

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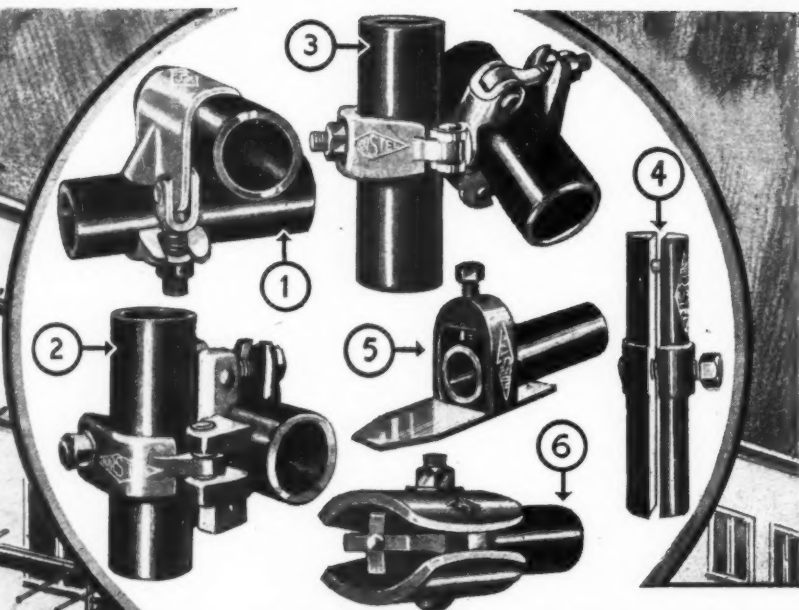
★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to H one week, I to Z the next. In all cases where the town is not mentioned the word LONDON is implicit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

AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhamstead, Herts.	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Welbeck 5721
ABT	Association of Building Technicians. 5, Ashley Place, S.W.1.	Victoria 0447-8
ACGB	Arts Council of Great Britain. 4, St. James' Square, S.W.1.	Whitehall 9737
ADA	Aluminium Development Association. 33, Grosvenor Street, W.1.	Mayfair 7501/8
APRR	Association for Planning and Regional Reconstruction. 34, Gordon Square, W.C.1.	Euston 2158-9
ArchSA	Architectural Students' Association. School of Architecture, Manchester Municipal School of Art, All Saints, Manchester, 15.	Ardwick 3480
ARCUK	Architects' Registration Council. 68, Portland Place, W.1.	Welbeck 9738
ASB	Architectural Science Board of the Royal Institute of British Architects. 66, Portland Place, W.1.	Welbeck 5721
AScW	Association of Scientific Workers. 15, Half Moon Street, Piccadilly, W.1.	Grosvenor 4761
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Welbeck 5721
BATC	Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1.	Reliance 7611, Ext. 1706
BC	Building Centre. 9, Conduit Street, W.1.	Mayfair 8641/6
BCC	British Colour Council. 28, Sackville Street, W.1.	Regent 3613
BCCF	British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13.	Perivale 6869
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham.	Redditch 716
BDA	British Door Association. 25, Victoria Street, S.W.1.	Abbey 5422-3
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2.	Temple Bar 9434
BGC	British Gas Council. 1, Grosvenor Place, S.W.1.	Sloane 4554
BGF	British Gas Federation. 1, Grosvenor Place, S.W.1.	Sloane 8266
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.	Glasgow Central 2891
BIAE	British Institute of Adult Education. 29, Tavistock Square, W.C.1.	Euston 5385
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Chancery 7772
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Langham 2785
BOT	Board of Trade. Millbank, S.W.1.	Whitehall 5140
BRS	Building Research Station. Bucknalls Lane, Watford	Garston 2246
BSA	British Steelwork Association. Eggington House, Buckingham Gate, S.W.1.	Victoria 7301-2-3
BSA	Building Societies Association. 14, Park Street, W.1.	Mayfair 0515
BSI	British Standards Institution. 28, Victoria Street, S.W.1.	Abbey 3333
CAS	County Architects Society. C/o A. Guy Chant, F.R.I.B.A. Salop County Council, 5, Belmont, Shrewsbury.	Shrewsbury 3031
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Sloane 5255
CDA	Copper Development Association. Kendals Hall, Radlett Herts.	Radlett 5616
CIAD	Central Institute of Art and Design. 41, 42, Dover Street, W.1.	Regent 3074
CIAM	Congrès Internationaux d'Architecture Moderne. Dolderal, 7, Zurich, Switzerland	
CID	Council of Industrial Design. Tilbury House, Petty France, S.W.1.	Whitehall 6322
CPC	Codes of Practice Committee. MOW, 42, Onslow Gardens, S.W.7.	Kensington 8161
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.W.	Sloane 4280
CUJC	Coal Utilization Joint Council. 54, Victoria Street, S.W.1.	Victoria 9851
DIA	Design and Industries Association. 9, Conduit Street, W.1.	Mayfair 5432
DOT	Department of Overseas Trade. 37, Old Queen Street, S.W.1.	Victoria 9040
EC	Electricity Commission. Savoy Court, Strand, W.C.2.	Temple Bar 7565
EJMA	English Joinery Manufacturers Association (Incorporated). Sackville House, 40, Piccadilly, W.1.	Regent 4448
EPNS	English Place-Name Society. 7, Selwyn Gardens, Cambridge.	
FAS	Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
FASSC	Federation of Association of Specialists and Sub Contractors. 21, Tothill Street, S.W.1.	Whitehall 9606
FBI	Federation of British Industries. 21, Tothill Street, S.W.1.	Whitehall 6711
FC	Forestry Commission. 25, Savile Row, W.1.	
FCMI	Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.	Sloane 1002
FDMA	Flush Door Manufacturers Association. Stapleford Road, Trowell, Nottingham.	Ilkeston 623/4/5
FLD	Friends of the Lake District. Pennington House, Nr. Ulverston, Lancs.	Ulverston 201
FMB	Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1.	Chancery 7583
FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1.	Langham 4041
FS (Eng.)	Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
GG	Georgian Group. 27, Grosvenor Place, S.W.1.	Sloane 2844
HC	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Whitehall 2881
IAAS	Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1.	Sloane 3158
ICE	Institution of Civil Engineers. Great George Street, S.W.1.	Whitehall 4577
ICW	Institute of Clayworkers. 4, Vernon Place, W.C.1.	Chancery 6258

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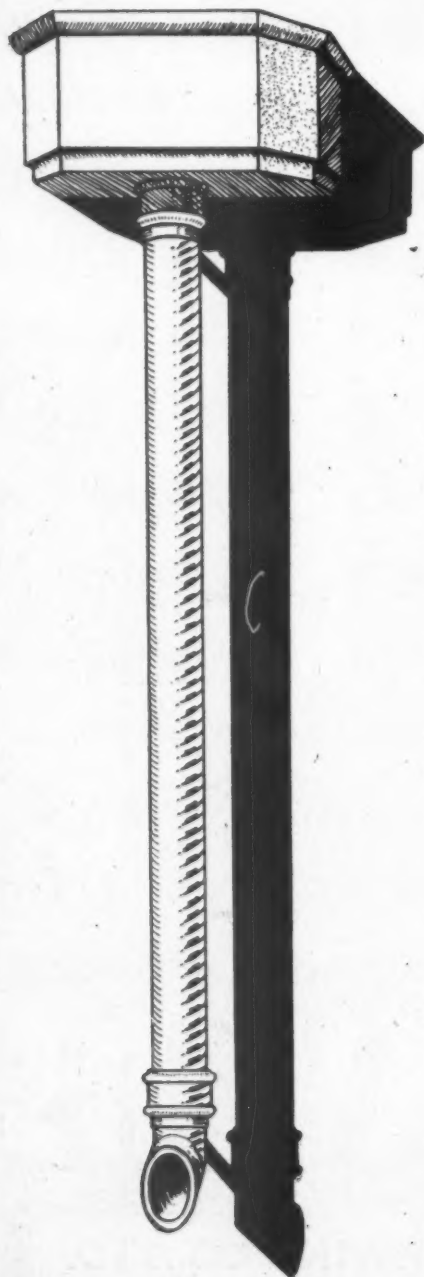
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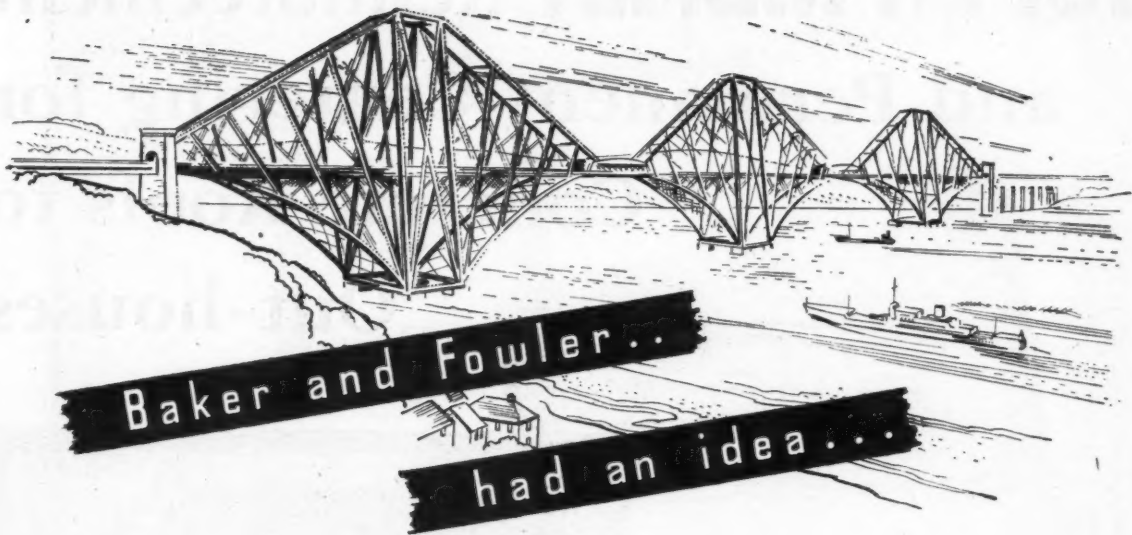


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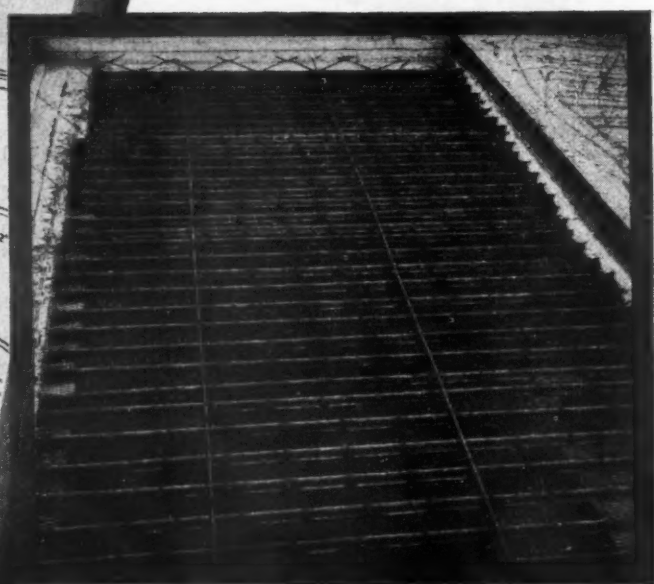
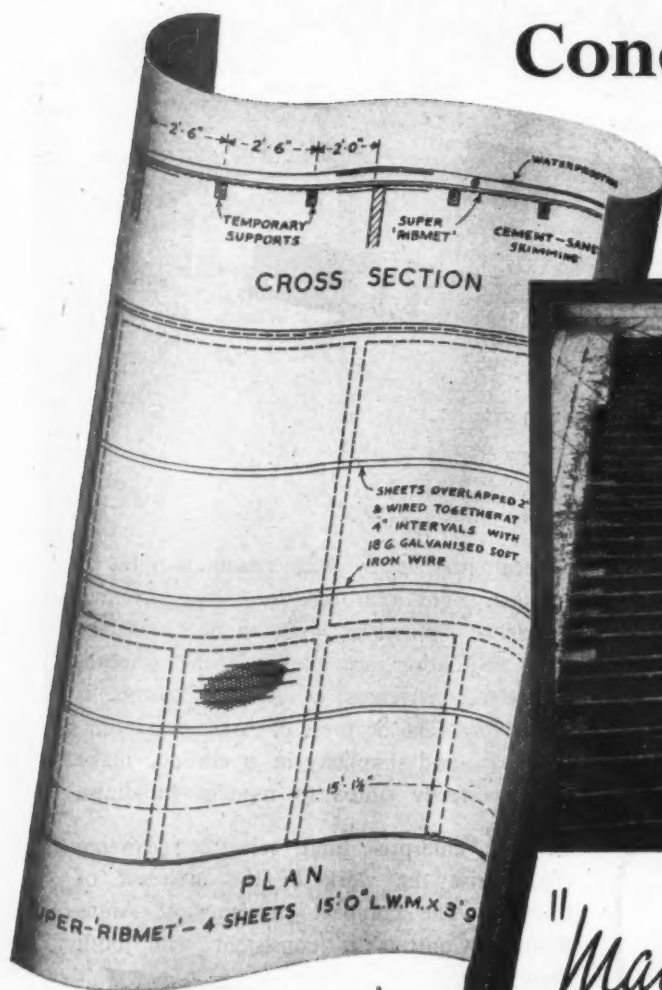


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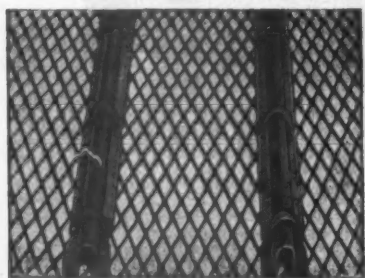
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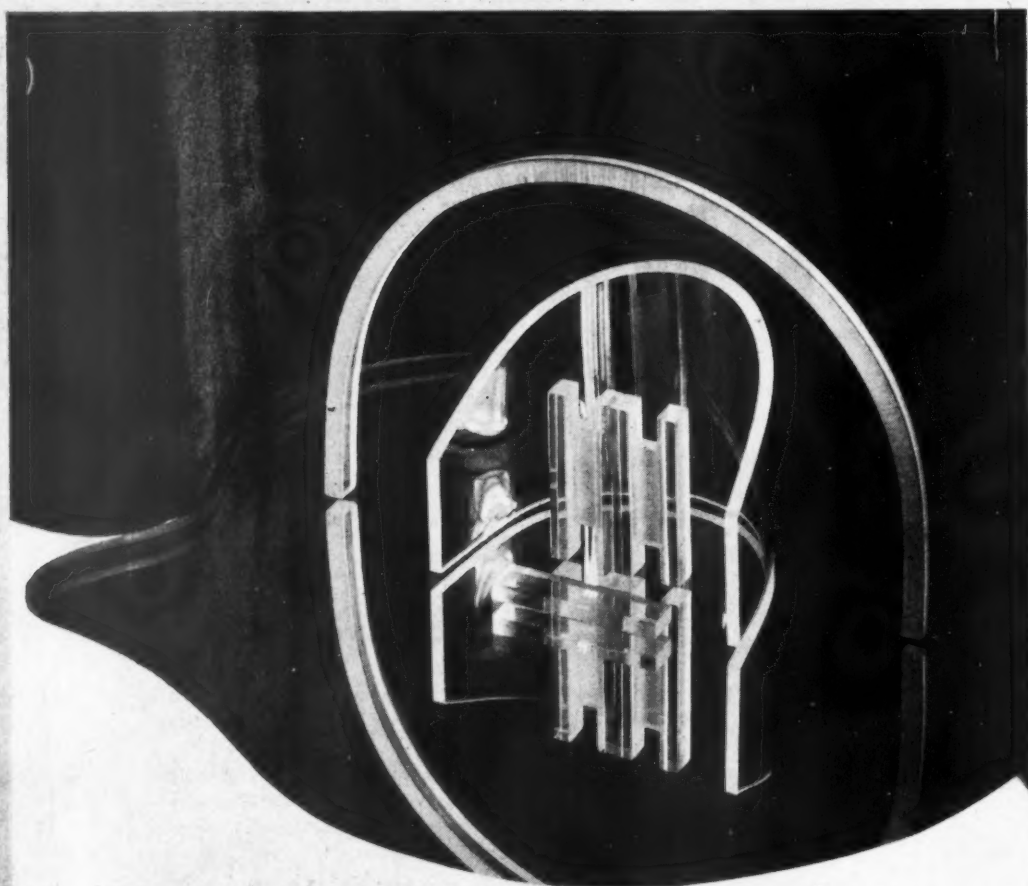
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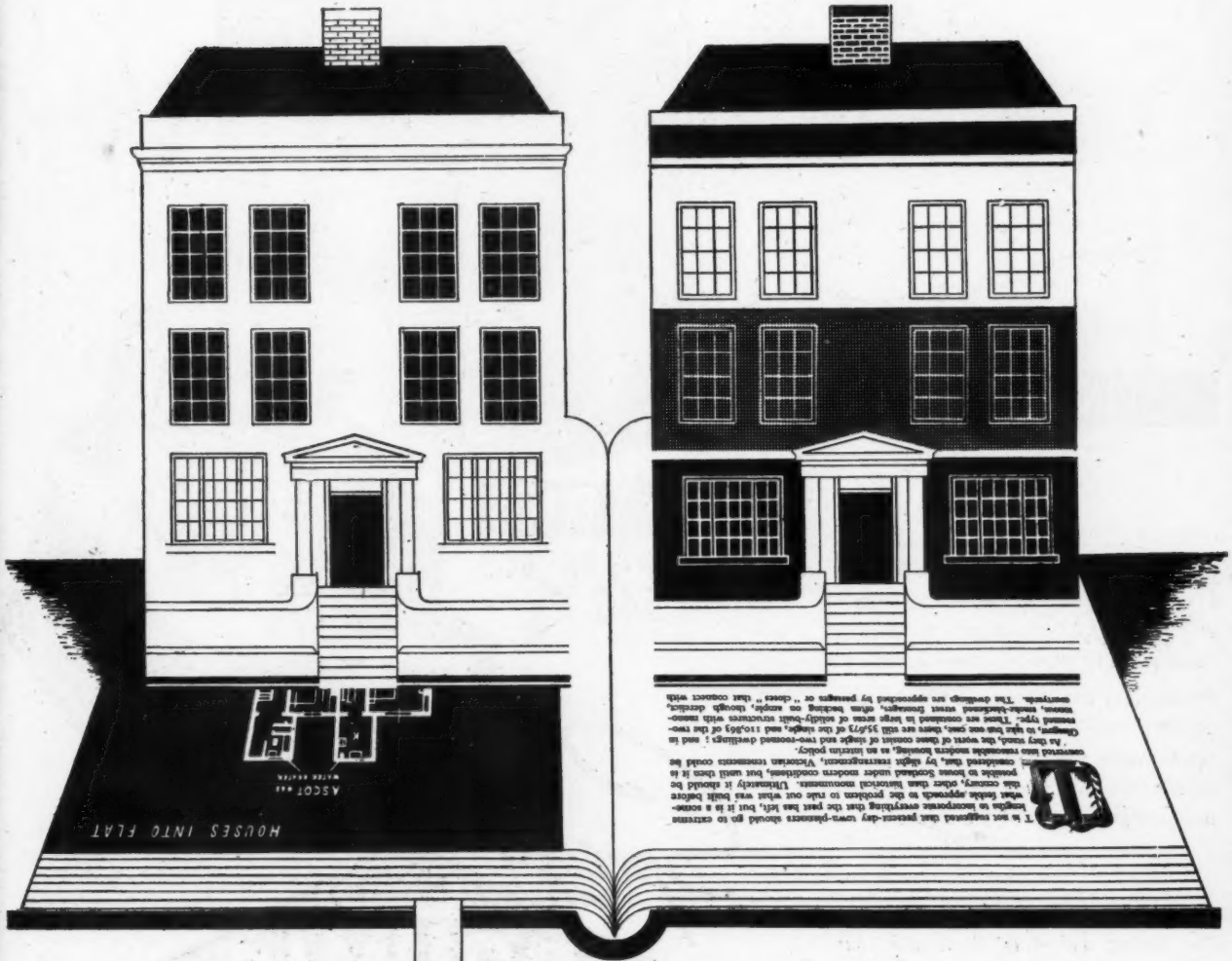
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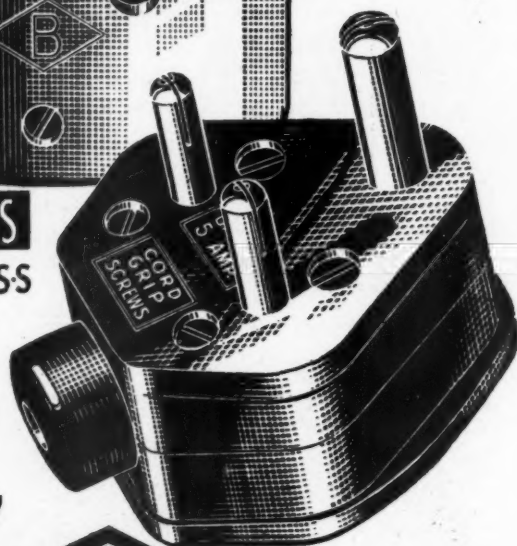
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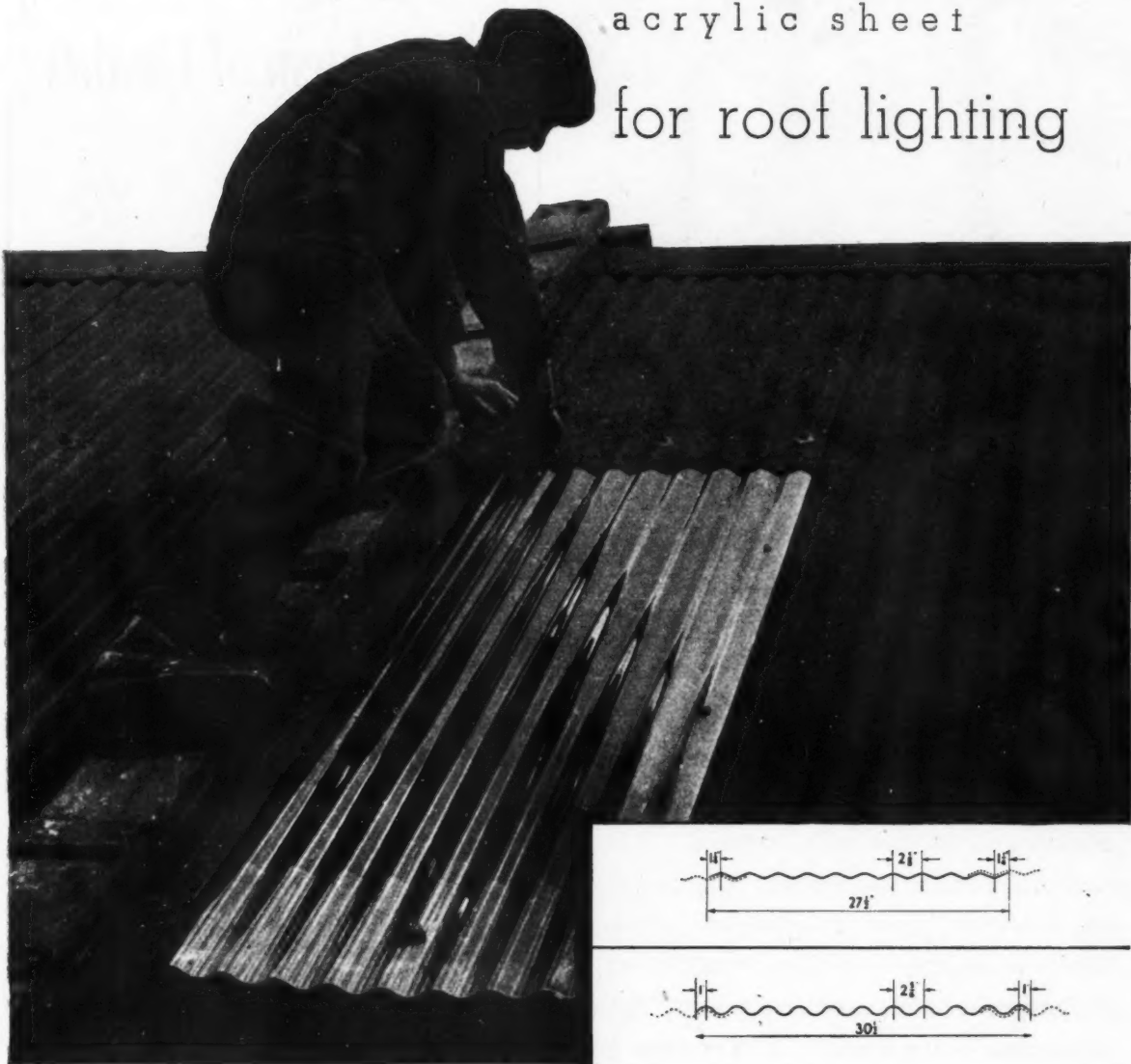
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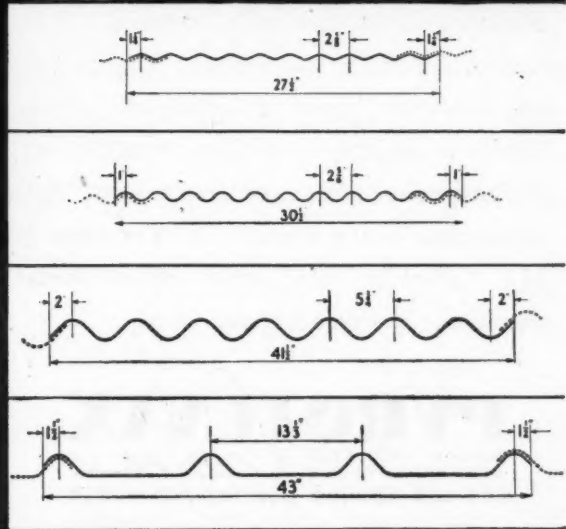
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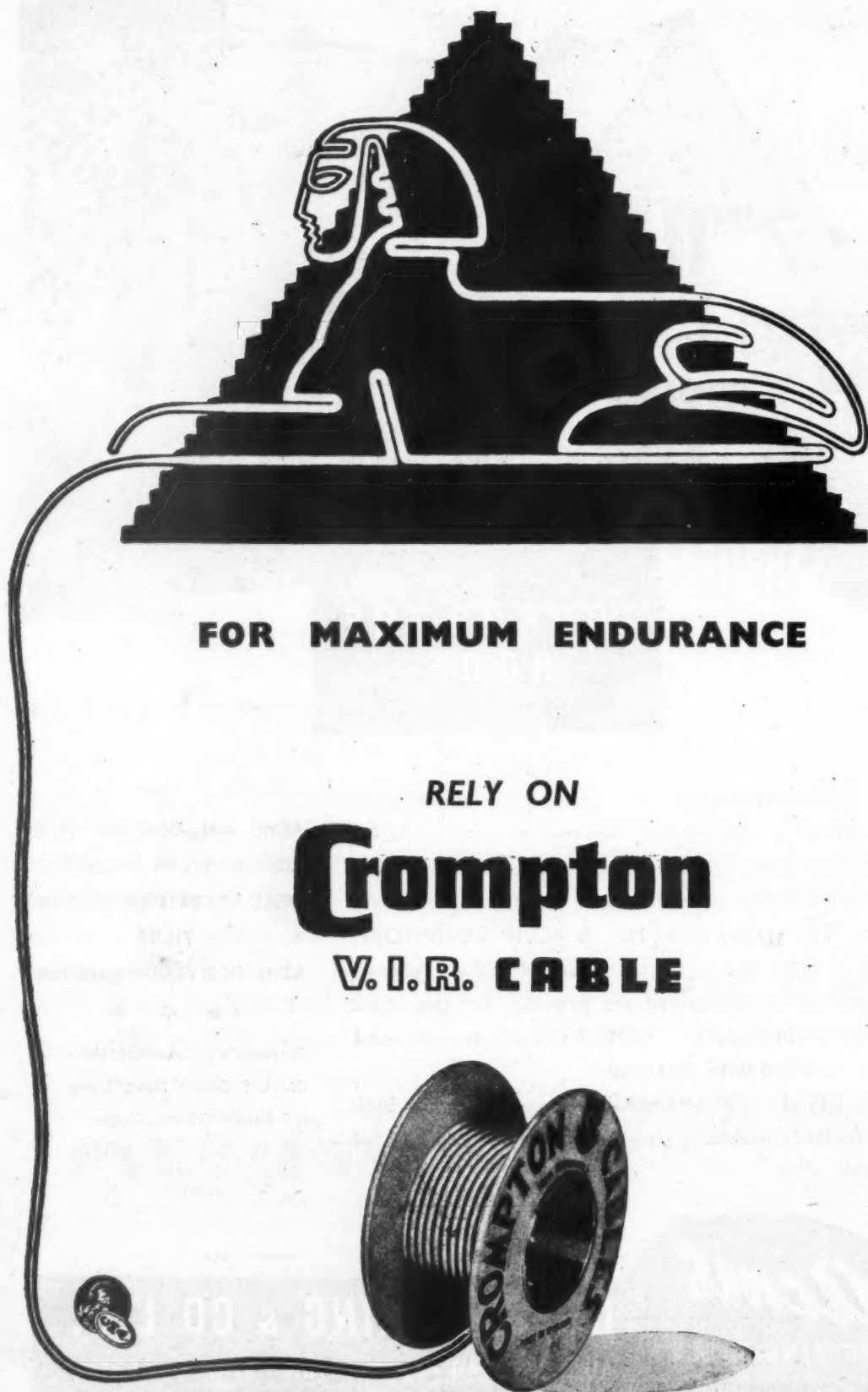
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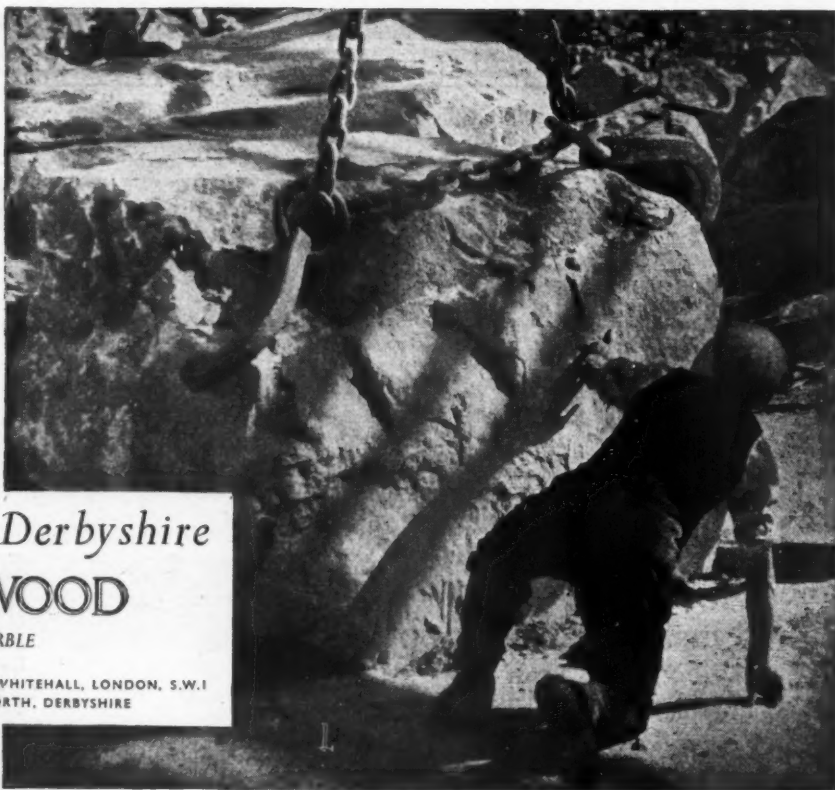
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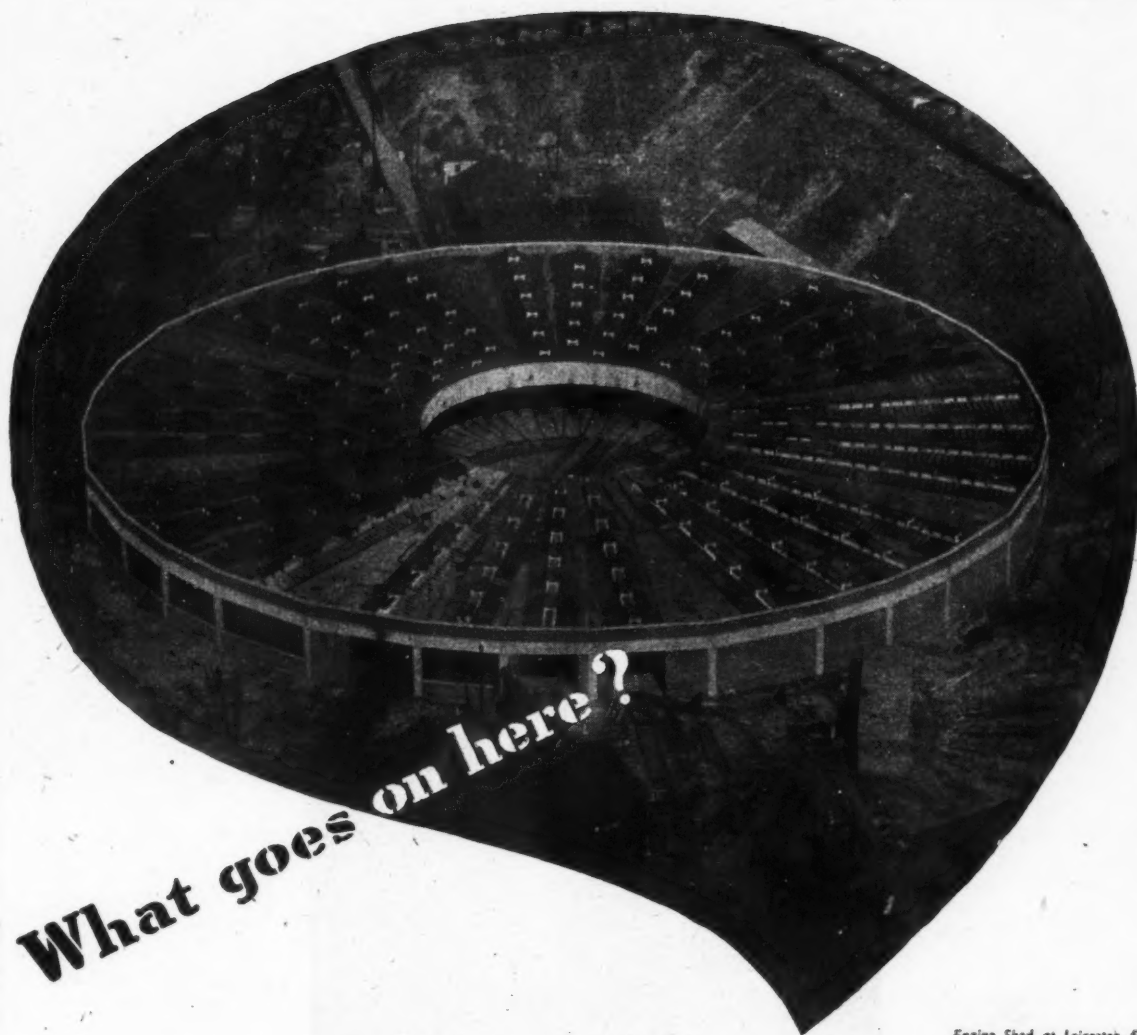
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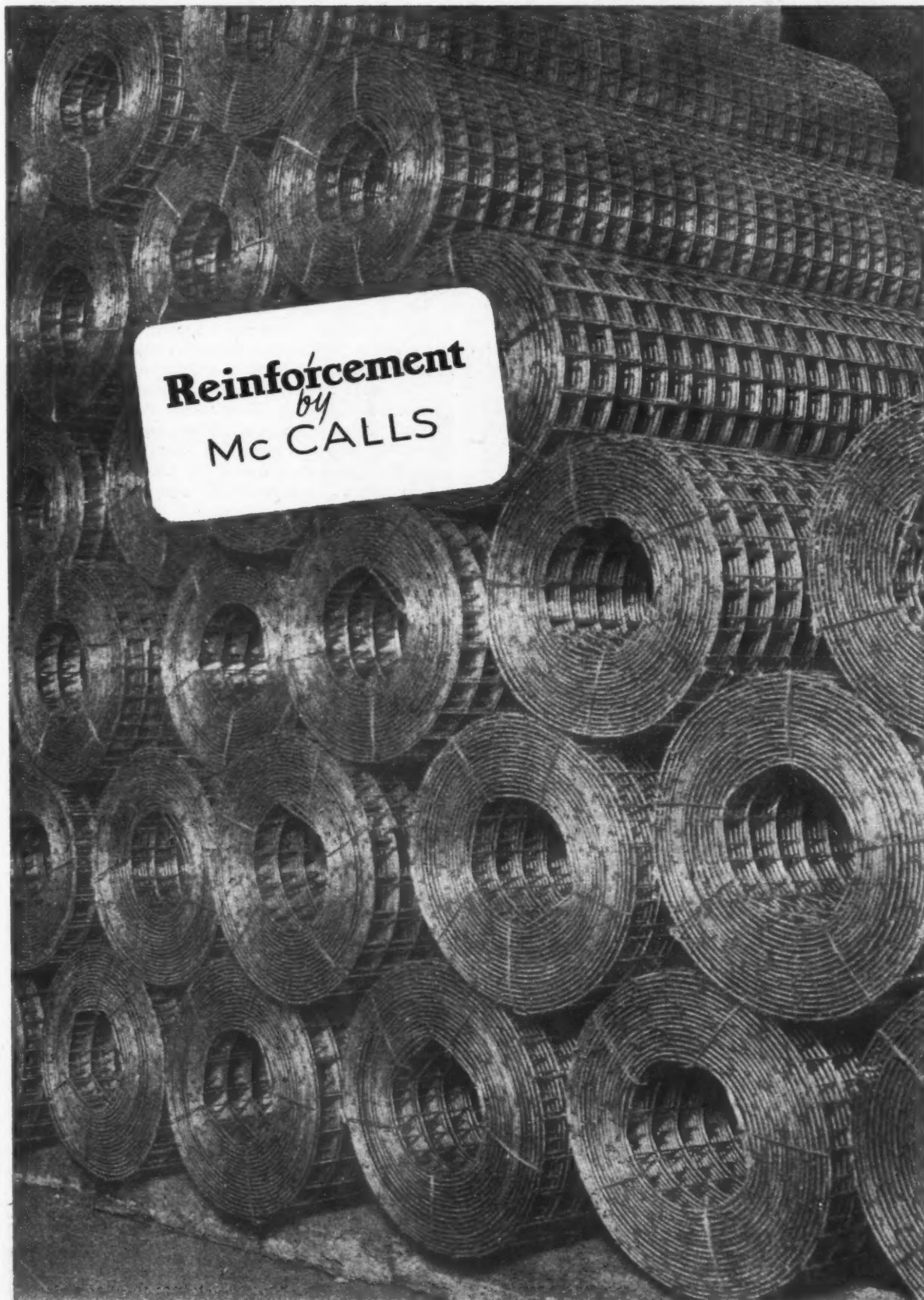
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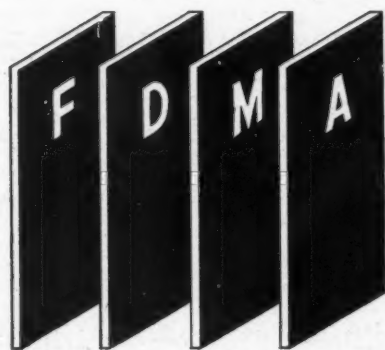
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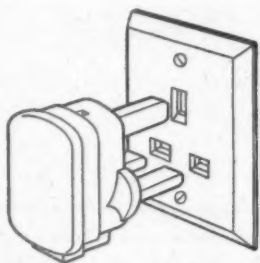
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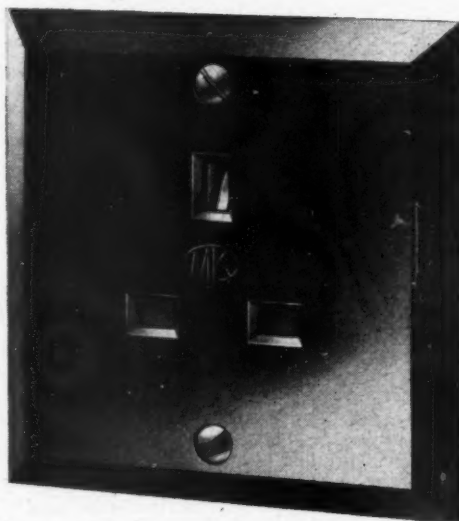


