

# THE ARCHITECTS' JOURNAL



## standard contents

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

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

IGE	Institution of Gas Engineers. 17, Grosvenor Crescent, S.W.1.	Sloane 8266
IHVE	Institution of Heating and Ventilating Engineers. 75, Eaton Place, S.W.1.	Sloane 3158/1601
IIBD	Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.1. Euston 2450	Museum 1783
ILA	Institute of Landscape Architects. 12, Gower Street, W.C.1.	
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.	Avenue 6851
IR	Institute of Refrigeration. Dalmeny House, Monument Street, E.C.3.	Abbey 6172
IRA	Institute of Registered Architects. 47, Victoria Street, S.W.1.	Sloane 7128
ISE	Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1.	Museum 9200
IWA	Inland Waterways Association. 11, Gower Street, W.C.1.	
LIDC	Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1.	Whitehall 7264/4173
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, 9, Conduit Street, W.1. Mayfair 8641	Whitehall 3400
MOA	Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1.	Mayfair 9400
MOE	Ministry of Education. Curzon Street House, Curzon Street, W.1.	Whitehall 4300
MOH	Ministry of Health. Whitehall, S.W.1.	Regent 8411
MOLGP	Ministry of Local Government and Planning. 23, Saville Row, W.1.	Whitehall 6200
MOLNS	Ministry of Labour and National Service, 8, St. James's Square, S.W.1.	Gerrard 6933
MOS	Ministry of Supply. Shell Mex House, Victoria Embankment, W.C. 1.	Mayfair 9494
MOT	Ministry of Transport. Berkeley Square House, Berkeley Square, W.1.	Reliance 7611
MOW	Ministry of Works. Lambeth Bridge House, S.E.1.	
NAMMC	Natural Asphalte Mine-Owners and Manufacturers Council. 94-98, Petty France, S.W.1.	Abbey 1010
NAS	National Association of Shopfitters. 9, Victoria Street, S.W.1.	Abbey 4813
NBR	National Buildings Record. 37, Onslow Gardens, S.W.7.	Kensington 8161
NCBMP	National Council of Building Material Producers, 10, Princes Street, S.W.1.	Abbey 5111
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street, W.1. Langham 4041/4054	
NFBTO	National Federation of Building Trades Operatives, Federal House, Cedars Road, Clapham, S.W.4.	Macaulay 4451
NFHS	National Federation of Housing Societies. 13, Suffolk St., S.W.1.	Whitehall 1693
NHBRC	National House Builders Registration Council. 82, New Cavendish Street, W.1.	Langham 4341
NPL	National Physical Laboratory. Head Office, Teddington.	Molesley 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.	
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
TTP	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 Street, S.W.1.	Victoria 5783
ZDA	Zinc Development Association. Lincoln House, Turl Street, Oxford.	Oxford 47988

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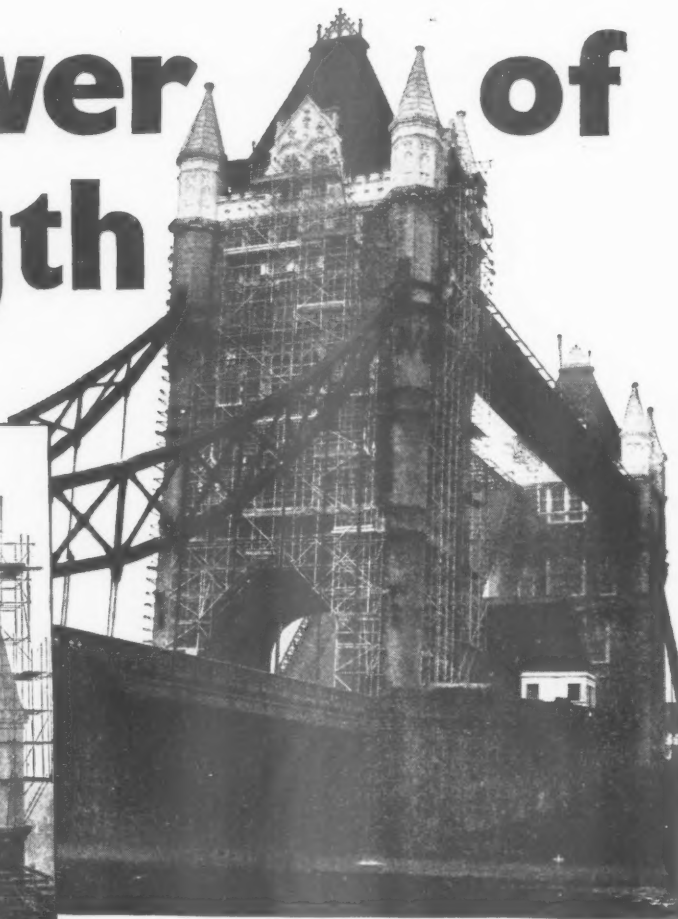
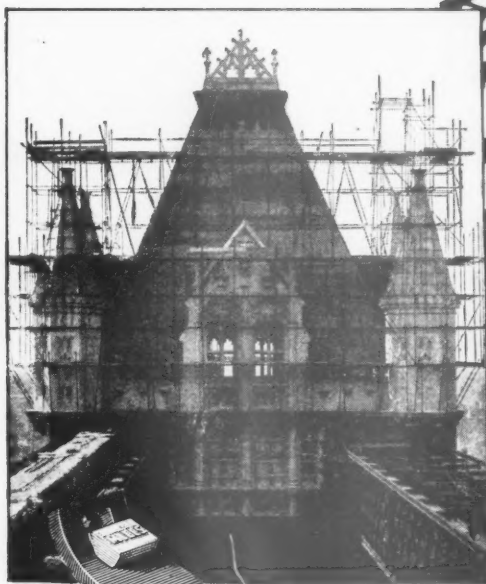
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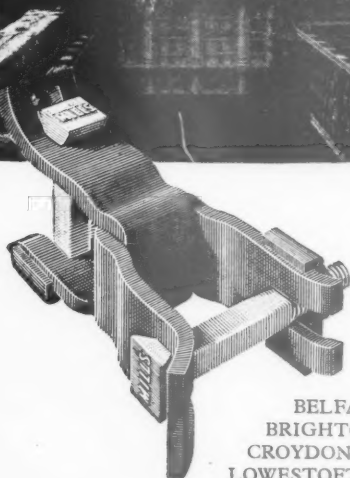
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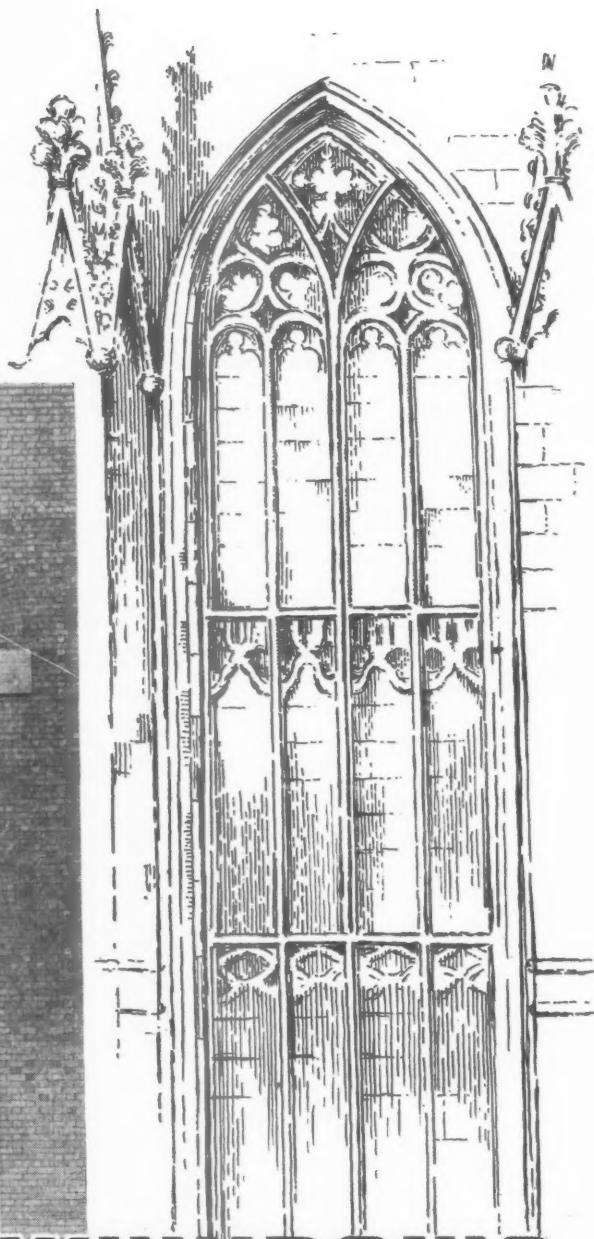
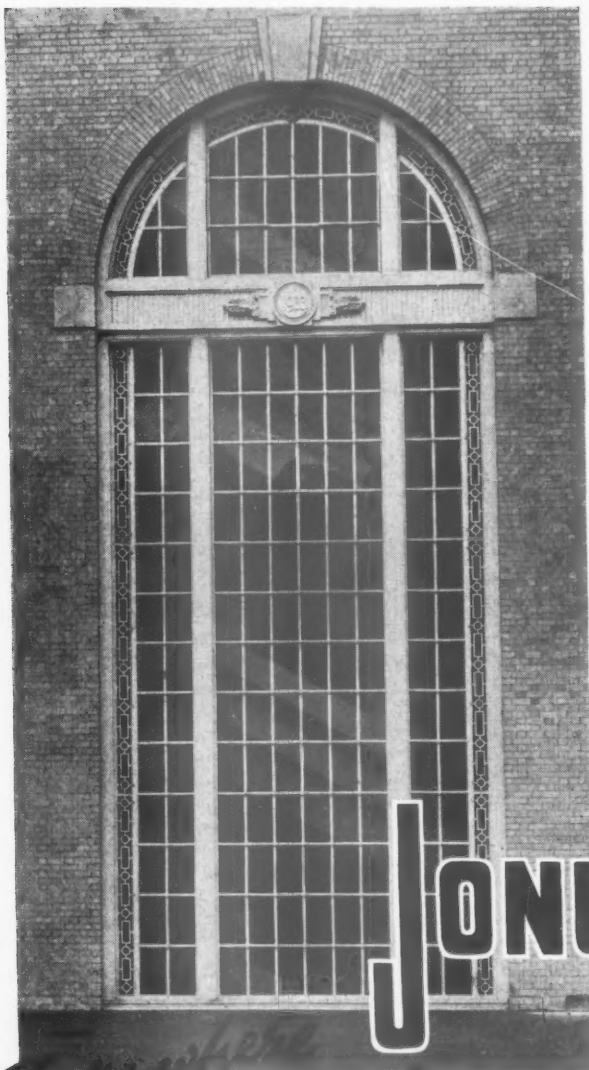
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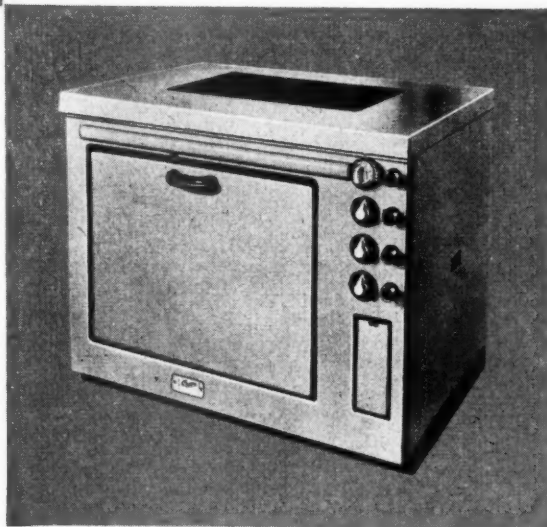
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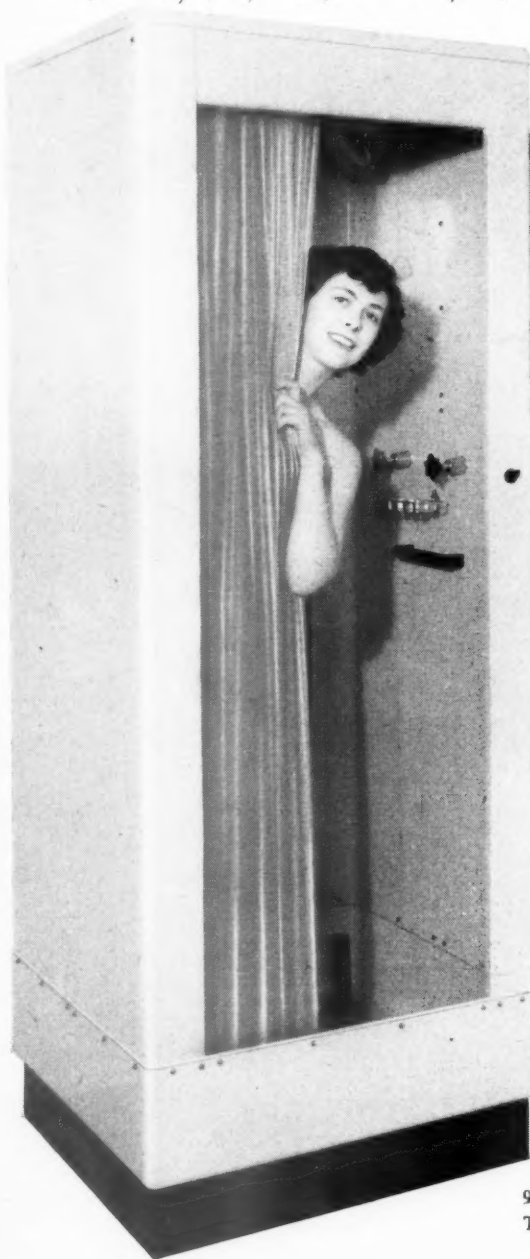
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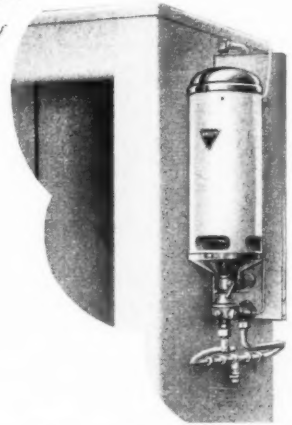




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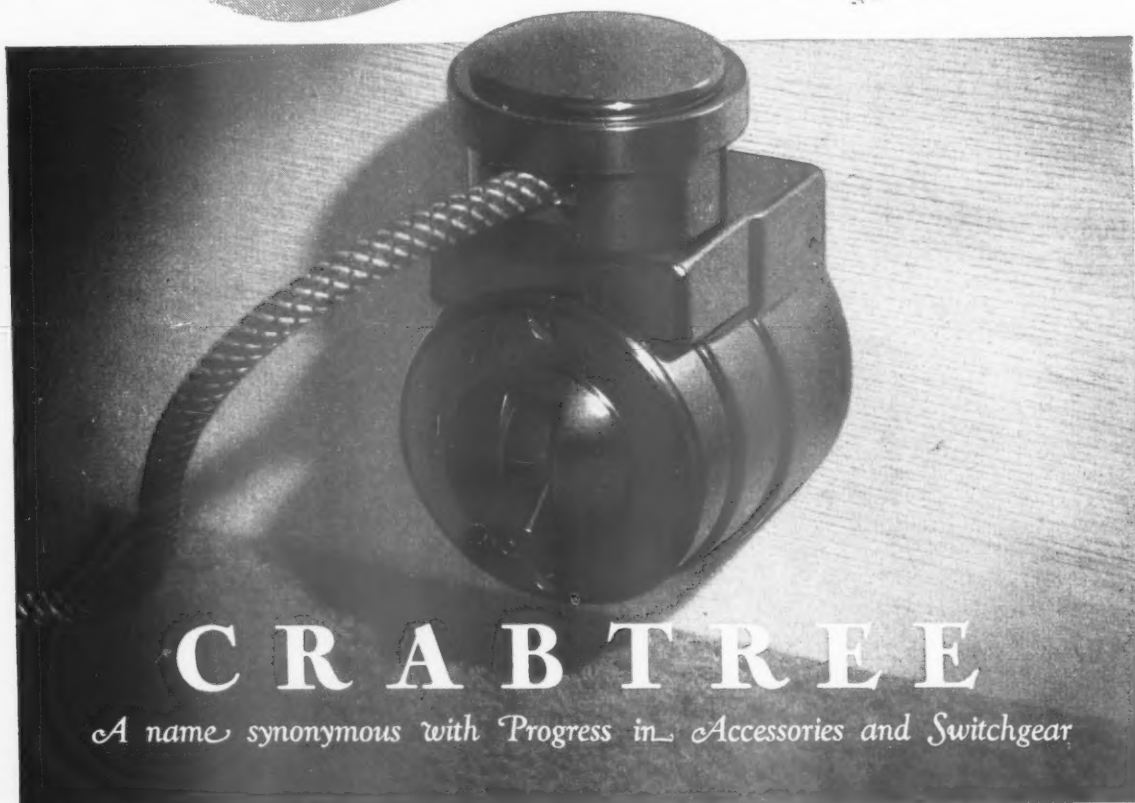
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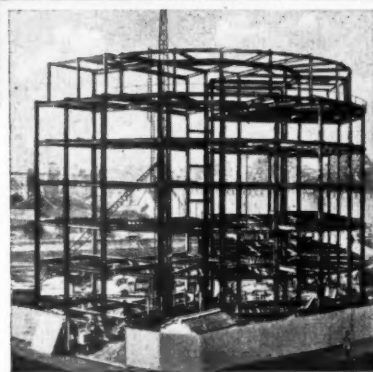
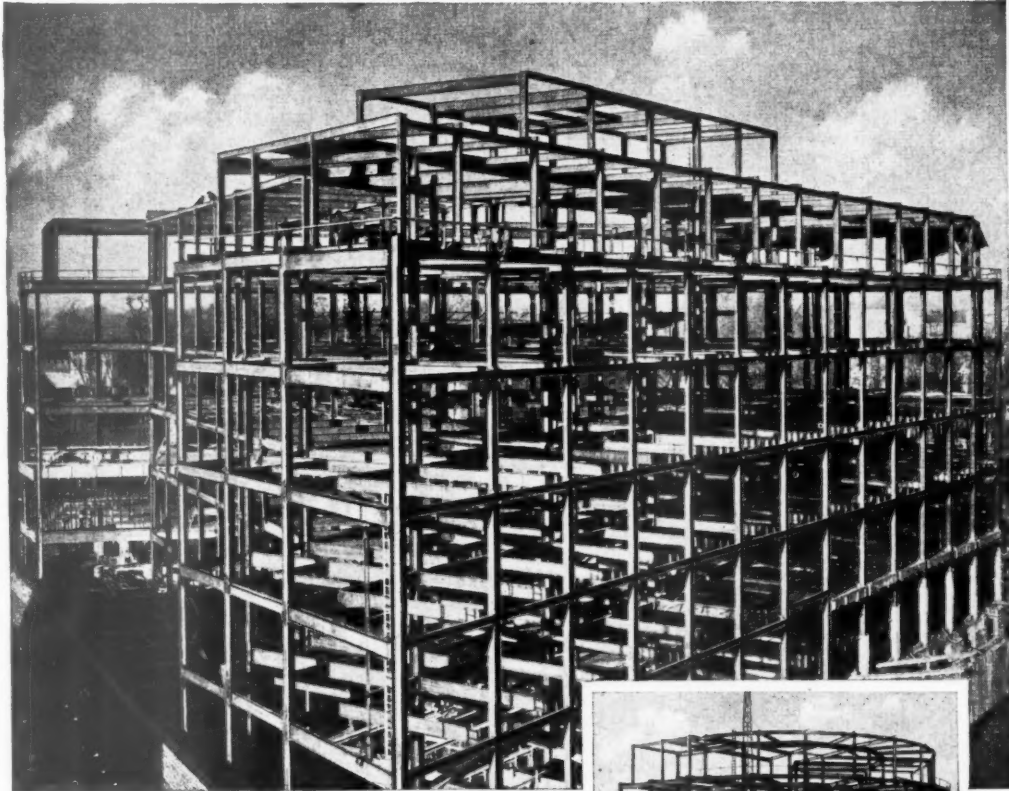


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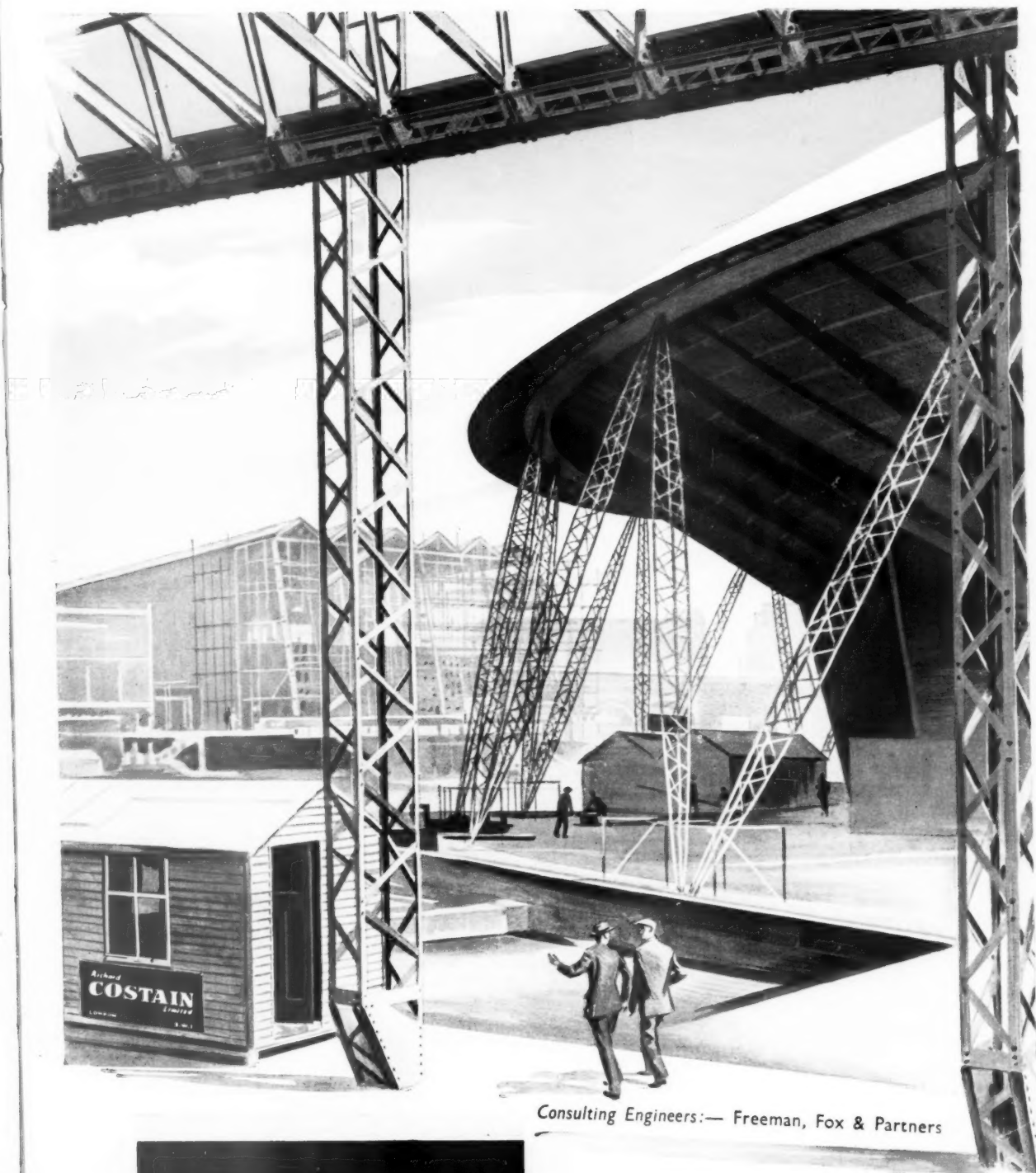
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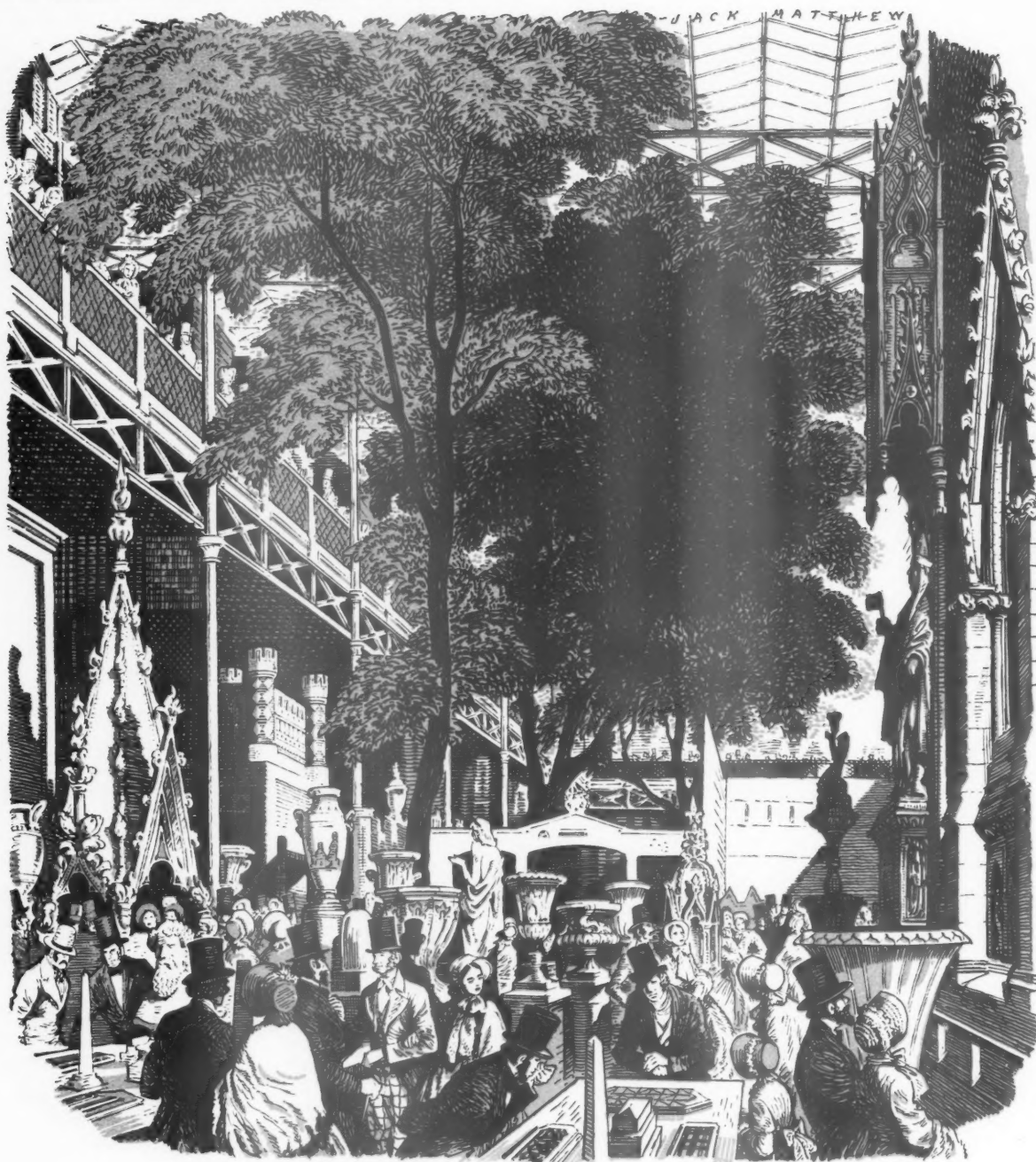
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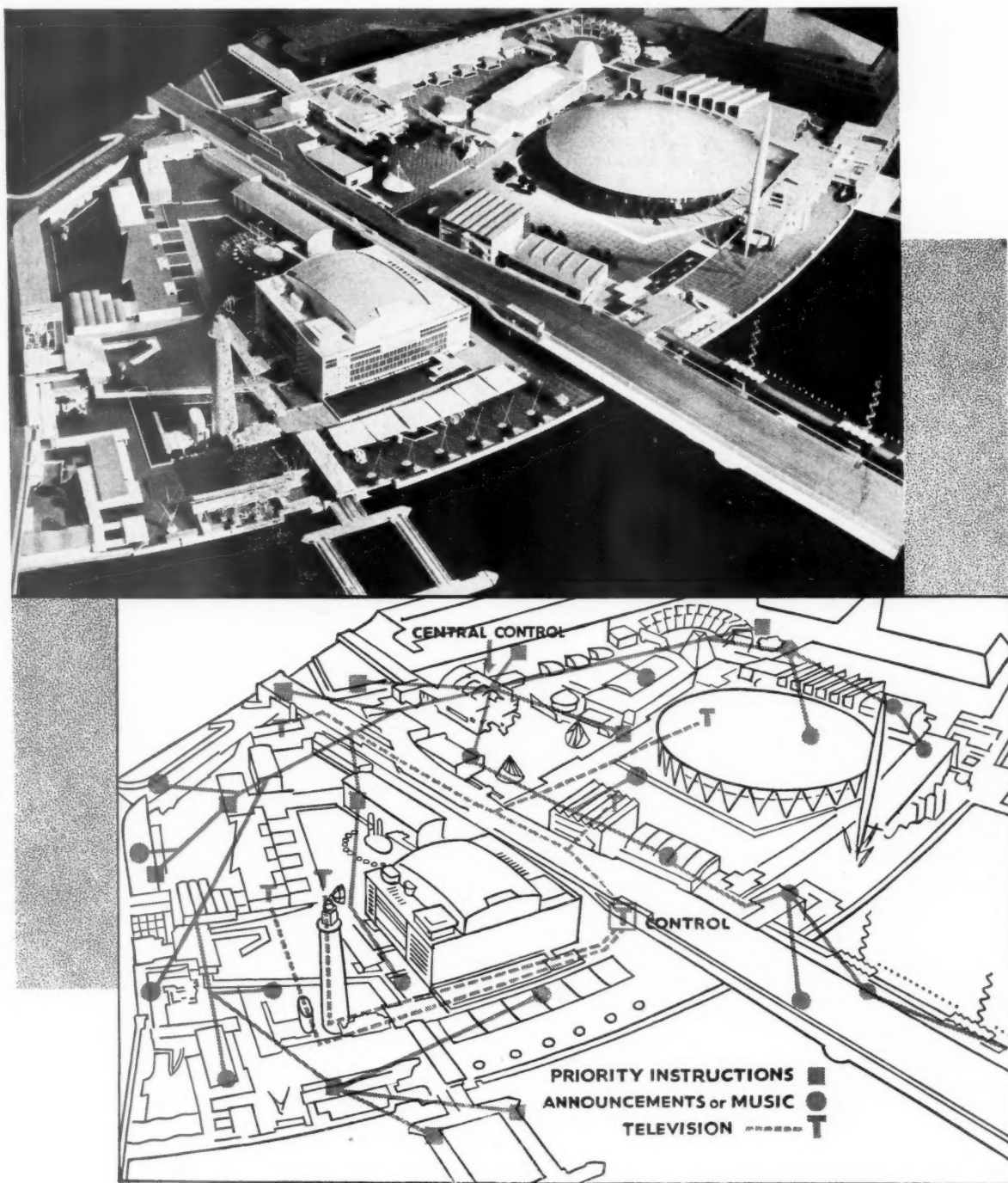
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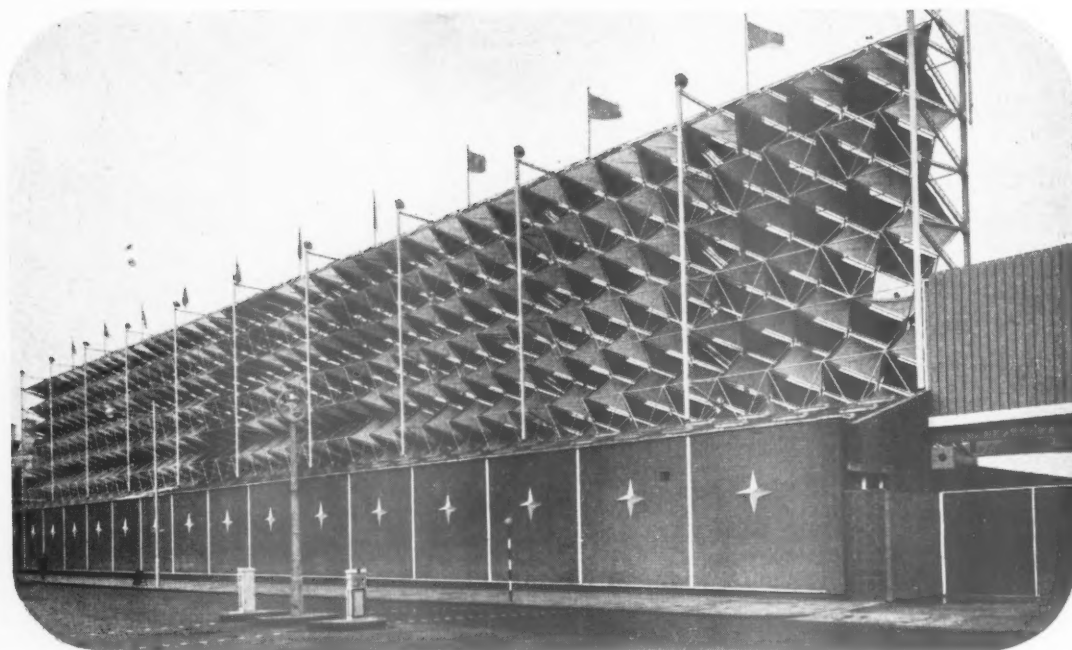
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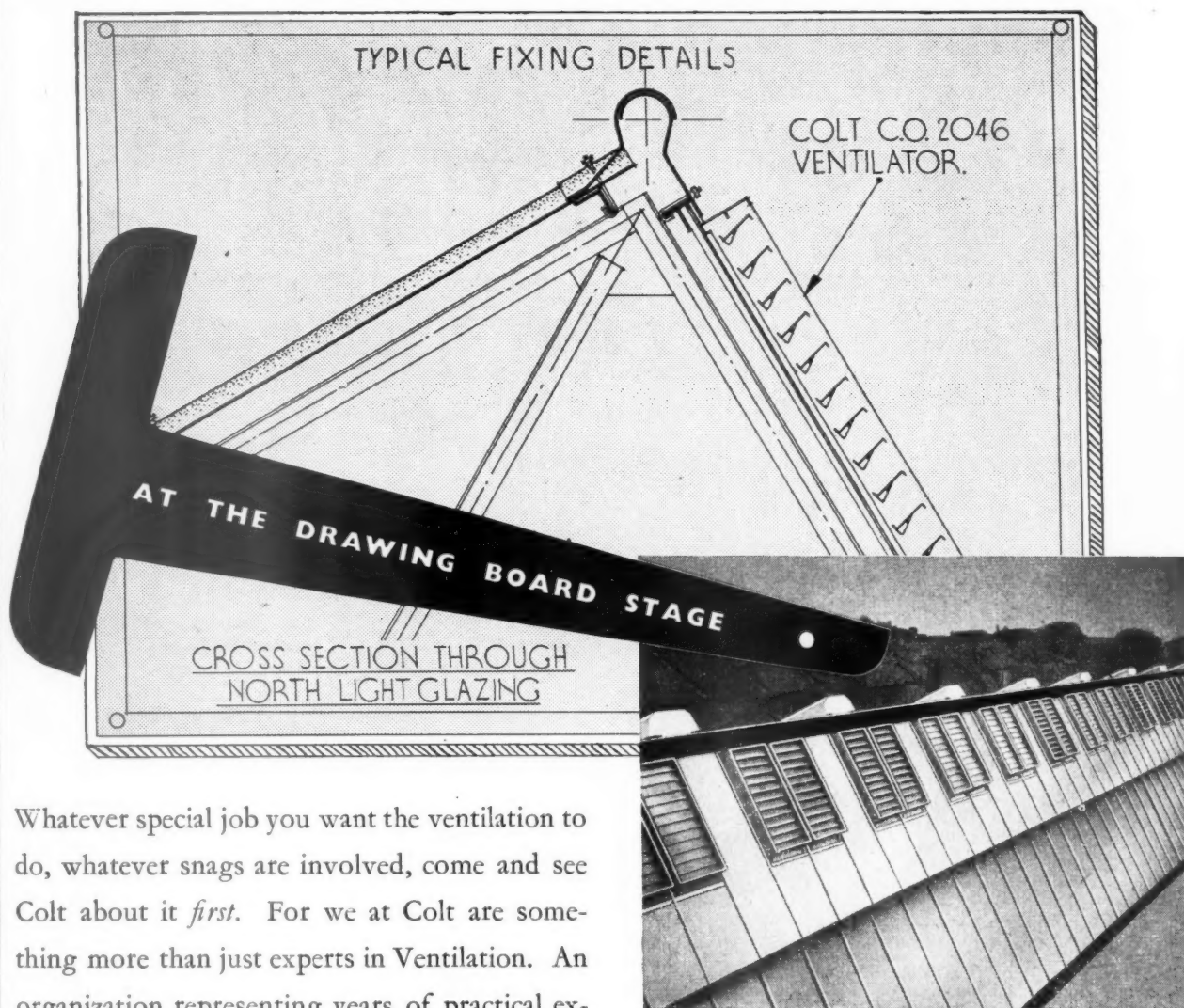
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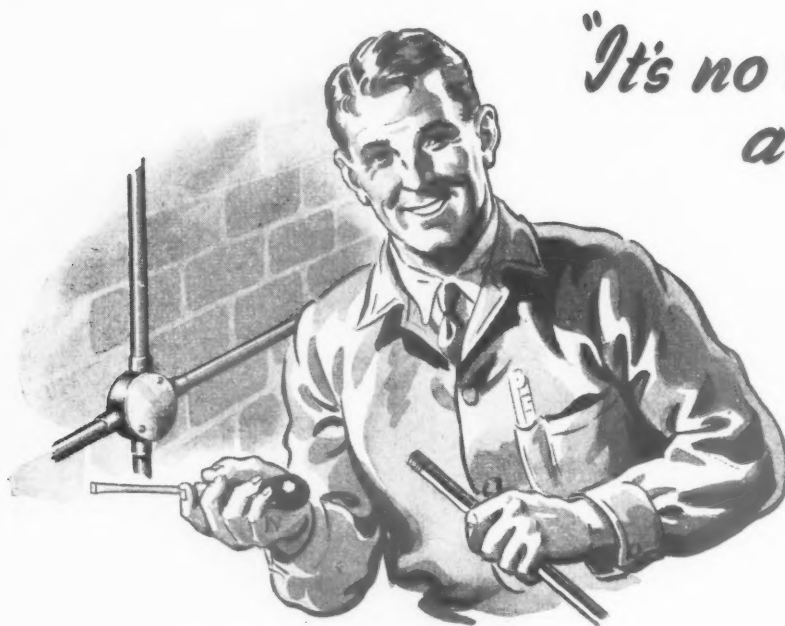
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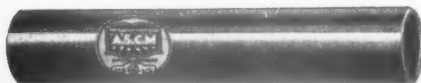
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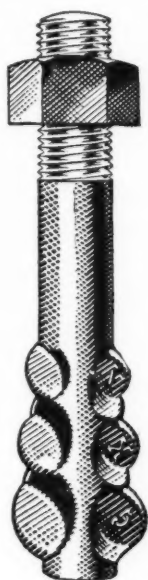


