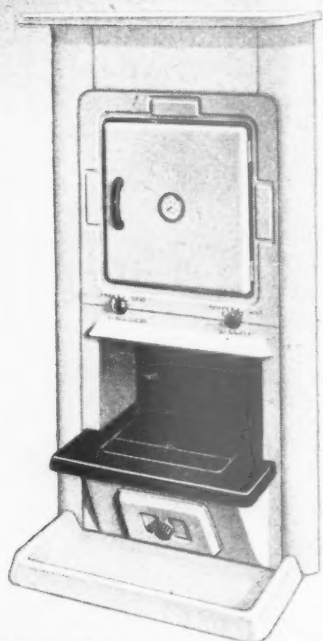
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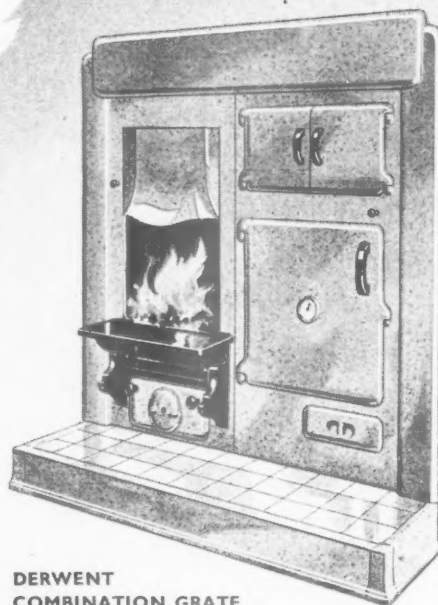


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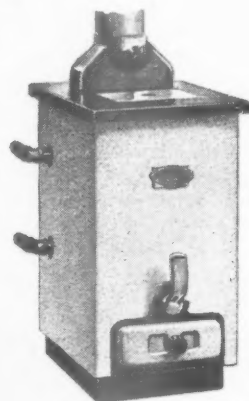
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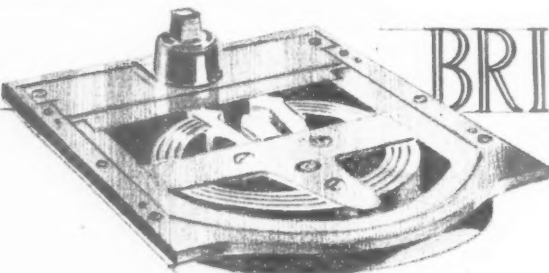
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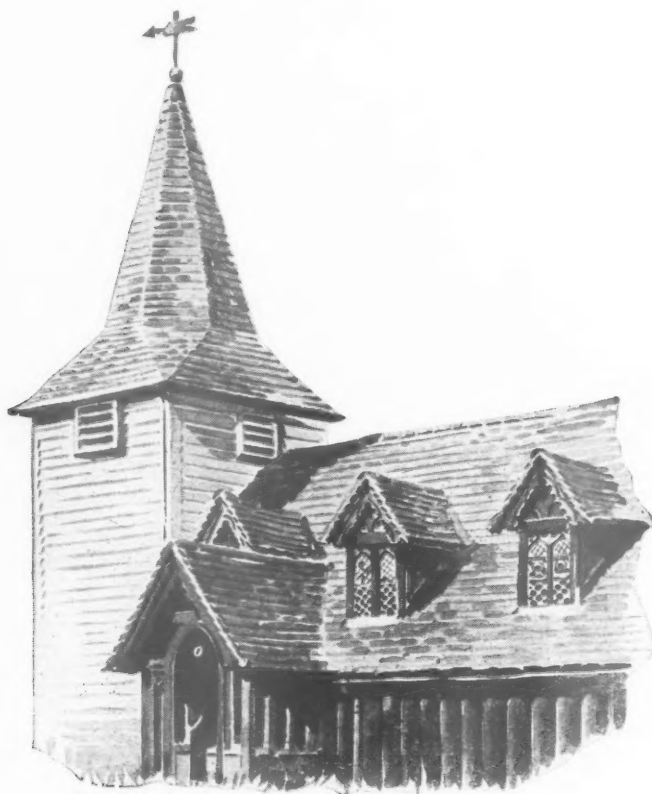
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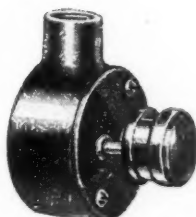
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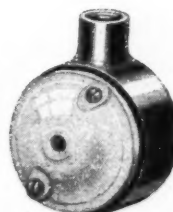
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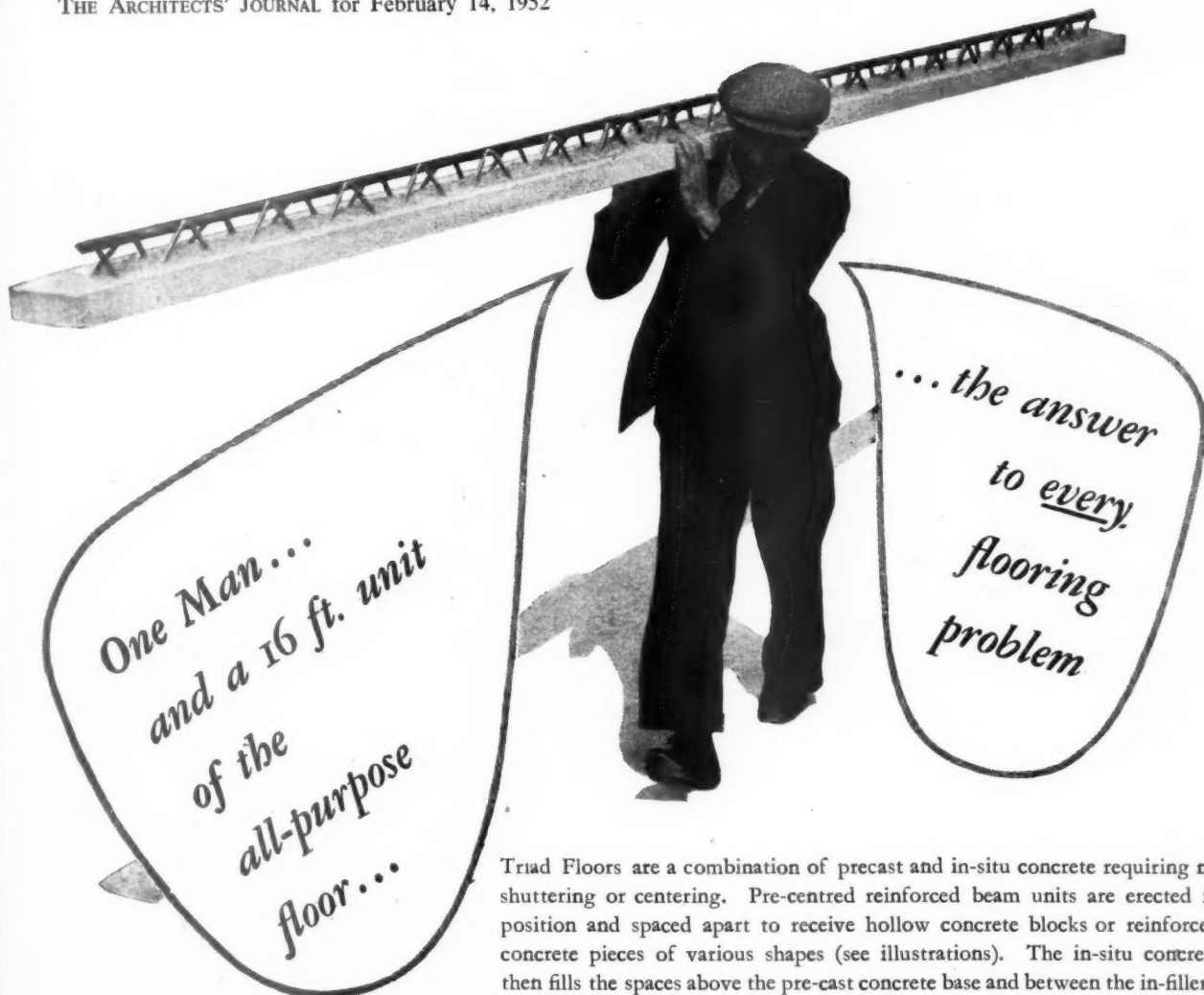
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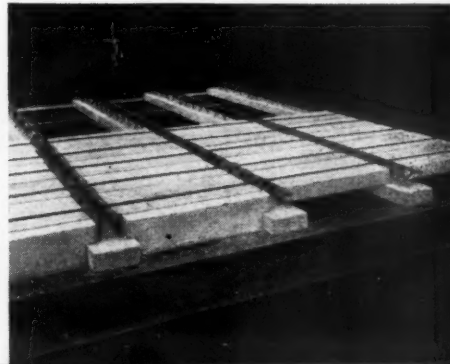
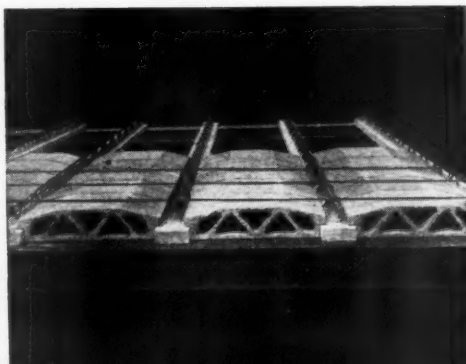
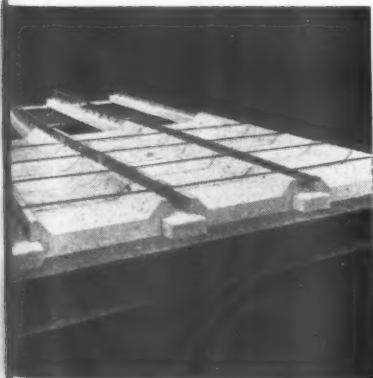
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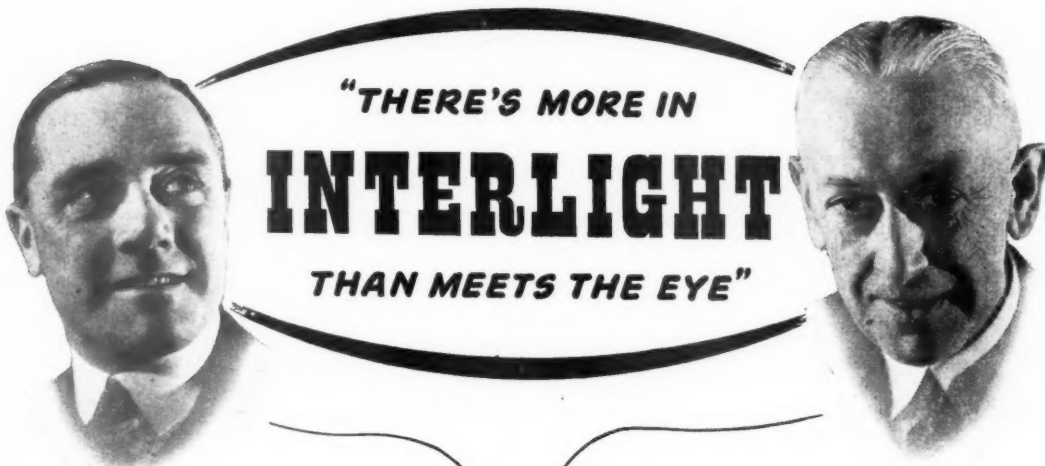
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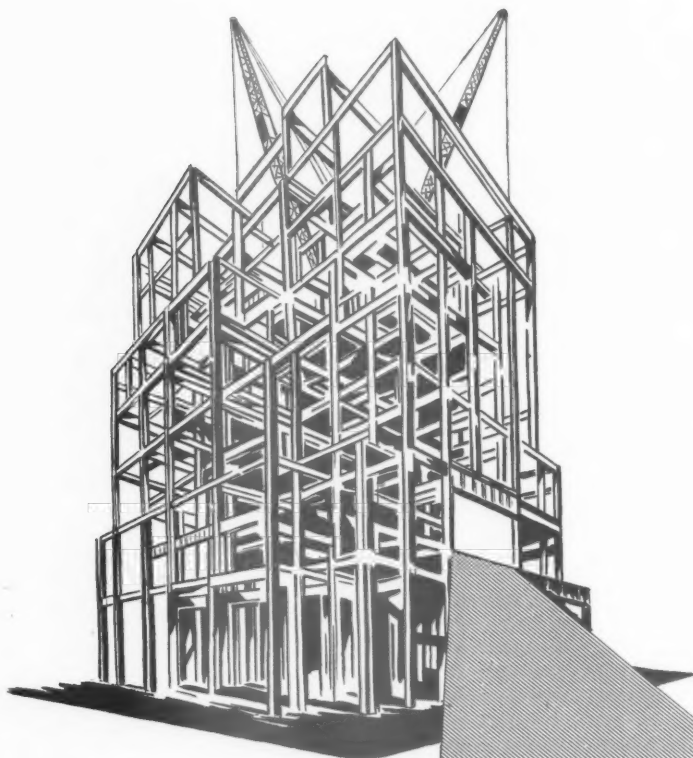
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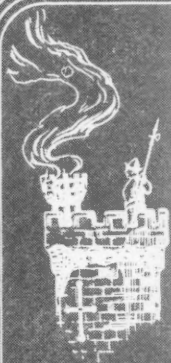


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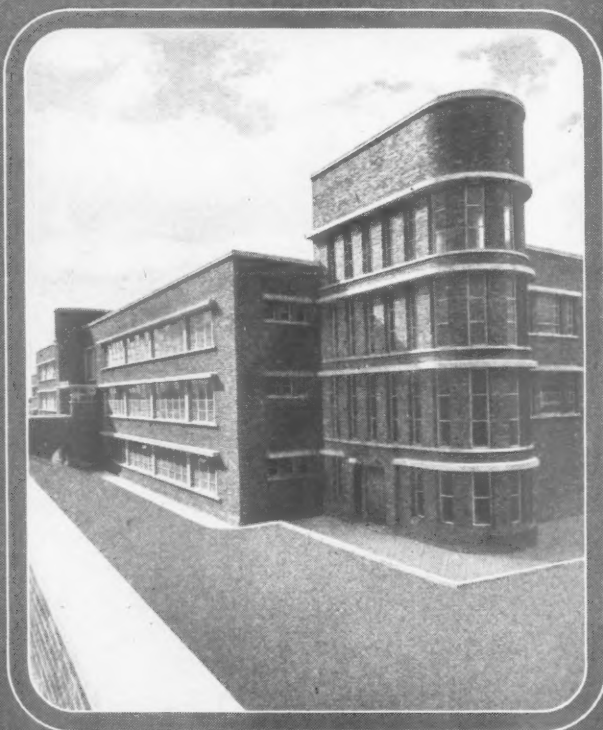
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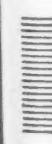