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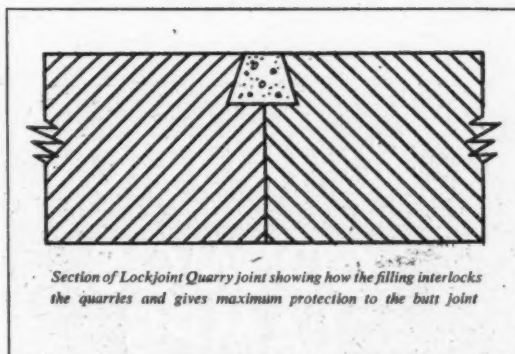


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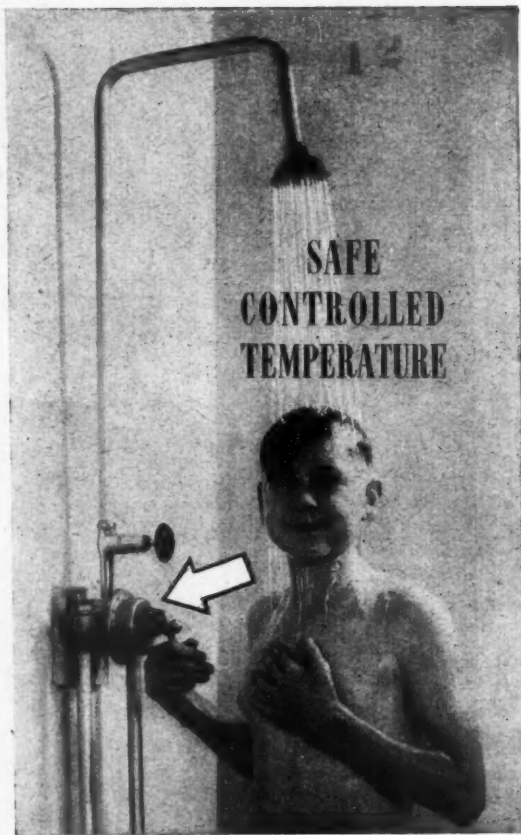
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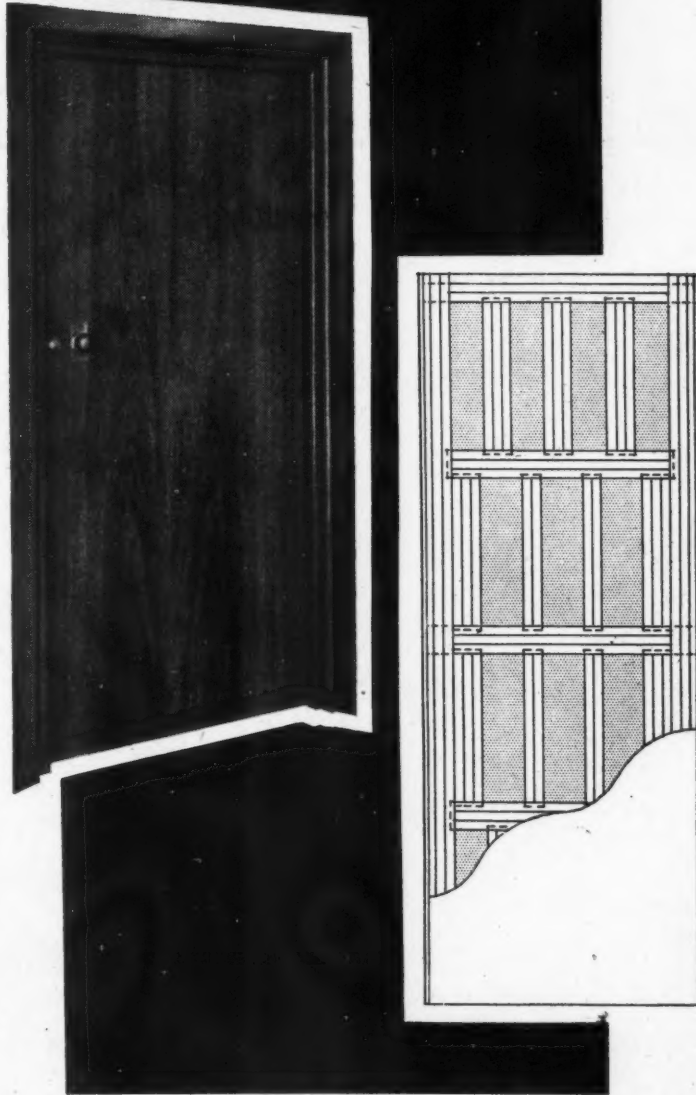
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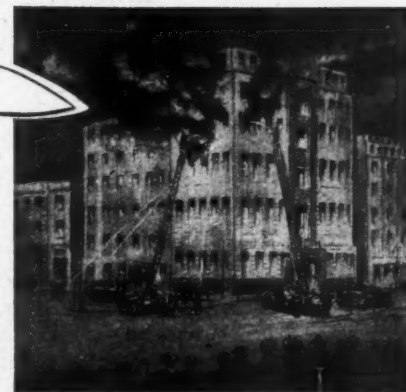
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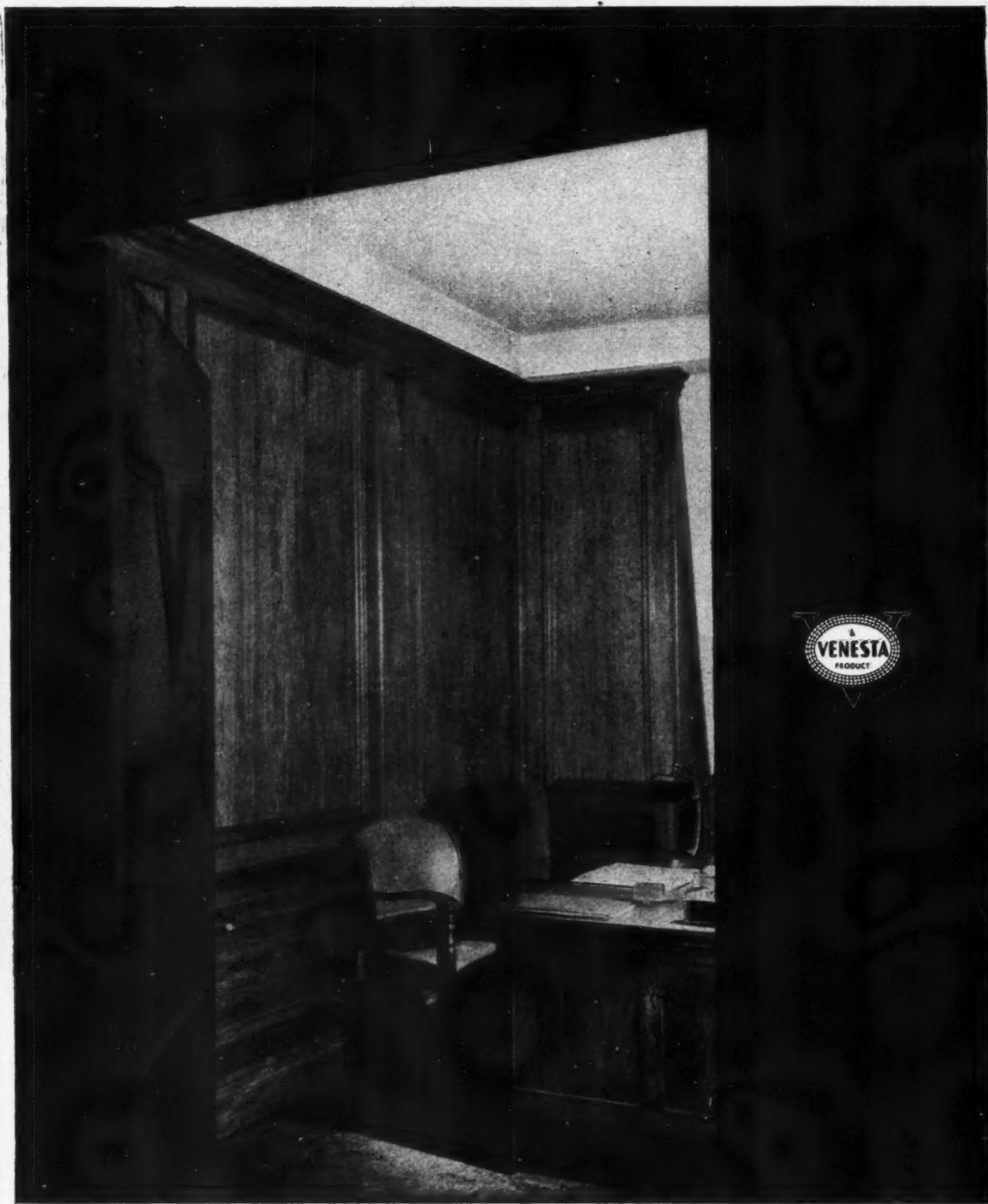
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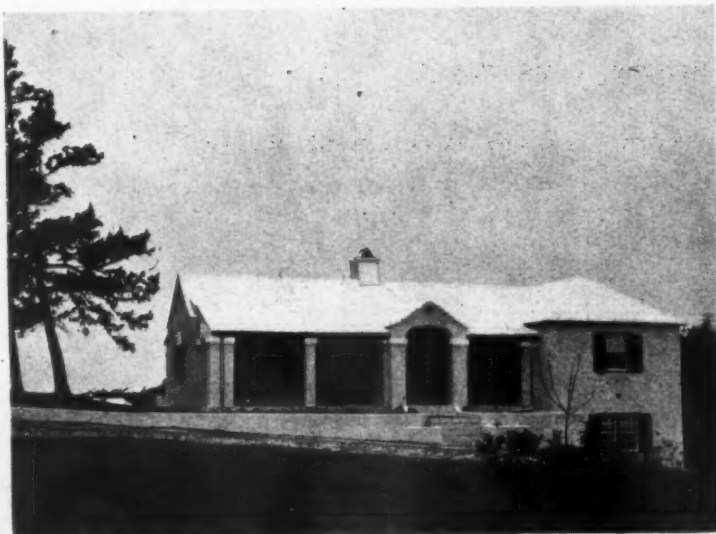
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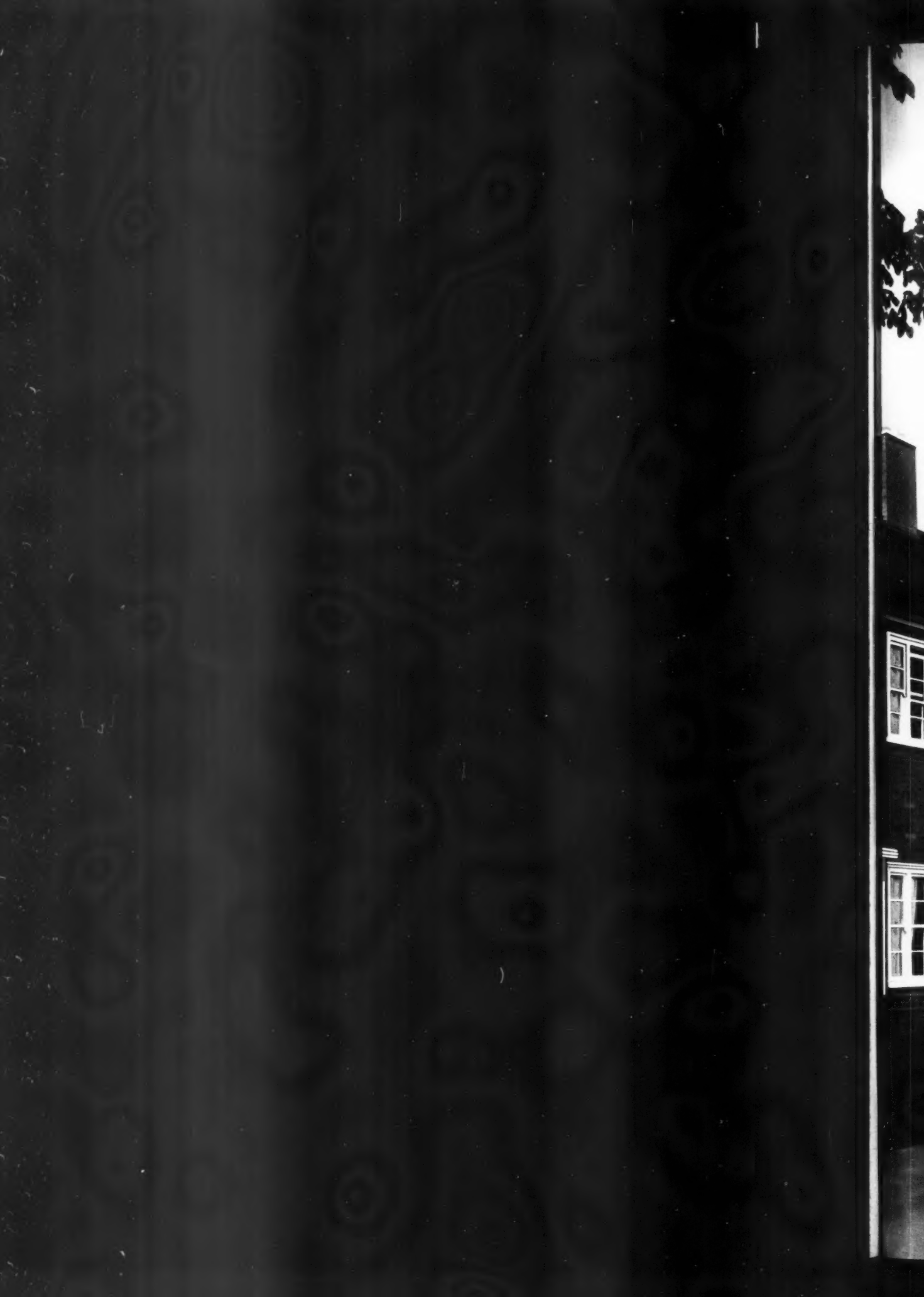
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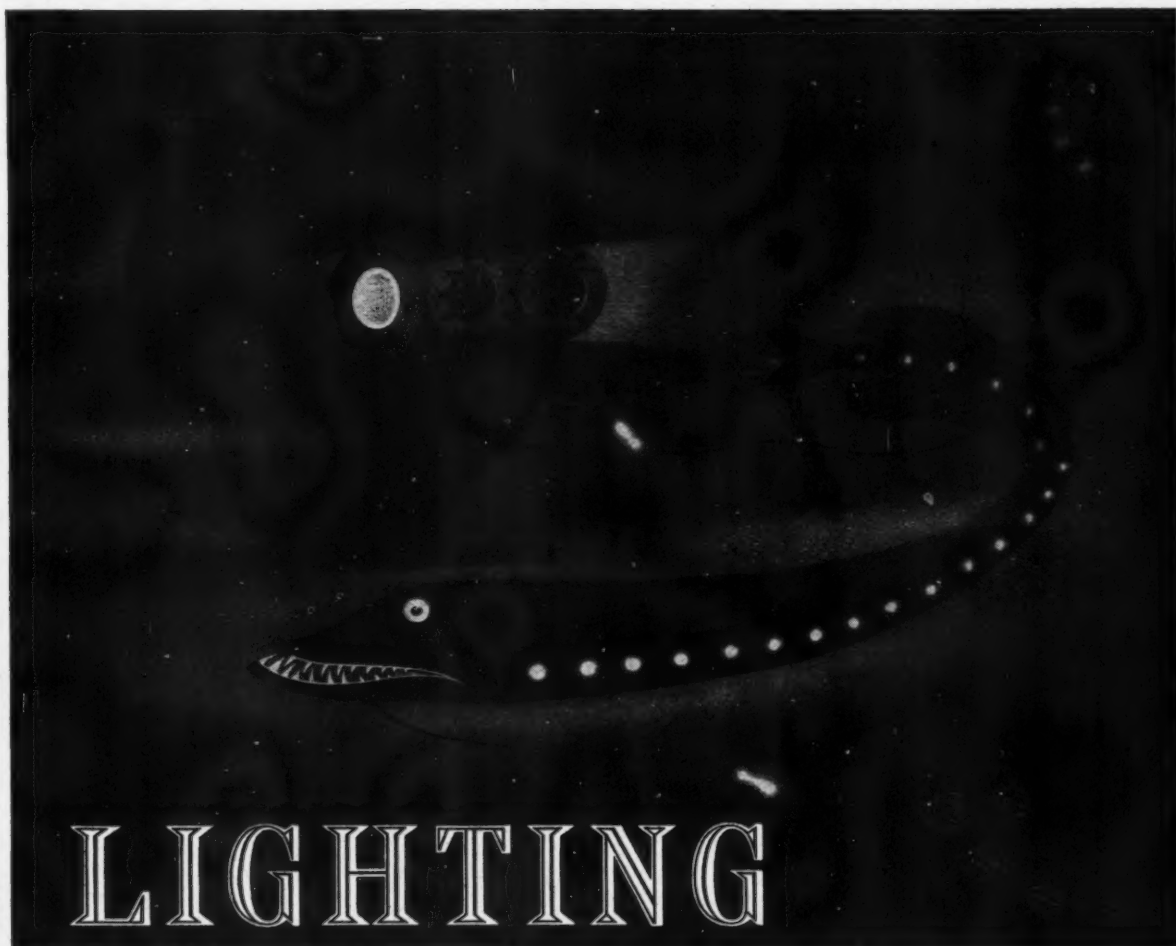


