

THE ARCHITECTS' JOURNAL



standard contents

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

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

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. 43, George Street, Croydon	Croydon 5452
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	Building Societies Association. 14, Park Street, W.1.	Mayfair 0515
BSI	British Standards Institution. 28, Victoria Street, S.W.1.	Abbey 3333
BTE	Building Trades Exhibition. 4, Vernon Place, W.C.1.	Holborn 8146/7
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.1.	Sloane 4280
CUJC	Coal Utilization Joint Council. 13, Grosvenor Gardens, London, S.W.1.	Victoria 1534
DIA	Design and Industries Association. 13, Suffolk Street, S.W.1.	Whitehall 0540
DOT	Department of Overseas Trade. 35, 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
FB 1951	Festival of Britain 1951. 2, Savoy Court, Strand, W.C.2.	Temple Bar 1951
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	The Flush Door Manufacturers Association Ltd. Trowell, Nottingham.	Ilkeston 623
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

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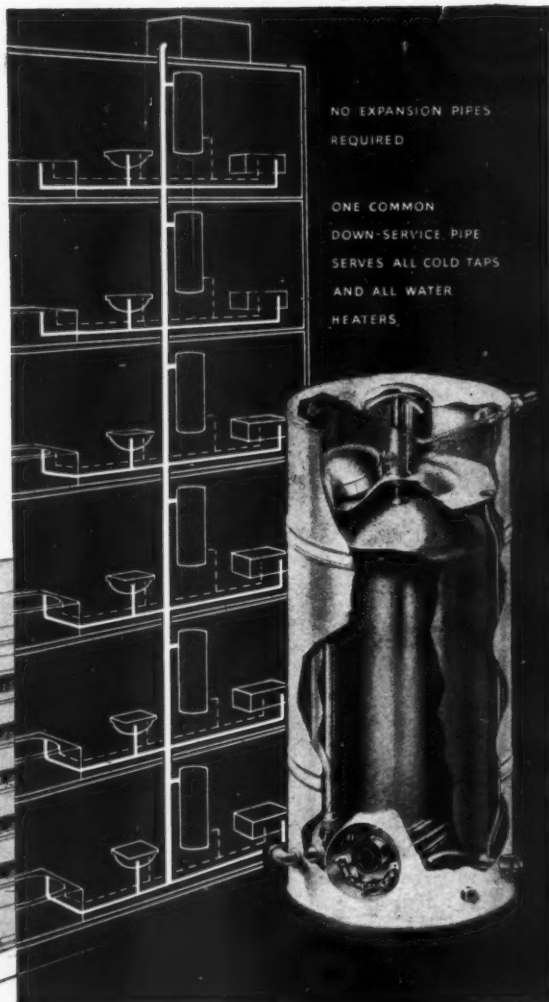
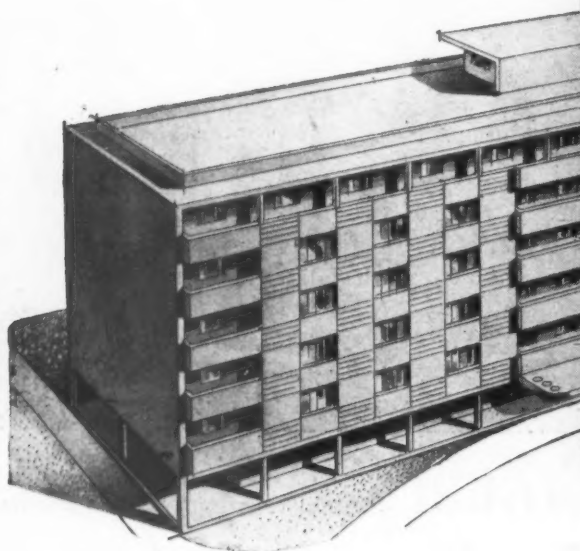
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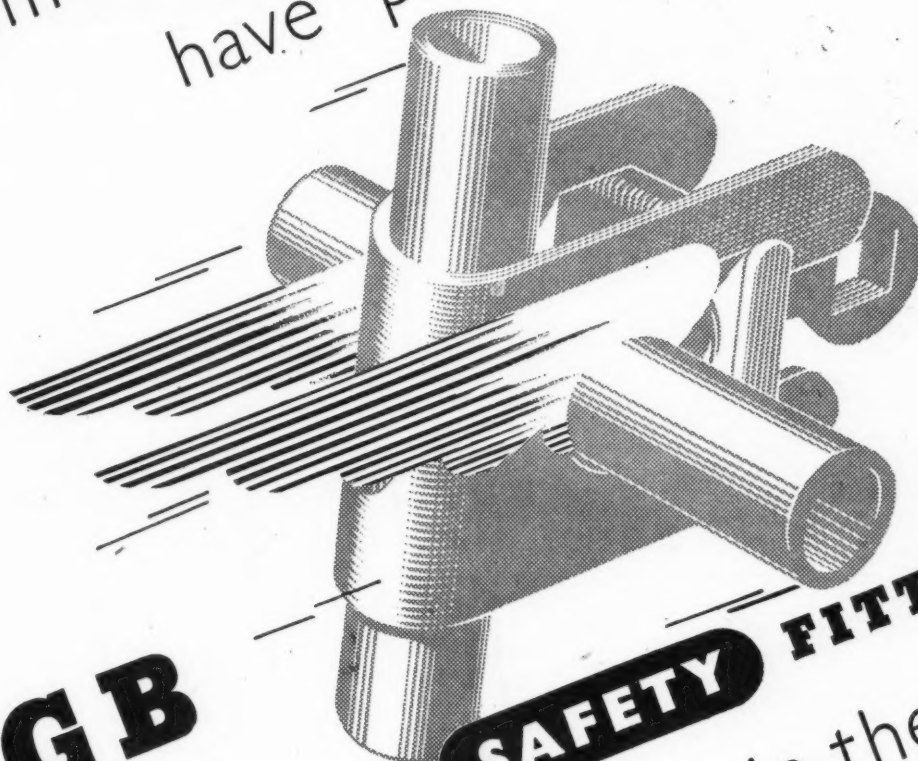
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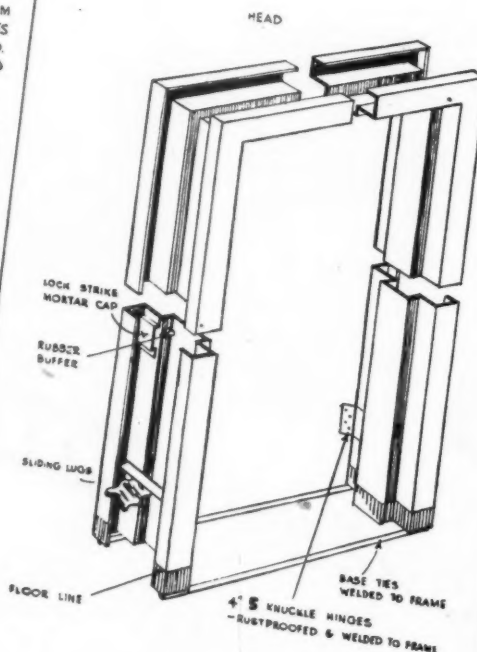
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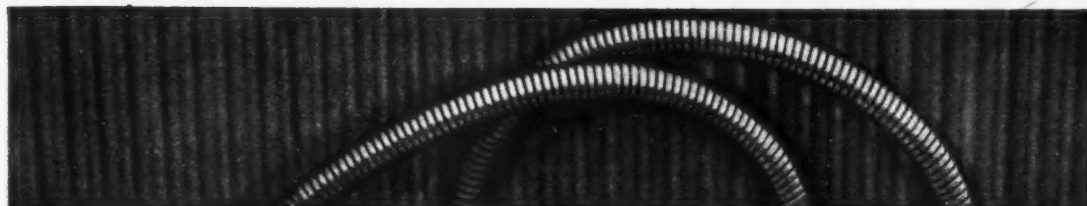
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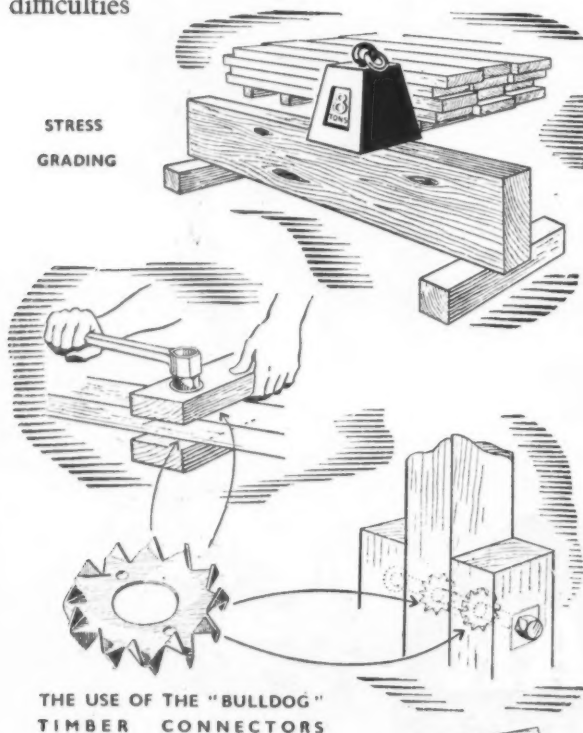
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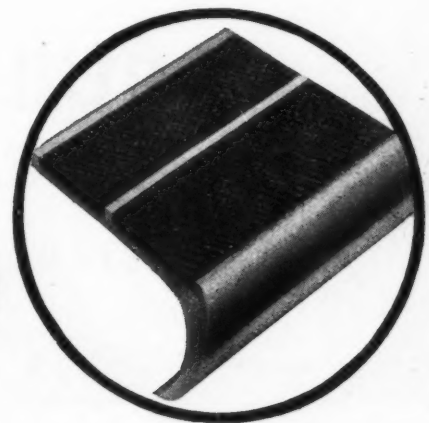
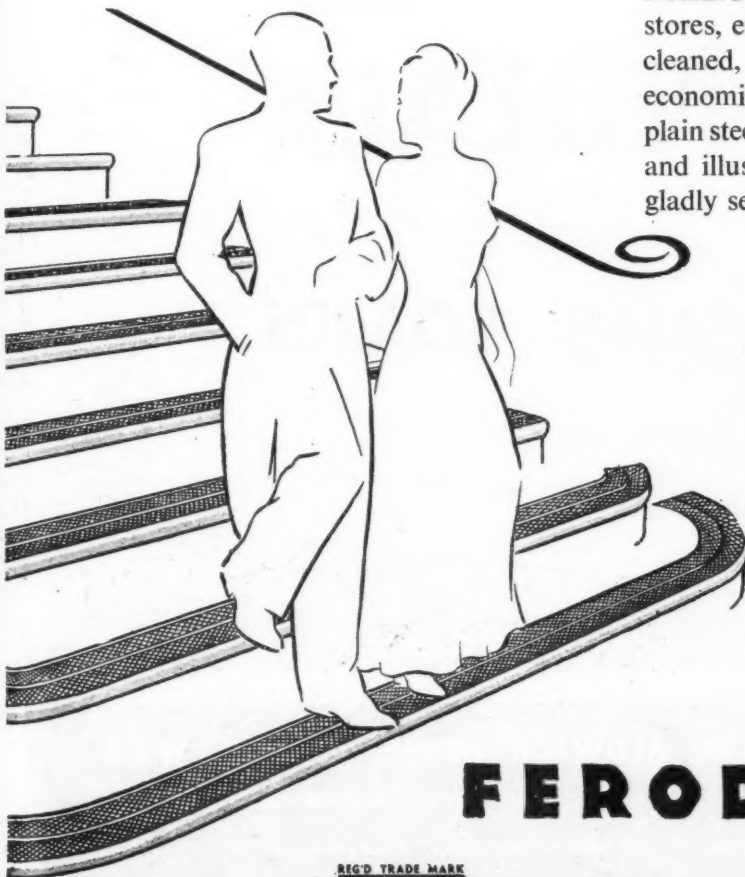
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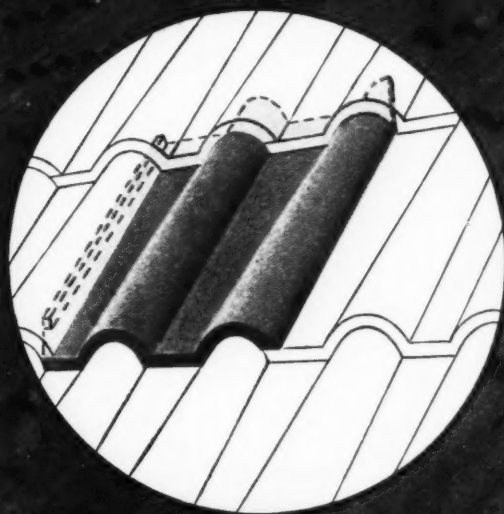
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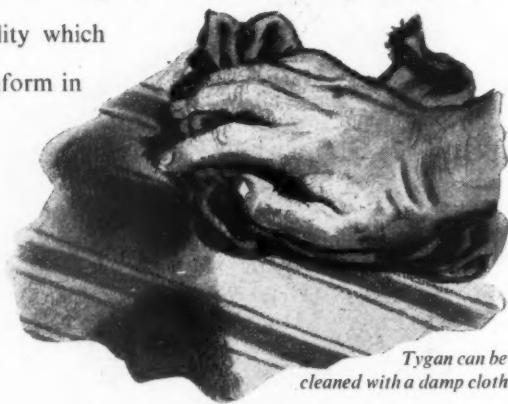
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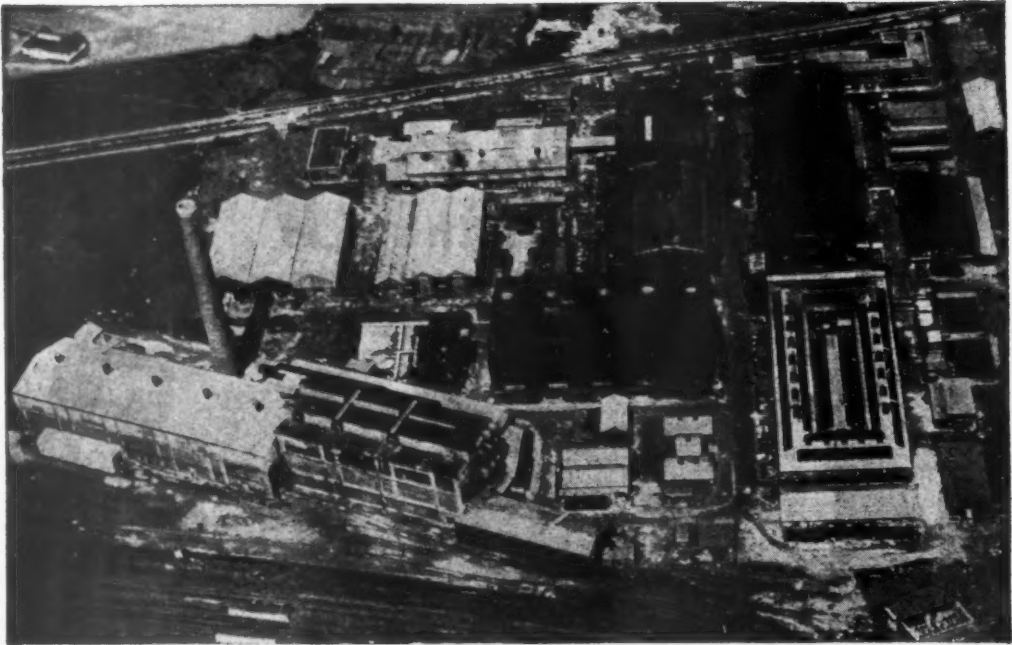
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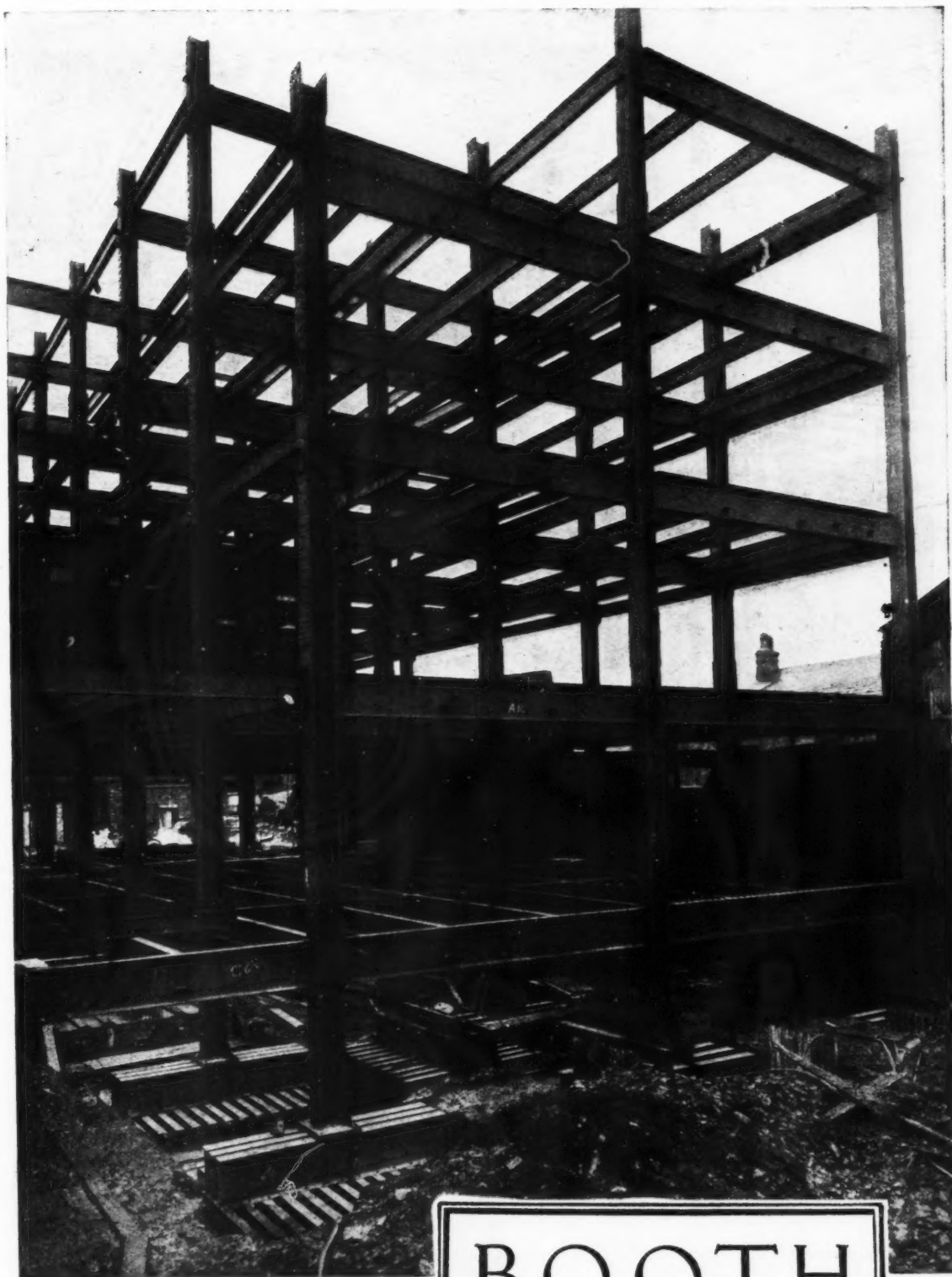
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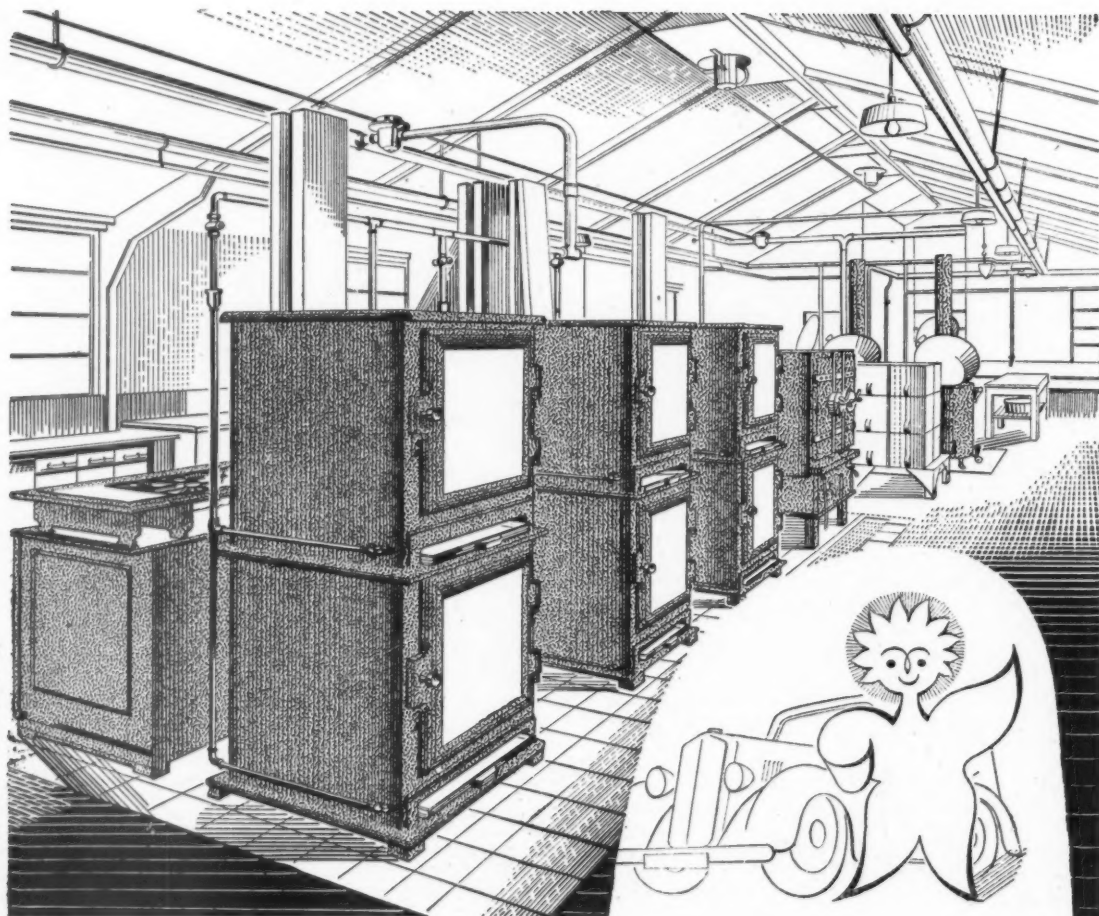
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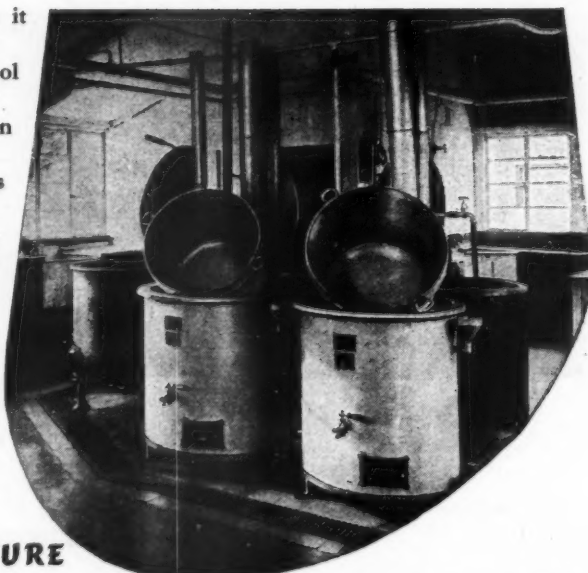
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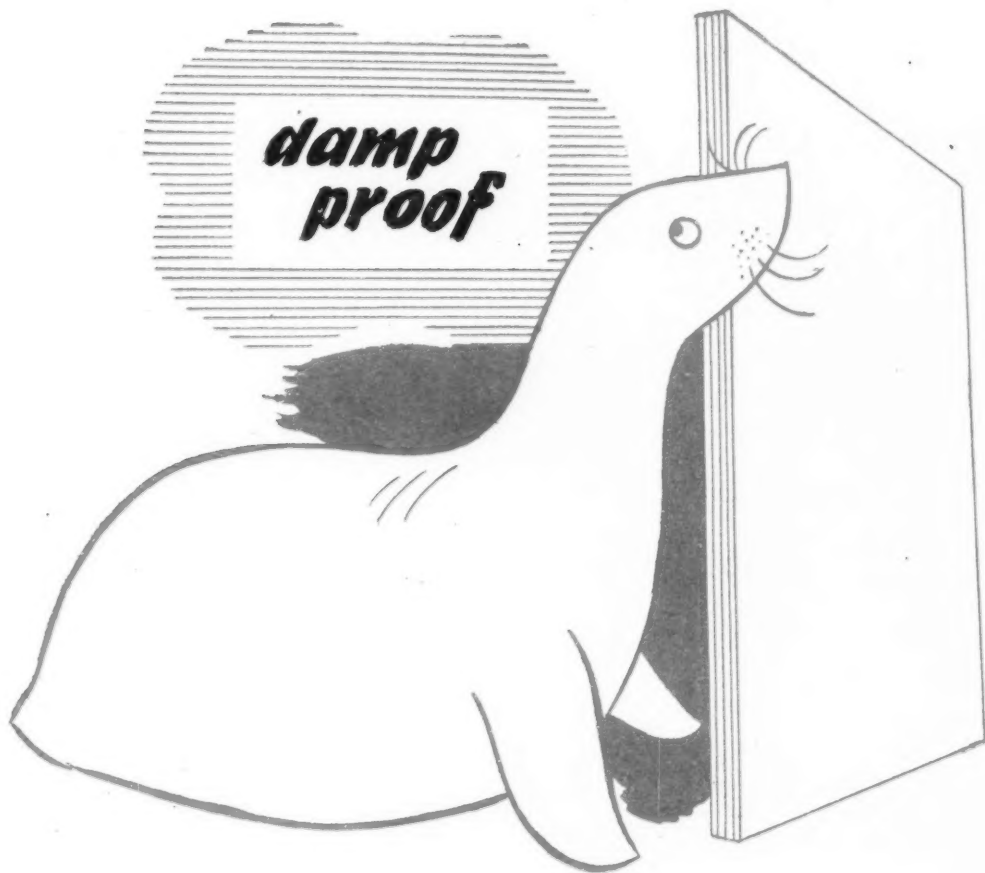