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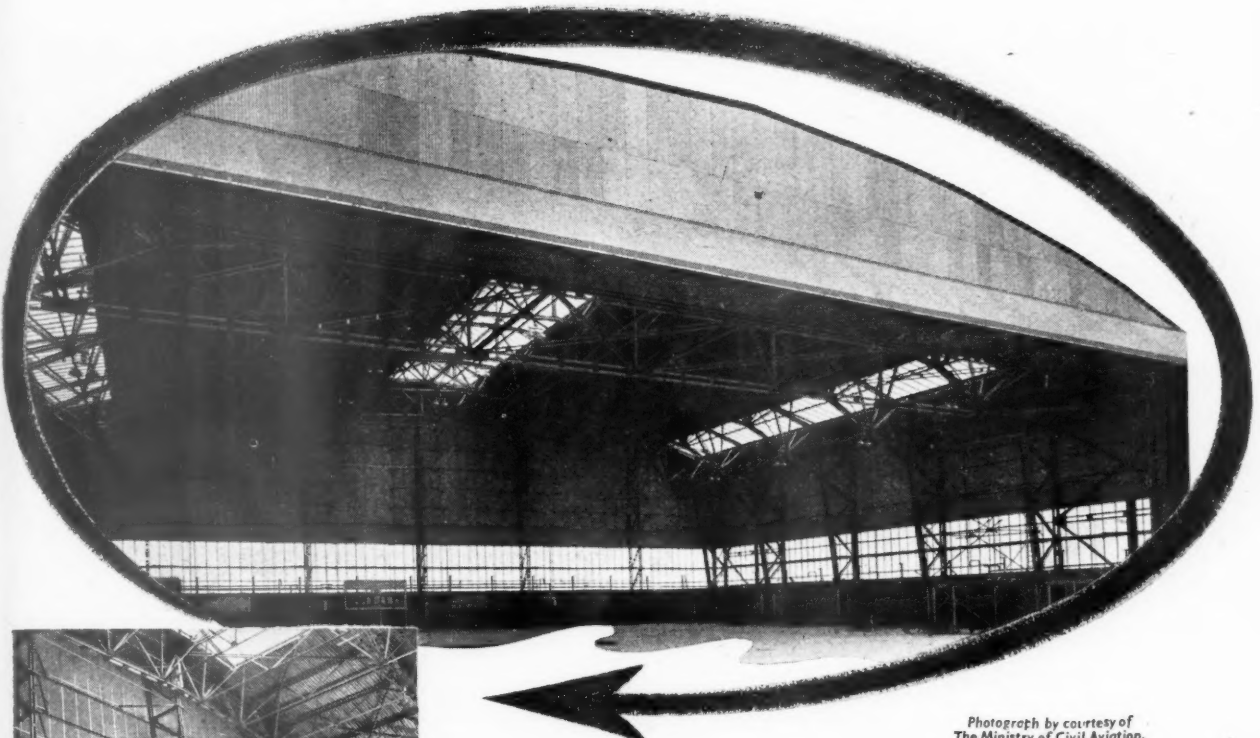
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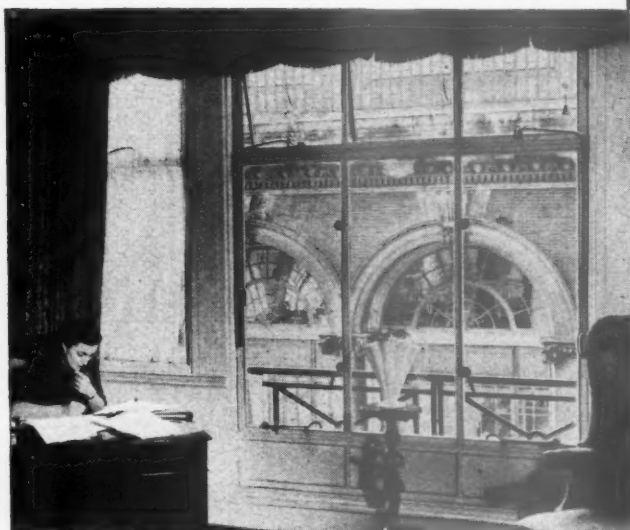
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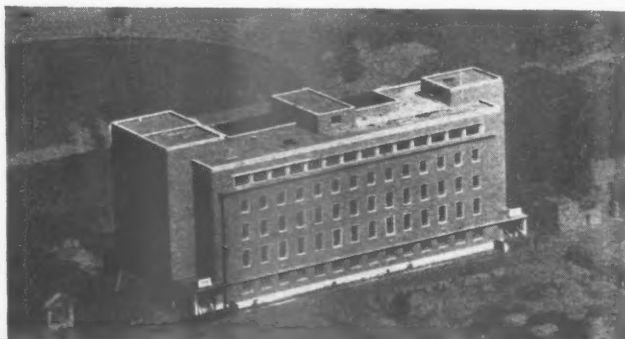
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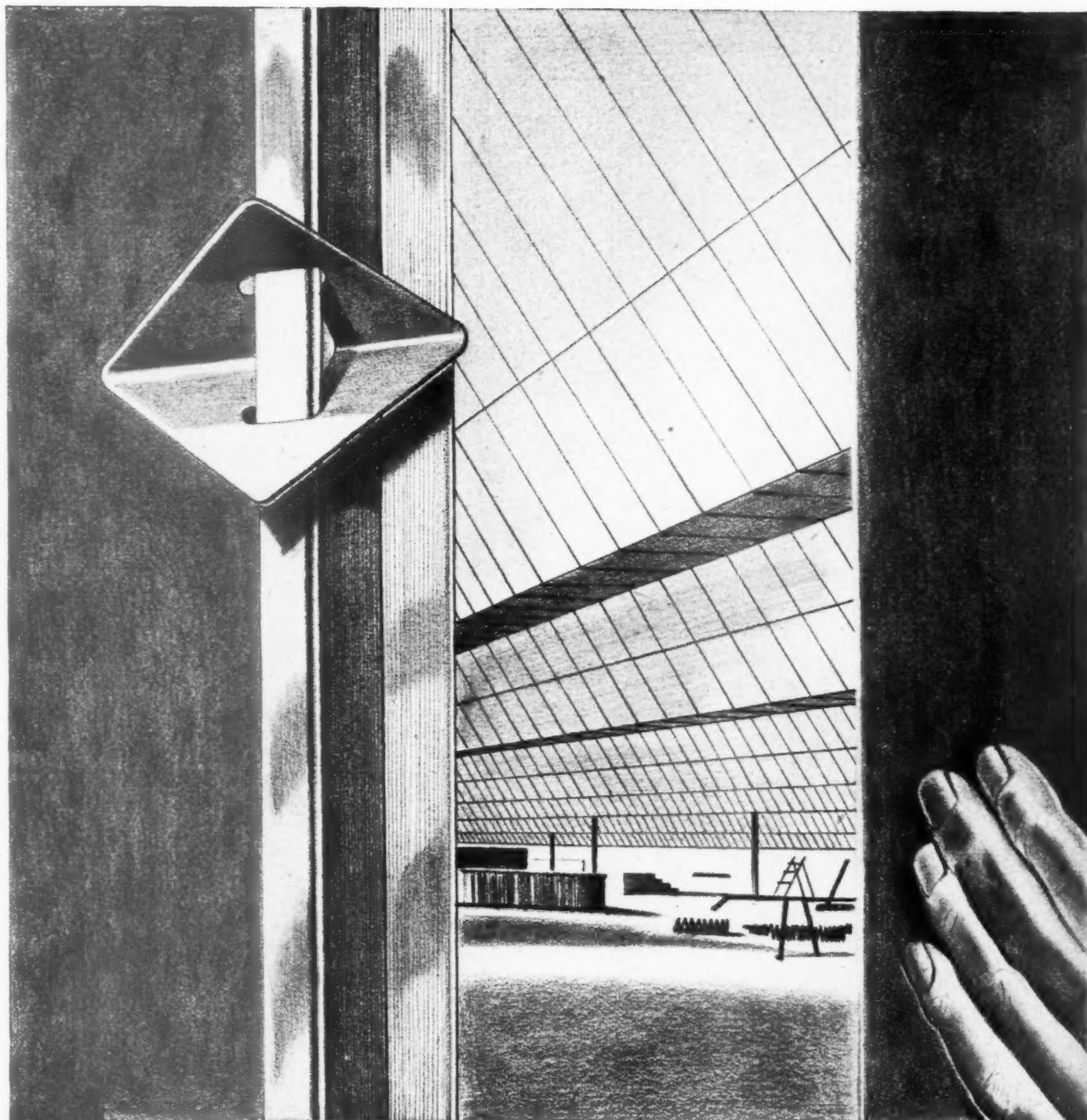
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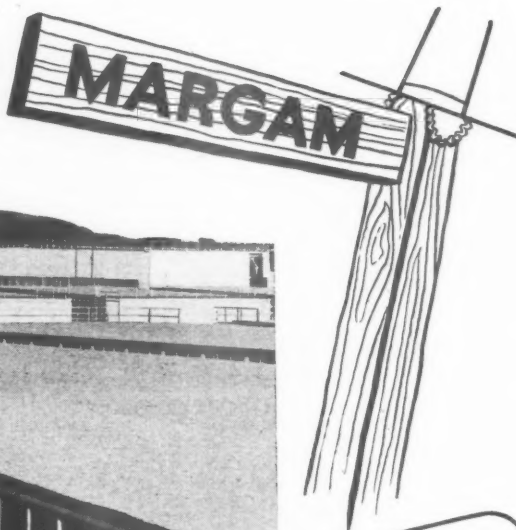
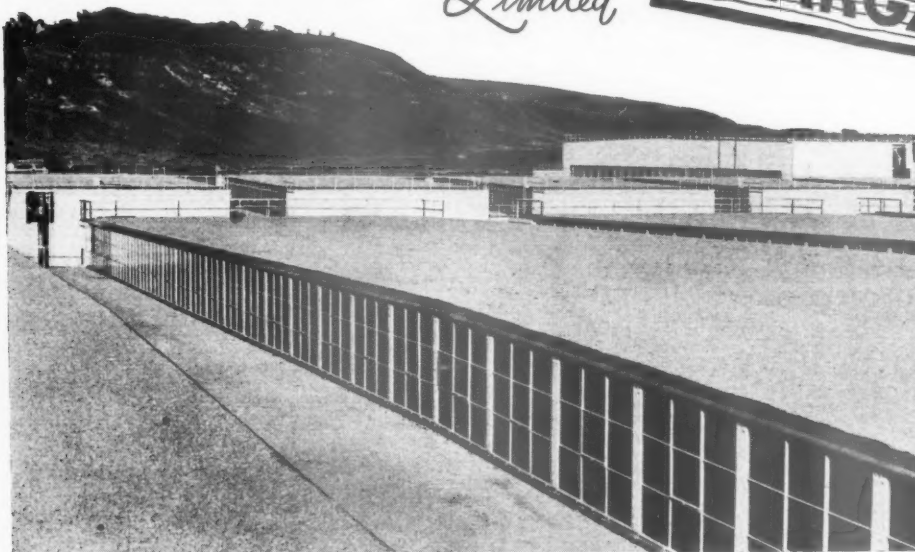
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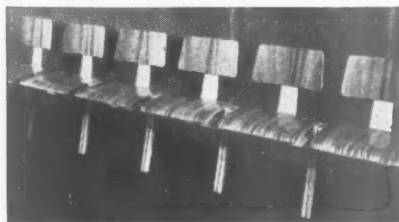
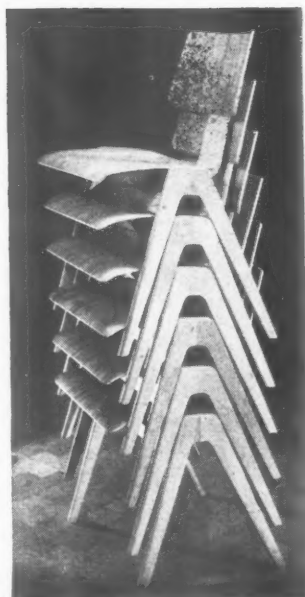
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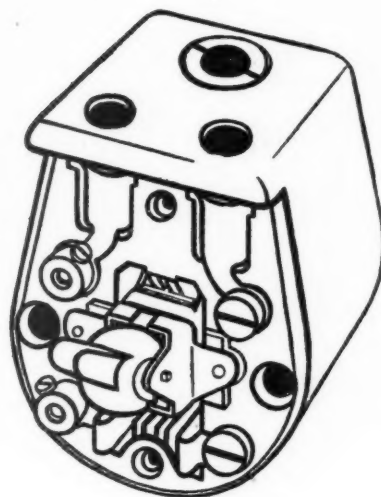
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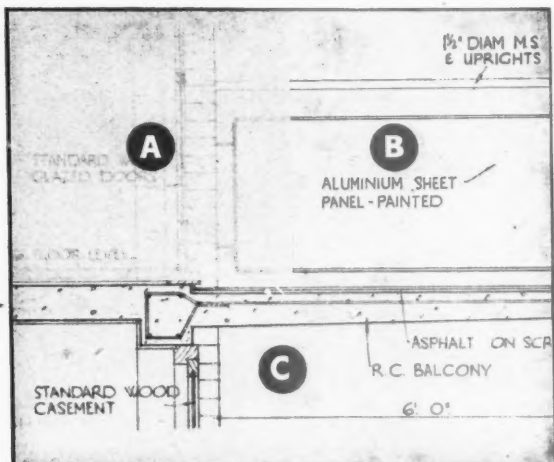
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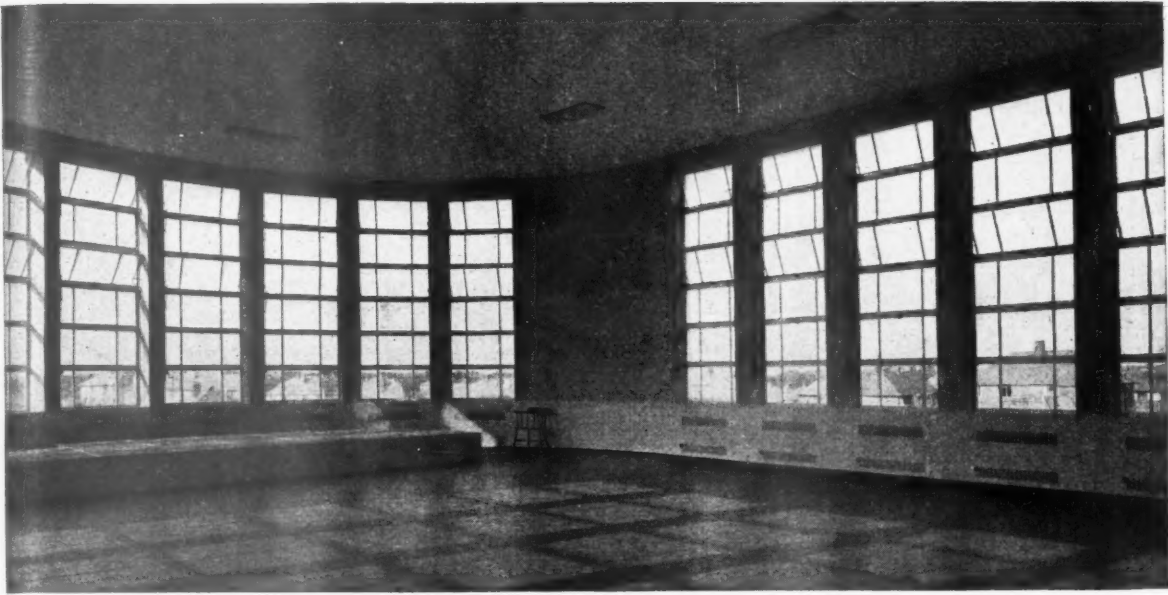
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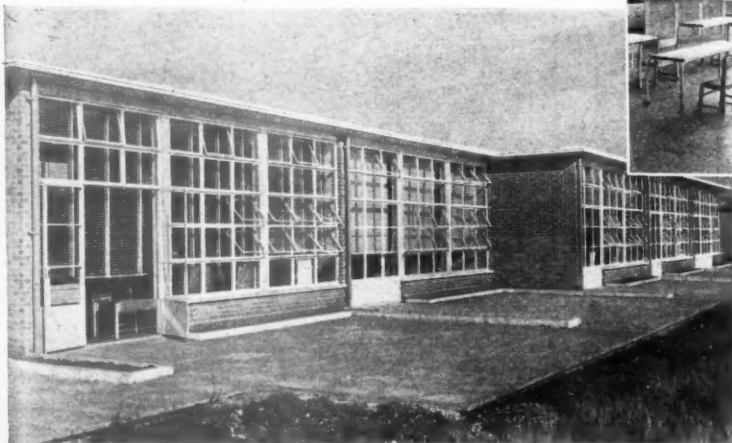
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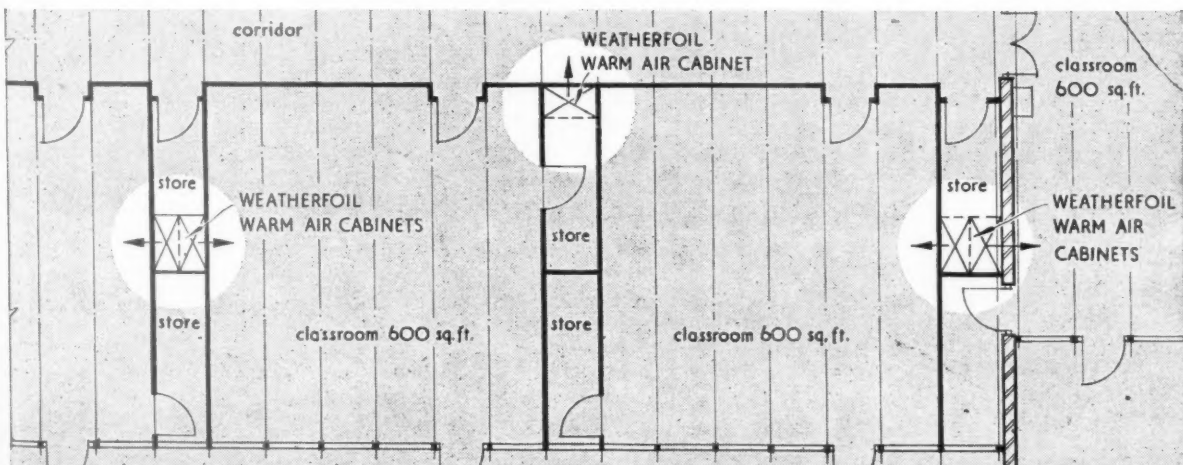
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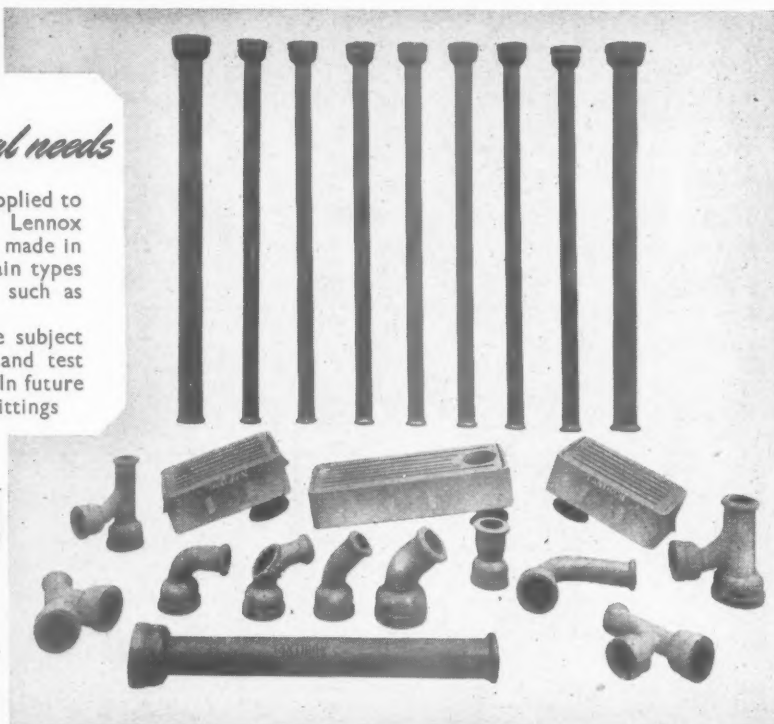
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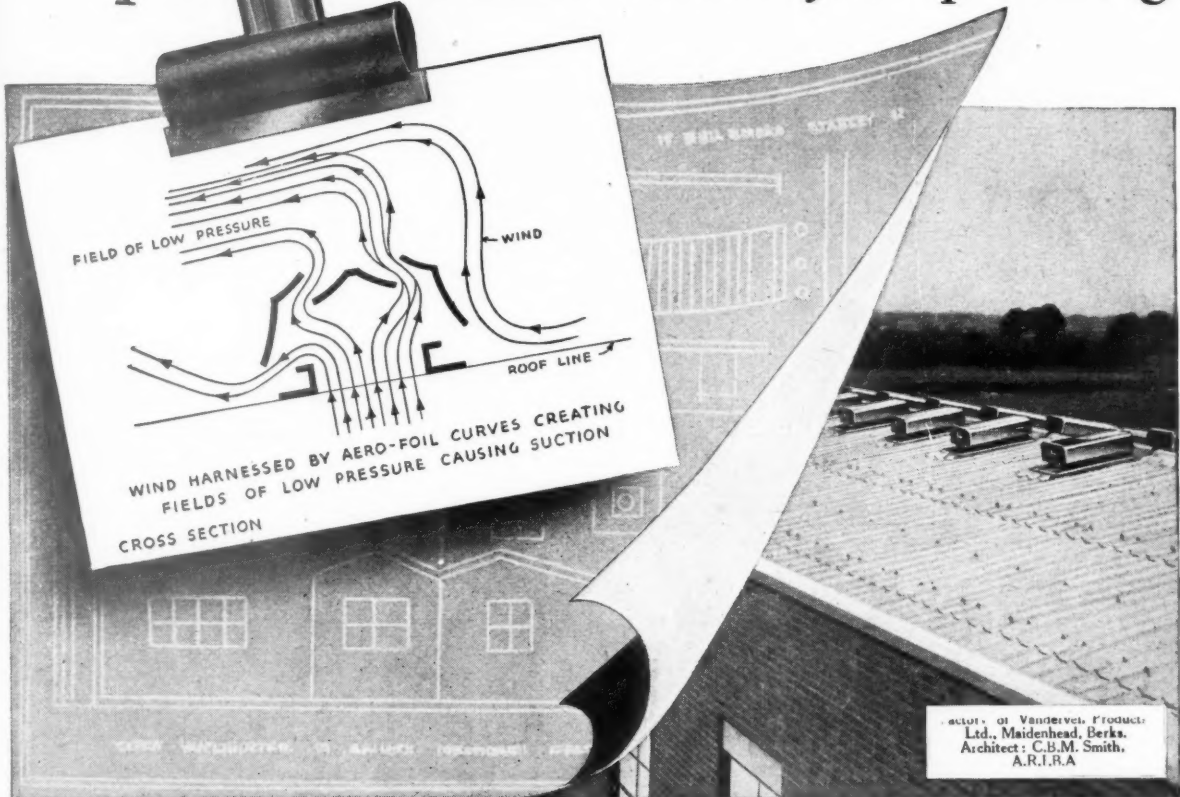
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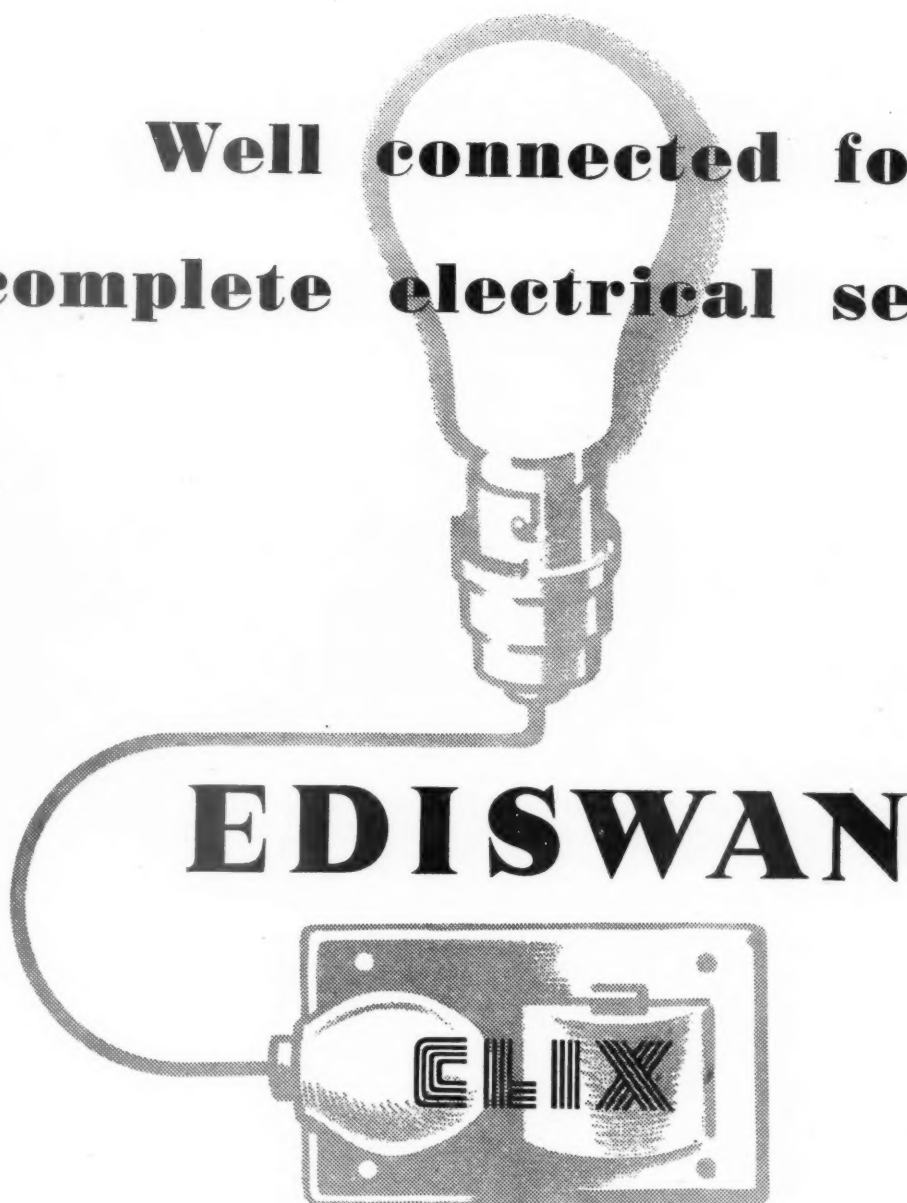
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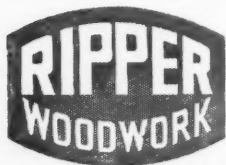
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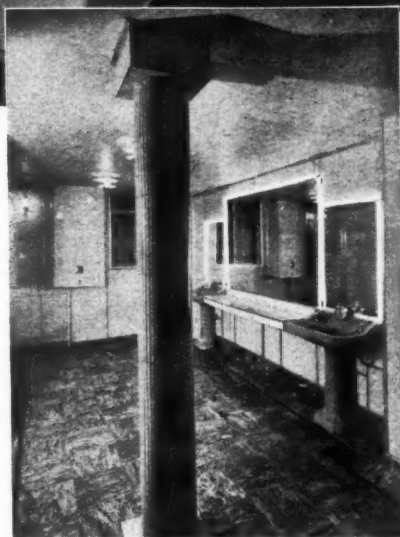
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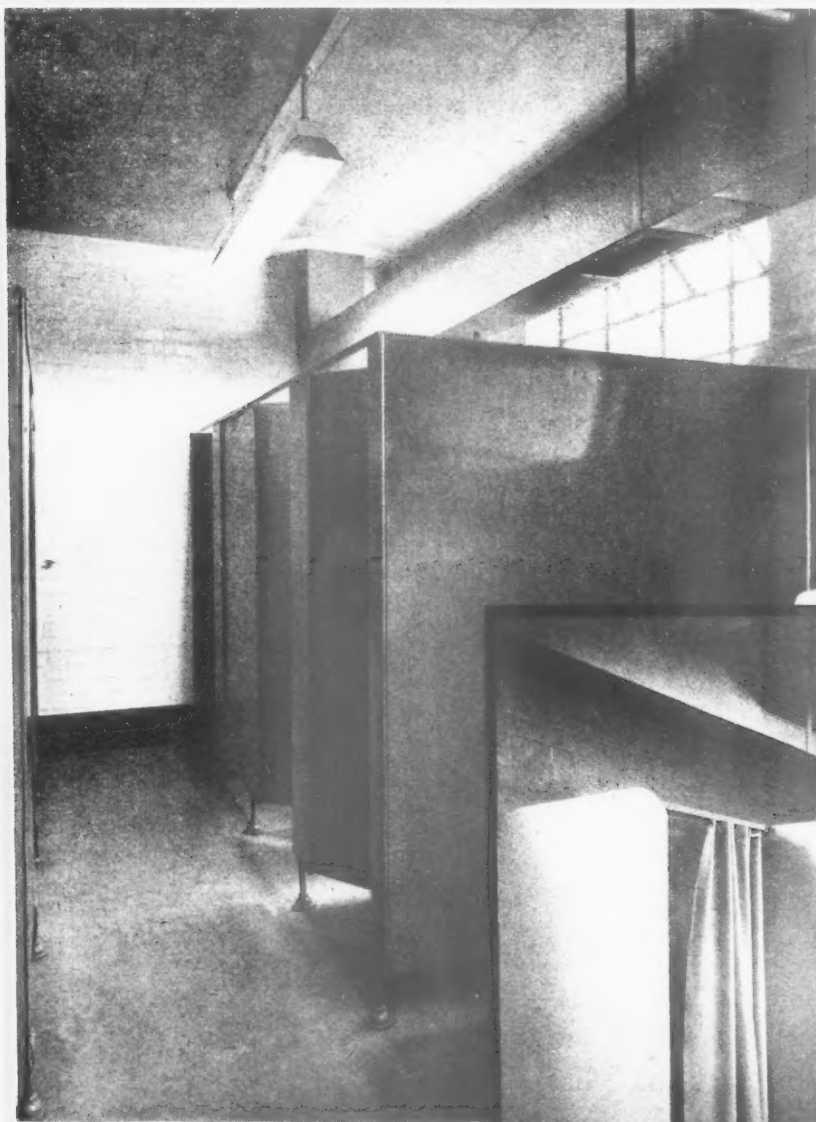
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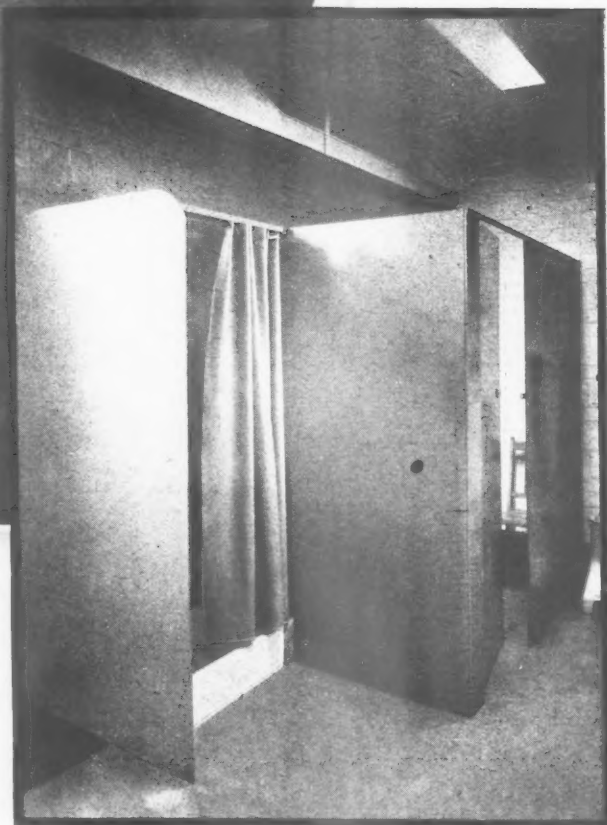


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THE ARCHITECTS' JOURNAL

No. 2972 FEBRUARY 14, 1952 VOL 115

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FEBRUARY 6

By the time these words appear the sudden shock of last Wednesday's news will inevitably have abated. But few people will quickly forget the atmosphere of that stunned, grey morning in London—the news spreading, like mediæval rumour, directly through the streets; the telephone operators inserting the message against the flick and rattle of the switchboard; the new batch of evening papers sullenly flapping upon the pavement into eager but disappointed hands—for fresh news was slow in following upon the event; the West End dress shops filled with black and purple, even before the lunch-hour; everywhere the distraught and secret faces of people whose minds were elsewhere. To everybody the news was as sudden and personal as a blow,

for only in times of national crisis or emotion do we become aware of how strong and almost physical is the tie which binds us to the Throne.

*

Elsewhere in this issue the JOURNAL pays tribute to the memory of King George and to the future of our new Queen. I can add no more, except to say that under our late King, Royal patronage of the Arts assumed a new, wider and more friendly character than has been traditionally associated with the Court, a development that our new Queen and her consort have already shown eagerness to extend in many practical and imaginative ways. Long and happily may they reign.

SOUTH BANK RE-OPENED

It is good news that the LCC has adopted its General Purposes Committee report on the interim development of the South Bank site. You will see from the photographs reproduced on page 210 that not everything that we hoped for has been saved from the knackers—the loss of the Jane Drew-Maxwell Fry pre-stressed concrete bridge linking Waterloo Bridge to the Festival Hall is particularly sad—but on the whole the committee and the council seem to have taken an imaginative as well as realistic view of the problem. Congratulations to all concerned—to the Minister for insisting upon quick decisions, to the LCC's officers for preparing so sensible a case, and to the councillors for not taking—as they might easily have done—a narrow view of their opportunities. The consultants' illustrated report, prepared jointly by Robert Matthew, Hugh Casson and the Chief Parks Officer, has not been published, but it looks—read-

ing between the lines of the LCC hand-out—as if many of their recommendations have been accepted. Certainly their main object is achieved—the site is not to be allowed to moulder into a slum while the committee argue indefinitely, and its gay character—those open riverside railings, the trees, paving and changes of level, that many of us remember—will, wherever possible, be retained.

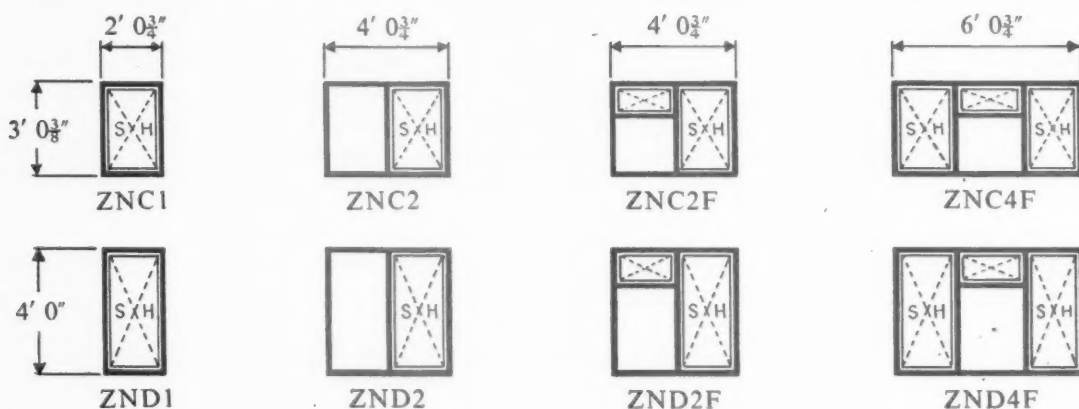
*

The report discloses some differences of opinion with MOW on the meaning of “demolition”—(MOW likes ground level, or perhaps, sometimes, 18 in. below, LCC likes 3 in. down and no shilly-shallying)—the future of the Dome—(MOW is for demolition, LCC—by a close vote—against, and pleads for time to reconsider), and of course the long-term future and use of the site are not mentioned. (Will the National Theatre stay exactly there? Are we doomed to Government offices upstream? We must wait and see.) Never mind, things are moving in the right direction, and quite quickly too. Let's hope that by the spring we can once more walk beside the water from Westminster to Waterloo.

SCHOOL FOR ENTERPRISE

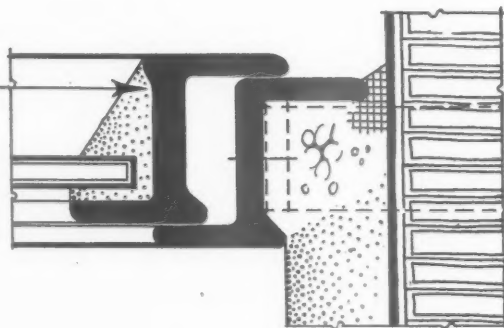
One of the advantages of having architects and administrators in close partnership, as they are, for instance, at the MOE, is that in times of economic crises they know how to deal with such things as building cuts in a way which solves the economic problem without ruining the building programmes started by local authorities. Not only that, but they also manage to devise methods by which awards go to the enterprising and ingenious. At least, so it appears from

HOPE'S 'Z' STANDARD WINDOWS

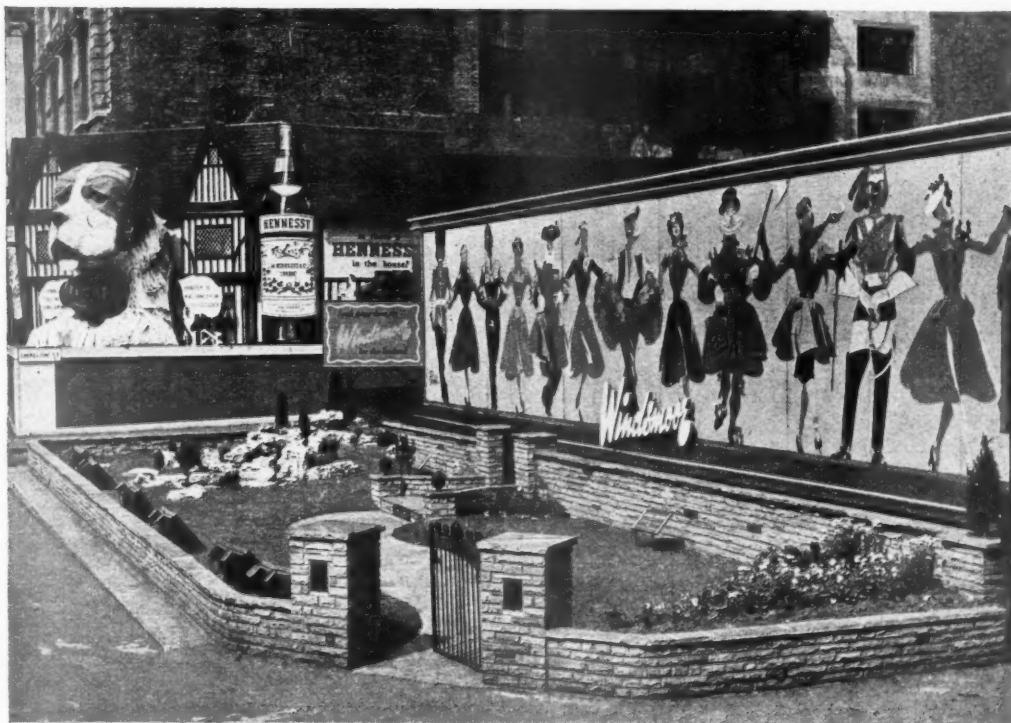


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A garden in Piccadilly; one of the London gardens discussed by "The Critics" last Sunday. See note on this page.

the MOE's circular to local authorities on the school building programme. The best example of this enlightened Ministerial policy is the scheme for the bulk allocation of steel to local authorities instead of the old system of steel authorizations for each individual job. This will allow local authorities to increase their school building programme by the extent (within reason) they can stretch their allocation of steel.

*

Those counties who have managed to "stockpile" materials will no doubt be well away—those who haven't are at least going to be given a chance to show some enterprise and planning initiative. Whether they take it or not we shall see.

*

By the way, architects in private practice will note that £38,400,000 worth of work has been cut. At a rough guess I reckon private architects stand to lose half a million pounds—is that a loss we can take without cutting staff? I'm beginning to doubt it. There's a faint chilly wind already perceptible around a number of drawing offices I've visited lately—let's hope it doesn't get up into anything stronger than a breeze.

ANOTHER 3D.

Meanwhile wages rise. Every time the building trade employers agree to a wage increase the architect perhaps thinks he has nothing to do but

accept the fact and make the necessary revisions to his estimates. But the implied problems for architecture are more serious than just another book-keeping entry. Here is only one, but it's a vital one. Is there enough difference between the craftsman's and the labourer's wage packet to make five years' apprenticeship worth while? In the old days the labourer got about 70 per cent. of the craftsman's rate. Today he gets rather more than 90 per cent. I know that in other industries we are tending to become a nation of semi-skilled machine minders with a few craftsmen in the toolrooms and instrument shops, and, like all of you, I deplore it. But building is still predominantly a craft trade, and it's hard to see that it can become anything else if we keep to traditional materials. However persuasively parents may argue, boys of fifteen *aren't* very likely to take a long view, and it's all too easy to fall for the immediate £6 or more a week rather than slow increases over five years, with better prospects in middle age.

*

This difficulty by no means applies only to the building industry, and it seems that the only way to maintain the flow of apprentices to any of the skilled crafts is to keep the skilled man's packet well above the labourer's. For the general good wouldn't it be better to give differential increases?

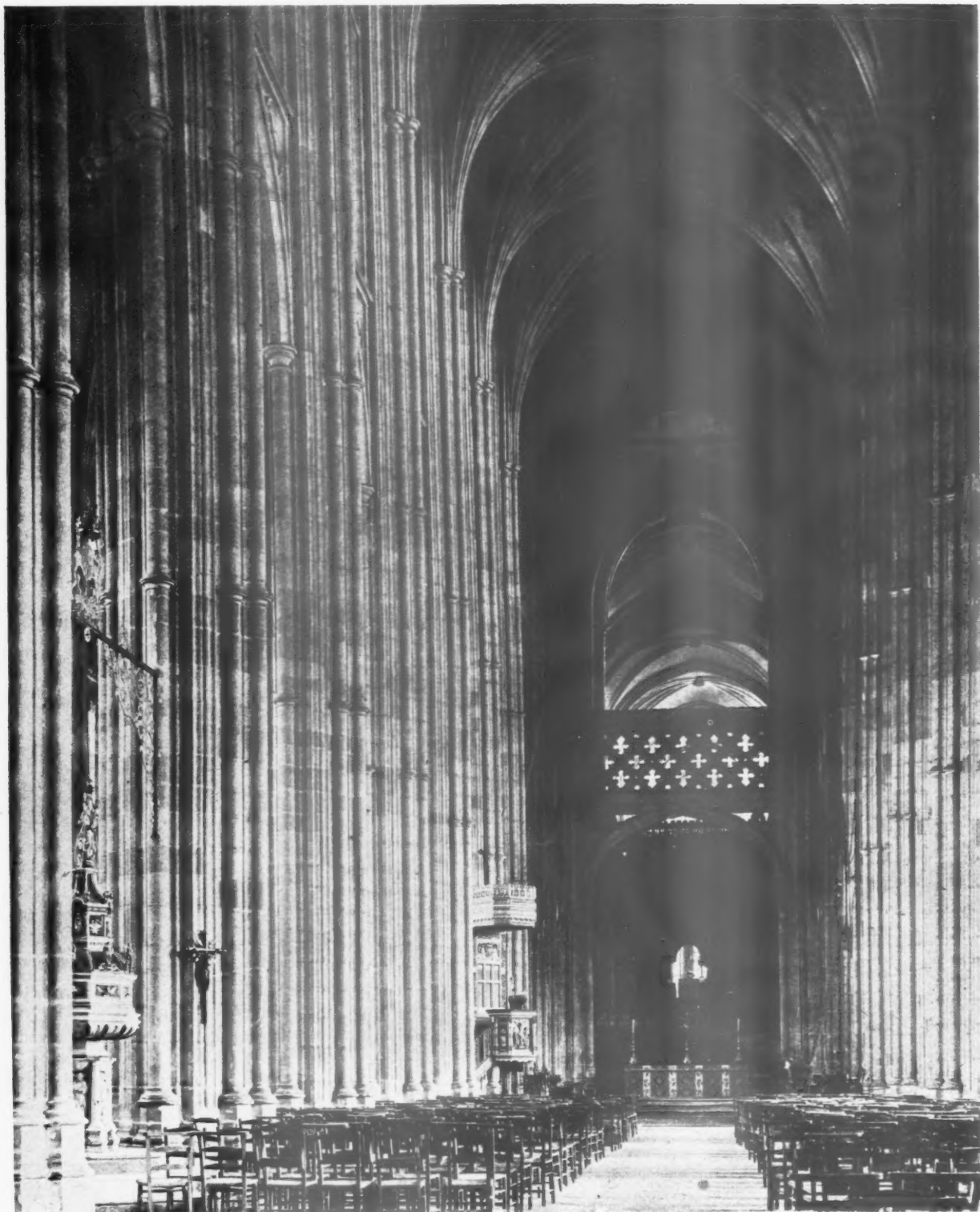
LONDON STREET GARDENS

The BBC Critics' Sunday morning discussion on the rash of little rustic gardens* that has grown up in recent months all over London, made some of the points but not all of them. It is surprising that there was not a louder chorus of condemnation of their *unmetropolitan* architectural character. Even people who like olde-worlde stone walls and wrought-iron curlicues can hardly claim that they are suitable for use in Piccadilly, the Strand and Brompton Road, where the gardens discussed are situated. (See my illustration on this page.)