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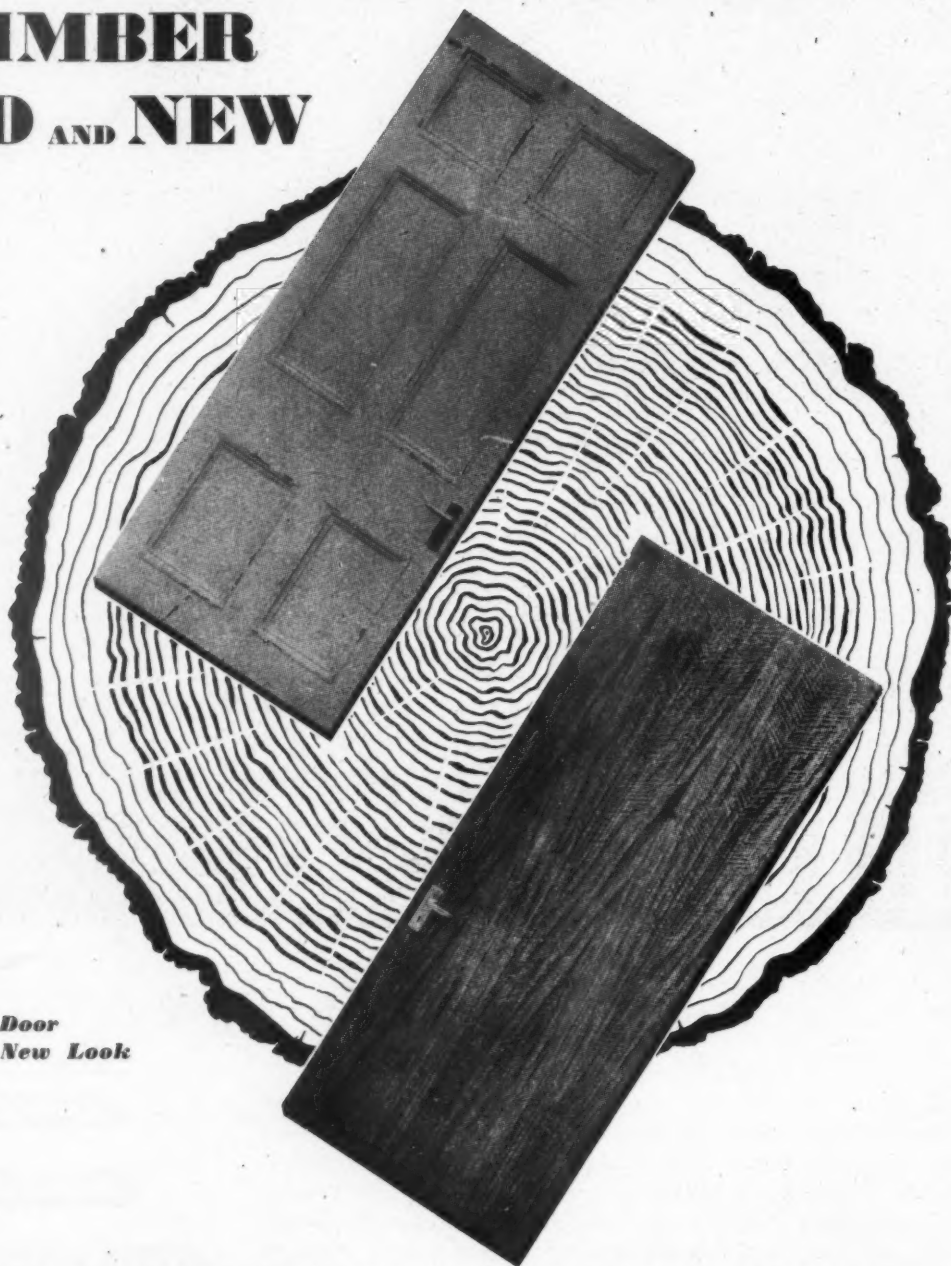
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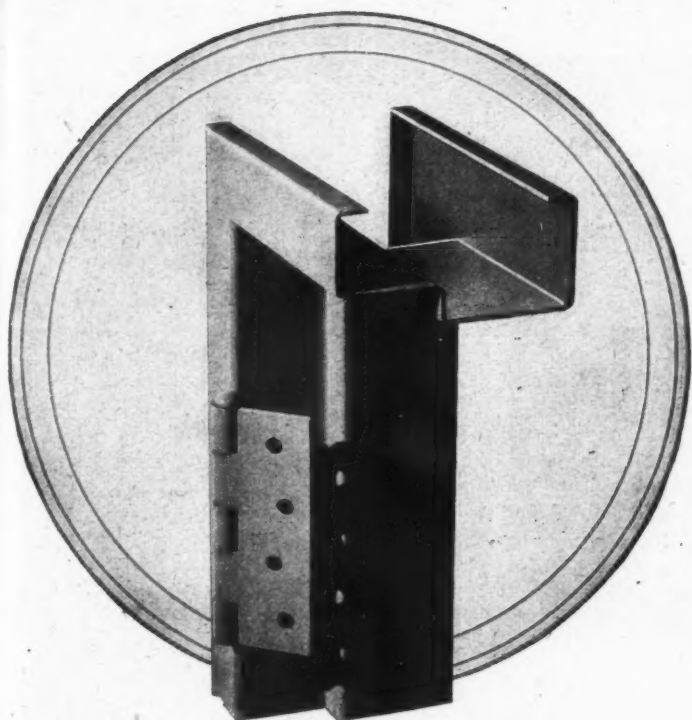
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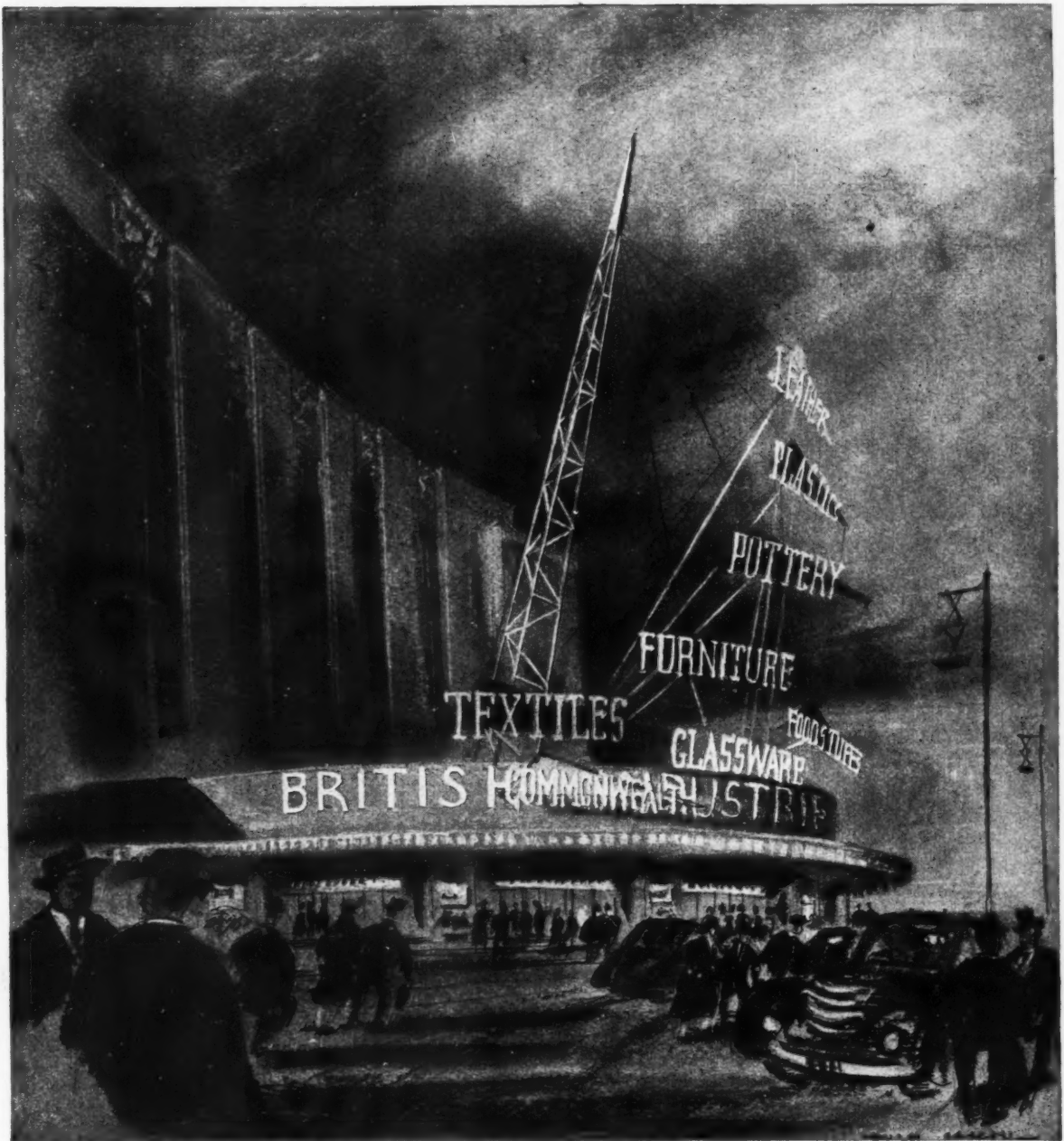
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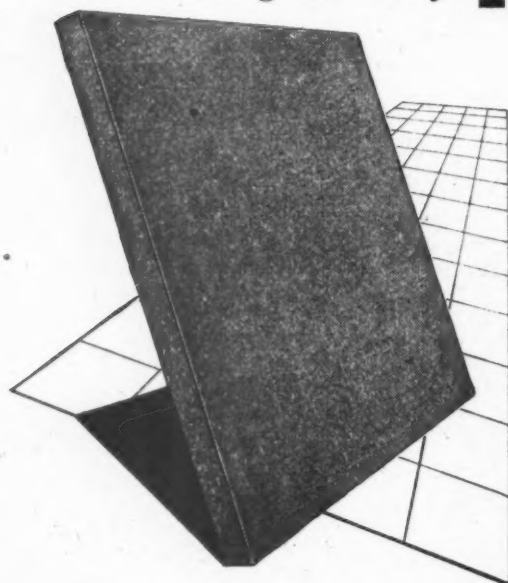
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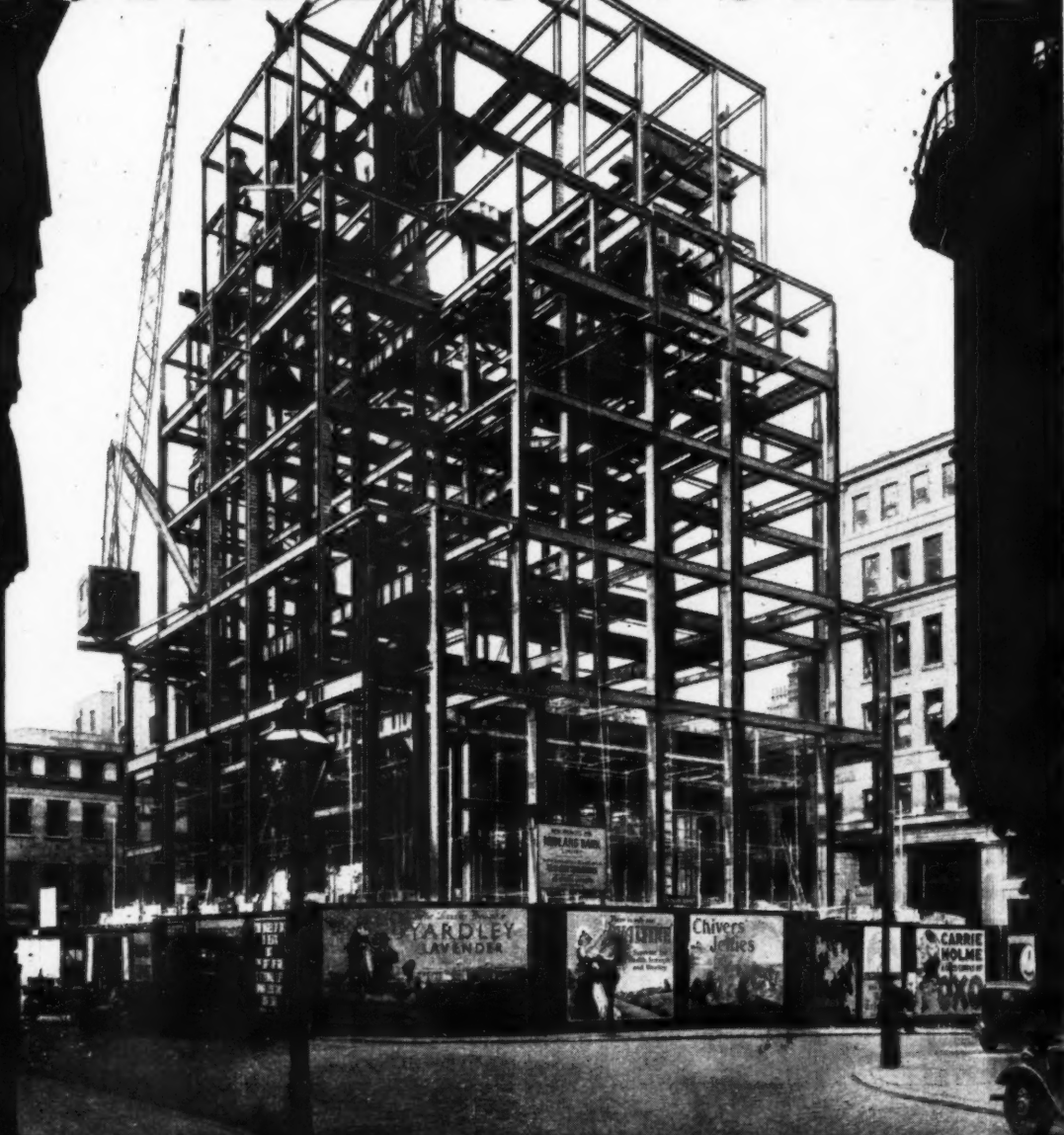
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DIARY FOR MAY JUNE AND JULY

Titles of exhibitions, lectures and papers are printed in *italics*. In the case of papers and lectures the authors' names come first. Sponsors are represented by the initials as given in the glossary of abbreviations on the front cover.

BIRMINGHAM. *British Industries Fair.* At Castle Bromwich. (Sponsor, BOT.) UNTIL MAY 14

CHATHAM. *Visit to Fort Luton School.* (Sponsor, S.E. Society of Architects, Maidstone Group.) JULY 10

EASTBOURNE. *Conference of Faculty of Architects and Surveyors.* (Sponsor, FAS.) MAY 18-20

EDINBURGH. *TPI 22nd Annual Country Meeting.* (Sponsor, TPI.) JUNE 4-6

GATESHEAD. *RSI Gateshead Sessional Meeting.* Lt.-Col. G. Perry. *The Planning of Industrial Estates.* Afternoon visits to Queen Elizabeth Hospital and Sheriff Hill Isolation Hospital, Gateshead, Shipcote Baths and the Team Valley Trading Estate. At the Greenesfield Health Centre, Mulgrave Terrace, Gateshead. (Sponsor, RSI.) JUNE 26

HARROGATE. *RSI Conference.* At Harrogate. (Sponsor, RSI.) MAY 24-28

IRELAND. *TCPA Irish Study Tour.* (Sponsor, TCPA.) MAY 31-JUNE 13

LIVERPOOL. *British Architects Conference.* (Sponsor, RIBA.) MAY 27-30

LONDON. *Exhibition of Housing Work of Wandsworth Borough Council.* At the Housing Centre, 13, Suffolk Street, S.W.1. UNTIL MAY 14

Inn Crafts Exhibition. Interior decoration and furniture design for licensed premises. At the RBA Galleries, 61, Suffolk Street, S.W.1. (Sponsors, CIAD for Brewers' Society.) UNTIL MAY 13

Darkness into Daylight Exhibition. At the Science Museum, South Kensington. (Sponsor, Science Museum.) UNTIL SEPTEMBER 30

British Industries Fair. At Earl's Court, Olympia, and Birmingham. (Sponsor, BOT.) UNTIL MAY 14

IEE General Meeting. At the IEE, Savoy Place, W.C.2. (Sponsor, IEE.) 5.30 p.m. MAY 13

IEE Film Show: Atomic Physics. In the Lecture Theatre of IEE, Savoy Place, W.C.2. Tickets from the Hon. Secretary. (Sponsor, IEE.) 6.45 p.m. MAY 13

F. L. O'Brien. *The Northern Ireland Housing Trust.* At the Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.) Buffet lunch at 12.45 p.m. Meeting, 1.15-2.15. MAY 13

Graf Wolf-Meternich. *Comparative Systems of Protection of Monuments: Italy, Austria, Germany, France.* At the Courtauld Institute 20, Portman Square, W.1. (Sponsor, Courtauld Institute.) 3 p.m. MAY 18

New Schools Exhibition. At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) Weekdays 10-6, Saturdays 10-5. MAY 26-JUNE 19 (inclusive)

Lady Pepler. *Recent Developments in the Work of the International Federation.* At the Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.) Buffet lunch 12.45 p.m. Meeting 1.15-2.15. MAY 27

Prof. A. E. Richardson. *Craftsmanship.* Peter Le Neve Foster Lecture. At the RSA, John Adam Street, Adelphi, W.C.2. (Sponsor, RSA.) 2.30 p.m. JUNE 2

R. B. Hounsfeld. *Are Railways the Key to Planning?* At the Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.) 6.15 p.m. JUNE 16

RIBA Council Election Results. Charles Woodward and Sydney Redfern. *Questions and Answers in Practice.* At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) JUNE 22

Annual Prize-giving of the AA School of Architecture. At the AA, 34/6, Bedford Square, W.C.1. (Sponsor, AA.) 3.30 p.m. JULY 9

Mechanical Handling Exhibition. At Olympia. The exhibits will include aerial ropeways, conveyors and elevators; coal, coke and ash-handling plant; cranes, gears and chains hoists, stackers, pulley blocks and lifting gear; hand-trucks, power-driven industrial trucks, runways, wagon-tippers, pneumatic handling plant and all types of accessories. (Sponsor, "Mechanical Handling.") JULY 12-21

MANCHESTER. *Design Week.* (Sponsor CID.) JUNE 21-26

SEVENOAKS. *Visit to Knole Park.* (Sponsor, S.E. Society of Architects, Maidstone Group.) MAY 22

TORONTO. *Canadian International Trade Fair.* At the Exhibition Grounds, Toronto. (Sponsor, Canadian Government Exhibition Commission.) MAY 31-JUNE 12

NEWS

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No. 2779 VOL. 107

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Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis.

★ means spare a second for this, it will probably be worth it.

★★ means important news, for reasons which may or may not be obvious.

Any feature marked with more than two stars is very big building news indeed.

PROFESSOR W. G. HOLFORD, Professor of Town Planning at University College, London, left Britain on May 7 for a FORT-NIGHT'S LECTURE TOUR IN ITALY for the British Council.

He will be visiting Rome, Genoa, Turin, Milan, and Venice, lecturing in Italian on the subjects of the British New Towns Scheme and the Redevelopment of Central Urban Areas. Professor Holford took up his present post last autumn on his resignation of the Chair of Civic Design, Liverpool. He is Planning Consultant to the Corporation of the City of London, and last year in conjunction with Dr. Charles Holden he published the Final Report on the Reconstruction of the City. He is also Adviser in Architecture and Town Planning to the Secretary of State for the Colonies, and is therefore closely connected with the present schemes for Colonial Development.



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From AN ARCHITECT'S Commonplace Book

DUTCH GARDENS. [From *The Netherlands*, by Sacheverell Sitwell (B. T. Batsford, Ltd.).] Upon the authority of Horace Walpole, and other iconoclasts and lovers of the English landscape garden, it is assumed that it was "Dutch William" who brought the taste for topiary, clipped hedges, green "rooms," and the formal conceits of the Dutch garden to England, and not a little surprising, therefore, to be told by Dutchmen that, in Holland, this artificial style is laid at our doors and called an English garden. Such a bandying of names and nationalities . . . implies something of the old dislike for the drilled garden, a phrase of our own coining, having in mind that notorious garden of William of Orange which copies the plan—was it of a siege or a mere battle?—but it was complete with redoubts and batteries and companies of grenadiers, all in topiary, and growing taller with the years. The plaything of a martinet in a periwig, a great soldier who only relaxed in male company and preferred the statues of Mars and his minions to that of Venus, but no more need be said of this extreme and stilted specimen of a Dutch garden. We can visit, later, what instances of the Dutch style are to be found in England, of necessity, because there is so little left in Holland, its land of origin.

★★

MR. MICHAEL WATERHOUSE, M.C., B.A., F.R.I.B.A., is to be the new RIBA PRESIDENT for the Session 1948/49.

He succeeds Sir Lancelot Keay, K.B.E., M.A.R.C.H. (L.V.P.L.), who retires from office on June 30. Although the RIBA elections for next session have not yet taken place, his nomination to the presidency is unopposed. The Waterhouse family hold a unique record in the history of the architectural profession, covering nearly one hundred years. Mr. Waterhouse's grandfather, Alfred Waterhouse, a man of pre-eminent ability, started practice in 1854, was awarded the Royal Gold Medal in 1878, and was President from 1888-91. Developing a large practice, his buildings included, amongst others, the Natural History Museum, St. Paul's School, the National Liberal Club, and many buildings in Oxford and Cambridge. His father, Mr. Paul Waterhouse, who was President from 1921-1923, will be well remembered by older members as a scholarly and witty speaker and writer. His addresses to the Institute as President were masterpieces of their kind.

Mr. Michael Waterhouse was born in 1888, in the first year of his grandfather's presidency, at 61, New Cavendish Street, a lovely Adam House which also served as an office. He was educated at Eton and Balliol College, Oxford, and later studied architecture at the Architectural Association School of Architecture, then in Tufton Street. On August 4, 1914, he was amongst the first three to receive a commission in the 1/1 Nottinghamshire Sherwood Rangers Yeomanry, and served with that regiment in the Middle East and Gallipoli, finally commanding it in Syria.

On his return from the war he went into partnership with his father, spending the next three years travelling on the Continent visiting building work for the National Provincial Foreign Bank in Paris, Brussels and Antwerp, and in 1933 he spent 18 months on work in Southern Rhodesia. Up till 1925 in partnership with his father and subsequently with Mr. C. G. Ripley, F.R.I.B.A., he has designed a wide range of buildings, covering hospitals, banks, offices, and in particular since 1940 a large number of important factories, including Wellcome Foundation, Ltd., Chemical Works, in Kent; Monsanto Chemicals, Ltd., Ruabon; and Messrs. W. T. Henley's Telegraph Works, Birtley, as well as churches, university buildings, and various types of domestic work. During his busy career, Mr. Waterhouse has also found the time to take an active part in Institute committee work, in particular on the Practice Committee. He was Hon. Secretary of the RIBA from 1940-1946, and Vice-President from 1946-47, and is one of the two RIBA representatives on the Ministry of Works National Consul-

tative Council of the Building and Civil Engineering Industries. Mr. Waterhouse also served on the Council of the Architectural Association from 1921-1924.

It was recently announced in the AJ that Cornell University in the USA had decided to award a FELLOWSHIP to foreign students TO STUDY ARCHITECTURE AT CORNELL.

It is now learned that 24 applications were received for this fellowship from 14 different countries, including 8 European countries. The fellowship has been awarded to Mr. Ronald A. Dick of the Bartlett School of Architecture, University College, London.

★

The first 100 houses for the NEW TOWN OF EAST KILBRIDE will be begun this month.

This has been announced by Sir Patrick Dollan, the chairman of the East Kilbride

Development Corporation. Plans have been approved, and architects, surveyors, and contractors appointed. Mr. J. L. M'Lusky, Town Clerk of Kirkcaldy, has been appointed clerk and legal adviser to the Corporation, and Mr. David G. Malcolm, district valuer, Renfrew and South Lanarkshire, has been made lands and estate officer.

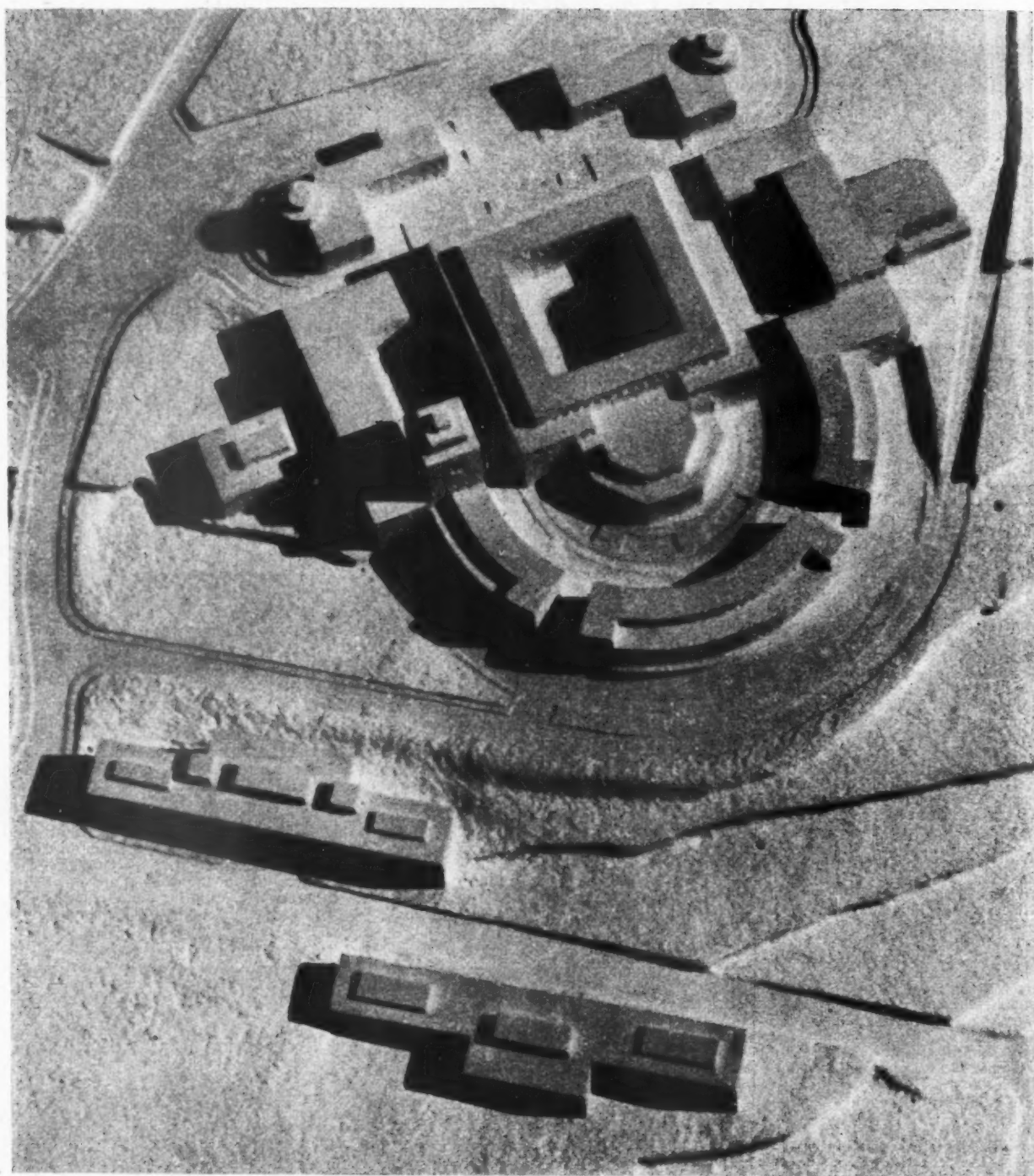
★★

The Council of the RIBA have appointed Mr. JAMES C. PALMES, M.A., to the post of Librarian recently vacated by Mr. R. E. Enthoven.

Mr. Palmes is 40 years of age. He was educated at Radley and Pembroke College, Cambridge, where he read modern languages, and until the outbreak of war was senior assistant master at Hillside School, Reigate. During the war, he served on the Intelligence Staff of SEAC in the Far East, and SHAEF in Europe with the rank of Squadron Leader, RAF. Since the war, he has worked with the control Commission in Germany as Deputy Chief of the German Liaison Branch in Frankfurt. Mr. Palmes will take up his duties immediately.



The Dudley Council, showing enterprise rare among municipal authorities, recently commissioned Hans Feibusch to decorate their Concert Hall with a mural painting, which is illustrated above on its completion. It measures 27 ft. by 15 ft. and has been painted direct on plaster. The subject of the picture is an incident from local history.



Abandoned Work : Palestine Government Buildings

Next Saturday Britain terminates her mandate over Palestine, and the present is therefore an appropriate moment to reproduce Mr. Austen St. B. Harrison's designs for a central group of Government buildings near Jerusalem. The designs, which have never before been published, were prepared by Mr. Harrison and his partners just before the war on the instructions of Lord Gort, then High Commissioner for Palestine. When the partition of the country between the Arab inhabitants and the Jewish immigrants was decided on, the project (which included a general legislative assembly) became obsolete. This

partition scheme has been abandoned, but even if some central government emerges from the present chaos it is unlikely that this project will ever be realized. Mr. Harrison was for some years Government Architect in Palestine and designed several of the most important modern buildings in the neighbourhood of Jerusalem, including Government House and the Palestine Archaeological Museum. Above is an aerial view of the model of the proposed Government buildings, and shows the symmetrical planning round a five-storey central block. The project is fully illustrated on pages 435-438 of this issue.

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The Housing Committee of the LCC has submitted particulars of the progress on the Council's POST-WAR HOUSING OPERATIONS AS AT March 31, 1948.

The Committee reported that there has been a further improvement during the first quarter of 1948—1,453 permanent dwellings having been completed. The temporary housing programme is drawing to a close and the number of temporary houses completed and handed over during the quarter was 220, this being 319 less than during the previous quarter. The total number of units of accommodation provided during the quarter was 1,677, and the total number provided since the commencement of post-war housing operations is 21,163. There has been a slight increase in the total labour force employed on housing operations but it is still inadequate for the Council's needs. The question of the supply of materials continues to give rise to concern and shows few signs of any positive improvement. In a table showing the acreage and number of dwellings to be provided, the Committee report that a total of just under 8,000 acres providing sites for nearly 100,000 flats and houses have been acquired or are in process of acquisition.

The Committee report that further discussions have taken place with the Ministry of Health on the programme of block dwelling construction for the second half of 1948, and the Minister has agreed to the commencement of 2,682 new flats and 383 cottages during that period. The authorised programme of new permanent construction for 1948 is therefore:—

	On order at the end of 1947	To be ordered and commenced during 1948	Total
Flats ..	525	3,751	4,276
Cottages ..	3,183	1,527	4,710
Totals ..	3,708	5,278	8,986

Including 106 war-destroyed dwellings to be rebuilt during the year, the total number of permanent dwellings which the Council is permitted to commence during 1948 is 9,092, which compares with 5,745 permanent dwellings which the Council actually commenced in 1947. The Committee think it will be agreed that the outcome of the negotiations with the Minister of Health has been very satisfactory to the Council and that the Minister has completely justified, so far as the Council is concerned, the assurances given by him in November, 1947, that it was the Government's intention to maintain a continuity of housing operations in London.

THE HOUSING RETURNS FOR MARCH show that 20,357 new permanent houses were completed in Great Britain during the month.