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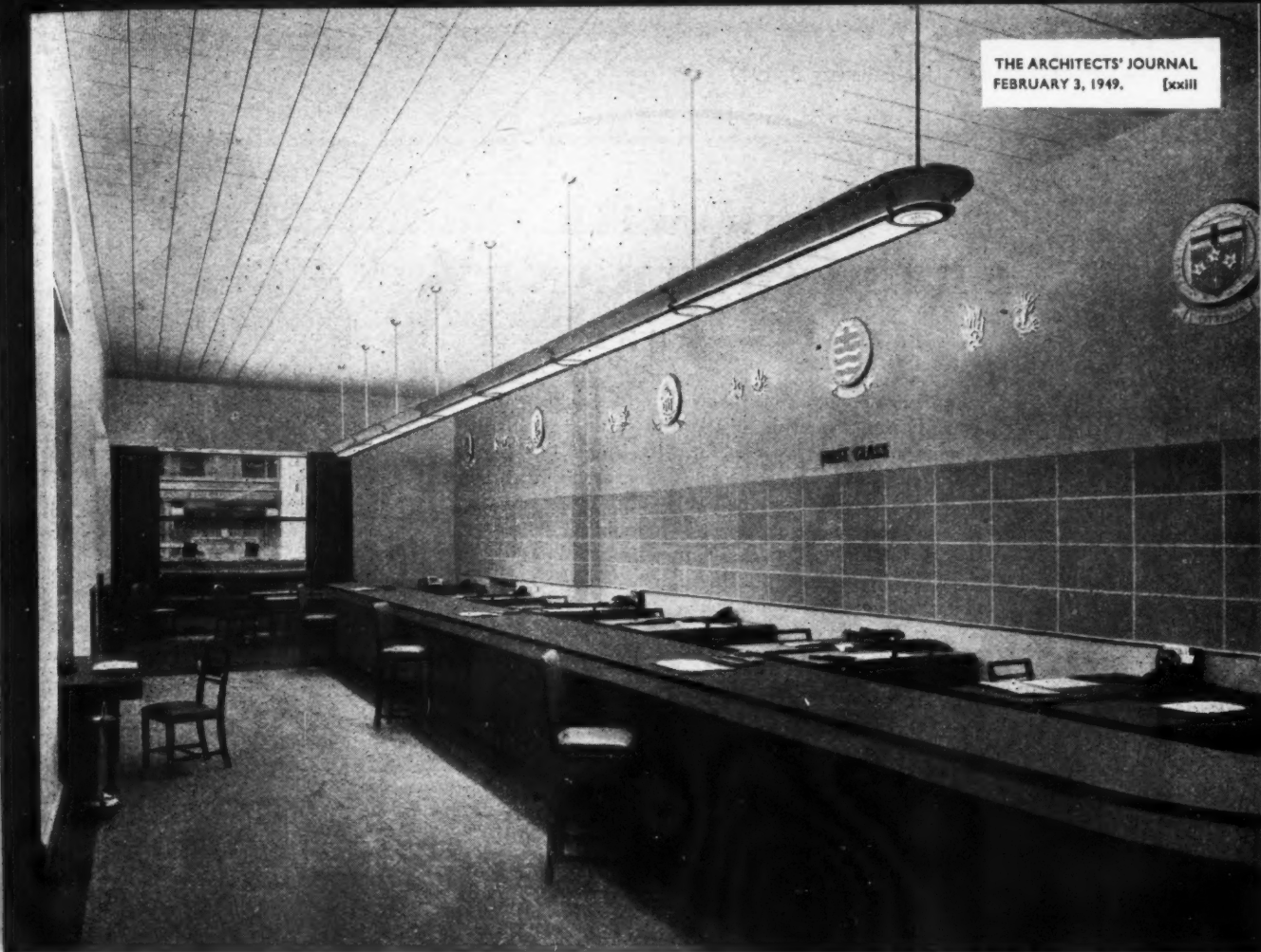
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View of the First Class Passenger Department, Cunard White Star Ltd., Lower Regent Street. The fitting illustrated is 43 ft. 6 in. long, 1 ft. 5 ins. wide. Below each suspension rod is a special reflector housing a 150 watt lamp screened by concentric louvres. The space between the louvres has a hinged frame with a reeded glass panel and incorporates two 5 ft. fluorescent lamps. The metal work is finished copper anodised aluminium with the reflector sprayed off-white.

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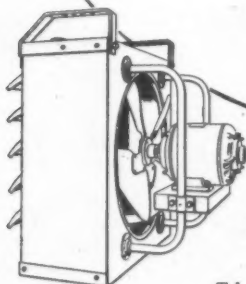
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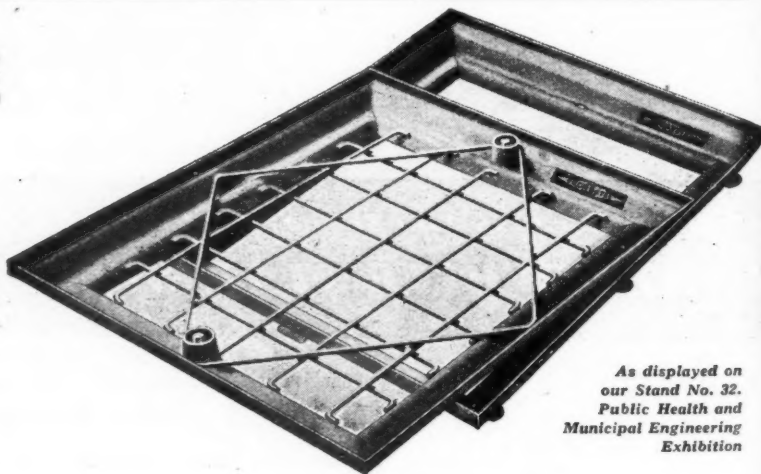
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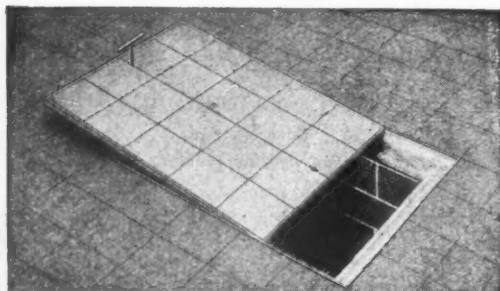


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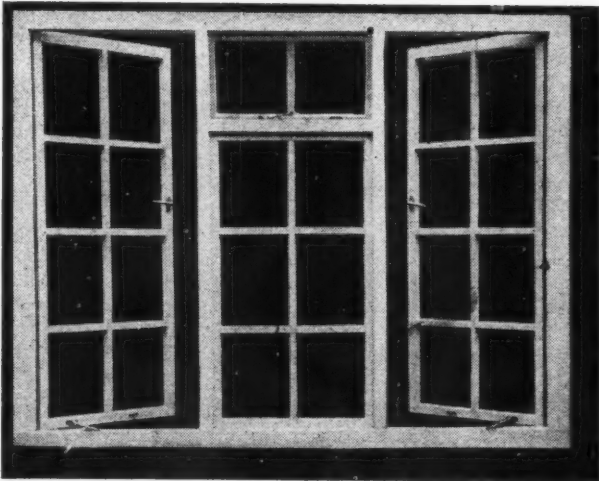
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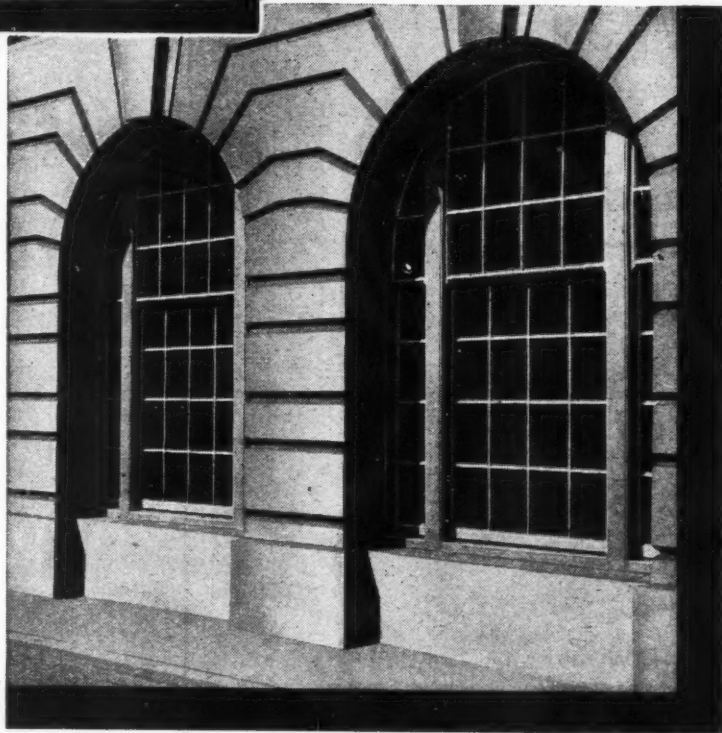


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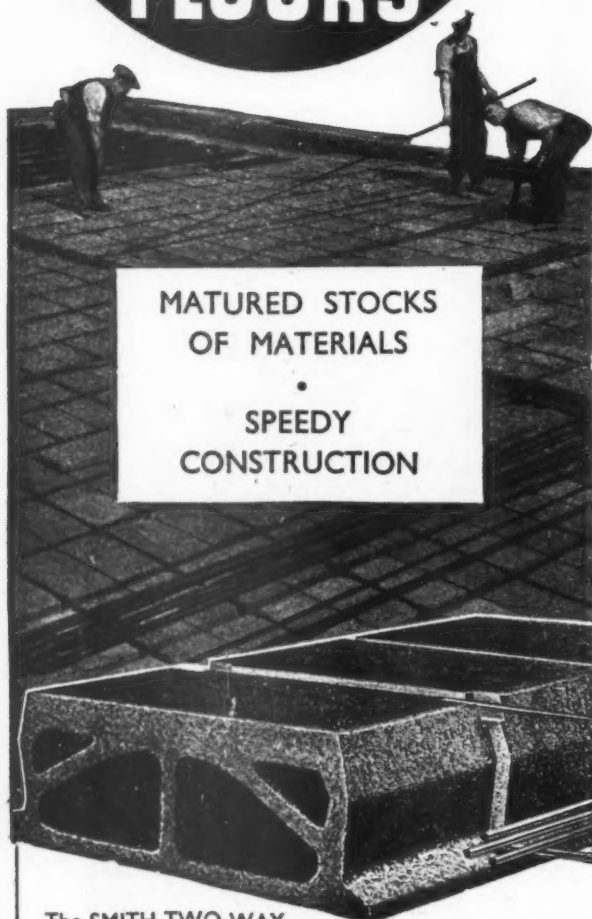
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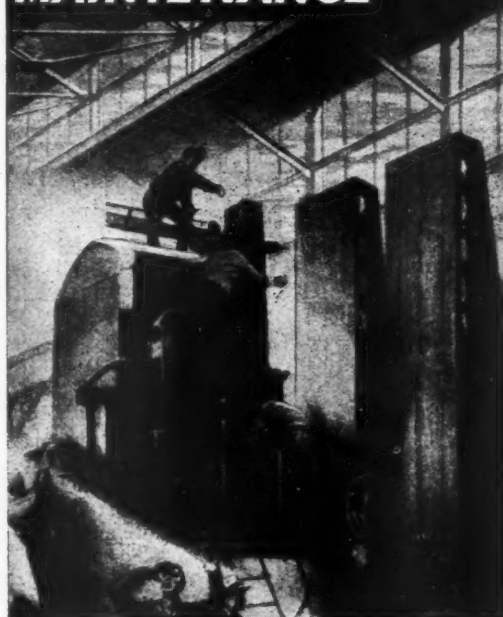
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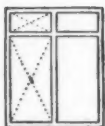
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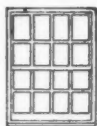




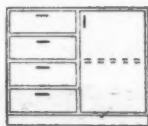
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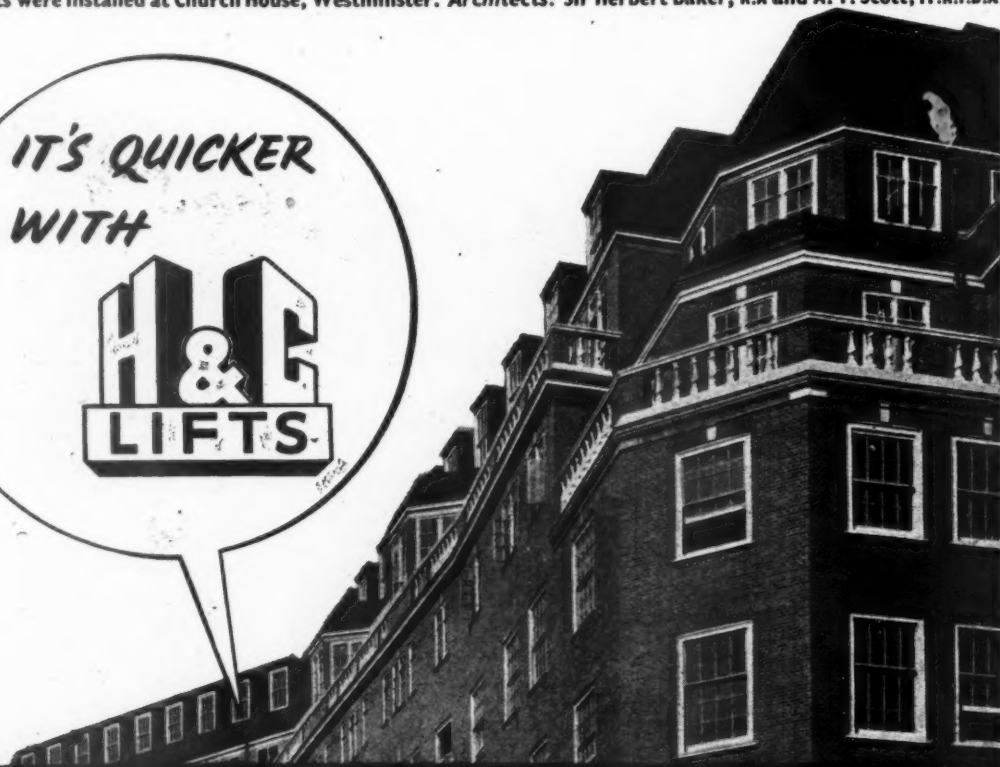
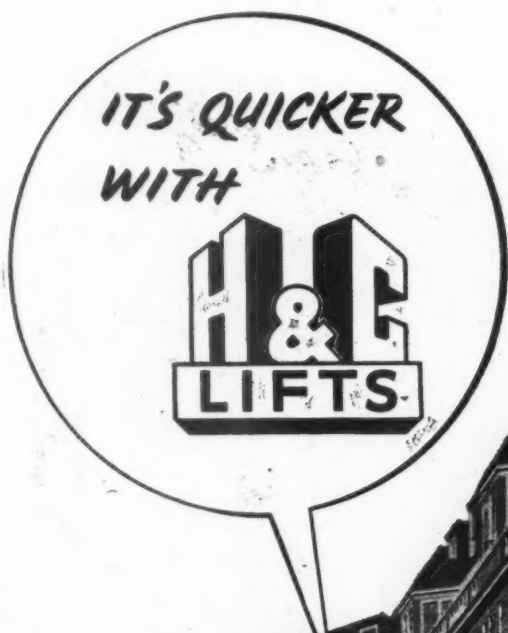
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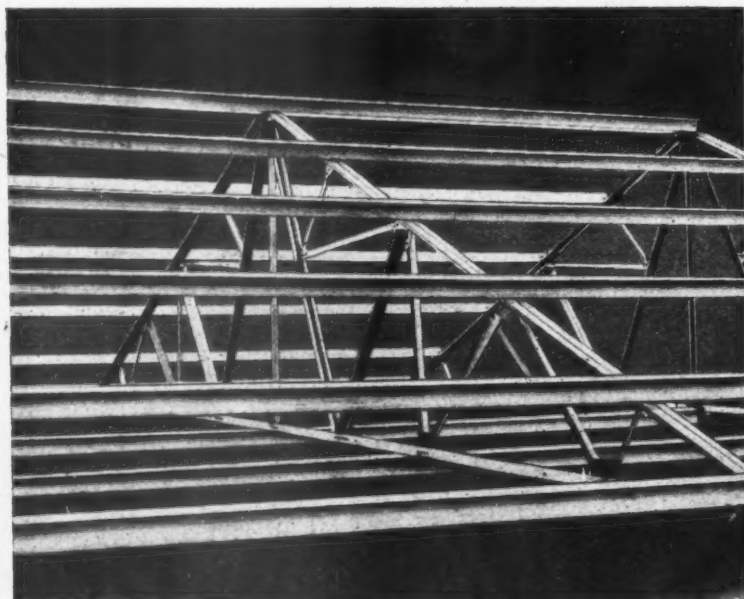
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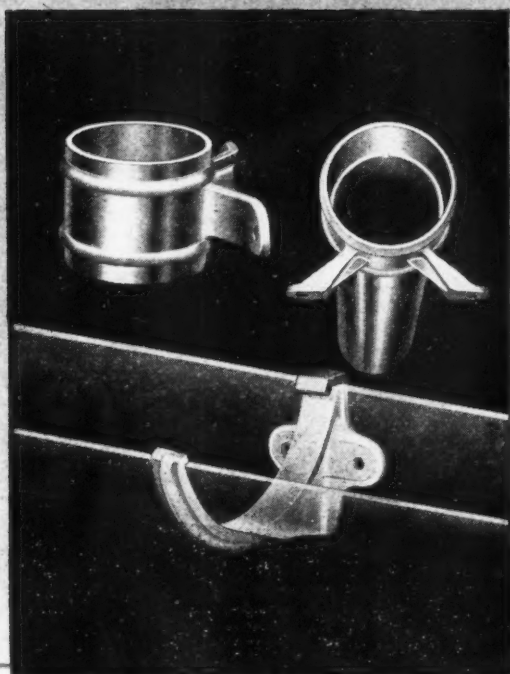
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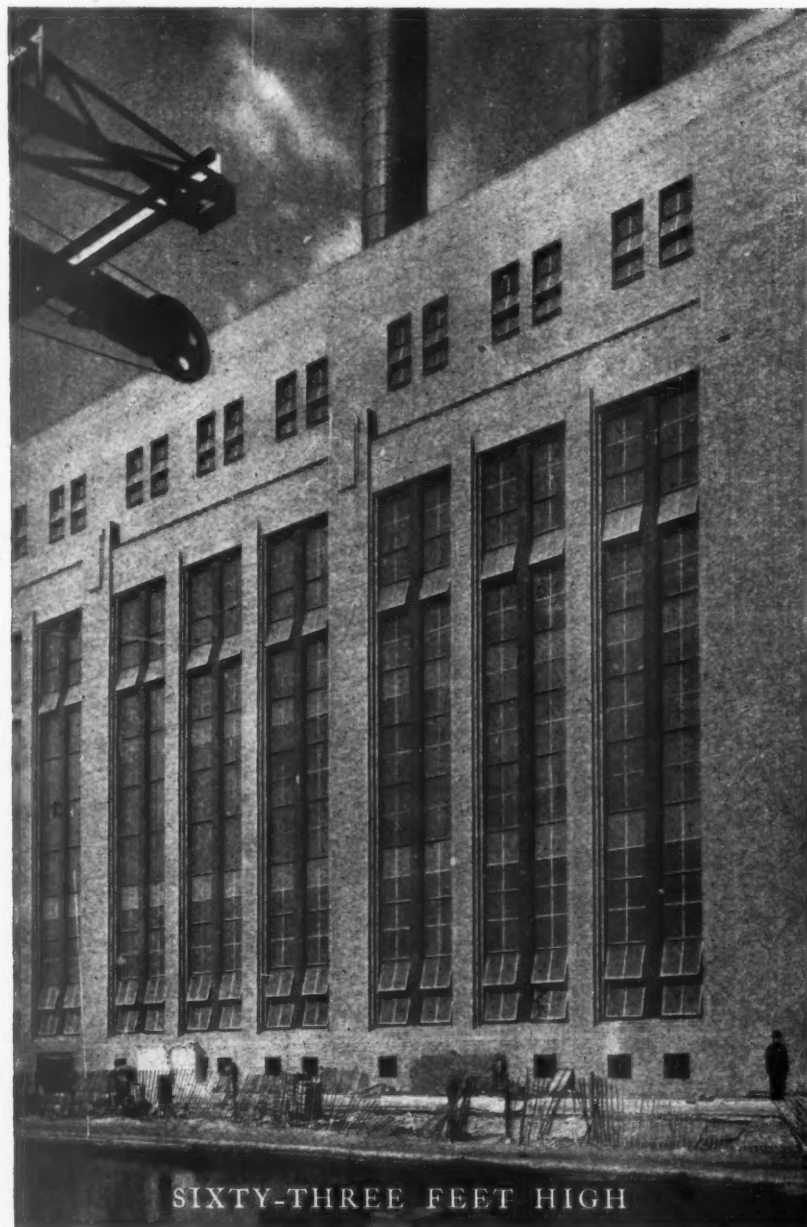
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DIARY FOR FEBRUARY MARCH AND APRIL

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 given in the glossary of abbreviations on the front cover.

CANTERBURY. *RIBA New Schools Exhibition.* At Canterbury School of Art. (Sponsors, RIBA and Kent CC.)
UNTIL FEB. 8

DUBLIN. John Betjeman. *Victorian Architecture.* Architectural Association of Ireland, 8, Merrion Square. (Sponsor, Architectural Association, Ireland.) 8.
FEB. 8

EASTBOURNE. *Newer Heat Exhibition.* At the Assembly Hall, Town Hall, Eastbourne. (Sponsor, CUJC.)
UNTIL FEBRUARY 9

LONDON. *A Course of Six Lectures on Timber.* R. T. Walters. *Framed Timber Structures.* Feb. 7. R. T. Walters. *Glued Laminated Timber Structures.* Feb. 17. H. A. Cox. *Timber as a Raw Material.* Feb. 28. D. A. Hubbard. *Modern Adhesives—Their Present and Future Application.* March 10. B. A. Jay. *New Woods for Old—Some Alternatives to Traditional Timbers.* March 21. All lectures begin at 7.15 p.m. and will be held in the Fyvie Hall at the Polytechnic, Regent Street, W.1. (Sponsor, TDA.)
FEB.-MARCH

A Series of Papers on Industrial Design. Robin Darwin. *The Training of the Industrial Designer.* Feb. 16. John Gloag. *British Industrial Design and World Markets.* March 2. At the RSA, John Adam Street, W.C.2. (Sponsor, RSA.) All meetings begin at 2.30 p.m.
FEB.-MAR.

Engineering Equipment and Materials Exhibition. At the Old Horticultural Hall, Vincent Square, S.W.1. (Sponsor, "Britain's Best" Exhibition.)
UNTIL FEB. 9

Exhibition of Visual Aids. At the Murray House Exhibition Hall, Vandon Passage, Petty France, S.W.1. (Sponsor, CID.)
UNTIL FEB. 28

Professor W. G. Holford. *Design in City Centres.* At Caxton Hall, Westminster. (Sponsor, TPI.) 5.30 p.m.
FEB. 3

Cyril H. Walker. *Housing Director. Housing Programme of the London County Council.* At the Institution of Structural Engineers, 11, Upper Belgrave Street, S.W.1. 6 p.m. (Sponsor, National Amenities Council.)
FEB. 4

R. Lonsdale-Hands. *Where is the Voice of Industrial Design?* Luncheon meeting, Royal Society, Burlington House, Piccadilly, W.1. (Sponsor, DIA.) 12.30 p.m.
FEB. 4

E. C. Strathon. *Discussion on E. C. Strathon's address on "The Practical Aspects of Valuations Under Part VI of the Town and Country Planning Act, 1947," given Dec. 6, 1948.* Royal Institution of

Chartered Surveyors, 12, Great George Street, S.W.1. 5.30 p.m. (Sponsor, RICS.)
FEB. 7

L. C. Rettig. *The Lighting of Churches.* The Illuminating Engineering Society, 32, Victoria Street, S.W.1. (Sponsor, IES.) 6 p.m.
FEB. 8

RIBA Presidential Address to Students and Presentation of Prizes. Criticism of work submitted by Anthony Chitty. At the RIBA, 66, Portland Place, W.1. 6 p.m.
FEB. 8

G. Bell Barker. *Three Forces in Planning.* Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.) 6.15 p.m.
FEB. 9

Sir L. H. Keay. *Prize Distribution.* Hammersmith School of Building and Arts and Crafts, Lime Grove, W.12. (Sponsor, Hammersmith School of Building.) 6.15 p.m.
FEB. 9

E. H. Collier. *Modern Concrete Technique on the Job.* At the Caxton Hall, Westminster, S.W.1. (Sponsors, ABT.) 7 p.m.
FEB. 10

NOTTINGHAM. Ove. N. Arup. *Reinforced Concrete.* At the Notts, Derby and Lincs Architectural Society, 64, St. James Street. (Sponsor, Notts, Derby and Lincs AS.) 7 p.m.
FEB. 7

N E W S

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Everest. Chartered Quantity
Surveyors 130

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.