*

These three happen to be commercially sponsored, but there are also municipal and public gardens showing an equally mistaken conception of how odd corners off city pavements can best be treated: for example the dreary little railed-off flower beds that now surround the Irving statue at the bottom of Charing Cross Road and the still unfinished but very eccentric garden layout (I believe the work of a French architect) behind the Foch statue in Grosvenor Gardens. The subject is one the Critics could profitably return to. To obtain some positive ideas first they might study the feature entitled "Space Left Over" in the *Review* for last October.

* Already illustrated and criticized in the JOURNAL for July 5, 1951.



By the King's Master Mason

It is a far cry from the position of the public architect today back through the centuries to the office of the Master Mason, the "disposer of the King's works pertaining to the art of masonry." By such a title was known Henry Yevele, the fourteenth century craftsman responsible for the nave of Canterbury Cathedral, shown here. Certainly the connection between two such official posts is a tenuous one, but it is nevertheless there. Church and Crown

embodied, in the fourteenth century, the elements of those services to society which today form the essential fabric of a civilized nation. On page 206 of this issue the JOURNAL'S Guest Editors describe the growth of one small facet of these social services—that of public architecture. Their purpose, over the year, is to attempt to define the conditions which would allow the creation of such inspired work today as has been achieved in the past.

TETE AT THE TATE

The previous Sunday "the Critics" had given themselves a "work-out" over the Sutherland portrait of Lord Beaverbrook—on view in the Recent Acquisitions room at the Tate. No doubt it was their spirited debate which helped to cause the crowds there later that afternoon. It was almost impossible to move around at all. There, glimpsed between corduroy coated shoulders, behind the mare's-tail coiffures of artists' girl friends—(standard uniform this, together with wide hemmed skirt, tight jerseys and heavy metal jewellery) and beneath the swinging arc of Lynn Chadwick's stony-headed mobile, sat the Beaver, mauve suited, harshly lit, his yellow craggy face looking as fissured, shadowed and penetrable as James Ward's portrait of Gordale Scar across the hall. A clever, cold picture which does not, I think, quite match up to the Somerset Maugham. It is interesting, nevertheless, to see the lovers of portrait realism joining cosy and appreciative hands with more sophisticated patrons of modern painting.

CORRECTION

I have received the following letter from Professor Holford:—

"For the avoidance of doubt 'as Parliamentary Draftsmen so often say, may I refer to your comment in the AJ for January 31, and make it clear that I am visiting the Department of Regional Planning in the School of Graduate Design at Harvard, and *not* the Department of Architecture. Collaboration between these two departments and the third—landscape architecture—is the very basis of the Graduate School. And this is an added reason why it will be difficult to find a successor to Walter Gropius. May I add that I have never aspired to join the list of candidates."

My apologies for publishing what seems only to have been a rumour, but no withdrawal of my good wishes on this new assignment. It is nice to know that the United States shares our view that Professor Holford is indispensable. We hope that he will not stay away too long. There is no other architect practising in this country for whose achievements the profession has a greater respect.

ASTRAGAL

POINTS FROM THIS ISSUE

- LCC's report on **South Bank's Future**.....pages 203, 210 and 211
- Comments on the **Town Development Bill**.....page 209
- RIBA Council decide against hardship appeals**page 209
- Winning designs in COID cabin competition**page 212

KING GEORGE VI

THE news of the King's sudden death came as a personal blow to everyone, including millions who were not his subjects. British architects mourn not only their sovereign but the titular head of their profession, for King George VI was patron of the RIBA, of the AA and of other architectural bodies besides. He himself conferred annually the highest award signifying eminence in the profession, the Royal Gold Medal.

The sense of loss felt by all members of the architectural profession will therefore be of an especially immediate kind, and thinking about it they will ask themselves what the particular qualities of the reign so tragically brought to an end meant to architecture. The first answer that springs to mind is that during King George VI's reign there finally disappeared the last remnant of that air of formality and pomposity that was once inseparable from royal patronage of the arts. The domestic virtues of the present Royal Family were reflected in their unassuming acceptance of the same scale of values as ordinary people. No longer did royalty claim ceremonious standards of its own. When the King opened the South Bank exhibition and the Royal Festival Hall he took for granted the new architectural adventures they represented. His response to them was exactly that of his subjects.

With a young Queen on the throne this new tradition, characteristic of our century, whereby royal taste is not set apart from public taste, is certain to be maintained. Architects will welcome their new sovereign with loyalty and with all the affection that, as Princess Elizabeth, she has already gathered round her. In welcoming her husband at the same time, they will perhaps recall the last time a queen sat on the throne with a consort beside her, and the profound influence he exercised on the arts and sciences. Architecture, along with the other arts and technologies, depends for its vitality on the ideas of the young and adventurous, who will be greatly encouraged by the presence and patronage of a royal couple of their own generation.



The growth of public responsibility for the design and construction of houses, schools and many other public works, and the evolution of the role of the public architect and town planner, is described in an article by the JOURNAL's Guest Editors, the first part of which appears below. The problems of public architecture are the subject for discussion by this year's Guest Editors, who are shown above. Left to right, Donald Gibson, City Architect and Planning Officer of Coventry; Robert Gardner-Medwin, Chief Architect and Planning Officer to the Department of Health for Scotland; Stirrat Johnson-Marshall, Chief Architect to the MOE; and Robert Matthew, Architect to the LCC.

The Guest Editors •

THE SCOPE OF THE WORK (I)

VIEWED from outside, the whole collection of authorities concerned with public architecture appears as a very large and complicated pattern which at first sight is extremely difficult to understand. This collection consists of many kinds of authorities with very diverse functions. Most of them build, and they seem to vie with one another in the imposition of all manner of controls.

But when one looks carefully into their functions in detail, one finds that all their duties spring from some definite social obligation, that the reasons for their origin seemed logical and sensible enough at the time, and that the muddle—if it is a muddle—has been caused partly by the difficulty in deciding on the best way of carrying out particular duties and partly because, although we live in a small country, it is at the same time one which, since the beginning of the 19th century, has been in the process of rapid and continuous social change.

Before discussing public architecture it is necessary to have a rough idea of the powers and duties of the authorities whose job it is to promote and control it. Let us try to look at those powers and duties and see where and how we fit in.

A BRIEF HISTORY

Glancing back over the years to mediaeval times we see what we now rightly regard as a wonderful heritage of architecture, much of it commissioned by the two most important clients of the day, the Church and the Crown. Until recently the way in which build-

ing was carried out in those times was a matter of some speculation, but, thanks to the researches of J. M. Harvey,* we know a good deal about at least one mediaeval architect. In the 14th century, Henry Yevele was employed as a kind of Royal Architect, and is recorded to have held the office of "disposer of the King's works pertaining to the art of masonry . . ." Among the architectural works that can be definitely ascribed to him are Westminster Hall and the naves of both Canterbury Cathedral and Westminster Abbey.

During the Renaissance the official responsible for organizing building work commissioned by the Crown was the Surveyor General. It was a post frequently held by the leading architects of the time, and, of course, it was inevitable that such men should have royal patronage since the King was the principal client. Right up to the 19th century one finds outstanding figures in official positions, although the conditions of their employment were very different from those of the official architect of today. John Summerson† records that Inigo Jones, when Surveyor General to Charles I, had a considerable hand in the Duke of Bedford's speculation at Covent Garden, while England is dotted about with private commissions attributed to Wren. And, of course, John Nash, although the King's personal architect, and therefore a paid official, was no ordinary civil servant, as Summerson so entertainingly describes.

* Henry Yevele by J. M. Harvey.

† Georgian London by John Summerson.

AWAKENING OF PUBLIC SOCIAL CONSCIENCE

During the 19th century fundamental changes were taking place. The unprecedented increase in population of the new industrial cities created a new and growing problem. It was recognized that their essential needs of health and education could no longer be left to chance or charity, and one of the outstanding developments of the period was the growth of government responsibilities for the social services devised to cope with their needs.

The Government had already made a beginning in the matter of road building, where the responsibility evolved from the old turnpike trusts, via the parishes, to a properly organized local government service which was carried out by statutorily appointed surveyors. These surveyors formed the first local authority technical service throughout the country, and eventually developed their own separate professional body—the present Institution of Municipal Engineers.

But to return to the growth of the social services. In the first quarter of the 19th century all manner of diseases and epidemics were rife in the cities. Outbreaks of cholera, which occurred in almost regular ten-yearly cycles from 1848 to 1893, were the last straw, and a whole series of Acts of Parliament concerned with public health followed.

Broadly, these Acts recognized public responsibility for the health of the community at large, and that part of our national income should be spent on seeing that its health was maintained. From this recognition sprang the concept of preventive medicine, which led from urban cleanliness (sewage disposal and a good street system) through building regulations, and housing, to town planning.

INTERPLAY OF CENTRAL AND LOCAL GOVERNMENT

One might almost say that the Local Authority system as we know it today was brought into being by this legislation, for, though the Government set up a central body* to organize the job on a national basis, all along the Government relied on local action to carry out actual building. From the Government's basic responsibilities towards Parliament have sprung the control of general policy, finance and therefore the establishment of standards by Central Government Departments, and it inevitably became their duty to see that the work of all the Local Authorities was being properly done. The interaction of these Government responsibilities on the one hand, and, on the other, of the Local Authorities actually doing the work, has become a national tradition. All the social services followed this precedent and the order in which they devolved

* First the General Board of Health later the Local Government Board, later still, the Ministry of Health.



Covent Garden—the product of speculative building on the part of the fourth Earl of Bedford and King Charles' views on town planning expressed through his Surveyor General, Inigo Jones.

on Local Authorities over the years was roughly, sewers and drains, hospitals, housing, schools, other public buildings, and finally, town planning. Only since the last war has there been a movement away from this tradition, with the establishment of Central Government agencies for the hospital service, and gas and water and electricity undertakings. Incidentally; so important is this tendency to centralize and enlarge that we will examine it in more detail later on.

THE GROWTH OF THE PUBLIC ARCHITECTURAL OFFICE

And what was happening to Public Architecture while all these changes were taking place?

Summerson* describes the collapse of the old tradition of royal, aristocratic, and to a lesser extent, church, patronage at the very time the new public tradition was being born. The best architects of the 19th Century were attracted by the demands of the hundreds of new industrial and commercial clients who took the place of crown and nobility and who ordered

the building of houses, factories, warehouses, offices and shops.

We have seen how the technical responsibilities of the Local Authorities began with the making of roads and sewers, and only later with the construction of buildings, and later still with the making of town plans. Because of this the Surveyors' Department was the first technical office to be established, and because it was expedient all additional technical duties tended to be automatically passed to it, whether they were appropriate or not.

Anything that was thought to be Architecture, with a capital "A" was properly handed to architects, who had made their reputation by building for the new private clients, but after the turn of the century the larger local authorities began to realize that it was often cheap and convenient to employ architects in a full time capacity. Partly owing to the reluctance of incurring the expense of a new department and partly due to the fact that a "Technical" department was already in existence, many Authorities were content to make their architects work as assis-

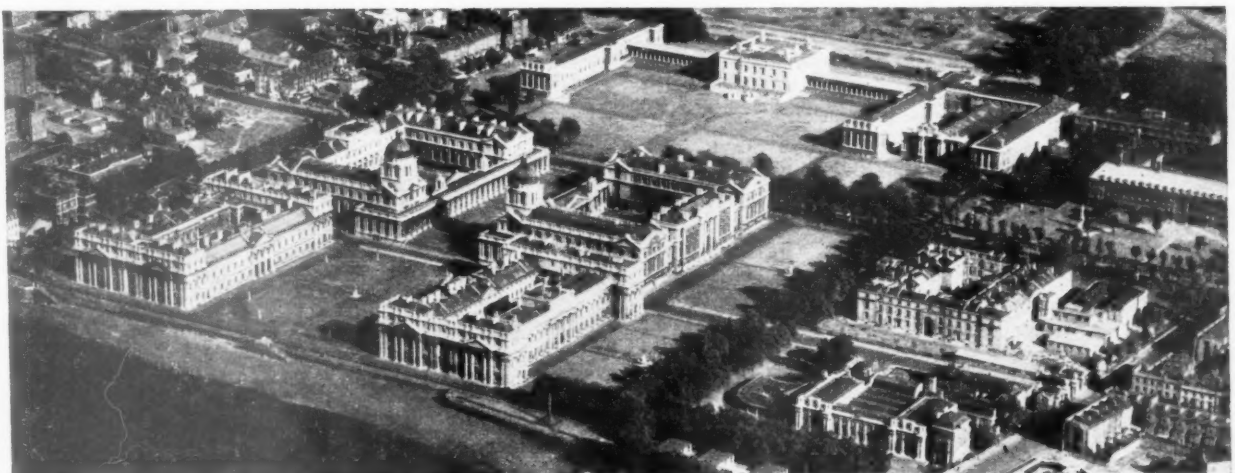
stants in the "borough surveyor's department." In any case, most important public buildings continued to be given to private firms and so developed the unfortunate situation in which the official architect was regarded as qualified to carry out only the hack routine work.

With the very great increase of public responsibility for the building of houses and schools after the first world war many more authorities set up independent architectural departments. Because they started as small units they were naturally organized on the same basis as a private office with a principal and assistants. This arrangement, although reasonable enough to deal with a small volume of work, gradually developed into the "pyramid" form of organization when new legislation brought a large increase of building work.

CENTRAL GOVERNMENT: ADVISORY DUTIES

It is important at this juncture to see how and why the technical duties of central government departments developed. Ministries have two main architectural functions, advisory and executive, some having either one or the other, and some, like the English Home Office and the Scottish Department of Health, having both. Let us look first at those with mainly advisory duties.

We have seen how the social services were operated largely on the basis of the expenditure of central government funds by local authorities. In order to ensure that money was wisely spent and that minimum standards were attained, all local authority architects (or private architects acting on behalf of the authority) were obliged to submit plans to the relevant ministry, and it was therefore necessary to employ government architects to advise the administrators, first to devise technical standards, and then to ensure that the submitted plans complied with



Queen's House, Greenwich (Inigo Jones), and, in the foreground, Greenwich Hospital (Christopher Wren), both designed by the seventeenth century forerunner of official architecture, the Surveyor General.

* *Op. cit.* pp. 274.



Gloucester Lodge, Regents Park, the northern extremity of the piece of town planning executed by John Nash, architect to the Woods and Forests, which extends to Carlton House Terrace and St. James's Park in the south. This is the only major planned development of London which has ever been projected and completed.

the technical standards and that Parliament was getting value for money. This system is operated by the Ministry of Health, the Ministry of Housing and Local Government for housing, and by the Ministry of Education for schools. The Ministry of Education have recently made some changes and now exercise their duties in a new way to which we will refer later.

TOWN AND COUNTRY PLANNING

In spite of its zealous advocates, the need for town and country planning dawned slowly on the country as a whole. A new and complex planning service has recently been established. It began as an extension of housing, and hence became an advisory duty of the Ministry of Health who followed existing procedure by producing a set of model clauses, rather like model building bye-laws, and by demanding that plans should be submitted to them for examination.

The whole system was comparatively ineffective for a number of reasons, which need not be mentioned here, but the impact on our cities of wartime bombing hastened overdue legislation. The new Ministry of Town and Country Planning was established in 1943. It was given both advisory and executive powers from the outset. Its recent legislation (principally the Town and Country Planning Act, 1947) has created a completely new planning system, backed by much larger financial and legal powers.

The Act enables local planning authorities to deal comprehensively with large urban areas. This is an opportunity which has been denied to the urban designer since the 18th century. It would take too long to describe all the responsibilities either of the Ministry or of the local planning authorities, but as their activities impinge so much on public architecture, it is inevitable that we shall refer to some of them in due course.

CENTRAL GOVERNMENT: EXECUTIVE FUNCTIONS

The second group of government departments are those mainly concerned with executive building functions. Among those lesser known are (1) the Home Office which has executive duties such as prison building, but also advises local authorities on buildings such as fire stations, and (2) the Ministry of Transport which is in charge of roads, docks, harbours, and other works, mainly of a civil engineering nature; and the Department of Agriculture for Scotland which builds farmsteads, laboratories, and training centres.

The Government's principal executive building agency is, of course, the Ministry of Works. In Renaissance times the Surveyor General was responsible, as we have seen, for building and maintaining all buildings and properties belonging to the Crown. When new Governmental duties of a more impersonal nature were added in the 19th century, in 1832 the office was reorganized and became the Office of Works.

In the 20th century the old as well as the new government departments have enlarged their building demands. The war resulted in a great extension in the quantity and variety of government building. As a result, the Office of Works became a full scale government department and was given the title of Ministry of Works. Its executive duties are varied enough: at one extreme, the care and maintenance of historic monuments, at the other the construction of atomic energy establishments. Even though a great deal of Government building work is carried out by private architects, a considerable programme is carried out directly by the Ministry all over the country. For example, during 1950 new research and production buildings for the Ministry of Supply and for the Department of Scientific and Industrial Research exceeded £11 million. In addition, the Ministry carries out a very important advisory duty. During the war, a considerable amount of planning of production and distribution was essential for the country's survival. With materials and labour in very short supply and with an urgent building programme for defence and the Services, it became necessary to institute a system of controls. Since the war this system has continued in being, mainly in the form of building licences which are issued by the Ministry of Works.

The rationing by most Ministries of scarce materials and the allocation by the Ministry of Works of starting dates have added further to the list of checks and authorizations whose sum total has increased imperceptibly over the years. When seen in perspective the administrative pattern has two main faults. First, it is too complicated, and secondly, it tends to take away too much of the initiative of the better Local Authorities. Architecture suffers not so much from the controls themselves as from the methods in which they are operated. This subject forms an essential part of our discussion.

So far, then, we have seen how the story of the social services has also been the story of the development of a new tradition in public architecture, with the twin growth of local authorities to carry out the new buildings and Government departments to watch over them and to co-ordinate their activities. We have also seen that the new system enables the architect to tackle his broader job of town building. It will be necessary for us, in examining the scope of the public architect's work, to look a little more closely into the various duties of the network of local authorities which cover the country, and we must also deal with the remaining public agencies concerned with architecture. These include the Department of Health for Scotland, the Building Research Station, the new Corporations, Boards and Executives. It is with all these that our next article will be concerned.

ERNEST WATKINS

The Architect and Current Affairs

THE TOWN DEVELOPMENT BILL

The text of the Town Development Bill has now been published. In outline, it can be described as a Bill to enable those county boroughs and county districts (and the County of London) that are developing fast to step over existing local government boundaries in the process with a good deal less than the present fuss involved, but it raises more questions than the one problem of the "overspill" population itself. Is it, for instance, a confession that the Ministry feels that the New Town idea does not provide all the answers? Is it, too, a confession that reform of local government generally is still a very long way off?

Briefly, the Bill is concerned with this one problem, "town development," defined as development in a county district intended primarily to provide housing accommodation that will relieve congestion and overpopulation "elsewhere." "Elsewhere" itself is defined as in a county borough, the County of London or a county district outside the county where the development is planned. The Bill, then, does not affect development going on inside the one local government unit, county borough or county. It only affects development in, so to speak, an alien area. Provided the Minister is satisfied that the proposed town development is of this kind, he can both promote it and assist it in various ways. He may make grants, beyond the normal housing subsidy, towards the cost of acquiring and developing the site in the first place. He can make grants towards the cost of the new water and sewage works involved.

His powers will not be confined to giving financial aid. The Minister can take action to compel a reluctant "receiving" authority to co-operate. The power of compulsory purchase of land for town development will be extended to cover land not earmarked for compulsory purchase in the existing development plan of the "receiving" authority. If action towards development is "prevented or hampered by the inability or unwillingness" of the receiving authority to act, the Minister may make the appropriate orders without its consent. There are corresponding powers over the public authorities supplying water and sewage disposal services. In short, the Bill would considerably widen the powers of the Minister to back up an energetic town authority looking for a convenient home for its excess in population put penned in by the rigid lines of existing local government boundaries. In engineering terms, the walls are not to be pulled down. The Bill provides ramps the better to cross them with.

The circumstances which underlie the Bill are fairly well known. There are places where the county districts around a county borough have been most stubborn in their refusal to allow the town to spread into their territory. But some might say that to use the word "stubborn" at all is to prejudice the case. Why should the people of the county districts be made to give up their amenities and atmosphere and submit to urbanification? The answer, sadly, is very similar to that given by the Walrus (or the Carpenter). It is the fate of oysters to be eaten. In the old, unregenerate days, the landowners around the growing town sold the land and the private builder completed the transformation. No Act of Parliament was needed to promote that chain of events. Today, the same process continues but the local authority has taken over the former roles of both landowner and private builder.

But the impact of this Bill on the Greater

London area makes a separate problem of its own. The New Towns around London were designed as the overspill areas for London. It was intended, so the supporters of the projects urged, that London should no longer just nudge its way outwards by a process of continuous expansion of the perimeter. Its people should be led out towards defined and limited objectives, to Harlow and Crawley, to Hemel Hempstead and Bracknell. True the LCC has not paid very much attention to this plan over the last five years, but that was, it seemed, a temporary necessity. Now, the LCC method of going about things is to be given formal approval. For a Labour Council dealing with a Conservative Minister, it has done very well.

Has it done too well for the common good? That remains to be seen. After all, the Bill, as planned, is permissive. There is no suggestion that the Ministry intends to drop the New Towns. The Minister is asking Parliament to untie his hands.

When Parliament comes to debate this Bill, it is to be hoped the second reading debate will be a serious attempt to strike a balance sheet for the New Town conception. The New Towns Act was based on the belief that the council of the typical Home Counties small town had neither the power nor the wish to quadruple its size and so change its whole nature. The job needed a special body, the development corporation. That has meant a considerable overlap in administration, but is the basic premise unsound? Will Woking, for example, absorb its LCC housing estate as thoroughly as Hemel Hempstead its New Town? Certainly nothing is worse for civic feeling than a large undigested housing estate belonging to an alien authority. Bills which, like the Town Development Bill, are intended to be permissive should not be condemned. But they should be watched.



RIBA

"No Hardship Appeals" says Council

Some time ago many architectural students were disappointed to learn that their five years' school training would have to be followed by twelve months' office training before the RIBA would grant them an associateship. Then came a hope that cases of hardship would be heard by a tribunal. But the RIBA Board of Architectural Education was against the idea. And now the RIBA council has backed the Board's decision. Their reason is that such a scheme would not have been made to work fairly. One of the main complaints made by students about

the requirement that they should do a year's office work before qualifying was that they had not been told this when they started on their five-year school course. This criticism would not be answered, in the opinion of the RIBA council, if a tribunal was introduced. The council points out that the scheme was first announced in October, 1949, and believes "it would have been wrong in the interests of the community in general, and of the profession and students in particular, to postpone the operation of the scheme."

COMPETITION

Golden Lane Housing

178 designs have been submitted by architects in a competition for the housing scheme which the Corporation of London proposes to erect on a site in Golden Lane, Finsbury, E.C. The award of the accession, Donald H. McMorran, will be announced on Wednesday, February 27.

Premiums of 1,000, 700, 500 and 300 guineas will be paid to the authors of the four winning designs.

The scheme, which is the Corporation's first large housing project since the war, is expected to cost approximately one million pounds.

HOUSES

Figures for December

The MOHLG announces that 19,322 houses were completed in Great Britain during December, compared with 17,819 in November and 15,950 in December, 1950. The number of permanent houses completed during 1951 was 194,831. The corresponding figure for the previous year was 198,171. The number completed under the post-war programme is now 1,016,349 (plus 157,146 temporary dwellings).

STEEL

Distribution Scheme

The Minister of Supply, Duncan Sandys, has made an Order authorizing a number of adjustments in the iron and steel distribution scheme. This came into operation on February 4. Consumers may use the stock held at the close of February 3, 1952, for a purpose for which they hold a control authorization. The holder of a control authorization may send material out on loan to be worked up for him. This amendment is designed to cover the "free-issue contract" customary in some trades for outside processing of material.

Two new items—wire rod reinforcement fabric mesh—have been added to the list of controlled forms of steel. The list of small quantities exemptions has been extended to permit the purchase without licence of 5 cwt. a month of these items and also one ton a month of "Large Spring."

The Order is the Iron and Steel Distribution (Amendment No. 1) Order, 1952 (SI 1952, No. 172), and is obtainable from HMSO (price 4d.).

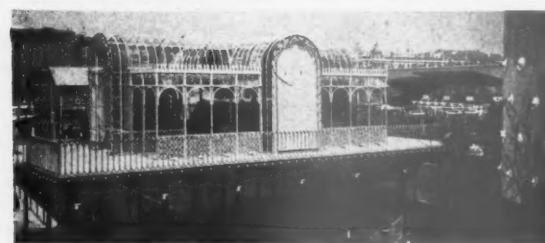
The MOS also announces that, as from April 1, 1952, the separate allocation of non-alloy steel sheet will be abandoned. Thereafter such steel sheet will for allocation purposes be merged in general non-alloy steel. Consumers will be free to decide for themselves, within their total authorized tonnage how much they wish to order in the form of non-alloy sheet steel and how much in the form of other non-alloy steel (other than tinplate, terneplate and blackplate which will remain subject to separate allocation as at present).

THE SOUTH BANK REGAINED: THE LCC DECIDES

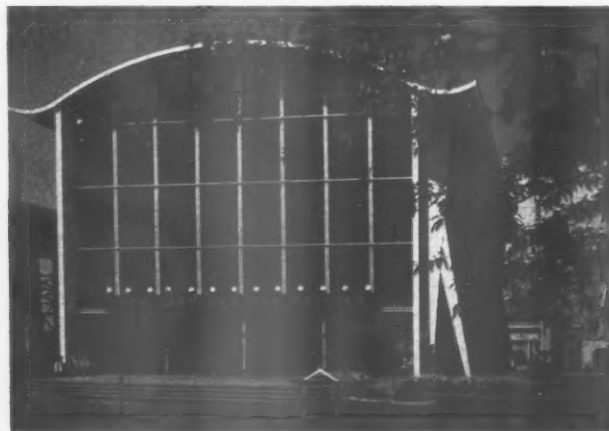


Last week the LCC's General Purposes Committee put its report on the temporary future of the South Bank to the council, which adopted it. Details are given in the news item on the right, in which Exhibition features are referred to by the numbers in the aerial photograph above. Left: top, Thames-side Restaurant and Richard Huw's water mobile; centre, look-out platforms and Telekinema; bottom, 1851 pavilion. Below: top, Lion and Unicorn pavilion; bottom, overhead walk and Homes and Gardens.

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MEETING OF "MEN OF THE YEAR"

SOUTH BANK

Its Immediate Future

Since last September many ardent South-Bankers have waited anxiously to hear what is to happen to the Exhibition site until permanent development on it is possible. Last week they learned that the LCC wishes to retain many of the Exhibition features. Not all the recommendations made in the report submitted to the council by Hugh Casson, Robert Matthew and the Chief Parks Officer were included in the report which the General Purposes Committee put to the LCC last week. But the report was adopted by the Council and the following notes, read in conjunction with the aerial photograph, left, will give the reader an idea of how much of the South Bank may be regained by the summer. The Riverside Walk, which will later be laid out as memorial gardens, will be retained. This Walk runs from (8) the Thameside Restaurant (to be retained), past (6) the Rodney Pier, the future of which is uncertain, to (4) the '51 Bar, which will be demolished. (The Walk will be opened at (4), so that it runs straight on past the County Hall.) The Walk, which will be "suitably" illuminated, will retain—as the JOURNAL has recommended—Richard Huw's water mobile, the trees, the fountain pool and harbour and the look-out platforms in front of (1) the concert hall. The lamp-posts, seats and open railings on this Walk will also remain. The (5) upstream section of the Walk will be screened from the rest of the upstream area (extending to (3) the Waterloo Station Gate), which is to be leased to the MOW, by a wall which forms part of the boundary of the Sea and Ships pavilion. (This pavilion, between the Dome and the Nelson pier—to be removed—will be largely demolished.) Among buildings to be removed are (2) the Lion and Unicorn pavilion, (10) the Homes and Gardens pavilion, and the TV building between (2) and (11). The Telekinema (11) will be retained, as will (7) the Shot Tower and the adjoining 1851 centenary pavilion. The sports arena between (7) and the river will be used for a children's playground and the pool nearby will continue to be used, though the bridge which crosses it from Waterloo Bridge to the concert hall will be removed. The future of (9) the administration block has yet to be decided. The Dome and the Skylon may be moved to another site, but no decision has been made. The Regatta Restaurant beside the Hungerford Bridge will be demolished. The sites of most of the demolished buildings will be laid out as extensions to, or approaches to, the Riverside Walk.

AMERICAN DESIGN

Defended by British Speaker

A defence of American design was made by Wyndham Goodden, director of The Rayon Design Centre, at a discussion on American industrial design, which took place at the Royal Society, Burlington House, recently.