This is the highest total recorded since the war, and is 2,500 more than the next best monthly output—in December last. Of these new houses, 18,828 were erected in England and Wales and 1,529 in Scotland. The figures include the rebuilding of houses destroyed during the war (1,561 in England and Wales and 52 in Scotland). In addition, 1,656 temporary houses were finished during March in England and Wales and 1,606 in Scotland. The labour force employed on the construction or repair of houses in Great Britain fell by only three hundred during the month, and stood at 556,400 on March 31. There has been another slight shift of labour from war damage repairs to new housing. The number of new permanent houses under construction has dropped by nearly 9,000 from 193,967 at the end of February to 185,196 at the end of March. The number of temporary houses under construction has dropped by over 7,000 from 201,594 to 194,165.

A CASE FOR REFORM

FOR many years the questions have been asked, "Why do buildings cost so much?" "Why is housing so dear?" and the public, and the architects, have tarried long for an answer. The essential evidence has remained strangely unobtainable. The evasive defence or the plausible alibi have been so often used as almost to be believed by their users, and the supposedly impartial seeker after truth has been baffled or misled by the weight of irrelevant as well as relevant facts that he has been offered. In short, committees on costs have failed to publish useful results—and may continue to fail for a long time to come. Facts are hard to come by when they are inimical to the interests of those with a monopoly knowledge of them.

After nearly two years the Committee of Enquiry into the Distribution of Building Materials and Components has issued its report* to the Minister of Works. The most striking feature of this Report is that it discloses, with detailed chapter and verse, some of those very facts which had previously proved to be so elusive. The first of these outstanding facts is the disclosure of the importance of the system of agreements prevailing between merchants and manufacturers over a large range of building materials supply. "The part these arrangements played in frustrating price competition in the period between the wars is clear," states the Committee (par. 73). "Moreover, except for the fact that they do not play a significant part in enforcing minimum prices to-day, the harmful effects of the agreements on the public are almost as important now as they were before the war." In many respects, the Committee holds, the agreements militate against efficiency, and induce a mis-direction of economic effort.

Secondly, the net margins earned by merchants in a comparable sample are stated to have risen substantially between 1938 and 1946—from 3.6 per cent. in 1938 to 7.3 per cent. in 1946 in the case of merchants with sales of under £50,000 p.a. each, and from 3.5 per cent. to 6.6 per cent. in the case of merchants in the sample with sales of over £50,000 each. "There is clear evidence from the results of our last Enquiry," states the Committee (par. 86), "that merchants' net margins are too high. . . ." These increased net margins, moreover, are demonstrated to have been earned on an increased turnover. Since a 2½ per cent. net margin would, in the committee's calculation, have yielded about 10 per cent. on capital, which is usually considered to be a reasonable return, the merchants indeed seem to be in clover.

The 1944 White Paper on Employment Policy stated that the Government "will seek power to inform themselves of the extent and effect of restrictive agreements, and of the activities of combines; and to take appropriate action to check practices which may bring advantages to sectional producing interests but work to the detriment of the country as a whole." The present Committee, assuming that this

* Published by HMSO. Net 2s. 6d.

policy will be embodied in legislation, makes no recommendation for special legislation in the field of building materials. But it does recommend that agreements in restraint of trade should be made illegal, that price discrimination should be prohibited, and that prices and margins should be controlled. Whether the recommendations of the Committee are sound, and whether or not they are adopted by the Government or by the merchants themselves remain open questions. The importance of the Report is its courageous publication of facts, and of its frank comments upon them.

So often when producers of a particular building material have been accused of raising the cost of housing, etc., the facile excuse has been accepted: "Oh, but the cost of material, etc., represents only a small fraction of the total cost of a house." This hoary old alibi has now been struck out of industry's stock repertoire of rejoinders. For *all* materials very nearly are now shown to be subject to cost inflation.

The outcome of this Report must surely be some hard thinking among the distributors and manufacturers of materials. The early days of their associations are at an end. Their importance in the life of the community has become too great for them to formulate policy any longer on the basis of maximising profit at the ultimate expense of the public. They must accept new and wider responsibilities of their own accord, or inevitably suffer a forcible reform from outside agencies, such as the Government, which will be compelled to act unless reform from within is very rapidly apparent.



The Architects' Journal

9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1

Phone: Whitehall 0611

N O T E S &

T O P I C S

THE NEW LIBRARIAN

We learnt during the war, when many eminent professors made good as "back-room boys," applying their brains to subjects they had never concerned themselves with before, that sheer intelligence soon overcomes lack

of specialized knowledge. That is the best argument for filling an important post without too much orthodoxy about qualifications. Nevertheless it is a bold step on the part of the RIBA Council to appoint as Enthoven's successor someone who is neither a librarian nor an architect.

*

It is true enough that the job has lately become less and less concerned with scholarship and even with books—this side of it is safe in the hands of the very experienced library staff. The librarian is now much more a co-ordinating secretary to numerous committees. A stranger to the architectural world may have difficulty at first in finding his way about, but all readers will join me in welcoming Mr. Palmes and wishing him well in a position that Carter made into one of the key positions in the profession.

IN BATTERSEA PARK

Another bold step is taken by the LCC in arranging their outdoor exhibition of sculpture in Battersea



Mr. J. C. Palmes, who has been appointed RIBA librarian in succession to Mr. Enthoven. See Astragal's note and news paragraph on page 429.

Park, which I mentioned when it was first announced. It opens this week, and should be the object of pilgrimage by all Londoners. The first public showing of Henry Moore's group of three monumental standing figures is an event in itself. I understand there is some chance of this group remaining in the park permanently. The standard of sculpture is high, and the only disappointment is a lack of imagination in placing the pieces. I had hoped for enchanting glimpses of sculpture displayed beneath trees and disclosed among shrubberies as one walked around the park; in fact, they are placed close together in one enclosure by the lake, forming a pleasant enough outdoor gallery but contributing little to solving the problem of the use of sculpture in landscape.

CLOUGH LUCK DOWN UNDER

From a New Zealand hospital, where he lies with a damaged knee, Clough Williams-Ellis writes to explain that this is not the result of his dust-up with New Zealand's Minister of Works, Mr. Semple, who called all critics of the State Housing programme (including, presumably, Mr. W.-E.) "snivelling snufflebusters." All has ended well, apparently, with Mr. Semple saying he didn't mean it personally, and with Mr. W.-E. noting the words for future use himself. What a splendid country this is, he writes, where the trees grow three

times as fast as they do in England, and where the Prime Minister admits to having twice made a pilgrimage to William Morris's Red House at Bexley. Of how many Prime Ministers—or architects either—I wonder, could you say as much?

—AND NOT SUCH TOUGH LUCK

Also from Down Under comes news of an admirably generous scheme devised by the architects of Australia. Through a fund initiated by the Royal Victoria Institute, some 259 architects in this country—names supplied by the ABS—have been receiving gift food parcels from their Australian colleagues. The Royal Australian Institute have followed up with 500 more parcels—names again from ABS, and when these ran out, recipients were those who had rendered good service to architecture. Finally, the South Australian Institute is sending a large number of parcels to architects here whose names, I understand, have been picked at random.

It is indeed encouraging to see professional friendship reinforced in so practical and warm-hearted a manner, and ASTRAGAL—who so far hasn't qualified either under hardship or services to architecture—awaits the luck of the pinprick with eager anticipation.

TECHNICS AND SEX

There are moments—remember "Miss Spirits of Gum Turpentine"?—when I get the creeps about America, and I was glad to see, in a recent book, that English anthropologist Geoffrey Gorer has turned from his study of Africans to the study of Americans. The characteristics of American

behaviour—the cultural fear of Europe, the aversion from planning, "the hollow first-name basis of American manners," the sacredness of Mother, the ceaseless drive for conformity and success in business and in love—Mr. Gorer suggests, arise partly because Americans feel psychologically more deprived than other people (or, as a reviewer puts it, "they act like orphans though their parents are alive"), and partly because of the hold the feminine conscience has over Americans (which leads naturally to a secret resentment against women).

Only some such conflict in the American mind could explain, I think the appearance of a text-book called *Anatomy for Interior Designers*.* Written by a Molotov-resembling Harvard man called Schroeder in the relentlessly bright manner of a radio commentator, it sets out to provide useful data and dimensions for the use of architects and designers. The information provided, however, is arbitrarily selected, over-sexed in presentation, indifferently drawn, and often useless (*i.e.*, "a pile of six brassières is 3 in. thick") when it is not facetious (*i.e.*, "kissing a girl's hand takes 4 ft. 3 in. of space").

In the epilogue the reader is advised how to trap and keep clients, advice to which I would add my own: "Buy a pair of spectacles, or you won't be able to read the tiny type in which the advice is printed." On second thoughts, though, perhaps you needn't bother.

ASTRAGAL.

*"Anatomy for Interior Designers." Whitney Publications, Inc. Price, \$3.50.



LETTERS

Reginald Kirby, A.R.I.B.A.,
A.A.Hons. Dip.

Ralph Tubbs, A.R.I.B.A.

Lionel E. Gregory, A.R.I.B.A.

Robin Darwin

Flats at Bethnal Green

SIR.—Most architects, particularly those who are themselves grappling with similar problems, will indeed be shocked that so enlightened a housing authority as the London County Council should build such an appalling scheme as that recently completed at Bethnal Green and illustrated in your issue for April 29.

The shortcomings of this particular housing scheme are, I think, so outstanding that any detailed criticism would be stating the obvious. It is really worth while quoting, however, the late Sir Charles Reilly, who, when reviewing this same scheme in your New Year issue, commented: "It must be a pretty dull life living in these long cliffs of artificial stone facing a parallel cliff." This comment refers chiefly, I think, to the layout and not to the elevations, which are, I suppose, a matter of opinion rather than of fact, and perhaps mercifully the perception of the public is beginning to be numbed by this kind of thoughtlessness. But what of the tenants? Well, God help them. In these days they have no choice.

REGINALD KIRBY

London

SIR.—May I thank you for illustrating in your Journal of April 29 the new flats at Bethnal Green. This building—part of the large programme of the LCC—is of such ugliness that it must hurt anyone who has the slightest architectural sensibility.

It brings home to us the tragic situation of our time when we realize that the very authorities who sponsor such constructions are those who claim the right to criticize and even alter the imaginative designs of every architect who strives to build in accord with the best in the human spirit.

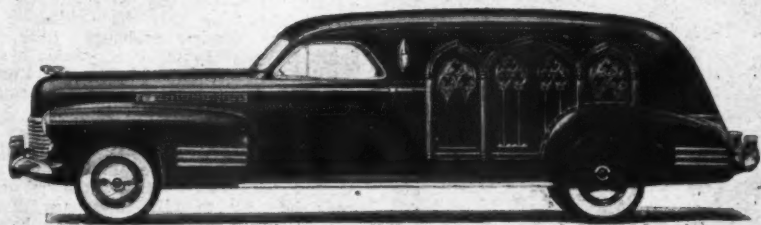
Architecture is an interpretation of life.

He who is a true artist must indeed weep.

London

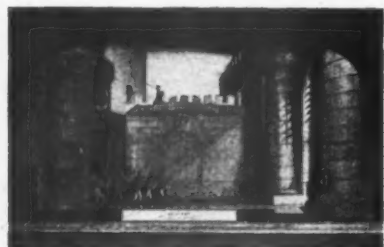
RALPH TUBBS

[A reply to Sir Charles Reilly's criticism of the Bethnal Green flats by Mr. C. W. Gibson, chairman of the LCC Housing Committee, appeared in the A.J. on January 29 last, and a further criticism of the flats by Mr. Brian G. W. Blackwood on February 12.—Ed., A.J.]

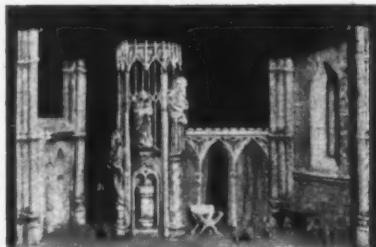


Mr. Joy-Boy fans will be interested in this photograph from an advertisement in a recent number of "Canadian Funeral Service." The caption reads: "If it is impressive dignity that you seek—and surely that is exactly what you want in your automotive equipment—we challenge you to compare this Meteor Cadillac Gothic carved funeral car with any other equipment made in America at any price."

ARCHITECTURE IN THE THEATRE



Theatrical decor is one field where the architect's special training has an application which is not generally recognised. The photographs on this page illustrate examples of the architectural treatment of several stage sets by British designers. They are taken from an exhibition of models that was recently on view in the Fine Arts Department of the British Council and which is now touring eastern and northern Europe. It can be seen that the designs vary from a formal and naturalistic treatment to the more impressionist and conventional stage method of suggesting space, depth and solidity. In either case the task is pre-eminently architectural both in its main aspect of creating space shapes, and in the attention to correct detail which stage settings invariably require in order to gain their effect, even if it is intentionally exaggerated



and illusionist. The photograph at the top of the page is of Rex Whistler's design for the drop curtain of *Rake's Progress*, first produced at Sadler's Wells Theatre in 1935. It uses with great skill the appropriate period architecture of the London scene, and the spires of the City Churches, with St. Martin-in-the-Fields in the foreground, the Piazza of Covent Garden, and the Duke of York Monument are finely drawn and readily distinguished. Centre, left, another design by Rex Whistler for the prison in *Fidelio*, with exaggerated perspective and a sense of massiveness and enclosure. Right, an interior set for *Richard II* designed by Hal Burton. Bottom, another set for *Richard II* by Michael Warre, which gains its effect by simple grouping and a suggestion of Gothic detail.



The Depression

SIR,—I would like to comment on the statement under the signature of the President of the RIBA.

I would first express my irritation in the remark that the Institute's primary function is to ensure the development of architecture.

The Institute's primary function, like any other professional body, should be the protection of the interests of its members, a duty which the RIBA seems to carefully avoid. I do not think that anybody has asked the Institute to create work, but one does, particularly at such times as this, demand that the Institute makes some soundly active movement to protect its members, which would at the same time ensure the development of architecture.

The majority of the Institute's members are provincial members, who, through no fault of their own, get little or no opportunity of reaping any benefit of the few activities of 66, Portland Place, and, as they subscribe the largest amount of subscription income to the Institute, they are entitled to something for their money other than a copy of the *RIBA Journal* every month and the Institute's condolences.

The doctors' governing body has just successfully stood fast, the dentists', the lawyers' and other professions are a united and fighting body who have energetically seen to it that their members' positions have been secured and have closed their ranks to all forms of piracy, why cannot the Royal Institute, which is a respected and ancient body under Royal Charter, do the same? In fact they must!

The President's remark that younger men should sally forth as pioneers abroad to posts which are readily available is, in a large measure, a piece of impudence; for the simple reason that many of the younger members don't particularly want to go abroad; those who do, have difficulty in finding posts at anything like a lucrative salary in comparison with the high cost of living abroad (I did nearly six years in the Far East during the war and know that the cost of living anywhere abroad has gone up at least 4 times); and lastly, that most architects know that there is a great deal of work for them to do in this country.

LIONEL E. GREGORY.

Poole

RCA and AA.

SIR.—In two paragraphs in your issue of April 15, *Astragal* writes of the proposed co-operation between students at the Royal College of Art and those of the Architectural Association. When certain plans for the reconstruction of the College have been carried out, it is hoped to develop this co-operation on a fully organized basis. In the meanwhile the idea is still in its early stages and your report gives a rather inflated picture of what is at present going on.

I should like, however, to correct one impression which your readers may have gained. It is not only with the Architectural Association that the College is co-operating. Similar exchanges have been initiated with Professor Corfiato of the Bartlett School of Architecture in London University, who has shown himself equally interested and helpful.

In due course I hope it may be possible to make contact with other architectural schools throughout the country, so that any students with an interest in industrial design may be able to take advantage of any specialized courses which we may have to offer. The Royal College has particular responsibilities in this field, and these it cannot discharge without interest, assistance, and recruitment from the architectural profession.

ROBIN DARWIN,

Principal, Royal College of Art.

London

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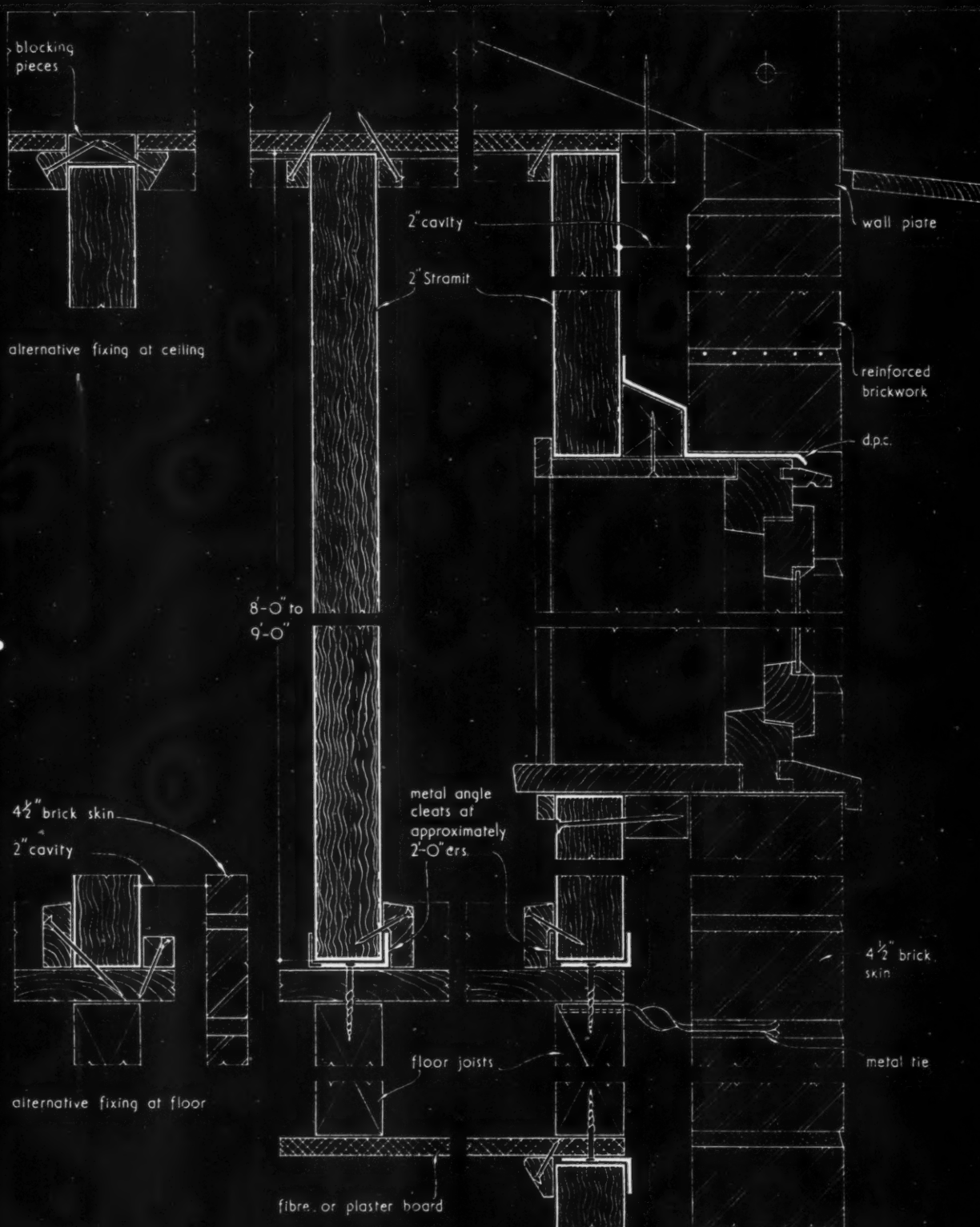
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TYPICAL PARTITION AND LINING TO NON-LOADBEARING EXTERNAL WALL.

STRAMIT BUILDING SLABS: 2. PARTITIONS AND WALLS. (scale $\frac{1}{4}$ full size)
 TYPICAL STRUCTURAL DETAILS SHOWING HORIZONTAL JOINTING METHODS.
 Compiled by Messrs. F.R.S. Yorke F.R.I.B.A., E. Rosenberg and C.S. Mardall A.R.I.B.A.

14.L2 ·STRAMIT· BUILDING SLABS : 2. PARTITIONS AND WALLS : TYPICAL STRUCTURAL DETAILS SHOWING HORIZONTAL JOINTING METHODS

This Sheet describes the use of Stramit building slabs in the construction of partitions and wall linings and shows typical methods of horizontal jointing. Sheet 14.L1 describes the material and its characteristics and illustrates its application to roofs and ceilings. Sheet 14.L3 shows typical methods of vertical jointing.

Partitions

The drawing illustrates two methods of fixing the slabs at ceiling and floor levels.

Wall Linings

The drawing illustrates a method of fixing the slabs to a 4½-in. brick wall leaving a 2-in. cavity.

This method of construction is possible in two-storey buildings where the party walls, end walls and loadbearing cross walls can take the floor load, leaving the external wall non-loadbearing, with the possible exception of the weight of light roof timbers.

It is advisable to strengthen the external walls with ties, say every four feet, fixed to the outside floor joist. The external wall skin should be bonded into party and cross walls. The cavity must not be bridged horizontally except for window and door openings, and a proper damp-proof course should be provided at these intersections.

The advantage of this system of construction lies in the high thermal insulation of the walls, and the speed of erection.

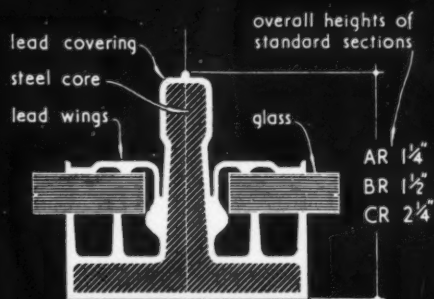
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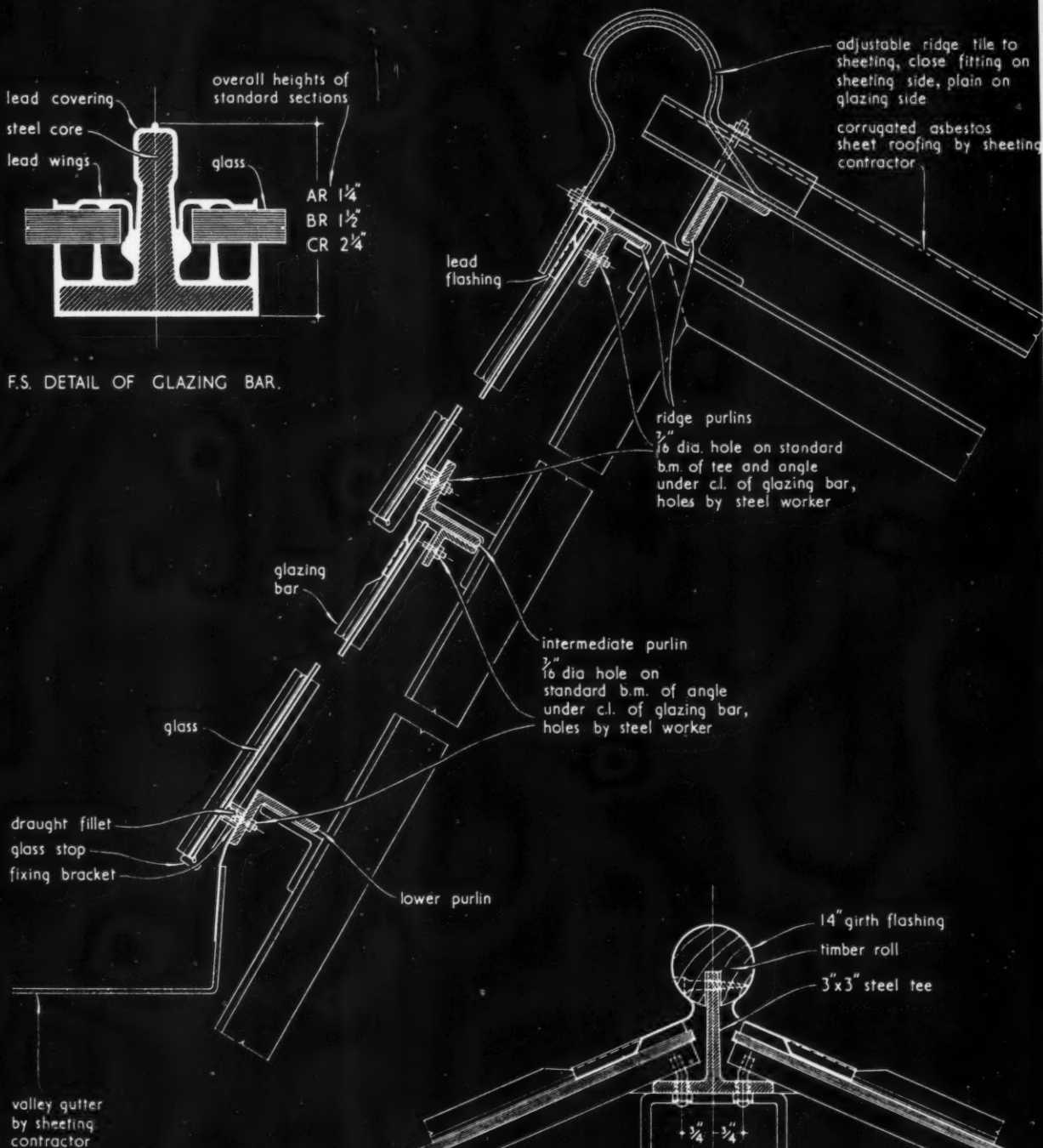
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Bowaters Building Boards Limited.

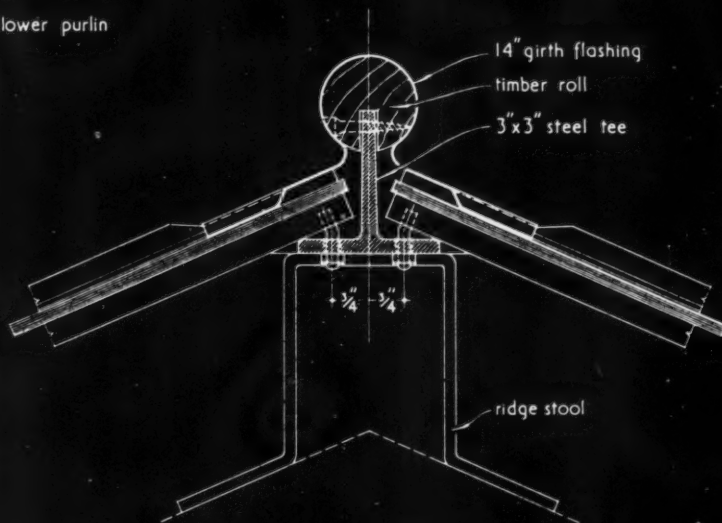
Address : 15, Portman Street, London, W.1.
Telephone : Welbeck 8527.



F.S. DETAIL OF GLAZING BAR.



SECTION THRO' COMPLETE NORTHLIGHT ROOF STRUCTURE.
(for side finish flashing see Sheet 24.N2)



RIDGE DETAIL FOR GLAZED ROOF OF NORMAL PITCH
(for eaves and verge see detail above and Sheet 24.N2)

24.N1 CHALLENGE LEAD CLOTHED STEEL PATENT GLAZING BARS

This Sheet is the first of a series dealing with lead clothed steel glazing bars and illustrates a full-size detail of the Challenge ·Reversed· lead clothed steel glazing bar, together with its application to a north-light roof structure and a glazed roof of normal pitch. Sheet 24.N2 gives details of a glazed panel in a steel roof of normal pitch and Sheet 24.N3 shows the application of the glazing bar to a timber roof construction.

Glazing Bar

Material: The bar is fabricated from a mild steel rolled tee treated with an anti-rust compound and clothed with a lead sheath.

Sizes: Three sizes are obtainable—AR 1½ in., BR 1½ in. and CR 2½ in. deep—to provide suitable spans for use with glass up to 11 ft. long.

Centres: The bars should be spaced at 2 ft. 0½ in. centres wherever possible for use with 2 ft. wide panes of glass.

Glass stop: The end of the steel tee is turned up and lead clothed to form the glass stop.

Water Channels: In pairs, giving dual support and double contact to the pane of glass.

Draught Fillet

Material: The fillet is of creosoted wood and is held in position by means of the glazing bar fixing bracket.

Application to North-Light Roof

Top purlin: The top purlin of tee or angle section is drilled one ⅛ in. diameter hole on standard back-mark at glazing bar centres to take top fixing bolt. Flashing is fixed between the ridge tile and top purlin and dressed down over the glass.

Intermediate purlin: This may be formed of two angles fixed back to back to form a step. The fixing

bracket for the top run of glazing is bolted to the upper angle and the top end of the bottom glazing bar is bolted to the lower angle. Flashing is secured between the fixing brackets and purlin flange and dressed down over the glass.

Bottom purlin: The glazing bar fixing bracket is bolted to the purlin, and the lead flashing is dressed down into the valley gutter.

Application to Glazed Roof of Normal Pitch

Ridge: The detail shown on the face of this Sheet illustrates the finish at the ridge of a typical glazed roof. The glazing bars are fixed direct to the ridge tee which is supported on steel stools.

A timber roll should be used wherever possible, but may in special circumstances be omitted.

Eaves: The detail at the eaves is similar to that shown on the north-light roof detail given on the face of this Sheet.

End panel: Typical details at wall and at side of panel are shown on Sheet 24.N2.