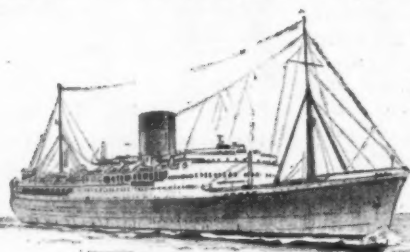


The Royal Opera Arcade, opened in 1818, designed by John Stanley Repton, son of Humphrey Repton. The Arcade, the Carlton Hotel and His Majesty's Theatre, occupying a site of more than one acre in Pall Mall, have been purchased by the New Zealand Government. The site is to be used for the construction of a new Government Building. Plans for the rebuilding project have not yet reached the stage at which it is possible to indicate the future of the Opera Arcade and His Majesty's Theatre.

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From AN ARCHITECT'S Commonplace Book

FRONT VERSUS BACK. [*From Houses: The Things We See, by Lionel Brett (Penguin Books).*] It would be pleasant if living rooms covered the whole garden frontage of a terrace house, so that gardens, which should call to mind daisies and deckchairs and the hum of bees, need no longer resound to the clang of dust-bins and the roar of coal-sacks. But that means putting kitchen, dustbin, coalhole and the rest at the "front." The "front" (or street-side) in fact becomes the back and our main entrance is, as perhaps it should be, "up the garden path." But what of the visitor arriving by car? There is a compromise solution: to put both main and service entrances, suitably screened from each other, at the "front." Ultimately, with the development of the roundsman's hatch, the service entrance will probably disappear altogether.

★★

First-class Diplomas in the SCOTTISH FURNITURE COMPETITION have been awarded as follows:

H & A. G. Alexander & Co. Ltd., Rutherglen: Nursery furniture. Bunk cot comprising chest in black walnut, cot and mattress and base. Designer:—Esme Gordon. Nursery clothes cupboard in natural birch and veneered with Formica panels, drawer chest, toy cupboard, child's table, rocking chair and child's chair. Designers:—Neville Ward and Frank Austin. Plastic work designer:—Enid Marx. John McGregor & Sons Ltd., Renfrew: Bed settee and two arm chairs for bed sitting room. Designed for lower income group. Designer:—Walter Cornell. Matthew Spears & Co. Ltd., Kirkcaldy. Sapele mahogany sideboard. Entirely machine produced, using a prefabricated method. Designer:—James Henderson. Macneill Brothers, Beith: Occasional chair in Honduras mahogany with seat covered in moquette. Designer:—J. C. Macneill. Double bedroom suite in English walnut. Plywood ends, bottoms, backs, tops, divisions, drawer guides and bearers. Offcuts in interior. Designer:—J. C. Macneill. A. H. McIntosh & Co. Ltd., Kirkcaldy: Mahogany buffet with carving table. Two of the buffet cupboards can be arranged as a refrigerator and an insulated hot cupboard. Designer:—Peter Melville. Double bedroom suite in Indian laurel, African walnut and plywood. Standard of construction similar to utility furniture specification. Designer:—Peter Melville. Dressing table in Scotch elm and plywood. Made to present standard of utility furniture. Designer:—Peter Melville. Whytock & Reid, Edinburgh: Dressing Table of modified Rognon form. Designer:—J. Connell Pringle. Hand-made solid mahogany occasional table. Designer:—J. Connell Pringle.

N. H. & E. Caplan, Ltd., Glasgow. Fire-side armchair covered in handwoven material. Designer:—Montague A. Caplan. Scottish Co-operative Wholesale Society, Ltd., Beith: Double bedroom suite in African mahogany and English elm. Each wardrobe unit is reversible to permit of door opening to either hand. Designers:—R. Y. Goodden and R. D. Russell. Scottish Co-operative Wholesale Society, Ltd., Beith: Single bedroom suite in African mahogany. Designers: Goodden and Russell. Chair, designer:—Hugh Stevenson. Drawleaf table and chair for dining room in Canadian birch and zebrano. Designers: Goodden and Russell. Fisher, Gillies & Co. Ltd., Dundee: Sideboard and pull-out table in beech. Designer:—Hugh Martin. H. Morris & Co. Ltd., Glasgow: Dining room table and chair in laminated construction. Designer:—Basil Spence. Thomas Justice & Sons, Ltd., Dundee: Occasional table in Scottish walnut. Designer:—Charles Addison.

The judges were:—Furniture designers: Mr. Brian O'Rourke, Mr. David Booth, Mr. Ernest Race. Retail trade representatives: Mr. Geoffrey Dunn, of H. G. Dunn & Sons, Ltd., Mr. Croften E. Gane, of P. E. Gane, Ltd., Mr. Ernest Taylor, head buyer of Ray & Miles, Ltd. There were 114 entries in the competition which was organized by the Scottish Committee of the Council of Industrial Design. The judges awarded 18 first-class diplomas and 37 second-class diplomas.

The Georgian Group propose a SCHEME FOR RESTORING CHISWICK HOUSE and reintroducing the house into the life of the nation by presenting there during the

1951 Festival an exhibition of 18th century furniture and pictures.

The scheme includes the illumination of the gardens after sundown, with judicious flood-lighting of their architectural features; by producing two or three times a week in the gardens a Masque, "Lord Burlington and Mr. Kent"; by arranging occasional fire-work displays, including water-pieces, on the lake; and lastly by holding, during the course of the Festival, a Ball there with, in the interval, a special late performance of the Masque.

Ministry of Education National SHORT COURSES FOR TEACHERS OF ARCHITECTURE are to be held at the RIBA, April 8-9.

The Ministry will hold, at the RIBA, a Short Course on Architectural Education in conjunction with the RIBA Board of Architectural Education. The Course is limited to full-time and part-time Teachers of Architectural Subjects in Technical and Art Colleges and Schools which offer professional courses for intending architects. In addition to the Heads of Architectural Departments and Senior Lecturers, other Teachers and Studio Masters engaged on instruction in the subjects of Planning, Theory and History of Architecture, Interior Design and Colour, may be nominated. Local Education Authorities are asked to keep the number of nominations from any one College to a minimum, as the available accommodation is limited. Applications for admission must be made immediately on Form 106 R.S.C. obtainable from any Local Education Authority or from the Ministry.



Two of the Scottish Furniture Competition designs. Left: A chair, designed by Basil Spence, and made by H. Morris and Co. Ltd., Glasgow. The chair, constructed of laminated African mahogany and Canadian betula, was awarded a First-class Diploma. Right: Brian O'Rourke, chairman of the Judges panel, examines a dining fitment for solving the space problem in a small room. The fitment made by Thomas Justice and Sons, Ltd., Dundee, received a Second-class Diploma.



Professor Gropius Explains

Work is to start next June on the post-war expansion programme of Harvard, the oldest and most eminent of US Universities. Harvard started its building programme by commissioning the Architects Collaborative to design a three million dollar group of seven graduate dormitory blocks. The head of the group is Walter Gropius, Director of the Harvard School of Architecture and former

Director of the Bauhaus. Associated with Gropius are Jean and Norman Fletcher, Sarah and John Harkness, Robert and Louis McMillen, and Benjamin Thompson. Walter Gropius is shown explaining the model of the dormitory group to Dean Erwin Griswold, of Harvard. The scheme, which also includes a community centre, is illustrated on pages 125, 126.

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★★ CRAFTSMEN IN THE BUILDING INDUSTRY WILL RECEIVE AN ADDITIONAL ½d. AN HOUR as a result of a revision of standard wage rates in accordance with movements of the index of retail prices.

The National Joint Council for the Building Industry have authorized application of the new rates from February 7, with proportionate increases for labourers, whose rates are a fifth less than those for craftsmen. The inner London rates will be 2s. 11½d. for craftsmen and 2s. 4½d. for labourers, the scale decreasing down to rural districts, where the revised rates will be 2s. 8½d. and 2s. 2d. respectively. The council considered an application from the union side for a reduction to 3d. of the margin between craftsmen's and labourers' rates instead of an average difference of about 6½d. as at present. The union view on this matter is that labourers are, in fact, more skilled than their category suggests, while the employers feel that it is necessary to maintain an adequate differential between craftsmen and labourers if the training of the former is to be for them a worth-while following. The matter was referred to a committee, with a suggestion that the distance limit to qualify for travelling allowance should be reduced. Another matter referred to a committee was the question of apprenticeships in the industry. Through the curtailment of free building enterprise, employers have not been able to absorb so many apprentices, and in London the rate of entry of apprentices is down to 1,000 a year, instead of the 5,000 which should be absorbed.

Plans have been made for a NEIGHBOURHOOD UNIT at South Kilburn by the Willesden Borough Council. They have asked the Ministry of Health for permission to acquire the freehold of 716 properties for that purpose, covering an area of 27 acres. Already 126 flats—part of the scheme—are nearing completion at a cost of £200,000. The area for demolition and rebuilding is a triangular section bounded by Cambridge Avenue, Canterbury Road, and Salisbury Road.

NEWS IN BRIEF

Preservation of Royal Opera Arcade has been promised by Mrs. I. M. Bolton, Chairman of the LCC Town Planning Committee, in view of its architectural interest.

A public inquiry on Bracknell, the proposed new town in Berkshire, has been announced by the MOTCP, and will be held at Bracknell on February 23.

Mr. Roy Fowkes has been appointed Police Deputy Chief Architect and Surveyor at New Scotland Yard.

Exhibition of Packaging Materials The Institute of Packaging and the Printing, Packaging and Allied Trades Research Association are collaborating with the Council of Industrial Design in arranging an exhibition which will show some of the more interesting packaging materials in current use as well as recent developments. The exhibition is the second in a series on different subjects organized by the Council of Industrial Design to assist designers in their day to day practice.

THE EXTERNAL STUDENT

WHEN the joint committee of the MARS Group and the Architectural Students' Association published its interim report last October fairly wide comment was aroused by its estimates of the number of students now under training, and particularly of the number outside the "recognized" schools. The Officers of the RIBA Board of Architectural Education stated at the time that they were not prepared to accept the figures without careful examination: this examination is now complete, and the Officers have published their reply.*

It is surprising that the Officers of the Board should not have had the figures at their fingertips, but it is good that they should now have set them out for all to see. And it is a measure of the usefulness of what we have heard called "unrepresentative" committees that such a committee should have been instrumental in making the information generally available. That the MARS/ArchSA estimates were wide of the mark is less important—although in fact they were not quite as far out as the Officers of the Board, using a slightly peculiar method of accountancy, would seem to suggest.

The figures now published can presumably be taken as authoritative, and although the Officers of the Board seem to view them with complacency they will scarcely allay the disquiet to which the MARS/ArchSA estimates gave rise. In 1947/8 it appears that there was a total of about 13,200 Probationers and Students RIBA, of whom about 4,500, or just under a third, were in the "recognized" schools—that is, schools whose students are exempted from the RIBA external examinations. The "unrecognized" schools accounted for some 3,000, compared with the MARS/ArchSA estimate of 1,000, leaving about 5,000 prospective architects who were not receiving any school training whatsoever. Even allowing for certain deductions which the Officers of the Board make from this total (and some of them appear trifling) the MARS/ArchSA statement that there are about 8,000 young men and women trained outside the "recognized" schools would therefore in the main appear to be confirmed, and the attention that MARS/ArchSA drew to the importance of the RIBA external examinations still seems highly pertinent.

MARS/ArchSA rightly pointed out that these examinations not only gave the lead as to the type and extent of the studies which should be undertaken by the student who is working on his own, but that they have also influenced greatly the type of instruction in the "unrecognized" schools, and even more the nature of correspondence courses. Added emphasis is now given to this by the RIBA statement that not only are there about 3,000 students in "unrecognized" schools but that a further 3,000 are taking correspondence courses—a figure that *excludes* service personnel taking War Office courses.

* See pages 117-118.

While many architects may find little cause for complaint in the RIBA final examination syllabus, few will surely have much sympathy with those extraordinary study and design subjects, the "Testimonies of Study," which every Probationer must submit, and have approved in their entirety, before he can gain admission to the external Intermediate examination.

There are rumours that the Testimonies are to have an overhaul. It is long overdue, and may it be thorough. At the same time the question of testimonies in relation to the "unrecognized" schools should be put under review. But this, although urgent, is a relatively minor matter; there remains the problem of external students as a whole. That they represent, numerically, a very large problem is now clear beyond doubt. If we believe that school training is desirable, and the RIBA has always stated that it does, it is evident that more vigorous measures should be taken to make it more generally available. Few will share what is apparently the view of the Officers of the RIBA Board of Architectural Education, that all is as well as can be expected.



The Architects' Journal

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N O T E S & T O P I C S

INAUGURAL ADDRESS

On other pages of this JOURNAL, extracts from Robert Furneaux Jordan's inaugural address to the AA can be read. It is a pity that space does not permit reprinting it in full. To give an account of oneself before one's employers and students is an unenviable task; only too often on such occasions the speaker is unable to find the right approach to his audience. He will either climb on the Icarian wings of bombast or creep within the snail's shell of timidity. Jordan avoided both pitfalls and gave an address which was acknowledged by those who heard it to have been one of the best heard

at the AA. Of course, it is easy under the immediate spell of a speaker to think that his talk is the best ever, but I am prepared to wager that if anyone reads Jordan's address in a year's time both matter and manner will be as impressive as they are today. The evening set off Jordan's reign as Principal to a most encouraging start.

A CAUSE FOR BEWILDERMENT

The entries for the Lambeth Housing Competition (some of the designs, I understand, are shown elsewhere in the JOURNAL) should arouse considerable interest, particularly those who are eager to break into the somewhat restricted circle of "well-known architects." For these last, I fear the competition will be a cause for some bewilderment. At any rate, I am bewildered, but perhaps I have fallen a little behind the times. With endless technical books to read, standards to maintain, and bye-laws to keep, how can a solitary Astragal compete with the teams of architects and specialists who set the pace?

A glance at a flat plan of the winning design (described by the assessor as "almost faultless") will illustrate my point: a largely unlit corridor with no less than three right-angled turns. Is this some new spatial effect? An 8- by 16-ft. double bedroom, with a bare 2 ft. to push past the foot of the beds. Or a front door faced by a w.c. and

flanked by a bathroom. This can be convenient, and the oft accompanying noise no doubt provides a novel way of breaking the ice when visitors arrive—but is this the latest way to plan?

Even a study of the conditions and the assessor's report has left me none the wiser. It was unfortunate that the assessor could not attend the press meeting, when I might have dared to ask for an explanation. The conditions are of the general kind that leave all the thought to the competitor. Density to be 70 persons per acre—such-and-such percentages of 1-, 2- and 3-bedroom dwellings. Three-storey flats favoured, 8-storey flats "not objected to as a focal point." Three-storey houses looked upon with approval, double-maisonnettes considered. LCC bye-laws to be complied with, and so on.

The result? Well, the winning design has no houses at all. A fig to the mixing of houses and flats and other social nonsense. The design placed second has refuse chutes in the kitchen, the *bête noire* of LCC officials, and some bedrooms below the recognized minimum. It is obvious that a study of the conditions and the result leads to no conclusion, save, possibly that by my out-of-date standards, if these designs win, then the 74 also-rans must have reached rock-bottom.

Here I can see some awkward questions sticking up, so I'll just lay low and say nothing.

CALIFORNIAN VISION

Is photography an art? The argument has been going on for a long time. Since no one has yet been able to define the word Art clearly, it is quite safe to say yes. Anyway, I found Edward Weston's photographs of American views and people at the Focal Press Gallery* fascinating to look at. If anyone has proved that the camera is, considered on its own terms, a legitimate means of creative expression, Weston has done so. It was a wise decision which made him the first photographer to receive the Guggenheim Fellowship.

*31, Fitzroy Square. The exhibition continues till February 12.



Stacked Stairs, MGM. One of the pictures at the Focal Press exhibition of the California photographer, Edward Weston, on which Astragal comments this week.

Most of the pictures at his exhibition were taken in the brilliant sunlight of California. They have a strange, unearthly quality of rigid, architectonic patterns and textures—a surrealistic flavour almost frightening in its precision. With eyes that see more than most, Weston finds vital design in strange places—in a fragment of a burned piano, in the crazed hood of an abandoned car, in a stack of film property staircases.

Photographers among my readers will be interested to know that his superb technique is achieved by quite primitive means. No hypertechanical miniature cameras for him. For most of his work he relies on an old-fashioned type of camera on a tripod with a slow rectilinear lens which cost him \$5. The camera takes 8 by 10 plates or films. He uses panchromatic films, developed in pyro-soda, and prints contact on glossy chloro-bromide paper. "He belongs to the Straight School, and says, 'A photograph conceived on the ground-glass has a vitality and integrity not to be found in one depending upon subsequent changes, such as enlarging portions of the negative, alterations or corrections by retouching, or any phase of manual interference.'"

CRIME SHEET

As usual, I opened ARCUK's annual

report in the hopeful expectation of various shocking revelations, but this year nobody seems to have committed anything but the usual rather scrubby routine crimes. Three years' disqualification for owning 90 per cent. of the shares in a couple of building companies, a mutual back-scratching arrangement between an architect and a builder, and the usual "architect" (though unregistered) on letter paper. The penalty for the latter crime, by the way, is as high as £25, plus £10 costs, in Leeds, so I recommend you to do it in Beaconsfield, where the rate seems to be £2, plus £3 3s. What most of us tend to forget is that the Council awards maintenance scholarships, and spent £8,819 on them last year.

STRONG LAD WANTED

I understand that the post of Deputy Director of Architecture to the Festival of Britain is about to be publicly advertised—and no wonder, when you think of the amount of work to be done in the next two years, not only on the drawing board but also in the committee room. Here, surely, is a first-rate opportunity for a young architect with administrative ability, unerring taste and a high-tensile steel constitution to prove his skill in helping to initiate and pilot through the

ideas which, we hope, will make the South Bank Exhibition as memorable as Hyde Park, 1851.

ASTRAGAL

LETTERS

Gerald Haythornthwaite

L. W. Elliott,

A.R.I.B.A., A.M.I.C.E.,

A.M.I., Struct. E.

Hope Valley Cement Works

SIR.—A general impression is gained from the recent announcement of the approval of the Hope Valley Cement Works extension that full regard has been paid to the amenities of the valley, and that the firm have only obtained consent subject to strict conditions.

Your readers may be interested to hear that the two most damaging features of the proposal have not been moderated in any way. A chimney 400 feet high (only 100 feet short of the height of Blackpool Tower) will demean the famous view of Peveril Castle and Peak Cavern from Mam Tor and it will also be displayed with its plume of smoke for many miles around the encircling hills. Gradually a thousand acres of the best farmland in the valley below the Castle will be taken for clay and left pitted and useless for ever. This afflicted countryside is in the heart of the proposed Peak District National Park.

The landscape Plan which was submitted in April last to support the British Portland Cement Company's application to extend their works was prepared in 1943 with the idea of screening the damage already done since the works began 14 years before. The conditions which the Ministry of Town and Country Planning have laid down will enforce the carrying out of this landscape plan with certain improvements. This is essential to cloak the existing damage, but it must not be taken to have greater significance. It will not mitigate the horror of the gigantic factory chimney or the desolation of the ruined farmland.

GERALD HAYTHORNTHWAITE,
Hon. Sec., Joint Committee for the
Peak District National Park.

School Construction

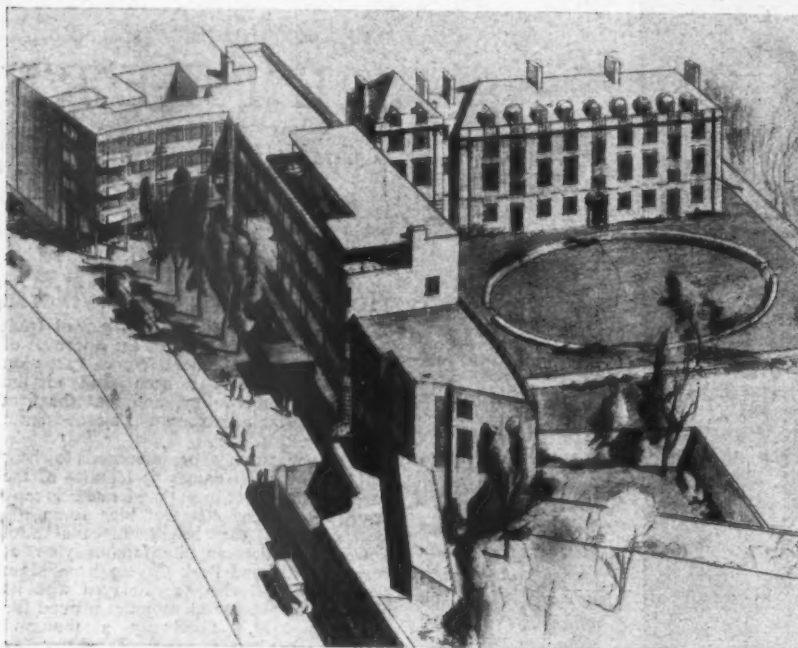
SIR.—I have a few comments to make concerning the criticisms made about the Technical Working Party Report on School Construction in the issue of the JOURNAL dated December 9, 1948, under the Technical section, Construction General, 17.43.

In the Working Party Report mention was made concerning the supply of materials and in paragraph 15, especial mention was made of steel supplies being inadequate to meet requirements. It would, therefore, be reasonable to assume that any recommendations made on structural systems would have this factor well in mind.

Your criticisms of the use of 10 in. by 4½ in. by 25 riveted frame was that it was inadequate from the point of view of working stresses and rigidity. I agree with this if the design is treated traditionally, as pin jointed, but surely a competent engineer would treat the design as a semi-rigid one as provided for in the new British Standard 449:1948, especially where the 6 in. by 5 in. by 25 stanchion would be capable of sustaining bending moments in addition to the direct load. Calculations show that the deflection (which is the criterion) is 1/340 span with a distributed loading and slightly less with a 3rd point loading, and the difference in deflection between say ½ of the

THE DESIGNS THAT CAMBRIDGE REJECTED

THE GROPIUS-FRY SCHEME FOR CHRIST'S



The news that Professor Gropius is to be the architect of the new buildings at Harvard University (his designs are illustrated on pages 125-126 of this issue) is another reminder of the extent to which America's gain has been Britain's loss, for during the period of his residence in Britain, before he went to America in 1937, very little advantage was taken of the presence here of so eminent a teacher and practitioner. The Harvard project is also a reminder that one of the few attempts that were made to employ Gropius in England—and this came to nothing—was also a university project. He was commissioned in 1936, in collaboration with Maxwell Fry, to prepare designs for new buildings at Christ's College, Cambridge. The designs—which have not hitherto been published—are given herewith in the shape of two perspective drawings. They were, however, rejected by the College authorities on the grounds of their too frank modernity. In matters connected with the arts the older British universities have not lately earned a good reputation for judgment or enterprise, but Harvard has now shown that academic standing and a progressive architectural policy can go hand in hand.

dead load and the live load would be about $\frac{1}{4}$ of an inch or 1/850 of the span.

Again, in the case of the welded portal frame, I agree that a single welded joint frame would be overstressed at the corners, but the sections could be stiffened at the corners or the whole stanchion could be flame cut and reassembled in a tapering form, using shapes more usual in rigid forms of structure.

The reinforced concrete designs shown appear to have been based on a maximum of 7 in., and the depth given would use compression reinforcement, as this might also be necessary for pre-cast members for handling stresses. It might be possible to further save steel in this case without resorting to greater depths of members by providing a table to the ribs, thus creating tee beams.

I presume it is because of points like this that the Appendix II recommends that a competent engineer should be consulted in all cases where framed structures are used, presumably to obtain the maximum benefit from up-to-date practice, to achieve economy in the use of scarce materials.

Your criticism concerning fire resistance appears to have been based on a wrongly conceived idea, as the report pointed out that with easy evacuation of school premises, the personal hazards are the most important factors, and although light fire loads might cause collapse of thin walled metal sections, the heavier structural steel members should be as safe as concrete for the very early period. The text of Appendix II discussed this question of fire standards.

A further criticism was made that the weights of steel were quite different in Table VI and VIII and the difference is accounted for by the fact that Table VI refers to weights per bay (including secondary beams, purlins, ties, etc.) whilst Table VIII refers to weights per frame only, as will be apparent on closer examination.

I should be glad to have your further views as it appears that in Appendix II the tables have been considered without due regard having been given to the test.

L. W. ELLIOTT.

Our technical specialist replies:

The meaning of the last sentence of Mr. Elliott's second paragraph is not clear to me. I take it that he is of the opinion that the recommendations of the Report must bear in mind the present shortage of steel. If this is what he wants to say, I entirely agree. In fact, this was the reason for my objection to the extravagant steel consumption in the reinforced concrete frames.

On the other hand, regarding steel construction, the saving in steel cannot go as far as to result in a sub-standard building. The wording "riveted RSJ ordinary frames" (my italics) in Appendix II, Clause 3(i)(b), and in Tables VII and VIII suggests a traditional type of construction, or what else can be meant by the word "ordinary"? If the Working Party had in mind a "semi-rigid" design, why was this not made clear?

In the case of reinforced concrete frames, it is obvious that there are other and better solutions than the one suggested in the Report. The task of a review is, however, to comment on a report as it is and not on suggestions which it might have contained but, in fact, did not contain.