Mr. Goodden, speaking at a meeting of the Design and Industries Association, said the United States was a very young, a very mixed and a very different country from ours, and that we should not judge it by our own standards, which were the product of centuries of evolution. "Streamlining" was an example of an American tradition—stemming from the Inca, Aztec and Red Indian civilizations—which made sense over there and none when used ignorantly elsewhere. Americans did not have, on the whole, our "Rolls Royce" attitude to manufacture—that is, making things superlatively and to last—though when they wanted to do a thing well they did it very well. Designing for obsolescence, said Mr. Goodden, was no less reprehensible morally than designing for



In the JOURNAL's New Year Number (January 17) "Men of the Year," nominated by Astragal, were invited to tell readers (among other things) how and why they were architects. Last week, one of them—Douglas T. Wallis—gave a party to the others at his office in South Kensington. Some of them are seen in these photographs. Above (right to left): Eric Brown, principal of the Department of Architecture, Kingston School of Art; J. W. MacGregor; Jean Sheppard, who is partner to her husband and Geoffrey Robson; and Douglas Wallis himself. Below (right to left): Hidalgo Moya, of Powell and Moya; Michael Pattrick, principal of the AA School of Architecture; Philip Powell; Ove Arup; Maurice Russell, of Russell, Cole and Bender; and Jean Sheppard.



perpetuity. Americans looked at things with a livelier and more unprejudiced eye than we did; they saw design, not as a piece of good manners but as an exhibition of vitality.

Another speaker, Paul Piech, an American free-lance advertising artist working in London, stressed the influence of advertising on all Americans, an influence whose value was a matter of dispute among economists and sociologists. Whether this influence was benign or vicious, advertising had carved out its niche in the national life; intensified competition since 1945 had inspired art directors in agencies to make advertising no longer merely decorative, but compelling. The gap between commercial and fine art had diminished almost to vanishing point; advertisers had found good design was good business.

Mrs. Phoebe Stanton, assistant cultural relations officer at the American Embassy, described the comprehensive and conscientious training in industrial design which America supplied: no fewer than fifty-two institutions—universities, museums, schools of technology, etc.—offered courses, and the principal courses were for four years. Trying to assess the effect of all this education, the speaker thought that at least it gave students four years of good teaching and exposure to art history and design problems, and that future American design would be the product of these training schools.

Another speaker, Robert Sowers, a Full-bright Scholar in Great Britain, was emphatic in separating good design—fitness for function—from what he described as "hothouse culture," i.e., extraneous "art," as exemplified in the superfluous ornament which at the end of the nineteenth century overwhelmed straightforward American design in such things as tools. This "ornamental" influence was a legacy from the French Academy and had been encouraged by Lord Duveen's peddling of pictures such as Gainsborough's "Blue Boy" to influential Americans. It showed today in the unnecessary devices and gadgets that might clutter up such a simple thing as a pair of welding goggles. Even though the machine world had its vulgar side, said Mr. Sowers, America was right to put faith in it, as the machine world had come to stay.

YORK

1952 School

The 1952 Summer School of Architectural Study will be held at York from August 9 to 23.

DIARY

An Investigation of Whole House Heating. F. C. Lant and J. C. Weston. At ISE, Storey's Gate, S.W.1. (Sponsor, DSIR.) 5.30 p.m.

FEBRUARY 19

Obsolescence and Slums. Llywelyn Roberts. At 13, Suffolk Street, S.W.1. (Sponsor, H.C.) 6 p.m.

FEBRUARY 19

Annual AA Exhibition of Photographs by Members. At 36, Bedford Square, W.C.1. Monday to Friday: 10 a.m. to 6 p.m. Saturdays: 10 a.m. to 1 p.m. UNTIL FEBRUARY 22

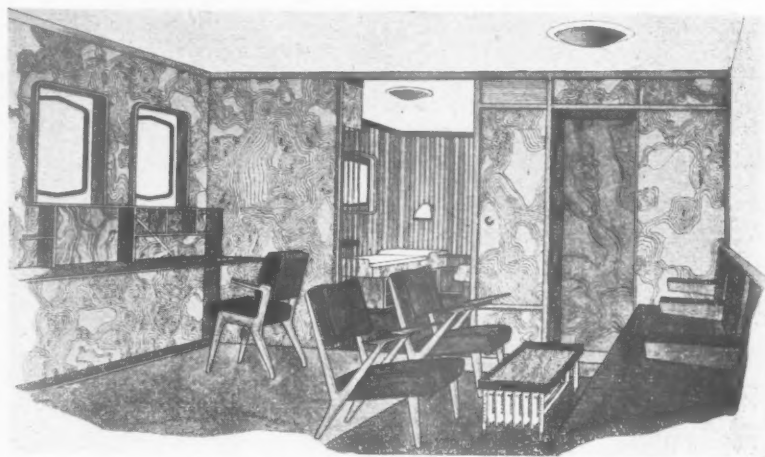
Houses 1952. Exhibition illustrating the second appendix to the Housing Manual. At the Building Centre, Store Street, Tottenham Court Road, W.C.1. 9.30 a.m. to 5 p.m. (Saturdays, until 1 p.m.).

UNTIL FEBRUARY 23

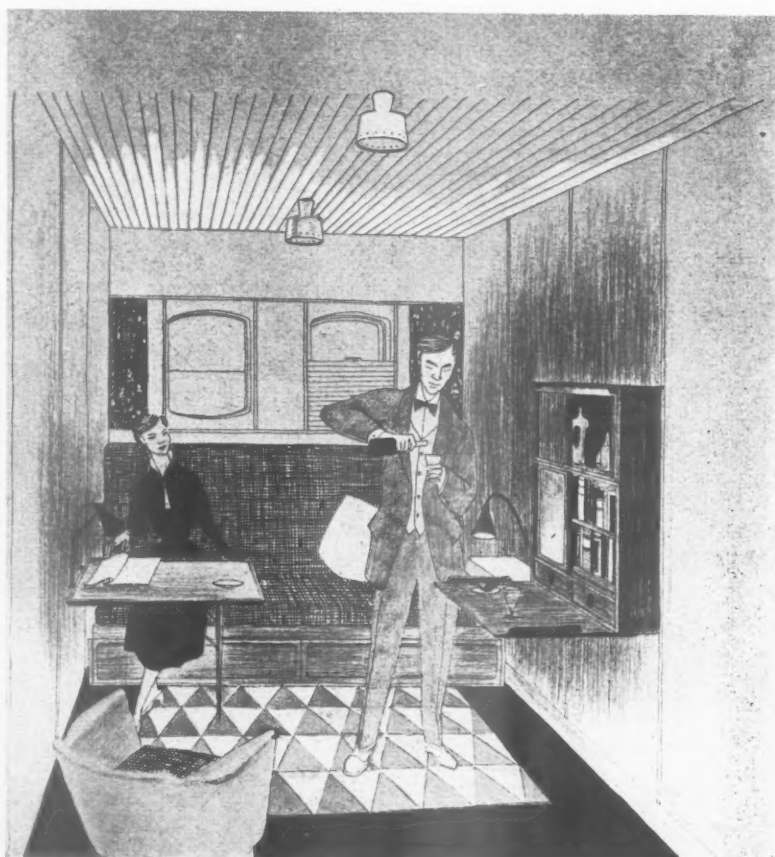
British Furniture Exhibition. Earls Court. Until February 16: 10 a.m. to 6 p.m. Saturday, 10 a.m. to 7 p.m. February 18 to 23, 10 a.m. to 7 p.m. Public only at following times: both Saturdays, from 10 a.m. to 7 p.m. From February 18 to 23, daily from 2 p.m. to 7 p.m.

UNTIL FEBRUARY 23

THE COID SHIP'S CABIN DESIGN



The £250 prizewinning design in this competition—seen above and right—was by Ian M. T. Samuel, 22-year-old architectural student at Edinburgh College of Art. Materials used: floor, monolithic plaster; bulkheads, 7-ply wood faced with hardwood veneers; ceiling, absorbent hardboard finish; window frames (hinged and clamped), bronze; sliding shutters, bubinga (main cabin) and grey sycamore (sitting room); skirtings, macassar ebony. Below: part of design which won special prize of £100 for Professor R. D. Russell and Associates, of the RCA. Floor: black marbled lino, grey and white rug; ceiling, 1/4-in. boarding with white cellulose eggshell finish; walls, black bean veneer on plywood; furniture and fittings, black bean veneer, solid throughout.



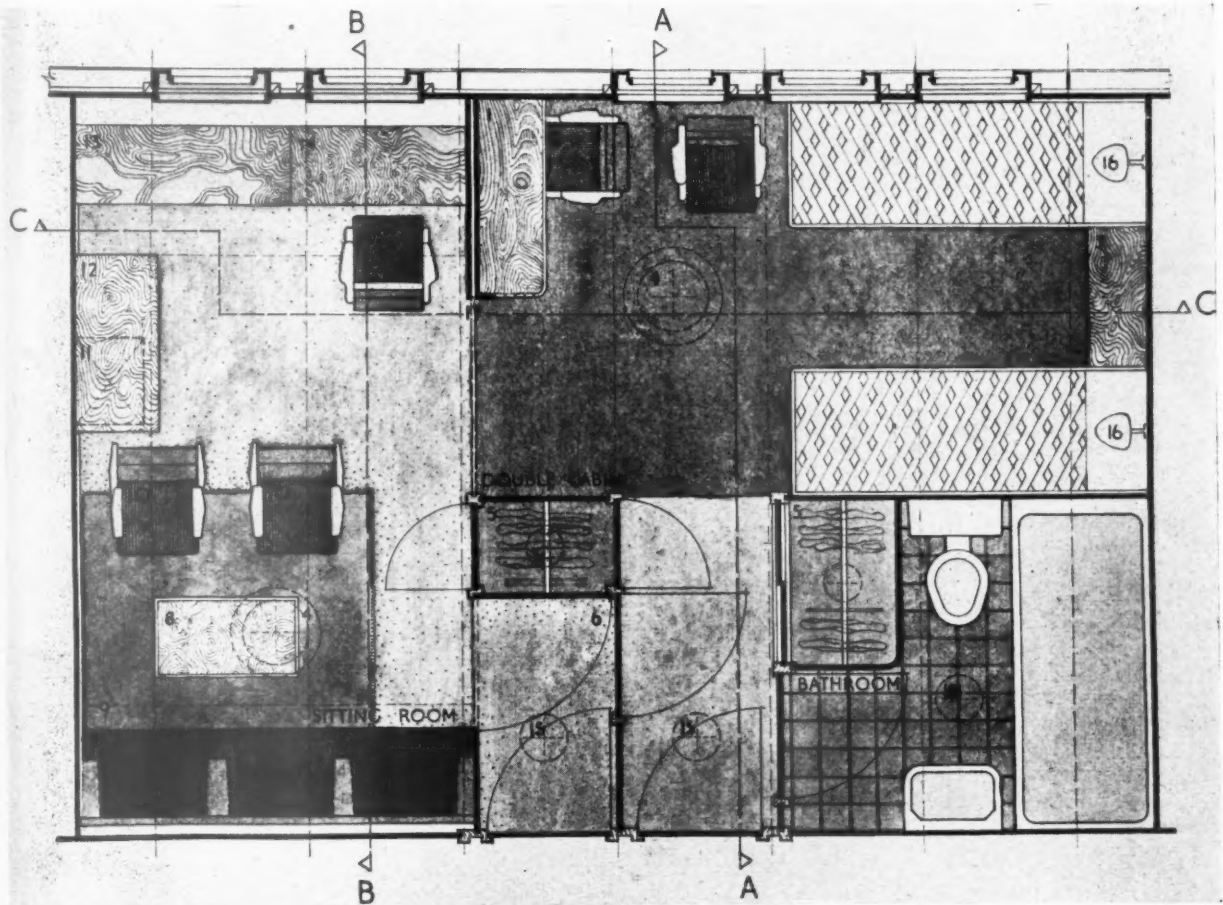
Plan

Key

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Section

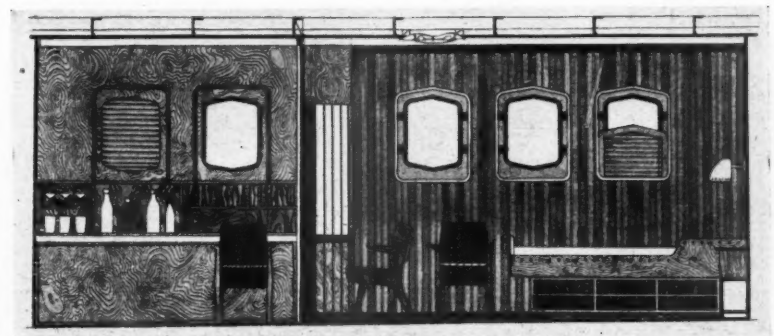
COMPETITION : PRIZE-WINNING ENTRIES



Plan of winning design

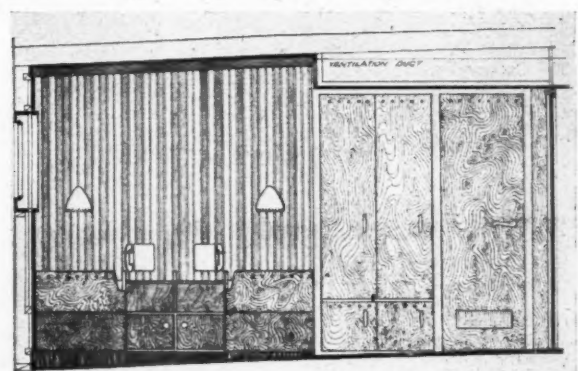
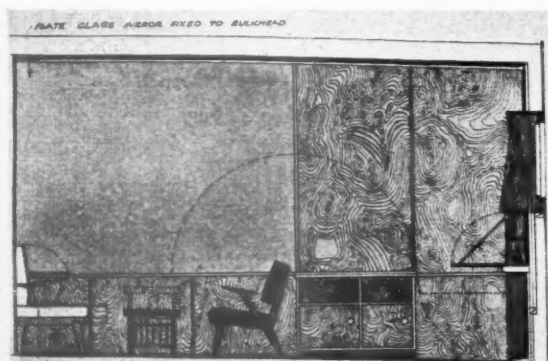
Section A-A

- Key
1. Dressing table (polished bubinga finish)
 2. Occasional chairs (Australian pearwood)
 3. Bedside cabinet (polished bubinga finish)
 4. Concealed ceiling lighting (spun brass)
 5. Fitted wardrobes with automatic lighting
 6. Convertible porch (part of wardrobe when not required)
 7. Bedsettee (bottom left) with folding arms and pull-out seat
 8. Occasional table (grey sycamore)
 9. Loose rug
 10. Easy chairs (Australian pearwood)
 11. Concealed washhand basin
 12. Folding table (grey sycamore) becomes dressing table for subsidiary cabin
 13. Folding front of cocktail cabinet
 14. Folding writing table with bed under
 15. Small flush ceiling lights (spun brass)
 16. Bed lights (translucent glass, engraved pattern)
 17. Sliding door



Section B-B

Section C-C



SHOP

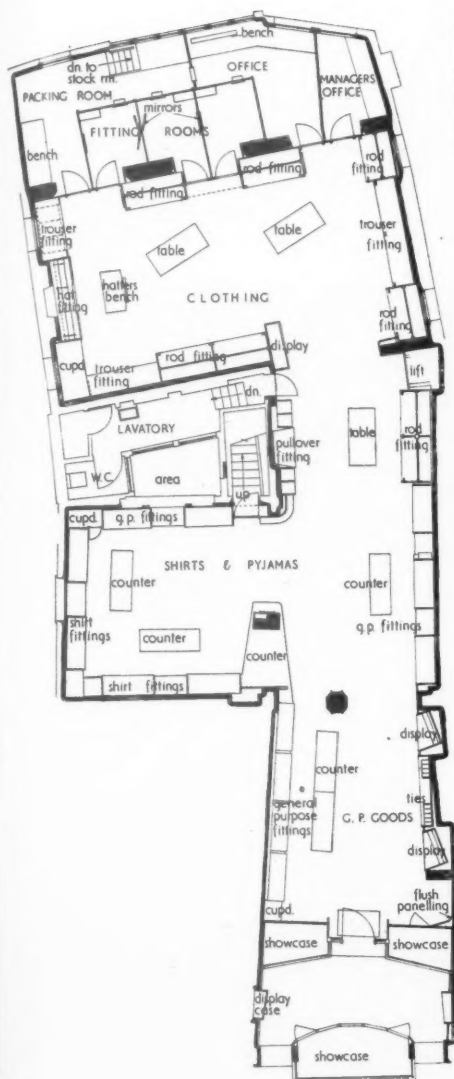
in EAST STREET, BRIGHTON

designed by WESTWOOD, SONS and HARRISON

Reconstructed premises for Austin Reed Ltd., at 70, East Street, Brighton, were formerly used as licensed premises and consequently have a basement and cellars under the whole building. Only a small part of the area below ground floor level has been found suitable as a stock room, but there is access at basement level to a lane at the rear for a goods entrance. There is fairly extensive sales area on the ground floor but a very restricted frontage.

The main entrance door on left.

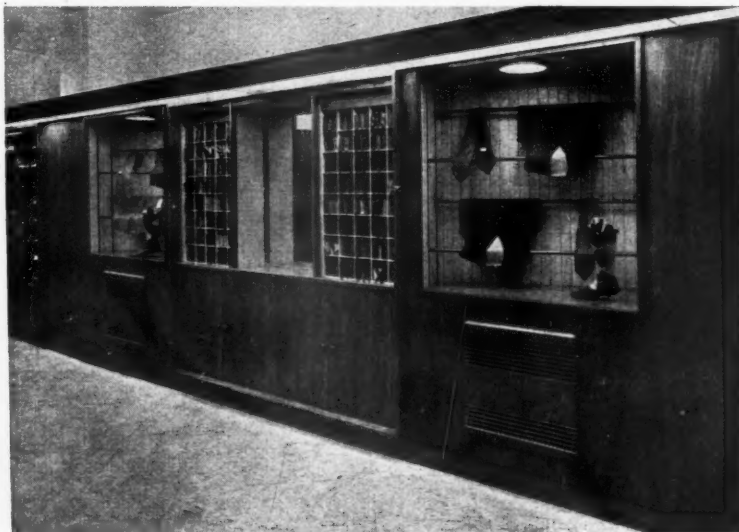


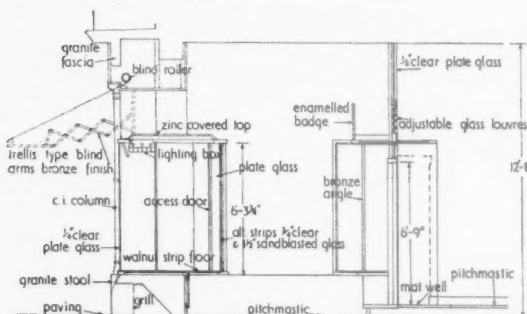


Ground floor plan [Scale: $\frac{1}{4}$ " = 1' 0"]

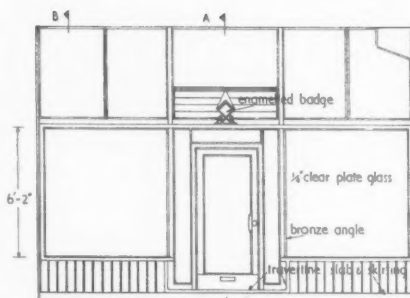
Below right, looking from the clothing department into the general purposes area. Centre right, shirts and pyjamas department. Bottom right, tie display on right of main entrance. Bottom left, umbrella display.

PLAN.—The restricted frontage and narrow pavement made it desirable to form a new recessed front to give greater display space, but this would have required a considerable quantity of steelwork and a licence was refused. The existing front, which had to be retained and adapted, consisted of a shallow projecting window, with a door at each side. The doors were removed and a new entrance screen

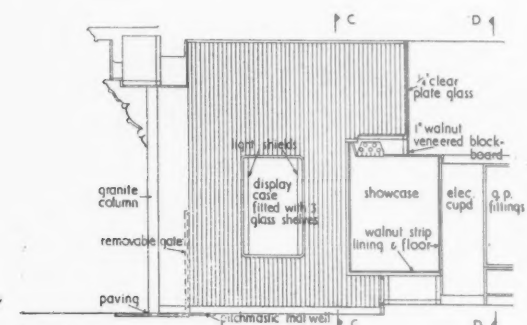




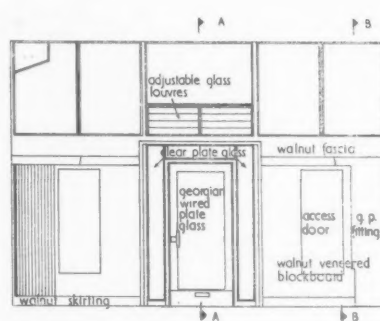
SECTION A-A



SECTION C-C



SECTION B-B



SECTION D-D

Elevations and sections of main entrance [Scale: 1" = 1' 0"]

SHOP

in EAST STREET, BRIGHTON

designed by WESTWOOD, SONS and HARRISON



Above, general purposes department. Below, typical fitting room.



erected approximately on the line of the back of the proposed recessed front comprising two showcases with central doorway and glazing over. The original window, reduced in height and with a new back, remains as an island showcase. The ground floor consisted of three main intercommunicating rooms with a glass-roofed servery behind. The servery now accommodates fitting rooms and offices and the three main rooms are allocated to general purpose goods such as ties, underwear and collars; shirts and pyjamas; and suits, overcoats and hats.

FINISHES.—The new fascia board, window frames, etc., are in iroko with special weather-resisting polish for ease of maintenance under seaside conditions. Walls are completely concealed by fittings up to 7 ft. high and these are mainly of walnut with sycamore in special display recesses for contrast. Walls above fittings and ceilings are painted with eggshell finish. A special feature of the shop is the use of open fittings serving the dual purpose of holding the maximum of stock and at the same time displaying the goods. In the general purpose and shirt departments goods are held in small movable trays with low fronts giving maximum visibility and ease

replacement. In the clothing department most goods are displayed in open-fronted rod fittings arranged with alternative rod positions to accommodate either two tiers of jackets or suits or one tier of overcoats or dressing gowns. The only goods not displayed in open fittings are hats, which are kept behind glass sliding doors. Holland blinds are provided on all open display fittings and drawn at night. It is considered that in normal provincial cities no other protection is needed and the advantage of presenting the goods to the customer without any visual barrier will more than offset the danger of goods becoming soiled by the atmosphere. In order to attract attention to the fittings, these are more brightly illuminated than the shop as a whole. A continuous lighting cornice projects in front of the fittings in the front part of the shop, with opaque plastic louvres arranged to throw the light backwards on to the goods, while shielding customers' eyes. Lighting throughout is by fluorescent tubes but to rectify the deficiency in yellow light tungsten filament lamps are also used. A pneumatic cash system has tubes run on the basement ceiling and a motor in the rear part of the basement.

The general contractors were Bartley & Ward Ltd.
For sub-contractors see page 230.

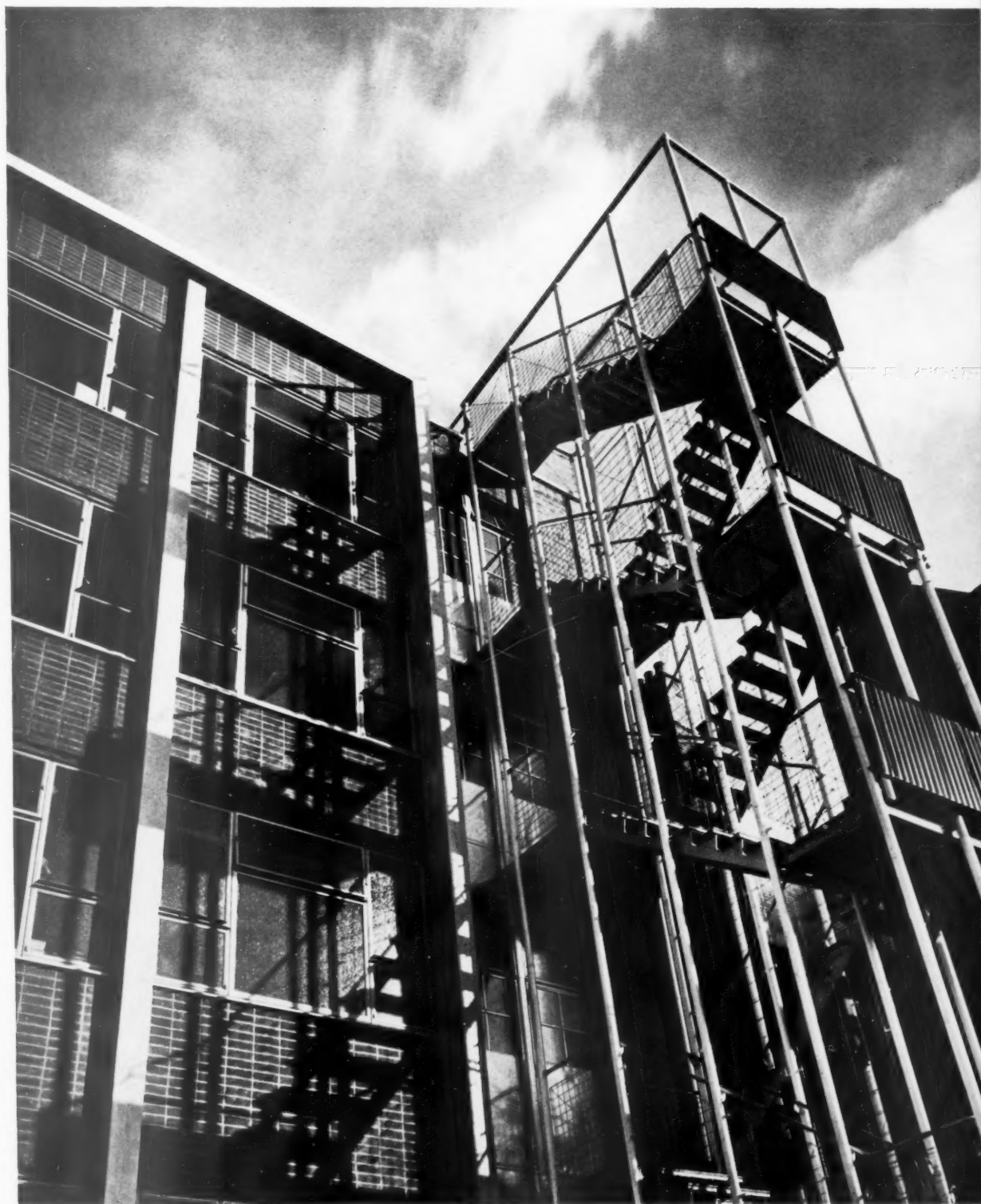
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WORKING DETAIL

STAIRCASES : 10

EXTERNAL ESCAPE STAIRCASE : OFFICES IN LONDON, S.W.1

Bertram Carter in collaboration with Dynelky, Luker and Moore, architects



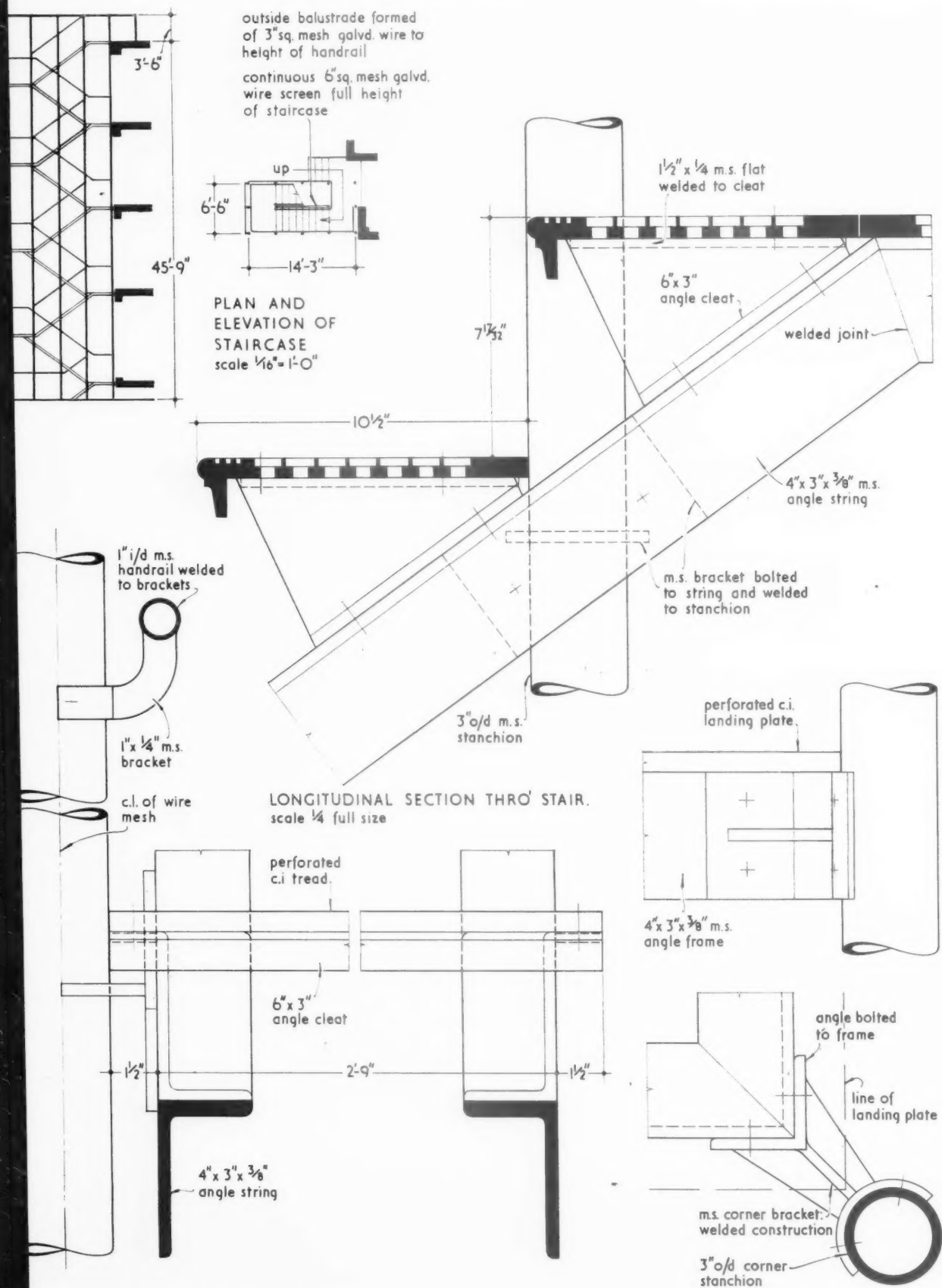
The staircase is enclosed in vertical members of tubular steel with wire mesh balustrading and parting screen.