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- **IT'S HIGHLY EFFICIENT.** With a thermal conductivity of only 0.58 B.Th.U.s. per sq. ft., per hour, per 1" thick, per 1° Fahrenheit difference in temperature. MARLITH ROOF INSULATION has better insulating value than any other commonly used roof insulating material. It serves effectively in keeping heat in or out—permanently.
- **DURABLE. IT WON'T WARP OR DECAY.** Varying temperature or humidity will not cause this roof insulation to warp, swell, or shrink. The chemical treatment of MARLITH ROOF INSULATION during its process of manufacture renders the slabs completely proof against attack by vermin, fungus, or dry rot.
- **IT HAS AMPLE STRENGTH.** Crushing strength tests carried out by the N.P.L. show that a load of 19 tons per sq. ft. is necessary to compress a standard slab to 50% of its normal thickness. This strength, coupled with the tough surface of MARLITH ROOF INSULATION, is ample to withstand normal handling and traffic conditions on the job.
- **IT'S LIGHT IN WEIGHT.** A square foot of MARLITH ROOF INSULATION, 1" thick, weighs only 3 lbs. This adds no great load to the roof structure and permits easy handling during application.
- **IT'S EASY TO APPLY.** Standard Roofing practice is followed in applying MARLITH ROOF INSULATION—no special technique is required.

The drawings below show Marlith applied to Marley Eagle Precast Beams. Marlith can, of course, be applied to any normal concrete roof construction.

Ogletorpe County Primary Junior School, Cranham, Essex.  
Architect: H. Connolly, F.R.I.B.A. (County Architect)  
Contractors: Thos. Bates & Sons Ltd., Romford, Essex.

"Builder" Photograph

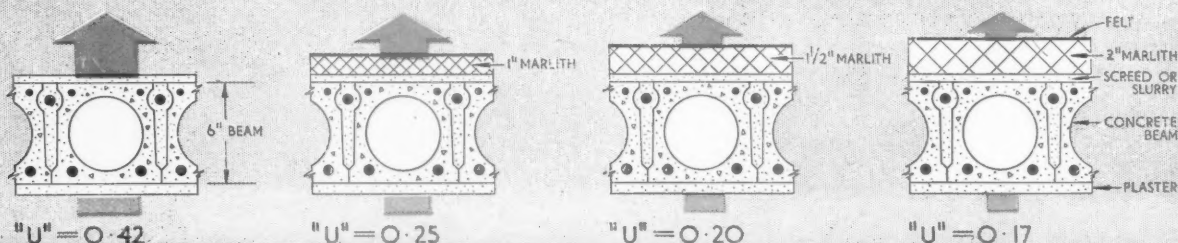
## REDUCE "U" VALUE AT A SAVING IN COST

Ogletorpe County Primary Junior School is one of many jobs on which Marlith Roof Insulation has been used. In this case it was laid to the upper surface of the roof, which was constructed of precast concrete beams.

The fixing of Marlith is easy, speedy and straightforward. No skilled labour is required. The surface of the concrete beams is covered with  $\frac{1}{2}$ " screed of sand and cement into which 1" Marlith Roof Insulation is laid. The whole surface is then screeded with a thin cement slurry and the roofing felt is applied in the usual manner. The insulation value of the precast beams alone is 0.47 and with felt screeds and plaster 0.42. This thermal transmittance "U" value is reduced immediately from 0.42 to 0.25 by the application of Marlith Roof Insulation. The thermal transmittance may be still further reduced, as indicated in the diagrams below, by the use of thicker Marlith. Apart from the immediate saving derived from the installation of a smaller heater plant and decreased fuel costs, Marlith Roof Insulation will minimise or prevent the formation of condensation.

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*Architect: Elie Mayorcas, Esq., F.R.I.B.A. A.A.Dip.(Hons.)*

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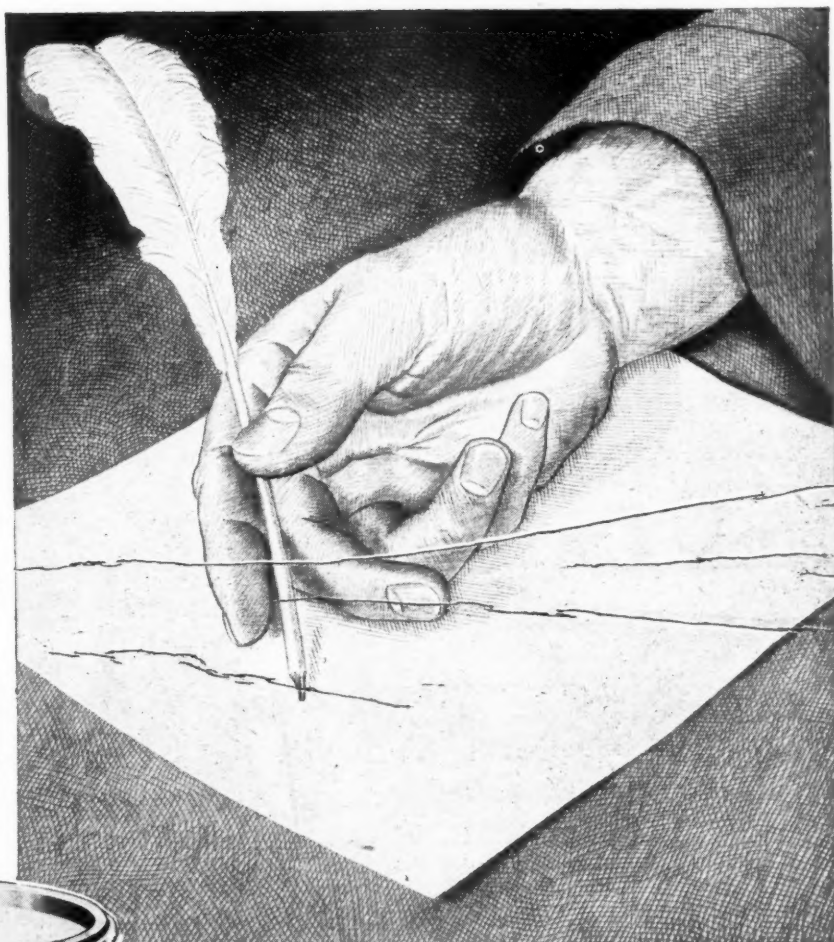
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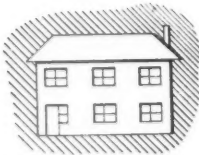
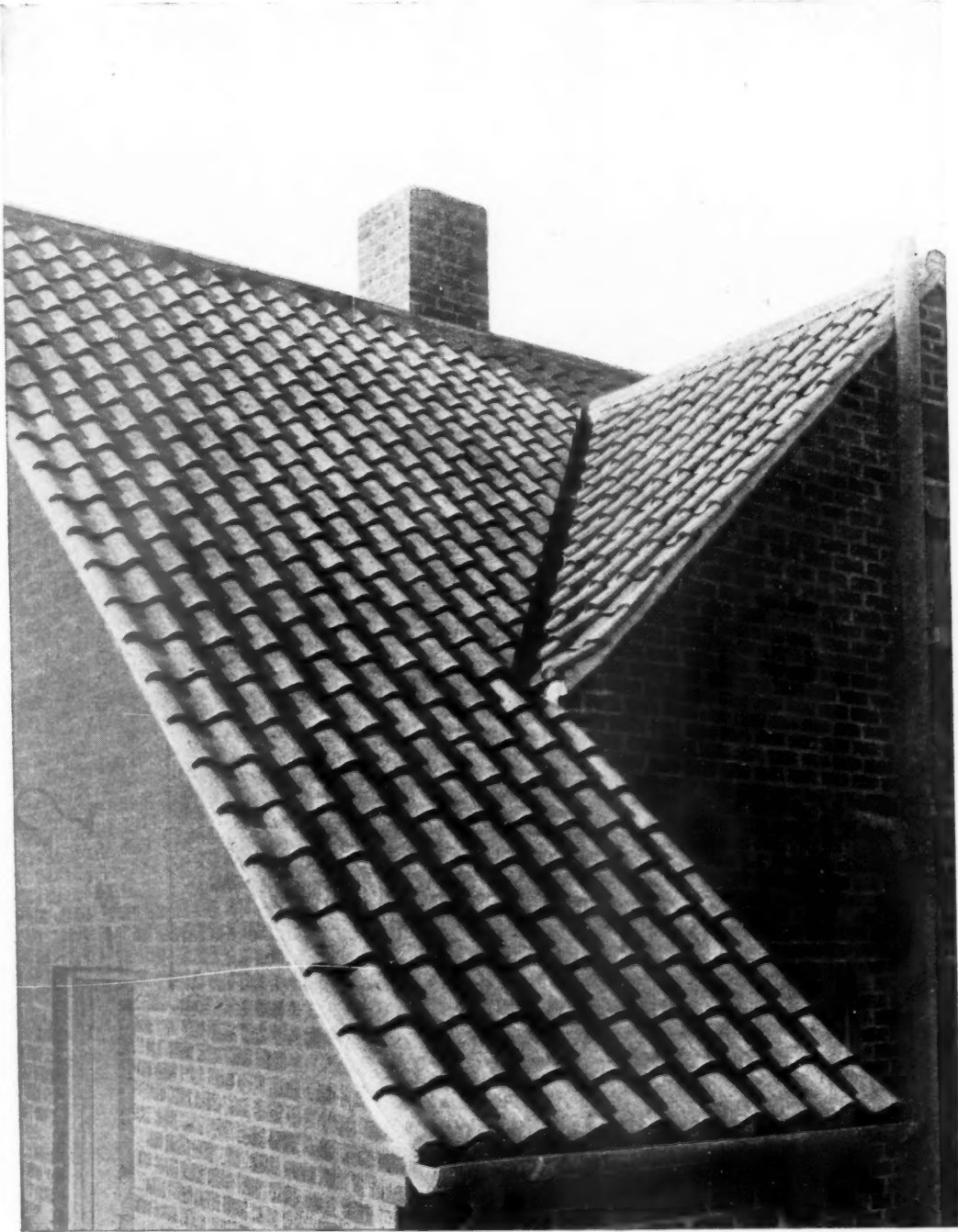
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B94/4/31



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Tiling Contractors: Jos. Hardgrave, Ltd., York.*

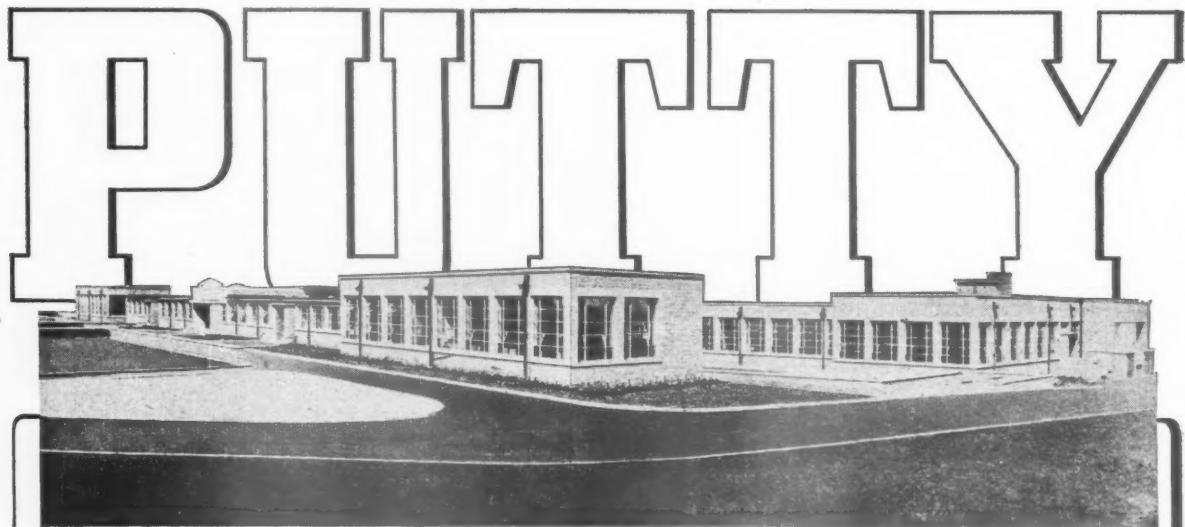
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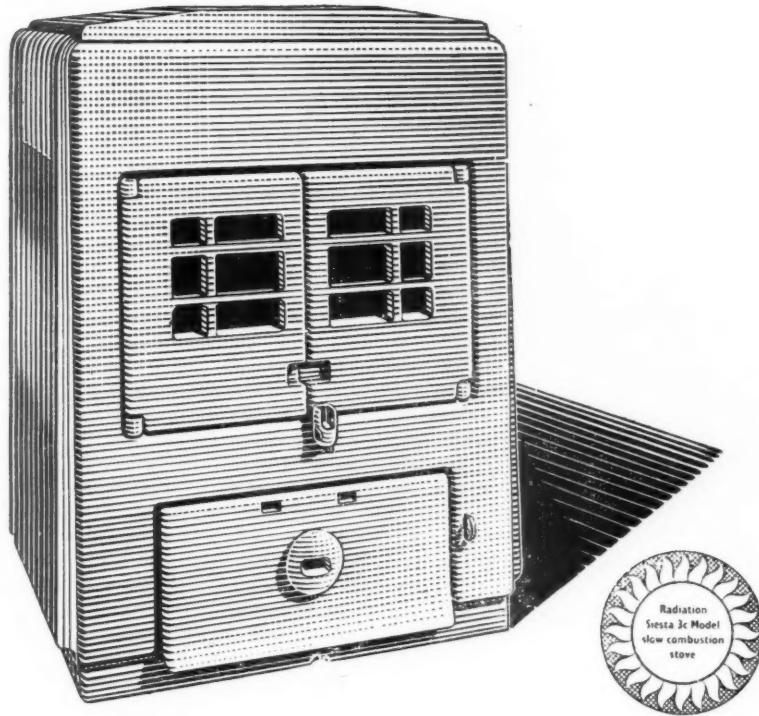
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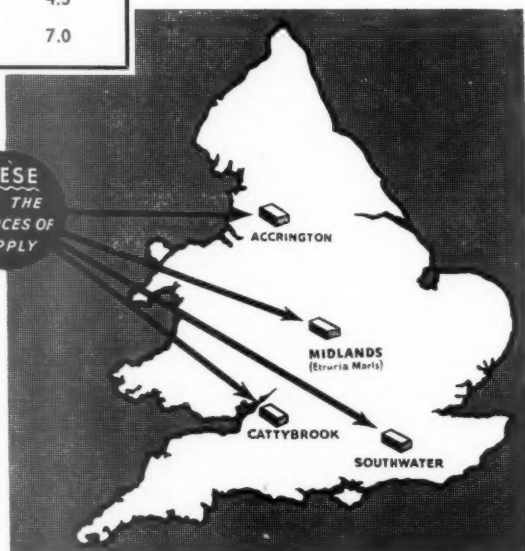
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CLASS OF BRICK	MINIMUM AVERAGE STRENGTH LB./SQ. IN.	MAXIMUM AVERAGE WATER ABSORPTION % BY WEIGHT (5 HOURS BOILING TEST)
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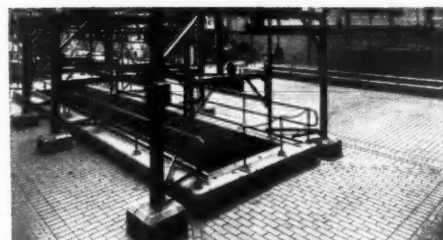
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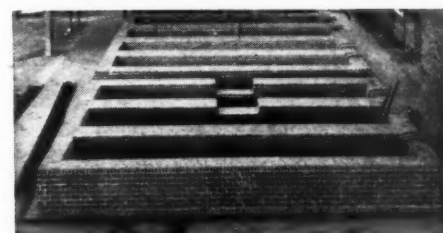
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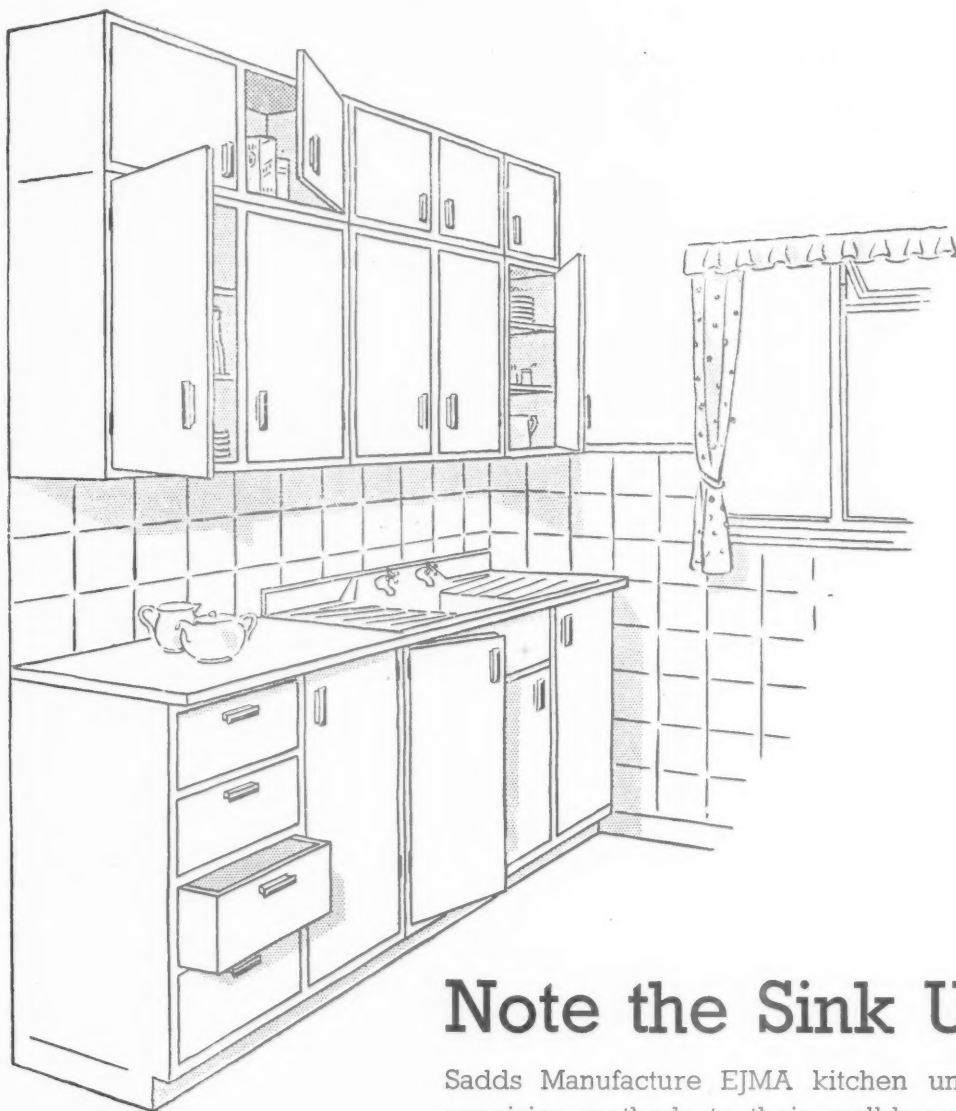
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*EJMA is the certification trade mark of the English Joinery Manufacturers' Association*

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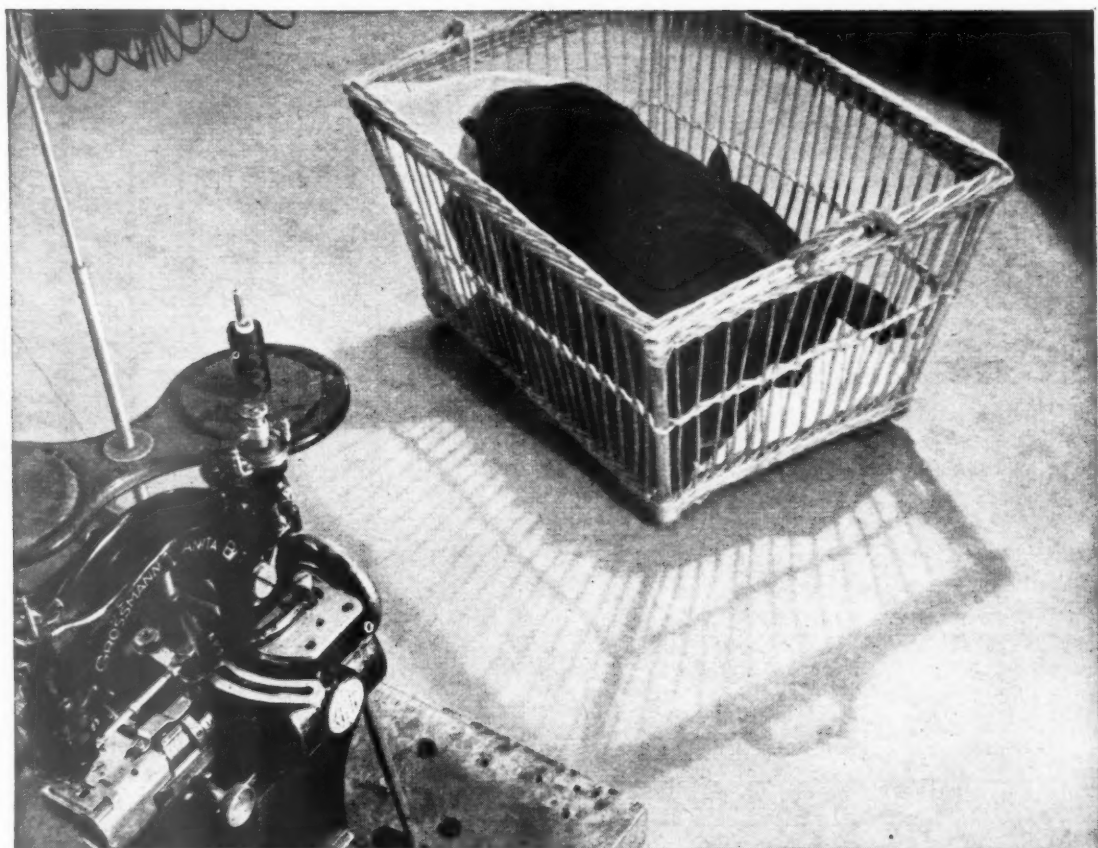
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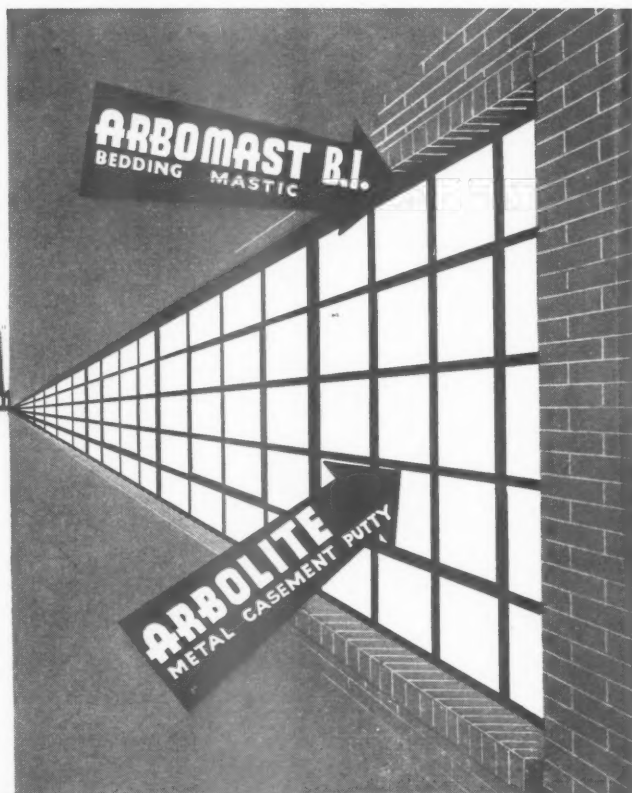
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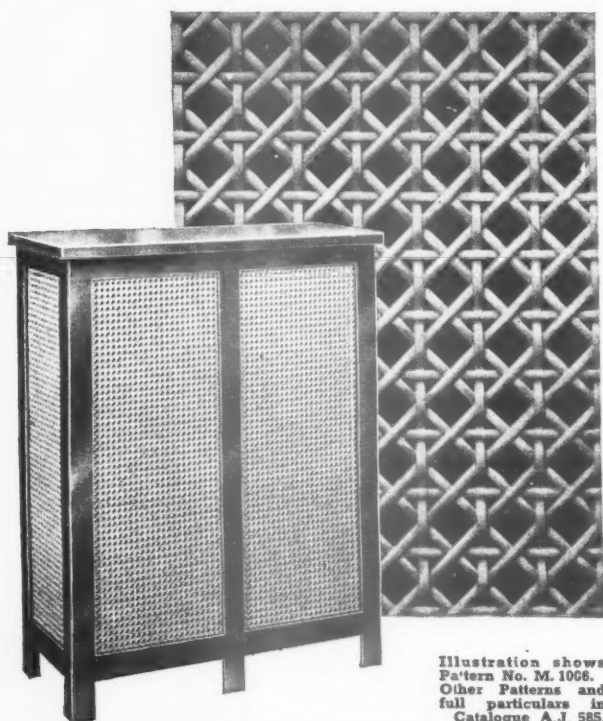


Illustration shows  
Pattern No. M. 1008.  
Other Patterns and  
full particulars in  
Catalogue A.J. 585.