The criticism of the classification of the various systems from the point of view of fire resistance was made in full knowledge of Appendix III, Clause 17. Admitting that personal hazard is the most important factor in school planning, it is still wrong to put an exposed steel structure on equal footing with a reinforced concrete frame. The latter represents, without any additional cost, a high standard of fire resistance also from the point of view of damage hazard. I agree that "closer examination" of Tables VI and VIII reveals the difference

between the meaning of the figures, but the heading of Table VI is misleading.

Mr. Elliott refers to the recommendation of the Report "that a competent engineer should be consulted in all cases where framed structures are used." This recommendation is very sound, and it would be interesting to know why the Working Party did not take its own medicine.

In view of the very large volume of work involved in the school building programme, more attention should have been paid to structural problems than has been done by the Working Party. The danger is that Local Authorities will accept the structural recommendations of the Report as they are, but not the recommendation that a competent engineer should be consulted.

In Parliament

The desirability of open architectural competitions "to give the young architects of our country a chance to come forward" was stressed by Mr. Tom Braddock (Lab.—Mitcham), when he addressed the Commons during the second reading debate on the National Theatre Bill.

Mr. Braddock, himself an architect, urged the Government to see that those charged with the responsibility of erecting the National Theatre on the South Bank of the Thames should throw the project out to open architectural competition because, he believed, by that method they would get the best and most economical building. (Mr. Glenvil Hall, Financial Secretary to the Treasury, told him later in the debate that Mr. Brian O'Rourke and Mr. Cecil Masey had already been appointed as architects.)

Mr. Braddock referred in his speech to the new T.U.C. building in Great Russell Street—a project, he commented, which presented tremendous difficulties to the architect. The site was too small and the accommodation the promoters required to be put on it set a difficult problem.

"The method of open competition attracted to the project an architect who would never have been found under other conditions," he said. "I myself entered the competition so I know what the difficulties were, and it is clear that the competition has produced a work of great genius which could not have been obtained in any other way."

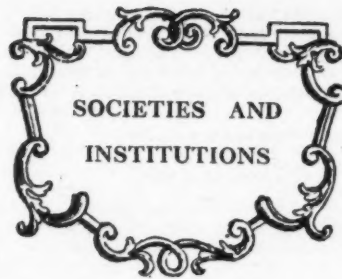
Mr. Braddock doubted whether the £1,000,000, to be provided under the Bill towards the cost of the building, would be sufficient for the purpose. He was also doubtful whether the site of an acre and a quarter would be enough, after looking at the great plans of some of the modern theatres in Sweden.

"I imagine a great deal more space is necessary," he declared. "We want a gracious lay-out, not a jumble of buildings, and it is necessary that we should have a really modern approach."

Mr. Braddock's proposal for an open competition was supported by Mr. Tom Driberg (Lab.—Maldon). Mr. Driberg also pleaded for good acoustics in the new theatre. "The art of acoustics seems to be much more mysterious to modern architects than it was to their predecessors in ancient times," he observed.

Mr. Glenvil Hall, who moved the second reading of the Bill for the Government, told the House that the plans provided for a building containing two theatres, one seating about 1,200 people and the other about 500. In addition there would be special accommodation for workshops, stores, canteens, a conference room, a library, a public restaurant and all the numerous offices that should go with such a centre as was contemplated on this site.

The House gave a second reading to the Bill without division.



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.

RIBA & MARS/Arch SA Architectural Education

The following comments have been made by the Officers of the RIBA Board of Architectural Education on the Interim Report, recently published, by the MARS/Arch SA Joint Committee on Architectural Education. Relevant passages of the MARS/Arch SA report are printed below in smaller type. In conclusion we publish a reply to these comments by the MARS/Arch SA Committee.

Shortly after the MARS/Arch SA report was published, the Officers of the RIBA Board of Architectural Education stated in the RIBA Journal and the professional press that they were not prepared to accept the statistics set out in the concluding sections of the Report without a careful examination, which was being undertaken. This examination has now been completed.

The Officers of the Board of Architectural Education do not propose to comment upon the Report as a whole, but to confine their observations to those sections of the Report which deal with numbers under training, external students, and the summary of numbers, i.e., paragraphs 70 to 75, inclusive. For ease of reference certain paragraphs of the MARS/Arch SA Report are reproduced, and the comments of the Officers of the Board are given below the paragraph or paragraphs to which they apply.

Paragraph 70: "It is often assumed, particularly by the Londoner, that training in a Recognized School is now the normal method of entry to the profession. And this assumption is inferred in the RIBA Report of the Special Committee on Architectural Education of 1943, where apropos the present decline of pupillage and apprenticeship it is stated that "in the meantime the RIBA must maintain its own system of qualifying examinations for the benefit of those who, for one reason or another, have not passed through a Recognized School." But a scrutiny of the numbers qualifying by external examinations and through the Recognized Schools reveals an astonishingly different state of affairs, for since 1935 the number of students taking the external examinations has greatly exceeded the number qualifying through the Recognized Schools. In 1938 the proportion was two to one, and today the difference is even greater."

The authors of the MARS Report are presumably referring to the Final Examination. The Officers of the Board of Architectural Education have noted the use of the word "taking" in the case of the RIBA external examinations and the word "qualifying" in the case of the Recognized Schools. The numbers "taking" the RIBA external examinations in any year are swollen by a large number of relegated candidates taking the examinations two or more times. These candidates thereby are counted at least twice. Similarly, to include those candidates who are taking the RIBA external Final Examination in Part I, Design, only, or Part II, the remaining subjects only, would lead to false conclusions.

The Officers of the Board have made a comparison as between Schools of Architecture recognized for exemption from the RIBA Final Examination and the RIBA external Final and Special Final Examinations. This comparison shows that in the year 1947 the figures were as follows:—

Final Recognized Schools	RIBA External Final and Special Final Examinations
No. Passed 328	No. Passed 338

Paragraph 71: "The picture is still more striking when we compare the numbers in the Recognized Schools in 1938-39 and 1946-47 with the total numbers studying architecture (i.e., all RIBA Probationers and Students). In 1938-39 those outside the Recognized Schools outnumbered those inside by more than five to one, and in 1946-47 by nearly three to one."

The following figures show that the number of Students and Probationers outside the Recognized Schools of Architecture exceeded the number of students in the Recognized Schools by just over two to one in 1938 and under two to one in 1947-48:—

Year	Number of Probs. and Students as per Annual Report	Number Attending Recognized Schools	Difference
1938	6,796	2,040	4,756
1947-48	12,840	4,550	8,290

Paragraph 73: "The rate of wastage amongst these External students is very large, for if we make the reasonable assumption that the great majority of students in Recognized Schools complete their courses and qualify, and compare the total numbers enrolling as RIBA Probationers with the total numbers becoming Associates, six to ten years later, we find that pre-war figures show about 30 per cent. falling by the wayside. The remaining 70 per cent. appear to have taken on the average about ten years to qualify. Even so, the number of External students due to enter the profession as qualified men in the near future is considerable, for making the fairly generous assumption that the present strength of the Recognized Schools is in the nature of 4,000 as compared with their pre-war strength of 1,500, it appears that there are today nearly 8,000 young men and women training to be architects outside the Recognized Schools. At the pre-war rate of wastage about 5,500 will qualify—five hundred more than the total number of Associates in 1945."

The Officers of the Board of Architectural Education have experienced some difficulty in determining how the conclusions in this section were reached. The authors of the Report may have overlooked the existence of the RIBA Special Final Examination, which is open to persons in practice and architectural assistants over 30 years of age, and the fact that candidates taking this examination are not required to have enrolled as Probationers. The following table shows for the years indicated the number of Probationers enrolled comparing with the number of Associates RIBA elected:—

Year	Probationers Enrolled	Associates Elected
1929-30	614	141
1930-31	616	195
1931-32	576	201
1932-33	498	223
1933-34	545	314
1934-35	507	303
1935-36	574	361
1936-37	604	361
1937-38	761	364
1938-39	967	420
1939-40	653	392
1940-41	411	299
1941-42	519	170
1942-43	694	185
1943-44	817	133
1944-45	1,008	159
1945-46	1,134	284
1946-47	1,897	681
1947-48	1,627	

It must always be borne in mind that the Probationership is not a class of Membership of the RIBA. Enrolment as a Probationer is merely an acknowledgment that the potential student has reached the required standard of general education for entry into the profession. In the year 1947-48 the number in attendance at the Recognized Schools of Architecture was actually 4,550.

Paragraph 74: "It is extremely difficult to determine how these eight thousand are preparing themselves to be architects, for no centralized records exist from which it is possible to find out the types of training received by candidates for RIBA External examinations. But we may perhaps arrive at some measure of the importance of the 'unrecognized' schools from the numbers of students in some of these schools during the session 1946-47. The enquiry carried out by this committee obtained information from 22 out of the 55 schools circulated, and in these 22 schools a total of 656 students were studying architecture, of whom 494 were working for their Intermediate and 52 for their Final Examination (leaving a balance of 110 who presumably did not propose to qualify). Of those working for the Intermediate, 259 were taking a part-time and 235 a full-time course, and of those working for the Final, 33 were part-time and 19 full-time. If we make a cautious estimate of the total number of students in all 'unrecognized' schools who are working for RIBA examinations by adding approximately 50 per cent. to the above figures, we arrive at a round figure of about 800."

SUMMARY OF NUMBERS

Paragraph 75: "The present position, therefore, can be summed up in the following approximate figures:—

(a) A total of 4,500 students in the Recognized Schools—a figure presumably temporarily swollen above the pre-war figure of 1,500 by interrupted studies and particularly by the attractive Ex-Service Grants which have encouraged many students to attend these schools who would not otherwise have been able to afford to do so.

(b) A total of about 800, or at the most about 1,000, in the 'unrecognized' schools, a figure which may perhaps be somewhat increased in the near future when these establishments attract the balance of students who can afford some school training but who cannot afford a 'Recognized' school without the help of an Ex-Service Grant.

(c) A total of about 7,000 who are preparing for RIBA examinations without any school training whatsoever, not even part-time evening courses. Many of these presumably make use of one of the correspondence courses, but it is impossible to say how many. A large proportion are almost certainly working in offices as unqualified assistants, and a number—and perhaps a surprising number—are, even today, articled pupils."

In response to an enquiry made by the Officers of the Board of Architectural Education, the MARS Committee have informed the Officers of the Board that the figure of 8,000 "young men and women training to be architects outside the Recognized Schools" is derived from the following numerical summary appearing in the RIBA Calendar 1948-49:—

Students	3,033
Probationers	10,224
Total	13,257

The MARS Committee assumed that roughly one-third of the Students (1,011) had taken their RIBA Final examination or had passed an equivalent examination in a Recognized School, or were working in offices pending election as Associates RIBA. This meant that approximately 12,000 were engaged in the study of architecture. In the absence of exact statistics the MARS Committee assumed that 4,000 of these were in Recognized Schools of Architecture, leaving 8,000 outside the Recognized Schools.

In Paragraph 75 (c) it is stated that there is a total of about 7,000 who are preparing for the RIBA examinations without any school training whatsoever, not even part-time evening courses. Many of these, it is stated, presumably make use of one or other of the correspondence courses, but it is impossible to say how many. The figure of 7,000 has presumably been arrived at by deducting from the total 13,257 referred to, the numbers stated in Paragraph 75 (a) and (b) to be in attendance at the Recognized Schools of Architecture, and at the schools included in the RIBA list of schools for full-time preparation for the RIBA external examinations, and in the list of Schools of Art and Technical Institutions with facilities for the instruction of intending architects. Against this total of 7,000 the following statement shows for the

session 1947-48 the number of students in the Recognized Schools, the "Listed" Schools, and the "Facilities" Schools. This information is based on returns made by the schools concerned in January and March.

Number of Students, RIBA and Probationers as at July	13,257
Number of students in—	
Recognized Schools taking exempting courses	4,553
Recognized Schools not taking exempting courses	880
Listed Schools	1,408
Facilities Schools	923
	7,764
	5,493

The Officers of the Board consider that in view of the fact that about 1,000 Probationers were enrolled between January and July and a fair proportion of this number would have fulfilled this requirement as a pre-condition of entry into a school the following September, it would be only fair to make allowance at the other end for the places in the Schools vacated by those who completed their course in July.

At a. approximate estimate this figure is in the neighbourhood of 470, in the Recognized Schools alone	470
	5,023

In the view of the Officers of the Board, therefore, it appears that instead of 7,000 students and probationers who the Report states are preparing for the RIBA examination without any school training, the number at its greatest computation does not exceed 5,000, and this number would be subject to considerable reduction if allowance were made for—

(1) Probationers who have taken the RIBA Special Final Examination (open to persons in practice and architectural assistants over 30 years of age whose applications have been approved by the Board of Architectural Education) and become Associates RIBA. Over the last three years at least 130 candidates taking the Special Final Examination were probationers, the number in July last reaching 65 out of a total of 341 candidates.

(2) Probationers who have become Licentiates. During the past twelve months 142 Licentiates have been elected. It has not been possible in the time available to analyse all these applications, but out of 25 applications it has been established that 10 are probationers.

(3) Probationers and students who are taking correspondence courses. The Officers of the Board have ascertained that for the year 1947-48 there was a total of just over 3,100 students taking the various correspondence courses operating in this country. This does not include Navy, Army and Air Force personnel taking the War Office correspondence courses. It should be noted that awards under the Government Further Education and Training Scheme are made for students preparing for the examinations by means of correspondence courses to supplement experience gained in offices. A high proportion of students taking correspondence courses do so because they live out of reach of any school facilities. For such students, correspondence courses provide legitimate means, in fact the only means, of organized study.

From the above information it will be realized that the figure of 7,000 students is reduced to just over 1,700 whose methods of training are unknown. This figure of 1,700 includes probationers whose deaths have not been notified to the RIBA and other probationers who have abandoned the profession without giving notification of the fact, for example, women who have given up their studies on marriage.

After making all deductions, state the Officers of the Board in conclusion, the residue is negligible.

THE MARS/Arch SA REPLY

The MARS Group and the Architectural Students' Association are grateful to the Officers of the RIBA Board of Architectural Education for the attention they have paid to Part 2 of the interim report of their joint

committee, and for the corrections to some of the estimated figures contained in it. They would point out, however, that certain of the Officers' remarks would appear to be misleading unless they are read carefully.

It was estimated in the report that about 7,000 were preparing for architecture without school training. This figure is rightly reduced to about 5,000 by the Officers, who have the information that there are about 3,000 in schools not taking exempting courses instead of the 1,000 estimated by the joint committee.

The Officers then argue that this 5,000 is considerably reduced if various allowances are made, and state that the MARS/Arch SA figure of 7,000 is in consequence reduced to 1,700 whose method of training is unknown. After certain further deductions they conclude that the residue is negligible.

MARS/Arch SA never estimated that there were 7,000 whose method of training was unknown; they estimated that there were 7,000 outside the schools. In order to reduce the 7,000 the Officers actually deduct the numbers taking correspondence courses, which are clearly stated in the report to be included in the 7,000. They also deduct certain probationers whose method of qualification is known, which is again quite irrelevant to the point.

The points made by MARS/Arch SA are fully confirmed by the Officers' figures, namely, that training in a fully recognized school is by no means as universal a method of preparing for architecture as it is commonly believed to be; that one of the most important tasks in architectural education today is to raise the standards of training for students who at present are outside these schools; and that the requirements of the RIBA external examinations are of vital importance because they set the standards for the majority of potential architects. This majority, as MARS/Arch SA originally suggested, is in the neighbourhood of 8,000 out of the July total of 13,000.

AA

R. Furneaux Jordan

January 26. At the AA, 34, 36 Bedford Square, W.C.1. INAUGURAL ADDRESS by Mr. R. Furneaux Jordan, Principal of the AA School of Architecture.

R. Furneaux Jordan:

I want you to think of what I have to say as being not so much an Inaugural Address—which sounds a little pompous—but rather as, shall we say: "Thoughts about a School of Architecture in the Second Half of the Twentieth Century." For over thirty years words on architecture have gone on being born in this room. On architectural education in particular so much has been said recently that I am left wondering whether there is really anything left for me to say. There is, however, one thing that I must say. Among the many kind and far too generous letters that I have had in the last few weeks was one from a friend with whom I worked in the now far-off days of 1940-45. He writes: "I remember well you saying to me, when we were together during the war, cooing over it as if it was a painting or a sunset, 'the AA is a lovely school!'" Well, if I did say it, I stick to it. The AA, with all its faults, its sometimes raggle-taggle organization, its crises, its polemics, its congested premises, its Yellow Books, its Planning Schools, its long procession of Principals, its achievements and its follies—is a lovely school. And tonight I add, with all due reverence and humility, "Long may it remain so!"

While we may have to smooth out some creases so that those who care about educa-

tion and architecture may apply themselves to their job undistracted, it would nevertheless be a terrible blunder so to iron things out that the life and loveliness of the AA were lost. It is adaptability to an ever-changing world outside that is important. It is the AA's independence that allows this adaptability; and so as an independent school it has a unique position in that it can well be a pace-maker or a yard-stick for those who make regulations by which some less fortunate schools are governed. This is a great responsibility.

My friend, Gordon Brown, is leaving with us the kind of large and exciting plan that one would expect from him, and it is being studied. But before I turn to the kind of things a School of Architecture may have to do in the future, let us see whether the contemporary architectural problem can be stated at all.

ARCHITECTURE AND CIVILIZATION

It is impossible to be civilized without architecture—architecture being no more than an envelope for men's activities. Moreover, when civilization, with all its attendant arts and learning, achieved most—as in the age of Pericles, of Justinian, or of the Plantagenets—then architecture was the paramount art, supreme and popular, from which the others, even the most humble flowed—being in itself the outcome of complete philosophies or systems of thought. Equally, the more truly an architecture has been of its own time and the more fully it has exploited and sprung from the technical resources of its own time, then the more immortal have been its achievements.

It follows that in a true understanding of both the social and technical nature of our times there is a sign-post telling the artist the direction he must take. It is not a road that will be equally attractive to everyone, but there is no other, and perhaps, in the end, it will pass through more varied and more lovely scenes, than one suspects. As the second half of our century opens we face certain glorious but shattering realities; one is that we have been born into the middle of the greatest social upheaval since the fall of the Roman Empire. The problems set by that upheaval—moral and material—lies all round us and many involve the architect. The administrative instruments for their solution—as we move, faltering and uncertain, from an age of private and commercial patronage into an age of State patronage—are being slowly forged; the material or technical instrument for their solution—a fairly advanced scientific industrialism—is emerging. Neither the administrative instrument—the Socialist State—nor the technical instrument—Industry—have yet worked together under anything approaching stable economic conditions, let alone prosperity. When they do, almost anything may happen.

SIX VIEWS OF THE FUTURE

In a hazy, groping way, we can make some rough picture under six headings, of the kind of world in which our young architect may find himself.

First: It is an age which already regards a large part of nearly all its cities as outworn, and has begun their replanning. The actual building programme, therefore, of the next half century, must be enormous.

Second: The architect, more and more, will be playing a minor role in big affairs rather than being, as in the past, the sole master of small ones. That much discussed item—the “team”—is already, at Harlow, Hertford, Peterloo, and elsewhere, a potent reality. The small one-man office will, of course, go on—especially in country towns where his knowledge and attachment to rural traditions will be invaluable.

Third: We must expect, more and more, to see building processes pushed back from

the site into the factory. This means that the architect, if he is to be master of his job, must understand—at least in principle—the industrial operation and the relationship of an accurate working drawing to precision machinery.

Fourth: Before the nineteenth century architecture was sculptural; now the beauty of life and building must take other forms—forms born of our philosophy and for which quite self-consciously we have to find the source in our own building technique. Such forms are very tentatively showing themselves in scientific structure, such as shell-concrete. All this will involve the study of industrial and scientific forms in the light of aesthetics.

Fifth: I admit, and indeed want to emphasize, that this sort of future may come perilously near to being a Wellsian nightmare, the vilest sort of scientific Utopia come true, inhabited only by barbarian technicians. The artist, and the architect in particular, can save it from that. We can still have our Saturday afternoons off with Shariwaggi, the Regency gardeners or the lighter Victoriana, but on the whole that has gone on long enough, for there is a very big architectural job ahead.

Sixth: The falsity of nearly all Utopias is that they are self-contained worlds, in a vacuum, having neither past nor future. I have tried to make my world grow out of scientific and political trends; any vision of the future must do this and must also carry over into the future a great deal of the past and present. It is already the middle of the twentieth century, and yet our visual world—whether of hedgerows or buildings—is mainly of the eighteenth and nineteenth centuries. The tempo of history gets faster and faster and perhaps by the year 2000 not more than about half London will still be Victorian. This may be a gain, but it has its dangers.

If I am right about the years to come, about a new creative society with a new scientific technique, then what is its concern with this inheritance? To such a society can this inheritance ever be anything more than the charming and lovely relics of dead or dying cultures? There are two answers. One is that Soviet architecture and the art of the Consulate and the First Empire both show how a people who have suffered great fluctuations in their social system, may revert nostalgically and sometimes naively to historical art forms, realizing too late that they have thrown out a healthy aesthetic baby with the bourgeois bathwater. That won't happen here; we have had our plethora of eclecticism. Our problem will be to so saturate ourselves in the nobility of our inheritance that we may give new nobility to new forms.

THE EFFECT ON THE SCHOOL

There then for what it is worth, in twentieth century terms, is a rough picture of a new creative society. What, for a hypothetical School of Architecture in, say, the years 1950-1960, it is likely to mean? It can mean so many things that it immediately becomes necessary to assure you that in such a School of Architecture quite a lot of time will have to be given to architecture.

Since the architect is to be a key figure in that society, as the engineer and the scientist were before him, our first duty is to see that the architect shall be an educated being—product of his times, aware of his times, out always a little above the level of his times, creative and self-critical.

All this means that we shall have to do some drastic thinking about architecture itself. One of the AA's best contributions to design has been the school programme with the real site and, often, the real client. But planning in theory must find a place, and the working drawing standard raised.

Of the teaching of architectural history I don't think I need say very much. I have tried to give some picture of what I think a new age—sophisticated, socialist, scientific—will have to feel about its traditions and its inheritance, if it is to save its soul alive. It is in the understanding of the kind of thinking that has given birth to certain forms, that the main value of history may lie. History will also give us, as always, our elementary lessons in the combination of function and aesthetics on architecture. It is in the ability to transfer such qualities to new patterns of living and to new techniques that our problem lies. So far, solutions have been only partial, and will be until we produce an artist who realizes that his medium is industrial plant, site work and the administration of specialists. How far, within the team, there will be further specialization into planners, administrators, draughtsmen, etc., and how far such specialization should be recognized at the educational level is something that needs most careful study and can probably only emerge through experience.

PRACTICAL TRAINING

Therefore the student, given a sense of his inheritance and of three dimensional planning, is concerned with the office, the site, the factory and the rural scene. The President of the RIBA has pledged himself to help in starting a system whereby every student shall be the adopted child of some office, with access both to drawings and to the site, making a general nuisance of himself every vacation, but really seeing for himself the full relationship of drawing-board to job. I think six months in an office should be compulsory before the award of the Diploma if only to make clear that the School Course alone never was, nor can be, a complete training in itself.

I would also like to see every student, for at least the equivalent of one term in the senior school, doing one of two things, or a combination of both: one, working and observing on the site of a big job or a succession of smaller jobs; two, working and observing for a week or more in each of a succession of factories. During these weeks they would remain students of the AA, supervised by and reporting back to one of the staff. Only in some such way can we begin to learn the necessary technique from which the new aesthetic must spring. I said that I would come back to the question of the very special place that direct creative work with his own hands must occupy in the training of the young architect. In making models, and—in three dimensions—simple objects that he has drawn in two dimensions, work on the bench, and the handling of various materials, can be of untold value. We can't and shouldn't rival the workshops of the Royal College of Art, but practical work in a simply equipped studio might well become our “Junior Bauhaus.”