WORKING DETAIL

STAIRCASES : 10

EXTERNAL ESCAPE STAIRCASE : OFFICES IN LONDON, S.W.1

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



CROSS SECTION THRO' STAIR. scale 1/4 full size

FIXING AT CORNER. scale 1/4 full size

WORKING DETAIL

FIREPLACE: HOUSE AT SAN RAFAEL, CALIFORNIA

Francis Joseph McCarthy, architect

HEATING: 3

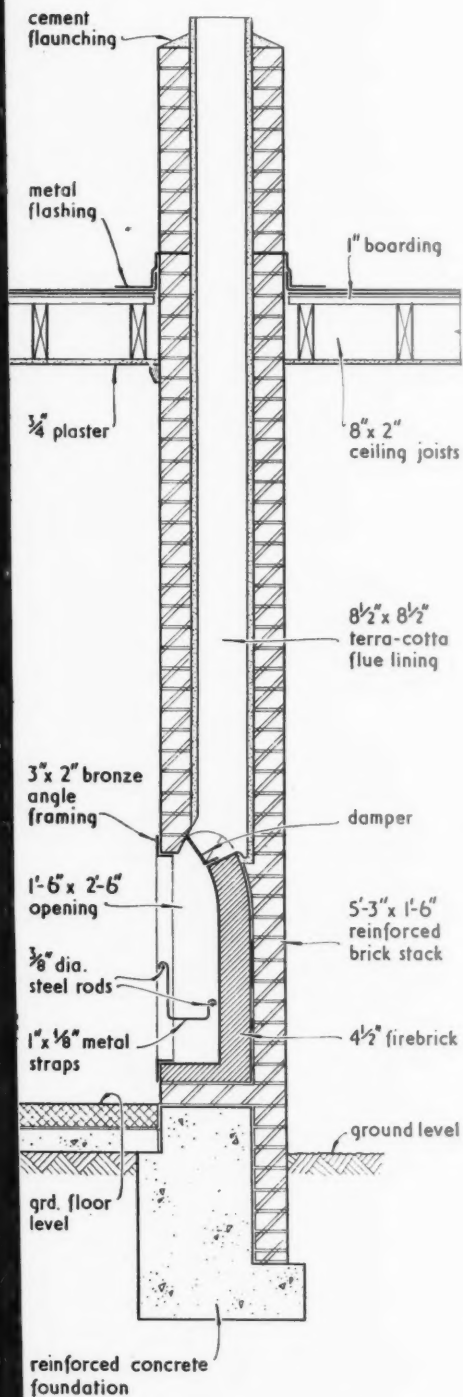


Photograph: Roger Sturtevant

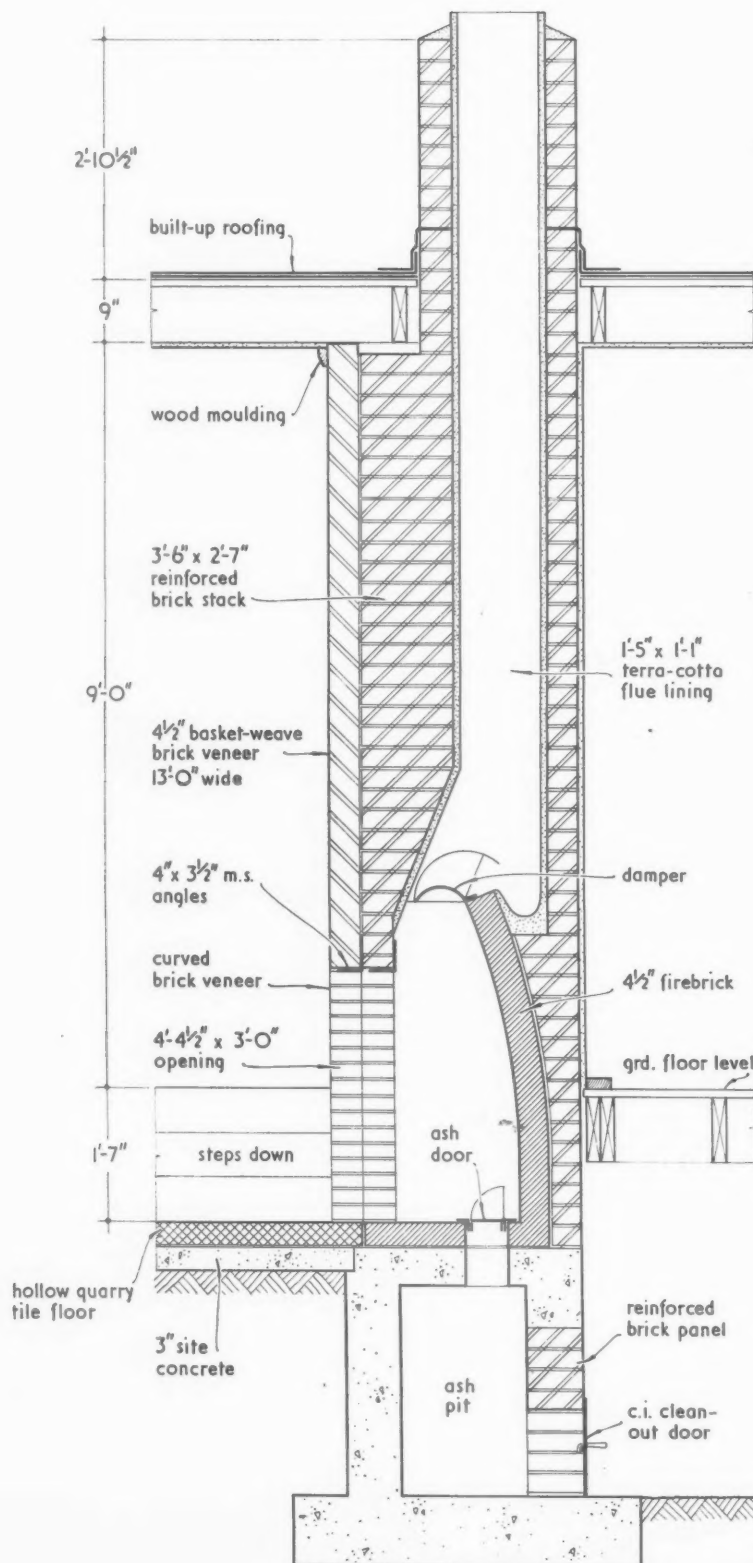
The wide brick fireplace which constitutes the end wall of the living-room has a sunken hearth with built-in lounge. The study fireplace may be glimpsed on the left of the photograph.

FIREPLACE : HOUSE AT SAN RAFAEL, CALIFORNIA

Francis Joseph McCarthy, architect



SECTION THRO' STUDY
FIREPLACE. scale $\frac{1}{2}'' = 1'-0''$



SECTION THRO' LIVING ROOM FIREPLACE.
scale $\frac{1}{2}'' = 1'-0''$

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PRIMARY SCHOOL

for the London County Council

in BENBOW STREET, DEPTFORD, LONDON S.E.14

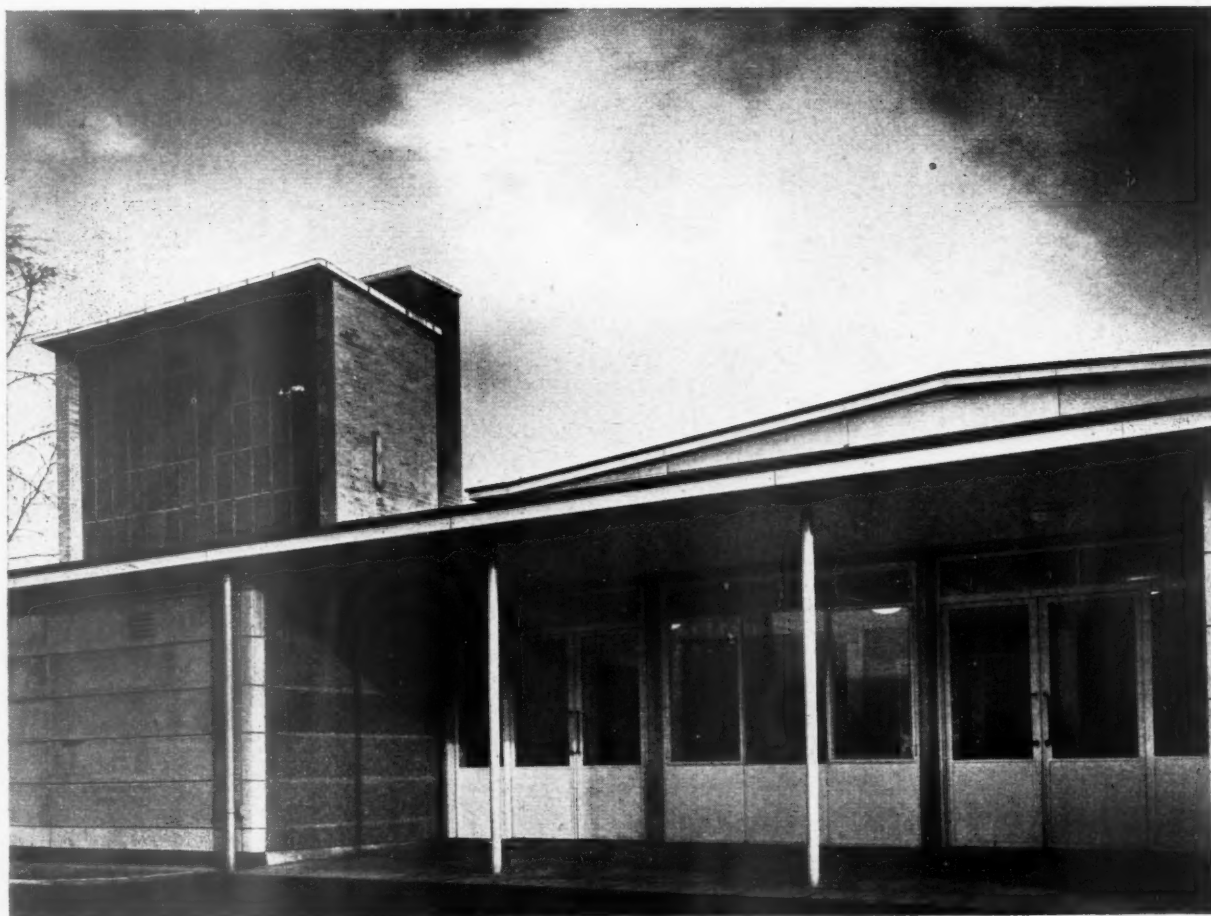
designed by R. H. MATTHEW, architect to the council

J. L. MARTIN, deputy architect to the Council, S. HOWARD, schools architect,

F. G. WEST, assistant schools architect, D. ROGERS STARK assistant architect-in-charge, A. STRUTT, assistant

The Hughes Fields primary school accommodates 200 infants and provides dining facilities for 75 per cent. of the pupils in the assembly hall. The site, which is longest on the north-south axis, is in a densely built-up district, contains the foundations of several earlier buildings and was the locale of a previous school bombed during the war.

Looking north-east at the main entrance.





PLAN.—A south aspect for classrooms was considered an over-riding factor and the restricted width of the site influenced the siting of the assembly hall and main entrance. The staggering of classrooms and adjacent cloakrooms was chosen to give a more intimate scale to the building.

CONSTRUCTION.—There is a light, welded, galvanised steel frame with walls of precast concrete. Slabs have white spar or grey granite chippings on the outer face and the inner skin is of molar blocks. The boiler house and tank tower are constructed in brick and roofs are of precast concrete.

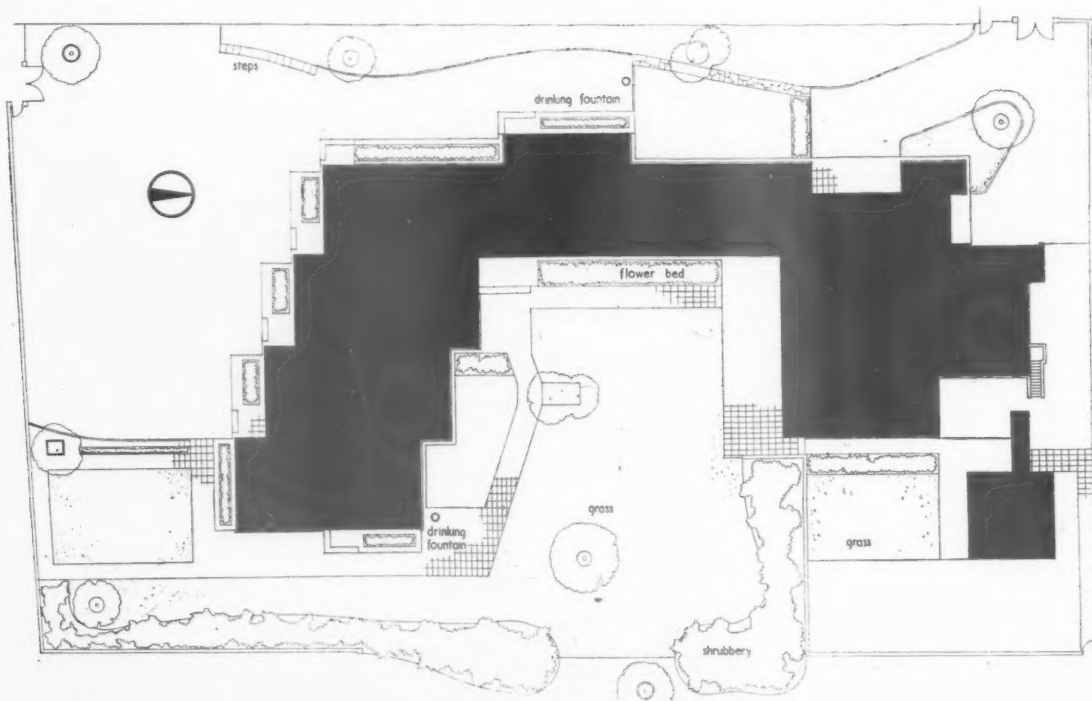
FINISHES.—White spar units with horizontal joints and grey granite units are used for contrast at the entrance and in a panel on the tank tower. Uxbridge flint bricks in two colours are used on the tower and chimney stack. The roof is finished with felt and gravel. Floor finishes are terrazzo in the entrance hall, thermo-plastic tiles in cloakrooms, corridors and staff rooms, composition blocks in classrooms and assembly hall, woodex-latex in the kitchen, quarry tiles in lavatories and granolithic

Part of the classroom wing looking east.

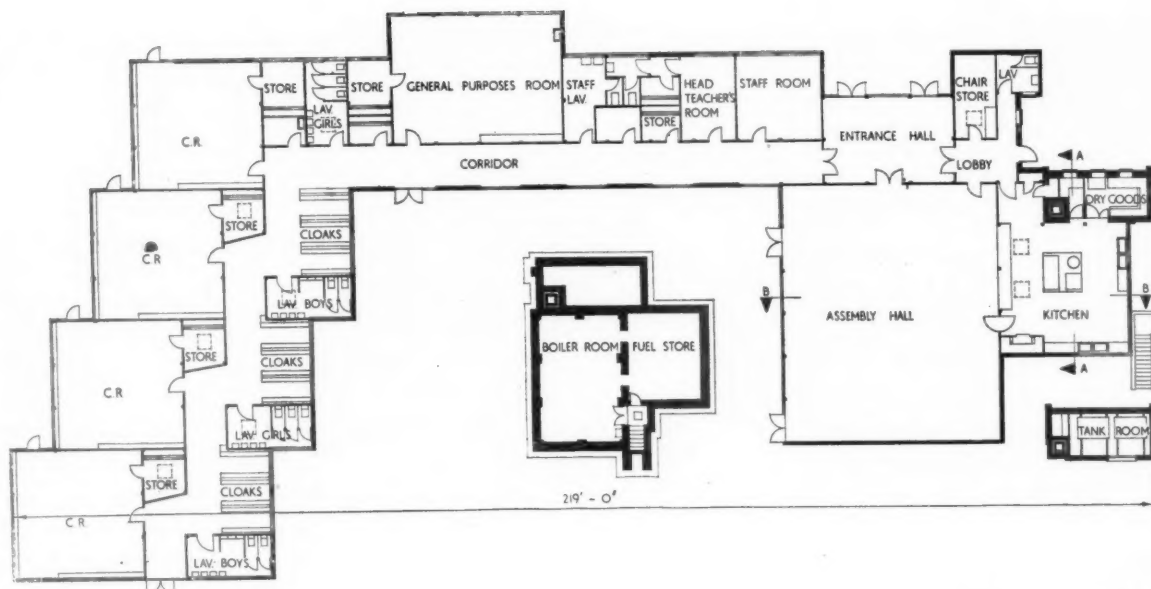
PRIMARY SCHOOL

in BENBOW STREET, LONDON S.E.14

designed by R. H. MATTHEW, architect to the LCC



Site plan

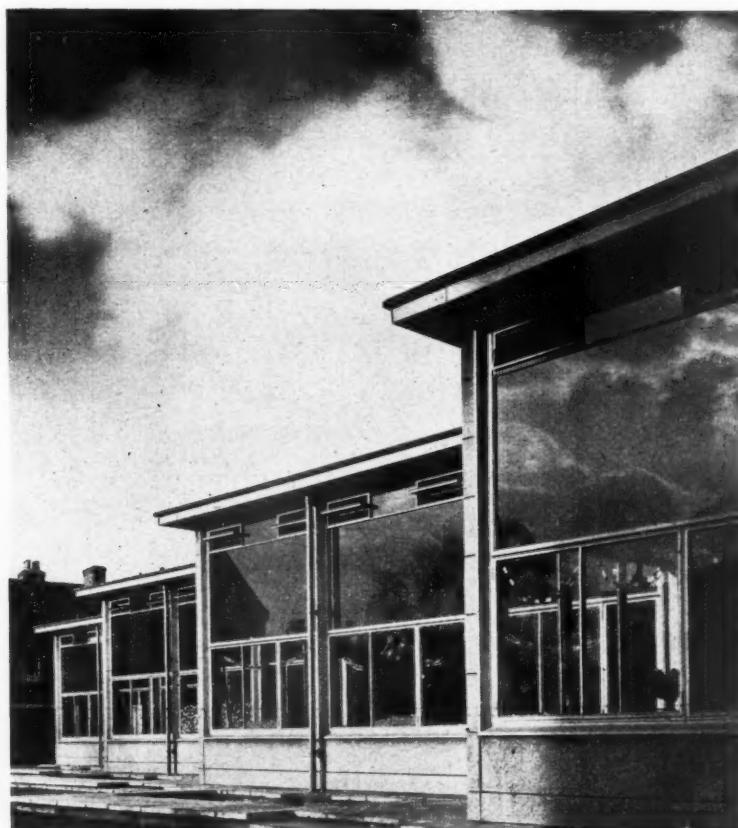
Plan [Scale: $\frac{1}{4}" = 1'0"$]

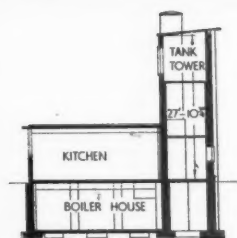
in stores. Walls are plastered and painted or distempered in bright colours in circulation spaces and subdued colours (mostly white) in classrooms. A patterned wallpaper is used on the stage wall of the assembly hall. Fibreboard ceilings are distempered throughout.

SERVICES.—Floor heating and auxiliary convector heaters are installed in classrooms and the assembly

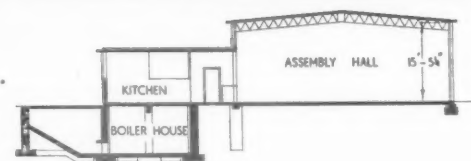


Above, servery in the north wall of the assembly hall. Below, the general purposes room. Right, the infants' classrooms looking north-west.





Section A-A



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

hall and there are radiators elsewhere; all are controlled by thermostat. The main run of services from the boiler house are contained in a duct under corridors.

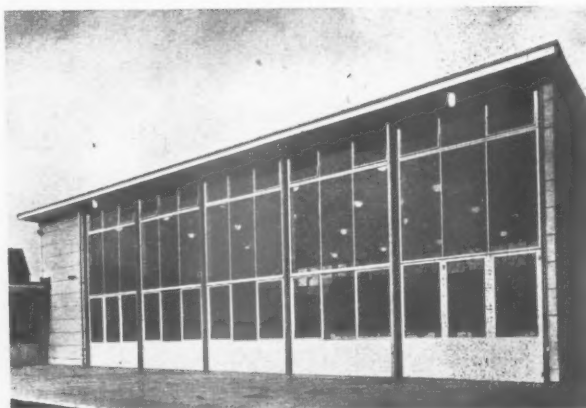
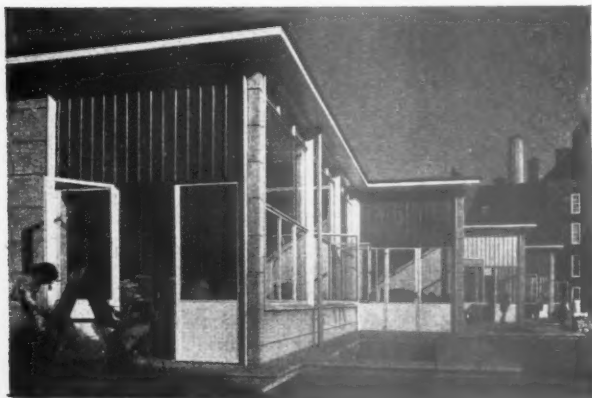
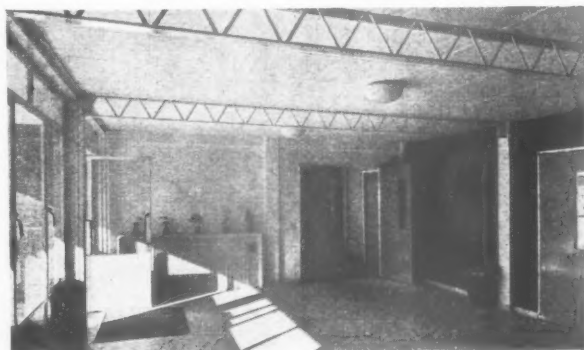
The general contractors were Thomas & Edge, Ltd. For sub-contractors see page 230.

PRIMARY SCHOOL

in BENBOW STREET, LONDON,
S.E.14

designed by R. H. MATTHEW,
architect to the LCC

Above, the assembly hall, showing the portable stage. Right, the entrance hall. The door to the assembly hall is seen extreme right. Below left, classroom wing looking east. Below right, the south facade of the assembly hall.



TECHNICAL SECTION

The latest cuts in capital expenditure (commented on by the Editors of the JOURNAL on page 175 of last week's issue) emphasize once more the need for architects to design their building economically. Industrial buildings, in particular, are, to quote the Chancellor of the Exchequer, "generally large users of steel." This need not be so. In the book on the design of factories reviewed below, the author—Edward D. Mills—describes a number of structural methods which are relatively economical in steel and other scarce materials.

On February 28, a meeting is being held at ICE at which will be discussed the relative economics of prestressed concrete, reinforced concrete and steel. This meeting will be reported on in the JOURNAL next month. And no doubt Specialist Editor No. 13 (Structural Engineering) will have a good deal to say on the subject when he discusses in the JOURNAL the talks Felix Samuely gave at the ICE and the RIBA recently on recent developments in structural techniques.

R. FITZMAURICE

This week's
special feature

10 DESIGN: BUILDING TYPES factories

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.

This week the Technical Section is devoted to Industrial Buildings. For a survey of the subject, the reader could not do better than consult Edward D. Mills's new book "The Modern Factory," reviewed below. This is followed by some data on industrial exhaust ventilation and a description and illustrations of the new cement works at Shoreham, where an extensive exhaust system has been installed.*

This book by a practising architect assists both architects and industrialists in solving the many and varied problems connected with the design of buildings for industrial use. It is in two sections: a long text and a group of plates. The ten main chapters deal with the most important considerations in factory design, commencing with an analysis of some of the major considerations to be borne in mind when selecting a site for industrial development. Chapter 2 is devoted to the Factory Estate; it states the case for centralized industrial estates and con-

siders their relationship to both the town and the individual factory unit.

One of the most important stages in the preparation of plans for any new development is the exchange of information between the client and the architect; this is dealt with in detail by a series of information check lists (one of these is reproduced on page 222) and an analysis of the factors which influence the layout of a factory such as: drainage, services, transport facilities, and road layout.

Chapters 4 and 5 deal respectively with the design of manufacturing buildings and with the factors influencing

* The Architectural Press, London, 1951. 30s.



Aerial view of the Brabazon Assembly Hall, Filton, and ancillary buildings.

the choice of structural technique to be used, with diagrams illustrating the relationship of the design of a factory building to the manufacturing process

flow within the building. It is outside the book's scope to deal in detail with structural technique for contemporary buildings; but the major structural alternatives are considered and their advantages and disadvantages for particular purposes briefly discussed. Other technical matters, such as artificial and natural lighting, heating, ventilation, colour, thermal insulation and noise, are similarly considered—with particular emphasis on lighting. Specially prepared diagrams showing daylight factors obtained with nine different forms of roof lighting are included: in each case the daylight factors have been specially calculated with the Building Research Station daylight factor protractors. In view of the value of the tables of recommended values for artificial illumination for various processes, compiled by the Illuminating Engineers' Society and the Lighting Service Bureau, these tables have been included in full with the permission of the bodies concerned. The section on thermal insulation includes useful tables comparing various types

of insulation in relation to heating and fuel costs.

The last four main chapters of the book give detailed consideration to the non-manufacturing parts of an industrial unit; warehouse accommodation, administration buildings, industrial laboratories, and welfare buildings. The last category covers canteens, first aid accommodation, lavatories and cloakrooms. The type of building suitable for each of these purposes, the accommodation requirements and the essential services are scheduled and discussed, and their relationship to the rest of the factory is considered. The final chapter makes a plea for the landscaping, and careful siting, of any new industrial project.

The first section is fully illustrated with line drawings and diagrams; wherever possible useful information is presented in tabular form for easy reference; and where particular types of accommodation are discussed working check lists are provided to assist the proper briefing of architects, and to avoid "after thoughts."

INFORMATION CHECK LIST

(1) Manufacturing Space

- (a) Description of operations or processes to be carried out.
- (b) Approximate floor area required; separate or combined buildings.
- (c) Details of types of plant to be housed; service and drainage requirements.
- (d) Details of special sections, finishing shops, special conditions, possible hazards.
- (e) Accommodation required for foremen, overseers, etc.
- (f) Approximate number of operatives.

(2) Warehouse Space

- (a) Approximate floor area required for raw materials—method of delivery.
- (b) Details of materials and types of storage required, *i.e.* bulk storage, etc., tanks for liquids, etc.
- (c) Approximate floor area required for finished materials—method of despatch.
- (d) Details of materials and types of storage required, *i.e.* bins, racks, shelves, etc.
- (e) Possible fire hazards, special storage conditions.
- (f) Office accommodation required in connection with warehouse.
- (g) Approximate number of staff in warehouse.

(3) Packing and Despatch

- (a) Approximate floor area required.
- (b) Details of special filling and packing rooms, machines, etc.
- (c) Details of special conditions, *i.e.* temperatures, air-conditioning, dust-extraction, etc.
- (d) Methods of despatch, *i.e.* postal, van collection, rail collection.
- (e) Approximate number of staff to be employed.

(4) Laboratories

- (a) Class of laboratories required, *i.e.* research, works control, analytical control, technical development, etc.
- (b) Type of work carried out in various laboratories, *i.e.* biological, chemical, bacteriological, etc.
- (c) Approximate floor areas required for various laboratory units.
- (d) Details of any special work, *i.e.* micro-analytical work, photographic work, etc.
- (e) Approximate number of chemists and assistants to be employed.

(5) Offices

- (a) Approximate area of office.
- (b) Allocation of office space, *i.e.* directors' offices, accounts, sales, publicity, library, buying, works offices, general offices, etc.
- (c) Special requirements, *i.e.* mechanical accounting systems, etc.
- (d) Approximate number of office staff.

(6) Maintenance and General Building Requirements

- (a) Details of maintenance work to be carried out, *i.e.* plant erection, plant maintenance, building maintenance.
- (b) Workshops required, *i.e.* engineers, electricians, etc.

- (c) Details of garage space for works vehicles, *i.e.* number and type of delivery vans, works transport vehicles, fire-engines, ambulances, etc.
- (d) Stores required for maintenance materials, *i.e.* engineering and building materials.
- (e) Special storage facilities for bulk storage, *i.e.* petrol, acids, solvents, etc.
- (f) Approximate number of maintenance staff to be employed.

(7) Service Requirements

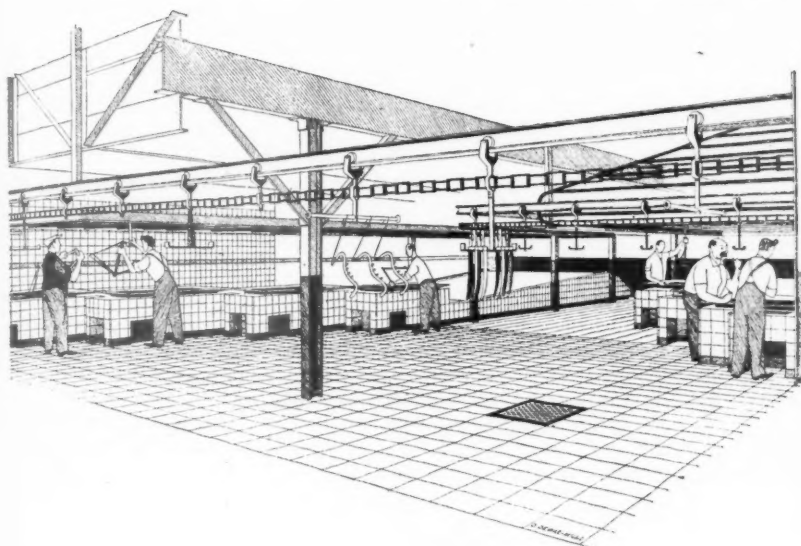
- (a) Details of services required for general use, *i.e.* gas, water, steam, electricity, etc.
- (b) Details of drainage requirements, *i.e.* trade effluent, special features, acid or alkali effluent, etc.
- (c) Details of local services required, *i.e.* compressed air, vacuum, distilled water, hot water, etc.
- (d) Approximate daily consumption of gas, water, steam, electricity, etc.
- (e) Approximate daily trade effluent output.
- (f) Details of fire precautions required for buildings, *i.e.* sprinklers, hydrants, etc.