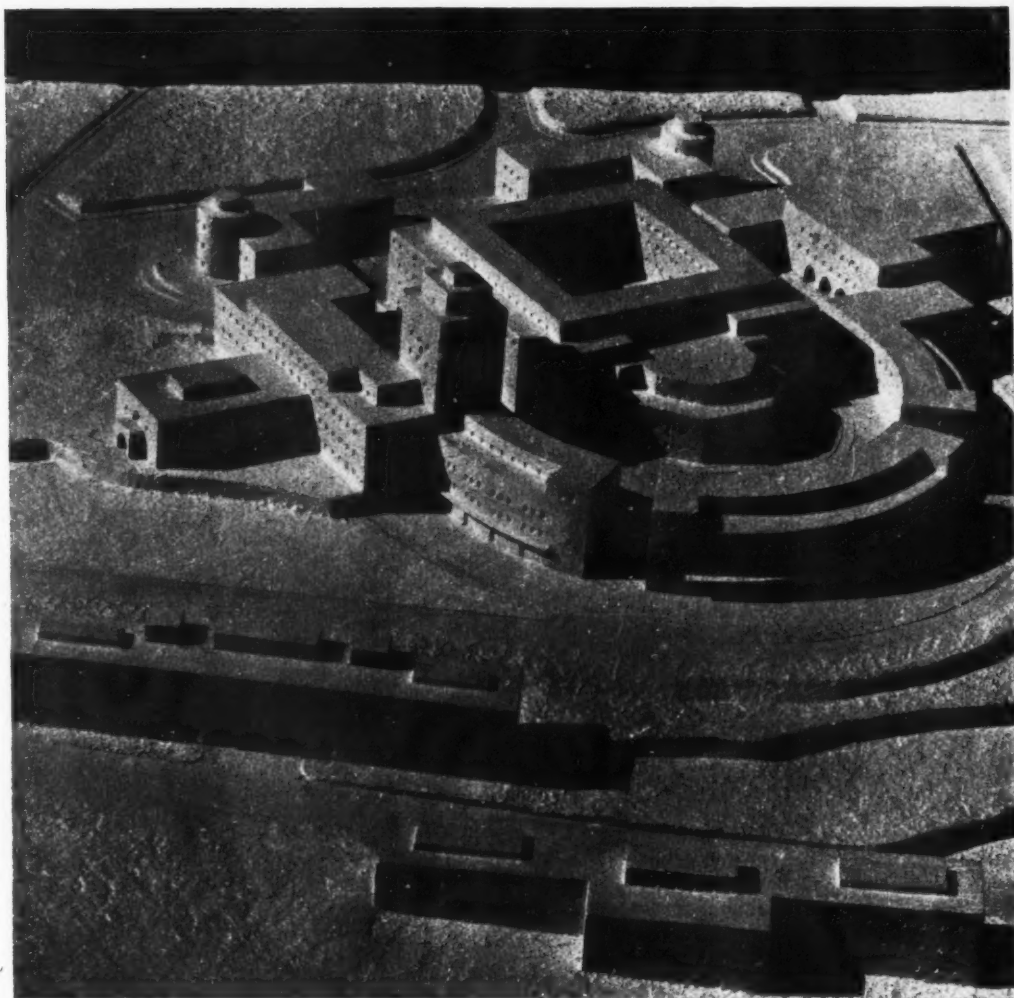
Life of Glazing Bars

The lead clothed glazing bar has been evolved to give reliable service over a long period without maintenance.

Compiled from information supplied by:

The British Challenge Glazing Co.

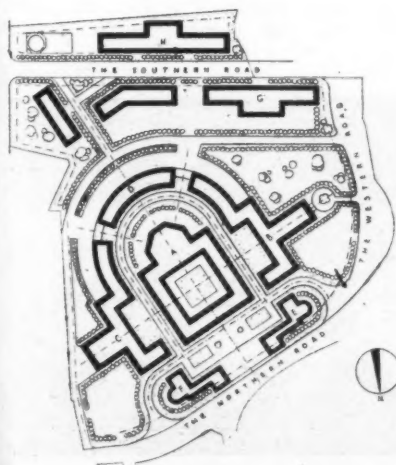
Address: Marshgate Lane, Stratford, London, E.15.
Telephone: Maryland 4161 (7 lines).
Telegrams: Astragal, Phone, London.



From the south-west.

GOVERNMENT OFFICES IN JERUSALEM

DESIGNED BY HARRISON, BARNES & HUBBARD



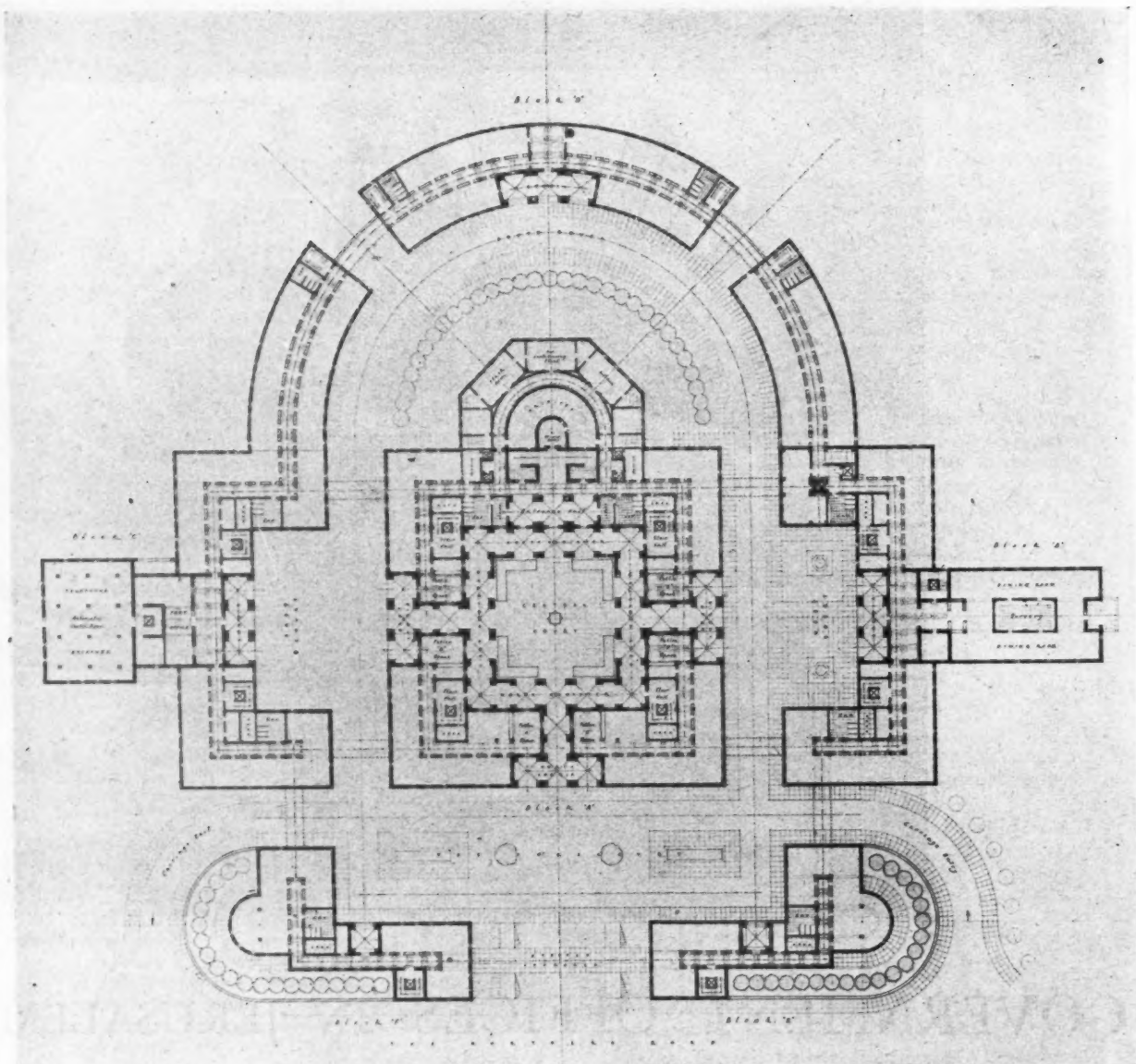
SITE PLAN

GENERAL.—This scheme has been produced on the instructions of the Palestine Government to provide the following accommodation. (a) Legislative Assembly. (b) Restaurant. (c) Telephone Exchange. (d) Post Office. (e) Garage. (f) Flat for Offices Superintendent. (g) Guard House. (h) Departmental Offices.

SITE.—The land acquired by the Government for this project is the summit, west and south slopes of a hill to the west of Jerusalem. It is bounded on the north by a road, on the south by land belonging to Barclays Bank, and on the east and west by Christian and Jewish housing. There is a difference of level of 29 metres, the site

is exposed to cold south and west winter winds. The sub-soil is rocky, there are no trees worth preserving. There is an extensive view to the south. In the town plan for Jerusalem, as approved some years ago, the site is shown to be within an area zoned for houses, but as no modification of the town plan appears to be contemplated, the offices have had to conform to regulations and building lines drawn up to control local authority housing.

PLAN.—To allow for future changes in office requirements, it was decided that all the office area should be planned to be as flexible as possible. To facilitate this a grid of 6 metres in both



GROUND FLOOR PLAN

directions was chosen. This grid, when allowances have been made for walls, piers and fittings, gives a floor area of approximately 30 sq. metres, which forms one

planning unit. Each half unit, except those reserved for stores and archives, is provided with a window and door giving access to a corridor, a radiator, standard

fittings and points for light, power and telephone. The accommodation asked for is contained in eight buildings, of which six, A-F (see site plan) form a group.

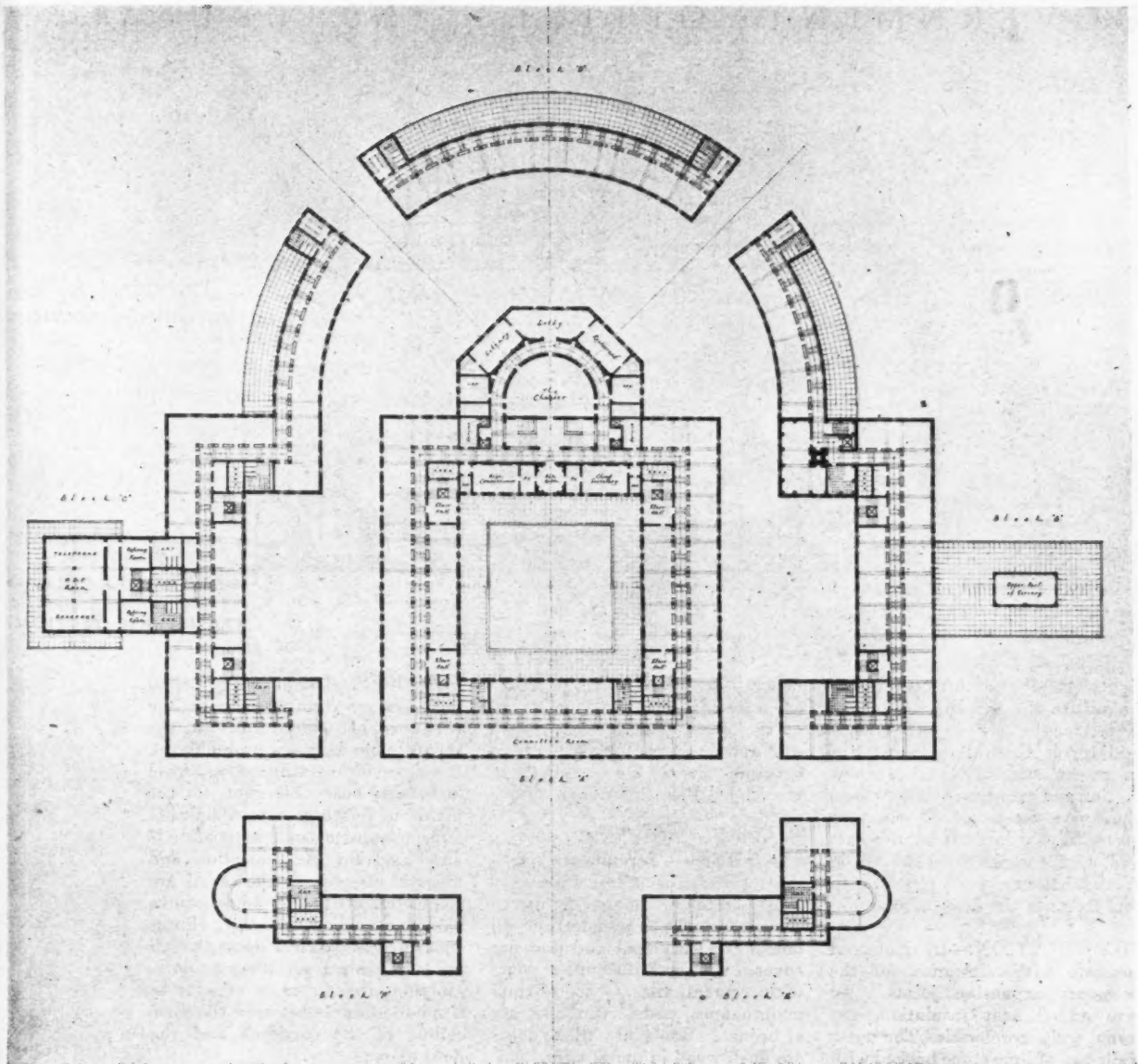
From the east.



GOVERNMENT OFFICES IN JERUSALEM:

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FIRST FLOOR PLAN

Block A is the largest and most important. It rises five storeys with triple arched loggias to the north, east and west. The loggias are linked by vaulted passage ways and by a cloister surrounding the court.

Block B contains a garage and a basement, a restaurant, a dining room to seat 200, a cafeteria and the kitchens. It also has a tower which contains water tanks and chimney from the heating chamber in the basement.

Block C contains a Post Office, telephone exchange, battery room and stores, staff rest rooms and offices for the Department of Posts, Telegraphs and Telephones. Blocks D, E, and F, provide departmental offices only.

These six blocks are so related in plan as to form four courts. The

forecourt to the north, the lateral courts to east and west, and the south court are inter-connected. They are also on the same level, for the rock and soil removed from the hill-top to form part of the plateau is used as a filling to extend it; and the inner walls of block B and of the curved wings of Blocks B and C function as retaining walls at basement and sub-basement levels.

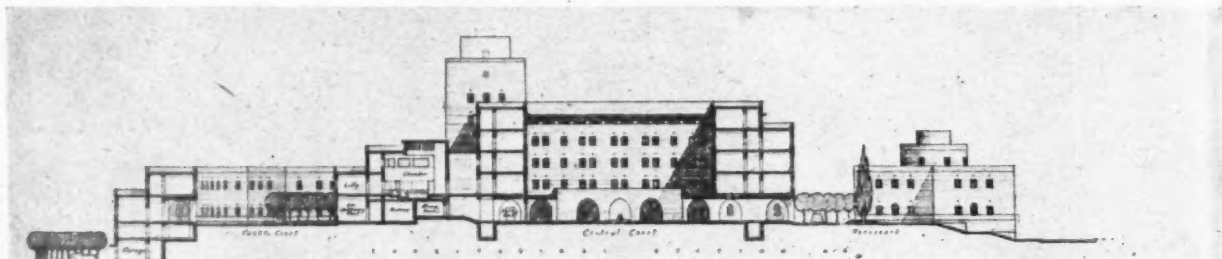
The Northern Road, where it crosses the axis of the Complex, is some 3 metres below the level of the courts. Pedestrians may approach the Government Offices from that road by ascending the broad flight of steps flanked by Blocks E and F. Vehicles must approach by the circular drive to the west, and depart by that to the east, of the forecourt. All the

courts are paved and planted, and it is intended that only the forecourt shall ordinarily be accessible to wheeled traffic. Members of the Legislative Assembly, therefore, and high ranking officials, leave their cars at the north loggia of Block A and walk to the entrance of that building under cover of the vaults of the cloister. Less exalted officials are required to garage their cars in the place provided in the sub-basement, from whence it is possible for them to reach any point in the Complex under cover. There are parking spaces to the east of Block E and to the west of Block B for the general public.

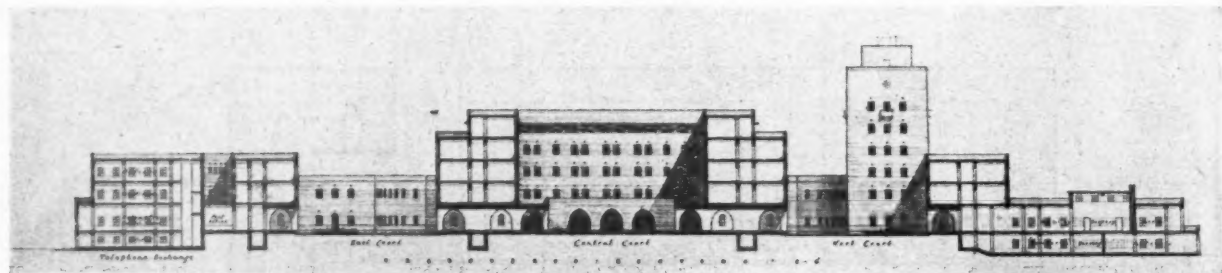
Block G accommodates the Department of Public Works. The building is on four floors, and its siting permits of north roof.

DESIGNED BY HARRISON, BARNES & HUBBARD

GOVERNMENT OFFICES IN JERUSALEM



LONGITUDINAL SECTION



TRANSVERSE SECTION

lights to the architectural and quantities offices. Block H is designed for the Surveys Department and is on three floors. In the basement are the photographic section and extensive stores, which, thanks to the lie of the site, are accessible by lorry from the east end of the building. The siting of the building permits of north roof-lights to the drawing offices.

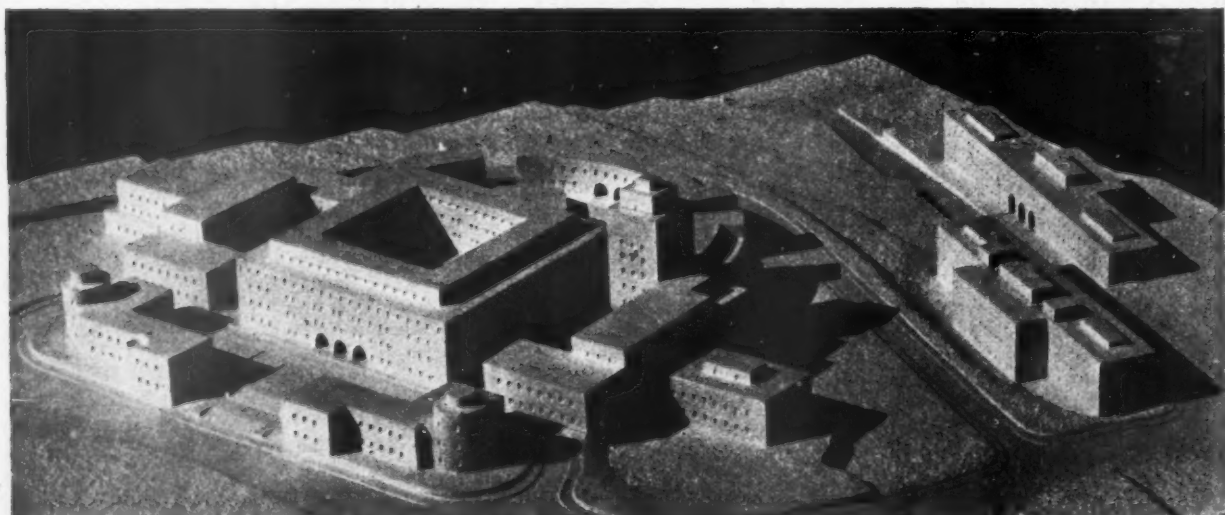
CONSTRUCTION.—In reinforced concrete with allowance for the necessary expansion joints. To give added heat insulation, external walls are double. The outer walls are of lime stone backed with

concrete and the inner of brick, separated by a cavity not shown on the plans. The piers are spaced at 3 and 6 metres, but parts of the concrete floors are vaulted in traditional Palestinian manner.

FINISHES.—Permanent partitions separating offices from corridors of brick; temporary partitions of steel. The floors of all offices and principal corridors are covered with cork tiles, other floors with cement tiles. To obviate maintenance costs, windows are of bronze. Roofs are tiled, doors are flush wood in metal trim.

SERVICES.—One of the principal purposes of the basement, the corridors of which link all the separate blocks below ground level, is to provide continuous one level and easily accessible ducts for the mains of heating, power, lighting and telephone systems, and is also used for the collection and disposal of refuse. The mains are connected with the floors above by pipes, conduits and chutes contained in vertical ducts, which are accessible from the corridors. Horizontal distribution of services is made in ducts between the false ceiling of the corridors and the floor above.

From the north-west.



DESIGNED BY HARRISON, BARNES & HUBBARD

Right,
typical
design
Miss

C

D



Right, the front elevation. Top, a typical kitchen. Bottom, a living room designed by Arcon in collaboration with Miss Gaby Schreiber.



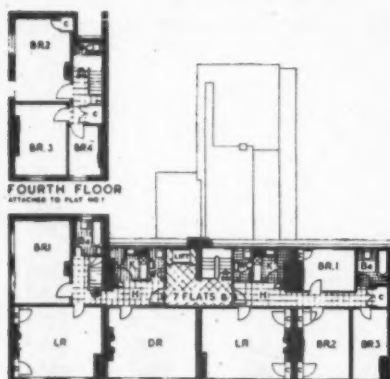
CONVERSION IN EATON SQUARE DESIGNED BY ARCON



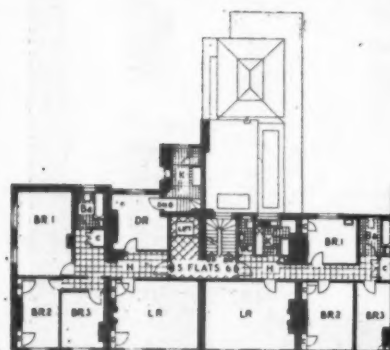
GENERAL.—The scheme consisted of dividing up four houses in Eaton Square, London, into flats.

SITE.—On a corner of a square which is scheduled as an Ancient Monument. It was desirable, therefore, that the alteration should interfere as little as possible with the elevation of the houses.

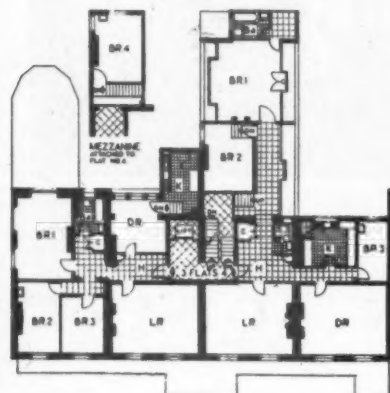
PLAN.—The main entrance to the flats has been formed between houses Nos. 2 and 3, using the staircase of No. 3 as the main staircase for the block and, by cutting out the staircase of No. 2, a lift well has been formed. Flats were then planned to run horizontally over the area of two houses, i.e., Nos. 1 and 2, to the left of the entrance hall and Nos. 3



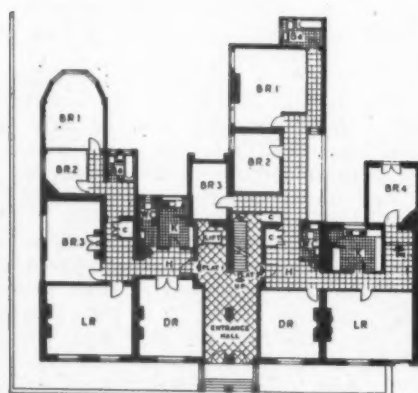
THIRD FLOOR PLAN



SECOND FLOOR PLAN



FIRST FLOOR PLAN



GROUND FLOOR PLAN



A dining-room, top, and a bedroom designed by Arcon in collaboration with Miss Gaby Schreiber.



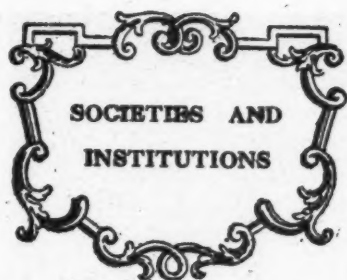
BASEMENT PLAN

and 4 to the right. An additional floor in No. 1 enabled a special maisonette to be constructed. To avoid the depressing atmosphere of basement flats, it was decided to form the entrance to these through the back gardens, which when planted will give the flats a certain degree of seclusion.

INTERNAL FINISH.—Owing to present restrictions, this consisted of one coat of distemper on walls and two coats of paint on woodwork. Certain removable kitchen equipment was obtained as non-licensable fittings.

For list of contractors see page 447.

CONVERSION IN EATON SQUARE: BY ARCON



Speeches and lectures delivered before societies as well as reports of their activities, are dealt with under this title, which includes professional societies, trade associations and government departments. To save space they are represented by their initials—see front cover. Lectures cannot usually be reported in full, but the extracts given are in the speaker's own words.

RSA

H. S. Horsman

April 14. At the Royal Society of Arts, 6-8, John Adam Street, W.C.2. DISTRICT HEATING. Mr Alfred Bossom was in the chair.

H. S. Horsman : A definition of district heating is desirable, but somewhat difficult to frame, and it is perhaps sufficient to state what is meant by district heating as far as this paper is concerned. District heating is the supply of heat from a central source to a number of buildings in order to satisfy their demands for space heating and domestic hot water. The heat carrier may be either steam or hot water, but other sources of heat, such as gas, electricity, or solid fuel, are not essential to the definition, though, in practice, these supplies may be used to augment district heating or for topping up purposes during the coldest weather.

Before proceeding any further it is necessary to know if district heating in this country can be justified. It is often assumed that district heating should be confined to those extensive land masses which experience severe winter conditions, and that such measures are unnecessary in this island because of its equable climate. This basis of comparison is defective and is likely to lead to a misconception. A second and better basis of comparison, and one which applies to many other proposals, is that of its economic feasibility. Success in district heating depends to a large extent upon the load factor of the service, and it is significant that, from this point of view, the British climate is more favourable than that of New York or of Moscow, where district heating flourishes. It is true that the number of "degree-days" for Moscow is about twice as great as the corresponding number for London, but this is merely another way of expressing the fact that, during the heating season, Moscow is much colder than London. A number of careful investigations into probable load factors for this country have been made, and for commercial buildings the range is

20 to 30 per cent., but for housing it is much higher and approaches 40 per cent. Load factors reported from Russia and the USA are no higher than these estimates, and consequently there can be no doubt that there is sufficient climatic justification for district heating in Britain.

ADVANTAGES

Some of the merits claimed for district heating by its supporters are set out in the following list. It is not suggested that the list is exhaustive or that the advantages are presented in the order of their relative importance, and it may well be that the last item on the list could be regarded as of prime importance to-day in view of the coal situation. The advantages are:

- (1) Improvement in domestic heating standards without involving the occupier in additional fuel costs.
- (2) Reduction in dampness and condensation in the home.
- (3) Reduction in domestic drudgery.
- (4) Expeditious handling of coal and ashes in bulk at the central plant.
- (5) Reduction in atmospheric pollution.
- (6) Saving of fuel as compared with the coal consumption due to open grates.

The domestic drudgery to which reference has been made is the work of kindling fires and removing ashes and to the much bigger task of keeping the dust down. The housewife is the person most competent to assess the value of this claim.

The advantage of confining the coal delivery and ash removal to the central plant will also be obvious, as the materials will be handled in bulk. Whether transport to and from the heating station is by rail or road, district heating will have the effect of reducing the small-scale handling of coal and ash which is a feature of the present-day methods.

The effects of atmospheric pollution are now well known, and any measures which might reduce the evil are to be welcomed. The open coal fire is one of the principal offenders in that it favours the emission of soot matter. The adoption of district heating should lead to a reduction in pollution because much less fuel is required to provide the necessary heat.

The pre-war domestic coal consumption in this country amounted to 36 million tons per annum. It is interesting to speculate as to the coal that might be saved by introducing improved methods of heating. The late Sir Leonard Pearce arrived at such results about five years ago, but he had to make assumptions not only with regard to the extent of district heating, but also with respect to the ratio of heat supplied from stations generating heat and electricity to that supplied from straight heating stations.

TYPICAL SYSTEMS

It is almost inevitable that district heating activities, which have been so successful abroad, should spread to this country. Much study has been devoted to the subject during and since the war in order to establish the system here and to secure, if possible, the potential advantages which it offers. Many specific schemes have been worked out to suit as many special circumstances, for example, small housing estates with as few as 500 residents have been considered on the one hand, and a provincial town having a population of 250,000 on the other. Many schemes of intermediate size have been proposed, and some of them have been sanctioned. With reference to the small schemes in connection with new housing estates, these should, notwithstanding their essentially simple nature, realise to some extent most of the advantages already mentioned. It is, however, to the larger schemes that attention is here directed, and these schemes usually depend upon the combined generation of heat and electricity in what are known as Thermal-Electric Stations. In the usual electric generating station the steam is admitted to the turbine and expanded to a very low

pressure and temperature, and is then useless for district heating purposes. By increasing the exhaust steam pressure, its temperature will be automatically raised to a value which makes it available for heat distribution. The residual heat of the steam is utilized either directly as in American district heating practice, or indirectly as in many new plants which transfer the heat to water, which then becomes the heat carrier. The Thermal-Electric Station operates in the manner just described, and the turbines which operate at high back pressure are termed back pressure machines.