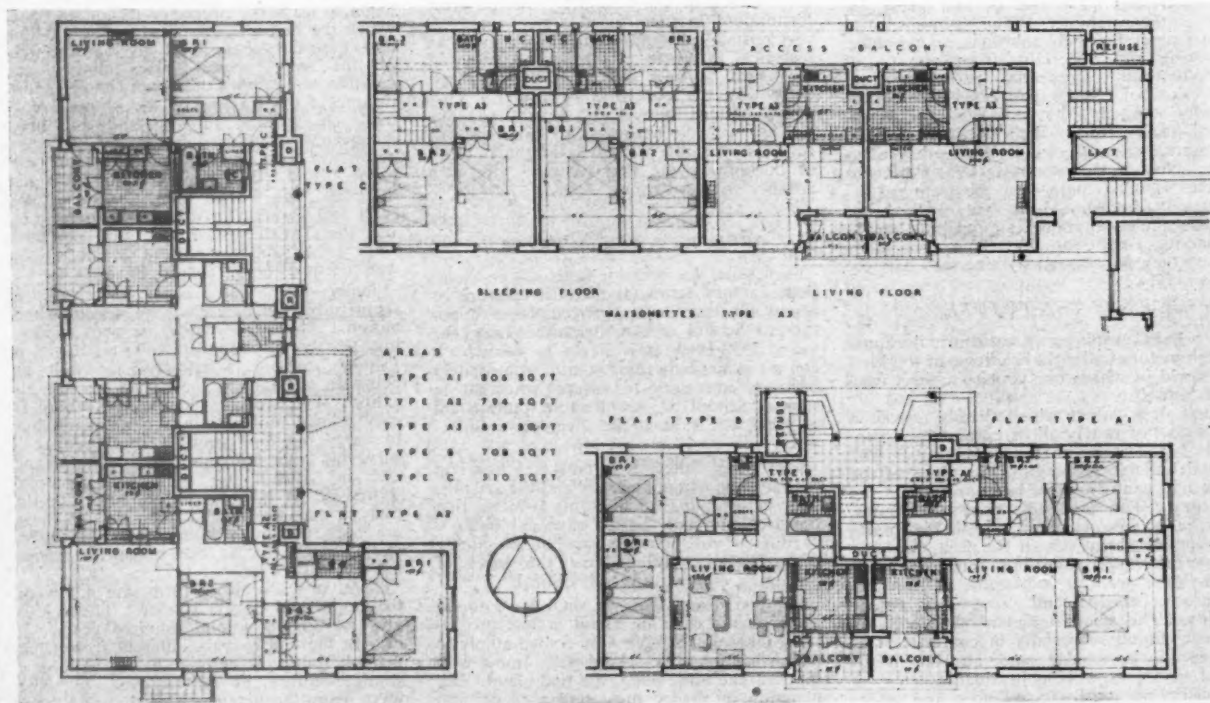
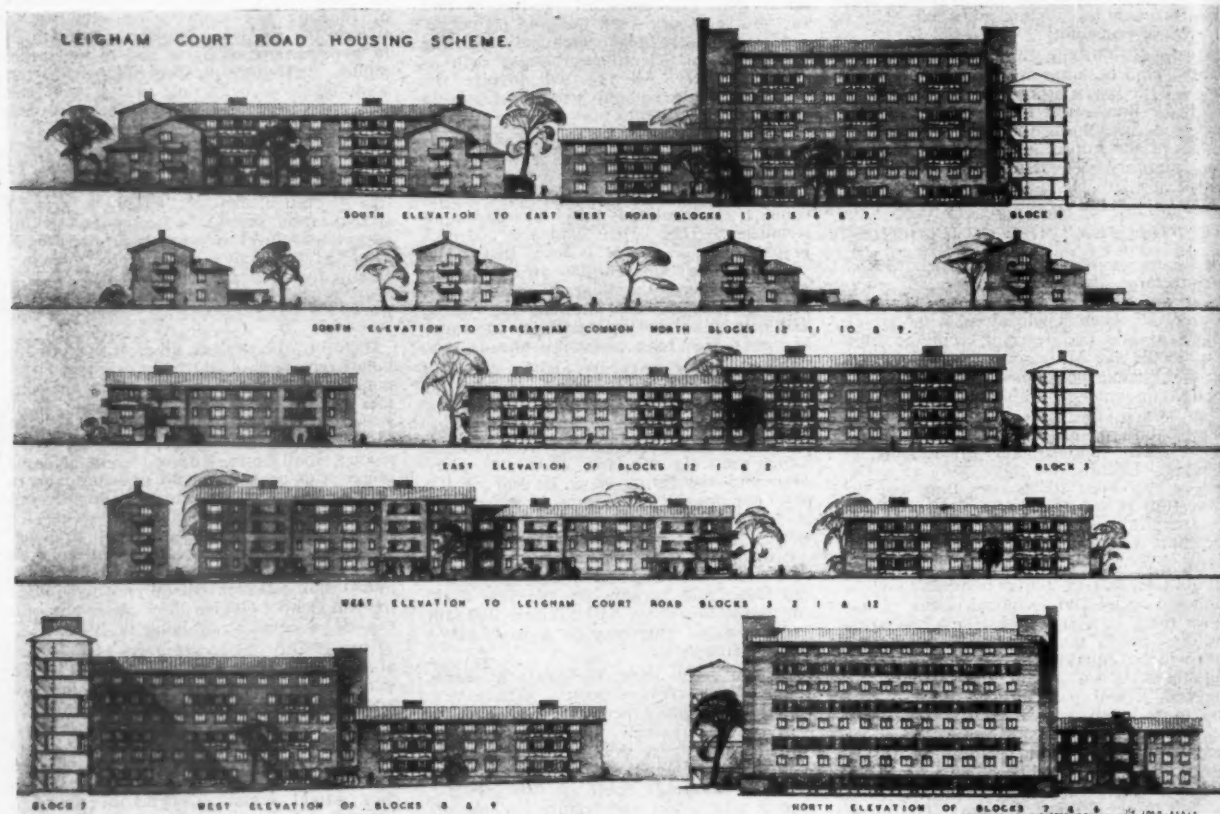
Finally—the rural scene. We are a shamefully urbanized profession—and nation. That is a reality we work under, but clearly Gordon Brown's vision of a Country School is attractive as well as being an antidote to that excessive urbanization. For students now in the school it may or may not remain a pipe-dream; but to carry out one genuine rural project—surveying and designing in fine landscape and in consultation with local people, should be an item in our training. To do that we needn't buy Blenheim Palace; there are such things as huts, tents and pubs, and it might be an advantage to change the site each year.

There, in a disjointed form, are a few of the hopes and beliefs I offer. The AA is now starting its second hundred years. It may in the end be very different from what I think, but it is certain that it will be a strange century, as far removed, in some ways, from the nineteenth as that was from the fifteenth.

LAMBETH COMPETITION DESIGNS: LEIGHAM COURT ROAD HOUSING SCHEME

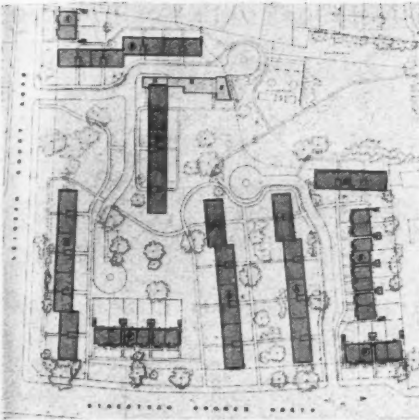
Assessor: C. H. James, R.A.

FIRST PRIZE, £500 : W. F. Howard

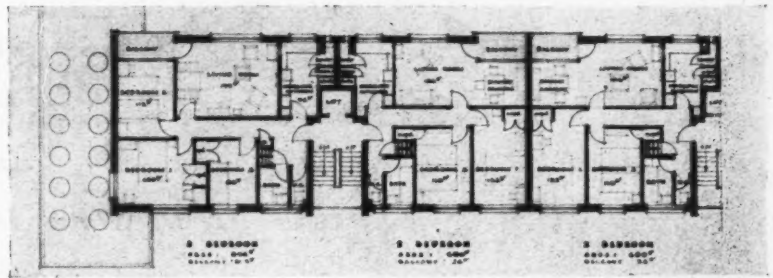


TYPICAL FLAT PLANS

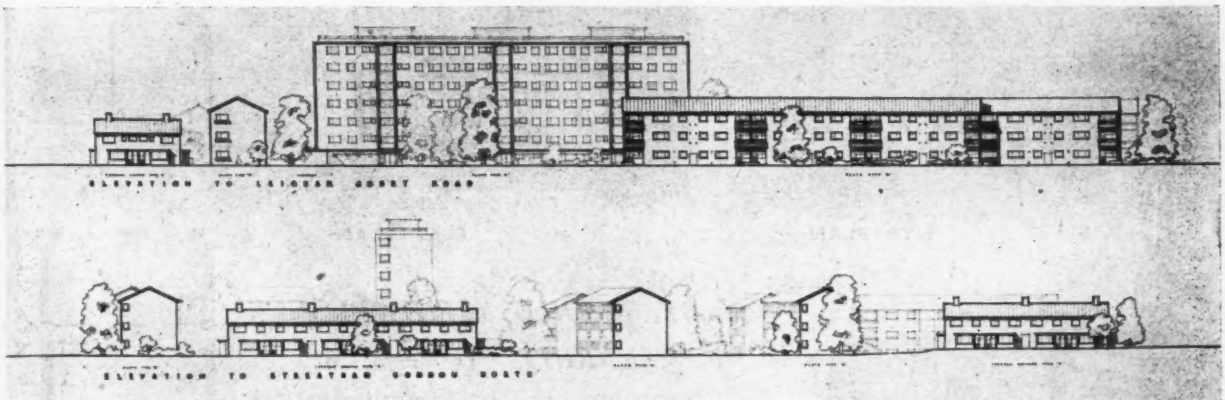
**SECOND PRIZE £200 : J. B. Forrest
& Mrs. Maureen H. Forrest**



SITE PLAN

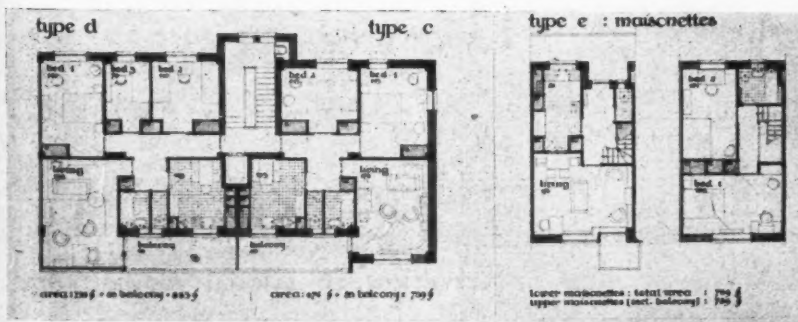


1-7 FLOOR PLANS

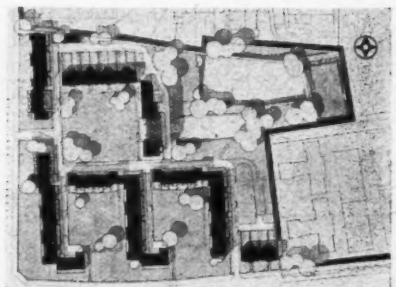


ELEVATION : TOP, LEIGHAM COURT ROAD. ABOVE, STREATHAM COMMON NORTH

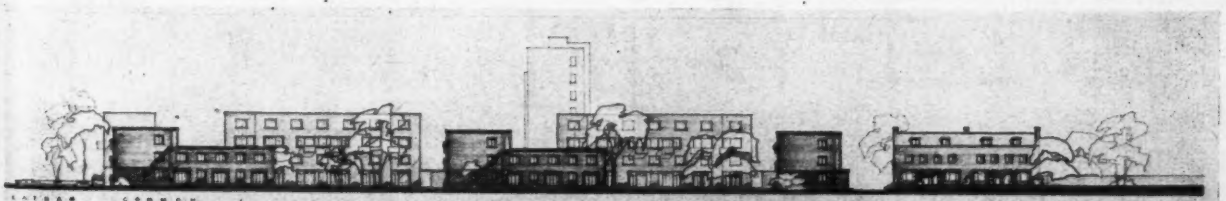
THIRD PRIZE £100 : Gollins Melvin & Partners



LEFT: TWO AND THREE BEDROOM FLATS, RIGHT: TWO BEDROOM MAISONNETTES

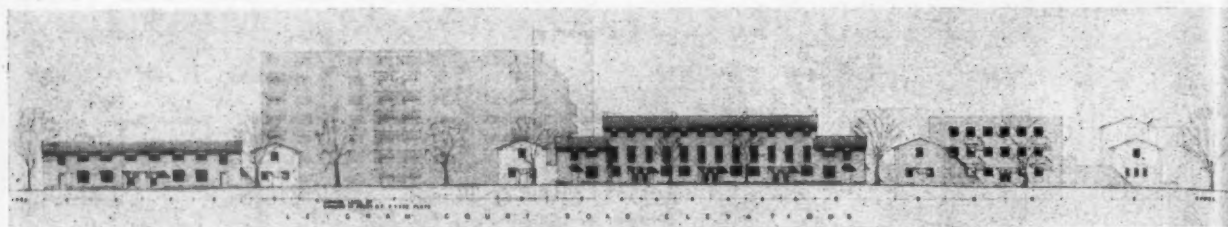


SITE PLAN



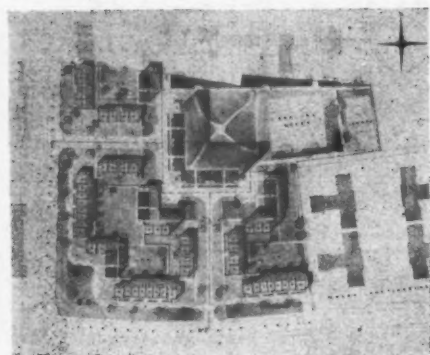
ELEVATION TO STREATHAM COMMON

TWO OF THE HIGHLY COMMENDED DESIGNS

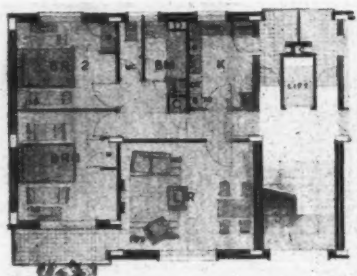


ELEVATION TO LEIGHAM COURT ROAD

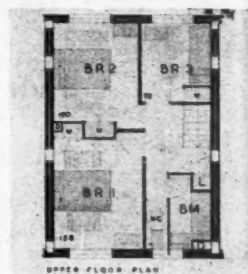
1. BY D. STRATTON DAVIS



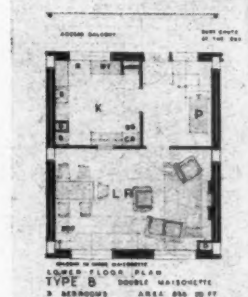
SITE PLAN



FLAT PLAN

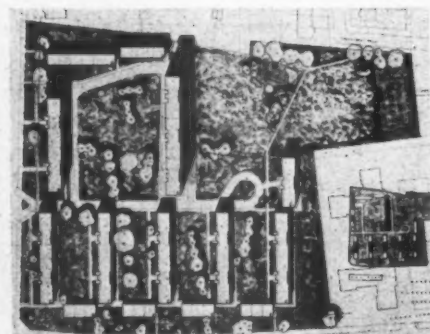


UPPER FLOOR PLAN

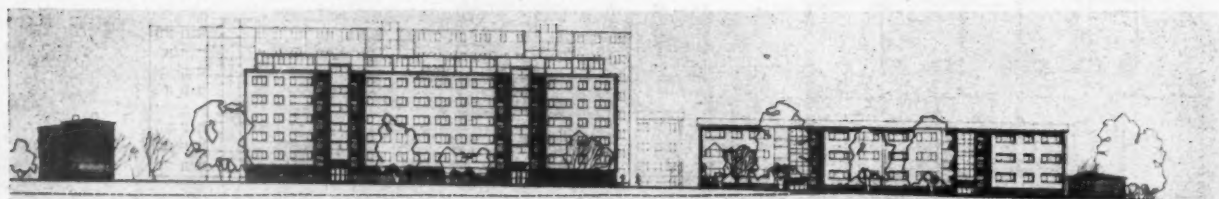


MAISONNETTE PLAN

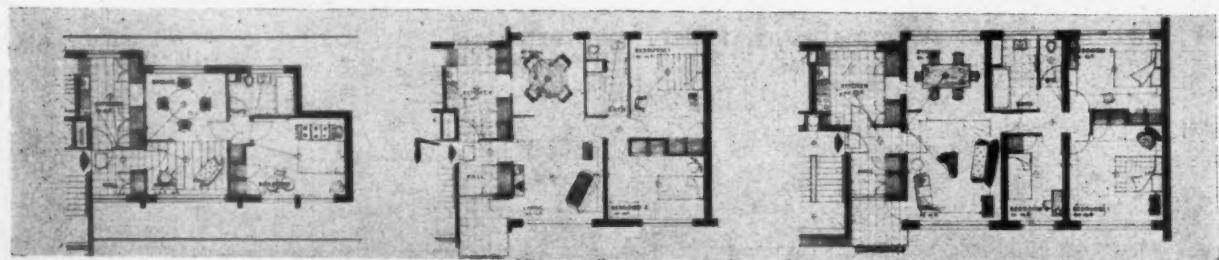
2. BY JOHN D. CORDWELL, F. S. KNIGHT, JUNE S. W. JONES & W. T. MULLINS



SITE PLAN



ELEVATION TO LEIGHAM COURT ROAD

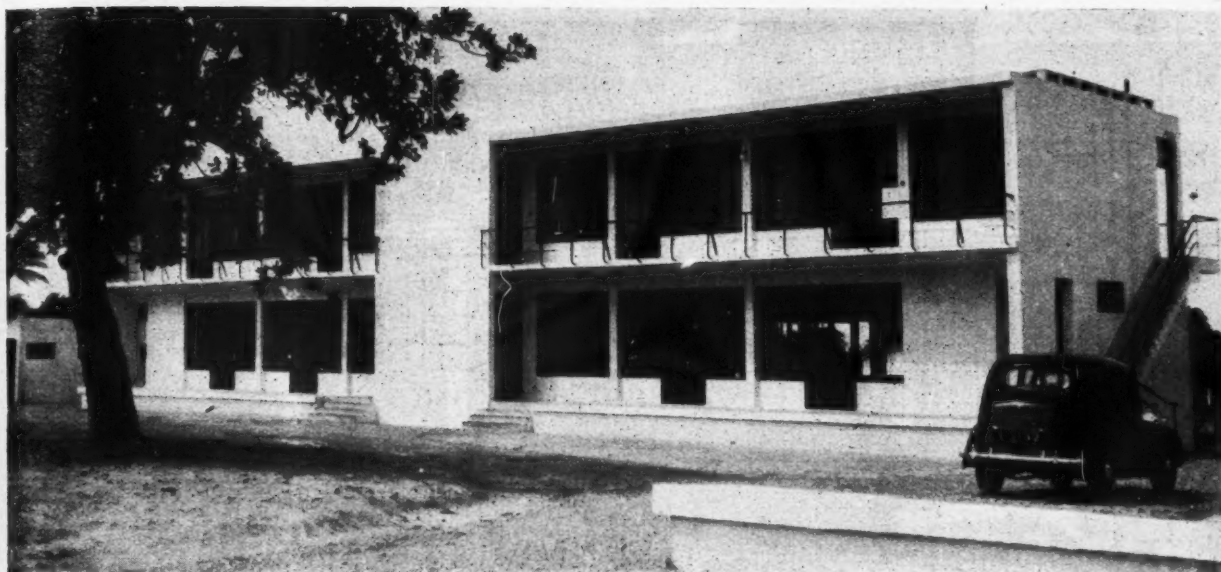


ONE BEDROOM FLAT

TWO BEDROOM FLAT

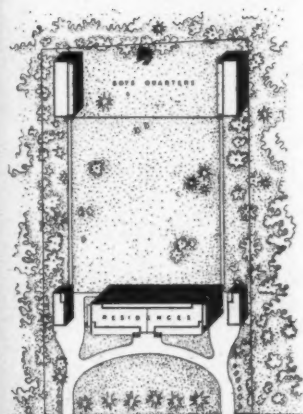
THREE BEDROOM FLAT

LAMBETH HOUSING COMPETITION

*From the south.*

HOUSES AT LAGOS, NIGERIA

BY EDWARD D. MILLS

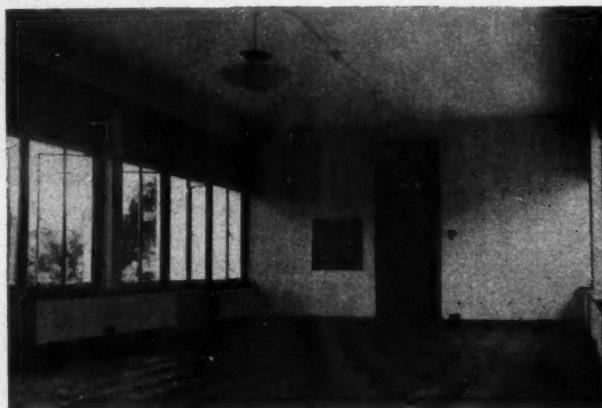


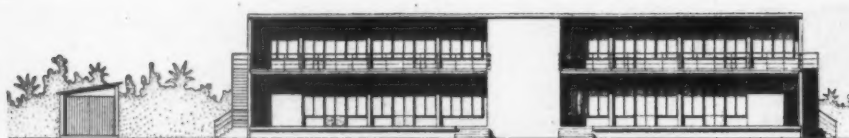
SITE PLAN

GENERAL.—The houses illustrated have been erected at Ikoyi, the residential district on the outskirts of Lagos, Nigeria, for the European staff of May & Baker Ltd. The site is level and the buildings have been designed to take full advantage of the prevailing winds. All rooms open on to deep verandas or terraces on two sides, and to provide permanent ventilation all windows are fitted with louvres at high level. The scheme includes boys' quarters

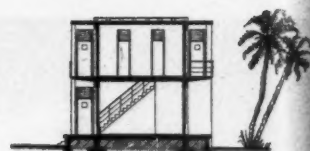
for each of the houses, together with garages and a private sewage disposal plant. To maintain an even temperature within the buildings insulation is provided on the roof by laying light precast units on concrete sleepers above the structural slab, leaving a space between for the free circulation of air. The buildings are raised above the surrounding ground level to comply with local by-laws, and for the same reason no rainwater pipes or gutters are provided.

Below, left, the staircase from the lounge; right, the dining end of the lounge.

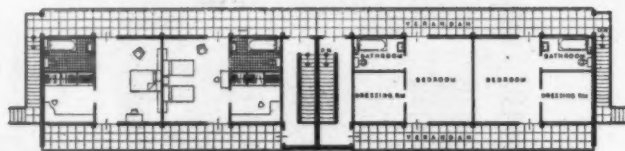




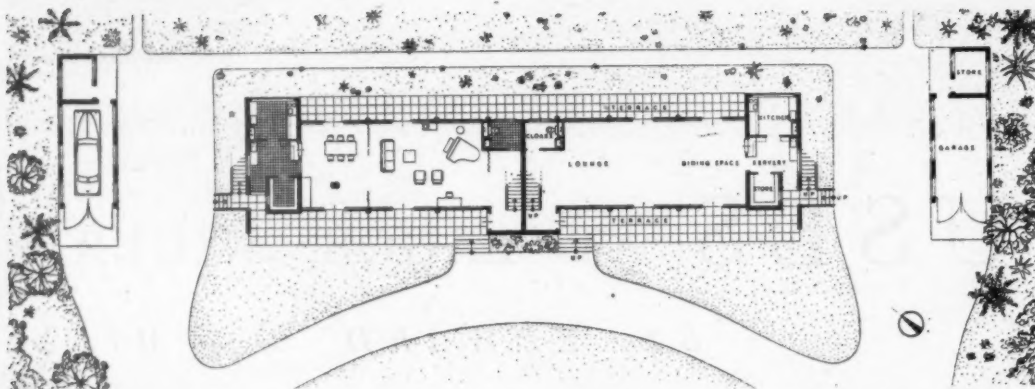
FRONT ELEVATION



CROSS SECTION



FIRST FLOOR PLAN



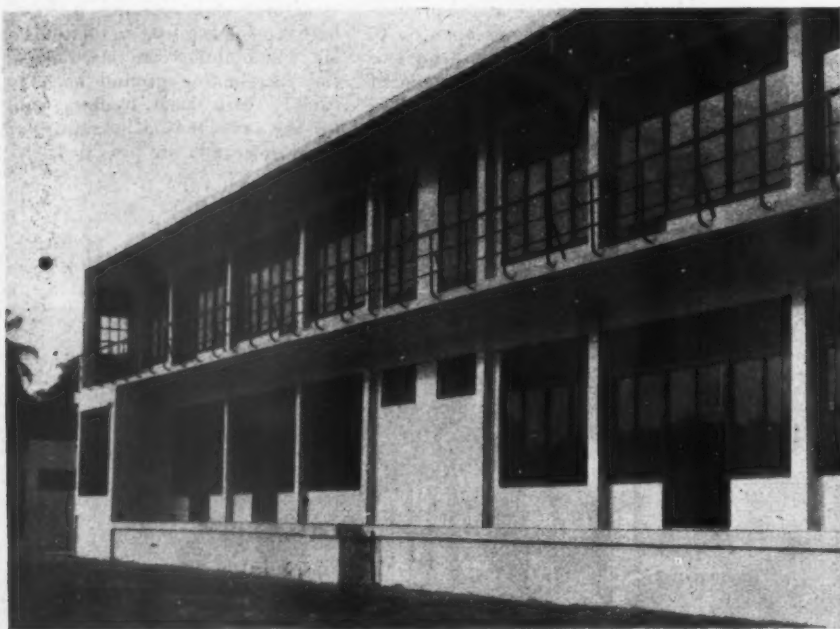
GROUND FLOOR PLAN

(Scale: $\frac{1}{8}'' = 1'0''$)

CONSTRUCTION.—The buildings were constructed with a reinforced concrete frame, reinforced concrete floors and roof

and precast concrete block walls and partitions. All walls were rendered internally and externally with cement and sand in accordance with local practice and finished with white Portland cement paint. Flooring, doors, stairs and other joinery are in iroko, an African hardwood. The windows were specially made of universal steel casement section, and balcony and staircase hand-rails are welded wrought iron tubing.

From the north.



SERVICES.—Electricity is provided for lighting and cooking and there are electric ceiling fans in all principal rooms. Hot water is provided by electric thermal storage heaters. All internal pipework is carried in concealed accessible ducts.

The work was carried out entirely by native craftsmen under the supervision of the general contractors, H. E. B. Greene & Co., Ltd., of Liverpool. Apart from the timber and the concrete aggregates, all materials and fittings were supplied from Great Britain.