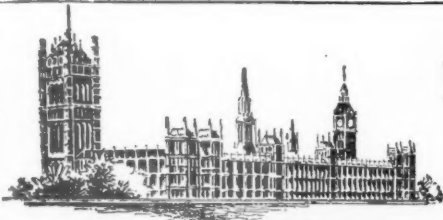
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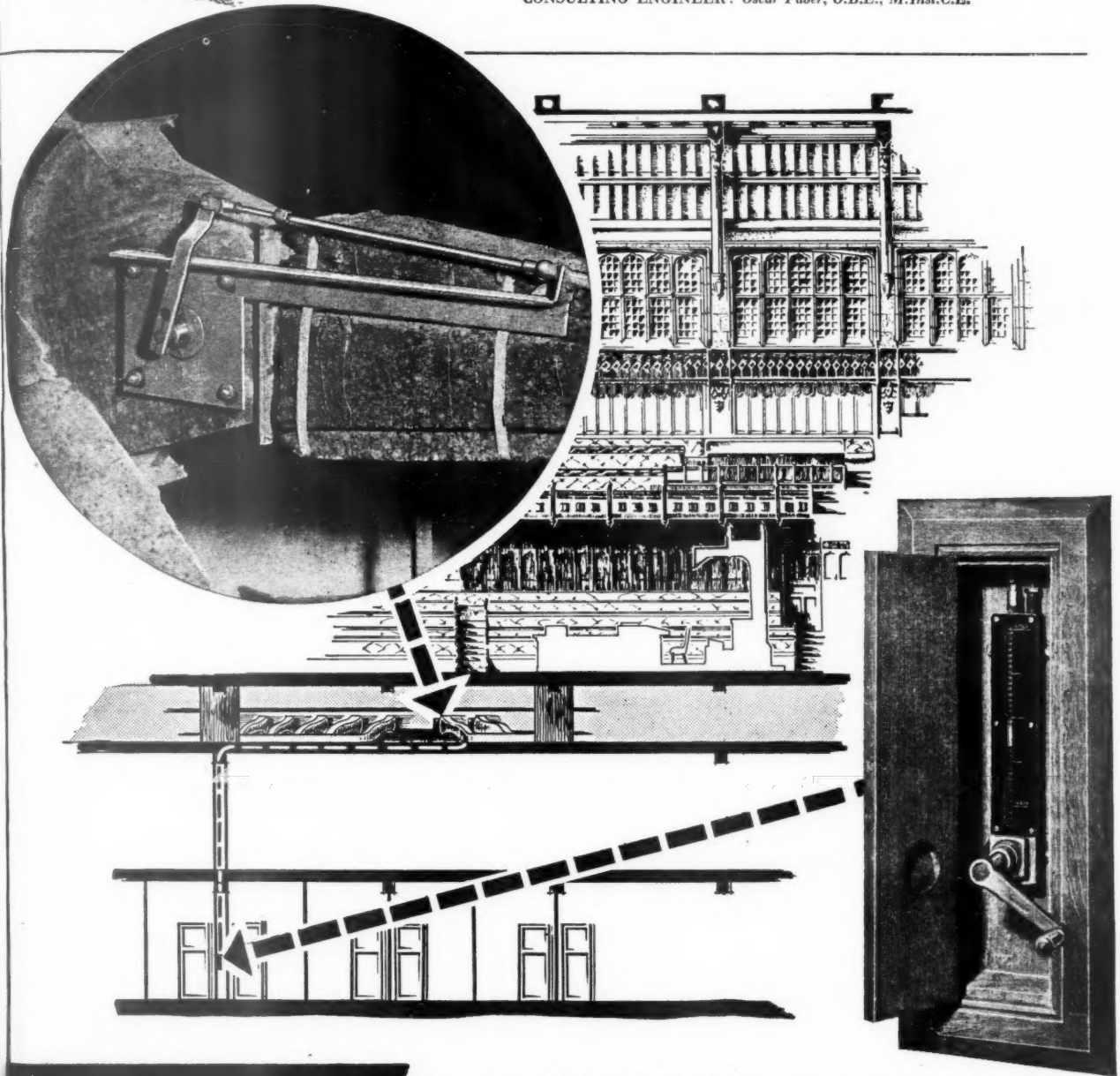
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CONTRACTORS: John Mowlem & Sons, Ltd.

CONSULTING ENGINEER: Oscar Faber, O.B.E., M.Inst.C.E.



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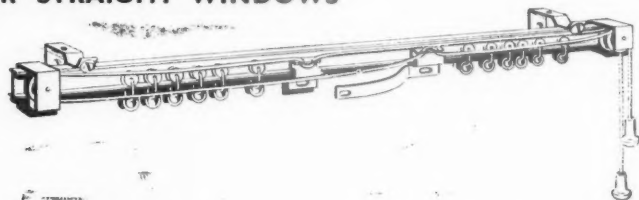
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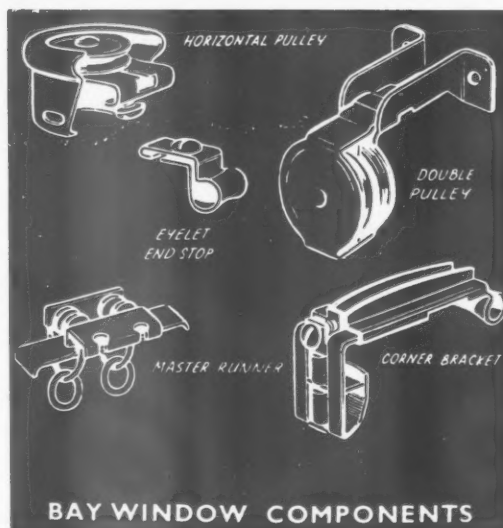
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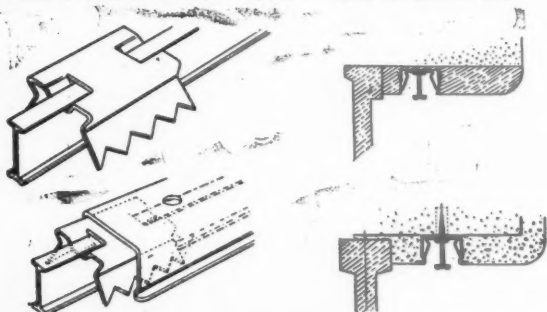
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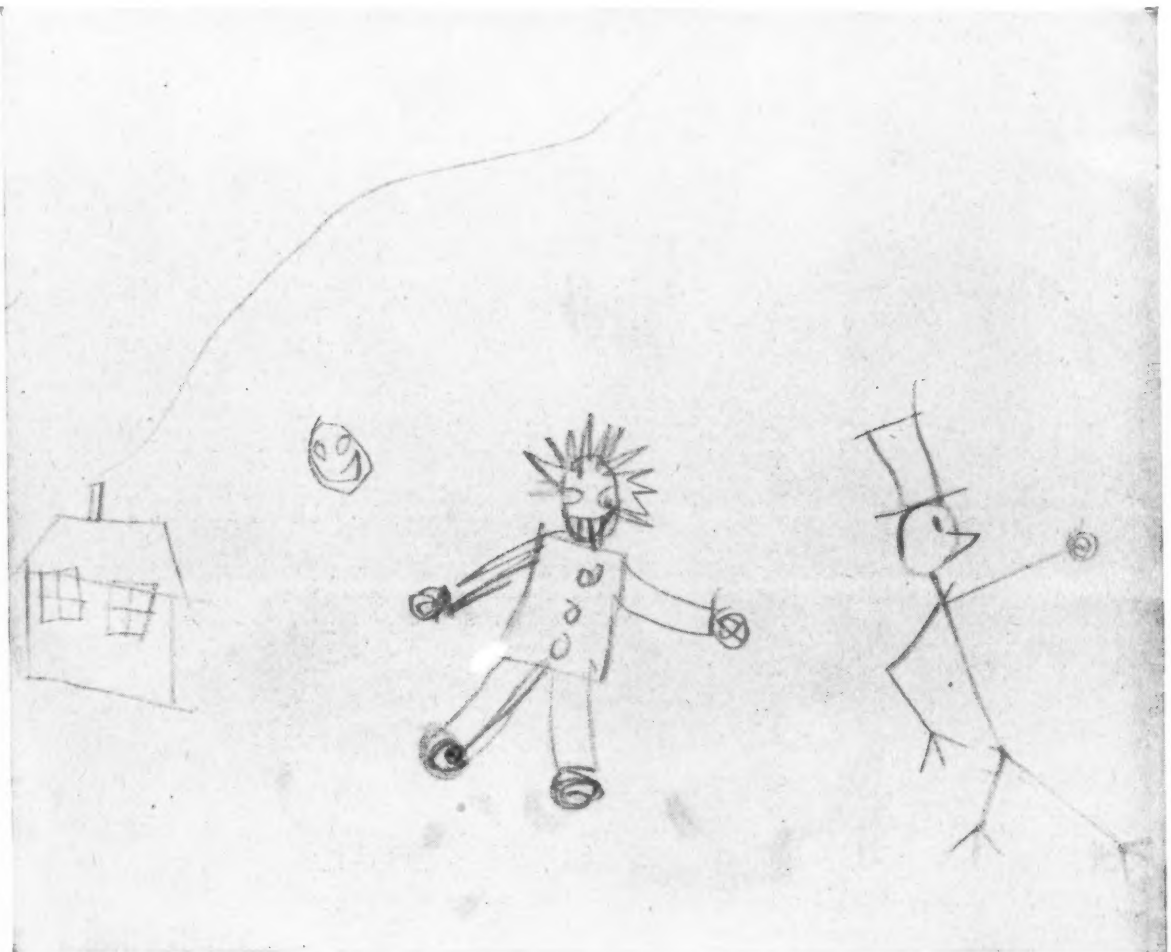
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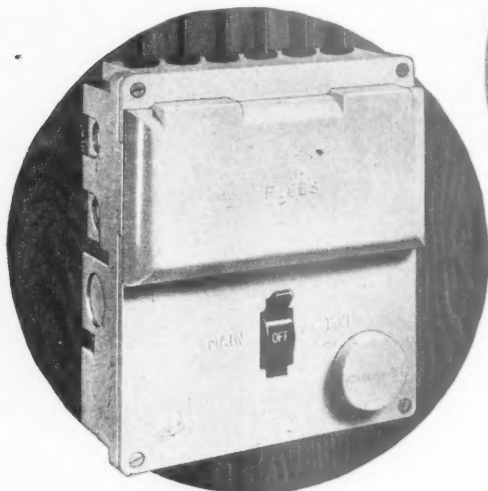
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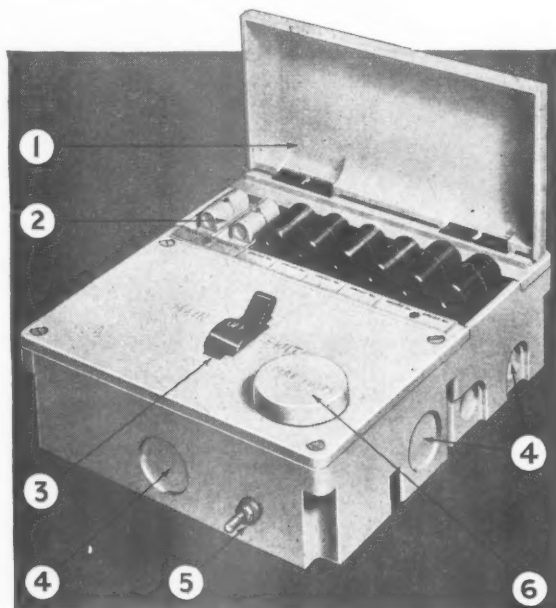
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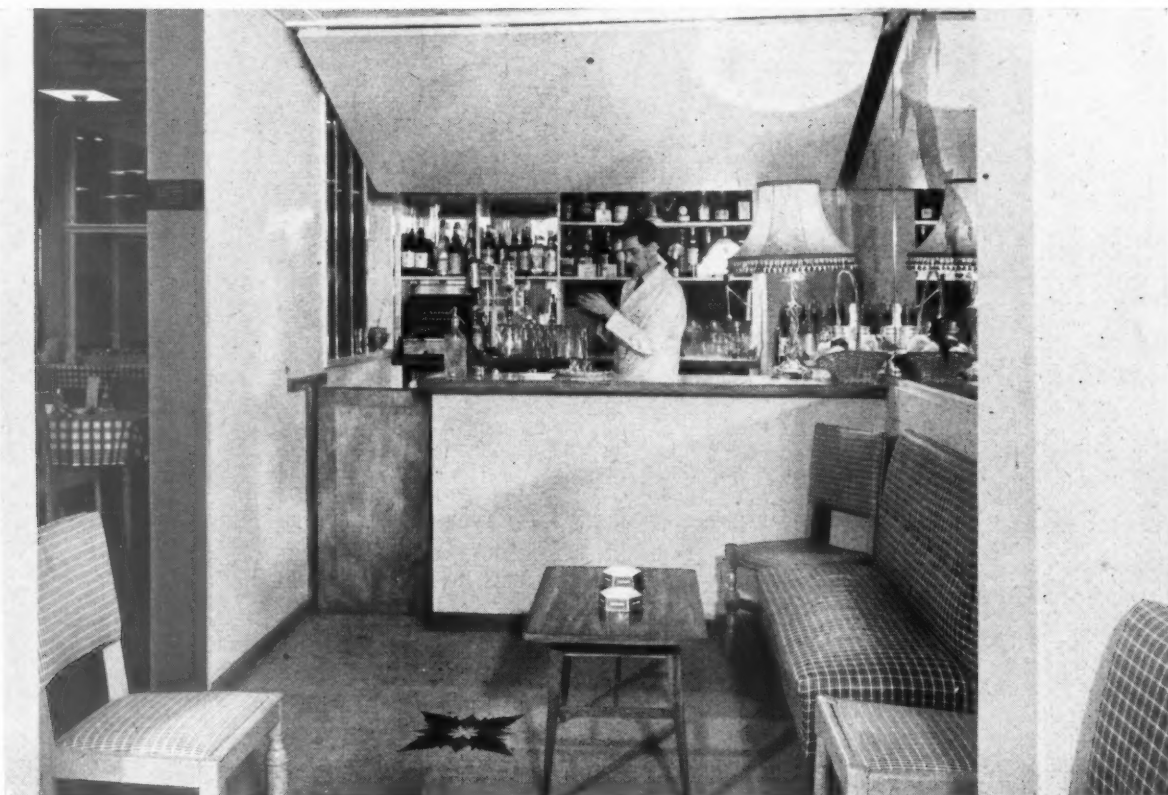
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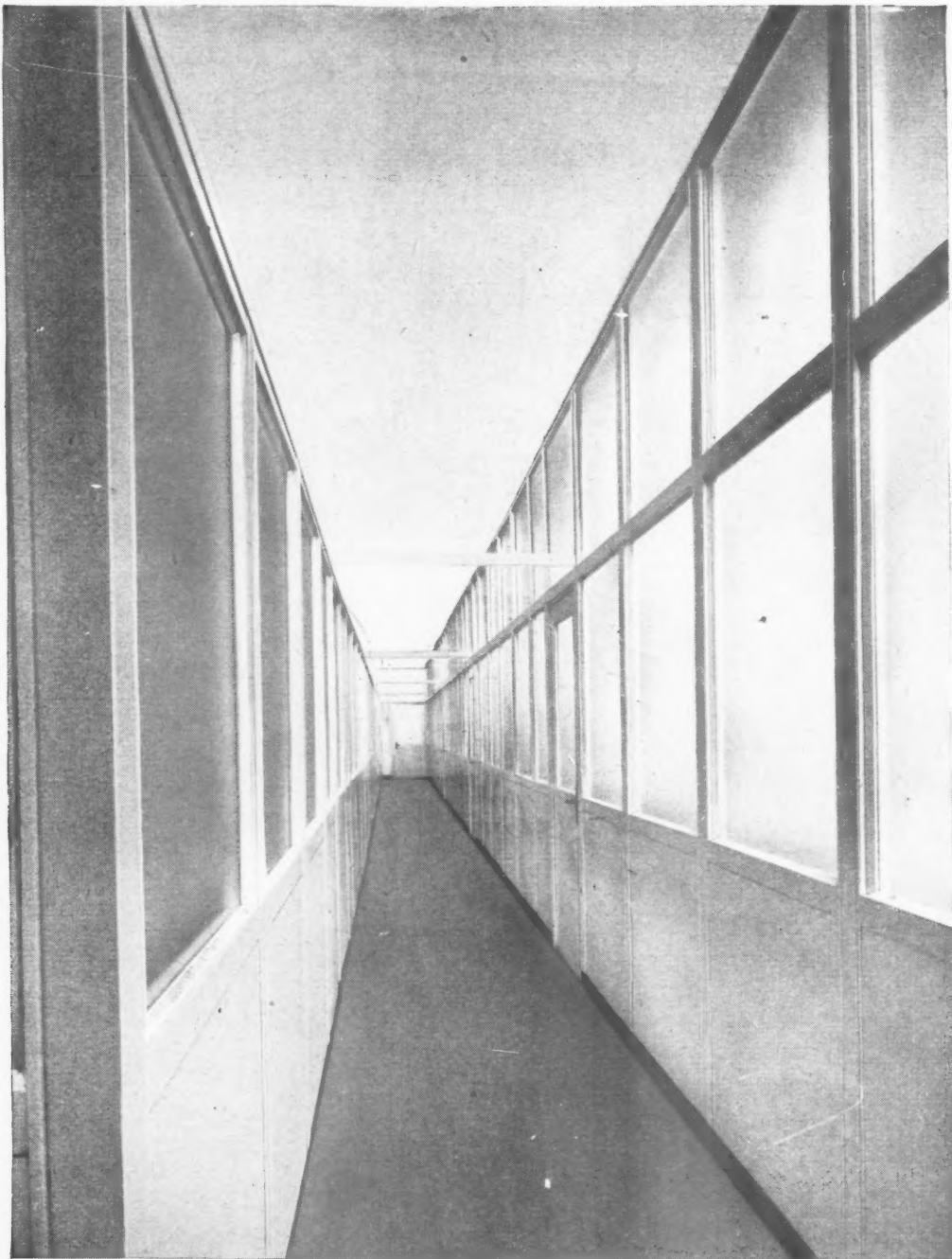
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THE ARCHITECTS' JOURNAL

No. 2944 2 AUGUST 1951 VOL 114

THE ARCHITECTS' JOURNAL for August 2, 1951 [121

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#### STUDENTS LEAD A FINE DANCE

England, I suppose, is about the only country in the world where a village fête could be declared open by the public executioner (I hope, by the way, that you did not miss the fascinating report in a Sunday newspaper of this unfamiliar week-end appointment for Mr. Pierpoint). But also equally strange was that recent event in the Royal Festival Hall—a first-rate concert of British music conducted (almost) throughout by the composer concerned. (Vaughan Williams, William Walton, Arnell, and, nearly, Benjamin Britten) followed by a dance in those well-known glittering foyers—the whole thing organized, not by Harold Holt, or the Arts Council, or the Musicians' Benevolent Fund, but by a committee of architectural students. It marked—and with what triumph!—the conclusion of the International Students' Con-

ference jointly organized by the Students' Committee of the AA and the Polytechnic Architectural Students' Society.

\*

It was a most exciting evening, from the first moment when Vaughan Williams shambled like a dearly-loved clockwork bear on to the rostrum, to the final storm of clapping at the end of Britten's Spring Symphony. Then dinner (memo. for architects designing glass-walled restaurants—to look in upon people eating in a well-appointed room is an attractive and inviting sight. To look out, when eating, through glass at surging crowds on different levels is less inviting and can be definitely tiresome) and afterwards, dancing. Extraordinary—and yet half-expected—to find how cosily that glossy and trimly shaped interior adapted itself like a well-cut suit to the new demands made upon it, and how effortlessly it wore the unmistakable look of an architects' dance. Was it the architects? or (more likely) their women—as handsome and gaily attired as the souvenir programmes?—or is it too fanciful to suppose that the building and those within it were naturally and easily well-disposed towards each other? Never mind—whatever the reason—I have never seen the Festival Hall look so unashamedly pleased with itself.

\*

The very warmest congratulations to those responsible for organizing a concert which was fully worthy of its place in an outstanding musical season, and for making us all feel proud to belong to a profession whose students are capable of such an achievement.

#### SOUND WITHOUT FURY

The conflicting opinions on the Festival Hall acoustics increase. The latest criticism comes in *The Monthly Letter*, which is issued by the EMG

Handmade Gramophone Company, of Newman Street. Since this is a good little magazine, produced for connoisseurs, giving honest and knowledgeable reviews of recordings of classical music, its opinions must at least be heard with respect.

\*

In discussing the records of the Ceremonial Opening Concert at the Royal Festival Hall on May 3, *The Monthly Letter* declares: "One day, if and when the acoustic experts have done something to Festival Hall, these records will remain as a monument to its effect on music when it was first built. The performances, of course, are all brilliant and thoroughly rehearsed. Meanwhile they are a grim reminder that scientists are not necessarily musical. We understand that later in the year a consensus of opinion among musicians may be made the basis of a complete overhaul of the building. We fervently hope that after that it will be possible (a) for orchestras to enjoy playing in it, (b) to hear what the basses are doing and (c) to hear extreme top and bass as part of the resonance—the actual reverberation period is nearly 2 seconds, but the whole range of the sound persists only for an infinitesimal period, with the result that it still sounds dead."

\*

Recently I sat in the back row below the gallery. I could hear every note. When Tom Jenkins played Mendelssohn's Concerto in E Minor, the pianissimo passages were as tender and moving as I have heard them anywhere. But when the martial theme rose in Tchaikovsky's Romeo and Juliet and the kettle drums began to throb, I felt frustrated. I wanted to shout: "Power and glory, now, boys. Make a din, for pity's sake." Was it Richard Austin's fault; was mine the



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# HOPE'S

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# WINDOWS & GLAZED BALUSTRADES

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one bad seat in the house; was I not feeling martial enough in spirit myself: has my taste been spoiled by the resounding reverberations of other halls—or is *The Monthly Letter* right?

#### A PILGRIMAGE TO PROGRESS

It was unfortunate that I should choose to walk down the Burgate when I arrived at Canterbury last week-end. I realize, of course, that even the first home of Christianity in England cannot avoid dealing in tourist trivia. And I am willing to recognize that there is a place for the Gothic toast rack. (I put mine there long ago.) But there is no place for a modern office building in the best cloister-style. Nevertheless, that is what is springing up in the Burgate. Who is responsible for it? I didn't bother to ask. I merely winced and minced off to the city's Festival exhibition.

What I found there took me by surprise. On a small bombed site the exhibition designers (L. H. Wilson, city architect, and students at the school of architecture, Canterbury College of Art) have told the city's history in an exciting way, making use of variations in level and in floor surfaces, and ingeniously incorporating existing features of the site into their theme. The tangled growth of wild plants has been used effectively, particularly in the first section of the exhibition, which is concerned with the Dark Ages. Further on, the remains of a Roman wall are seen beside a model of Roman Canterbury (photo on this page), while part of the wall of a 13th century Friary forms a background to the section on the history of Christianity in the city.

The "Garden of England," a courtyard bounded by tea and beer bars (disguised as whitewashed farm buildings), an oast-house ice-cream kiosk and hop gardens, is very effective, and its realism is marred only by "Eldorado" waste-paper baskets. From a quiet garden, adjoining this, one can hear the distant

*Left to right : F. R. Yerbury, the JOURNAL's consulting editor; V. V. Tatlock, the general advertisement manager of The Architectural Press, and Richard Dimpleby in "The Bride of Denmark," the firm's private pub, which was filmed last week for inclusion in a television programme "London Town"—to be broadcast at 8.45 p.m. tomorrow night. Astragal will be seen wearing his most enigmatic expression.*



*Above : "The Garden of England" (see also frontispiece on page 124), part of Canterbury's Festival exhibition on a bombed site, which Astragal writes about this week. Right : this view shows how wild growth has been incorporated in the exhibition, as well as existing features such as the remains of a Roman wall—seen beside a model of Roman Canterbury.*



sound of screaming sirens. These herald a display area (entered down air-raid shelter steps) dealing with the bombing of the city. And from this one emerges to learn of a future that is not merely materialistic in its promise. What a pity one has to go to Canterbury to find an

exhibition that is not dedicated exclusively to the self-sufficient scientific Planner. But then, I suppose the official attitude is: "everything in its proper place—Science on the South Bank and Religion in Canterbury, where no-one will be embarrassed by its presence."







## No Mad Whimsy

There's method in our Nomad whimsy. This photograph is not simply a reminder that August Bank Holiday looms ahead and that there's a fair on the heath, brother. It was taken at what may well prove to be the best provincial exhibition to be staged during the Festival season—at Canterbury. This exhibition (open until September) makes admirable use of the theories of townscape, and its designers, L. H. Wilson, city architect, and students at the local school

of architecture, have taken advantage of the natural features of the bombed site on which it is laid out. The remains of a Roman wall have been cleverly incorporated in the theme of the exhibition, as have the remains of a 13th century Friary's walls and the wild tangled growth that has sprung up since the bombing. This photograph shows a part of the "Garden of England," which is illustrated on page 123, together with another view and comments by ASTRAGAL.



But I digress. Let me advise all those who can to visit this exhibition, which will be illustrated fully in the JOURNAL next week. And don't miss the display case near the exit in which is framed a view of the cathedral. I am sorry the designers allow the visitor to hear a crackling record of a message from William Temple at this point. The late Archbishop's words are too noble to be delivered parrot-fashion, twice a minute. And by the way, you can see those cloister-style offices from here. But let me not end on a disgruntled note. Congratulations to all concerned.

#### AN INADEQUATE CATALOGUE

At one time and another I have handed out a fair number of bouquets to people connected with the South Bank exhibition. If I now present a ripe specimen of that seasonable fruit, the raspberry, to His Majesty's Stationery Office, it isn't because I am moved by malice towards that respected and generally efficient institution but simply because I believe that all should get their deserts.

The *Catalogue of Exhibits: South Bank Exhibition* is what I have against HMSO. Considering that its 188 pages of text are sandwiched between no less than 144 pages of advertisements, this seems to me remarkably highly priced at 10s. But at half the price it would remain a poor catalogue. Not only is it devoid of any index worthy of the name and of any cross-reference system whatsoever, but the information given is often quite inadequate. This is most glaringly so in the case of the numerous paintings and works of sculpture on the South Bank.

"Bas Relief: John Matthews" is an average sort of entry. (Actually it is a high relief; but let that pass.) Very rarely is any indication given of the subject of the work in question, and never by any chance are we told its size or whether it is executed in bronze or plaster, oils or tempera. This means that even on the spot you have to identify unsigned works by artists whose style you do not know by a process of elimination, while for record purposes such a catalogue is obviously useless. And why on earth not give the names of the architects in the sections on the buildings for which they were responsible? ASTRAGAL

## Technical Editor

### COST OF HANDLING MATERIALS

THE cost of handling materials on the site is an important factor in determining the total cost of a building.

Recently, the Anglo-American Council on Productivity published a report on "Materials Handling in Industry" (reviewed in the Information Centre, 28.14 : 19.7.51), in which it was pointed out that "in the average factory, of every £1 paid out, 5s. goes to the cost of handling things and moving them around." We dread to think what the comparative figure for the building industry might be!

The slab- (and wall-) lifting system which, as a result of O'Neil Ford's visit to this country, has aroused such great interest amongst our architects and engineers, represents one approach to solving this problem. Casting floors and walls on the ground and raising them by means of hydraulic jacks can eliminate much man-handling of concrete, reinforcement, shuttering, scaffolding, etc.

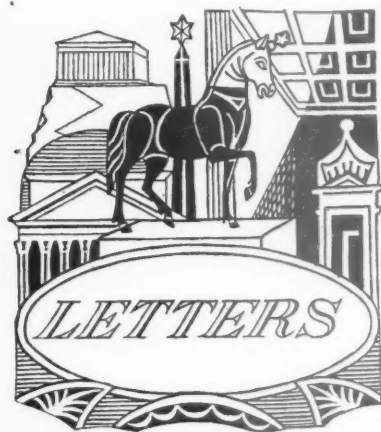
An alternative approach to the problem, the development of which has taken place parallel to that of slab lifting, and which has already had considerable success in Europe, is that of precasting fairly large concrete frame, wall and floor units (but not entire walls or floors) and making extensive use of various types of crane in order to hoist these units into position. This can also save a great deal of materials handling, particularly if the units are precast on the site.

It is obvious that the success of such a system depends, to a large extent, on using the right type of crane for the job. Last month we published an article describing a crane used for house building by traditional methods; in this issue (on pages 143 to 146) J. F. Eden describes a number of continental cranes of various sizes, but all suitable and, in fact, actually used for hoisting precast concrete elements.

Professor Bernal, in his recent lecture on building methods in the USSR (see the JOURNAL for July 5, 1951), explained how this method of building is used extensively in the Soviet Union, even for buildings up to 14 storeys in height. The same is true in many other countries of both East and West Europe. In this country, too, there have been some good examples of the use of precast concrete; particularly worthy of note is the new Technical College at Hatfield (designed by Easton and Robertson, with F. J. Samuely as consulting engineer, and still under construction), where two-storey precast concrete frames, 40 ft. high, have been used, in addition to a variety of smaller precast beams, columns and floor units. But our progress in this field is hampered by a lack of suitable cranes. We have imported some from France and Germany, and at least one British firm intends to manufacture mobile tower cranes here, but more are needed and it is hoped that other manufacturers will enter this field.

Meanwhile, in addition to the cranes themselves, much information is required for architects, engineers and contractors

on how to design and organise a job so as to use cranes to the best advantage. It is good to know that both the MOW and the Building Operations Research Unit of BRS are studying this question.



J. S. Cousins, A.R.I.B.A.

"A Builder"

### Heavenly Mansions

SIR,—One grieves to read that Mr. D. Bell Scott, in your issue of July 19, feels Le Corbusier's town planning conceptions an affront to the dignity of the human spirit: his writings suggest his primary concern to be its release from the tyranny of the physical and mechanical restriction of the modern city.

One may share Mr. Scott's ideal of a terrace house and garden without agreeing that it is the solution to the congestion of London, or that Lansbury is of a scale or character in keeping with the world's largest city.

London, although a monster, does suckle some 10 million of us at her breast, and for that we may love her. We live in her grip to share in the concentration of amenities that her very size affords. We seek identity with the heart of the city.

Real estate values, the cash register of popular demand in environment, nowhere exceeds the exclusive property strip fringing Hyde Park, and proportionately the lesser parks and gardens. Here Le Corbusier's theories have been in rudimentary operation for a century; landscape and amenity with high population density. In close and up high is the obvious solution.

In the past, religious impulse caused men to build into the sky slender elegant pinnacles of stone and thus to a grace, beauty and economy of construction that our incomparably greater technical resources have yet to emulate. Are we afraid to raise our physical bodies up towards the sun and clear air to which, previously, we so well expressed the symbolised projection of our souls?

The human being today needs the emotional release of the architect's glass faced towers to the sky. The UN Secretariat points the way. The discipline of repetition in fenestration is not a lack of imagination. The Georgian window, the Swedish window and

the UN window are the elements in architecture that are in sympathy with the leaves of a tree. We strive to be original when we need only the intelligent aesthetic application of technical precision to bring us into harmony with nature.

The human being is first an individual, but that should not prevent his expressing collectively his identity with society and thereby increase his own physical stature. His own body is the result of a collective expression of individual living cells. Much of our present townscape is the garbage of our collective imagination: it is sometimes pushed into tidy heaps by the more enlightened of our local authorities.

J. S. COUSINS.

London.

### The Outlook for Building and Civil Engineering

SIR,—From the builder's point of view there are some objections to Professor Ian Bowen's article "The Outlook for Building and Civil Engineering" in your issue dated July 5. Professor Bowen suggests that there is now a tendency in the industry to take advantage of the present economic situation by making "inflationary profits." He makes no mention, however, of the increases in labour costs and plant and equipment replacements, nor to the need for the industry to make provision for covering the Chancellor's decision to suspend, as from April 6, 1952, initial allowances on plant and machinery. An interim report issued by the NFBTE points out that this decision cannot fail to discourage the further mechanization of the industry, a development which the Government themselves claim is vital to improve productivity.

Professor Bowen also tries to give the impression that it is the building employers who are responsible for keeping costs down at the expense of standards. Surely the architect also has a responsibility in this respect—both in the design stage and in specifying adequate standards of finish. Initial decisions on these matters are made by the architect and/or the building owner. The building employer does his best to ensure that the work is carried out accordingly but it should be emphasized that the primary responsibility regarding standards of design, construction and finish do not rest with him.

With regard to the suggestion of inflationary profits, I doubt myself whether any house-builders are making profits at all on houses erected for Local Authorities throughout the country, and this is proved officially in the Girdwood Committee's two reports on the cost of house building when they state that the general level of contractors' profits is small and reasonable.

There are also other facts which have to be borne in mind today. Building prices are three times as high as they were in 1939; that means builders have to provide for financing their contracts with three times as much capital. Furthermore, due to the fact that the productivity of the workmen has not exceeded—according to the Working Party Report—75 per cent. of pre-war production, the number of man-hours in the industry is reduced to three-quarters of the total that we had in 1939. This means that all the contracts in the country are being executed with an unbalanced labour force and the majority of jobs are no more than half-staffed. Consequently where a job was done in six or twelve months before the

war, it now takes eighteen, or three years, to do. This fact alone means that if a builder had £20,000 to spend in 1939, in order to keep his jobs going today, and because they all take three times as long, he has to expend three times the amount of capital investment on scaffolding and machinery.

It might surprise Professor Bowen to learn that in our own firm where we are keeping strict statistics—and I am sure this applies also to other firms—the whole of our personnel changes every thirteen weeks. We do not discharge the men; they leave us weekly to work for other contractors in the main who are paying plus rates without in any way linking wages with output. The loss of production caused by this constant change of workmen is really enormous, and I personally cannot see how this can be stopped in a country with full employment. The defence programme will not in any way assist this situation, but will make it considerably worse.

"A BUILDER."

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



### COMPETITION

#### Housing at Finsbury

The Corporation of London invites architects to submit designs in competition for a housing scheme on a site in Golden Lane, Finsbury, E.C. The awards will be:—1,000 guineas, 700 guineas, 500 guineas and 300 guineas. The assessor will be Donald H. McMorran. Designs must reach the Town Clerk, Corporation of London, 55-61, Moorgate, E.C.2, not later than 5 p.m. on January 31, 1952. Questions must be received not later than August 31 next. Conditions are available on receipt of a deposit of two guineas.

### LCC

#### Agreement Reached on Slum Clearance Programme

Agreement has been reached, in principle, between the LCC and the Metropolitan Boroughs Standing Joint Committee on proposals for the general resumption of slum clearance in London as part of a co-ordinated plan for the provision of housing accommodation. These proposals were considered by the Council at its meeting on Tuesday last.