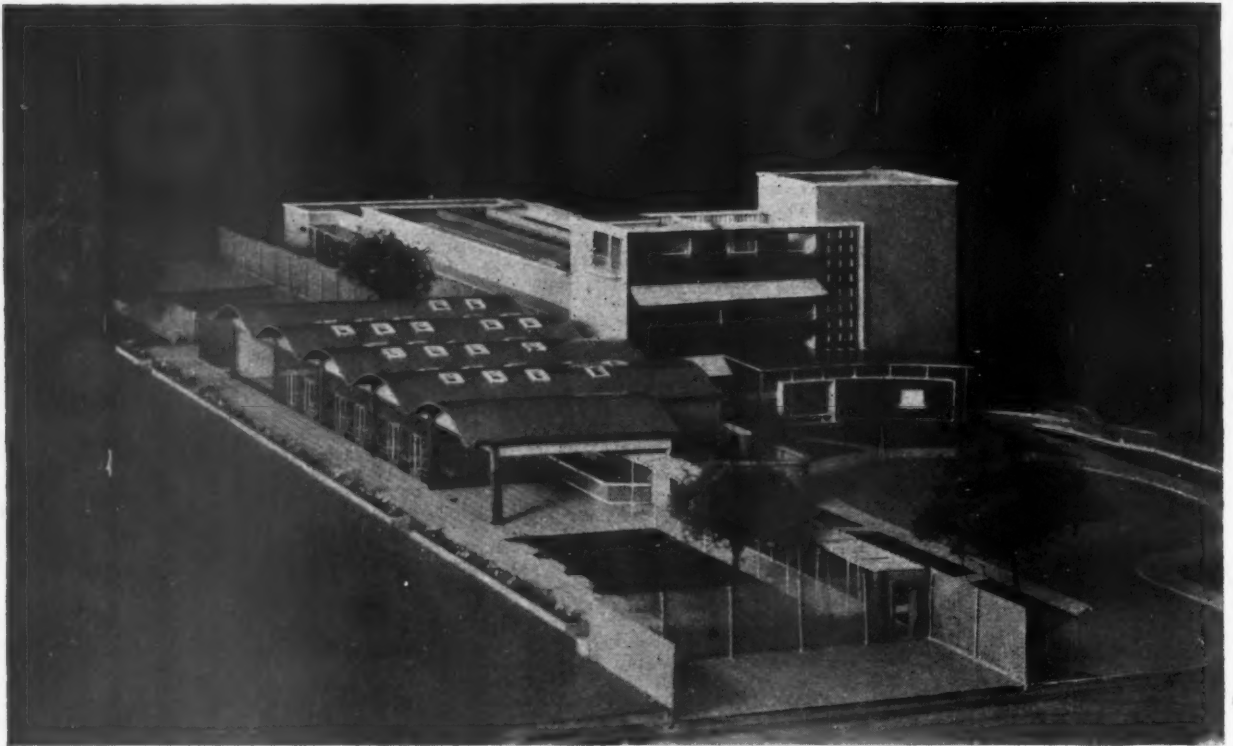
Having indicated the broad principles of combined generation, it is appropriate to compare the efficiencies of normal electricity generating stations with those of the Thermal-Electric type. The thermal efficiency of a modern electricity generating station may be taken as almost 30 per cent., and, when the limitations of the usual steam cycle are taken into account, this represents a magnificent achievement. The principal limitation is the large loss of heat to the condenser, and it is this heat which is saved by combined generation. In the case of the Thermal-Electric station the only losses that could reasonably be debited to electrical generation are those associated with the boiler plant, the alternators, transformers, and certain of the station auxiliaries; this means that the thermal efficiency would be at least 75 per cent., or, in other words, that a unit of electricity could be generated for the expenditure of only 4,500 British thermal units.

The heat losses from district heating mains depend upon the physical dimensions of the system, the load density, and the load factor, together with certain details of construction. Contrary to popular opinion, the losses are not very large, and would usually be less than 11 per cent. of the maximum hourly heat demand, the annual loss being less than 20 per cent.

The fuel savings to be secured by combined generation have been widely studied, and, according to the assumptions made, the estimates seem to lie between 25 and 35 per cent. of the coal required for the separate generation of the two forms of energy.

DESIGN AND CONSTRUCTION

The design of a large heat distribution system calls for the exercise of sound engineering judgment, in which reliability should always take first place; economical design is very desirable, but quite secondary to reliability. The importance of this will be appreciated by those with experience in the running of a public service. To those who have no such experience it is essential to consider the implications of an interruption in district heating, especially when alternative means of heating are not available. The granting of powers to supply heat to consumers carries with it the obligation to maintain a service at all times. In the case of district heating the availability of the service is very closely related to the thought put into the design of the heat distribution system. It should always be possible to supply heat to any part of the network by alternative routes, though the alternative might reasonably involve some reduction in heat supplies. In some of the Russian networks this point was either not fully appreciated or was ignored; radial systems with but few inter-connectors were provided and serious interruptions occurred. It has been reported that such an interruption of several days' duration occurred at Kharkov in January, 1935, during a cold spell of 22/31 degrees of frost, and that the entire heating system was shut down on the eleventh of the month for twenty-four hours to locate blockages and to effect repairs. Interruptions of such magnitude must be avoided, and assuming that a satisfactory scheme of distribution has been devised, continuity of supply will largely depend upon detail, design, and construction.

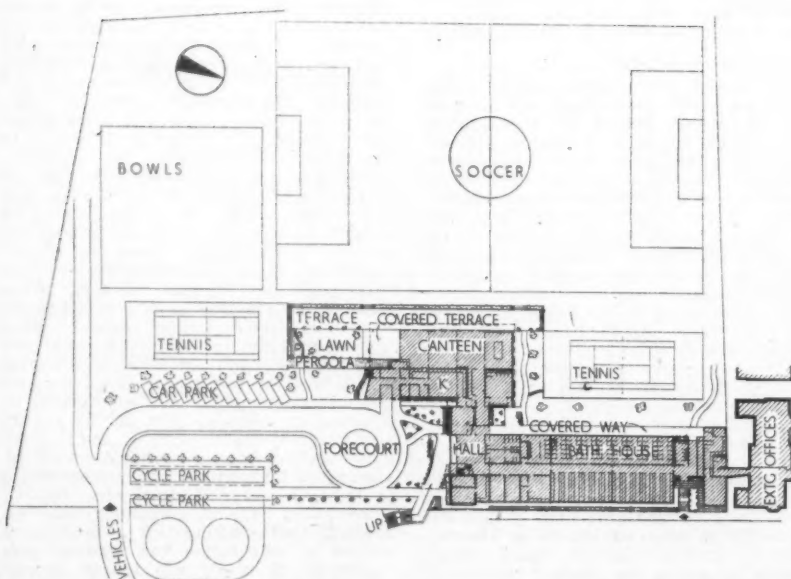


From south.

GASWORKS BATHS AT COVENTRY

DESIGNED BY D. E. E. GIBSON,

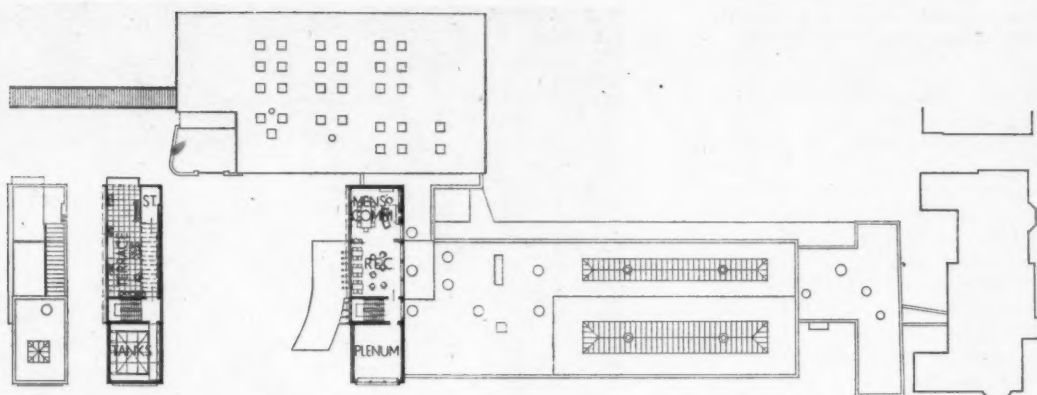
CITY ARCHITECT



SITE PLAN

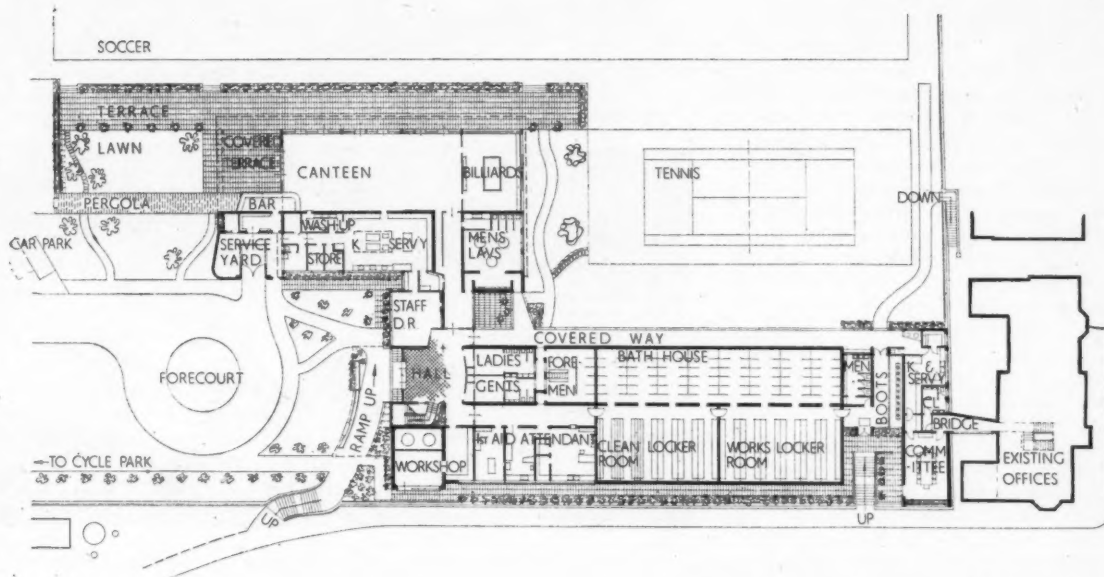
GENERAL.—This scheme is envisaged as a gas works equivalent to pit head baths with recreational facilities and, as such, is the first of its kind in this country. The scheme is for new baths, changing rooms, canteen and recreational facilities for 300 day workers and 220 shift workers. In addition, a gas committee room with its own kitchen, servery and cloak-rooms is desired with direct access from the existing offices adjacent to the site.

SITE.—The layout was determined also by a retaining wall averaging 8 ft. 0 in. high on the north and east sides of the site. Access to the site was available on the east side only. In the design stage it became apparent that the building should adjoin the retaining walls at the north east corner if adequate sports facilities were to be provided. All services, including ample supplies of steam,

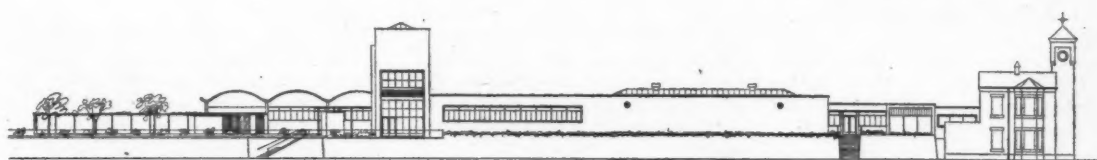


ROOF AND SECOND FLOOR PLAN

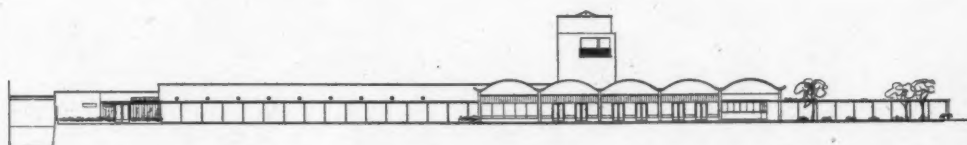
FIRST FLOOR AND ROOF PLAN



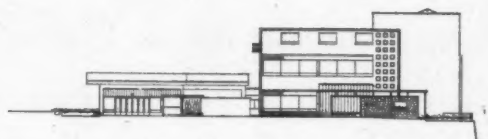
GROUND FLOOR PLAN [Scale: $\frac{1}{4}" = 1' 0"$]



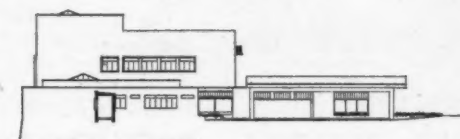
EAST ELEVATION



WEST ELEVATION



SOUTH ELEVATION



NORTH ELEVATION

were available and thus a separate boiler-house was not necessary.

PLAN.—For ease of circulation, a single-storey layout for the baths and canteen sections was adopted with a recreation and reading room on the first floor linked to the calorifier/plenum chamber and the tank room tower.

The baths section is based on normal pit head baths practice with the omission of boot-greasing and bottle-filling units. The clean entrance is combined with the main entrance to the canteen, staff dining and recreation rooms. The works entrance adjoins the gas committee room wing. A by-pass circulation to the canteen via the works entrance is provided under cover, together with the men's wash-room and lavatory for quick washes at lunch time.

The canteen is designed for the present maximum of 150 meals at one time on the assumed basis that the 300 day workers can be accommodated, if necessary, in two shifts. The canteen seating can be expanded to take up to 200 at a time. There is a small staff dining room with separate service from the main kitchen. The kitchen and its ancillaries are designed to provide container meals for 70 workers at the Gas Street Works, three miles away. On the first floor, in the centre block is a large recreation room equipped as a small library and reading room and for men's committee meetings; on the second floor is a roof terrace with balcony overlooking the sports field.

CONSTRUCTION.—R.C. frame with shell concrete roof to canteen. R.C. frame and floors to centre block. Load bearing brick walls, R.C. beams and roof to baths section. Cavity walls throughout of varying sizes to contain the R.C. frame, thus avoiding projections either inside or outside. Floor

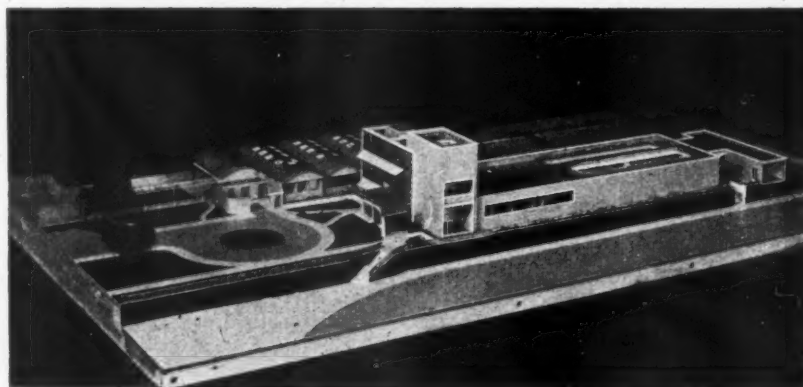
finishes to be composition block in the canteen, hardwood strip in the staff dining room, recreation room and gas committee room, terrazzo tiles to entrance hall, asphalt laid to fall in baths section. Tiled partitions and tiled dado in bath house with tiled dados elsewhere as required. Metal windows and metal or metal-faced flush doors. Continuous patent glazing to bath house and locker rooms.

Dome lights to canteen, corridors, etc.

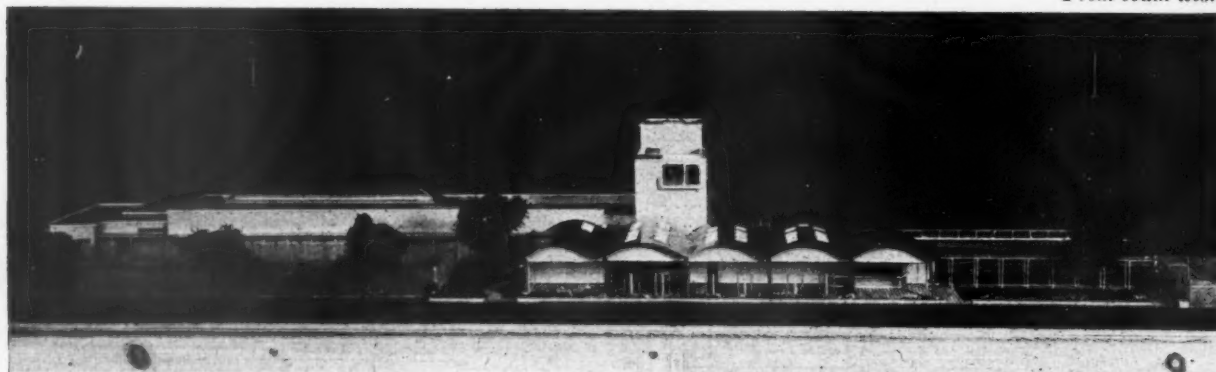
SERVICES.—Plenum heating to lockers. Low temperature panel heating in canteen, staff dining room, recreation room, etc. Mechanical ventilation to bath house, locker rooms and kitchens. Hot water for showers provided from calorifiers which also supply domestic hot water to kitchens.



Above, from north-west; below, from east.



From south-west.



GAS WORKS BATHS AT COVENTRY, BY D. E. E. GIBSON

east.

west.

ON

WOOD CASEMENT WINDOWS



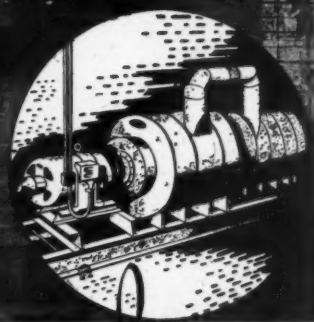
Boulton & Paul Limited

NORWICH

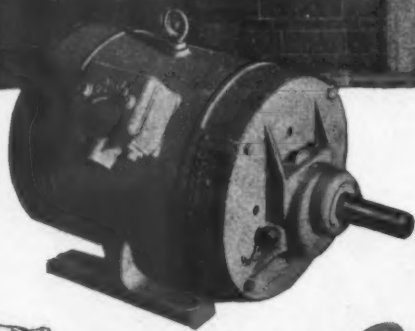
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INFORMATION CENTRE • INFORMATION SHEETS
QUESTIONS AND ANSWERS • CURRENT TECHNIQUE
THE INDUSTRY • PRICES • TECHNICAL ARTICLES

TECHNICAL SECTION

A digest of current information prepared by independent specialists; printed on one side of the paper only, to allow readers to cut out the items for filing and paste them up in classified order. Headings below.

INFORMATION CENTRE

1 SOCIOLOGY. 2 PLANNING: General. 3 PLANNING: Regional and National. 4 PLANNING: Urban and Rural. 5 PLANNING: Public Utilities. 6 PLANNING: Social and Recreational. 7 PRACTICE. 8 SURVEYING, SPECIFICATION. 9 DESIGN: General. 10 DESIGN: Building Types. 11 MATERIALS: General. 12 MATERIALS: Metal. 13 MATERIALS: Timber. 14 MATERIALS: Concrete. 15 MATERIALS: Applied Finishes, Treatments. 16 MATERIALS: Miscellaneous. 17 CONSTRUCTION: General. 18 CONSTRUCTION: Theory. 19 CONSTRUCTION: Details. 20 CONSTRUCTION: Complete Structures. 21 CONSTRUCTION: Miscellaneous. 22 SOUND INSULATION, ACOUSTICS. 23 HEATING, VENTILATION. 24 LIGHTING. 25 WATER SUPPLY, SANITATION. 26 SERVICES, EQUIPMENT: Miscellaneous. 27 FURNITURE, FITTINGS. 28 MISCELLANEOUS.

2.34 planning: general

TOWN PLANNING: ARCHITECTURE

The Architect and City Planning. H. S. Churchill. (Prog. Architecture [USA], Apr., 1948, pp. 57-59.)

Stimulating article analysing architect's responsibilities and opportunities within field of architectural urbanism. Critical examination of city planning tasks well worth reading.

The author, an American architect and town planner, states that during his recent activities in connection with town planning he felt, as an architect, "neither amused nor edified." He accuses the planning profession of having already become stagnant by adopting "a cut-and-dried technique" and following "a process of diagnosis without imagination." The influence of the statistician has become all too powerful, and while sound financial aspects based on statistical survey work should be an important objective of the day-to-day work of planning authorities it is just as important to consider the architect's contribution towards city planning which should give "to the whole the human values and the integration of form that make a city more than a place in which to breed and earn a living."

The architect's participation in town planning should result in a return of the art of architecture to its old scope and in a return of the planning of cities to its old dignity as an art.

The architect in his artistic expressions has always been submitted to the most severe conditions of use and cost, but unless he transcends these limitations his profession is not an art at all, only a trade, and not a very profitable one at that. In dealing with the physical and human aspects of town planning it should be the architect's task to crystallise the form of a city by integrating space, structure and people into a three-dimensional order. He should consider political and economic aspects only as of

secondary importance in his contribution towards town planning, and he should produce solutions on the grand scale, because it is a fact that in the long run—in big cities at least—"the cost of a real solution is bound to be less than the cost of the continued losses entailed in no solution."

The article deals further with the architect's opportunities in the building of new towns and with the necessity to consider the advent of atomic power from an architectural point of view, because architects "cannot, as intelligent professionals, leave it to the wholly destructive military mind."

In conclusion, it is stated that urban architecture must weld together the new physical elements of our time in harmonious space relations so that they may adequately serve the new needs of the people and arouse a new civic pride in three-dimensional environment.

9.5 design: general STANDARDS

An Introduction to Standards in Building. D. Dex Harrison. (E. and F. N. Spon Ltd., 1948. 8s. 6d.)

A general study of subject of standards. Clear and reasoned approach of definite interest to architects, with useful survey of present position. Discusses wide aspect of subject. 83 pp., illustrated.

This is an excellent study of a much misunderstood subject. The author has a clear analytical approach mixed with some pleasant touches of humour, together with some healthy outbursts of indignation at the present state of things.

After a refreshing introduction defining the subject there is a chapter on integration and dimensional co-ordination. Here and later in the book a strong case is made for standardization at the international level and for the use of a human basis for dimensional standardization. The next chapters, *The Formulation of a Standard and Ways in which Standardization is Applied*, contain a most efficient survey of the history and present-day conditions of standards in the building industry, including the work of the



THE LIBRARY OF INFORMATION SHEETS

14.L1 and 26.J5 REFERENCE BACK

Readers are asked to note the following amendments and to correct their copies of the Information sheets in question:

14.L1.—Selling agents are now *Bowaters Building Boards, Ltd.*, instead of *Lloyd Boards, Ltd.* The address remains the same.

26.J5.—Scale on drawing should read $\frac{3}{8}$ in. = 1 in., not $\frac{3}{4}$ in. = 1 ft.

Codes of Practice Committee.

The final chapter, *Design Standards*, brings the author to an issue on which he will have many supporters, for he comes down heavily against the introduction of any standardization of design.

Altogether a most readable and interesting treatment of a subject which architects cannot afford to ignore.

10.31 design: building types OFFICES

Conditions in Offices. J. E. Drake. (Municipal Engineering, Apr. 9, 1948.)

General paper on requirements for heating and ventilation, lighting, sanitary accommodation, sound-proofing. The lack of adequate legal safeguards for office workers. Of general interest.

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

QUESTIONS AND ANSWERS

2944 BUILDING LAND; DEVELOPMENT CHARGES

Q During the war a client of mine bought a piece of land for which he paid "building land" value, with the intention of building a house for himself as soon as conditions permitted. I prepared plans and received the Local Authority's consent under bye-laws and Town Planning in June, 1947. Owing to changed circumstances, my client is now considering disposing of the land, but before a decision is reached could you inform me whether, under the new Town Planning Act, he will be liable to pay a "development charge" on the transaction, if he re-sells at a similar figure to that at which he bought the land?

A Under section 77 of the 1947 Planning Act, where the development has not been carried out by July 1 next, for which permission has been granted under the Interim Development Act, 1943, together with any consent required under the Ribbon Development Act, planning permission for the development is deemed to be granted under the 1947 Act if the permission under the 1943 Act is in force on July 1 next. Development charge will be payable.

Under section 21 of the 1947 Act the permission under the 1943 Act may be revoked or modified, and under section 22 compensation may be payable in respect of loss or damage due directly to the revocation or modification and expenditure on plans prepared for the development may also be claimed. Under section 19 the local authority may have to purchase the land if the provisions of that section apply.

As neither a bye-law nor planning application had in this case been made within 10 years before January 7, 1947, no application can be made under section 80 that the land was ripe for development before July 1 next, and that therefore no development charge is payable.

A prospective purchaser of the land in question would therefore take into consideration the provisions of the 1947 Act in deciding the price he is prepared to pay.

If the development approved under the 1943 Act was in actual course of erection on July 1 next, consent to the completion would be deemed to have been granted under the 1947 Act, and no development charge would be payable.

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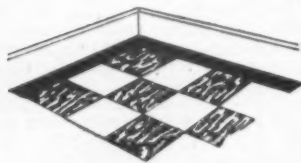
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The Penmaenmawr & Trinidad Lake Asphalt Co., Ltd., LIVERPOOL.

The Western Trinidad Lake Asphalt Co., Ltd., CARDIFF.

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

THE INDUSTRY

BRITISH INDUSTRIES FAIR

The exhibition at Castle Bromwich contains the main items of interest from the architect's point of view. Here there is a section devoted to Building (roughly a quarter of the whole area) but it is not possible to limit a visit to this group, for such things as cookers and other equipment are found in the electrical section, while there is a good deal of structural stuff in the engineering group. Nor should the hardware be missed. The general impression is that there is not very much new since the Building Exhibition in the autumn, nor would it be reasonable to expect a great deal more than a few new designs.

One particularly interesting new development is the use of peat granules as an insulating material in the Hotric thermal storage electric water heater. The suppliers claim that this material has a thermal insulation figure 25 per cent. greater than granulated cork, while its weight is 6½ lb. per cubic foot. In any situation exposed to the air the moisture content of the peat naturally varies with the relative humidity, and it thus resembles wool, cotton and similar organic fibres. In a water heater, however, any moisture should evaporate at once as soon as the heater is switched on. From the corrosion point of view the peat granules contain a certain amount of humic acid, equivalent to about 0.1 per cent. sulphuric acid, but it is claimed that this is unlikely to have any effect, as steel tools used for cutting peat are not corroded by the humic acid even when they are immersed in the peat for a number of years. Any aqueous extract made from the peat is colourless, so it is thought that it would be unlikely to cause any staining of paintwork. (*British Made Electric, Ltd., Hotric Works, Broxburn, West Lothian, Scotland.*)

Also in the electrical section is the new BNE type C49 cooker, illustrated on this page. This is produced by the domestic appliances section of Johnson and Phillips, and has been designed after consultation with a large number of supply undertakings. As a result the maintenance problem has received full attention, all the elements are of the plug-in type to EDA interchangeability specification, while the removal of one side panel gives access to all wiring and switches, and any fuses which may be fitted.

From the user's point of view, the vitreous enamel finish should make the whole thing easy to clean, thermostatic oven control is standard instead of being an optional extra, there is a hot cupboard and an optional drawer in the base, while the oven door is bottom hung, a feature which is always claimed to appeal to the housewife, and which certainly makes it easier to remove dishes from the oven. Quite a number of manufacturers are afraid of the bottom-hung oven door, and the heavy weight of an insulated door plus a heavy dish, and the considerable overhang certainly make it essential for the hinges to be very stout. This is comparatively easy to achieve, but a further objection is that the open door makes an all too convenient step, which somebody will one day use, so that the door either

comes off or the whole cooker is pulled over.

For some as yet unexplained reason it seems that this type of door is more often found on electric than on gas cookers, perhaps because of the corrosive action on the counterbalancing springs. Data on any troubles in actual use would be helpful. (*British National Electrics, Ltd., Charlton, London, S.E.7.*)

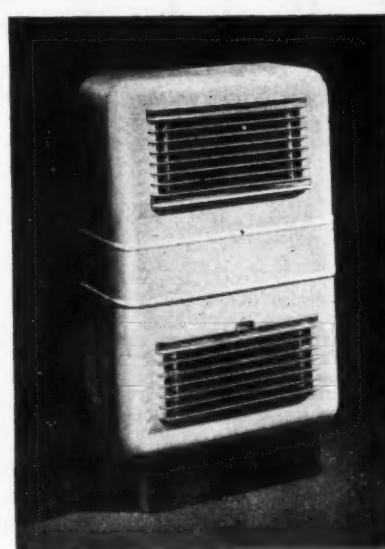
I have noticed, too, that the new Parnall EC10 Electric Cooker, designed for overseas markets, has the bottom-hung oven door. This cooker, designed by Christian Barman, has, in addition, top and bottom oven elements, the top for grilling. This apparently is to meet overseas requirements where the traditional English design is not acceptable. (*Parnall (Yate), Ltd., 43, Park Street, W.1.*)

While on the subject of cookers, the Brockhouse organization are showing an Elgin gas cooker and the new Elgin model designed for use with bottled gas, both made by the associated company Orme Evans and Co. On the same stand is the Watts automatic boiler, already seen at Olympia. (*Brockhouse Heater Co., Ltd., Victoria Works, Hill Top, West Bromwich, Staffs.*)

Still on the subject of cookers, Radiation confines their exhibit to restaurant and café equipment, including a new three-unit fish fryer, and the standardised cafeteria service counters shown for the first time at the Catering Exhibition. Mention has already been made in these notes of the Radiation scale reducer, a small water softener intended for use with sink storage heaters; larger models are now made capable of treating up to 2,000 gallons of water a day. (*Radiation, Ltd., 7, Stratford Place, London, W.1.*)

Other gas equipment is shown by John Harper, who have a series of fires and space heaters, one of which is illustrated here. This stand is in the hardware section, as the firm also makes household goods of all kinds. (*John Harper and Co., Ltd., Willenhall, Staffs.*)

Turning from equipment to structure, D. Anderson, well known for their various roofing and other felts, are showing their Thermosteel decking, already noticed here, and a new type of insulated decking marketed under the name of Thermolok. This consists of a decking in aluminium plus



Harper portable convector gas radiator. 20½ in. high, 12½ in. wide and 6½ in. deep, it is constructed of steel, finished pastel blue with chrome burners and has a gas consumption of 10 cubic ft. per hour.

insulation and a weatherproof finish, and is suitable for all types of roof. The design is standardized, but the system is adaptable and can be varied to suit any special constructional requirements and to meet any span or loading. Irregular areas can also be covered. No scaffolding is required for erection, and maintenance costs should be low, while it is easy to fix conduit and wiring. (*D. Anderson and Son, Ltd., Stretford, Manchester.*)

Sealocrete are showing a new cork cement flooring in which colours have been incorporated. The result is warm, silent, and waterproof, and it can be laid on almost any base. It is sold in sacks and it is only necessary to add water to the mix. It is also put forward as an internal wall finish having good sound absorption qualities. (*Sealocrete Products Ltd., Atlantic Works, Macbeth Street, London, W.6.*)

Light Alloys are well represented with Almin Ltd. (*The Chalet, Farnham Royal, Bucks.*) showing sectional buildings roof trusses, and other fabricated work, while Northern Aluminium (*Wellington House, Lancaster Place, W.C.2*) have a display of large structural sections and sundry other building trade applications.