HOUSES AT LAGOS : BY EDWARD D. MILLS



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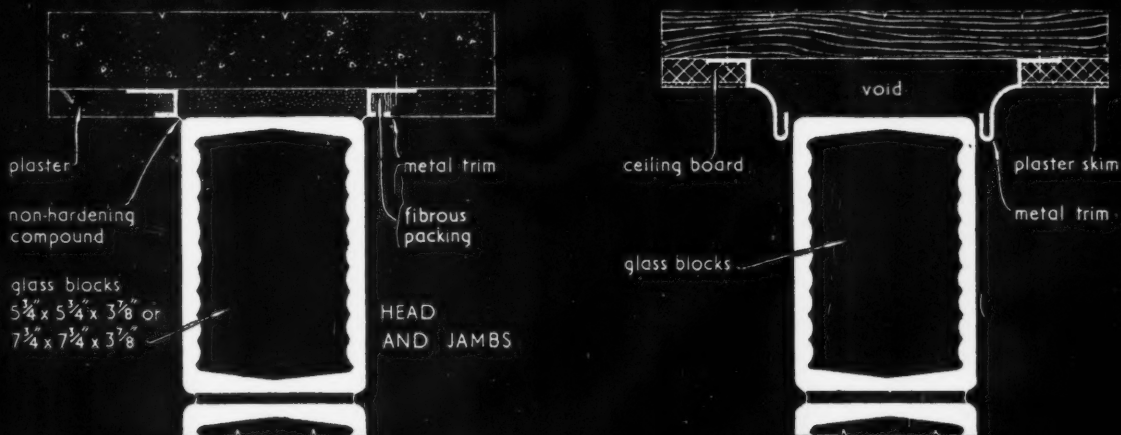
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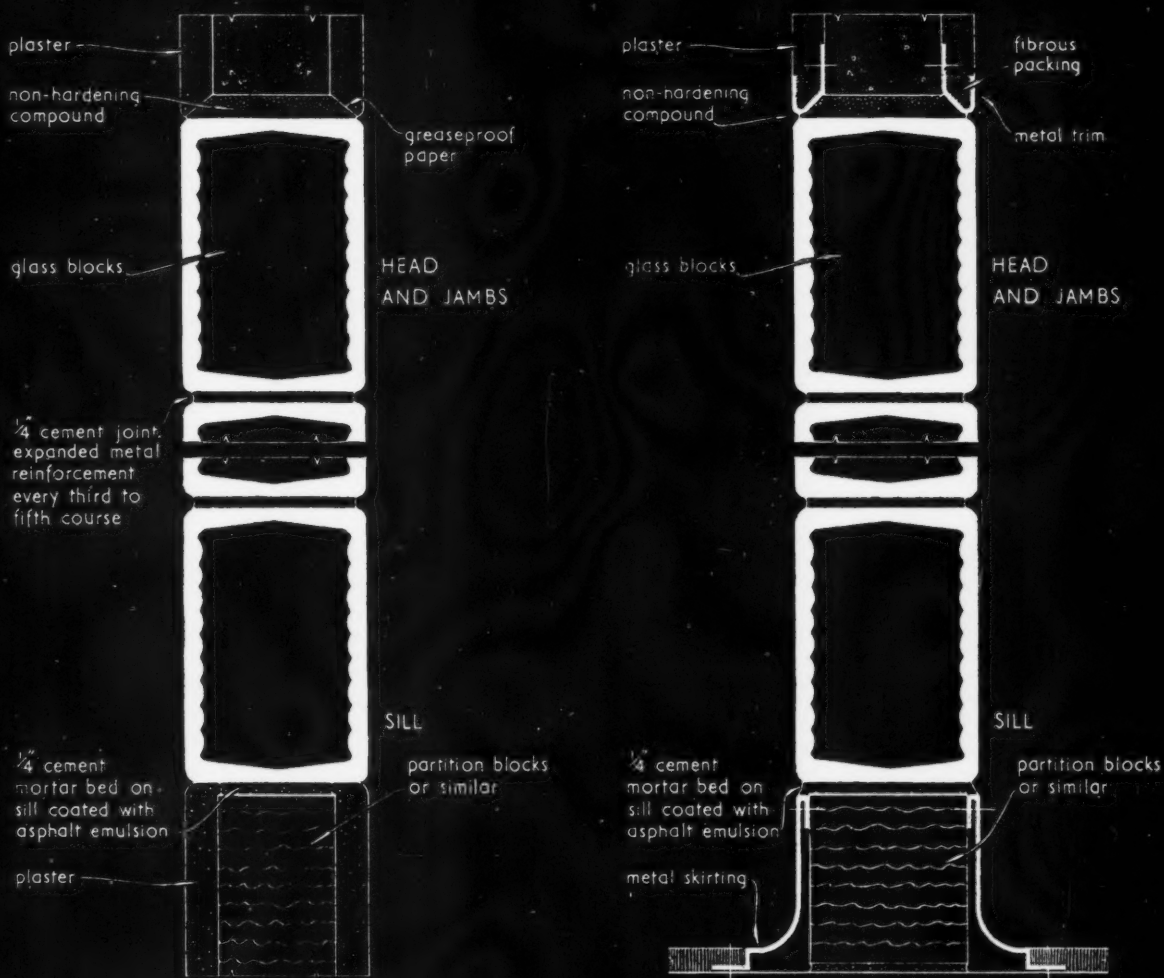
L S

BUILDING BLOCKS | GLASS | APPLICATIONS

The Architects' Journal Library of Information Sheets 141 Editor: Cotterell Butler, A.R.I.B.A.

14.N5**14.N5**

TYPICAL FIXING DETAILS WHERE BLOCKS ABUT TO CEILING OR WALL.



TYPICAL FIXING DETAILS FOR FLUSH PARTITIONS.

OPTIONAL METHODS OF CONSTRUCTION OF INSULIGHT HOLLOW GLASS BLOCK INTERNAL PANELS I.

Manufactured by Pilkington Brothers Limited.

14.N5 INSULIGHT HOLLOW GLASS BLOCKS: INTERNAL PANELS 1.

This Sheet is the first of two describing the construction of internal panels using hollow glass blocks. It illustrates a number of methods of detailing partitions constructed entirely of glass blocks and partitions of glass blocks combined with solid partition blocks. Sheet 14.N6 describes glass block internal panels in brickwork.

Construction

The construction of internal hollow glass block panels is similar to that of external panels except that no recess is necessary at the sides and heads of openings to deal with wind pressure.

The illustrations cover both simple jointing arrangements (leaving the mastic exposed, and covering the mastic by plaster) and other arrangements using metal trim. In all circumstances the primary consideration is to avoid any solid structural material coming in direct contact with or bearing upon the glass blocks.

Panel Sizes

Insulight hollow glass blocks are non-loadbearing units and, although they will carry their own weight safely up to a reasonable height, it is necessary to put intermediate support in panels where the height is more than 20 ft., the width more than 20 ft. or the area more than 120 ft. super. In certain cases these dimensions may be exceeded, and the manufacturers will advise.

Fixing

Treatment at sill: Before the bottom course is laid, the sill should be coated with an asphalt emulsion or similar material, and the blocks then bedded with mortar, as specified below, so as to allow for slight movement without disrupting the mortar bed.

Treatment at head and jambs: In all panels, the head and sides must be built free of the main structure—except for the reinforcement—to prevent panels being subjected to strains due to settlement, building load, or expansion. A $\frac{1}{2}$ in. clearance should be provided above and at the sides of panels and filled with a non-hardening compound. In cases where intermediate support or structural dividing members are introduced into panels, the glass blocks must be isolated by clearance joints.

Reinforcement: Reinforcing strips should be built into every third to every fifth course dependent on the size and position of the panel. The ends should pass through the clearance joint and be secured to

the main structure. Such a material as "Exmet" $2\frac{1}{2}$ in. wide No. 20 gauge expanded metal has been found suitable for this purpose.

Covering joints: Since in internal panels it is unnecessary to include a recess at head and jambs, light pressed steel or aluminium trimming sections may be used where it is required to seal off the non-hardening compound, as shown on the face of this Sheet. Such sections should be packed with newspaper or fibre to prevent the plaster packing tightly into the section and forming a non-resilient joint above the block. As an alternative to metal trim strips of waxed or greaseproof paper may be inserted to prevent the non-hardening compound staining the plaster. This arrangement is satisfactory and less expensive but requires careful fitting.

Bedding and pointing: As glass blocks are non-absorbent, a fairly dry and fatty mortar should be used. A suitable mix is one part Portland cement, one part hydrated lime (preferably lime putty) and four parts of sand by volume. Clean builders' sand free from gravel (not sea sand) should be used. The face of the joints may be struck back and smoothed during erection. If coloured joints are required they may either be picked out in colour by painting after the mortar is thoroughly dry, or raked out at the time of erection and later pointed with coloured cement. The pointing may be of any form or finish; a keyed joint formed with a curved jointing tool is the normal one.

Doorways, Windows and Ventilators

Small windows and ventilators may be inset in panels. Doors and larger windows require special treatment. This subject is dealt with on Sheet 14.N7.

Further Information

The Manufacturers maintain a Technical Research and Information Bureau which is available to answer questions and advise on technical problems dealing with this subject generally.

Compiled from information supplied by:

Pilkington Brothers, Ltd.

Head Office: St. Helens, Lancashire.

Telephone: St. Helens 4001.

London Office: 63, Piccadilly, W.1.

Telephone: Regent 4281.

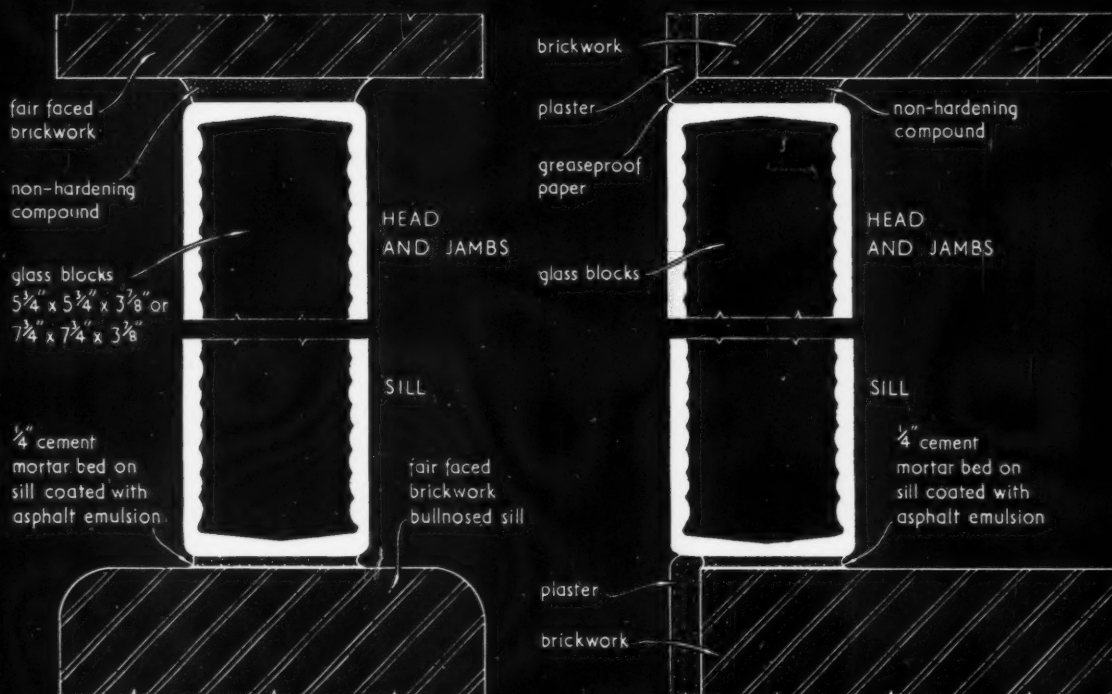
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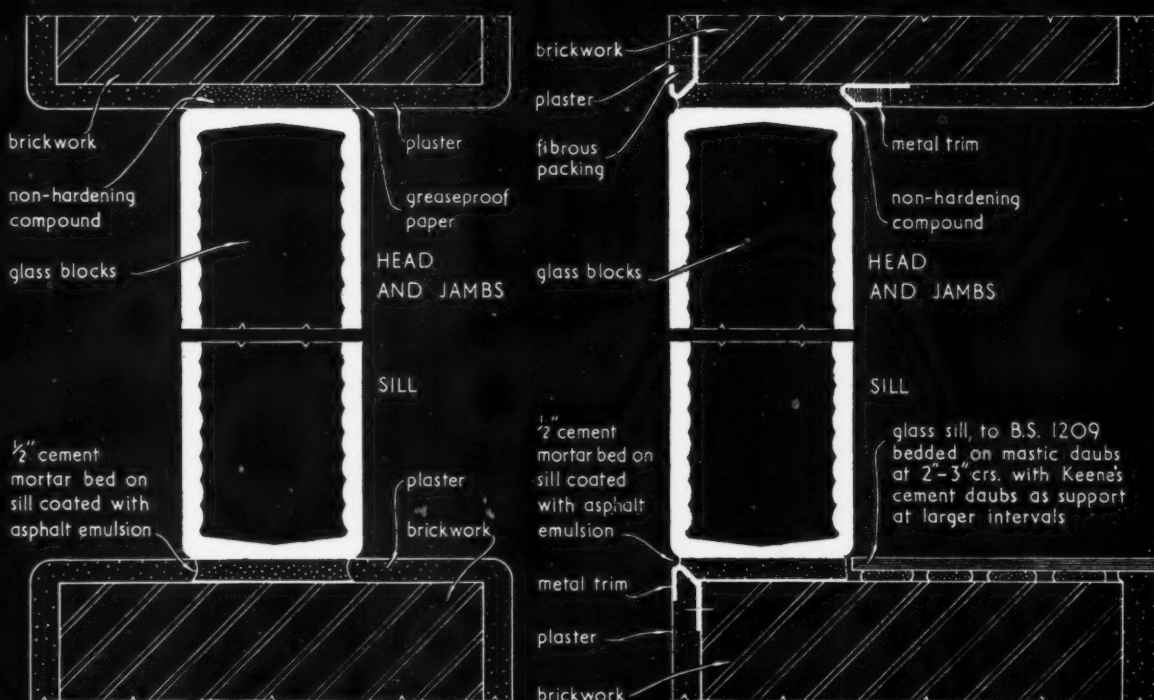
BUILDING BLOCKS | GLASS | APPLICATIONS

14.N6

The Architects' Journal Library of Information Sheets 142. Editor: Cotterell Butler, A.R.I.B.A.



TYPICAL DETAILS OF FIXING TO FAIR FACED BRICKWORK.



TYPICAL DETAILS OF FIXING TO RENDERED BRICKWORK.

14.N6 INSULIGHT HOLLOW GLASS BLOCKS: INTERNAL PANELS 2.

This Sheet is the second of two describing the construction of internal panels using hollow glass blocks. It describes glass block internal panels in brickwork. Sheet 14.N5 illustrates a number of methods of detailing partitions constructed entirely of glass blocks and partitions of glass blocks combined with solid partition blocks.

Construction

The construction of internal hollow glass block panels is similar to that of external panels except that no recess is necessary at the sides and heads of openings to deal with wind pressure.

The illustrations cover both simple jointing arrangements (leaving the mastic exposed, and covering the mastic by plaster) and other arrangements using metal trim. In all circumstances the primary consideration is to avoid any solid structural material coming in direct contact with or bearing upon the glass blocks.

Panel Sizes

Insulight hollow glass blocks are non-loadbearing units and, although they will carry their own weight safely up to a reasonable height, it is necessary to put intermediate support in panels where the height is more than 20 ft., the width more than 20 ft. or the area more than 120 ft. super. In certain cases these dimensions may be exceeded, and the manufacturers will advise.

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Treatment at sill: Before the bottom course is laid, the sill should be coated with an asphalt emulsion or similar material, and the blocks then bedded with mortar, as specified below, so as to allow for slight movement without disrupting the mortar bed.

Treatment at head and jambs: In all panels, the head and sides must be built free of the main structure—except for the reinforcement—to prevent panels being subjected to strains due to settlement, building load, or expansion. A $\frac{1}{2}$ in. clearance should be provided above and at the sides of panels and filled with a non-hardening compound. In cases where intermediate support or structural dividing members are introduced into panels, the glass blocks must be isolated by clearance joints.

Reinforcement: Reinforcing strips should be built into every third to every fifth course dependent on the size and position of the panel. The ends should pass through the clearance joint and be secured to

the main structure. Such a material as "Exmet" $2\frac{1}{2}$ in. wide No. 20 gauge expanded metal has been found suitable for this purpose.

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Bedding and pointing: As glass blocks are non-absorbent, a fairly dry and fatty mortar should be used. A suitable mix is one part Portland cement, one part hydrated lime (preferably lime putty) and four parts of sand by volume. Clean builders' sand free from gravel (not sea sand) should be used. The face of the joints may be struck back and smoothed during erection. If coloured joints are required they may either be picked out in colour by painting after the mortar is thoroughly dry, or raked out at the time of erection and later pointed with coloured cement. The pointing may be of any form or finish; a keyed joint formed with a curved jointing tool is the normal one.

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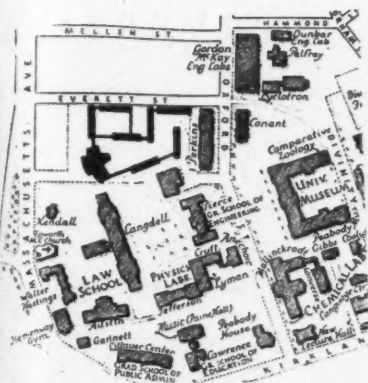
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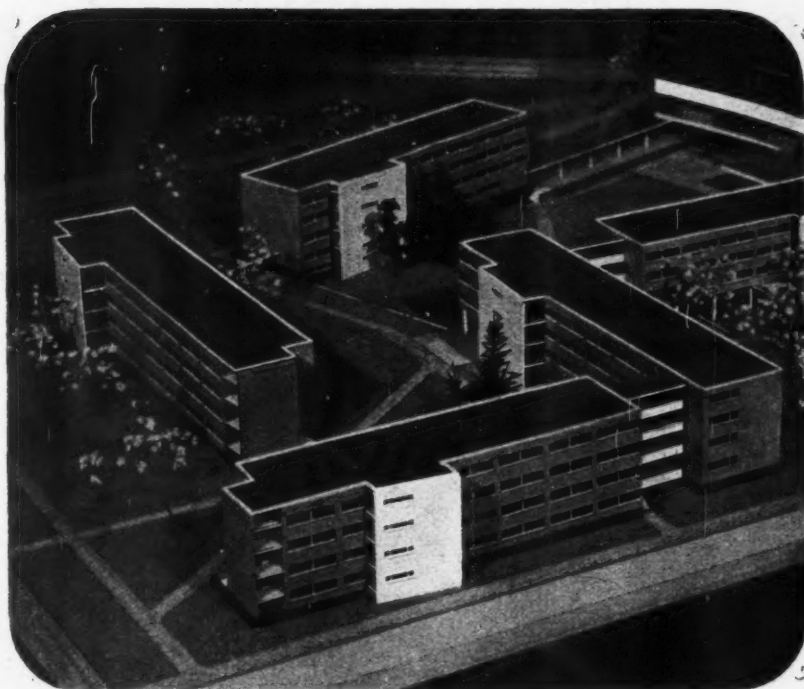
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SITE PLAN

Right, from the north-east;
below, from the south-east.



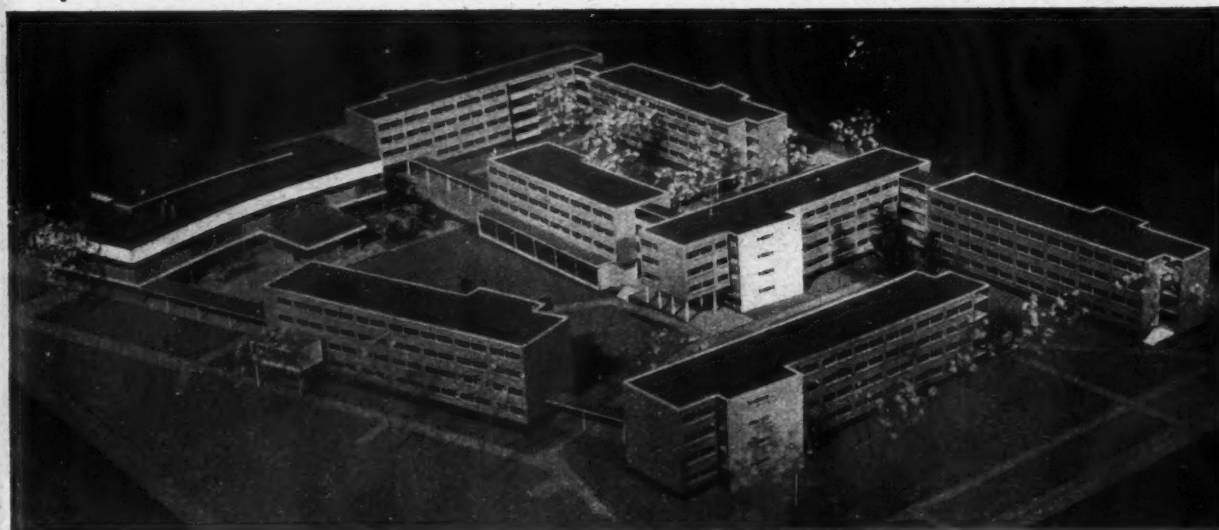
DORMITORIES FOR HARVARD UNIVERSITY, USA

DESIGNED BY
WALTER GROPIUS
AND THE ARCHITECTS
COLLABORATIVE

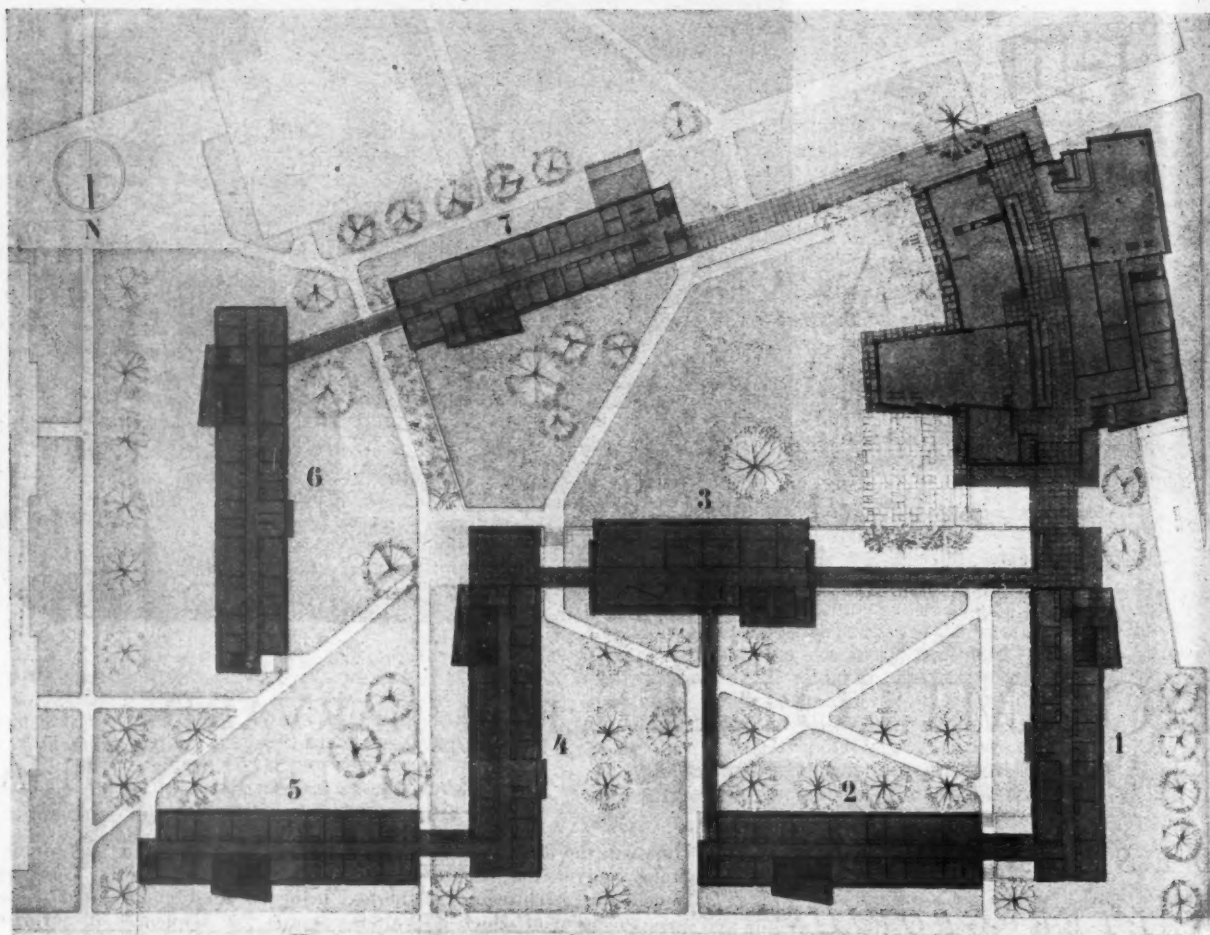
Harvard, the oldest of the United States universities, has commissioned the Architects Collaborative, the head of which is Walter Gropius, to build an extension to house the increasing number of post-war students. The Collaborative have designed a group of seven dormitories, all linked by covered walks to a community centre which contains a cafeteria, and several lounges. The buildings are to be of concrete, faced

with a buff-coloured cast stone, and Gropius describes them as being so sited and related as to create "a sequence of surprise effects in space."