On the basis of a survey by the borough councils of slum clearance problems in their boroughs, the LCC's housing committee has

years, approved, in principle, the clearance, during the next five years, in conjunction with the borough councils, of some 300 areas. These areas contain over 10,000 houses which are unfit for habitation. As well as demolishing slum houses, it will be necessary to clear some 2,000 other properties so that sites may be redeveloped satisfactorily. The total number of dwellings affected will be over 12,000.

These proposals are in addition to the LCC's preliminary programme announced in March, 1949, for the clearance of about 1,500 slum houses in priority areas in Stepney, Camberwell, Fulham, Bethnal Green and Southwark. It is estimated that the number of families needing to be rehoused from the total of slum properties and added dwellings to be cleared under both programmes will be about 20,000.

The Minister of Local Government and Planning has approved the clearance of up to 3,000 houses a year during the next five years, subject to new dwellings provided for displaced families being regarded as part of the total building allocations of the Council and the metropolitan borough councils.

Discussion with the Standing Joint Committee and the individual borough councils are continuing with the object of reaching agreement on individual sites, clearance priorities and allocation of actual clearance work as between the LCC and the borough councils. Some borough councils will have difficulty in carrying out their share of the programme because of their inability to re-house, within their respective boroughs, all the families displaced by their slum clearance activities. To help them to play their full part in the programme, the LCC's housing committee has decided to offer rehousing accommodation to families nominated by borough councils from small areas of not more than ten houses cleared by the borough councils under the programme. In cases of real difficulty the committee will consider applications from the borough councils for assistance in rehousing families from larger clearance areas. This assistance to the borough councils will be separate from the existing arrangements under which 25 per cent. of the new dwellings constructed by the LCC are allocated to families on the borough council waiting lists.

The Metropolitan Boroughs Standing Joint Committee have already decided on behalf of their constituent Councils to agree in principle to slum clearance in London being dealt with on the basis of 3,000 houses a year for the next five years and to accept the LCC's offer to help the borough councils in meeting their rehousing problems.

The Standing Joint Committee has also asked the borough councils to indicate approval of programme for the first of the five years without delay and to consider and discuss with the LCC's officers, at an early date, the general programme for 1952-55.

Slum clearance schemes take time to get into their stride. From the date of "representation" as a clearance area, it is usually about 18 months before powers are confirmed and acquisition and clearance can begin; but the local authorities will do everything in their power to step up slum clearance to the extent now proposed.

## RETIREMENT

### Principal Leaves Planning School

The Board of Management of the School of Planning and Research for Regional Development announces with great regret the retirement, at the end of 1951, of the principal of the school, E. A. A. Rowse.

The school was founded by Mr. Rowse as a department of the AA in 1935 when he was principal of the AA School of Archi-

*Brenda Colvin has been elected President of the Institute of Landscape Architects. She is the first woman to have held this office, and succeeds Dr. Thomas Sharp, a foundation member of the Institute. Miss Colvin started her career by studying horticulture at Swanley (there were no courses in landscape architecture in the 20's) and architecture, for a short period, at the Regent Street Polytechnic. Today she is consultant to the planning department for Derbyshire, where she is concerned with the treatment of quarries and surface mining. She is also landscape consultant for the new town of East Kilbride, where she advocates both open and fenced gardens for terraced houses. (Miss Colvin dislikes including flowering cherries and other pretty-pretty trees, as well as suburban gardens of the pink may-laburnum-lilac variety.) She aims to establish more firmly the status of the Institute.*



ecture, and became an independent institution under his direction in 1938. During the war Mr. Rowse served in the Army in the Middle and far East, but returned to resume his former position at the school of planning in 1948.

The Board proposes in due course to appoint a successor to Mr. Rowse.

## CEMENT

### Plea for More Delivery by Bulk

1-cwt. paper bags, which cost 1½d. each before the war, now cost 1s. and are also in short supply.

In America 30 per cent. of the cement

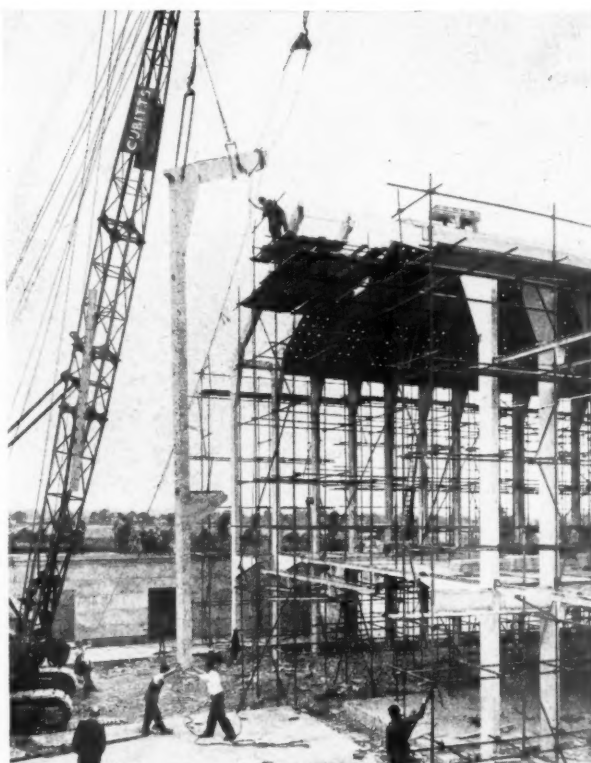
used is delivered in bulk but, in this country, the figure is only 10 per cent.

George Earle, chairman of the Blue Circle Group, has asked building and civil engineering contractors to purchase cement, wherever possible, in bulk, i.e., in 5-cwt. returnable sacks, or loose, in lorry loads.

### New Works Producing Over 1,000 Tons Per Day

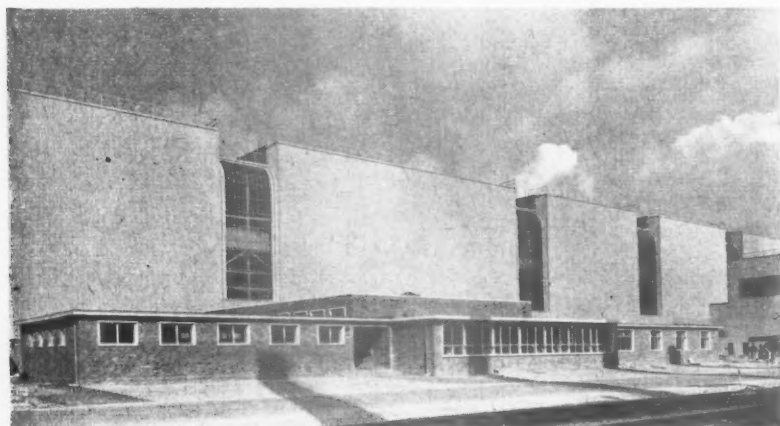
The Blue Circle's new cement works at Shoreham, Sussex, is now on full production. Built to replace a small works, which was on the site for 50 years, the new plant is probably the most modern in the world. Designed by the engineering staff of the Blue Circle Group, with G. A. Jellicoe as consulting architect and Oscar Faber and

*The last of the 40-ft. high pre-cast concrete half frames for the assembly hall and dining hall block of a new technical college at Hatfield being hoisted into position. (Architects: Easton and Robertson; consulting engineer: F. J. Samuely.)*





# ABBEY STEEL WORKS, PORT TALBOT, S. WALES



*The opening of the new rolling mills for the Steel Company of Wales, Ltd., at Margam, Port Talbot, by the Chancellor of the Exchequer, took place on July 17, 1951. The photograph above shows the pit side amenities block with the melting shop in the background. The works, for which Sir Percy Thomas & Son were consulting architects, will be illustrated more fully in our pages in the near future.*

## OLD PEOPLE'S HOME, PLUMSTEAD, LONDON, S.E.18



*This Old People's Home was opened by the Minister of Health on July 20. The photograph above shows the large dining room on the right, seen from the garden. Below: one of the ground floor sitting rooms. The home, which is designed by W. J. Durnford and A. E. Miller of the LCC Architects' Department, houses 92 people.*



Partners as consulting engineers, it has taken 4 years to build, cost £2½ million, has an output of 350,000 tons per year and a storage capacity in its 12 silos of 12,500 tons.

The process of cement manufacture is, of course, continuous and three eight-hour shifts are worked. But production is so highly mechanized that the total works staff is less than 200.

Special dust-prevention plant has been installed at a cost of £130,000 and this, coupled with the extensive use of electricity, has resulted in a high degree of cleanliness throughout the works.

The works are sited in the quarry from which came the chalk used by the old works, so that, from a distance, little can be seen but the tall chimneys.

## SPACE-SAVING

### *United Nations' Report*

The arrangement of a bedroom to provide a place where members of a household can work or read in quiet, or where children can play without disturbing the rest of the family, is suggested in a recent report as an economic means of meeting the demand for additional living space without increasing the size of dwellings.

Other suggestions made in this report, which has been distributed to governments by the United Nations Commission for Europe in Geneva, include the more open planning of the ground floor living room and hall.

It is suggested that to reduce the cost of building, consideration shall be given to the possibilities of omitting basements, reducing ceiling heights, grouping houses in pairs or terraces, standardizing common components such as kitchen fixtures, simplifying staircases and devoting particular attention to the quality of design.

The report was prepared by Maurice B. Blackshaw (United Kingdom), a rapporteur of the ECE housing sub-committee. The report is part of ECE work in housing which aims at obtaining maximum social and economic benefits from the money, materials and labour available for building in Europe.

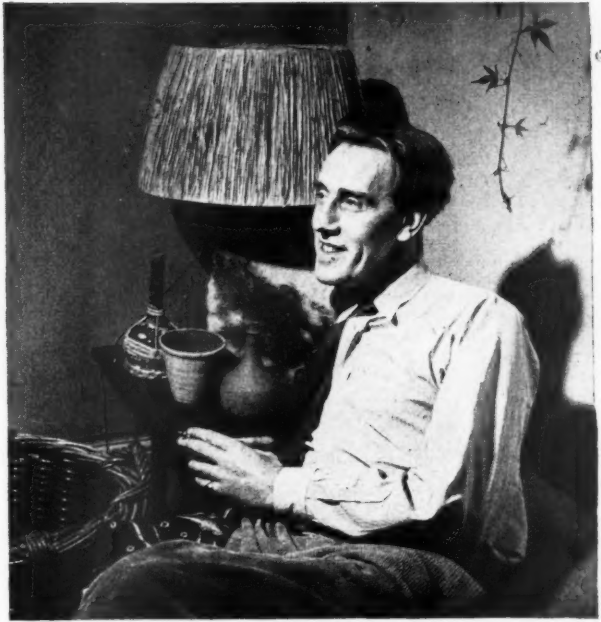
A Press hand-out from the European Office of the United Nations reads as follows:—

The report is a comparative study of the utilization of space in current types of dwellings actually built in fourteen European countries in the years 1948 and 1949. It presents plans of the dwellings with calculations of gross and net areas and of the areas used for various purposes such as living, service facilities, circulation and storage. Information for the study was supplied by Austria, Belgium, Denmark, Finland, France, Greece, Ireland, Italy, the Netherlands, Norway, Poland, Sweden, Switzerland and the United Kingdom (with separate data for England, Northern Ireland and Scotland).

The data indicates that there is a high degree of consistency in the basic requirements of dwellings as far apart as the Arctic Circle and the shores of the Mediterranean Sea. The main differences among the dwellings relate to the allocation of space for various purposes, such as eating and sleeping, and to the internal disposition of the rooms and their size. This pilot study compares three types of dwelling units which are, with one or two exceptions, common throughout most countries of Europe; a dwelling with two bedrooms contained on one floor, either in the form of a flat or a bungalow; a two-storey house with two bedrooms; and a two-storey house with three bedrooms.

While the plans in general indicate little departure from a rather uniform pattern, a





# **SOUTH BANK EXHIBITION ARCHITECTS: NO. 14: ARCON GROUP**

*Above, A. M. Gear:—Trained, Nottingham University School of Architecture, 1929-31. Worked with T. Cecil Howitt, 1931-37. With N. F. Cachemaille-Day, London, 1937. With Professor Holford and Sir Alexander Gibb and Partners during war. Joined Arcon in 1943, when firm was founded. Became a partner, 1946. Above, right, Rodney Thomas:—Trained School of Architecture, University College, London, 1919-22. Private practice, 1931-39. Partnership with Raglan Squire, 1941-43. In charge of Seymour Walk office and workshop, unit responsible for Transport Pavilion, South Bank. Right, Edric Neel:—One of founder members. Trained at Cambridge University School of Architecture. BA, 1931. MA, 1938. ARIBA, 1938. FRIBA, 1950. Associate of TPI, 1942. With Welles Coates, 1935-37. Private practice, 1937-39. Architectural staff of CCA, 1939. Member of Board of Association for Planning and Regional Reconstruction and of School of Planning, 1945-49.*



notable exception occurs in the case of Greece. The Greek Government reported to ECE that, to meet the extreme housing shortage, there had been developed in Greece a type of "expandable" dwelling commencing with a "nucleus" which, while admittedly being sub-standard, provides a family with shelter and certain minimum requirements. The "nucleus" is planned so as to be capable of being enlarged when physical and economic resources permit, and the "nucleus" thus becomes the central core of the future dwelling.

The author of the report observes that the plans of the dwellings reveal little evidence that bedrooms have been considered as anything else but single purpose rooms. Thus a very substantial proportion of living space is used only during the night. The author believes that there is much to commend the

arrangement of the bedroom so that it would relieve the living room of congestion at certain periods of the day, and particularly in the evening. This arrangement could satisfy a need which otherwise might have to be met by providing on the main floor extra space in the form of a small sitting room or parlour. It is one step which the author suggests for helping to provide sufficient space with a dwelling and so to dispose it that a family in the lower income group may live in healthy and reasonably comfortable conditions.

N.B.—The report has been made available to governments for distribution within their countries at their discretion. There are no copies available for individuals. An illustrated article on this report will appear in due course in the Technical Section of the JOURNAL.

## **PIMLICO**

### *Housing Estate Named*

The Duchess of Marlborough formerly opened the Westminster City Council's housing estate at Pimlico last week and named it Churchill Gardens.

## **GOLF**

### *Building Alliance Society*

The first summer meeting of the Society was held on the courses of the Moor Park Golf Club on July 17. The "Bunter" Griffith Memorial Trophy was won by J. C. Brown with a net score of 67. Other

results: scratch prize, J. Kirkham (74); 1st senior singles, L. Trower (68); 2nd senior singles, N. Holt (72). (2nd prize won after tie with J. Kirkham and B. Bigwood.) 1st junior singles, J. C. Brown (67); 2nd junior singles, T. J. Barnes (73). 1st fourball four-somes against bogey, R. Kirkby & T. J. Barnes (8 up). 2nd fourball foursomes against bogey, S. Johnson & J. W. Mac-Grégor (6 up). (2nd prize won after tie with N. Holt and J. Kirkham.)

Members of the society are asked to note that the annual dinner at the Trocadero Restaurant will be held on Friday, November 30 and not on November 16 as previously arranged.

## CRICKET

### Press v NFBTE

The annual match between the Vitruvians—the architectural and technical Press—(captain, I. M. Leslie) and the NFBTE (captain, George F. Parker) was played on the Blue Circle ground, Snarebrook, Essex, on July 22, by permission of the Cement Marketing Company. The match was drawn, the Federation scoring 194 for two wickets declared; the Vitruvians replying with 77 for nine.

### RIBA v Vitruvians

The match, played on the AA ground at Elstree on July 18, was won by the RIBA by 187 runs to 180.

## DIARY

**AA Annual Exhibition of School Work.** At 34, Bedford Square. Weekdays, 10 a.m. to 6 p.m. Saturdays, 10 a.m. to 2 p.m.

UNTIL AUGUST 10

**Exhibition of Fabrics from Overseas.** At the Cotton Board's Colour, Design and Style Centre, 19, York Street, Manchester. Weekdays (except Saturdays) 10 a.m. to 5 p.m. Saturdays, 10 a.m. to 12 noon.

UNTIL AUGUST 11

**The Susan Lawrence School.** At Lansbury, Poplar. Open to public. Weekdays, 12 noon to 8 p.m. Sundays 12.30 p.m. to 8 p.m.

UNTIL AUGUST 23

**Growth and Form.** Exhibition based on book by D'Arcy Wentworth. At ICA, 17-18, Dover Street, W.1. Weekdays, 10 a.m. to 6 p.m.

UNTIL AUGUST 31

**Exhibition of One Hundred Years of British Architecture, 1851-1951.** At RIBA. Weekdays, 10 a.m. to 6 p.m. Saturdays, 10 a.m. to 5.30 p.m.

UNTIL SEPT. 4

**"Living Traditions" Exhibition.** At Royal Scottish Museum, Edinburgh. 10 a.m. to 10 p.m. Sundays, 2 p.m. to 6 p.m.

UNTIL SEPT. 15

**FOB South Bank Exhibition.** Daily 10.30 a.m. to 11.30 p.m. Sundays, 12.30 p.m. to 11 p.m.

UNTIL SEPT. 30

**Exhibition of Science.** At the Science Museum, South Kensington. Weekdays (except Tuesdays and Saturdays), 12 noon to 10 p.m. Tuesdays and Saturdays, 10 a.m. to 6 p.m.

UNTIL SEPT. 30

**FOB Exhibition of Architecture.** At Lansbury, Poplar. Weekdays, 10.30 a.m. to 8 p.m. Sundays, 12.30 p.m. to 8 p.m.

UNTIL SEPT. 30

**Exhibition of Exhibitions.** At Royal Society of Arts, John Adam Street, W.C.2. Monday to Saturday, 10 a.m. to 6 p.m. (Wednesdays, 10 a.m. to 8 p.m.)

UNTIL SEPT. 30

## EXHIBITION OF CONTEMPORARY



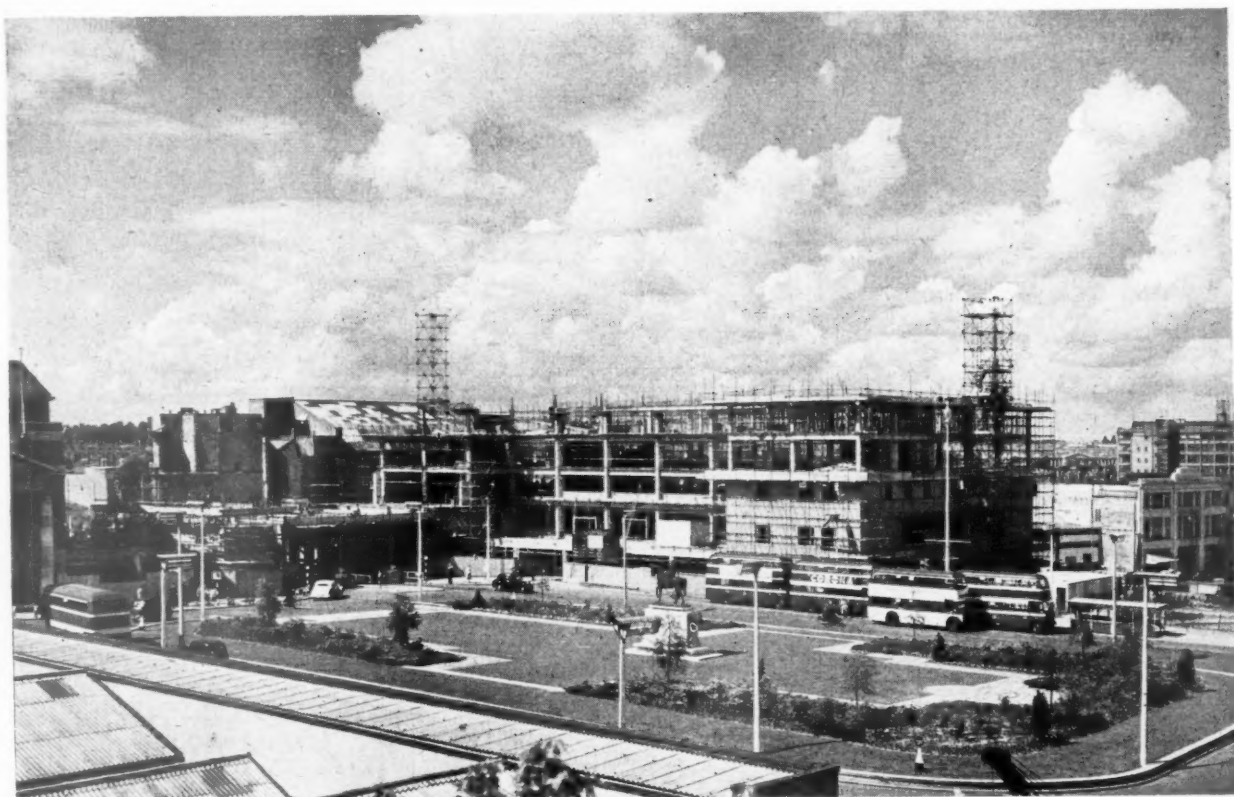
*The Festival Exhibition of Contemporary Architecture by Coventry Architects was on view at the Herbert Temporary Art Gallery for a period of four weeks, and was attended by 6,714 visitors. The exhibition, which was the idea of the Coventry*



*Society of Architects, received the recognition of the Arts Council and a financial grant from them and from the leading local newspaper. The display was arranged by R. Harley-Smith of the City Architect's Department. The two model photographs above show the replanning of Broadgate by D. E. E. Gibson, the City Architect, and in both pictures the building on the right is the proposed department store for Owen Owen designed by Hellberg and Harris which was illustrated in THE ARCHITECTS, JOURNAL on April 19, 1951. On the opposite page is a recent view looking south-west showing progress on this site. Below is a view of the proposed Methodist Church, Macdonald Road, designed by C. F. Redgrave and Partners. This church, which is to be built in a residential area, will seat 390 and will have a church hall seating 210 and premises for youth club activities. Centre, on the opposite page, is the proposed Roman Catholic Boys' Secondary School, designed by Hellberg and Harris,*



## ARCHITECTURE AT THE ART GALLERY, COVENTRY



on which work was begun last June. This school is one of a group of three to be built on the same site and is for 450 pupils. Bottom, right, is a model of the Caludon Castle Secondary Boys' School, designed by the City Architect, which will accommodate 1,500 pupils. The planning is on the "house" system, with separate blocks to accommodate 150 pupils each. The top photograph on page 132 shows the Community Centre for Bell Green, designed by C. F. Redgrave and Partners, which will serve a new neighbourhood unit of 4,500 people. The perspective pictured on the same page shows the entrance of the

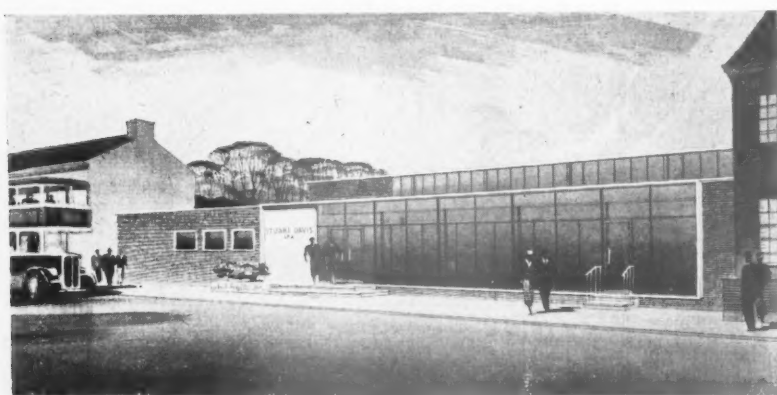




# ARCHITECTURAL EXHIBITION, COVENTRY



*new Infant School, Moseley Avenue, designed by Barnard Reyner, which will be completed in autumn, 1951. Below are perspective views of proposed offices and show-rooms in Foleshill Road and offices and works in Broad Street, both designed by J. Roland Sidwell.*



*This feature covers aspects of legislation, parliamentary news or statutory rules and regulations which are of special significance to the architectural profession.*

## ERNEST WATKINS The Architect and Current Affairs

### THE FUTURE OF LOCAL GOVERNMENT

The House of Commons has, at last, had a full dress debate on the state and future of local government. The debate took place on a motion by a Scottish Liberal-Unionist MP., Mr. Maclay, urging that "the redefinition of the boundaries and functions of local authorities be undertaken forthwith." Members had a variety of changes to suggest; no one was prepared to defend the present local government machine, and the division of powers and duties between its various sections and the Central Government, in the form in which they function today.

To those in a profession which brings them into close contact with most government agencies every day of their lives, a debate of this kind would seem to have two main interests: what does public opinion, as represented by MPs, think is defective, or capable of improvement, in the existing machine and what are the prospects of reform? The second question has by far the shorter answer. To quote Dr. Dalton, replying as the Minister responsible, this is a question "on which, in a Parliament with a narrow Government majority, comprehensive legislation is just not realistic at all." At the moment, the various associations of local government bodies are discussing their plans and proposals. When those plans are complete and agreed (if they are), which may be by the end of the year, the Government will then consider what it can do about implementing them. Walter Elliot, perhaps in a partisan way, interpreted that as meaning no action unless there is a Tory landslide at a general election.

But there was, at least, no lack of suggestions as to what should be done. They can be summarized as follows:—

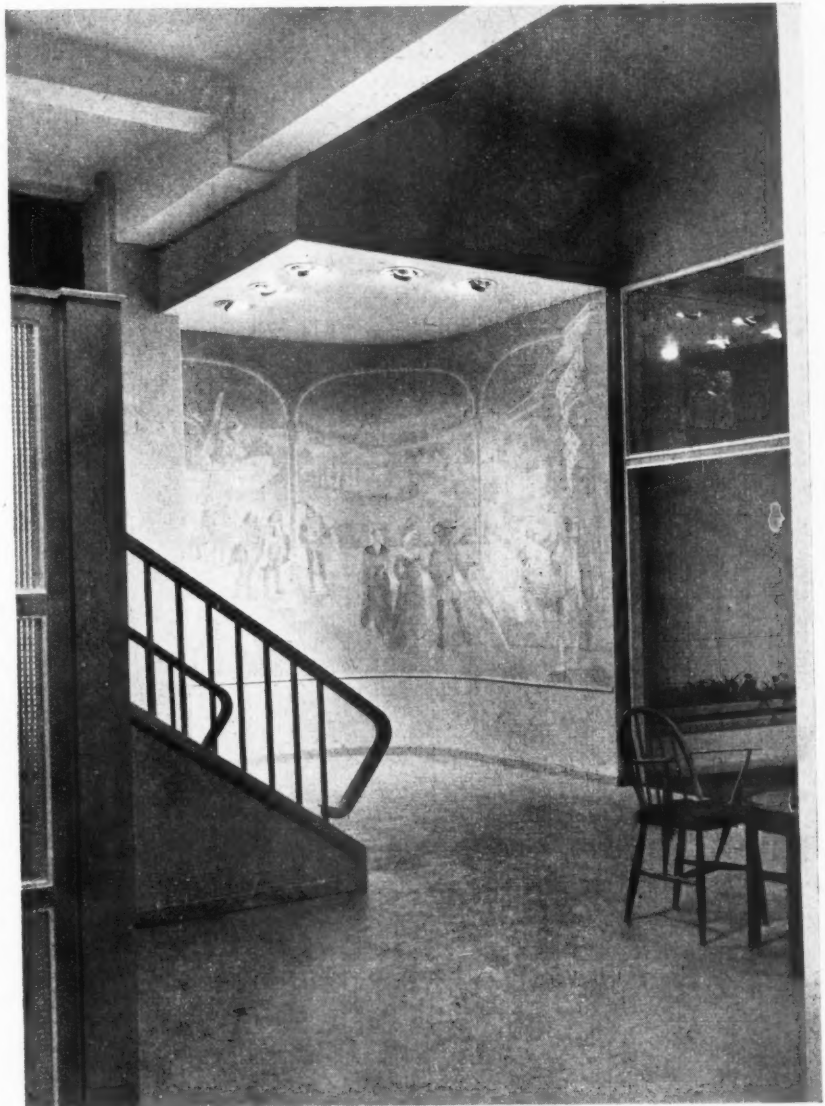
There is a certain minimum of social service to be provided, and if one agency fails, or is not suitable, to provide it, another must be created to fill the need. Labour

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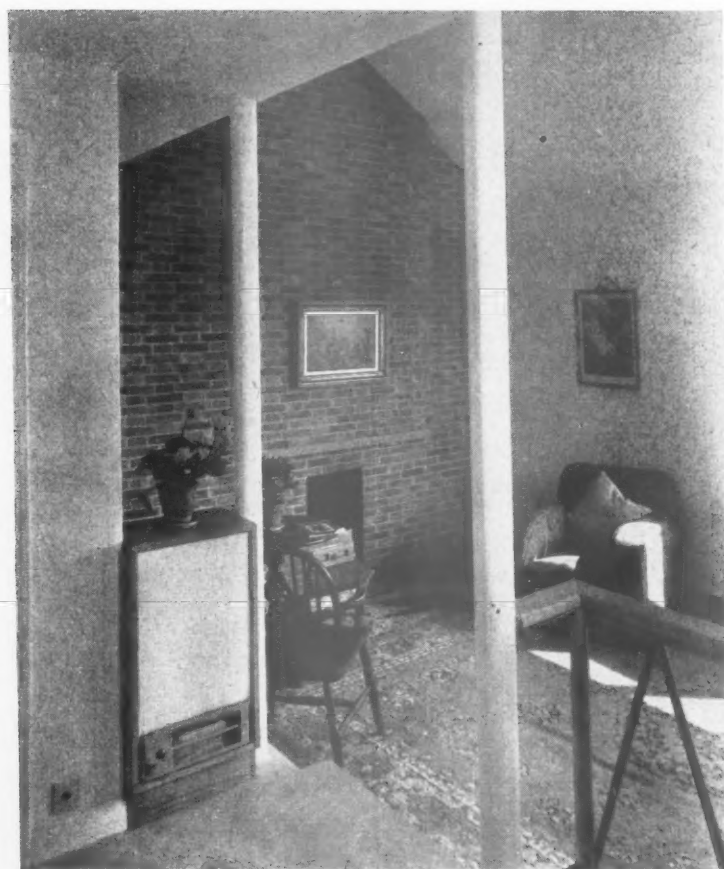
## WHITE BEAR INN, PICCADILLY CIRCUS, LONDON, W.1.

*This restaurant under the Criterion has been designed by Harold Wyatt. The plan was controlled by existing entrances, from Piccadilly Circus, from the Underground station and from Jermyn Street, and although there could be no extension to the outer boundaries, increased kitchen and lavatory accommodation was required. The original idea of having a kitchen open to the public had to be abandoned as the premises are licensed for music and dancing and consequently are subject to the theatre regulations of the LCC. The new staircase between the upper and lower restaurant levels, seen below, is of precast reinforced concrete units with glazed riser fronts. The mural paintings depicting traditional English scenes, one of which is seen on the right, were designed by Sidney Smith, and are intended to draw attention to the historic associations of the site. The White Bear, a 17th century inn, stood on this site until the building of the Criterion in the 1870's. The restaurant walls are plastered and painted in grey, blue, lemon yellow and terracotta. The screen between restaurant and kitchen is of glazed hardwood with laminated glass fibre bearing, in monochrome, coats-of-arms of towns in*

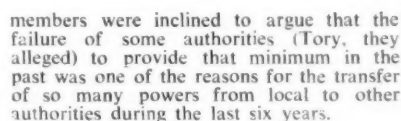


*the British Isles famous for various dishes. The walls of the cocktail bar are faced with mirrors from which the silvering has been removed to form the shapes of countries famous for wine. The mirrors are set 2 in. from the wall, on which are pasted wine labels of each country concerned. There are two walls of rustic facing bricks in the entrance foyer; on one of them are fixed carved plaster heraldic shields (bearing coats-of-arms of famous Thames-side towns) designed by Eric Winters. General contractors: Maple & Co. Ltd. Sub-contractors: page 150.*

BUNGALOW IN YEW TREE ROAD, D



The bungalow illustrated on this page and opposite was designed by Bevil Greenfield for a client who required a small, easily run establishment with a combined living-dining room, a main bedroom heated by a continuous burning stove and a spare double bedroom. The site slopes steeply southwards from the road and provides a fine view of Leith Hill to the south-west, Dorking town and Box Hill to the south-east. The plan has been kept as compact as possible, but the garage, seen on the left above, has been placed as far from the main building as the site width allows and is connected by a covered terrace and stores. There is a brick cavity wall construction, and the floor is solid, covered with  $\frac{1}{2}$ -in. buff magnesite composition. Ceilings are level in the bathroom, hall, dining recess and kitchen, but in the bedrooms and living room additional height is gained by following the roof slope internally, as seen in the photographs left and opposite. The finish is of distempered  $\frac{1}{2}$ -in. fibre board panels. The contract price was £1,447. The general contractors were Fred. H. Bartlett, Ltd. For sub-contractors see page 150.



There are two broad divisions in the social services. One is the service that is, in effect, no more than an efficient machine. In that case the size of each unit in the machine should be determined by considerations of the efficiency of the unit itself (over this, Mr. Messer, a Labour Member, instanced the West Middlesex Sewage Scheme, which serves a population of 700,000, far too large for a normal local government area). The other is the service which should be personal to the recipient, such as the care of the sick and the old. Most members thought that this was better in the hands of a unit small enough to give the local councillor direct knowledge of the service at work, and the people direct knowledge of the councillor. And, to quote Mr. Messer again, a present weakness there is the division of responsibility in function.