(8) Welfare Facilities

- (a) Approximate total population of factory.
- (b) Details of special washing facilities, *i.e.* showers, baths, foot-baths, etc.
- (c) Details of clothes worn by operatives, *e.g.* Are overalls or protective clothing compulsory?
- (d) Number of workers (male and female) requiring locker and lavatory accommodation.
- (e) Office accommodation required for welfare and personnel department.
- (f) Type of canteen facilities to be provided.
- (g) Type of canteen service.
- (h) Details of type of meals to be served, *i.e.* morning and afternoon breaks, lunches, shift workers' meals, etc.
- (i) Number of meals to be served daily in canteen, *i.e.* snacks, full meals, drinks, etc.
- (j) Details of recreation facilities, *i.e.* games room, stage, rest rooms, sports field, etc.
- (k) Details of medical service, *i.e.* first aid post, full medical treatment centre, examination rooms, etc.
- (l) Accommodation required for staff vehicles, *i.e.* cycles, motor-cars, etc.

(9) General

- (a) Any special requirements appertaining to the work to be carried out in the factory.
- (b) Details of possible future extension of any sections of the factory.
- (c) Details of any special features which are of particular importance in connection with the proposed buildings or site.



The second section consists of over forty pages of photographs and plans of specially selected industrial buildings that have been recently completed. These examples, which illustrate the main points made in the preceding section, have been drawn from half-a-dozen countries, and include manufacturing buildings, laboratories, canteens, offices, warehouses and welfare

buildings. Each building illustrated is not only efficient but also an outstanding example of contemporary architecture. The buildings range from the vast Aircraft Assembly Buildings at Filton, built for the Brabazon aircraft, to a small two-storey chemical factory in Chiasso, Switzerland. And some of the photographs illustrate the value of carefully considered landscaping and



Left, overhead power chain conveyor (drawing reproduced by kind permission of Carter and Co. (London) Ltd). Above, spiral staircase at the City of Stockholm Bacteriological Laboratories.

planting in relation to modern industrial buildings.

The appendix contains useful definitions of technical terms used in the text; and is followed by a comprehensive, up-to-date, bibliography.

23 HEATING AND VENTILATION industrial exhaust ventilation

A paper on industrial exhaust ventilation which A. C. Mann gave to the IHVE was reviewed in the Information Centre on January 24, 1952. Architects engaged on the design of industrial buildings may find useful the following additional information from Mr. Mann's paper.

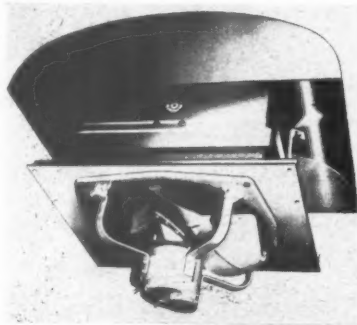


Fig. 1. Roof extract unit with axial-flow fan.

The velocities at which materials should be conveyed in ducting systems can be calculated, but a rough guide is given in Table I. Permissible concentrations depend on whether substances are poisonous, dangerous to health, or merely objectionable. The American Conference of Government Industrial Hygienists has adopted a range of maximum allowable concentrations; these are given in Table II.

TABLE I

Material to be Exhausted	Velocity
Gases, fumes, wood, flour and sander dust	1,500-2,000 f.p.m.
Light sawdust, shavings, bakelite powder dust	2,000-3,000 f.p.m.
Dry buffing lint, cotton	2,500-3,000 f.p.m.
Heavy sawdust and shavings, grinding dust, sticky buffing lint, wool	3,000-4,000 f.p.m.
Wood blocks, foundry dust, sand blast dust	3,500-4,500 f.p.m.
Metal turnings, lead dust	4,000-5,000 f.p.m.

TABLE II

Material	Max. Allowable Concentration
Mineral dusts—	(Particles per cu. ft.)
Asbestos ..	5 million
Silica ..	50 million
Portland cement ..	(Milligrams per cu. metre)
Toxic dusts—	0.15
Lead ..	15
Iron oxide fumes	0.1
Zinc oxide fumes	
Mercury ..	
Gases and vapours—	(Parts per million)
Phosgene ..	1.0
Carbon-dioxide ..	5,000

Ducting must be capable of handling air at higher velocities and pressures than are met with in ordinary ventilation systems. It should be two or more gauges heavier than would be used for these systems. Galvanized or black sheet-steel is usually used, but if acids are involved other materials should be used (see Table III).

Special consideration should be given to access, cleaning and explosion

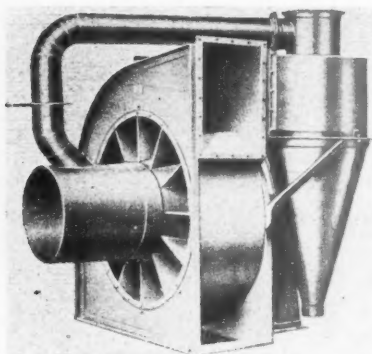


Fig. 2. Dust extraction unit with centrifugal fan.

doors. The access doors should themselves be accessible. They should not be arranged so that when the ducts are erected they are against walls, columns, electric conduits or pipes carrying steam.

Radial-bladed, centrifugal fans (see Fig. 2) are usually used. They are strong, easily cleaned, and can work against high pressures. When dealing with wood waste the casing should be up to $\frac{1}{8}$ in. thick, and a gravity trap fitted on the inlet side of the fan to catch large bodies. If fibrous materials are involved, they must be cut into small pieces, either by means of a cutter or by having a fan with blades of the guillotine type which cut the material on entry.

For fumes and light dusts in not too heavy concentrations and for low re-

sistances, axial flow fans (see Fig. 1) can be used. These are usually hung from the roof, and care should be taken that fixing bolts cannot become loosened.

For large particles gravity separators may be used, in conjunction with fabric filters for small particles, but these are bulky and costly. Cyclones are available in a variety of shapes and sizes and can serve a number of different purposes. An interesting possibility is the use of groups of small cyclones for small particles. Cloth filters may be used for fine dusts; they should be easy to get at for cleaning, and a proper store should be provided for collecting at least a week's production of dust. For the smallest particles and for fumes, scrubbers and electrostatic precipitators can be used.

TABLE III

Acids to be Exhausted	Material for Ducting
Concentrated acetic and nitric	Aluminium
Chromic, dilute sulphuric and sulphurous	
Hydro-fluoric and sulphuric	Lead-covered steel
Other acids, including acetic, chromic, nitric, sulphurous, sulphuric, hydrochloric and phosphoric	Monel metal
Most acids	Stainless steel
Dilute acids	Asbestos cement
	Plastic covered ducting

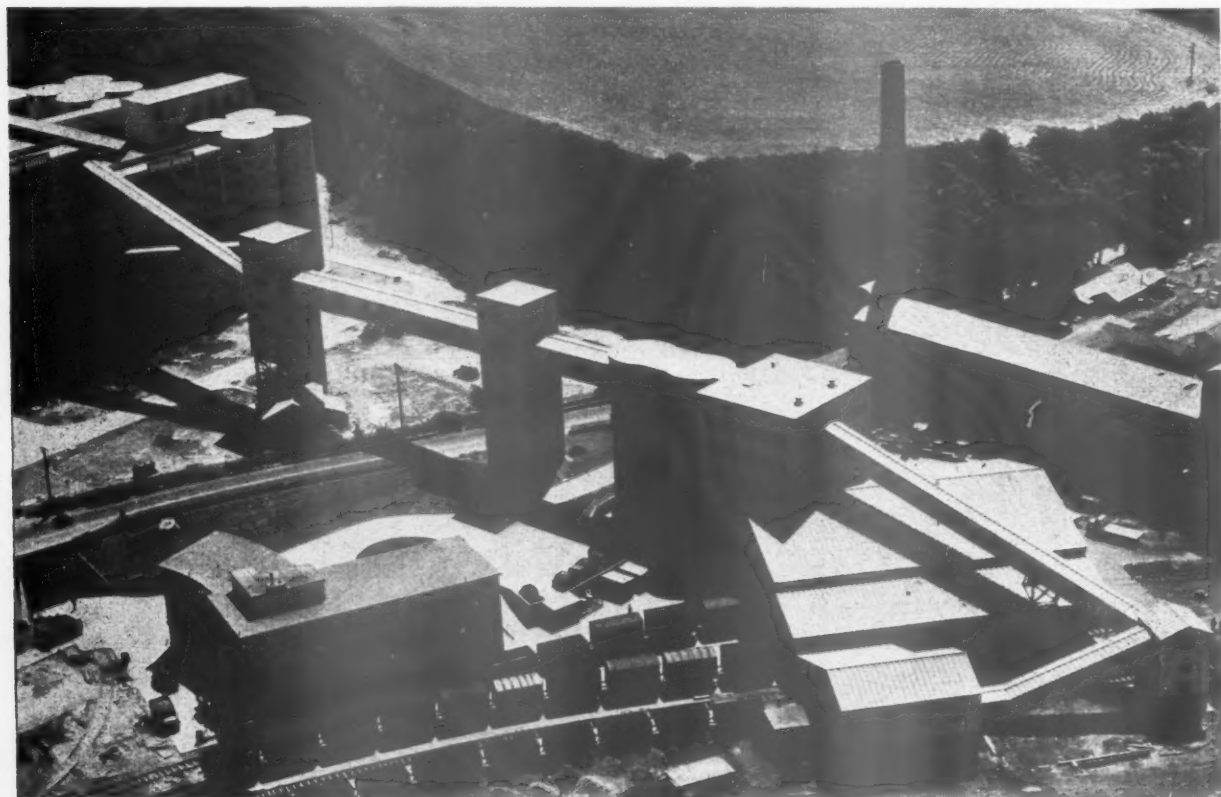
Provision must be made for the replacement of the air extracted. A dust extraction system may cause between 6 and 60 air changes per hour, i.e., many more than is caused by natural or ordinary extract ventilation. If this air is replaced only through accidental openings, bad draughts will arise. Proper ventilators must, therefore, be provided; preferably through unit heaters, or by means of a plenum system.

The three tables given above are reproduced, by permission, from the July, 1951, issue of the *Journal of the Institution of Heating and Ventilating Engineers*; Fig. 1, by permission of Brooks Air & Heat Systems Ltd.; Fig. 2, by permission of Air Control Installations, Ltd.

RECENT INFORMATION CENTRE ITEMS ON INDUSTRIAL BUILDINGS

13.12.51:19.136	Precast concrete roof trusses.
6.12.51:20.206	Reinforced concrete garage at Lyons.
8.11.51:17.80	Recent British welded structures.
8.11.51:19.135	Reinforced concrete industrial chimney.
25.10.51:19.132	Distributing heavy loads.
25.10.51:23.151	Fuel storage.
11.10.51:21.39	Freight handling.
11.10.51:24.152	Standby power plants.

Aerial view of new cement works at Shoreham, Sussex, described on pages 225 to 227, where an extensive exhaust ventilation system is used to eliminate the presence of cement dust.



FLATS • POWER STATIONS • HOSPITALS • LABORATORIES • SPORTS STADIA • THEATRES • CINEMAS • FACTORIES • SCHOOLS



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NEW CEMENT WORKS AT SHOREHAM, SUSSEX



A new works has been built near Shoreham, Sussex, for the British Portland Cement Manufacturers, Ltd. With a capacity of 350,000 tons per year, it replaces a small works which has been in operation on the same site for 50 years. As can be seen in the photographs above and on page 224, most of the new works has been built in the quarry of the old, so that the view of the surrounding countryside is interrupted as little as possible. The photograph below is of the two 350-ft. long cylindrical kilns. These are rotary kilns with a diameter of 10 ft. at the barrel and 11 ft. 6 in. at the burning zone.



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. Headings below.

10.92 design: building types

FACTORIES

The Modern Factory. Edward D. Mills. (Architectural Press, 1951. 30s.)

Comprehensive textbook on the design of industrial buildings. Reviewed in detail in *Architects' Journal*, February 14, 1952. 192 pages, 42 pages of plates.

13.82 materials: timber

HARDWOODS

Hardwoods for Building and General Purposes. Forest Products Research Laboratory. (HMSO, 1951. 1s. 3d.)

Useful classified list, giving indication of properties of many lesser-known hardwoods which may be available.

Although most architects are aware of the fact that many new types of hardwood and "semi-hardwood" have been introduced in recent years, they, no doubt, find it difficult to keep track of the many different varieties and their exotic names. This publication is most useful. It gives some general information, including notes on seasoning, insect attack and a defect known as brittleheart, followed by a valuable classified list of timbers. In this, alternative names are noted and weights are given and there is also an assessment of resistance to decay, together with notes on characteristics and uses. The classified list is divided into three sections: Light hardwoods, medium hardwoods and heavy hardwoods; the medium group being comparable to oak, beech and teak, while the heavy hardwoods are suitable for special purposes.

15.94 materials: applied finishes and treatments

PLASTERING

Plastering on Plasterboard and Insulating Fibre Building Board. MOW Advisory Leaflet No. 21. (HMSO, 1951. 3d.)

This summary of plastering on building boards is brief and to the point.

This is an excellent summary, written in clear and simple terms. Materials to use

1 Sociology. 2 Planning: General. 3 Planning: Regional and National. 4 Planning: Urban and Rural. 5 Planning: Public Utilities. 6 Planning: Social and Recreational. 7 Practice. 8 Surveying, Specification. 9 Design: General. 10 Design: Building Types. 11 Materials: General. 12 Materials: Metal. 13 Materials: Timber. 14 Materials: Concrete. 15 Materials: Applied Finishes, Treatments. 16 Materials: Miscellaneous. 17 Construction: General. 18 Construction: Theory. 19 Construction: Details. 20 Construction: Complete Structures. 21 Construction: Miscellaneous. 22 Sound Insulation-Acoustics. 23 Heating, Ventilation. 24 Lighting. 25 Water Supply, Sanitation. 26 Services Equipment: Miscellaneous. 27 Furniture, Fittings. 28 Miscellaneous.



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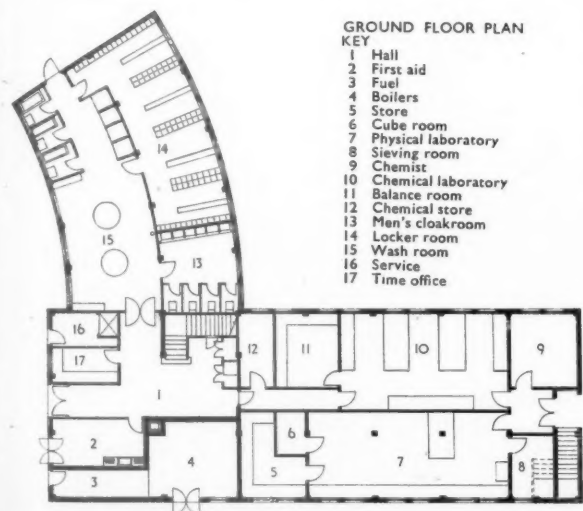
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NEW CEMENT WORKS AT SHOREHAM (continued)



mainly by means of conveyor belts. Apart from two elevators in the packing plants, vertical handling is by means of inclined conveyors. There are twelve cement storage

Special dust extraction plant has been used wherever possible, the total cost of this plant being approximately £130,000. Electrostatic precipitators, operated by induced-draught fans, deal with dust in the exhaust gases, and every transfer point on the conveyor systems for coal, clinker and cement has been connected to the dust-collecting equipment.

The photograph above is of the three-storey office block, constructed of reinforced concrete. On the left are the ground and first-floor plans. On the second floor are more offices, and on the top floor, a canteen, kitchen and dining rooms. Materials handling is

are precisely specified, the treatment of joints is described and the preparation of the mix and its application is explained concisely. A point worth noting is a recommendation that joints between ceiling and wall must either be reinforced or a clear break made by cutting through with a thin knife.

Although intended for the "man on the job," this leaflet is well worth a place in any architect's files.

16.80 materials: miscellaneous

THERMAL INSULATION

Thermal Insulating Materials for Buildings. BS 1785:1951. (British Standards Institution. 2s. 6d.)

Brief characteristics, including weight and conductivity. Methods of test.

17.83 construction: general

CONCRETE TESTING

Apparatus for Testing the Hardness of Concrete. (Concrete and Constructional Eng. Nov. 1951., p. 350.)

Apparatus for checking quality of hardened concrete. Interesting to architects, engineers and builders.

This apparatus, developed in Switzerland, consists of a steel tube in which is fitted a spring capable of projecting a small steel hammer against the concrete under test. The hammer rebounds and is brought to rest by the resistance of the spring, its position after the rebound being indicated by a gauge and pointer on the tube. The height of rebound is considered to be a measure of the hardness, although, by comparison with cube tests, it is not entirely accurate.

It is, however, suitable for day-to-day use in obtaining comparative values for samples which have already been proved acceptable by cube tests. Unlike steel, concrete gives different results at each point due to variations in the size of the aggregate, the strength of the mortar and the strength of the aggregate. It is necessary, therefore, to take the mean of about 10 readings over, say, a 6-in. square.

18.94 construction: theory

PLASTIC THEORY

The Application of the Plastic Theory to the Design of Mild Steel Beams and Rigid Frames. F. A. Partridge. (British Constructional Steelwork Association. Publication No. 3. 1951.)

Easily-read explanation of plastic theory, of interest to architects.

The fact that this pamphlet of 12 pages and 34 diagrams has been written by a member of a well-known steelwork firm and published by BCSA may help to convert those members of the architectural and engineering professions who have previously dismissed plastic design as a whim of the theorist.

While the design methods illustrated for single-type loadings are relatively simple compared with elastic analysis, it should be noted that the procedure of adding the effects of dead load, live load, crane surge, wind, etc., used in the latter method, cannot be used in plastic design.

Two more publications by BCSA suggesting design methods to be applied to beams and single-storey, single-bay portals will be published shortly and the extension of the theory to the design of single-storey multi-bay frames is also to be considered in a later pamphlet.



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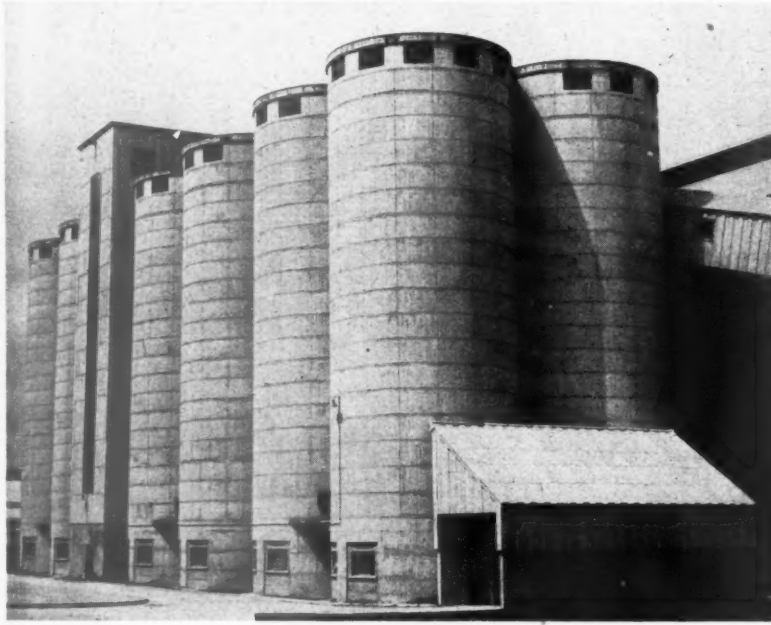
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NEW CEMENT WORKS AT SHOREHAM (continued)

silos, with a total capacity of 15,000 tons, and there is space for four more. They are constructed of reinforced concrete and, as can be seen in the photograph below, the construction joints have been emphasised to produce a neat pattern. The plant was designed by the engineering staff of the Associated Portland Cement Manufacturers, Ltd. Dr. Oscar Faber and Partners were consultants for the civil engineering work and G. A. Jellicoe was consulting architect and architect for the office block. Main contractors were John Laing and Son, Ltd.; sub-contractors: reinforced concrete, Bierrum & Partners, Ltd.; structural steelwork, J. L. Kier & Co., Ltd.

**18.95 construction: theory
STRUCTURAL DESIGN**

Structural Theory and Design.—Volume II. J. McHardy Young. (Crosby Lockwood & Son, Ltd. 1951. 25s.)

Volume I of this book was reviewed in Information Centre item 18.77:14.6.51. The second volume deals with more advanced problems relating to statically-determinate structures and is intended for the student or young engineer. It covers the degree and Institution examination syllabuses.

The 599 pages contain 8 chapters and 2 appendices and cover redundant framed structures, arches, portals and rigid frames, wind effects, soil mechanics and earth pressures, foundations, miscellaneous problems and structural connections. One appendix gives mechanical properties of timbers, the other relates to pile driving. Much information in a structural text book conforming to an examination curriculum must necessarily repeat the derivation of formulae as in previous works but the author's style and good publishing maintain the reader's interest.

It is impossible to cover completely, from the designer's point of view, all the subjects in the book. Prestressed concrete is of sufficient importance to merit a description of the various methods of construction but, as in other chapters, the reader is referred to a variety of the works specializing in the subject. Many numerical examples are based

on examination questions and the author has stressed the necessity for interpreting the theoretical requirements to suit the practical design problems.

**19.139 construction: details
ASBESTOS ROOFING**

Asbestos-Cement Sheet Roof Coverings. BS C of P 143.201 (1951). (British Standards Institution. 3s. 6d.)

Material and its durability, other properties. Purlin spacing. Fixing methods.

This is a useful general guide, though manufacturers can usually provide larger and more varied diagrams of fixings, etc. Included are some notes on durability, thermal insulation, fire hazard, condensation and the need for expansion joints on large roofs. It seems unnecessary to include directions for calculating gutter and rain-water pipe sizes in a code of this kind as that is general information not related solely to asbestos-cement roofing. The need for proper provision of walkways on asbestos-cement roofs is rightly mentioned. Thermal insulation is dealt with by giving a table of values for different treatments. Only one of the methods gives a U value of less than 0.27. One might have expected a code of good practice to include some ways of achieving better results than this at a time when heat conservation is of national as well as of economic importance to building owners.

**19.140 construction: details
FENCING**

Fencing. BS 1722. Parts 5, 6, 7, 8, and 9. (British Standards Institution. 1951. 3s. each part—published separately.)

If anyone is prepared to pay 3s. per time for five separate documents—with four more to come—all the information on different types of fencing is now available as British Standards. The price seems excessive and the filing of separate documents is a nuisance. This appears to be an extreme example of a system all too frequently adopted by BSI. Doubtless, there must be reasons but the result must cause annoyance to potential buyers. The five parts now issued are:

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23.C2 REFERENCE BACK

Readers are asked to note the following revision and to amend their copy of the Information Sheet in question: Face of Sheet—Amend the vertical door opening sizes of 6 ft. 5½ in. in the upper left hand and centre left hand details to 6 ft. 5⅝ in.

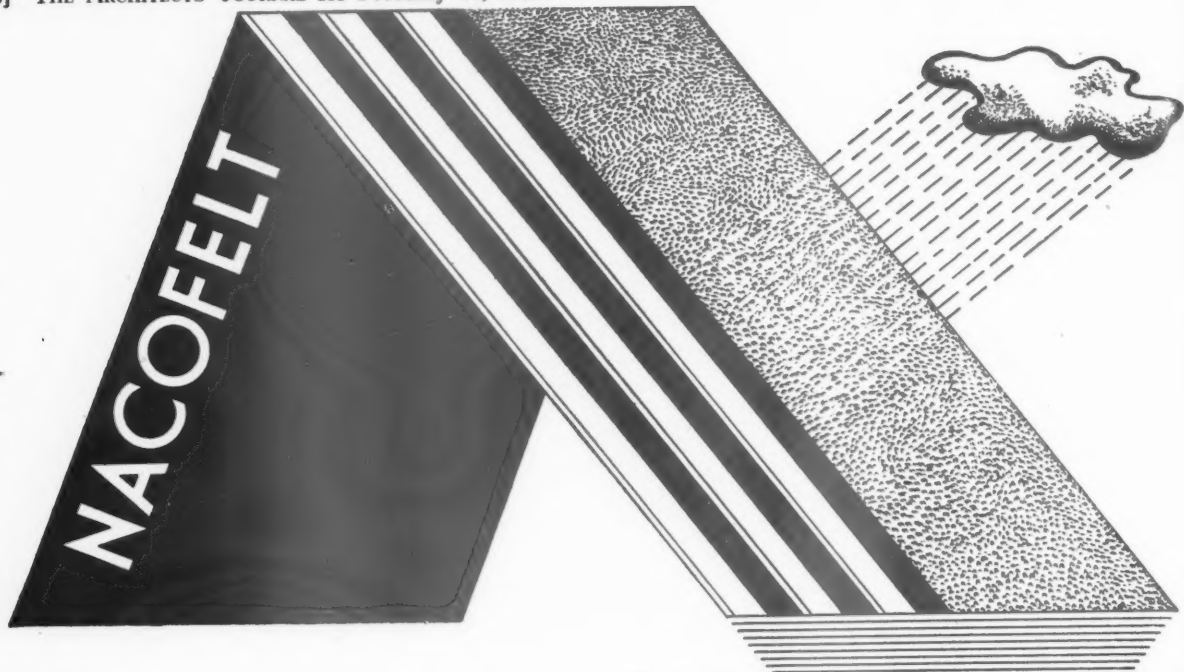
**INFORMATION CENTRE
INDEX FOR 1951**

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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THE INDUSTRY

From the industry this week Brian Grant reports on a new hand-drying machine, the use of "Alkathene" as an underlay for acid-resisting floors, the new GEC lighting fittings and two new paints.

INSTEAD OF TOWELS

Section 42 of the 1947 Factories Act deals with washing facilities and specifies, amongst other things, "clean towels or other suitable means of drying." Towels, apart from their cost, and the extra cost of replacing losses due to pilferage, have the disadvantage that they get dirty very quickly and have a distinct tendency to transmit skin complaints from man to man. This, of course, only applies to roller towels, but paper towels, or individual towels changed weekly, cost about 4d. per operative per week.

There is, therefore, something to be said for electric dryers which project a stream of heated air over the wet hands, and a type introduced recently by Bylock Electric Ltd. is available in a number of different models. Illustrated below is the pedestal type, obtainable either with a foot-controlled mercury switch, or with a hand-operated, time delay switch. Price is £25. Slightly more expensive is the movable-head type for use where face drying is needed, and there are also models for wall mounting at £19 17s. 6d. Consumption of current is 2 kW. for the heating element and a further 300 W. for the fan. This gives an output of 80 cu. ft. of air per minute at 200°F. There

is a cavity in the head of the machine for a block of solid disinfectant compounds. The time taken to dry the hands is 20 or 30 seconds. In the pedestal models the height of the nozzle from the floor is 3 ft. 9 in., but the wall models can, of course, be mounted at any height required. (Bylock Electric Ltd., Enfield, Middlesex.)

ACID-RESISTING FLOORS

Floors for chemical plants are always a problem for not only the floor, but the junction between floor and walls should be proof against chemicals. Monolithic construction is, therefore, desirable, but it is almost impossible to find a material which has the necessary resistance to chemicals and abrasion, and which, at the same time, does not crack. Acid-resisting bricks and tiles are, in themselves, satisfactory, but there are always likely to be cracks at the joints. A continuous lining of acid-resisting material beneath the floor finish is a satisfactory solution to the problem, the usual materials being lead or rubber, both of which are rather expensive. As an alternative ICI suggest thin "Alkathene" foil, which is tough and, at the same time, resistant to acids, alkalis and most inorganic solvents.

"Alkathene" is the ICI brand of polythene, and is produced in rolls 100 yards long and 46 in. wide, with a thickness of 0.01 in. The usual method is to lap the foil by an inch or two and seal the two layers together with a hot iron. The concrete sub-floor should be screeded with a smooth cement-sand mix and well brushed after setting to remove any sharp particles. A backing layer of acid-resisting cement is then laid on the foil, and the acid-resisting bricks or tiles set over this. Alternatively, the foil may be laid direct on the main floor, provided that the concrete is still green and a smooth aggregate has been used.

The foil can also be used to line ducts, sumps and tanks, the walls of which have to be acid-resisting. The price of the material is 10d. per sq. ft. (ICI Ltd., Gloucester House, 149, Park Lane, London, W.1.)

LIGHTING FITTINGS

The General Electric Co. has recently rearranged part of its Kingsway showroom to

display a new range of light fittings. The photograph below shows a few from this large range and, while it may occur to some readers that they have seen something like these designs before, the prices are reasonable. (The General Electric Co. Ltd., Magnet House, Kingsway, London, W.C.2.)

TWO NEW PAINTS

International Paints Ltd. are marketing an interesting new emulsion paint called Interlight, which should help architects to solve some old problems—painting new plaster, for example. It contains no natural drying oils and is, therefore, unaffected by alkalis. Consequently, it may be applied to new plaster without fear of saponification once it has reasonably dried out. Although it is thinned with water, Interlight is claimed to have oil-paint durability.

It may be applied to a wide variety of surfaces—wood, plaster, brick, stone, cement and asbestos sheeting—and to metal that has been previously painted. Once dry it is extremely weatherproof and may, consequently, be used out of doors. It may even be applied over creosote or other thin bituminous coats; they will not bleed-through it.