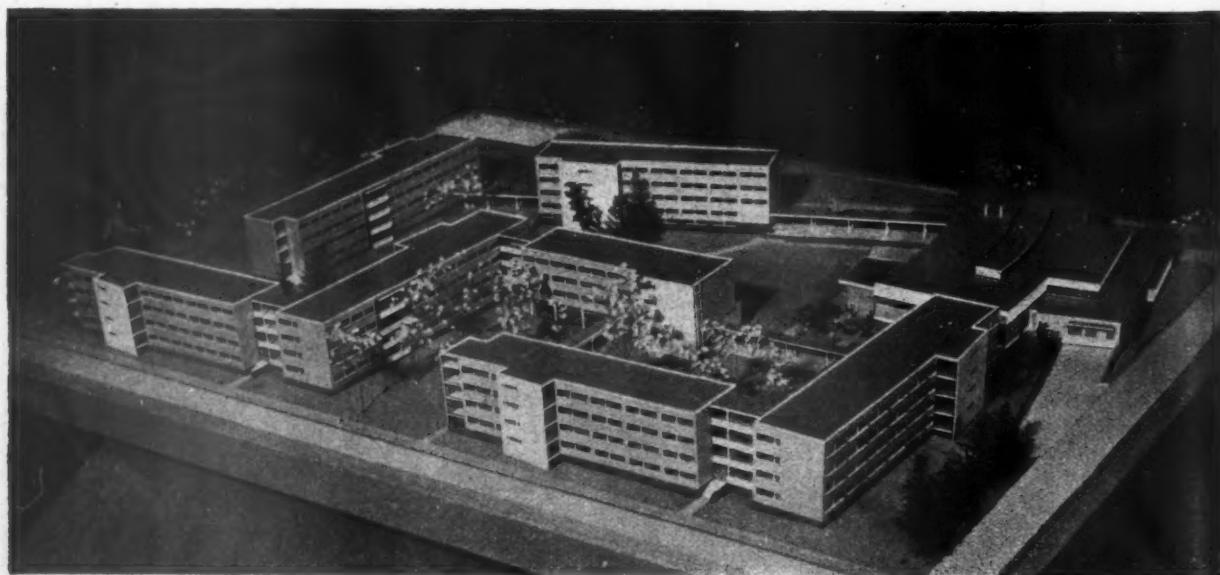
Each room in the dormitories is 18 ft. wide, the size of the structural bay, and contains two students. A curtain divides the room, and the door is flanked by cupboards the full height of the room. The total cost of the project will be about \$3 million.



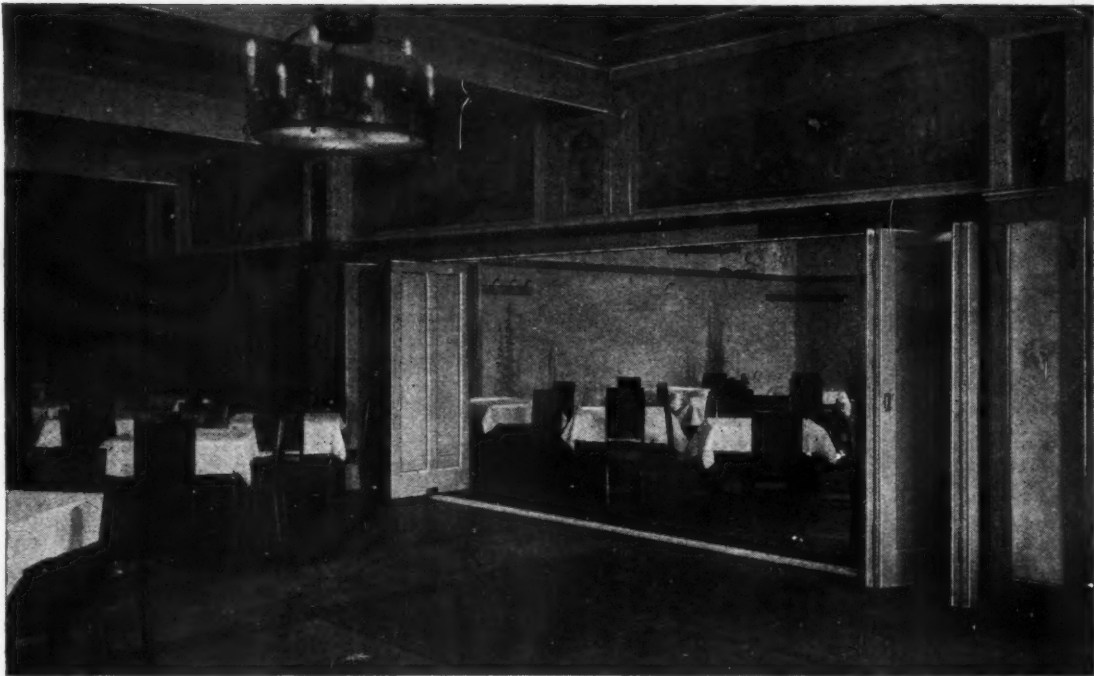
DORMITORIES FOR HARVARD UNIVERSITY



Above, the plan, showing the seven dormitories, numbered, and in the top right-hand corner the common rooms. Below, the model from the north-west.



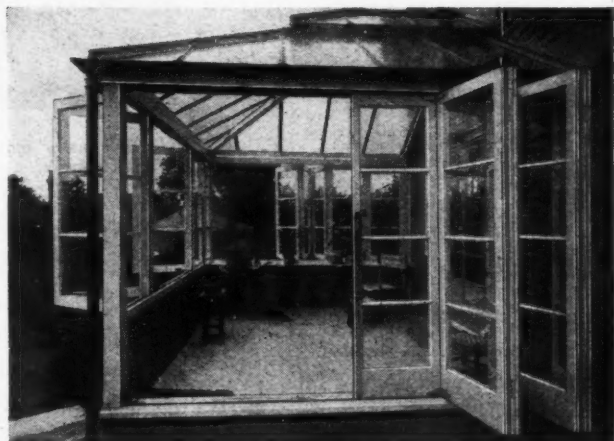
DESIGNED BY WALTER GROPIUS



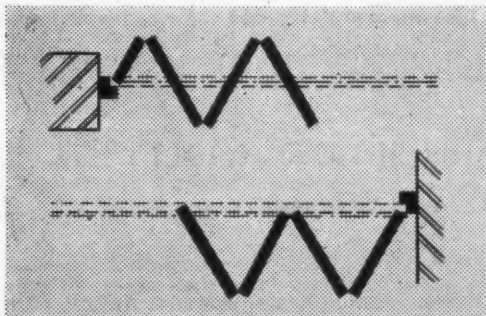
Restaurant Screen with weight taken on ground

ON THE GROUND—OR OVERHEAD?

There are four main types of Henderson Folding Partition and Window Gear, each designed to suit particular circumstances. In some cases the weight can be taken from above, in others it must be taken on the ground or cill. Every enquiry is carefully studied, and our Drawing Office service and trained technical representatives are freely available to ensure that the correct gear is accurately prepared for each job. Thus any competent joiner can then make and erect. Architects have specified Henderson Folding Partition Gear with confidence for over twenty-five years—with the result that it can be seen today in famous buildings throughout the country. *Catalogue No. 48 contains diagrams, photographs and complete specification data.*



Verandah doors and windows with weight taken overhead



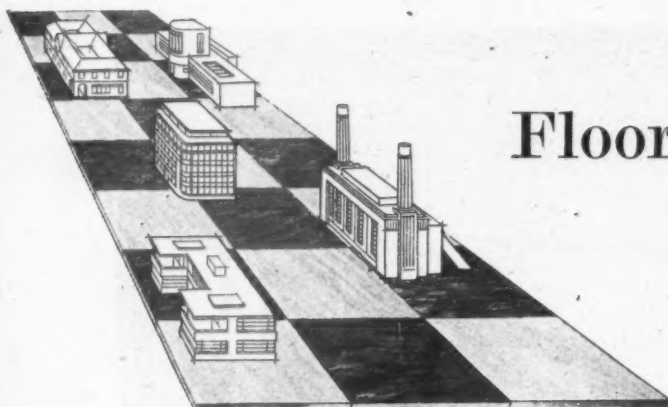
Henderson
SLIDING DOOR GEAR



for any Door, Partition or Window that slides or folds

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H24



Floors Surfaced with Decorative Tiles

NO FLOORING SURFACE is ideally suited to all conditions of use. But Semastic Decorative Tiles do provide a combination of desirable qualities (resilience, toughness, pleasant appearance, ease of cleaning) in a decorative flooring material that is low in price, in free supply on the home market, and available in a range of colours wide enough to harmonise with almost any decorative scheme.

These tiles are laid only by Semtex Limited or by specialist contractors approved by this Company.

SEMASTIC DECORATIVE TILES can be laid over any rigid sub-floor. Should the surface of the sub-floor be unduly rough or worn it can be levelled up by the Company with a fleximer underlay.

SEMASTIC DECORATIVE TILES are not to be considered as a damp-proof course, but their resistance to damp enables them to be used successfully in basement rooms and similar locations on concrete in direct contact with earth.

DAMAGE FROM ACCIDENT or misuse can easily be repaired by lifting the particular tile or tiles affected and replacing. Areas subjected to particularly heavy wear can be renewed without producing the unpleasant effect of patching.

SEMASTIC DECORATIVE TILES are produced by a process which subjects the material to great heat and



The illustration shows Semastic Decorative Tiles installed by Semtex Ltd. in the entrance foyer of Convoys Ltd., "News of the World" building, Bouverie Street. (Architect: Mr. Leslie Twigg, F.R.I.B.A.). Other recent examples of this type of flooring are to be found in the Administrative Building, B.O.A.C. at Brentford, British Nylon Spinners Ltd., Pontypool and I.C.I. Research Laboratories, Blackley, Manchester.

pressure. Pigment and 'marbling' pervade the full thickness of the tile. Made in two thicknesses— $\frac{1}{8}$ " and $\frac{3}{16}$ "—the latter for heavy duty—they give lasting service and remain pleasant to look at with a minimum of maintenance. They are highly resistant to staining, are not charred by lighted cigarette ends, and keep their original colour.

These tiles are sympathetic to the tread and provide a degree of warmth that makes them particularly comfortable to live with.

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A Dunlop Company

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For a list of the branch offices of Semtex Limited and the addresses of the contractors approved to lay Semastic Decorative Tiles, see Page 16

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.

2.71 planning: general NEW TOWNS

Planning and Development of a New Town. K. M. Beer. (Surveyor, Nov. 26, 1948. p. 631.)

General outline of planning problems and requirements in relation to new towns under 1946 legislation. Restatement and summary of already known planning factors with particular reference to site selection from engineer's point of view.

2.72 planning: general INDUSTRIAL LOCATION

National Security Factors in Industrial Location. National Securities Resources Board. (US Government Printing Office, Washington, USA, 1948. 15 cents.)

Illustrated booklet discussing strategic significance of industrial location in event of war.

Nature of risk accompanying atomic warfare. Strategic vulnerability of existing industrial plants. Some basic factors governing economic evaluation of relocation. Dispersal most practical solution to problem as opposed to underground location.

5.28 planning: public utilities DISTRICT HEATING AND PLANNING

Influence of District Heating on Town Planning. A. E. Margolis (Surveyor, Nov. 19, 1948. p. 615).

Paper presented at recent Public Health and Municipal Engineering Congress. Advantages to be gained from adopting district

heating in urban redevelopment schemes. Long-term planning policy and difficulties encountered in providing for district heating. Economies of co-ordinated heat-electric generation. Informative general statement with emphasis on town planning aspects rather than on technical considerations.

15.44 materials: applied finishes and treatments PAINT

Leaded Zinc Oxide. BS 1481:1948. (British Standards Institution. 2s.)

Specification gives detailed requirements for properties of leaded zinc oxide, together with methods of carrying out tests and description of sampling procedure.

17.45 construction: general MODERN BUILDING TECHNIQUE

New Ways of Building. E. de Maré, Editor. (Architectural Press, 1948. 30s.)

Concise compendium on recent developments in building science and technology. Sections dealing with concrete, steel, timber, glass, brickwork, light metals, plastics and insulation written by well-known specialists. Thoroughly illustrated. Bibliographical references.

Among the many books and pamphlets, official and otherwise, published in recent years and dealing with building science and technology, this book is the first to attempt an easily digestible documentation of available information which is of use both to the practising architect and the student. It consists of a series of informative sections covering the main developments in the field of contemporary building technique and is as such more a reference than a textbook. The excellent diagrams and photographs and the addition of comprehensive lists of bibliographical references to each section stress the reference character. It should be noted that the book takes developments up to the early part of 1947.

The section on *Concrete*, written by K. Hajnal-Kónyi, discusses the chief advances in the design of concrete mixtures with particular reference to the water-cement ratio expressed in terms of weight; the increased use made of lightweight concretes on account of their thermal insulating properties; development of reinforcing materials; methods of making concrete, including vibration, vacuum and Guniting processes, concreting in frost, precast and spun concrete, and steam curing; progress covering, shuttering and surface treatment; principles of structural design; new applications of reinforced concrete in buildings including shell concrete construction; and, lastly, prestressing.

The chapter on *Steel*, written by O. Bondy, is mainly concerned with developments in welding technique, with the qualities of steel today, with broad flange beams, thin sheets, pressed sections and tubular steel, with principles of design for continuity, and with the application of steel in housing.

Progress in the technique of *Timber* construction is discussed by P. O. Reece. The most significant advances in this field were

made in USA during the war years. Particular aspects referred to include stress grading, lamination, plywood construction, timber connections and joints, taking into account adhesive glues, bolted joints and modern connectors.

Developments in *Brickwork* technique are described by W. B. McKay and are concerned with prefabricated brick panel construction, reinforced and rhom brickwork, and new bricklaying plant and equipment to speed up bricklaying by the traditional method.

The increased use made of *Light Metals* is dealt with by P. Scholberg, who refers in particular to the application of aluminium and its alloys to building uses. Short notes on "secondary metal" and magnesium alloys are also provided.

Another section written by the same author describes uses of *Plastics*, production and moulding methods, plastic glues and current developments.

The last chapter of the book, written by C. C. Handisyde, is the only one not dealing with modern building materials and covers the very important technological aspects of *Heat Conservation and Sound Insulation*. It discusses advantages and amount of heat insulation, improved comfort and economy, methods of application and insulating materials, the prevention of condensation and pattern staining and the exclusion of solar heat. Sound insulation methods briefly referred to include insulation by noise reduction at source, insulation by planning, insulation by construction, and reduction of impact noise.

19.56 construction: details ROOF CARPENTRY

Roof Carpentry. George Collins. (The Technical Press Ltd. 2nd Ed. 1948. 6s.)

Intended for craftsmen rather than designers. Appears to concentrate on traditional types, many of which are seldom used now.

21.24 construction: miscellaneous ERECTION OF SKYSCRAPERS

Deft Material Handling in Limited Area Expedited Erection of Skyscraper. Robert McLean. (Eng. News Record [USA], Nov. 11, 1948, pp. 88-91.)

INFORMATION CENTRE INDEX, 1948

An alphabetical index covering items published during the twelve months ended December 31, 1948, is being prepared. Readers who wish to have a copy—it is free of charge—should complete the form below and post it to the Technical Editor, THE ARCHITECTS' JOURNAL, not later than February 21, 1949.

Please send me the Information Centre Index for 1948:—

Name

Address

..... A.J. 3.2.49.

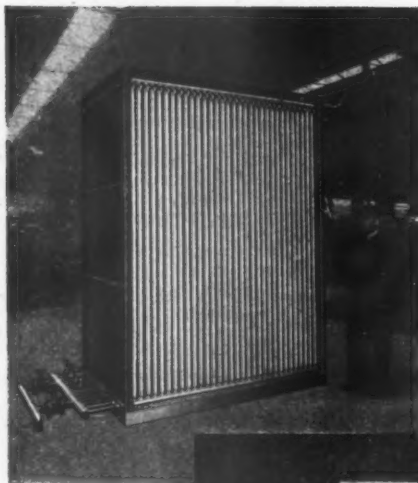
PLANNED HEATING AND VENTILATING

PLENUM HEATERS

The Plenum system of heating and ventilating is used extensively, and where this system

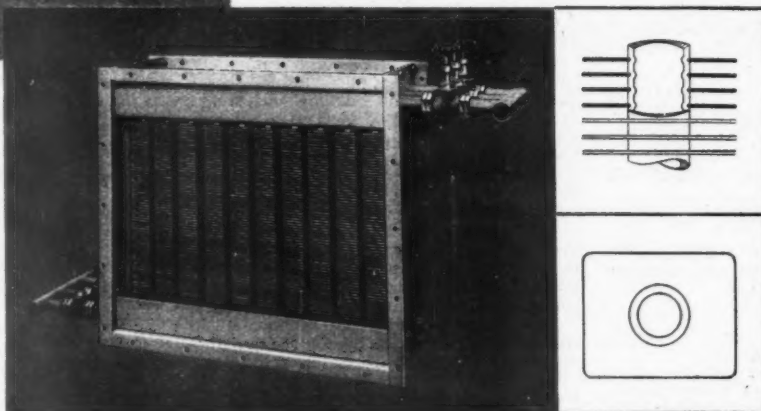
of heating is used, it is desirable to specify Weldex All-Steel All-Welded Heater Batteries as they provide unlimited scope where specialist design and production is required. Weldex Batteries are produced for operation either by steam or hot water. In the Weldex Heater, the medium is passed through the tubes whilst the air is passed over the tubes. The tubes may be plain or gilled but as gilling reduces the over-all cost by some 60 per cent. to 70 per cent., this type of battery is most called for. It is only when very special precautions have to be taken regarding dust and dirt that the plain tube heater is specified. All Weldex Heater Batteries are specially designed to suit the particular conditions, and to enable us to submit tender the following information is required:—

1. Volume or weight of air to be handled per minute or hour.
2. Inlet Air Treatment.
3. Outlet Air Temperature required.
4. Whether any special humidity conditions exist, or are required to exist after heating.
5. Heating Medium.
 - (a) In the case of steam its pressure and conditions, i.e., saturated or superheated.
 - (b) In the case of hot water, the flow and return temperature.



Illustrated are (above) a plain tube heater and (right) a gilled tube heater.

The diagrams illustrate how, in the case of gilled tubes, perfectly flat smooth gills are embedded into the walls of the tube, resulting in great mechanical strength, a high incidence of heat transmission and permanent efficiency.



Weldex HEATERS

FOR SPECIALIST INSTALLATIONS



WELLINGTON TUBE WORKS LTD., GREAT BRIDGE, STAFFORDSHIRE

Details of erection of the 33-storey Esso Building in New York City. Difficulties caused by scarcity in building materials, lack of storage space near the site, heavy traffic on adjoining street, uncertainty of labour supply overcome by careful planning of operations well in advance. About 8,500 tons of structural steel were used.

23.89 heating and ventilation WARM AIR HEATING

"Warmaire" Furnace Development. E. Stockhill and H. J. Hay (Heating and Ventilating Eng., Dec., 1948).

Description of forced warm air heating of small house by "Warmaire" furnace. Suited to various fuels. Cost per week under test with gas firing for heating and hot water to a 960 sq. ft. house was 6s. per week average with gas at 2s. 2d. per 1,000 cu. ft.

The "Warmaire" furnace was developed during the war to solve the problems of heating in air-raid shelters. The inventors have now developed a unit for small house heating. It includes a boiler which can be adapted for burning either gas or various solid fuels. Provision is made for heating domestic hot water and both this and space heating are thermostatically controlled. The air is circulated by a pump which is said to make less noise than a normal domestic refrigerator and the air cleaned by passing through glass silk filters. Full house heating is provided.

In an occupied house of 964 sq. ft. the average running cost over 12 months was 6s. per week for a gas-fired boiler with gas at 2s. 2d. for 1,000 cu. ft. plus 1s. per week meter charge.

The form printed below is to assist readers requiring up-to-date information on building products and services. Complete and post it to The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1, and the advertisers listed will be asked to supply information direct.

ENQUIRY FORM

I am interested in the following advertisements appearing in this issue of "The Architects' Journal."

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This installation is specially interesting as being one of the very few attempts made in this country to apply what is a very common method of heating small houses in America. It is unfortunate that the authors do not give more information about actual temperatures achieved and about the temperature distribution, as the scheme appears to have very considerable merits. It would also be useful to have cost data for the appliance and all accessories, including ducting. The article includes comments from the house tenants, which are very favourable, though too much reliance cannot be placed on the reactions of a single family. The article is illustrated and architects will note the importance of planning a system of this kind to reduce duct runs to a minimum.

23.90 heating and ventilation HOUSE HEATING TRIALS

The Economics of House Heating. Richard Eve and J. C. Weston. (J. Royal Inst. British Architects. Nov., 1948.) (See also AJ, Dec. 2, 1948.)

First report on BRS heating trials on Abbots Langley houses. Description of houses and methods of testing. Results of first season trials in unoccupied houses. Fuel costs, capital costs and attendance times. A report of great importance on a major research. (See also 4 pp. illustrated article in AJ, Dec. 2, which gives a simple description and some discussion of results.)

This paper is the first to give any results of heating trials on 20 houses built at Abbots Langley by the BRS. It is confined to a description of the houses with a schedule of appliances, some explanation of the experimental technique and a recording of the results of the first full season's trials in the unoccupied houses in terms of costs of fuel, capital costs and amount of labour required in attending appliances. Much data remain to be analysed and reported later and the experiment is now continuing with the houses occupied.

The appliances used include most of those normally found in small houses (about 1,000 sq. ft. total floor area) and in addition there are several rather unusual systems of heating. All the houses are of similar design and heat insulation. Built as ten semi-detached pairs there may be slightly different heat losses due to different end exposures of each pair. This is covered by having similar heating in two houses. All houses are of similar size but there are two plan types as necessitated by differing appliances.

The appliances fall into three main groups:—

(a) Those giving only partial heating.
(b) Those giving background heating plus topping up.

(c) Those giving full heating.

The paper gives details of the houses with illustrations of plans and a full schedule of all appliances described as types but without trade names.

The results cannot be dealt with adequately except by reference to the full paper. In this there is a table showing the annual fuel consumptions and then graphs showing capital costs of appliances, ducts, flues, etc., annual fuel costs, annual cost of fuel plus amortisation of capital at rates applicable to Local Authorities and of annual fuel costs plus amortisation at rates applicable to private owners. There is also a graph showing work involved in attending to the appliances.

The ventilation system for the houses is interesting and is described as are the rates of ventilation obtained during the experiment.

This paper, in itself, will not provide all the immediate answers that architects and

others would like but it does give a great deal of valuable data. Further papers can be expected from time to time. The authors are careful to point out that while the report gives data the interpretation of this information must be carried out with care. The same results could not be expected in houses differing greatly in size, exposure, insulation or district. In spite of this the results if properly used should be of great value in giving general guidance to architects and others dealing with future houses.

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

2973 DEVELOPMENT CHARGES

Q My client is contemplating buying a site for a warehouse. The site in question is described by the owner as an "Industrial Estate," but merely consists of a field with an ash road across it. The area is scheduled for industry and the price is £2,200 per acre.

Can you advise me if my client would be required to pay development charges, if he erects a building on the site? If he would be, it appears that he is paying the development value twice, since the agricultural value is obviously only a fraction of £2,200 per acre.

My interpretation is that if the Planning Authority regard the site as an Industrial Estate there is no change of use and no charge; if they do not, the development is by the vendor who is selling the field as building land.

A Development charges are clearly payable here, if anything is built on the site. It is the actual development that makes the charge payable, even though the development corresponds with the zoning. But there may ultimately be a scheme to give the owners of land already developed in outline some priority in respect of payments from the Compensation Fund. Unless the purchase is urgent, it would be inadvisable now to pay the owner's price for the land, even with an assignment of whatever rights he may have on the Compensation Fund.

2974 DEVELOPMENT CHARGES

Q In pre-war times builder clients used to buy agricultural land at about £200 per acre, spend £800 or so per acre (including interest and profit) on development which, at 8 to the acre, enabled them to offer building plots for £125 each. When building is again possible they will probably be able to buy land at a similar price, but unless costs fall, development will cost, say, £1,800 an acre, making cost of a plot £250. If, in addition, a development charge equal to the difference between selling price and agricultural value has to be paid it looks as if the final cost of plots will be about £500 each. Does this seem correct?

A As designed, the Act is intended to enable the builder to buy agricultural land at its agricultural value, that is, instead of paying £200 an acre for building land, the builder would pay, say, £50 for the land and a development charge of £150, making the total cost of the land to him the same as before. It is too early yet to say whether the Act will, in fact, produce this result.

A.J.3.2.49

BLOCK LETTERS, Please

PRICES

This regular feature, prepared by Davis, Belfield and Everest, Chartered Quantity Surveyors, summarises basic prices for materials and gives labour rates for the London District and Grade Classifications outside London. Detail prices of materials are given quarterly.

BASIC MATERIALS	BASIC PRICES AND RATES OF WAGES, 1948					1949
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
Portland cement (6 tons and over) per ton	60/6	60/6	60/6	60/6	60/6	60/6
Paper bags	11/-	11/-	11/-	11/-	11/-	11/-
2-in. unscreened ballast .. per yd. cu.	14/5	14/5	14/5	14/5	14/5	14/5
Fletton bricks (at station) .. per 1,000	73/-	73/-	73/-	73/-	73/-	73/-
Stoneware drain pipes (British standard, 2 tons and over). Standard list +	42½%	42½%	42½%	42½%	42½%	42½%
Roofing tiles .. per 1,000	90/-+	90/-+	90/-+	90/-+	90/-+	90/-+
Steel joists (basic sections ex mills) per ton	£17 16s. 6d.	£17 16s. 6d.	£17 16s. 6d.	£17 16s. 6d.	£17 16s. 6d.	£17 16s. 6d.
Lime greystone ..	84/9	84/9	84/9	84/9	84/9	84/9
Sheet lead (5 cwt.-1 ton lots) ..	£107 10s.	£107 10s.	£130 15s.	£130 15s.	£130 15s.	£142 10s.
Iron rainwater goods and soil pipes						
List 3100 AB+	70%	70%	70%	70%	70%	70%
White lead paint .. per gallon	42/3	42/3	42/3	42/3	42/3	48/3
RATES OF WAGES (LONDON)—						
Within 12 miles radius						
Craftsmen .. per hour	2/11	2/11	2/11	2/11	2/11	2/11
Labourers ..	2/4	2/4	2/4	2/4	2/4	2/4
From 12 to 15 miles radius						
Craftsmen ..	2/10½	2/10½	2/10½	2/10½	2/10½	2/10½
Labourers ..	2/3½	2/3½	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, 2/11; Labourers, 2/4.