In general, there was agreement that the elected councillor was to be preferred to the nominated member of a board, but that the elected councillor must be given a job to do, and the feeling that he had responsibility for that job; otherwise the vitality of local government would be gone.

Local government organisation is not only a matter of the division of powers between various kinds of local authority (with which the Associations, and their plans, are, presumably, mainly concerned), it is also a matter of relations with the Central Government. On that, there was no support for regionalism, at least in times of peace.

So this summary becomes almost a string of platitudes, but at the moment the highest common factor in parliamentary discussion seems to consist of no more than these elementary platitudes.

The final aspect of a debate of this kind is the glimpses it should give of the states of mind in the political chiefs responsible for this particular field. By that test, the speech of Mr. Lindgren, the Parliamentary Secretary to the Ministry, was of little interest; he seemed to be solely concerned to make a number of political debating points. By the same test, Dr. Dalton is still only Minister for Planning, not yet Minister for Local Government. He began his speech with a survey of what this year's census figures show, the still dominating positions of the six great conurbations in England and Wales, absorbing two out of every five inhabitants. This, he said, was a very grim fact, and if planning meant anything we had to plan some of these people away to other areas (but, one is tempted to add, do they want to go?). He went on to describe what had been done, in the development areas, in the new towns and in those existing places which were to be expanded by their own corporations. But the machinery by which all this was done, the possibility that this array of new bodies and new powers might have itself contributed to the disorder and decay of local government—. . . I hope the Hon. Gentleman will not press me on what remains to be added . . . subtracted . . . and determined."

It is unlikely that Dr. Dalton will escape from all pressure in that direction.



## HOW DO YOU LIKE YOUR PARLOUR? OLD, NEW, MIX

The parlours shown here are at the Homes and Gardens Section of the South Bank Exhibition. They have been redecorated recently by the Council of Industrial Design at the invitation of the Director General of the FOB "in accordance with his policy of constantly improving the exhibition." The rooms have been planned to show how old and new furniture can mix in the same room, whether in a town or country parlour; how a room may best be furnished with tax-free furniture and how someone of means might furnish



a living room parlour with more costly contemporary furniture using bolder colouring and decoration. The exhibition was prepared by the CID, which had not been responsible for the previous parlours on show—although furnishings had been selected from its stock list—in three weeks, after it had been decided to have par-

lours with "a theme". Above: the country parlour, furnished throughout with tax-free furniture, designed by Frank Austin and Neville Ward. Below: the dining room parlour equipped mainly with non-utility furniture, designed by Eden Minns. The country parlour, made up of a combination of old and new



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## W, MIXED OR TAXED?



furniture, is shown above. It was designed by John Hill, who was also responsible for the town parlour (right) which also combines old and new furniture. The town parlour (below right) furnished with tax-free contemporary furniture was designed by Frank Austin and Neville Ward. In this exhibition the Council has had to follow the policy of the Festival authorities by not giving costs of individual pieces of furniture and not revealing where the furniture can be obtained. By an elaborate system of cross reference between the expensive catalogue and the information desks the visitor can find the addresses of suppliers. But surely the first thing the public wants to know at an exhibition of furnishings is the price of furniture. Could this not have been given in the catalogue?—a poor guide, as Astragal remarks on page 125.



## CANTEEN

at BROMLEY-BY-BOW, LONDON, E.3.

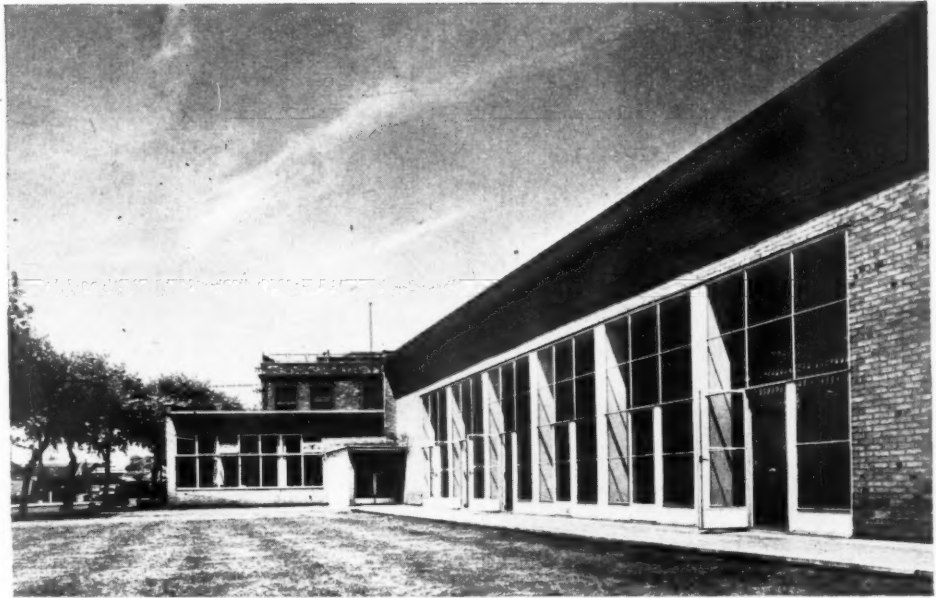
designed by ELIE MAYORCAS

The general purpose of this scheme for the North Thames Gas Board was to provide canteen and club facilities for some of the employees at the St. Leonard Street Gas Works, and washing facilities for the mechanics. As sufficient land was available, it was decided to separate these two functions into independent single-storey buildings.

*The main canteen, looking east.*

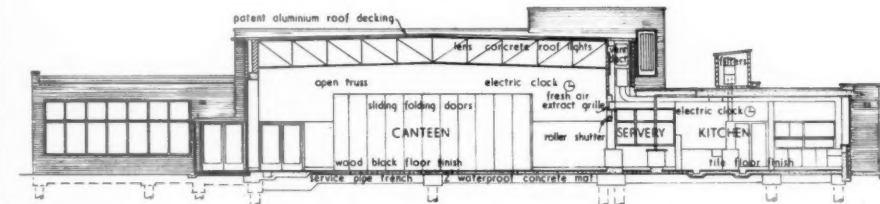


Looking south at the canteen, on the right, and the games and reading rooms beyond.

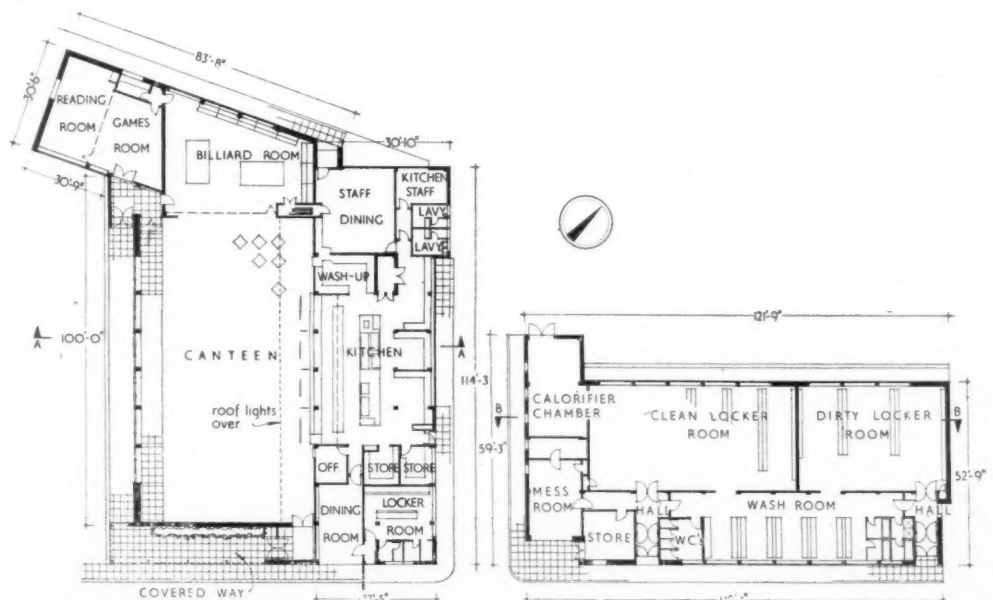


**SITE.**—Being a statutory undertaking the scheme was exempt from Local Authority control. The clients wished that the building containing the locker rooms and wash rooms should be sited to permit for future extension and to be parallel to the line of a future development of the mechanics' workshop. In choosing the position of the main canteen, advantage was taken of existing trees.

**PLAN.**—The principal requirements in the canteen building were that there should be accommodation at meals for 300 men, 24 foremen and 30 administrative and technical staff; meals should be served in twenty minutes at one sitting, with a future capacity of three sittings for one meal time; and the foremen's dining and washing facilities should be a self-contained unit within the canteen building;



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



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

Accommodation was also required for games. The billiard room is placed so that amateur shows can be staged in the men's canteen. The wash room (for 220 men) is arranged so that men pass through it when moving from the clean locker room to the dirty locker room; there is also a separate mess room for men who bring their own food.

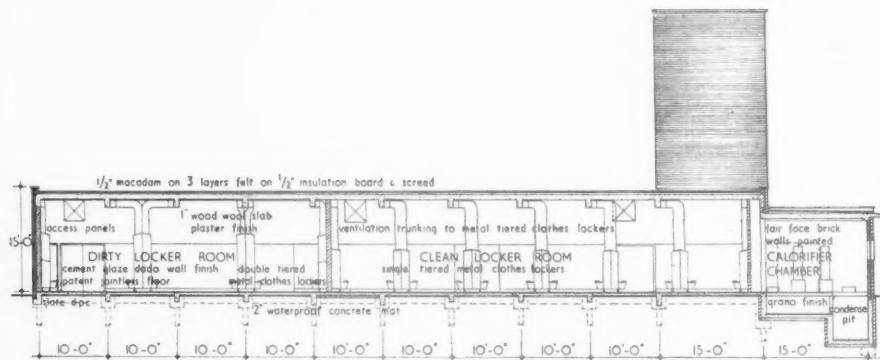
**CONSTRUCTION.**—There is a reinforced-concrete frame, T-beam roof slabs (except in the main canteen). Reinforced-concrete suspended ground slabs and bricks are used for external cavity walls and internal partitions. The superstructure is

supported on reinforced-concrete beams and piles cast *in situ*. The main canteen roof is of aluminium decking supported on steel lattice trusses.

**FINISHES.**—The walls are faced with London stock bricks and there are panels of frost-proof tiles at entrances. Roofs are covered with multi-ply mineralised bituminous felt on screed and  $\frac{1}{2}$ -in. macadam with protected metal eaves fascia drips. Owing to the corrosive nature of the atmosphere within the works no metal rainwater gutters and downpipes have been used. Rainwater is shed by means of extended eaves projections discharging

## CANTEEN

at BROMLEY-BY-BOW, LONDON, E.3.  
designed by ELIE MAYORCAS



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



Looking north-east, with the main entrance to the canteen in the foreground and the tank tower on the right.



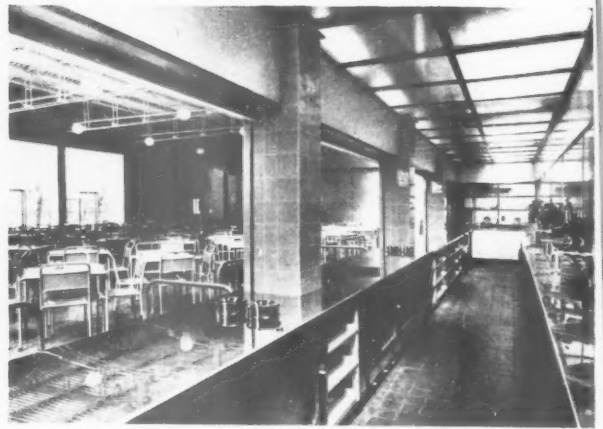
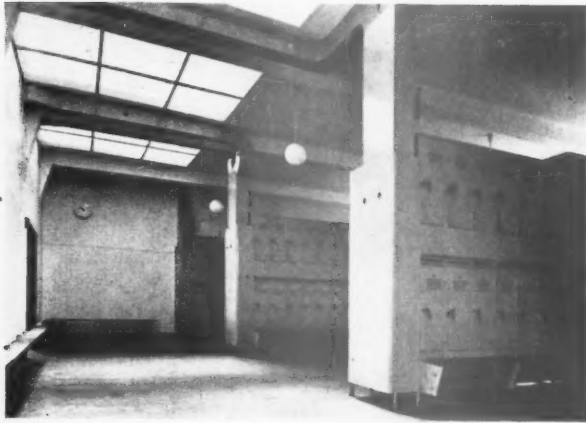


*The windows of the main canteen, which face south-west.*

on to concrete paving clear of the walls. Roof lighting has been used where sufficient windows in external walls are not practicable. Internally, the finishes are required to be particularly durable and long wearing. Floors are of a patent sub-divided composition in kitchen staff rooms, lavatories, wash-rooms and locker rooms; of hydraulic pressed tiles in kitchen and stores; elsewhere of muhuhu hardwood blocks. Walls have cement-glazed dadoes to door height throughout and, above this, painted Keene's plaster, except the main canteen servery wall, which is covered with acoustic tiles. Ceilings are of 1-in. woodwool, lime plaster distempered except in the games, reading and billiard rooms,

where acoustic tiles are applied to suspended ceilings and the main canteen, where the decking is left exposed. Doors and frames are generally of mahogany treated with a patent clear plastic finish.

**SERVICES.**—Heating is by low-pressure steam from storage cylinders brought into the calorifier chamber from the works. Mechanically-circulated filtered warmed air is supplied to the principal rooms and extracted by room fans. In the kitchen there are 31 air changes per hour and the ventilation is designed to avoid the necessity for hoods over the cooking equipment. The air extracted from the kitchen is drawn from the canteen to avoid any

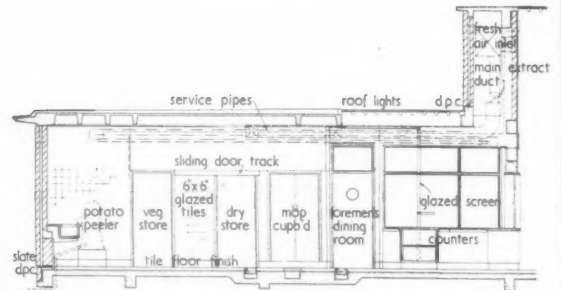


*Above, the dirty locker room.  
Above right, the canteen servery.*

## CANTEEN

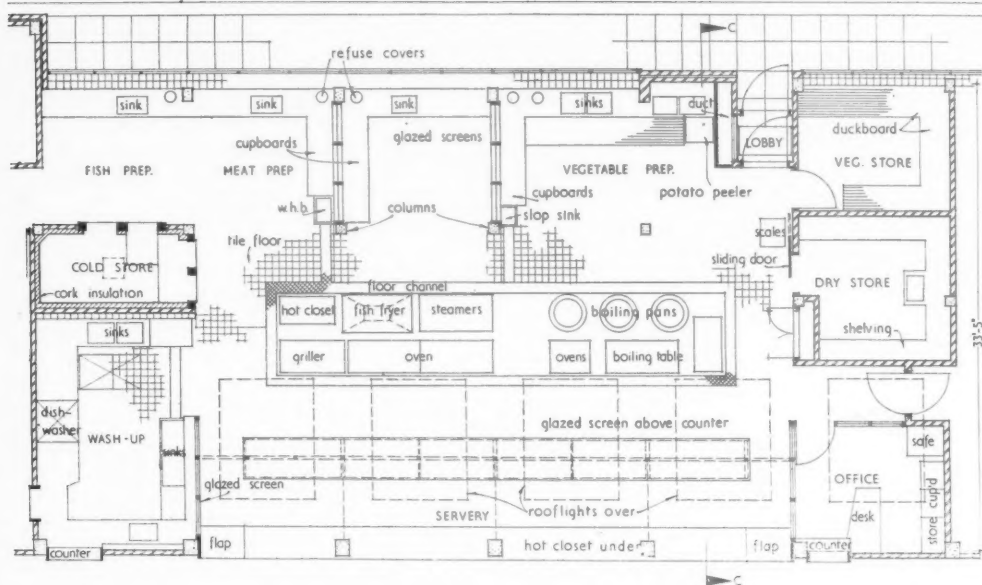
at BROMLEY-BY-BOW, LONDON, E.3

designed by ELIE MAYORCAS



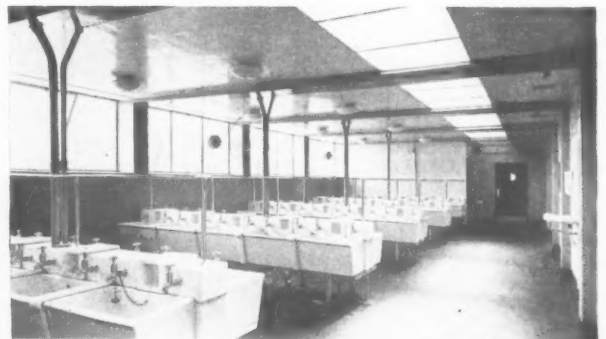
Plan of kitchen [Scale: 1/32" = 1' 0"]

Section C-C



cooking smells entering the dining areas. Lockers are warmed and ventilated by the plenum system. The contract price was £88,063. The following were designed by the Chief Engineer's Department of the North Thames Gas Board in collaboration with the architect: the structural frame and foundations, heating, mechanical ventilation and electrical work. And the kitchen layout was designed in collaboration with the catering section. The general contractors were Thomas & Edge, Ltd. For sub-contractors see page 150.

*The wash room.*



## WORKING DETAIL

## ROOFS AND CEILINGS : 2

ROOF: THAMES-SIDE RESTAURANT, SOUTH BANK EXHIBITION

*Fry, Drew and Partners, architects: Ove Arup and Partners, consulting engineers.*



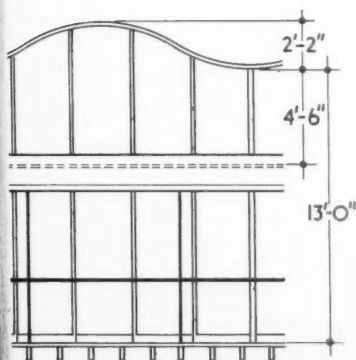
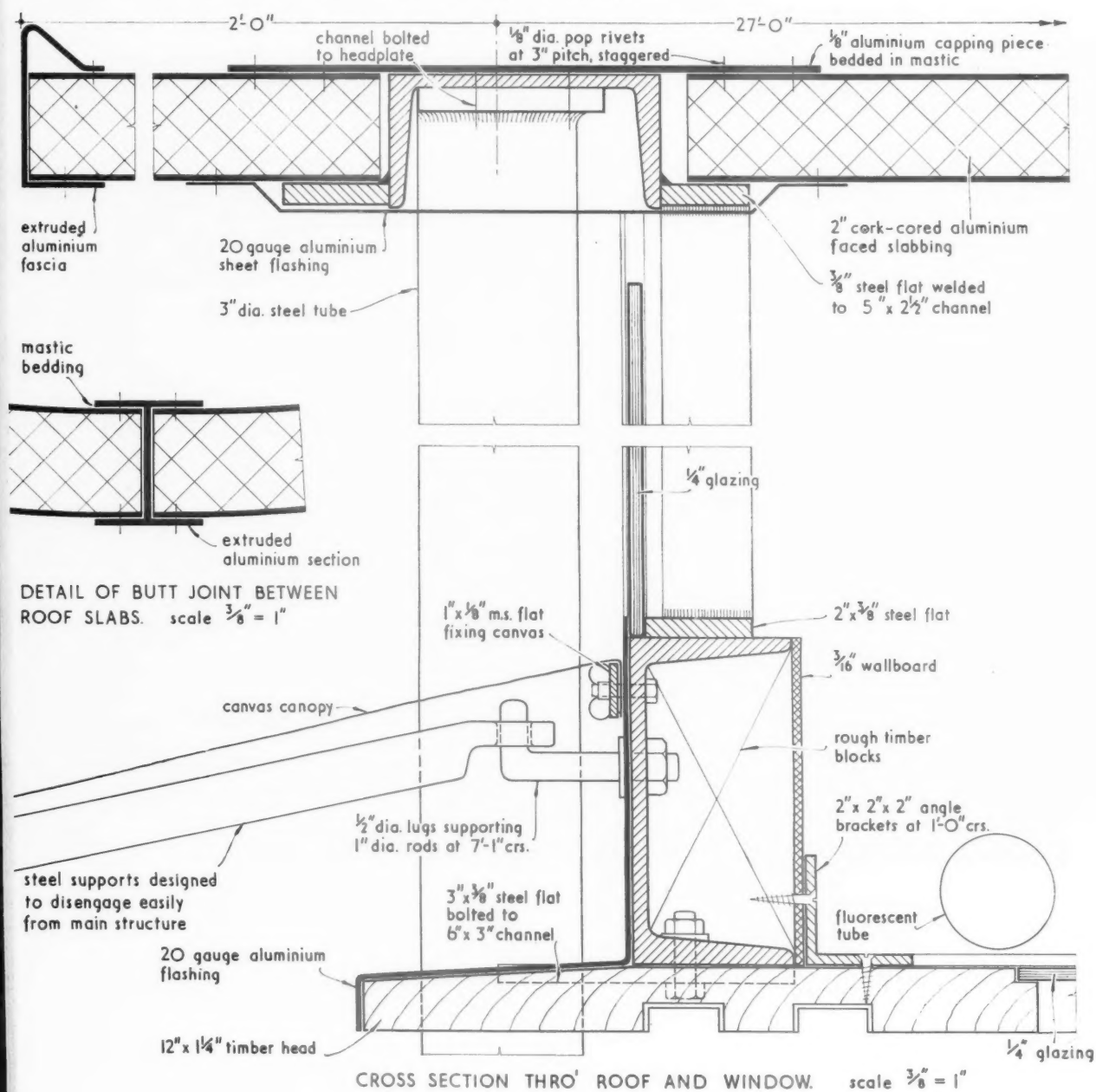
*The undulating roof is composed of two skins of sheet aluminium with a filling of cork.*

## WORKING DETAIL

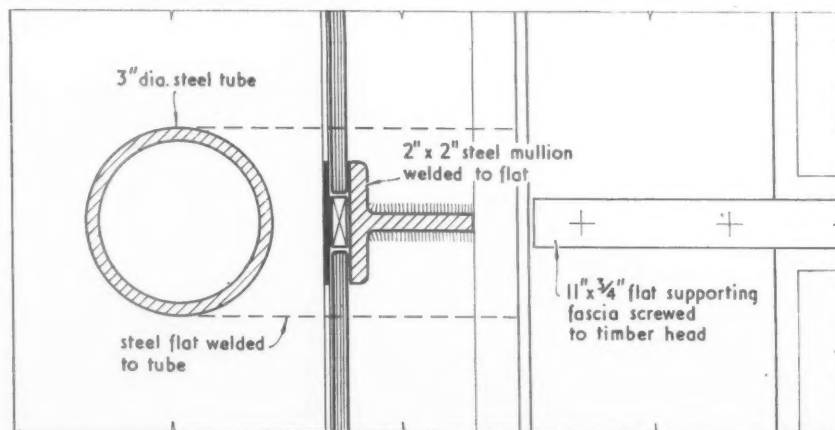
## ROOFS AND CEILINGS : 2

ROOF: THAMES-SIDE RESTAURANT, SOUTH BANK EXHIBITION

Fry, Drew and Partners, architects: Ove Arup and Partners, consulting engineers.



PART EXTERNAL ELEVATION TO RIVER. scale 1/8" = 1'-0"



PLAN ABOVE TIMBER HEAD. scale 3/8" = 1"

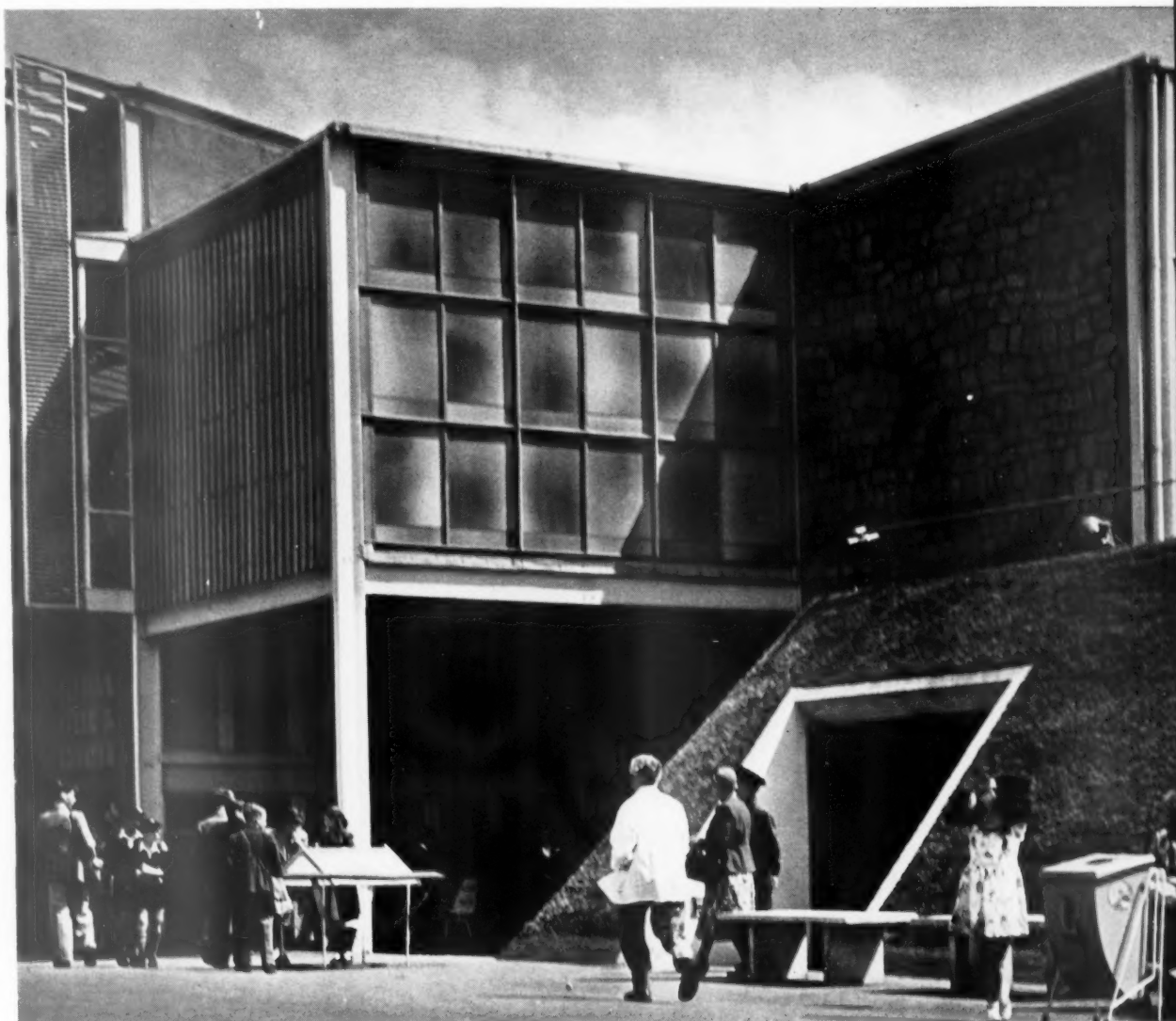


**WORKING DETAIL**

**WINDOWS : 4**

**WINDOW : COUNTRY PAVILION, SOUTH BANK EXHIBITION**

*Brian O'Rorke, architect : R. T. James and Partners, consulting engineers.*



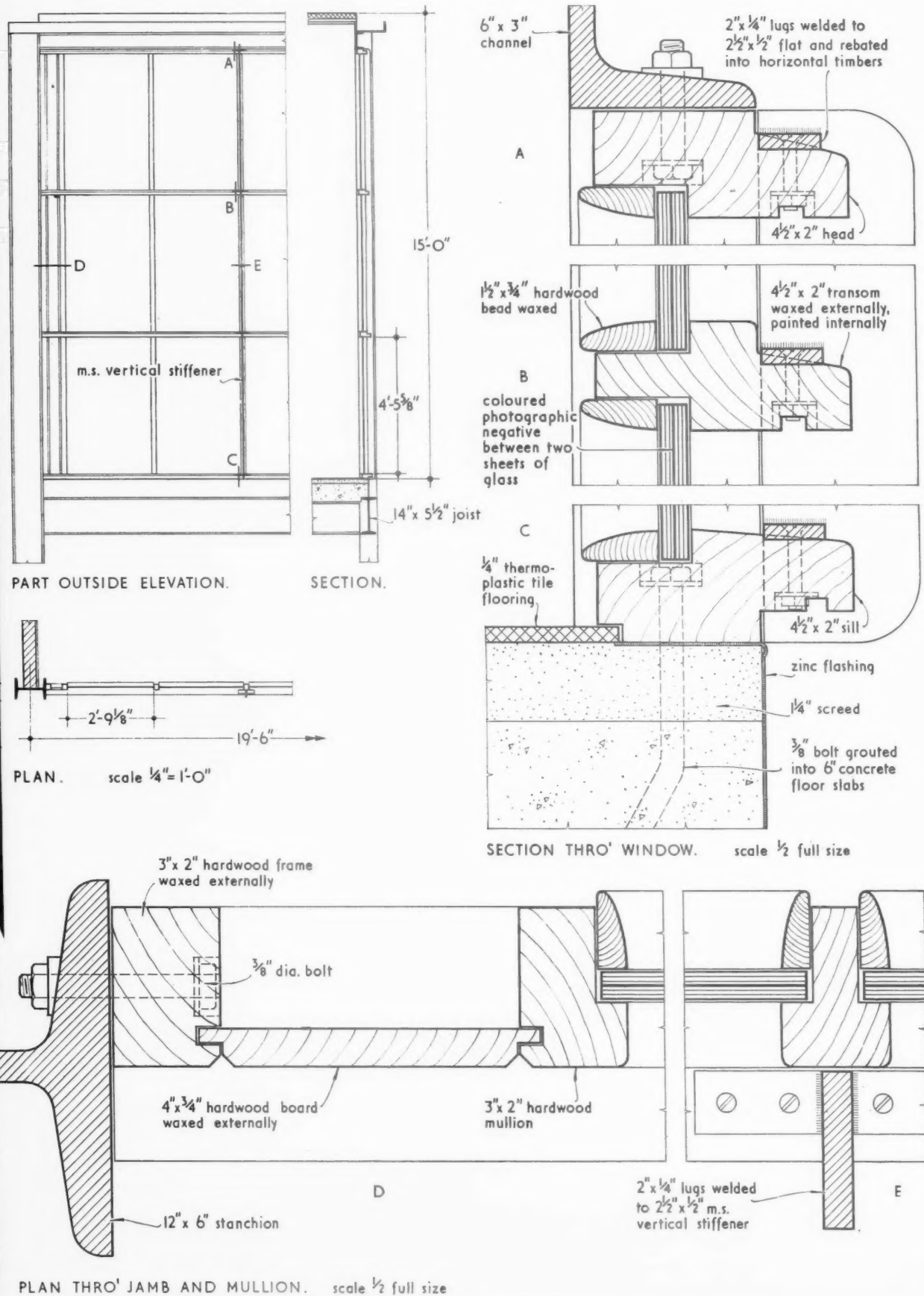
*Each pane consists of two sheets of plate glass, with a coloured photographic negative between them, framed in hardwood.*

## WORKING DETAIL

WINDOWS : 4

WINDOW: COUNTRY PAVILION, SOUTH BANK EXHIBITION

Brian O'Rorke, architect : R. T. James and Partners, consulting engineers.





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## TECHNICAL SECTION

In his article, last month, R. H. James explained the use of a type of crane suitable for conventional house-building. Now, S. F. Eden describes a number of continental cranes, suitable for use on traditional and non-traditional building, some of which may soon be manufactured in Gt. Britain.

### THE USE OF MOBILE TOWER CRANES ON THE CONTINENT

By S. F. Eden

#### DIFFERENT MEANS OF HANDLING MATERIALS

It is always interesting to review the methods employed by other people confronted with problems similar to our own, and in the field of materials handling on building sites there are very wide divergencies between the plant technique employed in this country and those used in many continental countries.

To generalize, in this country, vertical and horizontal handling tend to separate, the platform hoist being the most common machine for raising materials, while horizontal transport, if not carried out manually, normally follows American practice in using wheeled vehicles equipped with pneumatic tyres. In earlier days rail-mounted transporting vehicles were used to a greater extent, but have been largely superseded by perambulatory vehicles which are less restricted in their movements and can work more satisfactorily on sloping and undulating surfaces.

We have been less successful, perhaps, in developing these methods than the Americans, possibly because ground conditions here are usually less suitable for wheeled vehicles.