A Castle Bromwich visit should not omit the outdoor section, where there is to be found a much larger display than in previous years. Tubular scaffolding and plant of all kinds, aluminium windows (shown out of doors to emphasize their resistance to corrosion), mobile cranes, and plenty of large-scale contractors' plant which is worth far more than a casual glance.



BNE electric cooker with hot cupboard and bottom-hung door.

Buildings Illustrated

Conversion of Houses, Nos. 1-4, Eaton Square, London. (Pages 439-440). Architects: Arcon. General Contractors: Wates, Ltd. Sub-contractors: Central heating, R. A. Brinkworth, Ltd.; boilers, Ideal Boilers and Radiators, Ltd.; electric wiring, Hartley & Co.; plumbing, R. A. Brinkworth, Ltd.; sanitary fittings, B. Finch & Co., Ltd; lifts, Keighley Lifts, Ltd.

PRICES

This regular feature, prepared by Davis, Belfield and Frost, Chartered Quantity Surveyors, summarises basic prices for materials and gives labour rates for the London District and Grade Classifications outside London. In the past, prices for materials have been expressed as a percentage over pre-war rates. This practice is no longer being continued as it is felt that pricing by references to pre-war standards can now be considered obsolete. Detail prices of materials are given quarterly.

BASIC MATERIALS	BASIC PRICES AND RATES OF WAGES, 1948			
	January	February	March	April
Portland cement (6 tons and over) per ton	60/6	60/6	60/6	60/6
Paper bags per ton	11/-	11/-	11/-	11/-
2-in unscreened ballast per yd. cu.	14/5	14/5	14/5	14/5
Fletton bricks (at station) per 1,000	73/-	73/-	73/-	73/-
Stoneware drain pipes (British standard, 2 tons and over) Standard list +	42½%	42½%	42½%	42½%
Roofing tiles per 1,000	90/- + 100%	90/- + 110%	90/- + 110%	90/- + 110%
Steel joists (basic sections ex mills) per ton	£17 8s.	£17 13s.	£17 13s.	£17 13s.
Lime greystone	84/9	84/9	84/9	84/9
Sheet lead (5 cwt.-1 ton lots)	£107 10s.	£107 10s.	£107 10s.	£107 10s.
Iron rainwater goods and soil pipes. List 3100 AB +	70%	70%	70%	70%
White lead paint per gallon	43/3	43/3	42/9	42/9
RATES OF WAGES (LONDON)—				
Within 12 miles radius				
Craftsmen per hour	2/10½	2/10½	2/10½	2/10½
Labourers	2/3½	2/3½	2/3½	2/3½
From 12 to 15 miles radius				
Craftsmen	2/10	2/10	2/10	2/10
Labourers	2/3½	2/3½	2/3½	2/3½

Prices of materials above include for delivery to site in the Central London Area, and the rate of wages are for London only.

Current rates of wages outside London are as follows: Liverpool and District, Craftsmen, 2/10½; Labourers, 2/3½.

GRADE CLASSIFICATIONS

	A	A¹	A²	A³
Craftsmen	2/9	2/8½	2/8	2/7½
Labourers	2/2½	2/2	2/1½	2/1½

Davis

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EXPORT OR



The illustrations on this page show some of the special night-stop accommodation rooms for Airports abroad, executed by Story & Co. Ltd. for British Overseas Airways Corporation.

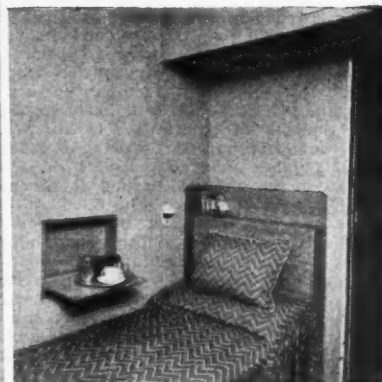
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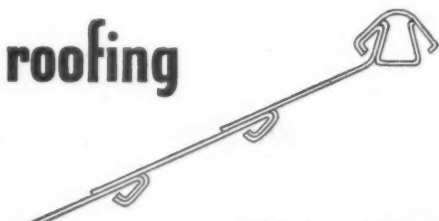
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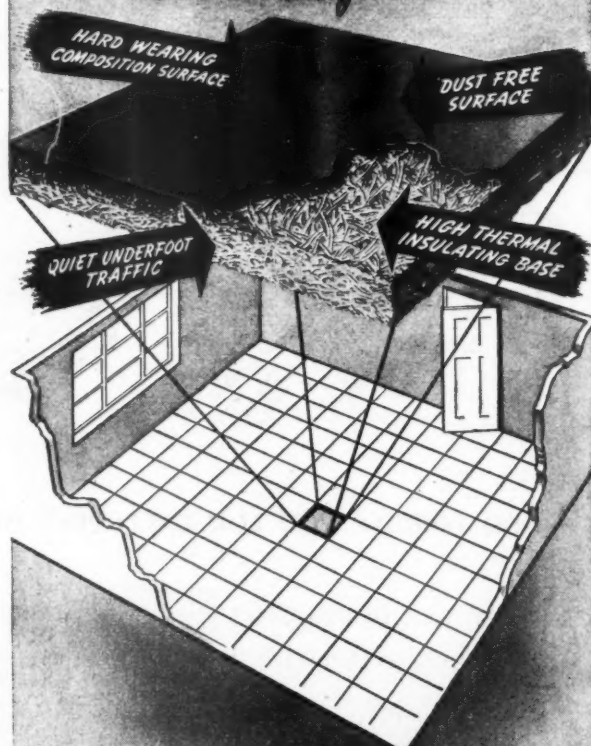
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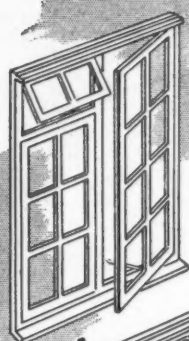
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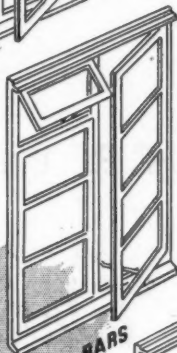
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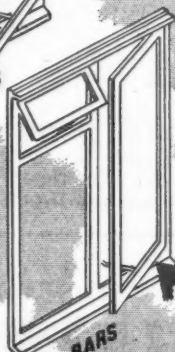
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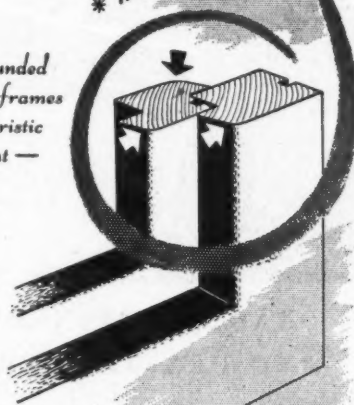
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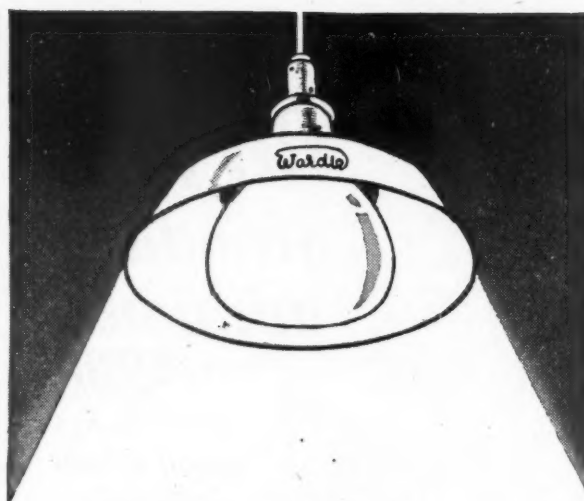
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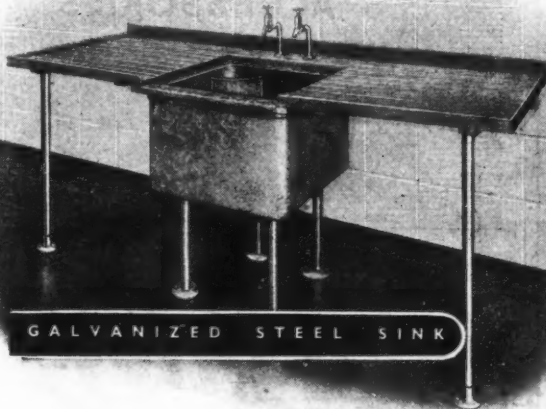
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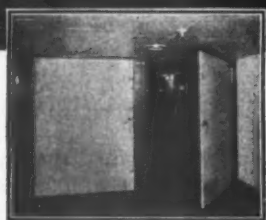
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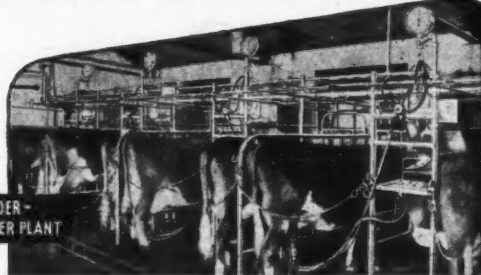


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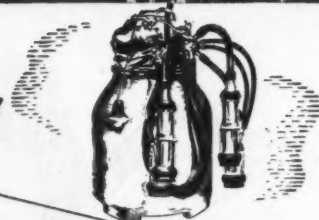
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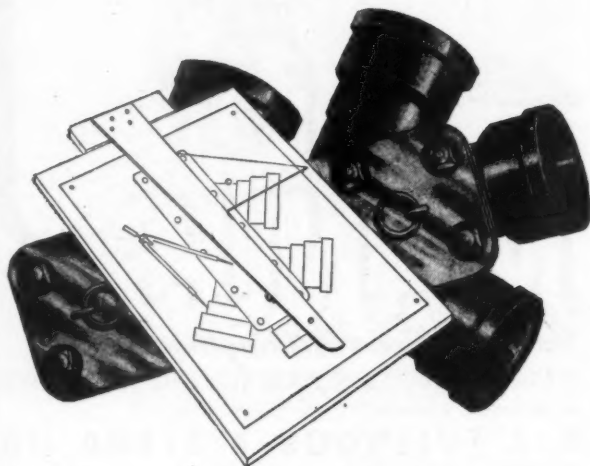
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Guinness, A., Son & Co. Ltd., London and Dublin.
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Home & Colonial Stores Ltd., London and Branches.
Hull Ice Co. Ltd.
Imperial Chemical Industries Ltd., London and elsewhere.
Iraq Petroleum Co. Ltd., London and Oilfields.
Jacob, W. & R. (Liverpool) Ltd.
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Mayfair Hotel, London.
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CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13, Queen Anna'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.

None of the vacancies in these columns relates to a man between the age of 18 and 50, inclusive, or a woman between the age of 18 and 40, inclusive, unless he or she is exempted from the provisions of the Control of Engagement Order, 1947, or the vacancy is for employment excepted from the provisions of that Order.

Public and Official Announcements

6 lines or under, 10s.; each additional line, 1s. 6d.
THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. ADDRESS: 75, EATON PLACE, LONDON, S.W.1. TEL. SLOANE 5615. 951

LONDON COUNTY COUNCIL. VACANCIES FOR PLANNING STAFF IN THE ARCHITECT'S DEPARTMENT FOR WORK ON THE COUNTY OF LONDON PLAN.

Applications are invited for a number of positions in the following grades:—
PLANNING OFFICER. Grade III, £550 to £700 a year.

TECHNICAL ASSISTANT. 55s. a week to £240 a year.

Commencing rate of pay will be according to qualifications and experience. There will be opportunities for competing, on merit, in due course for permanent appointment and for positions in the higher grades on the occurrence of vacancies. Successful candidates will be subject to the Council's Superannuation and Provident Fund.

The planning work involved includes assistance in the detailed development of Reconstruction Area schemes and the preparation of revised zoning plans.

A knowledge of current town planning legislation is desirable in all cases, and candidates for Grade III positions should possess architectural, surveying, or town planning qualifications.

Application forms may be obtained from the Architect to the Council (P), County Hall, Westminster Bridge, S.E.1 (enclosing stamped addressed foolscap envelope). Returnable not later than ten days from this date.

Canvassing disqualifies. (340) 968

LONDON COUNTY COUNCIL.

HOUSING AND VALUATION DEPARTMENT. ARCHITECTURAL ASSISTANTS. Applications are invited for positions of Architectural Assistant, at salaries of up to £580 a year. Commencing salaries will be determined according to qualifications and experience, and qualified candidates will be eligible for appointment to the permanent staff of the Department on the occurrence of vacancies. Engagement will involve Superannuation contributions at the rate of 6 per cent. of salary.

Successful candidates will be required to undertake the design, layout, and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's division.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed foolscap envelope required). Canvassing disqualifies. (870) 1032

NORTHERN POLYTECHNIC, HOLLOWAY, N.7.

The Governing Body invite immediate applications for appointment to the full-time staff of the School of Architecture as STUDIO MASTER in Architectural Design and Construction. Applicants should be Associates or Fellows of the R.I.B.A., and should preferably have been trained in one of the Recognized Schools.

Some teaching experience will be an advantage, but it is not essential. Duties will commence as soon as an appointment is made. The salary will be in accordance with the Burnham (Technical) Scale. Members of the staff of the School are afforded reasonable opportunities for private practice, and the hours of teaching duties may be adjusted accordingly.

Forms of application, together with full particulars, will be forwarded on receipt of a stamped, addressed foolscap envelope.

R. H. CURRELL, Clerk. 713

CORPORATION OF DUBLIN. TEMPORARY SENIOR ASSISTANT QUANTITY SURVEYOR.

Applications are invited from qualified persons for the above-mentioned post. Salary scale, £12 to £14 per week. (Entry may be allowed at a point above the minimum, if experience and qualifications so warrant.)

Application forms and particulars as to duties, qualifications, etc., may be obtained from the Finance and General Purposes Section, City Hall, Dublin, where applications must be lodged not later than 12 noon on 28th May, 1948.

P. J. HERNON, City Manager and Town Clerk. City Hall, Dublin. 13th May, 1948. 832

CORPORATION OF LONDON.

APPOINTMENT OF ASSISTANT ARCHITECTS IN THE CITY SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of Assistant Architects, to be engaged exclusively in works of restoration, reconstruction, and extension of important City buildings.

(a) SENIOR ASSISTANTS. Consolidated salary, £600-£800 p.a., according to qualifications and experience.

(b) JUNIOR ASSISTANT. Consolidated salary, £400-£500 p.a., according to qualifications and experience.

Candidates for (a) should be Associates of the Royal Institute of British Architects, with extensive experience in the design and preparation of working drawings for large civic and commercial buildings and for the conducting of Contract works.

Candidates for (b) should preferably be Associates of the Royal Institute of British Architects, with a good general architectural experience and capable of preparing working drawings and specifications.

The appointments, whilst being for the temporary staff, may extend over a number of years, as the amount of work envisaged is very considerable.

The appointments are subject to provisions of the Corporation's Superannuation Scheme, and candidates will require to pass a medical examination. The appointments are subject to one month's notice on either side.

Applications, giving particulars of age, training, and experience, past and present appointments, and date when available to commence duties, if selected, to be made to George Holliday, F.R.I.C.S., City Surveyor, 55/61, Moorgate, E.C.2. 804

COUNTY BOROUGH OF DONCASTER EDUCATION COMMITTEE.

EDUCATION ARCHITECT'S DEPARTMENT.

APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited from men of suitable qualifications and experience for appointment as Assistant Architect. Preference will be given to candidates who are Associates of the Royal Institute of British Architects.

Salary in accordance with Grade A.P.T., V, of National Joint Council Scales (£530×£16×£15×£20-£570).

The post in the first instance will be temporary, but should the applicant prove suitable a permanent post of Senior Assistant Architect may be created.

Conditions of appointment obtainable from the undersigned on receipt of stamped addressed foolscap envelope. Applications should be endorsed "Assistant Architect," and received at this office by the 21st May, 1948.

V. H. HOSKIN.

Chief Education Officer. Education Office, Doncaster. April, 1948. 784

PETERLEE DEVELOPMENT CORPORATION.

A team of enthusiastic Architects is to be built up for immediate work on the design of Peterlee, the new miners' town in Co. Durham. Architects, with suitable qualifications and outlook, are needed to participate in the construction of the most modern town in the world. The following posts in the Architect's Department are to be filled:—

SENIOR ARCHITECTS. Salary, £1,000-£1,250 p.a.

Should have wide general experience in modern design, and knowledge of office organization and site supervision. They will be in charge of three different fields of work; organization and research, planning, and housing and public buildings.

ARCHITECTS. Salary, £750-£1,000 p.a. Must be experienced, capable of taking charge of small groups, each working on a specific problem.

ASSISTANT ARCHITECTS. Salary, £600-£750 p.a.

JUNIOR ASSISTANT ARCHITECTS. Salary, £300-£450 p.a.

Applications, giving full particulars of experience, should be addressed to the Chief Architect, B. Lubetkin, Peterlee Development Corporation, c/o Council Offices, Seaham, Co. Durham. 785

KENT COUNTY COUNCIL.

Applications are invited for four appointments of ASSISTANT ARCHITECTS, each at a salary in accordance with A.P.T. Division, Grade V(a) (£550-£610 a year).

The posts are superannuable, and successful candidates will be required to pass a medical examination.

Candidates must be Members of the Royal Institute of British Architects, by examination, have previous service with a Local Authority, be experienced in the design, construction and supervision of educational or other County buildings, and be fully competent to take charge of projects.

Applications, on forms obtainable from the County Architect, Springfield, Maidstone, should be delivered to him not later than the 31st May, 1948.

W. L. PLATTS,

Clerk of the County Council. County Hall, Maidstone. 22nd April, 1948. 771

CITY OF YORK.

Applications are invited for the permanent appointments of (a) ARCHITECTURAL ASSISTANT (Grade V, £520-£570 p.a.)—applicants must be A.R.I.B.A.; (b) ARCHITECTURAL ASSISTANT (Grade IV, £480-£525 p.a.)—preference given to members of the R.I.B.A. General experience in Municipal work desirable. Conditions of appointment, together with application form, can be obtained from undersigned. Applications, together with copies of three recent testimonials, must be delivered not later than 22nd May, 1948. Housing accommodation cannot be guaranteed.

CHAS. J. MINTER,

City Engineer and Architect. Guildhall, York. 829

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

Applications are invited for the following appointments:—

(1) SECOND ARCHITECTURAL ASSISTANT. Grade A.P.T., V, £520, rising by two annual increments of £15 and one of £20 to £570 per annum.

(2) JUNIOR PLANNING ASSISTANT. Grade A.P.T., I-II, £390, rising by five annual increments of £15 to £465 per annum.

Both appointments are subject to the Local Government Superannuation Acts and the Corporation's Staff Conditions of Service. The successful candidates will be required to pass a medical examination, and the appointments will be subject to one month's notice on either side.

For appointment (1) candidates must be Registered Architects, and preference will be given to those who are Associates of the Royal Institute of British Architects.

For appointment (2) candidates must be experienced surveyors, planning experience will be an advantage. The commencing salary for this appointment will be fixed with regard to the candidate's previous experience.

Applications, suitably endorsed, stating age, past and present appointments, with details of experience, together with copies of not more than three recent testimonials, to be delivered to the Borough Engineer, Town Hall, Barnsley, not later than Friday, 21st May, 1948.

Canvassing in any form will be deemed a disqualification.

A. E. GILFILLAN, Town Clerk.

Borough Engineer's Office, Town Hall, Barnsley. May, 1948. 828

DEVON COUNTY COUNCIL.

Applications are invited for the following appointments, on the permanent establishment of the County Architect's Department, at consolidated salaries, in accordance with the grades stated, of, and subject to, the Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional and Technical Services.

(a) ONE ASSISTANT ARCHITECT. A.P.T. Grade V. Commencing salary £520 p.a., rising by three annual increments (£15×£15×£20) to £570 p.a.

(b) TWO ASSISTANT ARCHITECTS. A.P.T. Grade III. Commencing salary £450 p.a., rising by three annual increments (£15×£15×£15) to £495 p.a.

(c) ONE ARCHITECTURAL ASSISTANT. A.P.T., Grade I. Commencing salary £390 p.a., rising by three annual increments (£15×£15×£15) to £435 p.a.

Candidates for (a) must be Associates of the Royal Institute of British Architects and possess a sound experience in the design and maintenance of all types of buildings carried out by a large Local Authority; they must be conversant with the Building Regulations of the 1944 Education Act and the Regulations for Police Buildings and Public Health Buildings; and possess organizing ability and experience in the management of building contracts.

For (b) candidates must also be qualified, but consideration will be given to those who are preparing for the Associateship Examination of the Royal Institute of British Architects. Good general experience is necessary in the preparation of drawings and specifications for all types of new buildings, adaptations, etc.

For (c) candidates should have a good training in architecture, and preference will be given to those who have passed the Intermediate examination of the Royal Institute of British Architects. Applications, stating age, qualifications and experience, accompanied by not more than three recent testimonials, should be sent to the County Architect, 97, Heavitree Road, Exeter, not later than Monday, the 7th June, 1948. No forms of application will be issued.

The attention of candidates is drawn to the fact that the County Council cannot at present assist successful candidates to obtain housing accommodation owing to the serious shortage of such in the district.

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

The successful candidates will be required to pass a medical examination.

H. A. DAVIS,

Clerk of the County Council. The Castle, Exeter. 3rd May, 1948. 823

GOVERNMENT OF THE UNITED PROVINCES, INDIA.

Applications are invited for an appointment as ARCHITECT with the above Government. Qualifications: Age not less than 40; F.R.I.B.A. or equivalent qualification; experience in the design of public buildings (e.g. hospitals) essential; knowledge or experience of Civil Engineering an advantage.

The appointee must be competent to occupy the Chair of Architecture at Roorkee University. Appointment on contract for five years. Pay scale, Rs.1,750—Rs.100—Rs.2,150 per month (approximately £1,575-£1,935 per annum). Initial pay according to experience and qualifications. Free passage. Provident Fund. Medical attendance.

Further particulars and forms of application, on request by postcard quoting No. 398 F, from the High Commissioner for India, General Department, India House, Aldwych, London, W.C.2. Last date for receipt of completed applications 26th June, 1948.

CITY AND COUNTY OF KINGSTON-UPON-HULL.

Applications are invited for the appointment of ASSISTANT ARCHITECT, A.P.T., Grade VI (£595-£660). The appointment is subject to the Local Government Superannuation Act, 1937, terminable by one month's written notice on either side and subject to the successful candidate passing satisfactorily a medical examination. Applicants should not be over 40 years of age (except in the case of applicants who are serving or have served in the Forces). Candidates should be Associates of the Royal Institute of British Architects, and thoroughly experienced in the design and layout of, and preparation of working drawings for, Municipal housing and/or schools. Application forms, obtainable from the undersigned, should be returned complete on or before 7th June, 1948.

ANDREW RANKINE, A.R.I.B.A.,
City Architect.
Kingston-upon-Hull.

NORTHERN POLYTECHNIC, HOLLOWAY, N.7.

The Governing Body invite immediate applications for appointment to the full-time staff of the School of Architecture as LECTURER on Mechanics, Theory of Structures, and Properties and Uses of Materials. Applicants should possess a professional qualification in Architecture or Civil Engineering. Some teaching experience will be an advantage, but it is not essential. Duties will commence on 1st September, 1948. Burnham (Technical) Scale salary.

Members of the staff of the School are afforded reasonable opportunities for private practice and research.

Forms of application, together with full particulars, will be forwarded on receipt of a stamped addressed foolscap envelope.

R. H. CURRELL,
Clerk.
714

SCOTTISH REGIONAL HOSPITAL BOARDS (EXCEPT WESTERN REGION).

Applications are invited for the post of CHIEF ARCHITECT, who will be appointed jointly by the South-Eastern, Eastern, North-Eastern and Northern Regional Hospital Boards of Scotland.

Applicants should be Fellows or Associates of the R.I.B.A., and should have had experience of architectural practice, office organization, and in the field. Special experience of hospital building is desirable, but not essential. The scope of the work will include the designing and supervising of new hospital buildings and extensions, maintenance of existing buildings, and collaboration with private architects who may be appointed for special projects.

The Chief Architect, whose headquarters will be in Edinburgh, will be responsible for the general supervision of work in the four hospital Regions. It is the intention that there will be, in addition, an architect in each Region appointed by the Regional Hospital Boards concerned.

Salary will be at the rate of £1,350, rising by £50 to £1,550 per annum.

Forms of application may be obtained from:—

Secretary,
South-Eastern Regional Hospital Board,
11, Drumsheugh Gardens,
Edinburgh, 3.

and should be returned so as to reach him by 16th June, 1948.

Canvassing in any form will disqualify.

METROPOLITAN BOROUGH OF POPLAR.

Appointment of:—

(a) CHIEF BUILDING SURVEYOR, A.P.T., VI.

(b) TOWN PLANNING ASSISTANT, A.P.T., V.

(c) ARCHITECTURAL ASSISTANT, A.P.T., V.

(d) ARCHITECTURAL ASSISTANT, Misc. I.

Applications are invited from suitably qualified persons for the above-mentioned appointments, on the permanent establishment of the Borough Engineer and Surveyor's Department.

Full details of the appointments and forms of application may be obtained from the Borough Engineer and Surveyor, Poplar Town Hall, E.3.

to whom completed applications must be delivered not later than first post on Monday, 24th May, 1948.

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MIDDLESEX COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT.

SIX PLANNING ASSISTANTS, A.P.T., IV and V combined (salary £500+6 annual increments—£590 p.a. inclusive), required on the central or area staffs of the department. Qualified by Final or Intermediate examination of T.P.I., R.I.B.A., R.I.C.S., or I.C.E., with experience in town planning. Duties include assisting in Planning Survey, Formulation of Proposals, Town Planning Design, Development Control and Administration. Knowledge of the County an advantage. Required to produce evidence of work at interview. Established and pensionable, subject to medical examination. Applications, with details age, experience, qualifications, etc., with copies of three recent testimonials, to the undersigned by 25th May (quoting E.229 AJ).

C. W. RADCLIFFE,
Clerk of the County Council.
Middlesex Guildhall, S.W.1. 851

DURHAM RURAL DISTRICT COUNCIL. APPOINTMENT OF ASSISTANT ARCHITECT (TEMPORARY).

Applications are invited for the Temporary appointment of an Assistant, in the Housing Architect's Department of the Council, from persons who have undergone a recognized period of training with a qualified Architect.

The salary will be in accordance with Grade I of the A.P.T. Division of the National Scale of Salaries, namely £390 per annum, rising by annual increments of £15 to £435 per annum.

The appointment will be terminable by one month's notice on either side, and subject to the provisions of the Local Government Superannuation Act, 1937, medical examination, and the National Scheme of Conditions of Service.

Canvassing, directly or indirectly, will be a disqualification, and applicants should state whether to their knowledge they are related to any member or senior official of the Council.

Forms of application are obtainable from the undersigned, and must be returned, with copies of not more than three recent testimonials, not later than the first post, Saturday, the 5th June, 1948.

S. G. LIGHTFOOT,
Clerk to the Council.
Council Offices, Byland Lodge,
Hawthorn Terrace, Durham. 857

WAR DEPARTMENT.

TWO ARCHITECTURAL DRAUGHTSMEN required urgently to assist a chartered architect on Staff of Chief Engineer, Middle East Land Forces, in the preparation of sketch plans, working drawings and details for permanent and temporary War Department accommodation, layouts of cantonments, etc. Applicants must have had good experience in an architect's office. Salary ranges between £300 and £525 per annum inclusive, the minimum thereof being related to age 21 years. Starting salary is fixed according to age, qualifications and experience of selected candidate, who will also be eligible for consideration for annual increases of £20 per annum within the range. Foreign Service allowance payable in addition, namely £295 per annum for married men unaccompanied by family or £170 per annum for single man. Neither salary nor foreign service allowance is subject to United Kingdom income tax. Free passage to and from Egypt provided and arranged by War Department. Free accommodation also provided. Appointment would be for one year in first instance, with probability of extension. Applications, stating age, and giving full particulars of architectural training and experience, together with two recent testimonials, to be addressed to: War Office (C 5), Metropole Buildings, Northumberland Avenue, W.C.2. 853

METROPOLITAN BOROUGH OF PADDINGTON.

HOUSING DEPARTMENT.

APPOINTMENT OF MALE CLERK.

Applications are invited for the appointment, on the permanent establishment of the Council, of a Male Clerk in the Architectural Section of the Housing Department.

The appointment is graded Miscellaneous Division, Grade II, and A.P.T. Division, Grade I, of the National Joint Council's Scheme of Conditions of Service, viz., £375 per annum, rising by annual increments of £15 to £435 per annum, plus London "weighting" as appropriate.

Candidates should be shorthand writers and have considerable experience, preferably in the office of a Municipal architect, engineer or surveyor, particularly associated with extensive housing and building works under contract and by direct labour; and be accustomed to the control of staff, employees' wages and conditions of service, purchase and control of stores, tenders, contracts, and local government procedure.

Forms of application and conditions of appointment can be obtained from me on receipt of a stamped, addressed, foolscap envelope.

Applications, accompanied by copies of three recent testimonials, must be received by me not later than Monday, 7th June, 1948.

Canvassing, either directly or indirectly, will disqualify.