Before light alloys can be painted they must be etched, in order to give a key for the paint, and primed. International "S.E. Primer" etches the surface and forms the priming coat in one application. After this treatment the surface will be coated with an extremely adherent, corrosion-inhibitive film which provides an excellent key for the undercoats and finishing paints. (International Paints Ltd., Grosvenor Gardens House, Grosvenor Gardens, S.W.1.)

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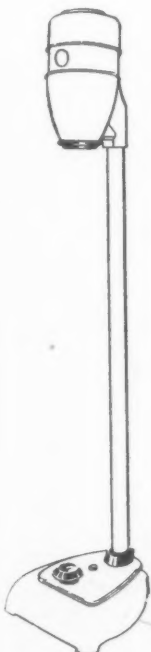
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Left, the Bylock hand dryer. Below, part of the new GEC range of lighting fittings in the Kingsway showroom.



Announcements

The Minister of Works has been in consultation with the cement industry on the question of the price of cement. The industry has indicated that the increased costs of coal, power, freights, and other items justified an increase in price. They told the Minister that they wanted to keep such an increase to a minimum and to establish a firm price for the coming year, which would not be raised unless there were further major increases in costs. The increase in price, which has already taken effect, has been fixed at 4s. 6d. a ton for ordinary and rapid hardening Portland cements sold in the home market. A further adjustment in prices in Northern Ireland to cover the cost of sea transport is under consideration. On the basis of the assurances given price control over these cements has been withdrawn.

At a recent meeting of the EJMA Council, with Mr. M. van Westerborg in the chair, three new members were elected:—Kingston (Architectural Craftsmen) Ltd., Minister Works, Clough Road, Hull, Yorks.; S. T. Good & Co., Oakley Road, Chinnor, Oxon; Builders' Supply Co. (Hayes) Ltd., Engineers' Wharf, Ruislip Road, Southall, Middlesex. Mr. William Arthur, the new chairman of the Scottish Joinery and Door Manufacturers' Association, was unanimously elected a member of the council to fill the casual vacancy created by the resignation of Mr. J. E. Forrest, on ceasing to be chairman of the Scottish Association. The appointment of committees and of representatives on other bodies, such as the BSI, TDA, BMP, etc., was dealt with and licences were granted to certain firms under the Association Certification Trade Mark. Among subjects discussed were measures to be taken to mitigate, if

possible, the shortage of steel, as affecting the joinery industry, the effect on selling prices of the pending increase in wages, the greater use of BS and EJMA Standards by local authorities and other matters concerning the trade.

Buildings Illustrated

Hughes Field Primary School at Benbow Street, Deptford, London, S.E.14 (Pages 217-220) for the London County Council. Architects: R. H. Matthew, A.R.I.B.A.; Architect to the Council: Dr. J. L. Martin, F.R.I.B.A.; Deputy architect to the Council: S. Howard, A.R.I.B.A.; Schools architect: F. G. West, A.R.I.B.A.; Assistant schools architect: D. Rogers Stark, A.R.I.B.A.; Assistant Architect-in-Charge. Assistant, A. Strutt; clerk of works, E. J. Stanton, later A. Royal; general foreman, J. Norman, later, R. Hunt. General contractors: Thomas & Edge Ltd. Sub-contractors: dampcourses, Tretol Ltd., "Excel" Asphalt Co. Ltd.; concrete blocks, Hill's (W. Bromwich) Ltd., Orlit Ltd. (schoolkeeper's house); reinforced concrete, in-situ, Thomas & Edge Ltd., pre-cast, Hill's (W. Bromwich) Ltd.; bricks, Oxshott Brick Works Ltd., Uxbridge Flint Brick Co.; artificial stone, W. C. Richardson; structural steel, window casements and furniture, Hill's (W. Bromwich) Ltd.; tiles Wiggins-Sankey Ltd., Marriot & Price Ltd.; roofing felt, "Excel" Asphalt Co. Ltd.; partitions, Refraction Ltd.; glass, Faulkner Greene & Co. Ltd.; patent flooring, Granwood Flooring Co. Ltd., "Accotile," Neuchatel Asphalt Co. Ltd.,

New Floor Installations Ltd.; waterproofing materials, Bitulac Ltd.; central heating, Norris Warming Co.; gas fixtures, Newton Chambers & Co. Ltd., Vulcan Ltd.; gas-fittings, South-Eastern Gas Board; boilers, Hartley & Sugden Ltd.; electric wiring, Electrical Contracting Co. Ltd.; electric light fixtures, Hume Atkins & Co. Ltd., Ascog Ltd., Troughton & Young Ltd., Hailwood & Ackroyd Ltd.; electric heating, H. Frost & Co. Ltd.; ventilation, Vent-Axia Ltd.; plumbing, Thomas & Edge Ltd.; sanitary fittings, Davis Bennet & Co., B. Finch & Co. Ltd. (schoolkeeper's house); door furniture, Comyn Ching & Co. Ltd., Hill's (W. Bromwich) Ltd.; rolling shutters, Denison Kett & Co. Ltd.; plaster, F. Bates & Son; metalwork, Light Steelwork Ltd., Audens Ltd., Haywards Ltd.; joinery, Thomas & Edge Ltd.; doors, John Sadd & Sons Ltd., Sharp Bros. & Knight (schoolkeeper's house); tiling, Wiggins & Sankey Ltd.; textiles, Gerald Holtom; wallpapers John Line & Sons Ltd.; furniture, Story & Co. Ltd.; tubular furniture, H. C. Shepherd & Co. Ltd.; cloakroom fittings, B. Finch & Co. Ltd.; clocks, Gent & Co. Ltd.; signs, W. H. Sharpington.

Shop at 70, East Street, Brighton, Sussex, for Austin Reed Ltd. (Pages 214-216.) Architects: Westwood, Sons & Harrison, F./F.R.I.B.A. General contractors: Bartley & Ward Ltd. Shopfitters: Harris & Sheldon Ltd. Sub-contractors: electrical wiring Austin Reed's house engineer; electric light fixtures, Veneco Ltd.; electric heating, Thermomvent Heaters by Ekco Ltd.; ironmongery, Yannedis & Co. Ltd.; sunblind, Artistic Blind Co. Ltd.; trouser fittings, Martin Balham & Co.; pneumatic cash system, Lamson Engineering Co. Ltd.; floor finishes, Korkoid Decorative Floors; carpets, Story & Co. Ltd.

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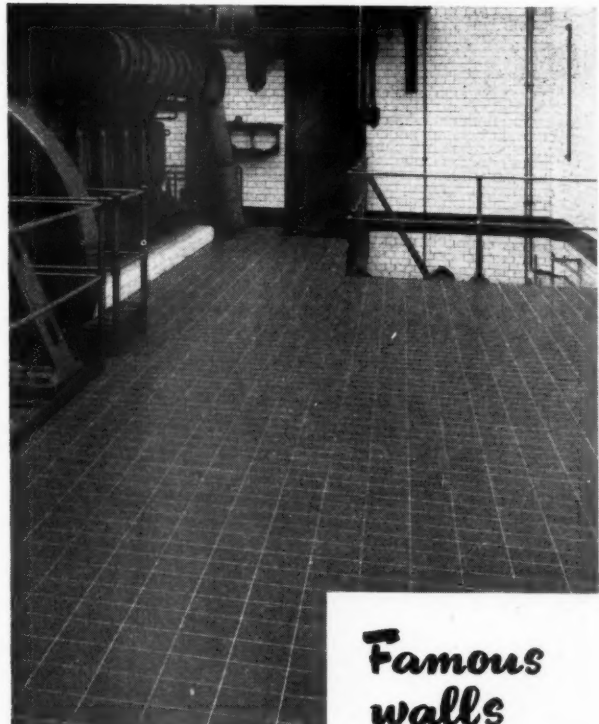
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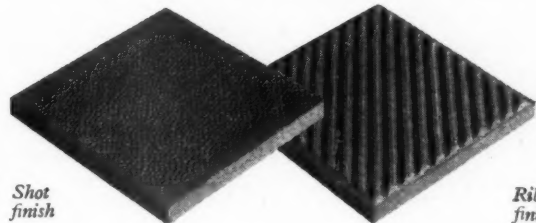
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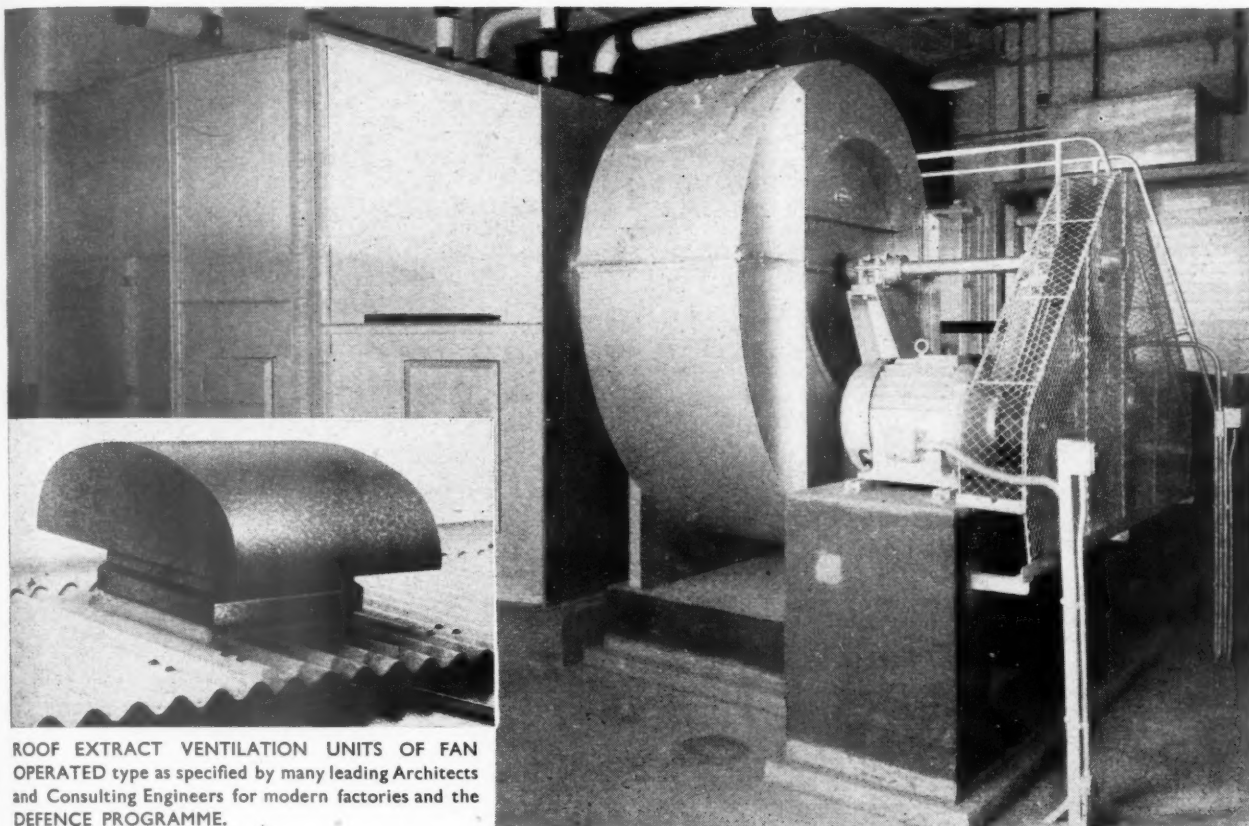
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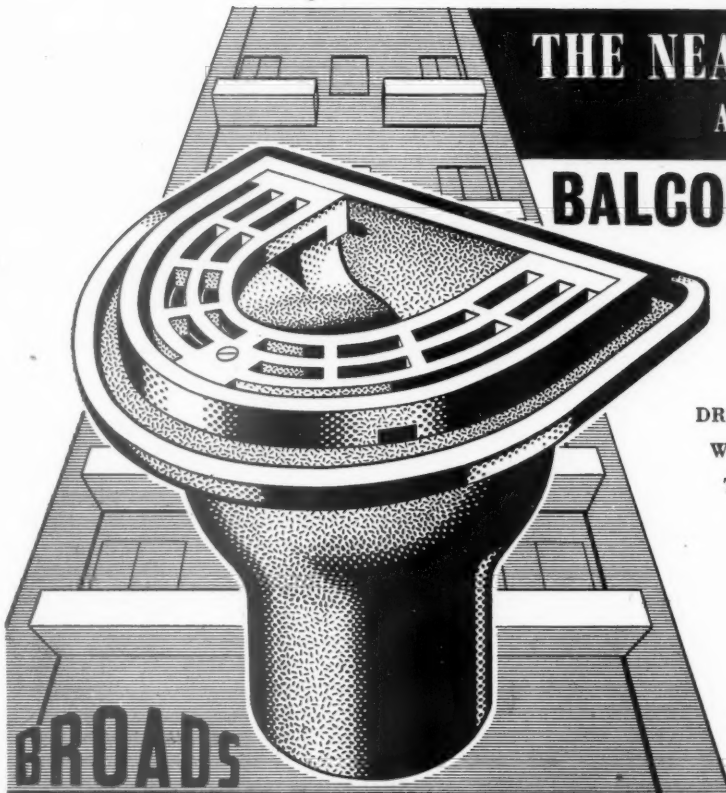
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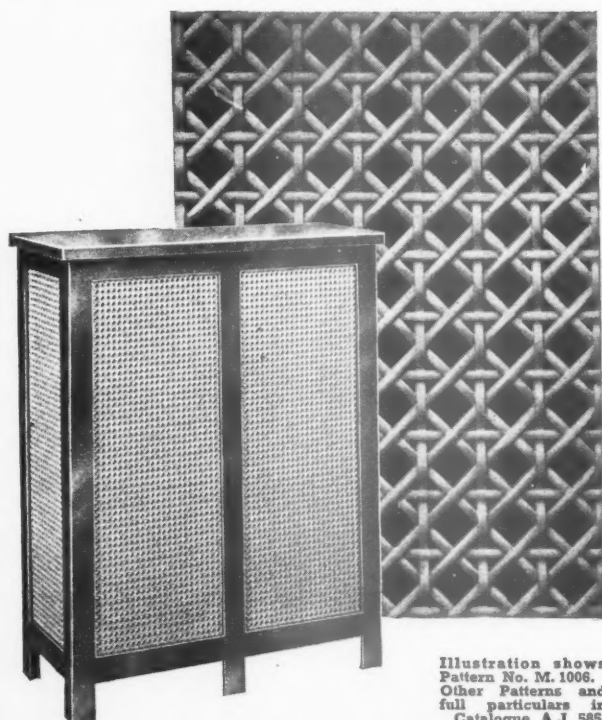


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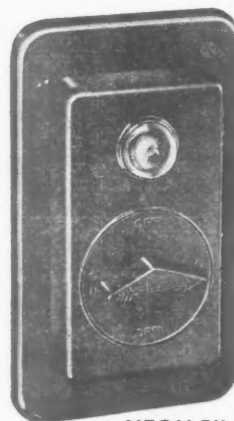


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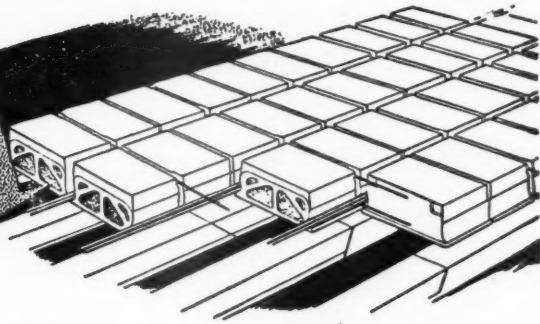
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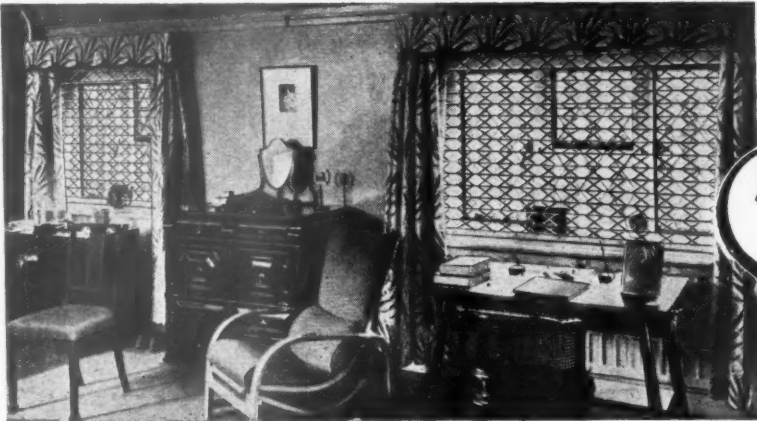
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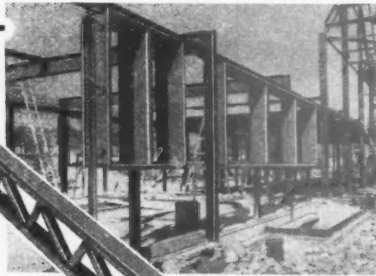
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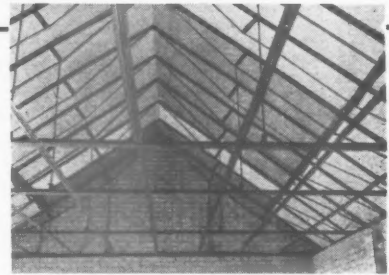
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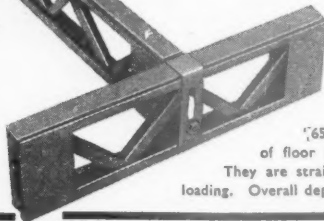


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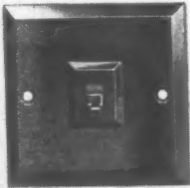
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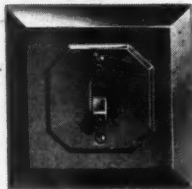
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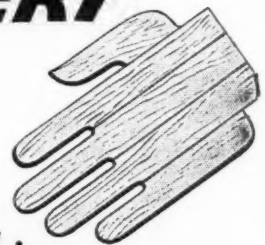


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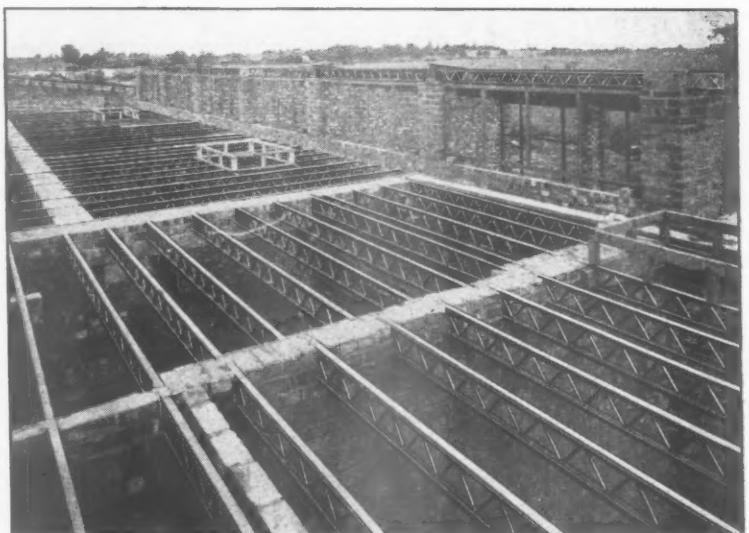
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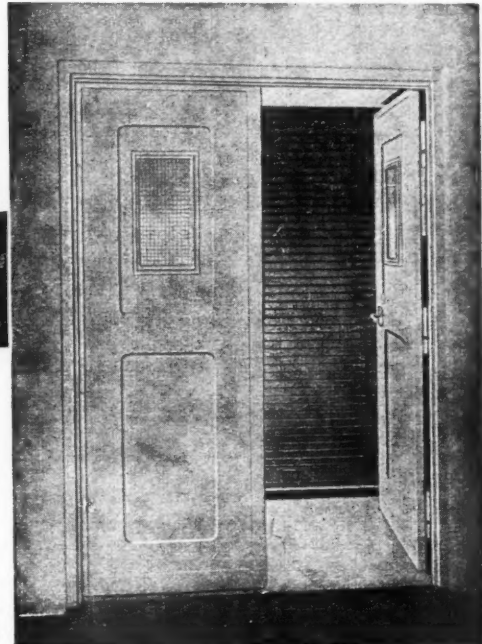


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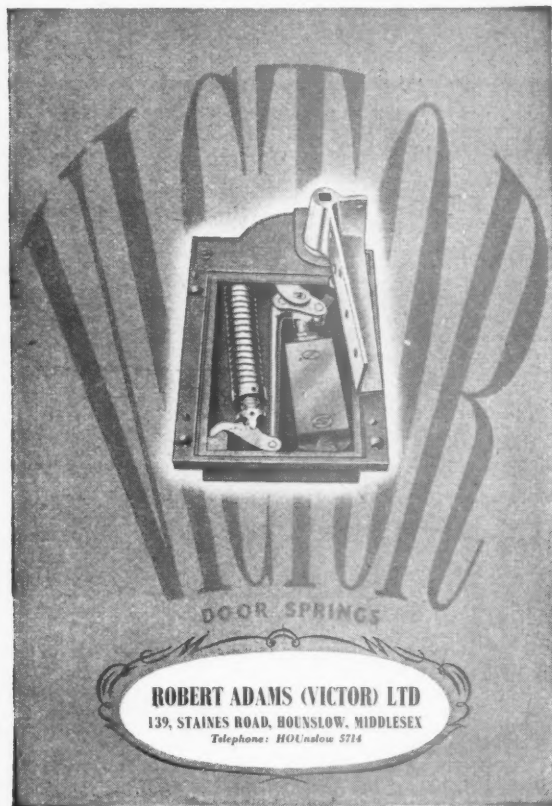
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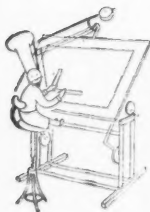
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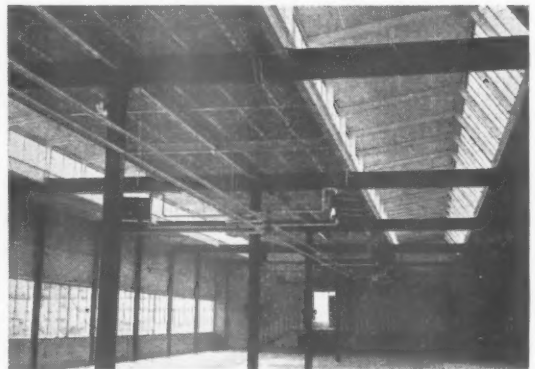
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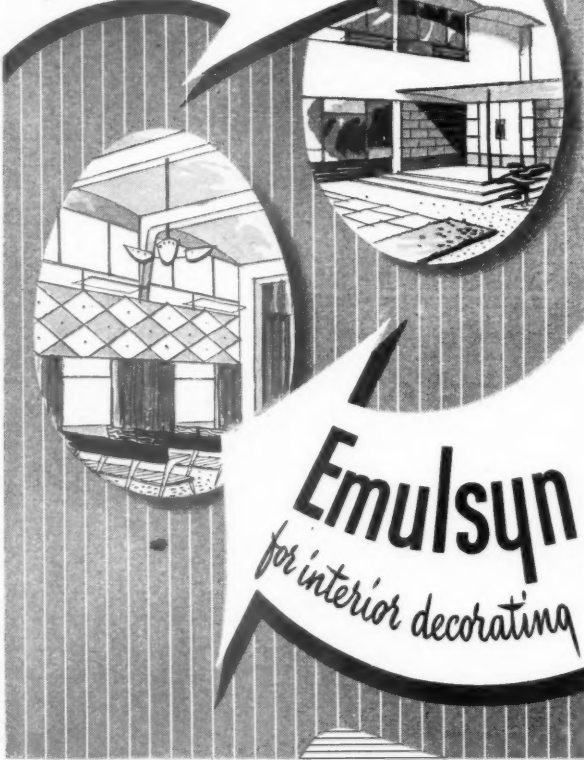
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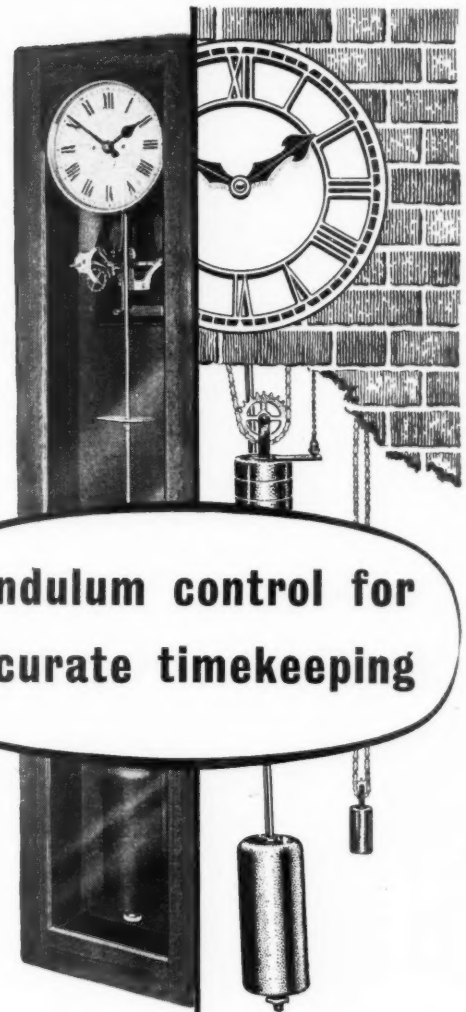
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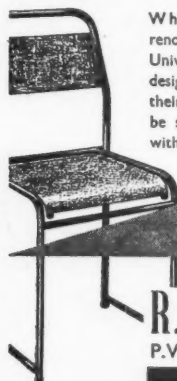
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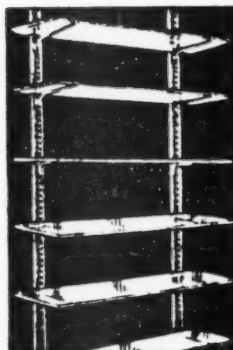
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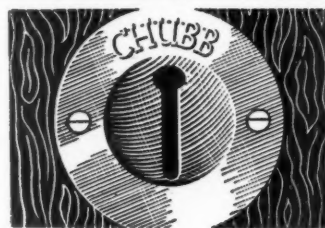


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Hokon Cantilever Brackets are the perfect space-savers for warehouses, factories, offices, libraries and department stores. Made from light alloy, these sturdy, light-weight brackets are supplied in

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If you have not got complete details of the full Chubb range, we will gladly send further particulars on hearing from you. Write or telephone: Chubb & Son's Lock and Safe Co. Ltd., 40-42 Oxford Street, London, W.1. Telephone MUSEUM 5822.

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CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by 5 p.m. on Friday morning for inclusion in the following Thursday's paper.

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

Public and Official Announcements

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

AIR MINISTRY WORKS DEPT.

ARCHITECTURAL DESIGNER/DRAUGHTSMEN required in Design 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 £675 per annum, with starting pay dependent upon age, qualifications and experience. Applications, stating age, qualifications, previous appointments (with dates), should be sent to Air Ministry (C20) Directorate-General of Works (W.9), Bush House, S.E. Wing, Strand, London, W.C.2, from which address further details may be obtained. 5162

WEST SUFFOLK COUNTY COUNCIL.

COUNTY PLANNING OFFICER.

Salary, £1,200 × £50—£1,400 per annum. Must be either Member or Associate Member of Town Planning Institute, and hold professional qualifications in architecture, engineering or surveying. Wide experience of planning in county, urban and rural areas is essential, preferably with a County Council. Administrative ability essential. N.J.C. service conditions; post pensionable; medical examination; car allowance on County Scale.

Application forms, obtainable from the Clerk of the County Council, Shire Hall, Bury St. Edmunds, to be returned by 23rd February, 1952. 6328

UNIVERSITY COLLEGE OF NORTH STAFFORDSHIRE.

Applications are invited for the post of—
(a) CLERK OF WORKS, salary scale £570-£620;
(b) CLERK OF WORKS, salary scale £500-£545 to work in the Department of the Buildings Officer and Architect.

Applicants for (a) must have a practical knowledge of all branches of the Building Trade, experience in the supervision of erection of buildings and must be capable of setting out, taking levels, measuring up, checking bills of quantities, keeping records and making reports. Experience of steel and reinforced concrete construction is essential. The work will primarily consist of supervision of the New Laboratory contracts.

Applicants for (b) will be required to assist in the supervision of the erection of halls of residence, flats, houses and other buildings.

The posts will be subject to superannuation and child allowances.

Applications, which should be in triplicate, giving date of birth, particulars of training and experience, past and present appointments, together with copies of two recent testimonials and names of two referees, should be forwarded to the Registrar, The College, Keele, Newcastle, Staffs., to be received not later than Saturday, 23rd February, 1952. 6339

BRACKNELL DEVELOPMENT CORPORATION.

Applications are invited for the following appointments:—

(1) SENIOR QUANTITY SURVEYOR. Salary £810 × £50—£960.

Applicants must be Corporate Members of the R.I.C.S. (Sub-Division III Quantities) and fully experienced in "taking off" dimensions and the preparation of bills of quantities for all classes of work.

(2) ASSISTANT ARCHITECT. Salary £610 × £40—£810.

Applicants must be Corporate Members of the R.I.B.A. and should have had good general experience including the design of house types and the layout and construction of large housing developments.

(3) ARCHITECTURAL ASSISTANT. Salary £480 × £20—£580.

Applicants should have passed or be in an advanced stage of preparation for the Intermediate Examination of the R.I.B.A. and should have had sound experience in design and construction.

These posts are superannuable under the Local Government Superannuation Act, 1937, successful candidates being required to pass a medical examination.

Subsistence allowances are payable in certain cases for a limited period to allow for arrangements being made for family accommodation locally.