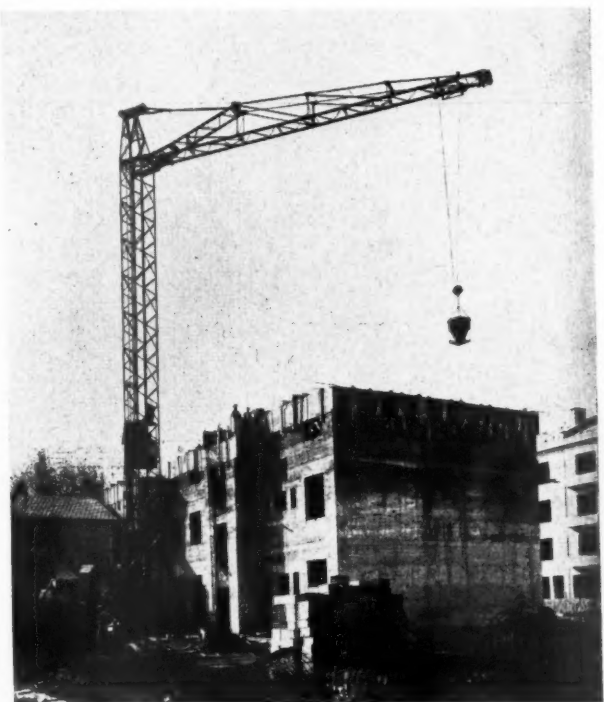
Many continental countries still use rail-mounted transporting vehicles extensively, and for lifting, cranes are predominant. The fact that these cranes are mounted on level rail tracks has permitted the development of some interesting models with tall masts and extremely long jibs, which can cover a great area and work to a considerable height from a short length of rail. Thus, vertical and horizontal transport, both on the ground and aloft, are combined, and the main disadvantage of the rail track (its uni-directional nature) is largely overcome.

The development of this type of tower crane for building is said to have started in Germany during the nineteen-twenties, spreading thereafter to Switzerland, France, Austria, Russia, Belgium and Italy. In the last few months some cranes have been

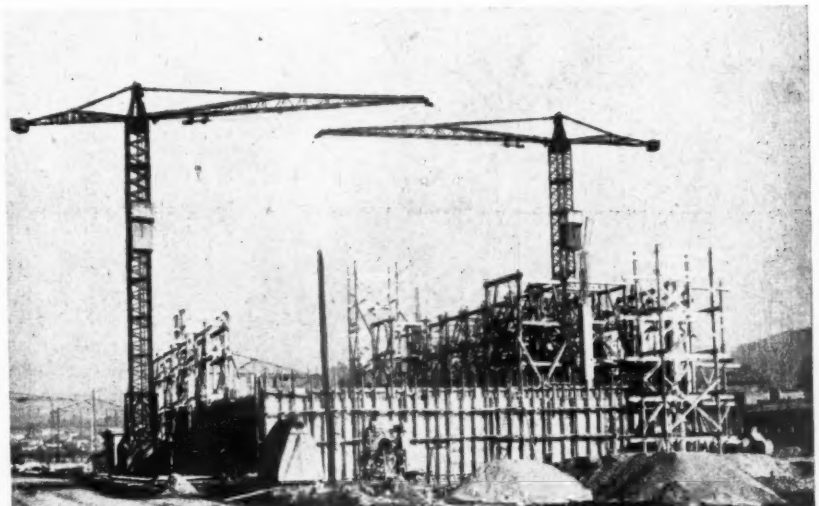
exported from France and Germany to this country, and one British manufacturer has announced his intention to manufacture a mobile tower crane here.

In France and Switzerland, these cranes are used almost universally for buildings of 3 or more storeys in height. There is a wide variety of different types and sizes. They all have a heavy base, often filled with gravel, which moves along the rails, the most popular gauge being 2.32 metres, i.e., just

Right, Fig. 2, electric tower crane, made in France, with maximum reach of 52 ft. 6 in. The jib can be raised to an angle, so that the crane can be used on high buildings.



Below, Fig. 1, these French rail-mounted tower cranes can lift 12 cwt. at a reach of 52 ft. Maximum height 100 ft.



below. Each mast section, about 10 ft. long, is added in turn at the bottom and raised so that the next can be slid in underneath. It can therefore be erected in a confined space, and it is claimed that this can be accomplished by 5 men in 10 hours. This crane will lift  $11\frac{1}{2}$  cwt. at 52 ft. 6 in. radius or 2 tons at a radius of 18 ft. It is powered by a single motor of about 12 h.p., which can be driven by petrol, diesel oil or electricity. This arrangement is unusual, for most continental tower cranes are electric, with a separate motor for each movement.

Another French crane, of similar capacity but with a shorter mast, is shown in Fig. 2. This is erected by laying the mast and jib in line along the ground and connecting them together and to the base. The end of the jib is then pulled towards the base until it is at right angles to the mast, which is then at about  $45^\circ$  to the ground. The

erection is completed by pulling the mast upright, with the aid of the shorter erection jib, which can be seen lying against the mast. This method of erection is also used on the crane shown in Fig. 3, which is to be manufactured in this country. This crane employs an ingenious method for balancing the jib, the balance weights being connected in the form of a vertically hanging chain. As the end of the jib is lowered, more weights are raised from the ground, so that the greater the reach, the greater the counterbalance in action. This is a bigger crane; it will lift 25 cwt. at 65-ft. radius, or  $3\frac{1}{2}$  tons, to a height of 115 ft., at 20 ft. radius.

Fig. 4 shows a French crane, with a capacity of 15 cwt. at 65-ft. reach, being used in the construction of a block of flats built of brick. The jib is working at a fixed radius, and the effect of a varying reach is obtained by moving the crane along the rails.

Alternatively, a jib with a trolley can be fitted like that shown in Fig. 2.

#### METHODS OF USING THESE CRANES

In France and Switzerland cranes lifting from 12 cwt. to 1 ton at a maximum reach of 50-65 ft. seem to be most popular amongst builders. They are erected on the site as the first building operation and handle all materials from foundation to roof. In France, where most building is in concrete or stone, bottom-discharge skips and flat-bottomed platforms are used to convey the materials. In Switzerland, where clay bricks are used extensively, they are normally delivered to the site in cradles for the crane to lift and place on the concrete floors. The bricks are laid overhand and no scaffolding is used for this purpose.

On a visit to France last year, builders at

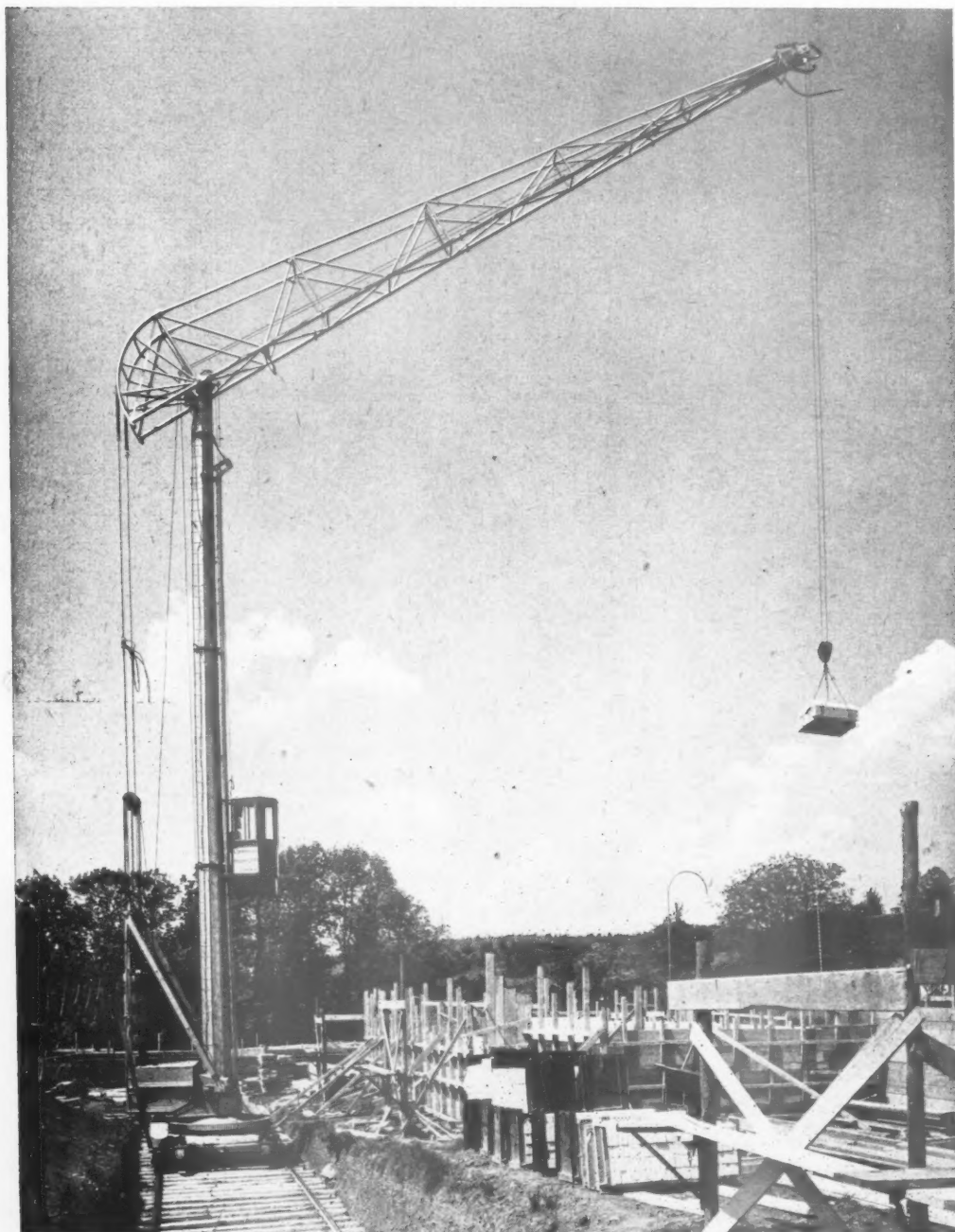


Fig. 3. A Swiss crane with a capacity of 25 cwt. at 65-ft. radius, which is to be manufactured in Great Britain.

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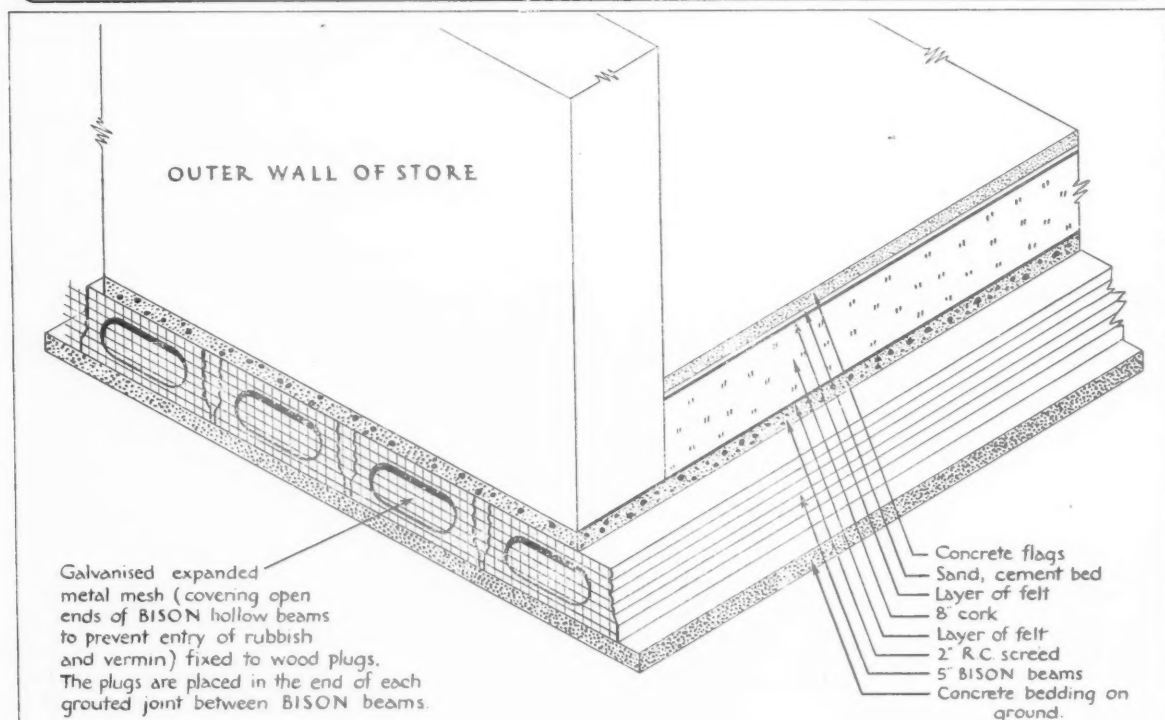
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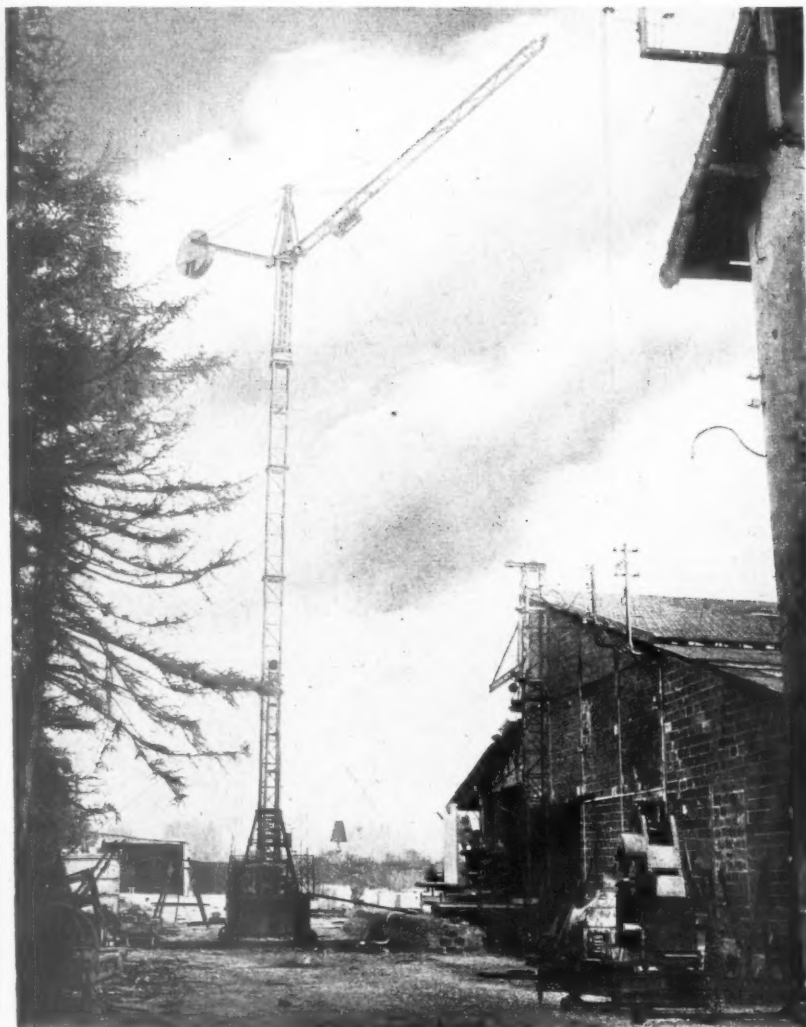
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about a dozen sites were questioned about the cranes they were using. Although no special significance can be attached to individual answers, it is interesting to note that they were consistently favourable. The general opinion seemed to be that the use of one of these cranes instead of other methods of handling saved from 10-15 men and that the speed of building was doubled. The time required to erect them was from 50 to 60 man-hours and no special skill was required. Enquiries about accidents seemed to suggest that they were not common; indeed, none were reported.

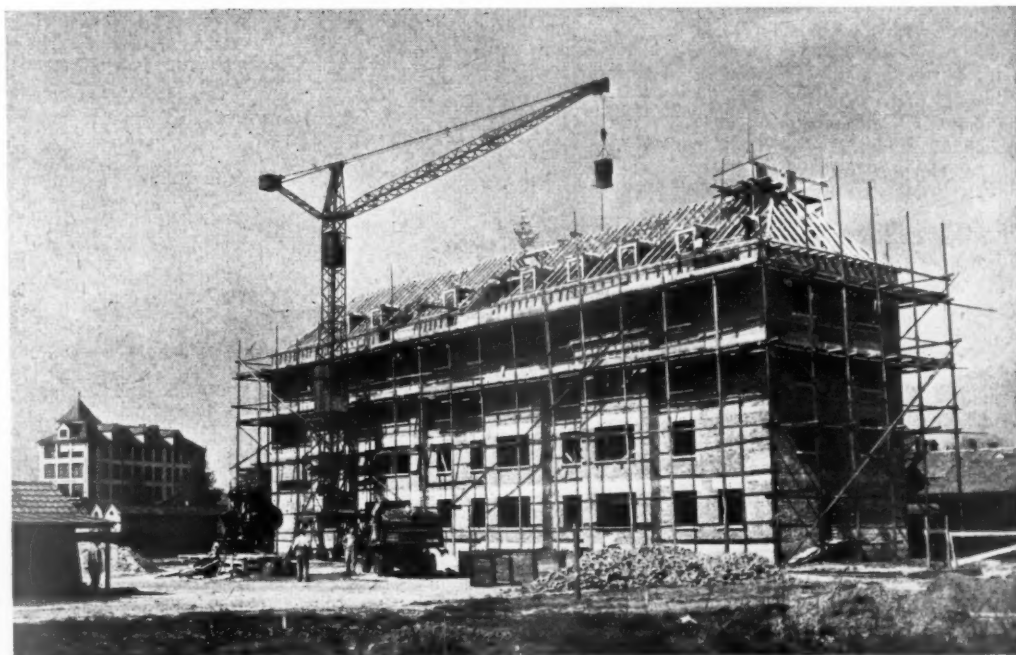
#### INCREASING USE OF SMALLER CRANES

The cranes illustrated so far have been designed, and are normally used, for building blocks of flats and other multi-storey buildings. There appears to be a trend on the continent, however, towards the provision of smaller cranes of this type, and examples are shown in Fig. 5 and 6, the latter showing a small crane being used for building terraced houses. This is a recent development in Germany and Switzerland which is of particular interest in view of the prominence of small houses in our own building programme. While their use for house building would involve organizational problems of greater complexity than when used for multi-storey buildings, preliminary estimates show that the potential savings would be considerable. These cranes, however, whether used on houses or larger buildings, should not be regarded only as potential labour-savers. Continental builders claim that they can also build much faster with these machines, with considerable saving of overhead expenses.

#### THE CRANE'S EFFECT ON ARCHITECTURAL DESIGN

From the architects' viewpoint, the ease with which prefabricated components, which may be difficult to handle by other means, could be lifted and installed, offers interesting possibilities, but it will also be necessary to explore the relationship between the proper use of such a machine and the design and construction of the building. For instance, it is obvious that the rail track should be designed during the layout stage.

*Above, Fig. 4, small French tower crane with capacity of 11 cwt. at 40-ft. reach. Can be driven by petrol, diesel oil or electricity.*



*Right, Fig. 5, electric crane, made in France, with capacity of 15 cwt. at 65-ft. reach. As an alternative, it can be fitted with a jib as shown in Fig. 1.*



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since some levelling operation may be necessary. It is also clear that some plans would be more suitable than others. Where, for instance, the face of the building is broken into a series of shallow bays, it may not be easy to cover the whole building from a straight rail track, and the smallest radius of curve which the crane can negotiate becomes important. Again, it is clear that if full benefit is to be obtained in speed of building, it is necessary that sub-contractors, as well as the main contractor, should make use of the machine, and this may require special arrangements.

#### FURTHER RESEARCH NEEDED

To use these cranes to the best advantage builders require detailed knowledge of their performance in all aspects. Their application to concreting work and the handling of pre-cast components or steelwork may be straightforward; on brickwork and other skilled operations it will be necessary to discover the optimum number of skilled workers that can be served by the crane in order to organize gangs effectively. Suitable skips, slings and other handling gear may have to be devised in order to reduce handling to a minimum.

There is in fact a great deal yet to be learnt about these machines. The Building Operations Research Unit of the BRS has a programme of studies and investigations which it is hoped will provide useful information about the economics of using such machines in this country.

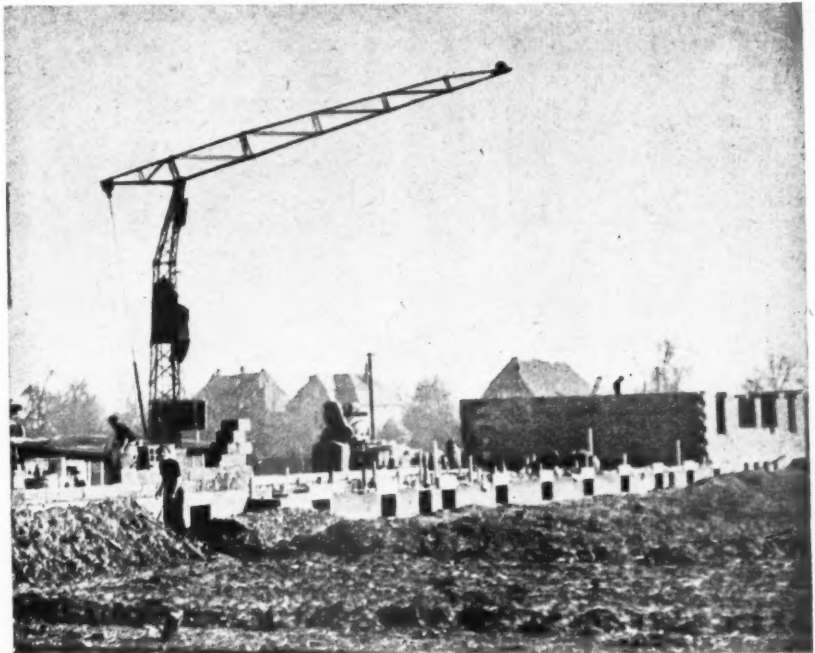


Fig. 6, small German tower crane, used for house-building, with a capacity of 11 cwt at 40-ft reach. Electrically driven.

*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.*

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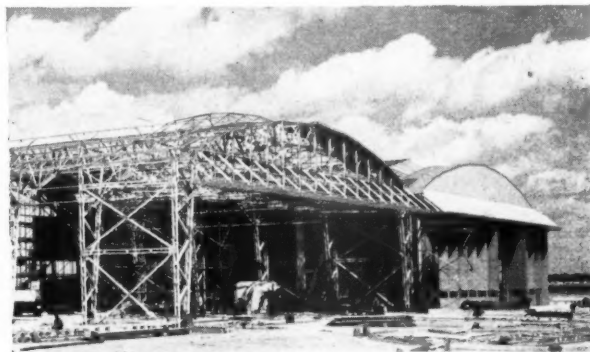
20.199 construction: complete structures

### ALUMINIUM HANGAR

*The First Aircraft Hangar in Aluminium Alloy, London Airport. (AJ, June 7, 1951, pp. 732-733, and other journals.)*

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Two-pin lattice-type portals of 125-ft. clear span are spaced at 22-ft. centres, supported by hinges of 2½-in. diam. steel pins, in aluminium alloy castings bolted to the concrete foundation blocks. These hinges were a great advantage for erection purposes. Pairs of half portals were pre-assembled on the ground, with purlins, stays and bracings. These units, of only 3 tons weight, were hoisted into position by rotating them about their bottom hinges, by means of winches; the ropes being attached to the eaves of each half portal. The same was done with the pair of half portals opposite, and at the apex a connection of turned bolts completed the job. No figures are given, but the saving in erection costs must have been considerable.



Aluminium aircraft hangars at London Airport. Left, second unit under construction. Below, detail of hinge support (See 20.199.)

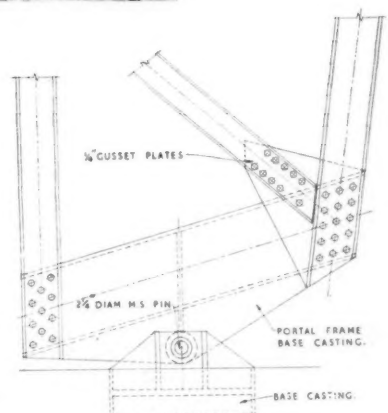
20.200 construction: complete structures

### PRESTRESSED CONCRETE BUILDINGS

*Bâtiments Industriels en Béton Précontraint (Industrial Buildings in Prestressed Concrete). (La Technique des Travaux [Belgium], May/June, 1951, pp. 145-160.)*

Well illustrated article giving interesting account of recent achievements in Belgium and France. Further advances in the technique of prestressed concrete. 26 illustrations.

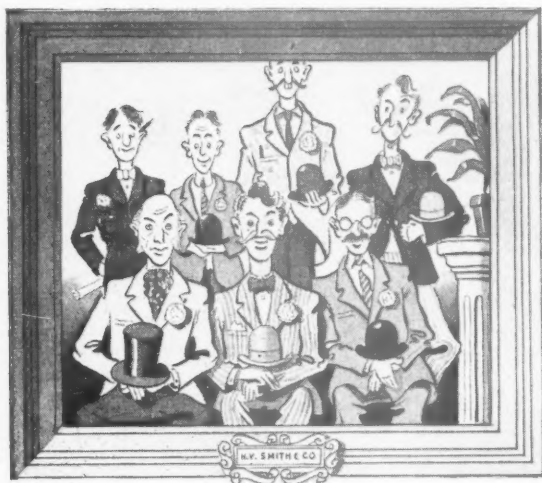
The architects responsible for these buildings made full use of the advantages offered by continuity in prestressed construction, and early difficulties seem to have given way to elegant solutions. Diagrams and photographs show the positioning of the high-tensile steel cables for prestressing the concrete. They are so arranged as to take care of the reversed bending moments which occur over the intermediate supports. A variety of industrial buildings are described in detail, giving shape and dimensions of the steel wires and the concrete members. Multi-storey factory buildings are shown, with prestressed concrete roof girders of 55-ft. span, 4 ft. deep at the ends and 5 ft. 8 in. at the centre. In another case north-light roof frames are supported on an entablature formed by beams and girders crossing at



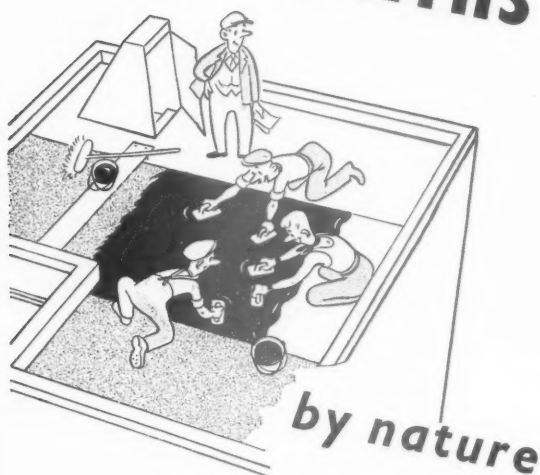
right angles and prestressed *in situ*, for continuity.

It is claimed that the main disadvantage of reinforced concrete has been overcome by prestressing; no cracks are to be expected because the concrete is everywhere in compression. The combination of prefabricated prestressed beams with prestressing on the site is of special interest.

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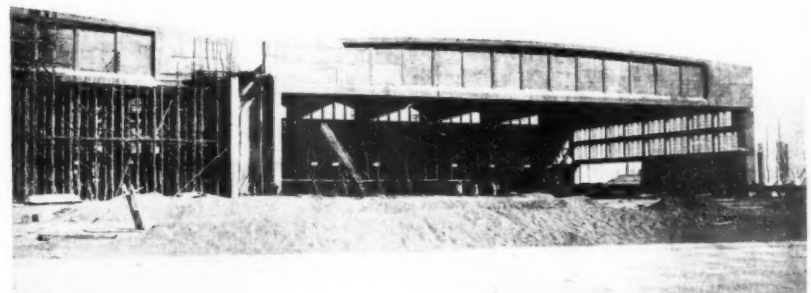
## 20.201 construction: complete structures PRESTRESSED CONCRETE

*Prestressed Concrete in India.* (Concrete Quarterly No. 10, 1951, pp. 26-30.)

Article describing some large prestressed concrete buildings and bridges erected in India during the last 10 years. 11 illustrations.

As early as 1940, two reinforced concrete garages with shell roofs were built by Bombay contractors, applying Freyssinet's methods. Each of these garages measured 420 ft. by 120 ft., and was covered by 11 barrel roofs of 35 ft. chord and 120 ft. long. At that time the Nazi invasion of France completely cut India's contacts with the French manufacturers of prestressing plant. This had, therefore, to be produced in India, and a new branch of the Indian building industry was gradually developed.

The hangar at Karachi, 396 ft. by 130 ft. in plan, also has shell roofs of 35 ft. chord, supported on prestressed edge beams. The massive gable girders, of prestressed concrete, span the 190-ft. door openings, a remarkable achievement considering the circumstances under which it was built.



*Hangar at Karachi Airport (see 20.201). Above, photograph taken from the front.*

## 23.150 heating and ventilation TROPICAL HOUSING

*Design for Climate. Roofs Ventilation and Insulation. Attic Exhaust Fans for Summer Cooling.* Numbers S.B.1, S.B.3 and S.B.7. Notes on the Science of Building. (Commonwealth Experimental Building Station, Chatswood, NSW, Australia.)

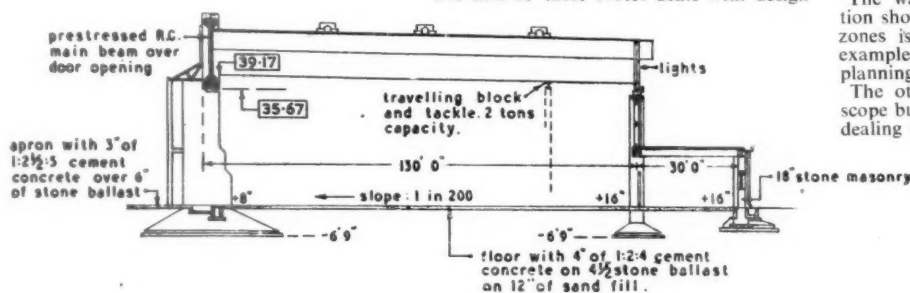
Three good papers of value to all concerned with building in hot climates.

The first of these Notes deals with design

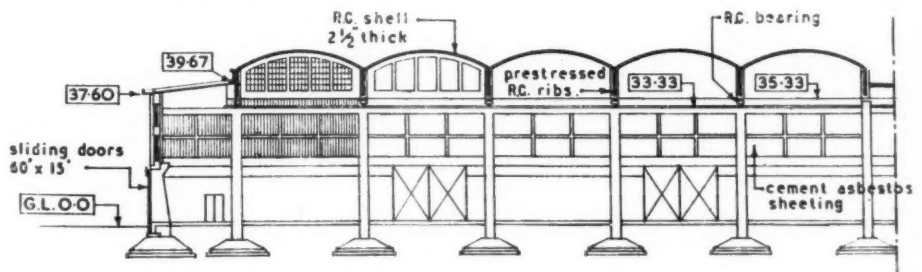
of houses in relation to climate, and differentiates between requirements in the humid and the arid zones of Australia. The effects of siting, orientation, air movement through the rooms and through the roof space, and the effect of solar radiation are clearly described.

The way in which design and construction should differ in the humid and the arid zones is explained. This is an interesting example of the effect of building science on planning and construction.

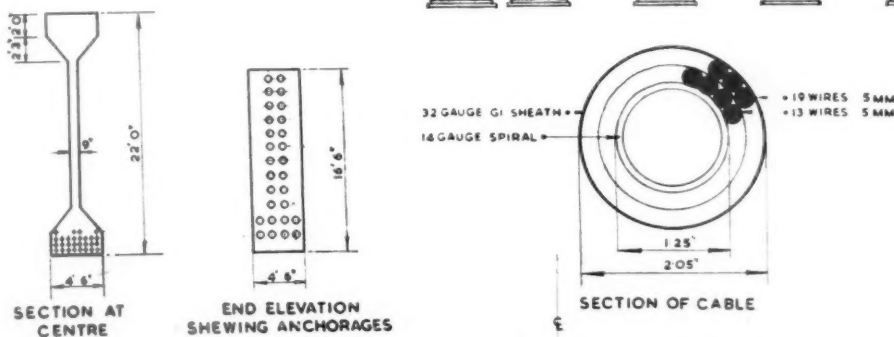
The other two Notes are more limited in scope but are quite useful, especially the one dealing with Attic Exhaust Fans.