W. H. BENTLEY,
Town Clerk.
Town Hall, Paddington, London, W.2.
13th May, 1948. 854

Applications are invited for the following appointments on the permanent staff:—

COUNTY OF LINCOLN—PARTS OF LINDSEY. COUNTY ARCHITECT'S DEPARTMENT.

PRINCIPAL ASSISTANT ARCHITECT.

Grade VIII, £685 per annum, rising by annual increments of £25 to £760.

CHIEF ASSISTANT ARCHITECT (EDUCATION).

Grade VII, £635 per annum, rising by £25 to £710.

Candidates must have passed the qualifying examination for A.R.I.B.A., and be proficient in design and have had experience in control of staff. Applicants must have a knowledge of Local Government Administration and Procedure and be able to drive a car, which must be provided by the person appointed and for which an allowance on the County Council's scale will be paid.

In the case of the Chief Assistant, preference will be given to candidates having had considerable experience in the design of modern schools.

Applications, stating age, training, experience and qualifications, together with copies of two recent testimonials, and the names of two persons to whom reference can be made, should be sent to A. R. Clark, A.R.I.B.A., A.M.T.P.I., County Architect, County Offices, Lincoln, not later than Monday, 24th May, 1948. 822

BOROUGH OF MARGATE. APPOINTMENT OF ASSISTANT ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant, at a salary in accordance with Grade A.P.T., II, of the National Scales, namely £420-£465 per annum. Applicants must have had good experience in Housing and General Architectural work, and should have passed the Intermediate examination of a recognized Architectural Institution or School.

Applications, giving full details of training, qualifications and experience, together with the names of two referees, and endorsed "Architectural Assistant," must reach the undersigned not later than first post on Wednesday, 26th May, 1948.

P. T. GROVE,
Town Clerk.
Town Clerk's Office 40 Grosvenor Place,
Margate, Kent. 860

BOROUGH OF GILLINGHAM. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant, at a salary in accordance with Grade I (Consolidated) £390-£435 per annum of the Administrative, Professional and Technical Division of the National Scale of Salaries. Applicants should have had good experience in architectural design of a general character, including housing. Forms of application and further particulars may be obtained from the Borough Engineer and Surveyor, Municipal Buildings, Gillingham. Applications, appropriately endorsed, must be received by the undersigned, accompanied by copies of not more than three recent testimonials, by not later than Saturday, 20th May, 1948. Canvassing, directly or indirectly, will disqualify.

J. C. NPLSON,
Town Clerk.
Municipal Buildings, Gillingham, Kent. 847

CAMBRIDGESHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) QUANTITY SURVEYOR (Temporary). Grade VII, A.P.T. Division. Consolidated salary, £635-£710.

(b) ASSISTANT ARCHITECT (Temporary). Grade VI, A.P.T., Division. Consolidated salary, £595-£660.

(c) ENGINEERING ASSISTANT (Temporary). Grade VI, A.P.T. Division. Consolidated salary, £595-£660.

Candidates for (a) should have passed at least the Intermediate examination of the Royal Institute of Chartered Surveyors (Quantities Sub-Division), and be capable of writing specifications, preparing detailed estimates, taking-off quantities, abstracting and billing, and checking and agreeing final accounts.

Candidates for (b) should be fully qualified Architects and Members of the Royal Institute of British Architects, and have had experience in design and construction of all types of public buildings.

Candidates for (c) should be fully qualified Heating, Ventilating and Electrical Engineers, and have had experience in the preparation of schemes, including writing specifications and preparing estimates of costs.

Applications, stating age, qualifications and experience, accompanied by one recent testimonial, and the names and addresses of two referees, should be sent to the Clerk of the County Council, Shire Hall, Cambridge, not later than Thursday, the 27th May, 1948.

The appointments to be subject to one month's notice on either side, and the selected candidates will be required to pass a medical examination.

CHARLES PRYTHIAN,
Clerk of the County Council.
Shire Hall, Cambridge. 818

**BOROUGH OF COLCHESTER.
TEMPORARY ARCHITECTURAL ASSISTANT.
TEMPORARY ASSISTANT QUANTITY
SURVEYOR.**

Applications are invited for the following temporary appointments, in the Borough Engineer's Department:—

(a) Temporary Architectural Assistant, at a salary in accordance with A.P.T., Grade V (£520 to £570 per annum).

(b) Temporary Assistant Quantity Surveyor, at a salary in accordance with A.P.T., Grade I (£390 to £435 per annum).

In the case of (a) candidates must have passed the Final examination of the Royal Institute of British Architects or hold an equivalent qualification, and preferably have had experience in housing work undertaken by a Local Authority.

In the case of (b) candidates must have passed the Intermediate examination of the Royal Institution of Chartered Surveyors, Quantities Sub-Division, or hold an equivalent qualification, and be prepared in addition to quantity surveying to assist generally in the work of the Architectural Section.

The appointments are subject to one month's notice on either side.

Applications, stating age, qualifications and experience, accompanied by copies of not more than two recent testimonials, must be delivered to the Borough Engineer at the address given below, not later than 22nd May, 1948, endorsed "Temporary Architectural Assistant" or "Temporary Assistant Quantity Surveyor," as the case may be.

Canvassing will disqualify, and applicants must state whether they are related to any member or senior officer of the Council.

N. CATCHPOLE, Town Clerk.

Town Hall, Colchester.
8th May, 1948.

819

THE EAST MIDLANDS ELECTRICITY BOARD.

**NORTHAMPTONSHIRE SUB-AREA NO. 4.
ARCHITECTURAL DRAUGHTSMAN AND
GENERAL ASSISTANT (Permanent)** required, to prepare working drawings and details under supervision, and assist with Quantities, Specifications, and Estimates for Showrooms, Offices, Sub-stations and Workshops. Commencing salary about £550 a year. Applications, addressed to the Sub-Area Manager, to reach here not later than first post on Monday, 31st May.
25, Bridge Street, Northampton. 850

**BOROUGH OF BEXLEY.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.
ARCHITECTS' SECTION.**

Applications are invited for the under-mentioned appointments:—

(1) CHIEF ARCHITECT (Permanent). Salary Grade, A.P.T., VIII, of the National Scales of Salaries, £685-£725-£760, plus London weighting.

(2) QUANTITY SURVEYOR (Temporary). Salary grade, A.P.T., V, of the National Scales of Salaries, £520-£515-£510-£505-£500, plus London weighting.

Forms of application, with conditions of appointment, may be obtained from the Borough Engineer and Surveyor, Council Offices, Bexleyheath, to whom completed applications must be returned by 31st May, 1948. Canvassing, directly or indirectly, will disqualify.

W. WOODWARD, Town Clerk.

Council Offices, Bexleyheath, Kent. 843

**COUNTY BOROUGH OF DERBY.
BOROUGH ARCHITECT'S DEPARTMENT.**

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

(a) ONE ASSISTANT ARCHITECT. Grade VI, A.P. & T. Division. Salary £595-£650 (consolidated).

Applicants should be Associate R.I.B.A., with a good knowledge of work undertaken by a Local Authority, and preferably with experience in housing.

(b) ONE ASSISTANT ARCHITECT. Grade IV, A.P. & T. Division. Salary £480-£525 (consolidated).

Applicants should have passed the Intermediate examination of the R.I.B.A., and have had good architectural experience.

(c) TWO SENIOR QUANTITY SURVEYORS. Grade VI, A.P. & T. Division. Salary £595-£660 (consolidated).

Applicants should be Chartered Quantity Surveyors or prospective, and have had experience in the preparation of quantities, specifications, site measuring, estimates and final accounts.

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

Forms of application may be obtained from Thos. W. East, F.R.I.B.A., Borough Architect, The Council House, Corporation Street, Derby, and should be returned when completed, together with copies of three testimonials, to arrive not later than Tuesday, 26th May, 1948.

Canvassing, directly or indirectly, will be a disqualification.

C. ASHTON, Town Clerk.

Market Place, Derby.

817

**CITY OF BIRMINGHAM EDUCATION COMMITTEE.
BIRMINGHAM CENTRAL TECHNICAL
COLLEGE, SUFFOLK STREET, BIR-
MINGHAM, 1.**

Principal: J. Winsor, B.Sc., B.Com., M.I.Mech.E.

**DEPARTMENT OF BUILDING AND
STRUCTURAL ENGINEERING.**

Applications are invited for the following full-time appointments:—

(1) TWO ASSISTANT LECTURERS of Building Construction and associated subjects. Applicants should possess one of the following qualifications:—(a) A.R.I.B.A., (b) L.I.O.B., (c) M.I.Struct.E., (d) Higher National Certificate in Building.

(2) ONE ASSISTANT LECTURER of Building Science. Applicants should be prepared to teach Mechanics, Physics and Chemistry, as applied to Building, to Ordinary National Certificate standard.

(3) ONE ASSISTANT LECTURER of Plumbing and Sanitary Engineering. Applicants should possess the Full Technological Certificate in Plumbing awarded by the City and Guilds of London Institute.

Salary will be in accordance with the Burnham Technical Scale. Basic scale £300-£15-£555. Additions to the scale may be given for academic or professional qualifications and training, and the commencing salary will depend upon professional or industrial experience.

The persons appointed will be required to take up duty on the 1st September, 1948.

Conditions of appointment and form of application may be obtained from the Principal of the College on receipt of stamped addressed foolscap envelope. The last day for receipt of applications is two weeks after the appearance of this advertisement.

E. L. RUSSELL, Chief Education Officer. 863

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

Applications are invited for the following appointment on the permanent staff:—

SENIOR ARCHITECT (Health Branch). Salary £810-£850-£910 per annum.

Candidates should be members of the Royal Institute of British Architects, and have had experience in administration and the planning and design of buildings for Health Committee purposes.

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

Applications should be made on the forms to be obtained from G. Noel Hill, Esq., F.R.I.B.A., M.T.P.I., County Architect, County Offices, Preston, to whom they should be returned, accompanied by copies of three recent testimonials, to arrive not later than Monday, 31st May, 1948.

R. H. ADCOCK, Clerk of the County Council.

County Offices, Preston. 862

COUNTY BOROUGH OF WEST HAM.

Applications are invited for TWO ARCHITECTURAL ASSISTANTS, Grade II (£420-£465, plus £20 L.A.).

Full particulars of duties, terms of appointment, and application form (which must be used), may be obtained from Borough Architect and Planning Officer, 100, West Ham Lane, Stratford, E.15, to be returned by 28th May, 1948. 861

CROWN AGENTS FOR THE COLONIES.

Applications from qualified candidates are invited for the following post:—

DRAUGHTSMAN (Architectural) required by Nigerian Government Railway for 18 to 24 months, with prospect of permanency. Commencing salary according to experience, in scale £600-£700, including expatriation pay. Outfit allowance £60. Free passages. Candidates should be experienced in the preparation of sketch plans, working drawings and details, and in the preparation of bills of quantities and specifications, for general industrial work and housing. Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper, to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/17418/3D on both letter and envelope. 845

CROWN AGENTS FOR THE COLONIES.

Applications from qualified candidates are invited for the following post:—

CIVIL ENGINEERING DRAUGHTSMAN required by Department of Comptroller of Development and Welfare, West Indies, for three years in first instance. Salary and foreign service allowance up to £975 a year. Free passages. Candidates should have had considerable experience in a large drawing office covering reinforced concrete design, waterworks practice, and hydraulic structures. Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper, to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/23891/3D on both letter and envelope. 859

**STAFFORDSHIRE COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.**

APPOINTMENT OF PLANNING ASSISTANTS. Applications are invited for the under-mentioned appointments in the County Planning Department. The persons appointed will be mainly engaged on the preparation of outline and development plans and in reporting on proposals for development. They will be stationed at Stafford or at one of the Area Offices established at Newcastle-under-Lyme and Lichfield.

Planning Assistants, A.P.T., Grade IV. Salary £480-£515 to £525 p.a.

Planning Assistants, A.P.T., Grade III. Salary £450-£515 to £495 p.a.

Applicants should have had training in an Architect's, Engineer's, Surveyor's or Planning Office, and should preferably have passed the Intermediate examination of the Town Planning Institute or its equivalent.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937; the National Joint Council's Scheme of Conditions of Service as adopted by the County Council; the passing of a medical examination; and to one month's notice on either side.

Canvassing, directly or indirectly, will be deemed a disqualification, and relationship to any Member or Senior Officer of the County Council must be disclosed.

Applications should give details of age, education, technical training, qualifications, present and previous appointments and experience, and should include copies of two recent testimonials and the names of two other persons to whom reference can be made. They should be addressed to the County Planning Officer, County Buildings, Stafford, to be received not later than Monday, the 31st May, 1948.

T. H. EVANS, Clerk of the County Council.

County Buildings, Stafford. 856

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

ASSISTANT ARCHITECTS required. A.P.T. VI (£615-£690 p.a. incl.). Established and pensionable subject to medical examination. Application forms (stamped addressed foolscap envelope) from the County Architect, 20, Vauxhall Bridge Road, S.W.1, to be returned by 24th May (quoting E.206 A.J.).

C. W. RADCLIFFE, Clerk of the County Council.

Middlesex Guildhall, S.W.1. 862

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

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT, at a salary in accordance with Grade II of the National Scales (£420, rising to £465 per annum).

Candidates should have passed the Intermediate examination of the Royal Institute of British Architects or the Royal Institution of Chartered Surveyors, and some experience of educational buildings would be an advantage.

Conditions of service are those formulated by the National Joint Council, and the appointment is on the established staff and subject to the provisions of the Local Government Superannuation Act, 1937. The successful applicant will be required to pass a medical examination.

Forms of application may be obtained from the Borough Engineer and Surveyor, Town Hall, Burnley, to whom applications should be returned in the envelope provided not later than noon on Friday, the 4th June, 1948.

C. V. THORNLEY, Town Clerk.

Town Hall, Burnley. 858

**COUNTY BOROUGH OF BELFAST.
CITY ENGINEER AND SURVEYOR'S
DEPARTMENT.**

Applications are invited for the appointment of a QUANTITY SURVEYOR. Salary £450-£225-£650 per annum, plus cost-of-living bonus (at present £90 per annum).

Candidates must be Professional Associates of the Royal Institute of Chartered Surveyors. The commencing salary within the above-mentioned scale will be determined in the light of the qualifications and experience of the successful candidate.

Candidates must not be over 45 years of age on the date of taking up the appointment.

The person appointed will be subject to the Conditions prescribed in the Council's Grading Scheme for Officers.

Preference will be given to suitably qualified ex-Service candidates.

The person appointed will be required to reside in the city.

Forms of application and copies of the above-mentioned Conditions may be obtained on application to the City Surveyor, Room 39, City Hall, Belfast.

Applications, accompanied by copies of three recent testimonials, should be lodged with the undersigned not later than 4 p.m. on Friday, 4th June, 1948.

Canvassing in any form, oral or written, direct or indirect, will disqualify a candidate for appointment.

JOHN DUNLOP, Town Clerk.

City Hall, Belfast. 856

BOROUGH OF EDMONTON. ENGINEERING ASSISTANT (MAIN DRAINAGE).

The Council require an Engineering Assistant, with special experience in the preparation of large schemes of Main Drainage. The appointment may be for 4 or 5 years, subject to satisfactory service.

The salary is fixed at £610 per annum, and the minimum qualification is Associate Member of the Institution of Civil Engineers or Institution of Municipal Engineers.

Further particulars, forms of application and conditions of service from the undersigned, to whom completed applications should be returned as quickly as possible.

H. BACKHOUSE,

Town Clerk.

Town Hall, Edmonton, N.9.

28th April, 1948.

791

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

Appointment of:—

(a) MAINTENANCE SURVEYOR.

(b) HOUSING MAINTENANCE SUPER-INTENDENT.

Applications are invited for the following appointments on the permanent staff of the Department:—

(a) Maintenance Surveyor. A.P.T. Division, Grade VII, £635-£710, plus a fixed car allowance of £96 per annum.

(b) Housing Maintenance Superintendent. A.P.T. Division, Grade III, £450-£495.

Appointment (a). Candidates for this appointment must have had considerable experience of building surveying and the administrative duties connected with large building and maintenance works. They must also be experienced in the preparation of specifications, bills of quantities, estimating and the costing of direct labour building works.

The successful candidates will be responsible for the administration of the Department's building maintenance organization for public buildings and houses, and will have under him both a Works Superintendent and a Housing Maintenance Superintendent to control the outside work.

Appointment (b). Candidates for this appointment must have had considerable experience of building work, with special reference to housing maintenance. The person appointed will be responsible for the direct supervision and execution of all housing maintenance work.

The appointments are subject to the Conditions of Service and the Salary Scale of the National Joint Council and to the provisions of the Local

Government Superannuation Act, 1937. The successful candidates will be required to pass a medical examination. The appointments will be subject to one month's notice on either side.

Applications (clearly marked appointment "A" or "B"), stating age, experience, qualifications, war service (if any), together with the names of three persons to whom reference may be made, should be submitted to D. J. Howe, Esq., M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, 26/30, King's Road, Brighton, not later than Saturday, 29th May, 1948.

J. G. DREW,

Town Clerk.

Town Hall, Brighton.

27th April, 1948.

807

NORTHUMBERLAND COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT.

Applications are invited from persons with suitable qualifications for the following appointments:—

(a) ASSISTANT COUNTY PLANNING OFFICER, at a salary in accordance with Grade VIII (A.P.T.) of the National Joint Council's Scale of Salaries (£685-£760 a year); (b) ONE SENIOR PLANNING ASSISTANT, at a salary in accordance with Grade VI (£595-£660); (c) TWO PLANNING ASSISTANTS, at salaries in accordance with Grade III (£450-£495); (d) ONE JUNIOR PLANNING ASSISTANT, at a salary in accordance with Grade I (£390-£435).

Candidates for appointments (a) and (b) should be members of the Royal Institute of British Architects, the Royal Institute of Chartered Surveyors, or the Institute of Civil Engineers, and should preferably be Corporate Members of the Town Planning Institute and possess recent practical experience in the preparation and administration of planning schemes and in the control of development. The appointment of Assistant County Planning Officer carries a prospect of promotion to the vacant position of Deputy County Planning Officer.

The appointments (which are whole-time ones) will be subject to the National Scheme of Conditions of Service, to the provisions of the Local Government Superannuation Act, 1937, and to three months' notice on either side, and each of the successful candidates will be required to pass a medical examination to the Council's satisfaction.

Applications, on forms to be obtained from the undersigned, must be submitted not later than the 5th June, 1948.

E. P. HARVEY,

Clerk of the County Council.

County Hall, Newcastle-upon-Tyne, 1.

836

BOROUGH OF MANSFIELD. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of JUNIOR ARCHITECTURAL ASSISTANT, in the General Division (£180-£385), at a commencing salary according to qualifications and experience.

This appointment is subject to the following:—
(a) The Scheme of Conditions of Service of the National Joint Council.

(b) The Local Government Superannuation Act, 1937.

(c) Medical examination.

(d) One month's notice on either side.

(e) Residence within the Borough.

Applicants should have received a regular training in Architecture.

Applications, stating age, training qualifications, present appointment, salary and experience, should be delivered to the undersigned not later than Monday, the 24th May, 1948, endorsed "Junior Architectural Assistant."

Canvassing, directly or indirectly, will disqualify.

A. C. SHEPHERD,

Town Clerk.

Carr Bank, Mansfield.

30th April, 1948.

841

BOROUGH OF CROSBY. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT (Temporary) in the Department of the Borough Engineer and Surveyor, at a salary of £450, rising to £495 per annum. Candidates should possess a recognized architectural qualification and have had experience in general architectural work, housing, and the conversion of large houses into flats, including the preparation of working drawings and specifications.

The appointment will be subject to one month's notice on either side.

Applications, stating age, present and past appointments, qualifications and experience, together with copies of two recent testimonials, must be delivered to the undersigned endorsed "Architectural Assistant," not later than Monday, 24th May, 1948.

Canvassing in any form will be a disqualification.

HAROLD O. ROBERTS,

Town Clerk.

Town Hall, Waterloo, Liverpool, 22.

4th May, 1948.

834

COMPLETE Insulation and Waterproofing

by using "ACE" reinforced
felt with "SLAGBESTOS"
mineral wool.

In these days of fuel shortage it is more than ever necessary to conserve as much heat as possible. The ideal method for houses is to underlay the tiles with "ACE" Reinforced Felt and to spread loose SLAGBESTOS between the ceiling joists. This will give you perfect roof insulation and a warm dry house.

SLAGBESTOS is completely fireproof, verminproof and does not disintegrate.

We are exhibiting at the Building Centre.

Slagbestos

PERFECTED MINERAL WOOL

AND "ACE" REINFORCED
BITUMINOUS ROOFING FELT



Illustration shows loose SLAGBESTOS between ceiling joists, and inset in blanket form. Full particulars, samples and prices of SLAGBESTOS and "ACE" will be sent to you on request.

F. McNEILL & CO. LTD.

10, LOWER GROSVENOR PLACE, LONDON, S.W.1

'Phone: VICTORIA 6022. 'Grams: "Eyeball," London

Factories: London, Manchester and Glasgow

**COUNTY BOROUGH OF IPSWICH.
APPOINTMENT OF A SENIOR ARCHITECTURAL ASSISTANT.**

Applications are invited for the appointment of a Senior Architectural Assistant, in the Borough Surveyor's Department. Applicants must have had previous architectural experience, and be Associates of the R.I.B.A. or possess a similar qualification.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and to the passing of a medical examination. Salary will be in accordance with Grade V of the A.P.T. Division of the National Scales (£520 to £570).

There is no form of application, but candidates must state age, experience, qualifications, and any other relevant details. Copies of not more than three recent testimonials must be supplied. Applications must be received by the Borough Surveyor, Town Hall, Ipswich, not later than Monday, 24th May, 1948.

Canvassing will disqualify. If the applicant is to his knowledge related to any member or any senior officer of the Council he must disclose that fact in writing when submitting his application.

J. G. BARR,
Town Clerk.

Town Hall, Ipswich.
4th May, 1948. 833

CITY OF SALFORD.

Applications are invited for the appointment of TWO ARCHITECTURAL ASSISTANTS, in the City Engineer's Department. Salary in accordance with Grade III, A.P.T. Division, of the National Scale of Salaries, £450, rising by annual increments of £15 to a maximum of £495.

Preference will be given to applicants who have passed the Intermediate examination of the R.I.B.A. and have had experience in general architectural work and be able to prepare working drawings.

The appointments will be subject to (1) the provisions of the Local Government Superannuation Act, 1937; (2) the National Joint Council Scheme of Conditions of Service as adopted by the Council; and (3) the passing of a medical examination.

Applications, giving details of age, training and experience, together with copies of two recent testimonials, and endorsed "Architectural Assistant," to be addressed to the City Engineer, Town Hall, Salford, 3, and forwarded so as to be received not later than June 7th, 1948.

Applicants must disclose in writing whether they are related to any member of the Council or an officer of the Authority. Deliberate omission to make such a disclosure will disqualify and, if discovered after appointment, liability to dismissal will ensue. Canvassing, either directly or indirectly, will disqualify.

H. H. TOMSON, Town Clerk. 801

**LONDON COUNTY COUNCIL.
VACANCIES FOR ARCHITECTURAL STAFF
IN THE ARCHITECT'S DEPARTMENT.**

Applications are invited for the following positions:—
ARCHITECTS. Grade III, £250—£255—£270 a year.

TECHNICAL ASSISTANTS. Section (a), £440—£20—£580.

Commencing rates will be according to qualifications and experience.

Candidates for Grade III positions should possess professional qualifications, equivalent to Associate Membership of the Royal Institute of British Architects.

Successful candidates are required to contribute to the Council's Superannuation and Provident Fund, and will be eligible for selection by merit for permanent appointment and promotion.

Apply to the Architect (A), County Hall, Westminster Bridge, London, S.E.1, enclosing stamped addressed foolscap envelope (743). 823

Architectural Appointments Vacant

4 lines or under, 5s.; each additional line, 1s. 6d.

SENIOR ASSISTANT required to take charge of office of Central London Architect; experience in building surveys, specifications, reports, draughtsmanship, etc.; possibility of partnership; state age, experience, salary.—Box 680.

NORTHERN RHODESIA.—Qualified ARCHITECTS and ARCHITECTURAL DRAUGHTSMEN required by a prosperous firm of Architects in Northern Rhodesia. Salaries range from £600 to £840 per annum, according to ability, qualifications and experience, with possibility of an interest in the business if placed in charge of Branch Office. Applications should give full details of training and experience, age, marital state. Conditions in Northern Rhodesia can be obtained from Major H. K. McKee, Northern Rhodesia Representative, Palace Chambers, Bridge Street, Westminster, London. Replies to be sent by Air Mail to Lallemand & Williams, Chartered Architects, P.O. Box 105, Kitwe, Northern Rhodesia. 760

ASSISTANT required; capable draughtsman, working drawings, details, specifications, schedules and surveys. Apply Clark, 44, Great Russell Street, W.C.1. Phone: MUS. 440 & 0500. 757

ARCHITECTURAL ASSISTANT required; R.I.B.A. Intermediate standard; good draughtsman. Apply, stating age, experience, and salary required, to Farmer & Dark, Chartered Architects, Terminal House, Grosvenor Gardens, London, S.W.1. 794

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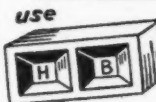
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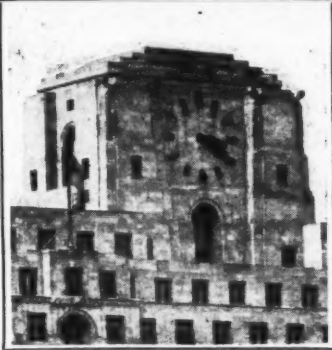
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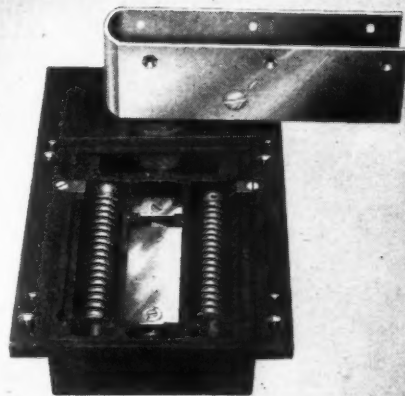
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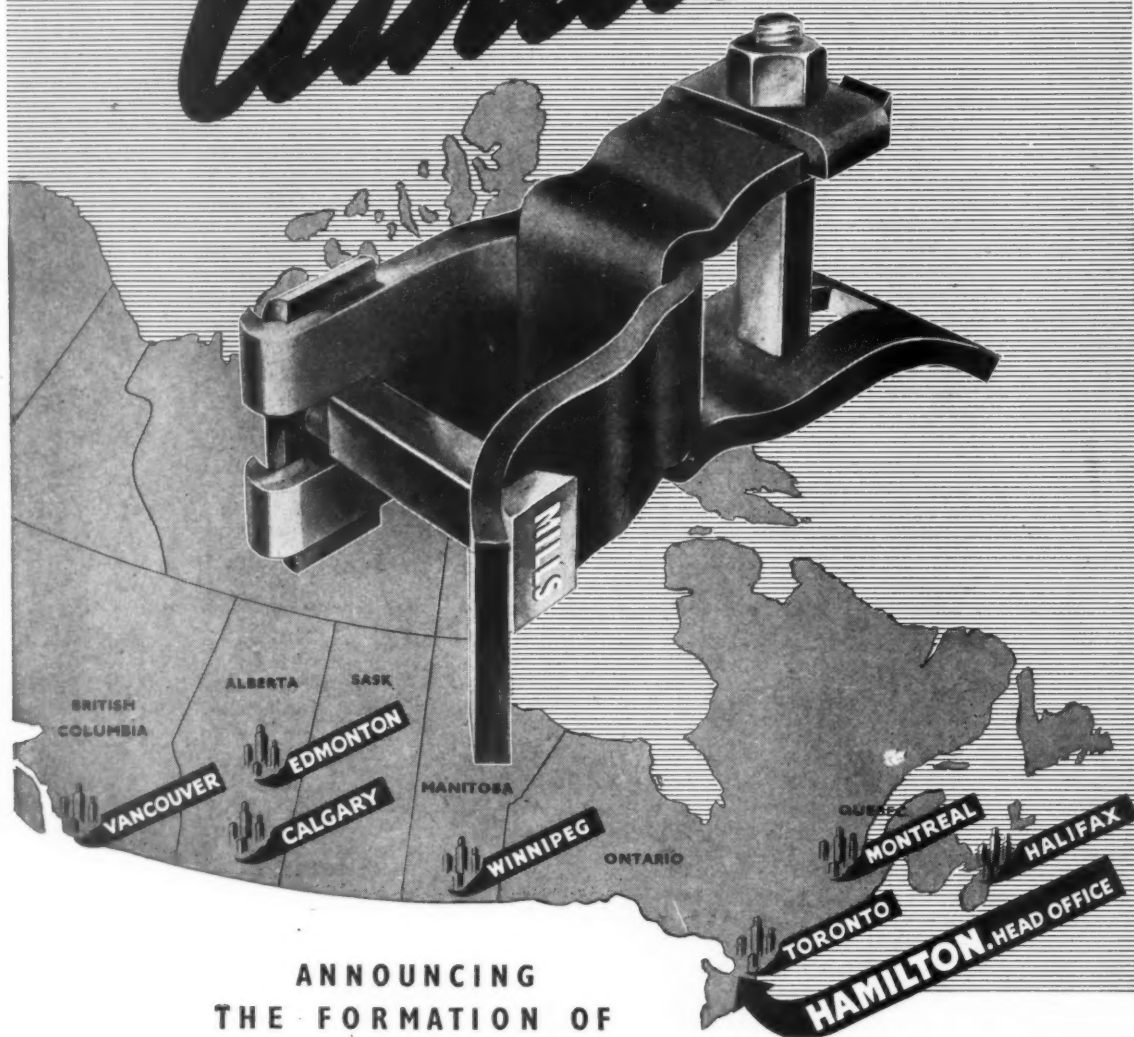
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