Applications, in envelopes suitably endorsed, must give full particulars of age, qualifications and experience and past and present appointments (with salaries) together with the names of two persons to whom reference may be made, and must reach the General Manager, Bracknell Development Corporation, Farley Hall, Binfield, Bracknell, Berks, on or before 20th February, 1952. Candidates are required to state if they are, to their knowledge, related to any member of the Corporation or staff. 6337

UNIVERSITY COLLEGE OF NORTH STAFFORDSHIRE.

ASSISTANT ARCHITECTS.

Applications are invited for posts of Assistant Architect on the staff of the Buildings Officer and Architect of the University College of North Staffordshire. Appointments may be made on the grades Senior Assistant Architect, (a) £620-£760, (b) £620-£685 and Assistant Architect, (c) £530-£575, according to qualifications and experience. The duties may include work on buildings for teaching and research in the humanities and sciences, general purpose buildings, students' hostels, staff residences and general services. Superannuation and child allowances will be paid. Further particulars may be obtained from the Registrar, The College, Keele, Staffs., to whom three copies of applications giving full details of age, qualifications, experience, etc., and the names of three referees should be sent, to reach him not later than February 29th, 1952. 6338

BOROUGH OF WORTHING.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment on the permanent establishment of the Borough Engineer and Surveyor's Department of an Architectural Assistant, on Grade A.P.T. V, commencing salary £570 per annum, rising subject to satisfactory service by three annual increments (£15 × £15 × £20) to £620 per annum.

Candidates should preferably be Associates of the Royal Institute of British Architects, and possess a sound knowledge of the design, construction, and specification of types of building work carried out by a Local Authority, with special experience in School design and construction.

The appointment, which is terminable by one month's notice in writing on either side, will be subject to the National Scheme of Conditions of Service for Local Government Officers, to the Local Government Superannuation Act, 1937, and to the successful candidate passing satisfactorily a medical examination.

Applications, endorsed "Architectural Assistant, Grade V" stating age, qualifications, present and previous appointments and experience with dates, accompanied by copies of two recent testimonials, should be sent to the Borough Engineer and Surveyor, Town Hall, Worthing, not later than 22nd February, 1952. 6345

ERNEST G. TOWNSEND.

Town Clerk.

Town Hall, Worthing.

30th January, 1952.

STEVENAGE DEVELOPMENT CORPORATION.

Applications are invited for the post of CHIEF ARCHITECT AND PLANNER to the New Town of Stevenage, at a salary of £2,000 per annum. Candidates must be fully qualified Architects and Planners of considerable experience, with imaginative and contemporary approach to design. The successful applicant will be in charge of the Department of Architecture and Planning, including the general administration of the Department, and will be responsible for the planning and design of the New Town.

The Corporation will be able to offer to a successful married candidate the tenancy of a house.

Canvassing, directly or indirectly, of members of the Corporation or of staff will disqualify.

Applications should be made in writing by 3rd March, 1952, to Chief Administrative Officer, Aston House, near Stevenage, Herts., giving full details of qualifications, experience and appointments held, and present salary, and the names and addresses of two persons to whom reference may be made. 6352

CRAWLEY DEVELOPMENT CORPORATION.

Applications are invited for the post of CHIEF ARCHITECT to the Corporation, at a salary within the range £1,500 to £2,000 per annum, superannuated.

Applicants should be Fellows or Associates of the Royal Institute of British Architects and, in addition, have had experience of town planning work and the organisation and administration of a large architectural office.

Particulars and conditions relating to the appointment, together with an application form, can be obtained from the undersigned, and should be returned not later than the 3rd March, 1952. 6357

C. A. C. TURNER.

Chief Executive.

Crawley Development Corporation,

Broadfield, Crawley, Sussex.

EAST RIDING OF YORKSHIRE COUNTY COUNCIL.

LIST OF CONTRACTORS.

The County Architect would be pleased to receive applications from Contractors, Specialist Firms and Tradesmen who are desirous of having their names considered for inclusion in a revised list which is now being compiled for use in his department.

Contractors should state the maximum amount of contracts for which they would be prepared to tender and also give the names of references or, if possible, the names of Local Authorities for whom they have carried out work, at the same time stating the nature and the value of such work.

Applications should be addressed to the County Architect, County Hall, Beverley.

T. STEPHENSON.

Clerk of the Council.

County Hall, Beverley.

February, 1952.

COUNTY BOROUGH OF OLDHAM. APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment in my Department, at a salary of £685-£760 per annum, being Grade VII of the National Scale of Salaries.

The successful candidate will be provided with housing accommodation if necessary.

Candidates must hold recognised Architectural qualifications and have good experience in general architectural work.

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

Applications, stating age and previous appointments, in addition to qualifications and experience, and copies of two recent testimonials, must reach the undersigned not later than Saturday, the 23rd February, 1952, in envelopes endorsed "Senior Architectural Assistant."

A. L. HOBSON.

Borough Engineer and Surveyor.
75, Union Street, Oldham.
4th February, 1952. 6353

LANCASHIRE COUNTY COUNCIL—

PLANNING DEPARTMENT.

SECTIONAL PLANNING OFFICER (ARCHITECTURAL), A.P.T., Grade VIII (£735-£810), required at Preston. Candidates should be qualified Architects with practical housing experience.

Duties include preparation of layouts for housing estates, landscaping, and the design and construction of drawings for houses and ancillary buildings.

Applications, giving present salary, and two referees (preferably one should be present employer), to County Planning Officer, East Cliff County Offices, Preston, by 29th February, 1952. 6343

CORPORATION OF MANCHESTER.

CITY ARCHITECT'S DEPARTMENT.

MANCHESTER. Applications are invited from suitably qualified persons for the following positions, at salaries in accordance with the National Scheme of Service Conditions: (a) ASSISTANT QUANTITY SURVEYOR (fully qualified), £600-£660 per annum; (b) BUILDER'S ESTIMATING SURVEYOR, £530-£575 per annum, and (c) JUNIOR QUANTITY SURVEYING ASSISTANT, £245 per annum at age 21, rising by automatic increments and with opportunity of promotion to A.P.T. Division on passing appropriate Examination.

Further particulars and forms of application may be obtained from the City Architect, Town Hall, Manchester, 2, the forms to be returned to the same address by 25th February, 1952. Canvassing is prohibited. 6356

CITY OF LEICESTER EDUCATION

COMMITTEE.

COLLEGE OF ART DEPARTMENT OF

ARCHITECTURE.

Head of Department: F. CHIFFERDALE, F.R.I.B.A. Applications are invited for the post of STUDIO MASTER on the full-time staff. Candidates should be Registered Architects holding a degree or diploma of a recognised School.

Subject to the usual conditions relating to full-time service, the person appointed will be given opportunities to continue his professional practice.

Salary in accordance with the Burnham Further Education Scale for Assistant, Grade B, £450 × £25 to £725, with additions for training and graduate qualification, and with increments on the minimum of the scale for teaching experience, war service, and approved professional experience.

Applications (no special forms) should be sent to the Registrar, College of Art, The Newark, Leicester, within two weeks of the appearance of this advertisement.

ELFED THOMAS.

Director of Education.

KIDDERMINSTER RURAL DISTRICT

COUNCIL.

SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Senior Architectural Assistant in the office of the Engineer and Surveyor to the Council.

Candidates should have had considerable experience in the design and construction of dwelling houses, the preparation of specifications, and the measuring up and supervision of contractor's work.

The salary for the appointment will be fixed according to the qualifications of the applicant within the salary range of £600 to £700 per annum, and a travelling allowance will be paid in accordance with the National Scale. The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and will be determinable by one month's notice in writing on either side.

Housing accommodation will be provided for the successful applicant, as soon as possible, if required.

Applications, endorsed "Senior Architectural Assistant," stating age, qualifications and full particulars of experience, accompanied by copies of three recent testimonials, must reach the undersigned not later than 7th March, 1952.

J. H. SWANN.

Clerk to the Council.

Council Offices, Land Oak House,

Kidderminster.

6th February, 1952.

SUDAN GOVERNMENT.

The Public Works Department requires an ARCHITECTURAL ASSISTANT, aged 24 to 35, for service in the Sudan under the Chief Architect for the preparation of working drawings for general building work.

Candidates should have a sound architectural training and experience of general building work and be capable of the preparation of working drawings required.

Appointment will be on Short Term Contract for an initial period of two years. Salary ranges between £E.825 and £E.1,100. Starting rate would be determined according to age, qualifications and experience.

An outfit allowance of £E.50 is payable on appointment. There is at present no income tax in the Sudan. Free passage on appointment.

Further information and application form will be sent on receipt of a postcard only, addressed to the Sudan Agent in London, Wellington House, Buckingham Gate, London, S.W.1, quoting "Architectural Assistant, 4/1308," and name and address in block letters. 6344

NEWCASTLE REGIONAL HOSPITAL BOARD.

PREPARATION OF DEVELOPMENT PLANS. The Board wishes to proceed with the preparation of development plans for the extension of building fabrics of the hospitals named below to accommodate in each hospital a total of 1,270 mentally-deficient patients.

(i) Northgate and District Hospital, Morpeth (at present having accommodation for 375 beds).

(ii) Aycliffe Hospital, Heighington (at present having accommodation for about 250 beds).

In the first instance the commissions will be limited to the preparation of layout plans only sufficient to indicate in block outline the disposition and approximate sizes of the requisite buildings, together with all necessary roads and paths. The Board cannot at present envisage that it will be possible for the construction of any major parts of the schemes to be commenced for several years, but wishes to have an agreed layout plan for each hospital subject to which any small buildings or extensions may be constructed in advance of the major development. By agreement with the architect who may be appointed to prepare the general layout plan such small buildings or extensions may be planned in detail and constructed under the supervision of the Board's Architect or of a local private architect.

Architects who are interested in receiving an invitation to act for the Board in connection with one or both of these projects should forward their names and full details of their experience of hospital design and construction (and in particular of any such experience in connection with mental-deficiency hospitals) to the undersigned not later than 15th March, 1952.

E. B. JENKINS,

Secretary.

"Danira," Osborne Road, Newcastle-on-Tyne, 2, 4th February, 1952. 6370

CIVIL SERVICE COMMISSION. ARCHITECTS, MAINTENANCE SURVEYORS, QUANTITY SURVEYORS, AND LAND OFFICERS (RURAL).

The Civil Service Commissioners invite applications for permanent appointments to the basic grades given above, in a number of Departments in England. Applications will be accepted at any time up to and including 31st March, 1952. Selected candidates will be interviewed as soon as possible after the receipt of their application forms. Successful candidates may expect early appointments. Candidates are advised to apply as early as possible.

All candidates must be at least 25 and under 35 years of age on 1st January, 1951, with extension for regular service in the F.R.C.S. and up to two years for permanent Civil Service. All candidates must have the appropriate professional qualifications and experience.

The salary on appointment will be fixed according to age up to 34. The London salary for men aged 25 is £575 rising by annual increments of £25 to £750 and by £30 to £900. Prospects of promotion.

(The next higher grades are:—Main Grade, £900-£1,200; Senior Grade, £1,250-£1,450.) Salaries for women and for officers appointed to the provinces will be somewhat lower.

Forms of application and regulations with full details of qualifications required from the Civil Service Commission, Scientific Branch, Trinidad House, Old Burlington Street, London, W.1, quoting No. 3405TA. Completed application forms should be returned as soon as possible. 6376

COUNTY OF LONDON.

BUILDING BY-LAWS.

LONDON BUILDING ACTS, 1930-1939. The London County Council gives notice, in accordance with Section 8(a) of the London Building Act (Amendment) Act, 1935, that it proposes, not less than two months from the date of this notice, to make by-laws under the above-mentioned Acts with respect to the fire-resisting construction of buildings and the construction of hearths in and before fireplaces openings and matters connected with or ancillary to those matters, which by-laws are intended to be in substitution for by-laws 9.02, 9.03, 9.07, 9.09, 10.09 and Schedule VII of the London Building (Constructional) By-laws, 1951, in respect of which notice, in pursuance of Section 8(a) aforesaid, was published on 31st August, 1951.

Any authority, body or person desirous of objecting to any proposed by-law may do so within six weeks after the publication of this notice by a letter addressed to the Minister of

Housing and Local Government, Whitehall, London, S.W.1, setting out the grounds on which objection is made.

Copies of the proposed by-laws are deposited at The County Hall, Westminster Bridge, S.E.1, and are open to public inspection without payment on any week-day during the usual office hours.

Copies may also be purchased, price 6d. a copy, post free 7d., either directly or through any bookseller, from Staples Press Ltd., Staples House, Mandeville Place, W.1, agents for the sale of the publications of the London County Council.

HOWARD ROBERTS,

Clerk of the London County Council.

The County Hall, S.E.1. 6381

6th February, 1952. (137)

THE GLASGOW SCHOOL OF ARCHITECTURE.

LECTURESHIP IN ARCHITECTURE.

LECTURER for the Degree and Diploma Courses in the Department of Architecture in the Royal Technical College, Glasgow.

Salary scale: £600-£50-£130. Position on the scale according to qualifications and experience. Forms of application from The Secretary, Royal Technical College, Glasgow, C.1. 6377

THE ROYAL TECHNICAL COLLEGE, GLASGOW.

DEPARTMENT OF ARCHITECTURE AND BUILDING.

ASSISTANT LECTURER in Building Subjects for the Courses in Quantity Surveying and Building.

Salary scale: £450-£25-£550. Position on the scale according to qualifications and experience. Forms of application from The Secretary. 6378

BASILDON DEVELOPMENT CORPORATION.

Applications are invited for the following posts on the staff of the Chief Architect Planner, N. Tweddell, A.R.I.B.A. The work will ultimately cover a wide variety of New Town development, but sound professional training and the experience indicated below is essential:—

(a) ASSISTANT PLANNER. £710-£810. Neighbourhood planning and layout of town centre.

(b) ASSISTANT ARCHITECTS. £710-£810. Housing design, working drawings, and supervision of contracts.

(c) ASSISTANT ARCHITECTS. £610-£710. Preparation of working drawings for a variety of buildings.

Commencing salary within ranges stated will be in accordance with experience and ability. Appointments are supernumerary and houses in the new town may be available shortly to successful applicants. Substantive allowances are payable in addition to salary in approved cases (up to a maximum of six months) until arrangements are made for family accommodation within a reasonable distance of the Corporation offices. Successful applicants will be required to pass a medical examination.

Applications are to be made on a form obtainable from the Chief Architect, and should reach the General Manager of Basildon Development Corporation, Gifford House, Pitsea, Essex, by the 25th February, 1952. 6379

Tenders for Contracts

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

COUNTY BOROUGH OF READING.

AMENDED ADVERTISEMENT.

TO BUILDERS AND CONTRACTORS.

The Corporation of Reading invite Tenders for the erection of a Water Department Dep't. Stores and Workshops (with ancillary works) at Berkeley Avenue, Reading. Part of the building is to be two storey in traditional construction, the remainder to be single storey in prefabricated concrete.

The General Conditions of Contract and Drawings may be inspected at the office of the Borough Architect, Town Hall, Reading, and a copy of the Bills of Materials, Form of Tender and endorsed envelope may be obtained on application to him accompanied by a cheque for two guineas (made payable to the Reading Corporation), which will be refunded upon the receipt of a bona fide tender not subsequently withdrawn. The documents for tendering purposes will be ready for despatch on the 16th February, 1952.

Tenders must be delivered to me at my office not later than Friday, the 7th March, 1952.

No tender will be considered unless enclosed in the endorsed envelope provided and sealed, and not bearing any name or mark indicating the sender. The Corporation do not bind themselves to accept the lowest or any tender.

G. F. DARLOW,

Town Clerk.

Town Hall, Reading. 6380

February, 1952.

Architectural Appointments Vacant

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

ARCHITECTURAL ASSISTANTS required with at least three or four years' office experience; minimum standard R.I.B.A. Intermediate. Five-day working week with pension scheme and staff canteen in operation. Applications in writing, giving age, training and experience to: Chief Staff Architect, Ilford Limited, Romford, Essex. 6382

WANTED immediately, in office of Architect dealing with domestic work for London Housing Company, ARCHITECTURAL ASSISTANT of Inter. R.I.B.A. standard, able to prepare designs, working drawings and specifications. Salary £400 to £500 per annum, according to experience and capabilities. Pension scheme. Box 6367.

QUALIFIED CHIEF ASSISTANT (member also of R.I.C.S. or I.A.A.S.), able to prepare bills of quantities and experienced Final Accounts, required in East Midlands office. Car owner. Excellent future prospects for right man. No housing accommodation available. Reply to Box 6275.

ARCHITECTURAL ASSISTANTS of approximately R.I.B.A. Inter. standard required for preparing sketch and working drawings of contemporary industrial type buildings. Apply giving details of experience and age, etc. Box 6321.

CADBURY BROTHERS LIMITED require an ARCHITECTURAL ASSISTANT with knowledge of industrial design, able to assist with a large new factory on which construction is now commencing. Write, stating age, experience and salary required to E.M.A., Cadbury Brothers Ltd., Bourville, Birmingham. 6309

ARCHITECTURAL ASSISTANT up to or Inter. R.I.B.A. standard required for Architects with general and country practice including local authority housing. Write stating age, training, experience and salary required, to G. Forsyth Lawson & Douglas Hutton, L.A.R.I.B.A., 30, Horse Fair, Banbury, Oxon. 6348

ARCHITECTURAL ASSISTANT, senior position, require immediate; salary £200-£300 per annum. Please write, stating details of experience and qualifications to J. H. Boyd Barrett, A.R.I.B.A., F.R.I.B.A., Chartered Architect, 5, Cannon Place, Cork. 6350

SENIOR ARCHITECT'S ASSISTANT, with knowledge of quantities, estimating and builders' accounts essential. Permanency after probation. Commencing salary £450 per annum, or according to experience. Applications should be made in writing, giving full particulars, to Cable and Wireless, Ltd., Electra House, Victoria Embankment, London, W.C.2. 6065

JUNIOR ARCHITECT'S ASSISTANT. Good draughtsman with office experience, working drawings and details. Permanency after probation. Commencing salary £350-£400, according to experience. Applications should be made in writing, giving full particulars, to Cable and Wireless, Ltd., Electra House, Victoria Embankment, London, W.C.2. 6366

THE RILEY-NEWSOM Housing Department of H. Newsom, Sons & Co., Ltd., Lincoln, is carrying out a large and expanding programme of export housing, and requires a SENIOR ARCHITECT for an important executive position. The essential attributes for the post are:—

(1) Experience in preabrication in timber, and preferably a knowledge of Australian practice and requirements.

(2) A flair for small-house planning, coupled with an ability to recognise the implications of mass-production, shipping and erection considerations upon basic design.

(3) A strong personality, drive and personal initiative, coupled with an ability to co-operate with specialists and to co-ordinate related activities.

The appointment carries every opportunity for personal advancement as well as scope for achievement on large-scale projects.

Applications, marked "Confidential," should be made in writing, giving details of experience and qualifications. 6364

Architectural Appointments Wanted

ARCHITECT, wide experience, 35 years of age, used to full supervision of contracts and staff, seeks administrative position in London area. Box 365.

ASSISTANT (30) with 6 years' experience, including levelling; studying for Special Final; seeking appointment with progressive London office. Good draughtsman and keen. Box 364.

ARCHITECTURAL ASSISTANT, Inter. standard, requires position in a progressive London office. Box 375.

QUALIFIED Building Surveyor, A.R.I.C.S., with experience of architectural work, seeks position which requires a sound knowledge of both professions with the emphasis on architecture as adviser wishes to qualify for membership of R.I.B.A. Box 6318.

ARCHITECT (dist. in thesis) requires position in office with contemporary spirit. Age 29. 5 years' experience on housing and school projects. Willing to go anywhere. Box 369.

ASSOCIATE (30), Dip.Arch., varied experience, specialising in Landscape Architecture and Interior Design, requires part-time position in London area. Own car. Box 6345.

R.I.B.A. (42) seeks senior position. Many years experience London, provinces and overseas. Please state approximate salary. Box 380.

R.I.B.A., A.A.Dip. (29), seeks post in Notts or Lines with view to eventual Partnership. 5 years' office experience. Box 381.

R.I.B.A., A.A.Dip. (Hons.), with several years office and site experience, requires employment giving scope for initiative in contemporary design of a not too stereotyped nature. Small but advanced London office preferred. Box 383.

R.I.B.A., A.A.Dip., requires position in private practice London area. 5 years' office experience. Box 382.

BUILDING SURVEYOR AND ARCHITECTURAL ASSISTANT (aged 29) competing minor subject for final R.I.C.S. this March requires position with firm of Architects or Surveyors. 3 years full-time study, 3 years' practical experience of working drawings, surveying of land and buildings, site supervision, structural surveys and reports. Final City and Guilds Builders' Quantities. Present salary £500 p.a. Box 634.

SITUATION where 23 years experience of Sanitary Fittings, Fireplaces and Building Materials will be fully exploited, sought by energetic man. Good draughtsman with gift for perspective drawing. Knowledge of drainage, plumbing schemes and building construction. £150 p.a. E. T. Caseburne, 35, St. Michaels Crescent, Pinner. Pinner 9063. 385

EXPERIENCED Chartered Structural Engineer and Surveyor seeks appointment with Architect, Architectural and engineering work, surveys, contract management. Can introduce business. Box 634.

COLLEGE trained Student, R.I.B.A. (aged 23), passed Intermediate Examination 1949 but who has not worked in an office, wants post as ARCHITECT'S ASSISTANT or JUNIOR in London or Home Counties. Salary not important. Box 386.

ASSISTANT (24), R.I.B.A. Final standard, very keen to progress, desires work with contemporary architecture. Some office experience. Box 387.

ARCHITECT (age 31), B.A., A.R.I.B.A., A.M.T.P.I., desires responsible position in private practice in Manchester area. Box 388.

ASSISTANT (25), 1½ years' office experience, passed R.I.B.A. Final, seeks position in private office in London or Home Counties. Scott, 13, St. George's Square, S.W.1. 389

ASSISTANT (27), Polytechnic trained. Final except thesis, with experience in general practice, requires post in small private office with scope for initiative and responsibility. Box 350.

Other Appointments Vacant

4 lines or under, 1s. 6d.; each additional line, 2s.

THE LONDON HOSPITAL, Whitechapel, E.1, in its applications for the appointment of ASSISTANT ARCHITECT. Salary within the range of £600-£700 per annum according to experience. Candidates should be members of the R.I.B.A. or equivalent and preferably experienced in hospital work. The post is superannuable under the National Health Service Regulations, 1947/49. Applications giving age, present salary and brief statement of qualifications and experience should be addressed to the Surveyor. 6347

OFFICE trained and experienced ASSISTANTS required, 30-35 years old, in Architect's Department in City. Must be used to work of good class, preparing complete drawings and specifications of new buildings and alterations, also maintenance repairs. Secure future for suitable applicants. Write giving particulars of past work, age and salary required. Box 639.

CLERK OF WORKS required for full-time services beginning on 1st May, 1952, for the inspection and supervision of the following works at National Vegetable Research Station, Wellesbourne, Warwickshire:—Construction of concrete and tarmacadam roadways, deep sewers and main drainage, sewage disposal works, reinforced concrete bridge, water mains, etc., pumping station, concrete reservoir and farm buildings, laboratories, houses and cottages. Applicant must be fully experienced; first-class references essential. Expected duration of contract approximately 2 years. Apply, stating age, salary required, and full particulars, to the Secretary, National Vegetable Research Station, Wellesbourne, Warwick. 6356

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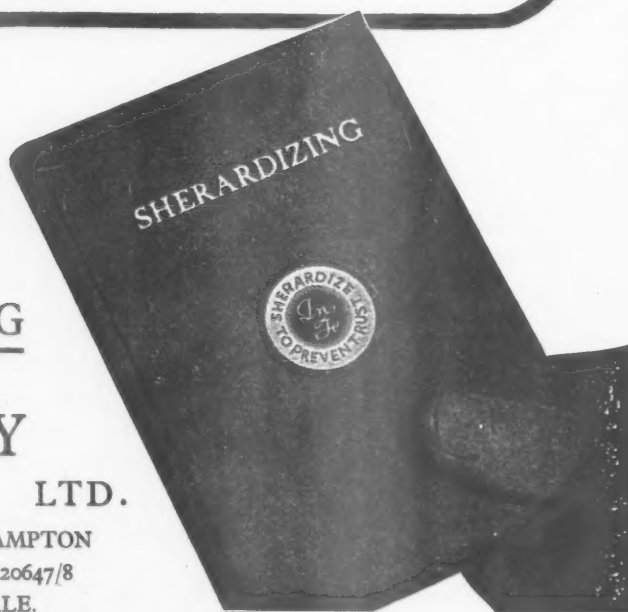
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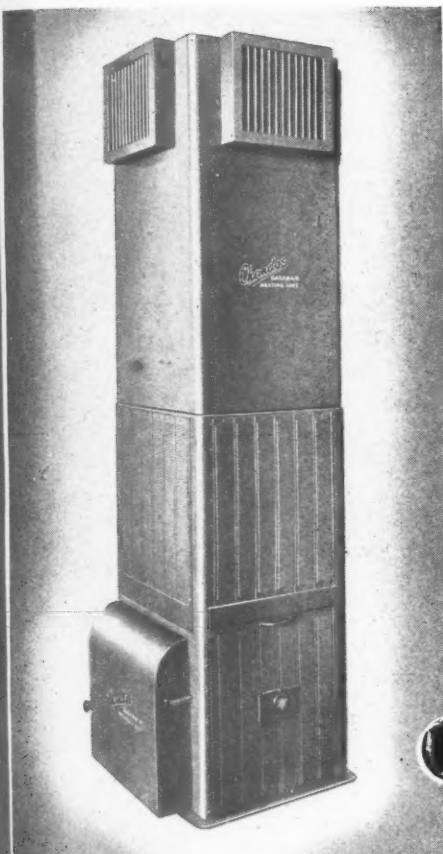
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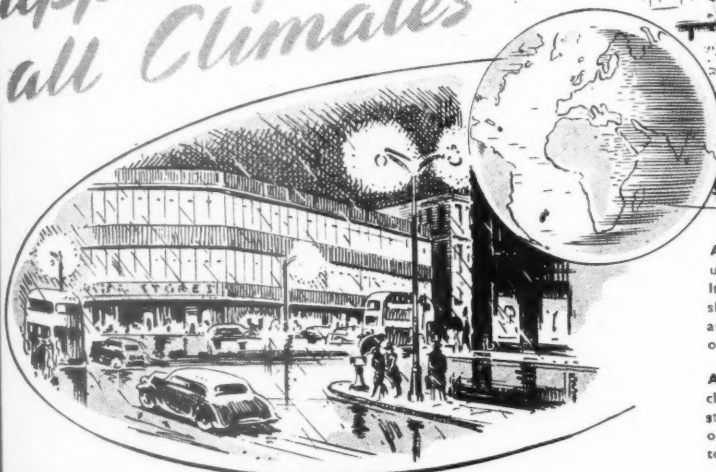
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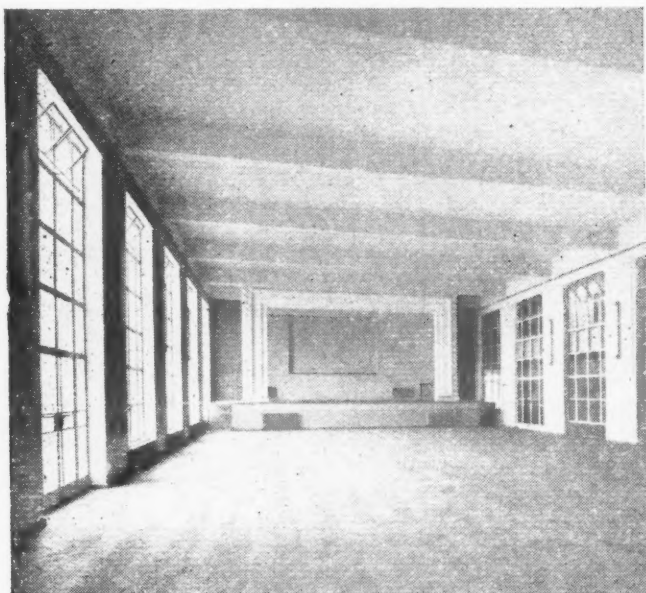


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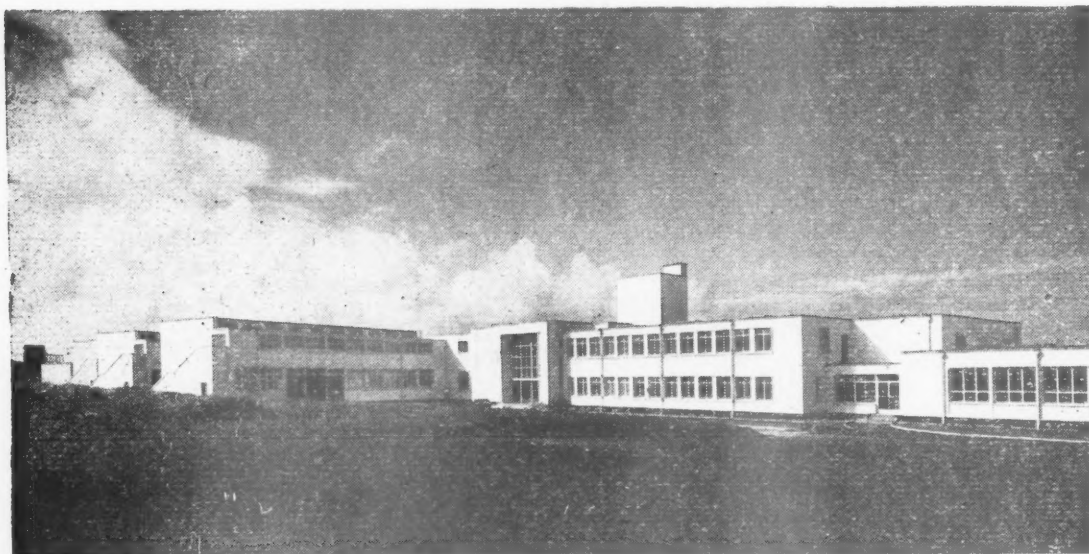
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