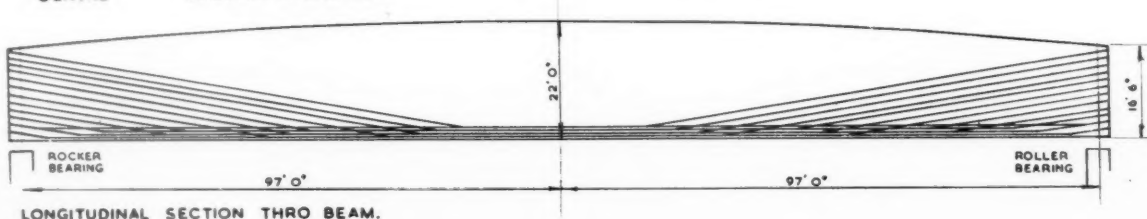
*Hangar at Karachi Airport. Right, part longitudinal section. (Scale:  $\frac{1}{32}$  in. = 1 ft. 0 in.)*



*Hangar at Karachi Airport. Left, cross section (scale:  $\frac{1}{32}$  in. = 1 ft. 0 in.)*



*Hangar at Karachi Airport. Details of prestressed concrete main frontal beams.*



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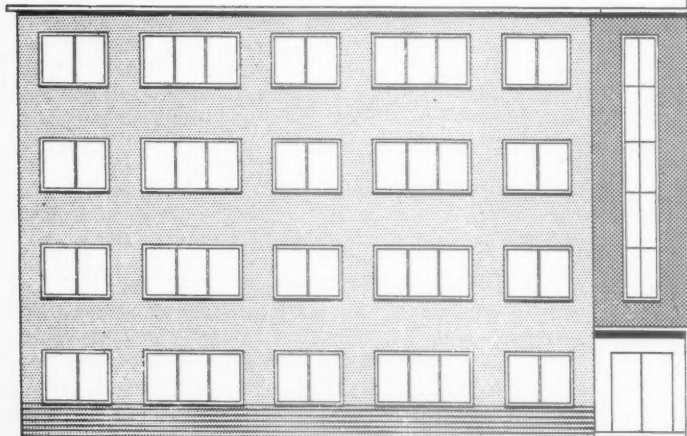
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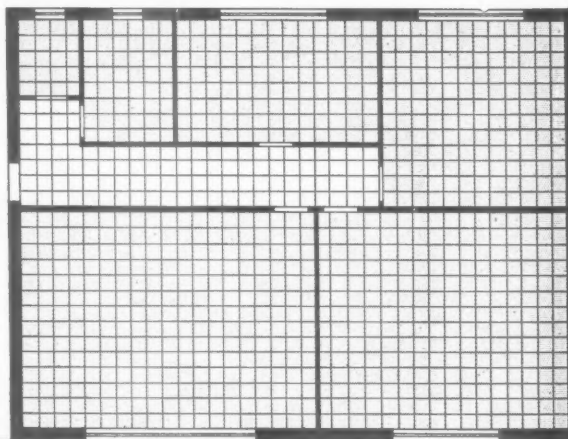
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# NATIONALISATION OF THE BUILDING INDUSTRY

By Ian Bower

## SCHEME ACCEPTED IN PRINCIPLE

Proposals for the immediate nationalization of the building industry have never been accepted at Labour Party conferences, or have they been accepted by an official Labour Party organization, apart from the operative unions in which they originated. Such proposals have appeared impracticable to the party policy-makers, imprudent to independent critics, and positively immoral to some building employers.

Despite all this, nationalization is persistently advocated by the NFBTO. A first report was presented to that organization's conference in July 1950, and a scheme for nationalization was accepted in principle. A second report has now been made, and a discussion has taken place on its implications.

There are two important points about these developments. Firstly, the original scheme is shown to have been anything but final—a draft scheme not a blue-print—even in the eyes of its sponsors. The NFBTO is still criticising and modifying its original plans. Secondly, the reiteration of belief in the principle of the scheme by the unions is a political fact that has now to be reckoned with. All precedents suggest that a scheme of this kind, once adopted, will sooner or later, in some form or other, find its way on to the statute book at Westminster.

## CRITICISMS OF THE NATIONALIZATION PLAN

The criticisms of the nationalization plans that have been advanced by union members throw considerable light on the present dissatisfactions that have led to a demand for nationalization. The plan, as first drafted, has been criticised for its lack of detailed reference to the part that the operatives should play in a nationalized industry. One of the most fashionable slogans of the moment is that "consultation should be effective." "We want no spit-and-polish ex-admirals and pensioned officers here," is the cry. A permanent liaison committee is proposed to link the nationalized industry management with the organized workers, but the general feeling seems to be that the consultative machinery is less important than the spirit in which it is to be worked.

These criticisms and suggestions possibly show how uneasy are present relationships between unions and employers; and they show, too, that opinion in the unions is no longer solidly convinced that nationalization in itself—and in the absence of a drive for wider measures of joint consultation than have been adopted in existing nationalized industries—is necessarily a straightforward and effective remedy for present discontents.

Another criticism made of the original nationalization plan is that the taking over of all firms with 20 operatives or more at one swoop might result in a lowered standard of management and of supervision. Second thoughts, again, may well be best. The NFBTO is gradually convincing itself that any nationalization scheme for the industry would have to proceed slowly, even in the most favourable circumstances. But

the sponsors of the plan still seem to think that at the first bite, the employment of about three quarters of a million building workers would be brought under one authority. (This authority would, of course, delegate its powers to various regional and area sub-authorities.)

Moreover, the sponsors of the scheme, worried though they may be over the question of how to associate the operatives more closely within work of management, have to avoid the Charybdis of syndicalism as well as the Scylla of alleged industrial dictatorship by the "new bosses." They know that they will never successfully pilot the scheme through the Labour Party Conference if any heretical leanings towards a syndicalist theory are detected in their plan.

These criticisms of the proposed scheme seem to be in some respects based on a naive and even out-of-date approach to the problem actually in hand. After all, what is nationalization wanted for? Is it to promote the interests of a few spokesmen of the workers? Or to raise wages and improve conditions of work? Or to improve efficiency and reduce building costs? If any one of these more or less laudable objectives is in fact the one for which the plan was mainly devised then the question must be posed whether some device, or reform, other than nationalization, might not have served that purpose even better.

## ALTERNATIVES TO NATIONALIZATION

If the main objectives of nationalization were the improvement of working conditions, for instance, a direct attack on this problem might be more fruitful than the round-about method of the state becoming sole (or chief) employer.

What is the present position on this issue today? The enlightened private employer provides reasonably good working conditions for his men, while the unenlightened does not. The former gets, on the whole, better work done more cheaply than the latter. A radical reform of the industry which rewarded efficiency and discouraged inefficiency more sharply than the present set-up of contract-letting might increase the ratio of enlightened to unenlightened employers very considerably; but would not nationalization be in danger of producing a uniform standard that was neither good nor bad—but just mediocre?

Or, again, if the main objective of nationalization is to increase the proportion of operatives who can climb the management ladder, could not this be done more simply by the encouragement of bursaries and special educational facilities rather than by unification of management in one large unit?

The danger of the nationalization proposal is that these shorter cuts to the early attainment of the desirable objectives which its sponsors have in mind, may be neglected. Instead of concentrating on the improvement of working conditions (bad enough, unfortunately, in many instances), on the broadening of educational opportunities and on the extension of consultative practices in the present, and with resisting administrative machinery, they indulge in a dangerous dream which will almost certainly be disappointing to live again in actuality.

This is not to say that a special case for partial nationalization of sections of the industry may not be made out from time to time quite successfully. But any such case needs to be discussed on its merits. Direct Labour schemes are sometimes very successful; and a certain amount of healthy competition between the state and private

industry ought to be beneficial to both parties.

But wholesale nationalization of three-quarters of the industry is an entirely different proposition. The real reason for it seems difficult to discover or to describe at all briefly, for it originates in the long history of the industry and of the unions, and can only be explained in terms of political ideas (and the forces governing those ideas) which dominate the present generation of union leaders.

The ideas of the union leaders have themselves been conditioned by the actions of the employers. The nationalization proposal is symptomatic of the backward state of the industry as a whole, despite the magnificent achievements of the more progressive firms and organizations. There is a malaise in the industry which it would be most unwise to ignore or to explain away. The apologists and the after-dinner speakers choose to pretend that the present happy combination of competitive tendering, by-laws, licensing and traditional building give the customers all that they expect, and the employees all that they deserve. That nearly everyone outside industry takes a different view is too often forgotten or dismissed as irrelevant.

But unless the techniques of industry are more rapidly improved—including industrial relations among those techniques—it will find itself even further behind some of the other great industries of the country. The public is slow, but not so slow as to be wholly ignorant of the great progress in building methods afforded by research; and sooner or later better quality standards mean reorganization of firms and of the workers themselves. It would be a good day for this country if the operatives were to pass a resolution in favour of more money being spent on research, and on training their own members in the latest techniques, instead of their taking refuge in large-scale plans which they themselves would soon find hard to modify in practice.

## Announcements

The Architectural Division of Sheffield Regional Hospital Board has been re-established at the Board's headquarters at Fulwood House, Old Fulwood Road, Sheffield, 10. (Tel.: Sheffield 32937/8/9/0.)

The annual summer week-end meeting of the RIBA Golfing Society was held recently at the Royal Cinque Ports Links, Deal. Results were as follows:—The captain's cup and silver tankard, presented by H. St. J. Harrison, were won by A. D. McGill, with a score of 79 - 10 = 69. The president's prize and silver spoon were won by E. H. Firmin with a score of 41½ points. The Allenby bowl was won by W. D. White with a score of 38 points. The foursomes competition was won by Sir Giles Gilbert Scott and A. D. McGill with a score of 34½ points.

We announce with regret the death of Arthur J. Davis, senior partner of Mewes & Davis, 1, Old Burlington Street, W.1. The practice of Mewes & Davis will be carried on as heretofore, by Thomas Spencer, who has been associated with the firm for over 30 years.

The Council of the Federation of Association of Specialists and Sub-contractors have announced that at a meeting held on July 5, 1951, the National Employers Federation of the Mastic Asphalt Industry (21, John Adam Street, W.C.2) and the Master Sign Makers' Association (2, Aberdeen Park, Highbury, N.5) were elected Associate Members of the Federation.



Readers requiring up-to-date information on building products and services may complete and post this form to *The Architects' Journal*, 9, 11 and 13, Queen Anne's Gate, S.W.1.

## ENQUIRY FORM

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A.J.2.8.51

## Buildings Illustrated

"The White Bear Inn," Piccadilly Circus, London, W.1. (Page 133.) Architect: Harold Wyatt, DIP.ARCH.(L'POOL), A.R.I.B.A., M.S.I.A. Quantity Surveyor: Lionel C. Waller. General Contractor: Maple & Co. Ltd. Sub-Contractors: Stone, Ralph Hancock & Son; glass, James Clark & Eaton Ltd., Ply-glass Ltd.; gasfitting, kitchen equipment, Benham & Sons Ltd.; electric wiring, William Steward & Co. Ltd.; electric light fixtures, Troughton & Young Ltd., Courtney Pope (Electrical) Ltd.; refrigeration equipment, Harcold Refrigeration Ltd.; sanitary fittings, Shanks & Co. Ltd.; stairtreads, Ferodo Ltd.; amplifying equipment, Trix Electrical Co. Ltd.; grilles and rolling shutters, Rely-a-Bell Ltd., Gaskell & Chambers Ltd., Goodwin & Co. Ltd.; venetian blinds, J. Avery & Co. Ltd.; metalwork, Cecil Ern & Co. Ltd.; entrance front, Goodwin & Co. Ltd.; tiling, W. B. Simpson & Sons Ltd.; textiles, Fothergill & Harvey Ltd.; wall coverings, James Williamson & Son Ltd.; furniture, Commercial Renovations Ltd., Story & Co. Ltd.; bars and bar fittings, Gaskell & Chambers Ltd.; platform hoist, Hammond & Champness Ltd.; clocks, Synchrotime Ltd.; washing up equipment, Staines Kitchen Equipment Co. Ltd.; neon signs, London Signs & Illumination Ltd.

Bungalow in Yew Tree Road, Dorking, Surrey. (Pages 134-135.) Architect: Bevil Greenfield, A.R.I.B.A. General contractor: Fred H. Bartlett Ltd. Sub-contractors: Electric wiring, Buchanan & Curwen Ltd.; electric light fixtures, General Electric Co. Ltd.; casements, Midland Woodworking Co. Ltd.

Canteen & Mechanics' Lobby Buildings, Gas Works, Bromley-by-Bow, E.3. (Pages 138-142.) Architect: Elie Mayorcas, F.R.I.B.A.

Quantity Surveyor: C. E. Kenney, F.R.I.C.S. General Contractor: Thomas & Edge Ltd. Sub-contractors: Excavation, dampcourses, joinery, Thomas & Edge Ltd.; foundations, reinforced concrete, Trussed Concrete Steel Co. Ltd.; asphalt, Ragusa, Asphalte & Paving Co.; bricks, Cement Marketing Board, artificial stone, Stuarts Ltd., Enfield Stone Co. Ltd.; roof trusses, Bracketing, Centering & Lathing Ltd.; tiles, Parkinsons Ltd.; built up ply roofs and aluminium decking, roofing felt, William Briggs & Sons Ltd.; lavatory partitions, Art Pavement & Decorations Ltd.; glass, Aygee & Co. Ltd.; lay lights, John Williams & Sons (Cardiff) Ltd.; concrete roof lights, Haywards Ltd.; woodblock flooring, Horsley Smith & Co. (Hayes) Ltd.; composition floors, Talbex Ltd.; hydraulic tiles, Jaconello Ltd.; granolithic floors, stair-treads, plaster, F. G. Bates & Son Ltd.; central heating, boilers, ventilation, J. Jeffreys & Co. Ltd.; gas fixtures, gas fittings, The North Thames Gas Board; electric light fixtures, Troughton & Young Ltd.; plumbing, Building Installations Ltd.; C.W.S. tank, Braithwaite & Co. Structural Ltd.; sanitary fittings, Stitsons Sanitary Fittings Ltd.; door furniture, Rennis Ltd.; casements, metal serving screen, pressed metal cills, window furniture, R. E. Pearse & Co. Ltd.; rolling shutters, G. Brady & Co. Ltd.; iron staircases, Fredrick Braby & Co. Ltd.; doors, Esavian Ltd., Saro Ltd.; kitchen equipment, Gardiner & Gulland Ltd.; cold store, Brett Daniels Ltd.; cement glaze, Robbs Cement Enamel Co. Ltd.; acoustic tiles, Horace Cullum & Co.; painting, Hadfield Paint Co.; metalwork, barriers, Clarks Hunt Ltd.; tiling, Parkinsons Ltd.; furniture, Dare-Inglis Products Ltd.; roads, paving, shrubs and trees, W. C. French & Co. Ltd.; cloakroom fittings, Speedwell Gear Case Co.; clocks, Smith & Co. Ltd.; sound equipment, Trix Electrical Co. Ltd.; water supply, Metropolitan Water Board; signs, The Lettering Centre.

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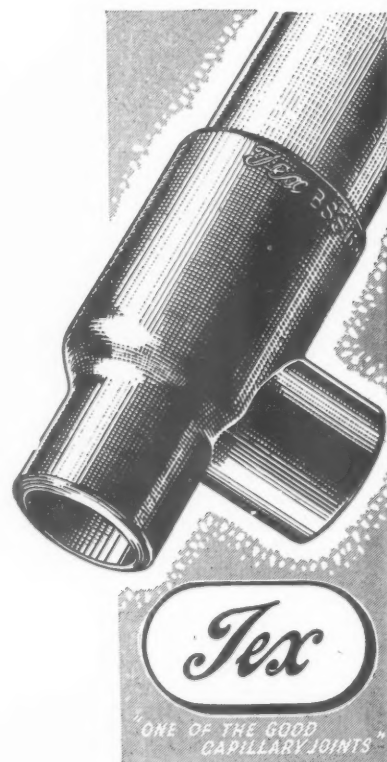
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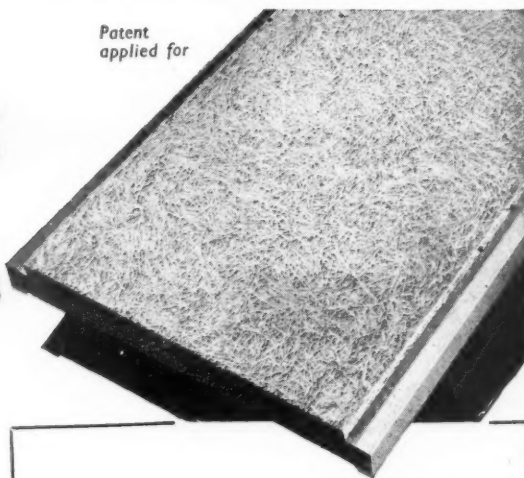
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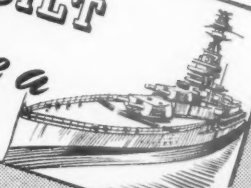
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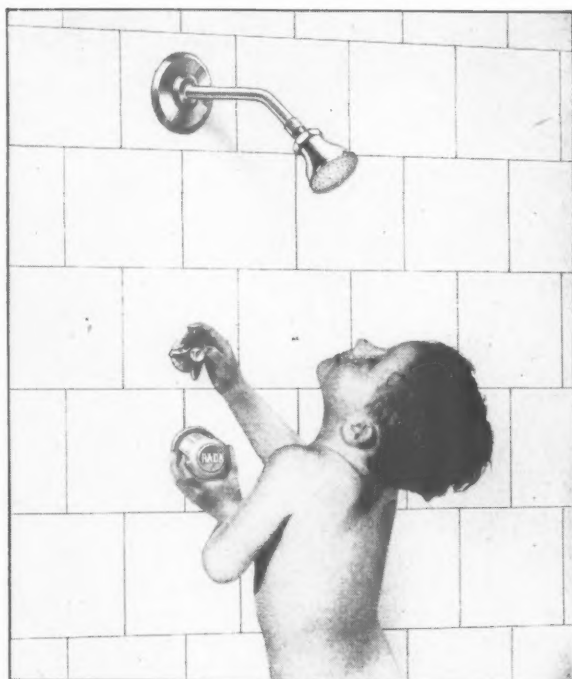
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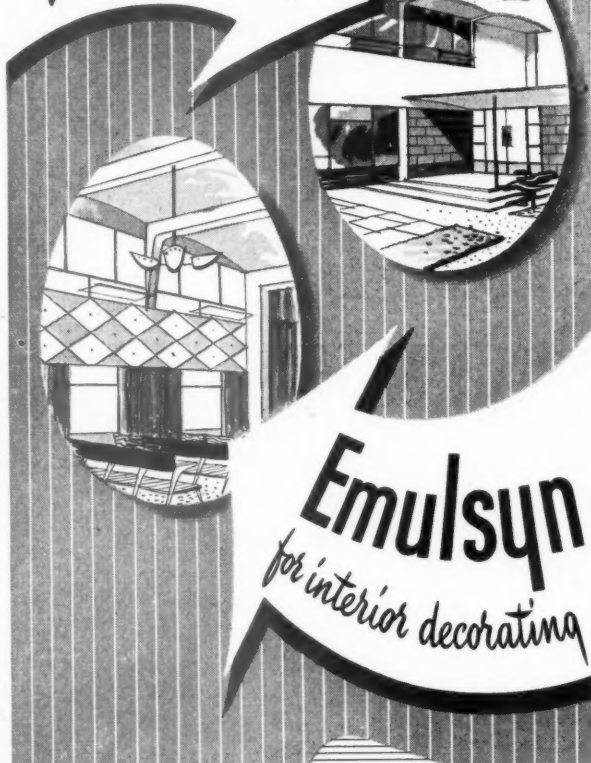
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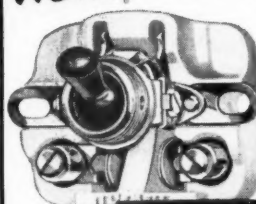


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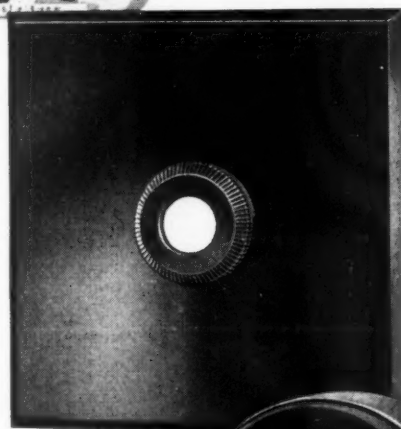
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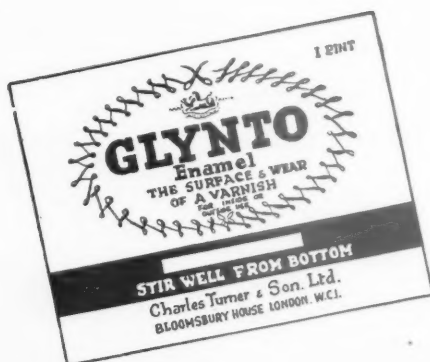
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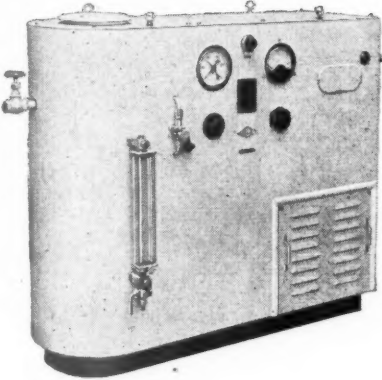


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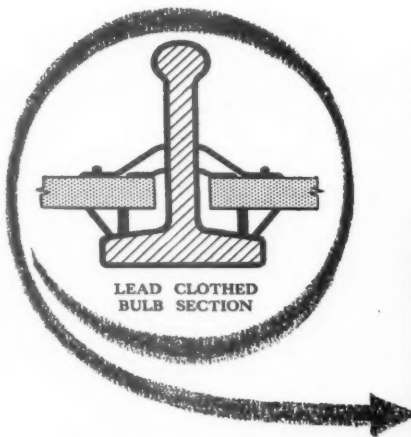


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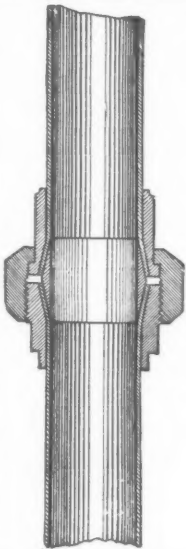


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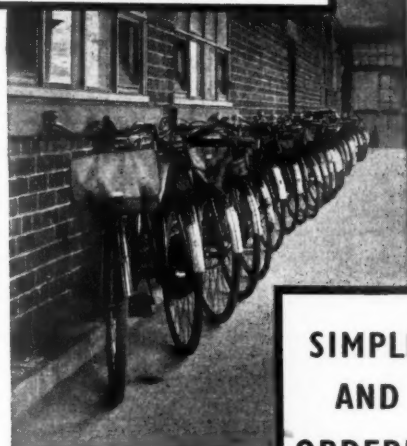
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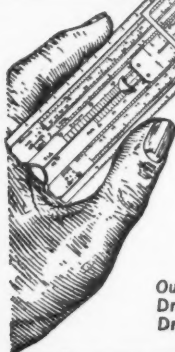
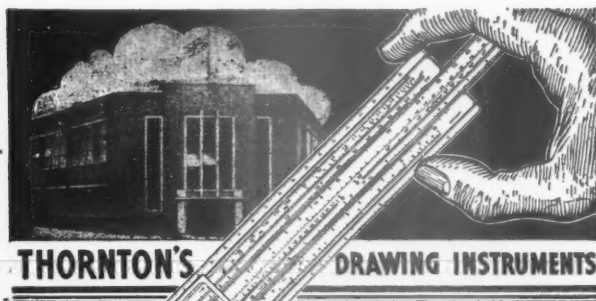
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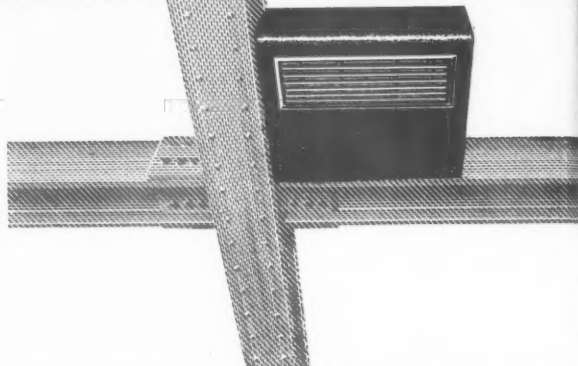


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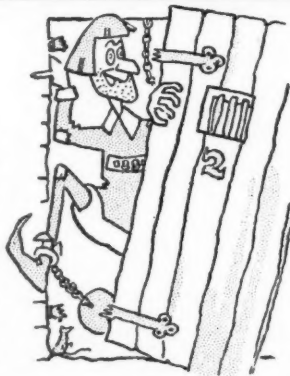
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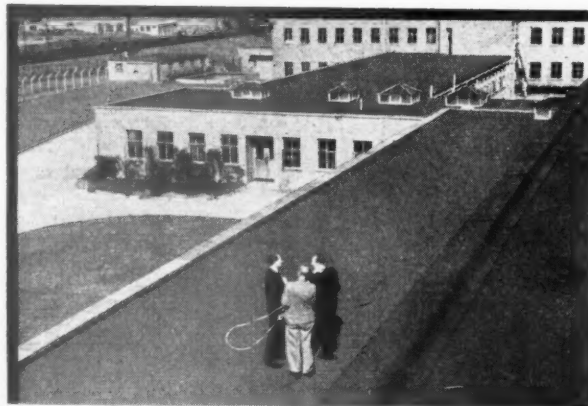
A rafter in the roof of Chichester Cathedral showing damage by the Death Watch Beetle.

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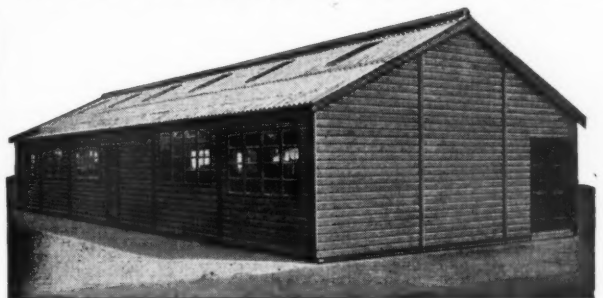
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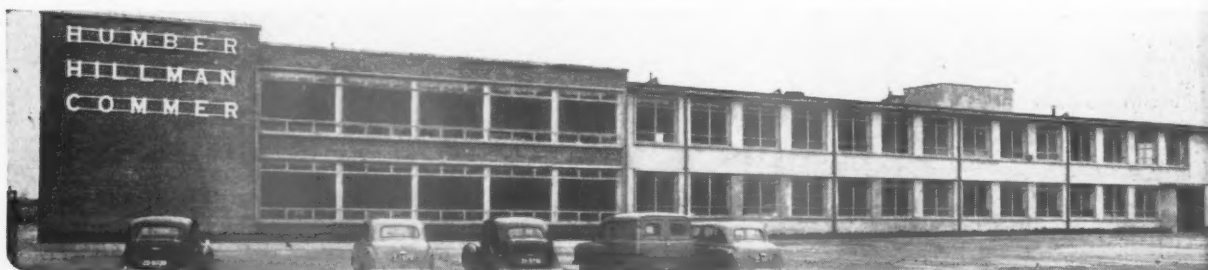
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# CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.  
 Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address given above.

## Public and Official Announcements

25s. per inch; each additional line, 2s.  
**LONDON COUNTY COUNCIL.**  
 Applications are invited for positions of ARCHITECTURAL ASSISTANT (salaries up to £880 basic a year) in the Housing and Valuation Department. Commencing salaries will be determined according to qualifications and experience. Engagement will be subject to the Local Government Superannuation Acts, and successful candidates will be eligible for consideration for appointment to the permanent staff on the occurrence of vacancies.

All rates of pay up to £600 a year (basic) are at present subject to an addition of 10 per cent. Successful candidates will be required to assist in the design, layout and preparation of working drawings for housing schemes, cottages and multi-storey flats, and will be employed in the Housing Architect's Division.  
 Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.W.1 (stamped addressed envelope required and quote reference A.A.1). Canvassing disqualifies. (816) 2616

**BOROUGH OF WORTHING.**  
**BOROUGH ENGINEER'S DEPARTMENT.**  
**ARCHITECTURAL STAFF.**  
 Applications are invited for the following appointments in the Architectural Section of the Borough Engineer's Department:—

(a) ARCHITECTURAL ASSISTANT. Grade A.P.T. III.  
 Commencing salary £500, rising by annual increments to £545. Applicants should have had experience in the design and preparation of working drawings, and preference will be given to applicants who have passed the Intermediate Examination of the R.I.B.A.

(b) ASSISTANT QUANTITY SURVEYOR. Grade A.P.T. IV.  
 Commencing salary £530, rising by annual increments to £575. Applicants should have passed the Intermediate Examination of the R.I.C.S. Sub-Section III, and must be capable of and have had experience in abstracting and billing and measurement of works on site. Experience in "taking off" would be an advantage.

Both appointments are subject to the National Scheme of Conditions of Service of Local Government Officers, to the Local Government Superannuation Act, 1937, and to the successful applicants passing satisfactorily a medical examination.

Applications, endorsed "Architectural Assistant, Grade III," or "Assistant Quantity Surveyor," as the case may be, stating age, status, qualifications, experience, present and past appointments with dates, and accompanied by copies of two testimonials, should be sent to the Borough Engineer and Surveyor, Town Hall, Worthing, not later than Tuesday, 7th August, 1951.

ERNEST G. TOWNSEND, Town Clerk.  
 16th July, 1951. 3098

**COUNTY COUNCIL OF RENFREW.**  
 Applications are invited for the following appointments in the County Engineer's Department:—

(a) SENIOR ARCHITECTURAL ASSISTANT. Salary scale, A.P.T. V-VI (£570-£710 p.a.).  
 (b) INTERMEDIATE ARCHITECTURAL ASSISTANT. Salary scale, A.P.T. I-II-III (£430-£535 p.a.).

Applicants should have wide experience of Local Authority Housing and Public Buildings. Preference will be given to Members of the R.I.B.A. and R.I.A.S.

The appointments are subject to the provisions of the Local Government Superannuation (Scotland) Act, 1937. Applications, stating age, qualifications and experience, together with copies of two recent testimonials, should be lodged within ten days with the County Clerk, County Buildings, Paisley.  
 18th July, 1951. 4015

**CITY AND COUNTY OF BRISTOL.**  
**CITY ARCHITECT'S DEPARTMENT.**  
 Applications invited for the appointment of SENIOR ASSISTANT ARCHITECT, in Grade VI (£645-£710) of the National Scales, from persons with considerable experience in architectural work of a Local Authority.

Applicants must be Associate Members of the R.I.B.A., or hold equivalent qualifications. The appointment is subject to the provisions of the Local Government Superannuation Acts and to the passing of a medical examination.

Housing accommodation provided, if necessary, at an economic rent.  
 Applications, stating age, training, qualifications, experience, past and present appointments and salary, and the names of two referees, must be delivered to the undersigned by the 7th August, 1951.

J. NELSON MEREDITH, F.R.I.B.A., City Architect.  
 Eagle House, Bristol, 1. 4019

**COUNTY BOROUGH OF HALIFAX.**  
**BOROUGH ENGINEER'S DEPARTMENT.**  
**APPOINTMENT OF QUANTITY SURVEYOR.**  
 Applications are invited for the above appointment at a salary in accordance with Grade A.P.T. VII (£685-£760).

Housing accommodation for the successful candidate will be provided if necessary. Candidates should possess appropriate technical qualifications and will be required to pass a medical examination. The appointment will be subject to the conditions of service adopted by the Corporation and to the Local Government Superannuation Act, 1937.

Candidates must disclose whether to their knowledge they are related to any member of or the holder of any senior office under the Council.  
 Applications, stating age, qualifications, present position, salary and experience, accompanied by copies of three recent testimonials, should be appropriately endorsed and delivered to the undersigned not later than Saturday, 11th August, 1951.

RICHARD DE Z. HALL, Town Clerk.  
 Town Hall, Halifax.  
 16th July, 1951. 3086

**URBAN DISTRICT COUNCIL OF PONTYPOL.**  
**APPOINTMENT OF ARCHITECTURAL ASSISTANT.**

Applications are invited for the post of Architectural Assistant, on the staff of the Council's Architect, at a salary in accordance with the National Scale, Grade A.P.T. VI, i.e., £545-£710. Applicants should be Members of the R.I.B.A., and preference will be given to candidates who have had experience of Council Housing Estates. A knowledge of Quantities is essential.

Housing accommodation, if necessary, will be provided for the successful applicant.  
 The post will be subject to the provisions of the Local Government Superannuation Act, 1937, and the National Conditions of Service. The successful applicant will be required to pass a medical examination. The appointment will be subject to one month's notice on either side.  
 Applications, stating age, qualifications and experience, accompanied by copies of two recent testimonials, should be delivered to the Council's Architect, Mr. W. H. C. Dawkes, Market Buildings, Pontypool, Mon., not later than Wednesday, the 15th August, 1951.

H. COOK, Clerk of the Council.  
 Town Hall, Pontypool. 4009

**HARROW URBAN DISTRICT COUNCIL.**  
**ENGINEER AND SURVEYOR'S DEPARTMENT.**

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

(a) ARCHITECTURAL ASSISTANTS (TWO). A.P.T. Grade IV. Salary scale, £530 to £575, plus London "weighting."

Office experience required. Preference will be given to applicants holding recognised professional qualifications. Duties include the preparation of sketch designs, working drawings, specifications and supervision of work under construction, both on new buildings and works of maintenance and repair.

(b) ARCHITECTURAL ASSISTANT. A.P.T. Grades II-III. Salary scale, £470 to £545, plus London "weighting."  
 Applicants should be students of the Royal Institute of British Architects, and should have had (a) full-time school training or (b) one year's office experience: three years if part-time school training only.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, to the passing of a medical examination, and to the National Joint Council's Scheme of Conditions of Service.  
 Forms of application (to be obtained from the undersigned) should be returned not later than Friday, 24th August, 1951.

The Council cannot assist in obtaining housing accommodation.

Canvassing will disqualify.

H. WELLS, Clerk of the Council.  
 Council Offices, Harrow, Middx. 4017

**ADMINISTRATIVE COUNTY OF EAST SUFFOLK.**

**APPOINTMENT OF PLANNING ASSISTANT (GRADE V. £570-£620).**

Applications are invited from suitably qualified persons for the appointment of Planning Assistant in the County Planning Department.  
 The duties of the appointment will comprise work in connection with the preparation of Development Plans, and candidates should have had experience in all aspects of Town and Country Planning, the preparation of factual surveys and the planning of towns and villages.

Applicants for the appointment should have passed the Associate Membership Examination of the Town Planning Institute. Qualifications in engineering, surveying or architecture would be an advantage.

Applications, stating age, qualifications, experience, present and past appointments, present salary, and giving names and addresses of two referees, to be delivered to the County Planning Officer, County Hall, Ipswich, not later than Saturday morning, the 18th August, 1951.

G. C. LIGHTFOOT, Clerk of the County Council.  
 County Hall, Ipswich.  
 20th July, 1951. 4035

**COUNTY BOROUGH OF CROYDON.**  
**ASSISTANT SURVEYOR (BUILDING).**  
**SCHOOL ARCHITECT'S SECTION.**  
 Applications invited from suitably qualified persons for appointment as Assistant Surveyor. Salary A.P.T. V, £570 to £620 per annum, plus London weighting £30 per annum at age 26 and over. Applications on forms obtainable from the Chief Education Officer, Katharine Street, Croydon, must be returned to him within two weeks of the appearance of this advertisement. No living accommodation is offered. Canvassing will disqualify.

E. TABERNER, Town Clerk.  
 3089

**HORNCHURCH URBAN DISTRICT COUNCIL.**  
 Applications are invited for the appointment of CHIEF ARCHITECTURAL ASSISTANT in the Engineer and Surveyor's Department, salary in accordance with Grade IX of the National Scheme, i.e., £790, rising by annual increments of £40 to a maximum of £910.

The Council will assist with the provision of housing accommodation for the successful applicant if required.

Full details of the appointment and Form of Application can be obtained on application to the undersigned, by whom completed applications should be received not later than the 14th August, 1951.

Applicants must be Associates of the Royal Institute of British Architects and have had wide experience of the design and construction of Municipal houses and public buildings generally, and should be competent to undertake the supervision of the Architect's Section of the Engineer and Surveyor's Department.

P. L. COX, Clerk of the Council.  
 Council Offices, Hornchurch, Essex.  
 July, 1951. 4033

**CITY AND COUNTY OF CANTERBURY.**  
**CITY ARCHITECT'S DEPARTMENT.**

The City Architect invites applications for the appointment of an ASSISTANT ARCHITECT. Salary scale, A.P.T. V (£570 per annum, rising to £620).

Applicants should be Associates of the Royal Institute of British Architects. Previous experience of Educational Buildings is desirable, but not essential. A keen interest and some experience in contemporary design is essential.

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

Applications, giving age, qualifications and experience, and the names and addresses of two persons to whom reference may be made, should be sent to L. Hugh Wilson, Esq., A.R.I.B.A., A.M.P.I., City Architect and Planning Officer, Municipal Buildings, Canterbury, not later than Friday, 17th August, 1951.

Canvassing, directly or indirectly, will be a disqualification.

J. BOYLE, Town Clerk.  
 Municipal Buildings, Dane John, Canterbury. 4053

**MAINTENANCE SURVEYOR (male)** required by Prison Commission in London. All candidates must be at least 25 on 1st January, 1951; have appropriate experience, and have obtained Corporate Membership of the Royal Institution of Chartered Surveyors (Building Section). London salary scale for men aged 30 and over: £660 x £25-£750. Lower starting salary for younger entrants (from £475 at age 25). Prospect of promotion to higher grades: Main Grade, £750 x £25-£1,000; Senior Grade, £1,050 x £35-£1,270. Temporary appointment in the first instance, but competitions for permanent posts are held from time to time for suitably qualified men of 25 to 34.

Application forms are obtainable from the Ministry of Labour and National Service, Technical and Scientific Register (K), York House, Kingsway, London, W.C.2. The reference J137/51 should be quoted.

4052

**BOROUGH OF ILKESTON.**  
**APPOINTMENT OF ARCHITECTURAL ASSISTANTS.**

**BOROUGH SURVEYOR'S DEPARTMENT.**  
 Applications are invited for the following appointments:—

(a) ONE ARCHITECTURAL ASSISTANT (A.P.T. Va).  
 (b) ONE ARCHITECTURAL ASSISTANT (Gen. Div. to Grade III), according to qualifications and experience.

Candidates for appointment (a) must be Registered Architects, with good experience in the design of houses and estate development. Previous Municipal experience will be an advantage.

Candidates for appointment (b) should preferably have the appropriate technical qualifications.

Applicants must disclose in writing whether or not they are related to any member or senior officer of the Council. Canvassing will disqualify.

Forms of application, conditions of appointment, and any other information, can be obtained from A. O. Marshall, M.I.Mun.E., M.I.Struct.E., F.I.A.A., Borough Surveyor and Water Engineer, Town Hall, Ilkeston, to whom the applications are to be submitted by Monday, 27th August, 1951.

No housing accommodation can be offered.  
 J. YATES, Town Clerk.  
 Town Hall, Ilkeston. 4049



COUNTY OF LINCOLN—PARTS OF

KESTVEN

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited from suitably qualified persons for the appointment of QUANTITY SURVEYOR in the above Department.

The applicant should be fully experienced in the preparation of quantities, specifications, site measurements, estimates, and settlement of contracts and accounts.

Salary will be in accordance with A.P.T., Grade VI, of the National Scales, i.e., £654, rising by annual increments of £20 and £25 to a maximum of £710 per annum. Commencing salary will be in accordance with experience. Car and subsistence allowances will also be paid.

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

Applications, giving full particulars of age, experience and qualifications, together with the names and addresses of two referees, should reach the undersigned not later than the 17th August, 1951.

J. E. BLOW,

Clerk of the County Council.

County Offices, Sleaford, Lincs. 4048  
25th July, 1951.

CORBY DEVELOPMENT CORPORATION.

Applications are invited from suitably qualified persons for the following appointments. Salaries offered are in accordance with the scales at present agreed by the Corporation, and may be subject to review in September.

(a) ARCHITECTURAL ASSISTANTS (TWO);  
(b) ENGINEERING ASSISTANT (ONE), at £550 × £25—£650.

The appointments are required in connection with large scale construction projects associated with the development of a New Town, and candidates must have had suitable experience in, for appointment (a) drawing, construction, etc., under an Architect, and for (b) drawing, surveying, etc., under an Engineer.

The successful candidates will be required to pass a medical examination and to contribute either to a Superannuation or an Assurance Scheme.

Applications, stating age, education, training, qualifications, experience, past and present appointments and salaries, together with the names of two persons who can speak from recent personal knowledge of the applicant and to whom the Corporation can refer, must be received by the undersigned not later than Monday, 13th August, 1951. Envelopes and applications must clearly indicate the appointment for which application is made.

R. F. BROOKS GRUNDY,

General Manager.

The Stone House, South Road,  
Corby, Northants. 4059

CITY OF BATH.

CITY PLANNING AND ARCHITECTURAL DEPARTMENT.

AMENDED ADVERTISEMENT.

Applications are invited for the appointment of CHIEF ARCHITECTURAL ASSISTANT, Grade A.P.T., VII (£685-£760 per annum). Applicants must be Registered Architects, and preference will be given to those who are Associates of the Royal Institute of British Architects. They should have good experience in design and construction of Municipal housing and other works. The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

Applications, stating age, qualifications and experience, together with the names and addresses of three referees, should be sent to the City Planning Officer and Architect, 2, Princes Buildings, Bath, not later than the 18th August, 1951. The Corporation are prepared to render assistance to the successful candidate in securing housing accommodation if required.

JARED E. DIXON,

Town Clerk.

Guildhall, Bath. 4047  
26th July, 1951.

COMMONWEALTH OF AUSTRALIA.  
DEPARTMENT OF WORKS AND HOUSING.  
ARCHITECTS

are required on Design and Construction work associated with National Defence Projects and Developmental Works in all States of the Commonwealth and in New Guinea.

Projects include:  
Post Offices and Telephone Exchanges, airports, defence works, hospitals and sanatoria, multi-storied Government buildings, workshops and factories, laboratories, residences.

Salary between £662 and £1,285 per annum, according to academic qualifications and experience, with higher rates for personnel selected for more senior positions.

Passages paid but appointees required to remain in Commonwealth Service for three years. Excellent prospect of further period if service is satisfactory, and permanent appointment may be offered to suitable persons.

Splendid opportunity for single men. Houses will be available for married men within reasonable period after arrival.

Technical Officers from Australia will interview during August.

Applications to be addressed to:

THE PUBLIC SERVICE BOARD

REPRESENTATIVE.

Australia House, The Strand, London, W.C.2. 4026

HUNTINGDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

APPOINTMENT OF A SENIOR QUANTITY SURVEYING ASSISTANT.

Applications are invited for the appointment of a Senior Quantity Surveying Assistant, at a salary in accordance with Grade Va, A.P.T., of the National Council's scales, £600 × £20 to £660 per annum.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937.

Applications, stating age, qualifications, experience, present position and salary, together with copies of two recent testimonials or the names of two persons to whom reference could be made, should be delivered to S. J. Hands, A.R.I.B.A., County Architect, County Buildings, Huntingdon, by Tuesday, 14th August, 1951.

JOHN KELLY,

Clerk of the County Council.

County Buildings, Huntingdon. 4034  
26th July, 1951.

COUNTY BOROUGH OF HALIFAX.

BOROUGH ENGINEER'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT (SCHOOLS).

Applications are invited for the appointment of Architectural Assistant (Schools), at a salary in accordance with Grade A.P.T., VI (£645-£710). The successful candidate will be engaged on the building and planning of new schools. The appointment will be subject to the conditions of service adopted by the Corporation and to the Local Government Superannuation Act, 1937. Candidates must disclose whether to their knowledge they are related to any member of or holder of any senior office under the Council.

Applications, stating age, qualifications, present position, salary and experience, accompanied by copies of three recent testimonials, should be appropriately endorsed and delivered to the undersigned not later than Wednesday, 15th August, 1951.

RICHARD DE Z. HALL,

Town Clerk.

Town Hall, Halifax. 4030  
19th July, 1951.

CITY OF CARDIFF.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

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

ARCHITECTURAL ASSISTANTS (HOUSING).

A.P.T., Grade VI (£645-£710 per annum).

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

General conditions of appointment may be obtained from the undersigned.

The Council will assist in finding housing accommodation for the successful candidates.

Applications, accompanied by the names and addresses of three referees, endorsed "Architectural Assistant, Grade VI," should be delivered to the undersigned not later than the 20th August, 1951.

S. TAPPER-JONES,

Town Clerk.

City Hall, Cardiff. 4029  
July, 1951.

SUDAN GOVERNMENT.

The Public Works Department requires a DISTRICT ENGINEER, aged 26-34, for service in the Sudan for the organisation and control of construction and maintenance of buildings, roads and other works.

Candidates should be Corporate Members of the Institution of Civil Engineers or hold qualifications exempting them from Parts A and B of this Institution's Associate Membership Examination or be Associate of the Royal Institute of British Architects.

Appointment will be on a Short Term Contract for a period of two years, with or without eligibility for bonus as may be agreed. Salary ranges between £E.771 and £E.1,438 if contract provides for a bonus and £E.822 and £E.1,533 if it does not. Starting rate would be determined according to age, qualifications and experience.

A cost-of-living allowance is at present payable from £E.142 to £E.352 per annum, according to the number of dependents.

An outfit allowance of £E.60 is payable when the contract is signed provided salary does not exceed £E.1,012 per annum on Short Term Contract.

No income tax is at present payable in the Sudan.

Further information and application form may be obtained on written application to the Sudan Agent in London, Wellington House, Buckingham Gate, London, S.W.1. Please mark envelopes "District Engineer 4/19 S.T." 4028

R.B.C. has temporary vacancy for CLERK OF WORKS for work on construction of the scenery block at White City, London. At least 10 years' experience as Clerk of Works on large commercial or industrial building contracts is required. Please give full details of qualifications and experience, with dates and brief descriptions of works engaged upon. Starting salary £655 p.a. (possibly higher if qualifications and experience are exceptional, with five annual increments to maximum £840. Applications to reach Engineering Establishment Officer, Broadcasting House, London, W.1, within 7 days. 4045

BOROUGH OF WIDNES.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT at a salary in accordance with A.P.T., Grade IV, of the National Scale of Salaries, commencing at the minimum of the Grade.

Applicants must be Student R.I.B.A. and have worked in an architectural office for at least two years subsequent to having passed the Intermediate Examination.

The appointment will be subject to the National Scheme of Conditions of Service as adopted by the Council, and to the local Government Superannuation Act, 1937, and to the successful candidate passing a medical examination.

Applications, stating full particulars of age, experience, and qualifications, etc., together with the names and addresses of two referees, to be sent to the Borough Architect, Brendan House, Widnes Road, Widnes, not later than 31st August, 1951.

Canvassing, directly or indirectly, will disqualify.

FRANK HOWARTH,

Town Clerk.

Town Hall, Widnes. 4023  
20th July, 1951.

URBAN DISTRICT COUNCIL OF CORBY.

APPOINTMENT OF TRACER/DRAUGHTSMAN (MALE OR FEMALE).

Applications are invited for the above appointment, in the department of the Engineer and Surveyor, at a salary in accordance with Grade III of the Miscellaneous Division of the National Scale of Salaries, commencing at £355 per annum. The provisions of the Local Government Superannuation Act, 1937, will apply.

Applicants must be neat and expeditious draughtsmen, well experienced in the tracing of Architectural and Engineering drawings and tracings from ordnance maps, and must be able, also, to undertake lettering thereon of a high standard.

Housing accommodation will be made available to the selected candidate (if married) after a period of 3 months' satisfactory service.

Application forms, to be obtained from the undersigned, should be completed and submitted not later than 12 noon on Monday, the 13th August, 1951.

G. B. BLACKALL,

Clerk of the Council.

Council Offices, Corby, Northants. 4028  
20th July, 1951.

LONDON ELECTRICITY BOARD.

DRAUGHTSMEN.

Applications are invited to fill several vacancies in the Drawing Office of the Western Sub-Area at Eccleston Place, Victoria, S.W.1, from candidates having the requisite training and experience for one or other of the following Sections:—

(a) Sub-stations:—  
Layout of switchgear, transformers and associated equipment for indoor type sub-stations up to 11 k.V.

(b) Mains:—  
Network planning, development and maintenance of cable route plans and operational diagrams at Sub-Area Headquarters or in individual Districts.

Training up to ordinary or higher National Electrical standard and with workshop training preferred, but not essential.

Pending grading of the posts under the National Agreement of the appropriate negotiating body, the commencing salaries will be as shown below:—

Engineering Draughtsmen: from £500 per annum inclusive.  
Draughtsmen: from £400 per annum inclusive, dependent upon qualifications and experience.

Application forms obtainable from Establishments Officer, 46, New Broad Street, E.C.2, to be returned duly completed within 10 days from the date of the appearance of this advertisement. Please enclose addressed foolscap envelope and quote Ref. EST/V/1275 A. on all correspondence. 4027

COUNTY COUNCIL OF THE COUNTY OF

LANARK.

HOUSING DEPARTMENT.

Applications are invited for the following appointments:—

(a) FIRST ASSISTANT ARCHITECT. Salary scale, £900 to £1,000 per annum.

(b) ARCHITECTURAL ASSISTANT. Salary A.P.T., Grade VIII (£735 to £810 per annum).

Applicants for (a) should be Fellows of Associates of R.I.B.A., and have experience of the design and construction of large housing developments. Applicants should also have administrative experience and be capable of taking control of Architectural Staff.

Applicants for (b) should be Fellows of Associates of R.I.B.A., and have experience in the preparation of working drawings for housing developments.

The appointments will be subject to the provisions of the Local Government Superannuation (Scotland) Act, 1937, and successful applicants will require to pass a medical examination.

Canvassing, directly or indirectly, will be a disqualification.

Applications, stating age, particulars of appointments, experience and qualifications, together with names and addresses of three referees, to be lodged with S. McColl, A.R.I.B.A., F.R.I.A.S., County Housing Architect, 23, Beckford Street, Hamilton, not later than 13th August, 1951.

WM. C. BROWNLEE,

County Clerk.

Lanarkshire House.  
191, Ingram Street, Glasgow, C.1. 4032



**HIS MAJESTY'S COLONIAL SERVICE—  
LEEWARD ISLANDS.**

A vacancy exists for a **BUILDER SURVEYOR**, in the Public Works Department, Leeward Islands, in the salary scale £600-£800 per annum, the point of entry depending on war service and experience. Appointment will be on secondment or agreement for three years. A temporary cost-of-living allowance is, at present, payable at the rate of £100 per annum. Free passages to and from the Leeward Islands will be provided for the officer, his wife, and up to three children under the age of 15. Leave will be granted on completion of the tour of service. Quarters are not provided.

Candidates, preferably with architectural qualifications, should have considerable experience of building design, construction and maintenance, and should be able to prepare quantities and estimates. They should write for further particulars and a form of application to the Director of Recruitment, Colonial Service, Colonial Office, Sanctuary Buildings, Great Smith Street, London, S.W.1, giving brief particulars of age, qualifications and experience, quoting Reference No. 27076/61. 4021

**HIS MAJESTY'S COLONIAL SERVICE.  
MALAYA.**

A vacancy exists for an **ASSISTANT TOWN PLANNER** in the Town Planning Department, Malaya, in the salary scale £742 to £1,652 per annum, the point of entry being determined by War service and approved experience. A cost-of-living allowance varying from £336 per annum for a bachelor to £707 per annum for a married man, is also payable. Appointment is on three years' probation for pensionable employment.

Free passages are provided once each way each tour for the officer, his wife, and up to three children under the age of 10. Quarters, if available, are provided at a low rent. Leave is granted at the rate of four days for each month of resident service in a tour of 3-4 years. Candidates, between the ages of 28 and 35, must be A.M.T.P.I., preferably with other professional qualifications, and with a good knowledge of recent Town Planning Legislation. They should write to the Director of Recruitment (Colonial Service), Colonial Office, Sanctuary Buildings, Great Smith Street, London, S.W.1, for further particulars and a form of application, giving brief details of age, qualifications and experience, and quoting No. 27281/12. 4040

**BOROUGH OF SCARBOROUGH.  
APPOINTMENT OF ARCHITECTURAL  
ASSISTANT.**

Applications are invited for the permanent position of **ARCHITECTURAL ASSISTANT**, Grade A.P.T., V (£570-£620), in the Borough Engineer's Department. The position is superannuable. Housing accommodation is available if required. Applications, stating age, experience, qualifications, past and present appointments, and the names of two persons to whom reference may be made, to each the undersigned by Tuesday, 14th August, 1951.

**H. V. OVERFIELD, M.I.C.E.,**

Borough and Water Engineer.

Town Hall, Scarborough. 4044

**BOROUGH OF EALING.  
BOROUGH ENGINEER AND SURVEYOR'S  
DEPARTMENT.**

Applications are invited for the permanent appointment of a **SENIOR ARCHITECTURAL ASSISTANT**. Candidates must be either Associate Members of the Royal Institute of British Architects or possess a recognised equivalent qualification. Candidates with Municipal experience preferred.

The salary for the appointment will be within Grades VII-VIII of the A.P.T. Division of the National Scheme of Conditions of Service (£715-£840 per annum, inclusive of London weighting). The Council are unable to provide housing accommodation for the successful candidate.

Forms of application, together with Conditions of Appointment, may be obtained from the Borough Engineer and Surveyor, Town Hall, Ealing, W.5, and must be returned to me not later than the 13th August, 1951.

**E. J. COPE-BROWN,**

Town Clerk.

23rd July, 1951. 4043

**NATIONAL COAL BOARD—WEST MIDLANDS  
DIVISION.**

**ARCHITECT**, Grade I. Salary £700×£25 to £875 per annum. Commencing point according to qualifications and experience. Commencing salary of £1,800 per annum. Forms of application with full particulars from the Secretary of the Association, 15-21, Palmerston Place, Edinburgh, 12, in whose hands all applications must be lodged within 14 days of the appearance of this advertisement. Canvassing will be a disqualification. 4061

**ARCHITECTURAL ASSISTANT**, Grade I. Salary £410×£20 to £550 per annum. Commencing point according to qualifications and experience. Applicants should be able to prepare sketch plans and working drawings from rough sketches, and have a good knowledge of construction, and have passed the Intermediate Examination of the R.I.B.A.

Both posts are eligible for the Board's Superannuation Scheme. Applications, giving age, qualifications, experience, etc., to be sent as soon as possible to the:

**ESTABLISHMENT OFFICER,**

National Coal Board,

West Midlands Division, 4031

**THE NORTH-WESTERN ELECTRICITY  
BOARD.****NO. 6 (LAKELAND) SUB AREA.  
ENGINEER, SUB AREA TECHNICAL  
APPOINTMENT OF THIRD ASSISTANT  
ENGINEER'S DEPARTMENT.**

Applications are invited for the appointment of **Third Assistant Engineer** in the Building and Civil Engineering Section at the No. 6 (Lakeland) Sub-Area Headquarters, Castle Green, Kendal.

Applicants should have had experience as Clerk of Works, with a thorough knowledge of all sections of the building trade, be capable of setting out, giving levels, measuring up, keeping all necessary site records and rendering reports.

The duties will include those of Clerk of Works on buildings now in course of erection, and the appointed person will also be subsequently responsible for the maintenance and repair of the Board's property in No. 6 Sub-Area.

The salary for the post will be in accordance with the National Joint Board Revised Agreement, Class H, Grade 10, i.e., £571/£584/£597 per annum.

Applications, stating age, education and experience, present post and salary, should be received by the Sub-Area Manager, No. 6 (Lakeland) Sub-Area, Castle Green, Kendal, not later than Saturday, 11th August, 1951. 4054

**SOUTH AUSTRALIAN SCHOOL OF MINES  
AND INDUSTRIES.**

Applications are invited for the position of **SENIOR LECTURER** in the Department of Architecture. Salary range £1,086 to £1,131 (Aust.) per annum. Applications close 22nd August. Further details from Agent-General and Trade Commissioner, South Australia House, Marble Arch, London, W.1. 4038

**CITY OF WESTMINSTER.****HOUSING DEPARTMENT.**

Applications are invited for the position of **JUNIOR ARCHITECTURAL ASSISTANT**. Salary A.P.T., Grade I, of National Scales, viz. £440×£15-£485 per annum, plus London weighting (£10, £20 or £30 per annum, according to age). Applicants should have had architectural training as students, and they should have had general experience in an Architect's office.

Applications, marked "Junior Architectural Assistant—Housing Department," stating full name, age, experience and present and past appointments, whether related to any member or chief officer of the Council, with copies of two recent testimonials, must be received by 9 a.m. on Monday, 20th August, 1951.

**PARKER MORRIS,**

Town Clerk.

Westminster City Hall, 4036

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

Applications are invited for the appointment of **SENIOR ASSISTANT ARCHITECT** (Post No. 156), at a salary in accordance with Grade A.P.T., VII, of the National Scales, i.e., £735-£810 per annum.

The department has a large housing programme in hand and the work involved in the design and construction of housing estates, houses, flats, shops, etc., as well as the planning problems associated with central area redevelopment, offer many opportunities for a well qualified Assistant Architect with a sound knowledge of contemporary design and construction.

The appointment is subject to the Local Government Superannuation Act, 1937, including medical examination. Application must be made to the City Engineer and Surveyor for form of application (quoting post number), to be returned together with details of experience and not more than three testimonials to the undersigned not later than 1st September, 1951. Canvassing will disqualify. No housing accommodation can be provided.

**W. H. LEATHEN,**

Town Clerk.

Town Hall, Bradford. 4060

**CONSTRUCTION MANAGER. SCOTTISH  
SPECIAL HOUSING ASSOCIATION, LIMITED.**

Invite applications for this post from persons having extensive experience in the execution of house building and civil engineering works of some magnitude on widely scattered sites. Experience in the control of a large staff of agents essential, along with (a) ability to organise site operations and work to time and progress schedules, and (b) knowledge of builders' administration, including cost control and bonus systems. The post is superannuable and carries a salary of £1,800 per annum. Forms of application with full particulars from the Secretary of the Association, 15-21, Palmerston Place, Edinburgh, 12, in whose hands all applications must be lodged within 14 days of the appearance of this advertisement. Canvassing will be a disqualification. 4061

**Tenders for Contracts**

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

**COUNTY BOROUGH OF READING.****TO BUILDERS AND CONTRACTORS.**

The Corporation of Reading invite tenders for the erection of 185 houses on the Bath Road Estate, Reading.

The General Conditions of Contract and Drawings may be inspected at the office of the Borough Architect, Town Hall, Reading, and Bills of Quantities, Form of Tender with endorsed

envelope, may be obtained on application to him, accompanied by a cheque (made payable to the Reading Corporation) for two guineas, which will be refunded on receipt of a bona fide tender.

Tenders must be delivered to the undersigned not later than Wednesday, the 22nd August, 1951.

No tender will be considered unless enclosed in the endorsed envelope provided and sealed, but 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.

July, 1951.

4050

**Architectural Appointments Vacant**

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

**ARCHITECTURAL ASSISTANT** required in private Guildford office. Applicants should have reached Intermediate R.I.B.A. standard. Write stating previous experience and salary required to Box 3099.

**REQUIRED** at Company's Head Office, Guildford. **ARCHITECTURAL ASSISTANT**, R.I.B.A. Intermediate standard. Varied work, mainly factory. Five-day week. Salary by arrangement. Box 4011.

**ARCHITECT** or **SURVEYOR** required by a London Company controlling group of public buildings. Must be qualified to prepare drawings, specifications, and supervise all building and maintenance work, alterations, renovations and decorations. Please write, giving age, education, qualifications, experience and salary required, to Managing Director. Box 4042.

**QUALIFIED ARCHITECTURAL ASSISTANT** required by T. P. Bennett & Son, 43, Bloomsbury Square, W.C.1. Should have 1-2 years' office experience; good draughtsman; surveying experience desirable. Write, stating experience, salary required, etc., Box 4027.

**WANTED—DRAUGHTSMAN**, to detail large Frame construction in Precast Reinforced Concrete. Position would suit a good Architectural or Engineering Assistant, with some sound experience. A permanent, interesting position to the right man. Apply, stating age, experience, and salary required, to Box 4012.

**SENIOR ARCHITECTURAL ASSISTANT** required at once—preferably with experience of, and capable of taking control of Large Housing Contracts, etc. Salary offered £750-£900 per annum according to experience. Offices in Kensington area. Five-day week. Box 3087.

**ARCHITECTURAL ASSISTANTS**, Inter. standard, required for work in North Africa, approximately 6 weeks, August to September. Phone for interview Mayfair 0250. 4057

**FULLY** trained and experienced **ASSISTANT**, about 35 years' old, required in London Architect's Department. Must be capable of designing and supervising work of good-class and of preparing specifications of new buildings and maintenance repairs. Secure future for suitable applicant. Write, stating age, details of past work, and salary required. Box 4058.

**ARCHITECTURAL AND BUILDING DRAUGHTSMEN** (one Senior and several Juniors) required for Consultants' Office in London. Juniors should have experience in one or more of the following:—Reinforced concrete and precast block construction, roads, water supply and drainage. Write, with full particulars of age, experience, and salary required, to Box 5103, c/o Charles Barker & Sons, Ltd., 31, Budge Row, London, E.C.4. 4051

**ARCHITECTURAL DRAUGHTSMAN**, with experience of factory building construction, for permanent position on maintenance staff. Varied and interesting work under good conditions and superannuation for keen man. Please give full details of education, experience, age, and whether married or single, to Group Engineer, Coates Brothers, Ltd., St. Mary Cray, Kent. 4065

**CAPABLE ASSISTANT** required for busy varied Architectural practice. Telephone Scott & Westmoreland, Chancery 7790, for appointment. 4064

**IMPORTANT** Manufacturing Firm has a vacancy in its Engineering Department for an **INDUSTRIAL ARCHITECT**, with some civil engineering experience. The successful applicant will be expected to accept responsibility for building, maintenance, minor building extensions, and civil engineering works in connection with the new plant installation. A good salary will be paid, depending upon age and experience. Staff pensions scheme in operation. Apply, quoting Ref. A.14, to Box 4062.

**CHARTERED ARCHITECT** in Bloomsbury Area requires **ASSISTANT**, to take full charge of building construction details on large industrial project. Must be fully conversant with contemporary and traditional methods. Reply, stating age, experience, and salary required. Box 4063.

**ARCHITECTURAL DRAUGHTSMEN** required by Midlands Industrial Firm, with large Prefabricated School Construction Programme. Preferably capable of taking sectional control. Full details of experience, etc., and salary required to Box 4066.

### Architectural Appointments Wanted

**ARCHITECTURAL** position wanted by young lady (23) in Bristol or Bath area. Two years' training also four years' office experience. Box 3081.

**ARCHITECT** (Dist. Dipl. Arch.) with 3 years' experience requires position in small office engaged on contemporary work. Box 205.

**YOUNG woman ASSOCIATE**, with 5 years' office experience, used to handling complete contracts from design to site supervision, seeks a job in a progressive London office. Salary about £700. Box 210.

**A. R.I.B.A.** (Dipl. Arch.), aged 30, single, seeks progressive position in country practice at home or abroad. Box 211.

**A. R.I.B.A.** (aged 34), with good varied experience of housing, factories, offices, public houses, hotels and alterations, requires a post of permanency in order that children's education may not be interrupted. Box 208.

**STUDENT R.I.B.A.**, just passed Finals Exam. (Dip. Arch.—Birmingham), seeks position in South Midlands or West Country. Box 209.

**SENIOR ASSISTANT** (32), with varied experience, including housing and industrial work, and used to administration, seeks position in the Cheltenham-Oxford area. Box 207.

**ASSISTANT**, approaching Final standard, over 5 years' office experience, aptitude for contemporary design, available September, requires position with small firm in City, West End London, S.W. Essex. Box 212.

**YOUNG ARCHITECT AND SURVEYOR**, studying for Final R.I.C.S., seeks post in South London or Kent. Good knowledge of Building Construction and neat Draughtsman. Box 213.

### Other Appointments Vacant

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

**QUANTITY SURVEYOR** for busy provincial office at Newark-on-Trent. Qualified man with experience. Good salary for good man. Modern House available. **SAUNDERS & PARTNERS**, Architects and Surveyors, 24, Castle Gate, Newark-on-Trent. 3059

**REPRESENTATIVE** required by London firm of Engineers and Ironfounders to the Building Trade. Main contacts Civil Engineering and Architectural Profession. To cover Northern Counties. Domicile Sheffield area preferred. Write, giving full details experience, age, and salary, to Box 4046.

**DRAUGHTSMEN**.—An important Canadian Chemical firm requires for employment in Montreal, Canada, experienced Draughtsmen, having some years' experience in Chemical plant layout, piping layouts, and design of Chemical equipment. Salaries for suitable men would range between \$260 and \$300 a month, depending upon the candidates' experience. No assistance will be given towards transportation to Canada. Applicants should reply to Box No. 695, c/o Dawson's, 28, Craven Street, W.C.2, and suitable candidates will be interviewed in Birmingham, reasonable expenses being paid. 4041

### Services Offered

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**ARCHITECTURAL DRAUGHTSMEN**, Inter. standard, require part-time work. 'Phone RAV. 0800, London. 4055

**CIVIL ENGINEER**, B.A., D.I.C., A.M.I.C.E., experienced reinforced concrete design and construction, offers services part time. London area. Box 4024.

**EXPERIENCED ARCHITECTURAL DRAUGHTSMAN** will execute Presentation Drawings, Working Drawings, Perspectives, etc., as part-time work in own home. London area. Box 4025.

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**FOR SALE**.—Sir Banister Fletcher's "History of Architecture," latest edition; 52s. 6d. post free.—London Book Co., 391, St. John Street, E.C.1. 3076

**ARCHITECTURAL** and Surveying Practice for disposal, South Coast town. Well established, with good connections. Certified accounts available. Box 4056.

### Miscellaneous

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### Educational Announcements

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**R.I.B.A. EXAMS**.—Mr. L. Stuart Stanley, M.A., F.R.I.B.A., M.T.P.I., Distn. in T.P. (Tutor in the School of Arch. Lon. Univ.) and Mr. G. A. Crockett, B.A., A.R.I.B.A. (Medallist), A.M.T.P.I., F.R.S.A., prepare Students by correspondence tuition. Stuart Stanley & Crockett, 10, Adelaide Street, Strand, W.C.2. TEM. 1603/4

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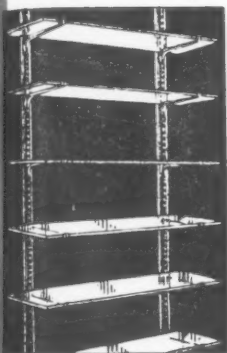
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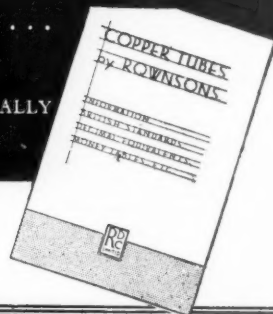
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