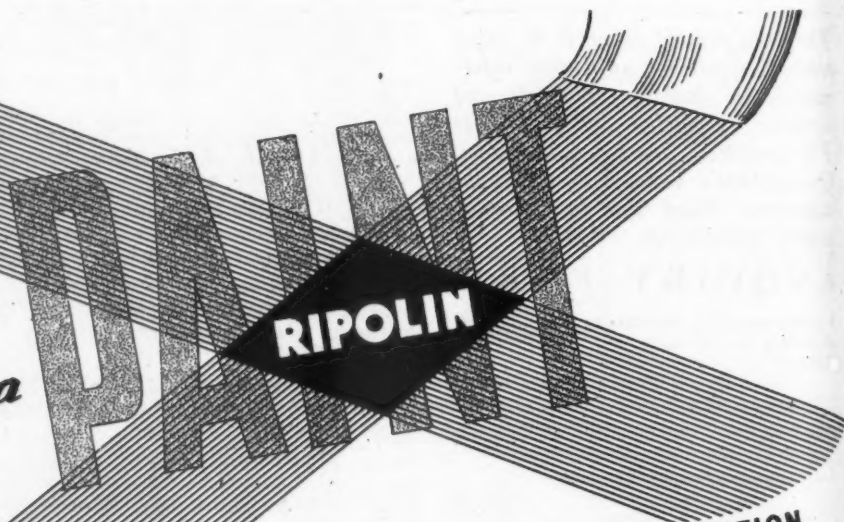
GRADE CLASSIFICATIONS

Craftsmen	A	A ¹	A ²	A ³
Labourers	2/9½	2/9	2/8½	2/8
	2/3	2/2½	2/2	2/1½

T. A. Davis

F.R.I.C.S., F.I.Arb.

More than just a

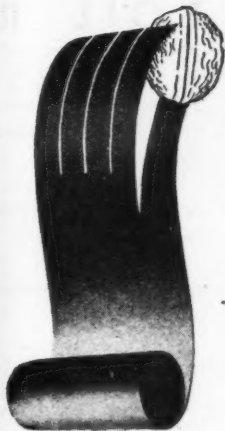


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xxxviii



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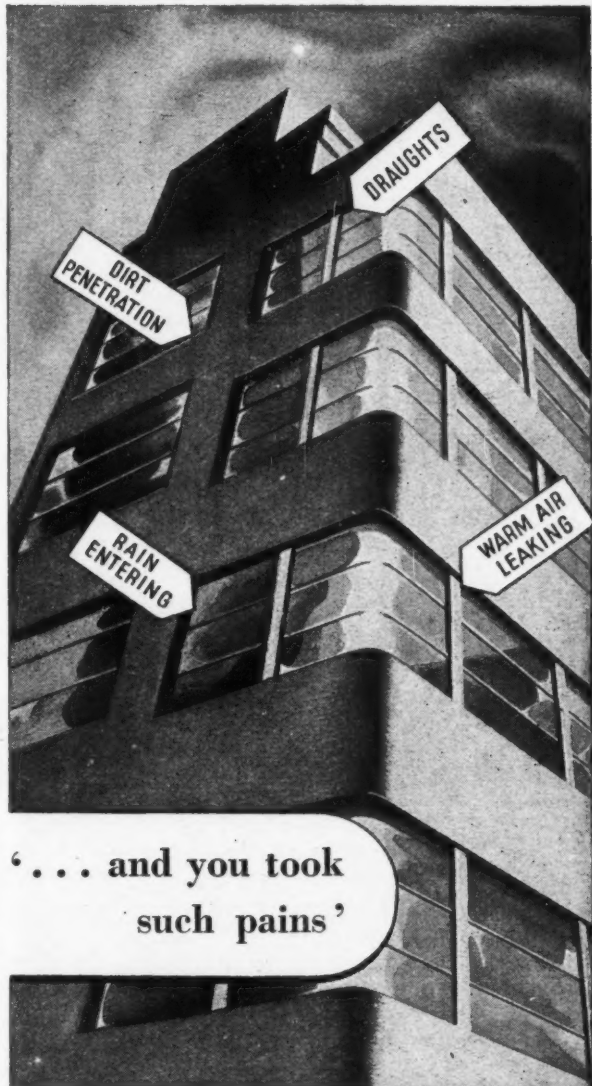
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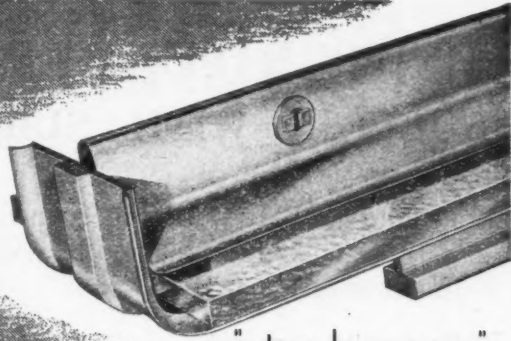
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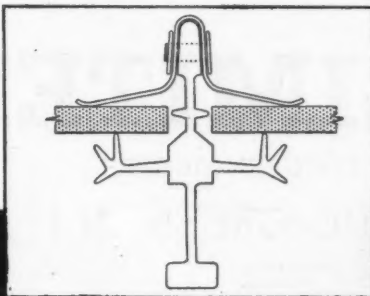
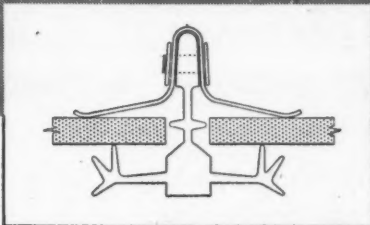
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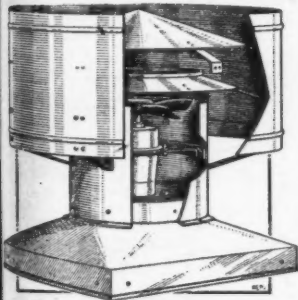
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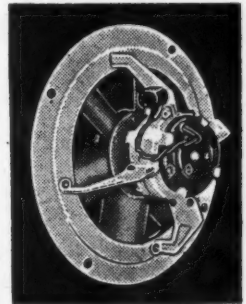
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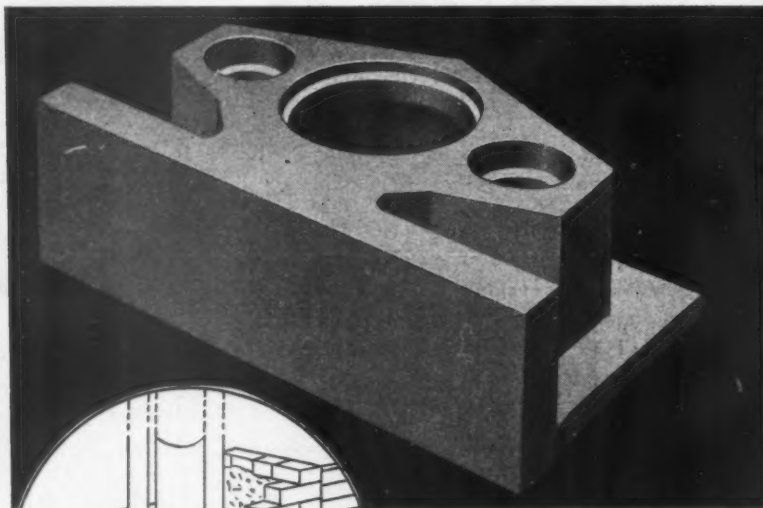
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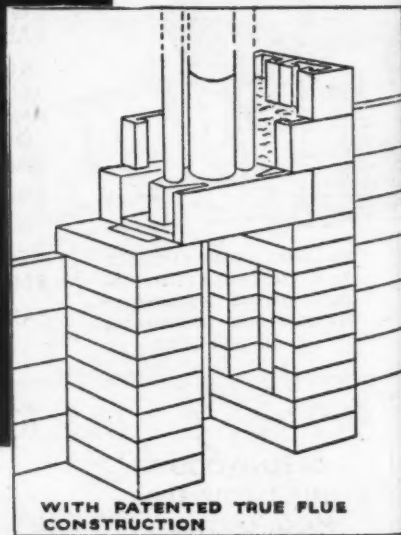


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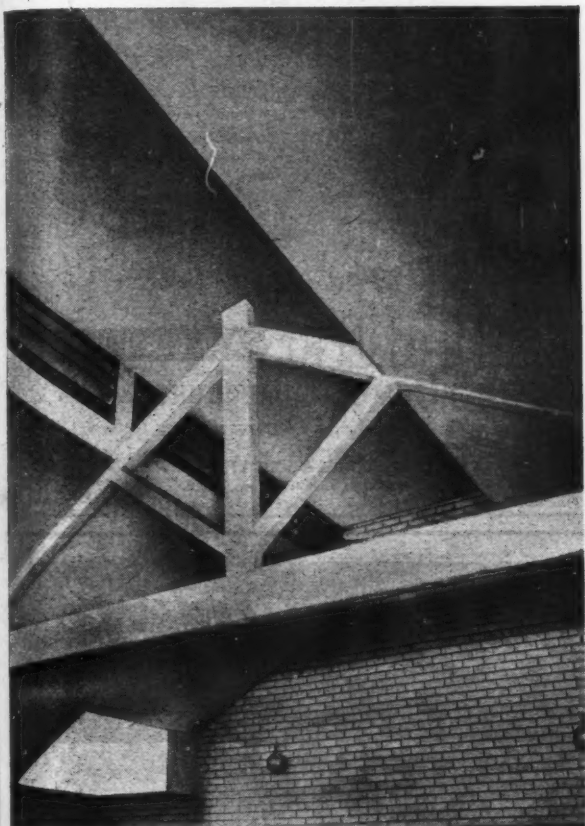
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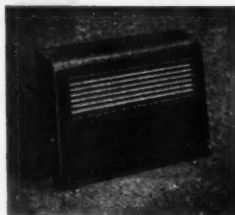
Electric

SPACE HEATING

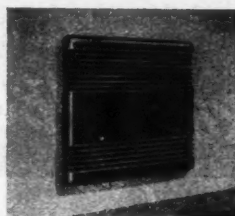
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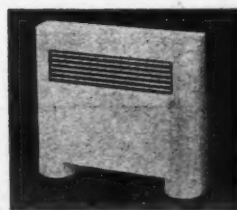
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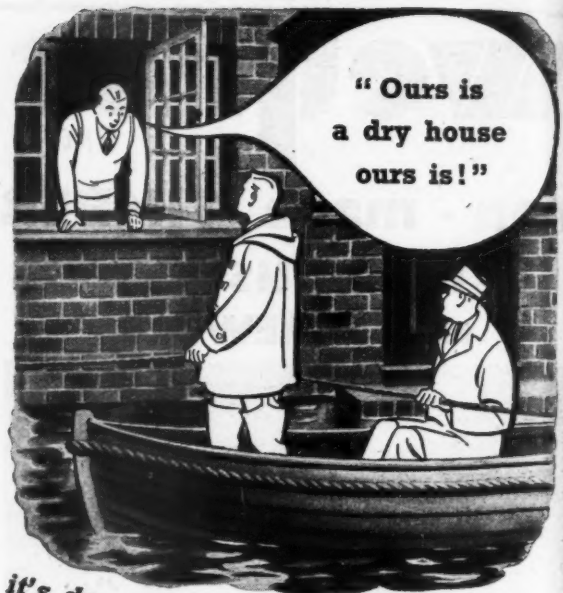
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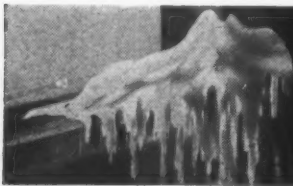
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Applicants should have received a regular training in architecture, and preference will be given to candidates who have passed the Intermediate R.I.B.A. or similar examination.

The appointment is subject to:-

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- Medical examination.
- N.J.C. Scheme of Conditions and Service.
- A month's notice on either side.
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Applications, stating age, training, qualifications, past and present appointments and present salary, and experience, to be delivered to the undersigned not later than Monday 7th February, 1949, endorsed "General Architectural Assistant." Canvassing, either directly or indirectly, will disqualify.

A. C. SHEPHERD,

Town Clerk.

Carr Bank, Mansfield. 1490
January, 1949.

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APPOINTMENT OF TWO ARCHITECTURAL ASSISTANTS.

Applications are invited for the above-mentioned permanent appointments in the Borough Engineer and Surveyor's Department, at a consolidated salary, according to the A.P.T. Division, Grade VI, of the National Scheme (£595 to £660), commencing 1st year, plus revised London weighting according to age.

Preference will be given to applicants who are Associate Members of the Royal Institute of British Architects (or who hold a similar qualification), but consideration will also be given to applications from persons intending shortly to take the Associate examination.

Applicants should have had experience in general architectural work, school and house planning and design, including the preparation of working drawings, specifications, and setting out.

Applications for the above-mentioned appointments must be made on the prescribed form (which contains particulars and conditions of appointment), obtainable from the undersigned, by whom applications must be received not later than the 8th February, 1949.

The Control of Engagement Order, 1947, does not apply to these appointments.

W. F. J. CHURCH,

Town Clerk.

Town Hall, Chiswick, W.4. 1476

BOROUGH OF EALING.
ARCHITECTURAL ASSISTANTS-BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following permanent appointments:-

(a) ARCHITECTURAL ASSISTANT, Grade VI, A.P.T. Division (£625-£690 inclusive per annum).

(b) ARCHITECTURAL ASSISTANT, Grade V, A.P.T. Division (£550-£600 inclusive per annum).

Applicants must be Associate Members of the Royal Institute of British Architects, preferably with Municipal experience.

Forms of application, together with Conditions of Appointment, may be obtained from the Borough Engineer and Surveyor, Town Hall, Ealing, W.5, and must be returned to me not later than the 14th February, 1949.

E. J. COPE-BROWN,

Town Clerk.

Town Hall, Ealing, W.5. 1501

BERKSHIRE COUNTY COUNCIL.
Applications are invited for the following appointment in the County Architect's Department:-

CHIEF QUANTITY SURVEYOR, at a salary of £750-£825-£860 per annum.

Candidates must have passed the Final examination of the Royal Institute of Chartered Surveyors (Quantities Section), and be fully experienced in the preparation of Bills of Quantities, Specifications and Estimates and the settling of Final Accounts. Candidates must be particularly experienced in the control and administration of a programme of building work undertaken by the staff of the Quantity Surveying Section of a Local Authority Department.

Application forms and further particulars can be obtained from the County Architect, 35, Bath Road, Reading, to whom they should be returned completed by Monday, 14th February, 1949.

H. J. C. NEOBARD,

Clerk of the Council.

Shire Hall, Reading. 1539

CITY OF PLYMOUTH.
CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointment on the Established Staff, which is subject to the Local Government Superannuation Act, 1937, a satisfactory medical examination, and a month's notice on either side for termination:-

ONE ASSISTANT ARCHITECT, A.P.T., Grade III. Consolidated salary £450-£495 per annum.

Candidates should have attained at least the standard of the Intermediate examination of the R.I.B.A. Candidates must not be over 40 years of age, but this condition may be relaxed in the case of a person up to 45 years of age employed by another Local Authority.

Applications on forms obtainable from the undersigned, accompanied by copies of not more than three recent testimonials and/or names of persons to whom reference may be made, should be returned to me as soon as possible.

HOUSING ACCOMMODATION WILL BE MADE AVAILABLE TO SUCCESSFUL APPLICANTS WHO REQUIRE IT.

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

City Architect.

City Architect's Department, Seymour Road, Plymouth. 1537

CITY OF BATH.
CITY ENGINEER'S DEPARTMENT.
ARCHITECTURAL SECTION.

Applications are invited for the appointment of a GENERAL ARCHITECTURAL ASSISTANT (Permanent), at a salary of £450-£495 or £480-£525 per annum (A.P.T. Grade III or IV), according to qualifications and experience.

Preference will be given to candidates who are Associate Members of the Royal Institute of British Architects or hold equivalent qualifications, and who have had experience in the design and supervision of housing estates or domestic buildings.

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

Applications, stating age, qualifications and experience, together with names and addresses of three referees, should be sent to the City Engineer, Guildhall, Bath, not later than 19th February, 1949.

JARED E. DIXON,

Town Clerk.

Guildhall, Bath. 1587
26th January, 1949.

CITY OF BATH.
CITY ENGINEER'S DEPARTMENT.

Applications are invited for the following appointment on the permanent staff of the City Engineer:-

JUNIOR ARCHITECTURAL ASSISTANT, Salary A.P.T. I or II (£390-£435 or £420-£465), depending on qualifications and experience.

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

Applications, stating age, qualifications and experience, together with names and addresses of three referees, should be sent to the City Engineer, Guildhall, Bath, not later than 19th February, 1949.

JARED E. DIXON,

Town Clerk.

Guildhall, Bath. 1588
26th January, 1949.

LANCASHIRE COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.
APPOINTMENT OF DIVISIONAL PLANNING OFFICER-MERSEYSIDE.

Applications are invited for the appointment of Divisional Planning Officer (salary £1,050-£1,310 per annum) in the Liverpool Divisional Planning Office of the County Planning Department.

The possession of one or more of the following or equivalent qualifications is essential: A University Degree in Civil Engineering or Architecture, A.M.T.P.I., A.M.I.C.E., A.R.I.B.A., A.M.I.Mun.E., A.R.I.C.S., and candidates must have had a wide experience in the preparation and administration of planning schemes and possess a sound knowledge of the various Acts and Orders dealing with Town and Country Planning.

The successful applicant will be responsible to the County Planning Officer for the planning of that part of the Administrative County which surrounds, but does not include, the County Boroughs of Liverpool, Bootle and Southport.

The appointment will be subject to the Scheme of Conditions of Service of the National Joint Council and to the Local Government Superannuation Act, 1937.

Applications, stating age, qualifications, experience and present salary, together with the names and addresses of two persons to whom reference may be made, should be forwarded to G. W. Sutton Brown, B.Sc., A.M.I.C.E., County Planning Officer, County Offices, Preston.

The final date for the receipt of applications is Saturday, the 12th February, 1949.

R. H. ADCOCK,

Clerk of the County Council. 1545

LANCASHIRE COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.
APPOINTMENT OF DEPUTY DIVISIONAL PLANNING OFFICER.

Applications are invited for the appointment of Deputy to the Divisional Planning Officer in the Manchester Divisional Office of the County Planning Department. The commencing salary will be within the range of £760-£825-£860 per annum, according to qualifications and experience.

The possession of one or more of the following or equivalent qualifications is essential: A University Degree in Civil Engineering or Architecture, A.M.T.P.I., A.M.I.C.E., A.R.I.B.A., A.M.I.Mun.E., A.R.I.C.S.

Candidates must have had extensive experience in the preparation of planning schemes, and possess a sound knowledge of the administration of relevant Acts and Orders.

The appointment will be subject to the Scheme of Conditions of Service of the National Joint Council, and to the Local Government Superannuation Act, 1937.

Applications, stating age, qualifications, experience and present salary, together with the names and addresses of two persons to whom reference may be made, should be forwarded to G. W. Sutton Brown, B.Sc., A.M.I.C.E., County Planning Officer, County Offices, Preston.

The final date for the receipt of applications is Saturday, the 12th February, 1949.

R. H. ADCOCK,

Clerk of the County Council. 1546

COUNTY OF LANARK.
TOWN AND COUNTRY PLANNING.

Applications are invited for the appointment of Planning Officer to the County Council of the County of Lanark.

Candidates must possess one or more of the following qualifications:-University Degree of Civil Engineering or Architecture, A.M.I.C.E., A.M.I.Mun.E., A.R.I.C.S., A.R.I.B.A., A.M.T.P.I. They must also have a wide and practical experience in the preparation of planning schemes for rural and populous areas, have a thorough knowledge of the various Acts and Orders relating to Town and Country Planning, and be familiar with the administration of Development Applications.

The consolidated salary scale is £960 per annum, rising by annual increments of £50 to £1,160. The post is superannuated, and the successful candidate will be required to pass a medical examination.

Applications, giving full particulars of age, qualifications and experience, together with copies of three recent testimonials, should be forwarded to "The County Clerk, Lanarkshire House, 191, Ingram Street, Glasgow," to be received not later than 12th February, 1949. Canvassing will disqualify.

WM. C. BROWNIE,

County Clerk. 1553

COUNTY COUNCIL OF NORTHUMBERLAND.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the posts of ASSISTANT ARCHITECT, A.P.T., Grade IV (consolidated salary £480-£525), and Grade V (consolidated salary £520-£570).

The commencing salary and grade will be in accordance with the qualifications and experience of the candidate.

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 candidate will be required to pass a medical examination.

Applications, stating age, qualifications and previous experience, accompanied by recent testimonials, should be forwarded to the County Architect, County Hall, Newcastle-on-Tyne, not later than 10th February, 1949. 1562

SWADLINCOTE URBAN DISTRICT COUNCIL.
APPOINTMENT OF ARCHITECTURAL ASSISTANT (TEMPORARY).

Applications are invited for the position of Architectural Assistant in the office of the Surveyor to the Council. The appointment is to be temporary staff, and (subject to satisfactory service), for a period of 4 years in the first instance. Salary in accordance with Grade III of the A.P.T. Division of the National Joint Council's Scale of Salaries.

Applicants should hold the Intermediate examination of the R.I.B.A. or equivalent qualification. Experience of field survey work and Town Planning will be an added advantage.

Applications, stating age, training, experience, past and present appointments, and date available, should be addressed to the undersigned, not later than noon on Saturday, the 12th February, 1949. Copy testimonials will not be required in the first instance, but candidates should give the names of three persons to whom reference can be made.

Canvassing, directly or indirectly, will disqualify. Candidates must in their applications state if to their knowledge they are related to any member or the holder of any senior post under the Council.

A modern semi-detached house will be available to the successful candidate if required.

J. SANDIFORD,
Clerk of the Council.

Clerk's Office, Swadlincote, near Burton-on-Trent.
22nd January, 1949. 1548

CITY OF SALFORD.

Applications are invited for the appointment of ASSISTANT in the City Engineer's Department, at a salary within Grade II (£420 to £465 per annum) of the National Scale of Salaries.

Candidates should have had experience in Town Planning and a Civil Engineering or Architectural training.

The appointment will be subject to:—

(a) The Conditions of Service of the National Joint Council, as adopted by the City Council;

(b) the provisions of the Local Government Superannuation Act, 1937;

(c) the passing of a medical examination.

Applications, stating age, qualifications and experience, together with particulars of past and present employment—accompanied by copies of two recent testimonials—should be forwarded in envelopes endorsed "Assistant," addressed to the City Engineer, Town Hall, Salford, 3, and be delivered not later than Monday, 14th February, 1949.

Applicants must disclose, in writing, whether or not they are related to any Member of the Council or an Officer of the Authority.

H. H. TOMSON,
Town Clerk.

1549

GLOUCESTERSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECTS.

Candidates should be qualified members of the R.I.B.A., with good general experience in design and construction of public buildings, including schools.

A.P. and T., Grade V, and eligible for promotion to A.P. and T., Grade VI, according to experience.

(b) ARCHITECTURAL ASSISTANTS.

Candidates should have passed the Intermediate examination of the R.I.B.A., with general experience in design and construction.

A.P. and T., Grade IV.

(c) JUNIOR ARCHITECTURAL ASSISTANTS.

Salary in accordance with experience, A.P. and T., Grades, I, II or III.

Appointments will be subject to the Local Government Superannuation Act, 1937, and candidates, before appointment, will be required to pass a medical examination.

The appointments will be terminable by one month's notice on either side.

Applications, stating (1) name and address, (2) married or single, (3) age, (4) qualifications, (5) present position, salary and date of appointment, (6) previous positions with dates and salaries, (7) particulars of experience, and accompanied by copies of three recent testimonials, should be sent to S. E. Urwin, F.R.I.B.A., County Architect, Shire Hall, Gloucester, not later than Wednesday, the 16th February, 1949.

GUY H. DAVIS,
Clerk of the County Council.

18th January, 1949. 1495

BOROUGH OF BEXLEY.
APPOINTMENT OF ARCHITECTURAL ASSISTANT

(Second insertion).

Applications are invited for the appointment of an Architectural Assistant on the permanent staff in the Architectural Section of the Borough Engineer's Department. The salary will be in accordance with Grade A.P.T. III. of the National Scale of Salaries (£450-£495), plus London weighting.

Form 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 14th February, 1949.

Canvassing, directly or indirectly, will disqualify.

W. WOODWARD,
Town Clerk.

Council Offices, Bexleyheath, Kent. 1528

DENBIGHSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

The above County Council invites applications for the under-mentioned appointments in the County Architect's Department, Wrexham, viz.:

ONE CHIEF QUANTITY SURVEYOR. A.P.T. Division, Grade VIII. Salary £685-£760 per annum.

Candidates must be Chartered Quantity Surveyors of the Royal Institute of Chartered Surveyors (Quantities Section), and must be capable of undertaking all stages of the work in the preparation of Specifications and Bills of Quantities, including preliminary estimates, preparation and statement of final accounts, site measurements and the preparation of interim surveys, and should have had extensive experience in this type of work.

ONE ASSISTANT QUANTITY SURVEYOR. A.P.T. Division, Grade VI. Salary £595-£660 per annum.

Candidates should be Members of the Royal Institute of Chartered Surveyors (Quantities Section), and must show evidence of special ability and experience as a "taker-off" for all types of building works undertaken by a Local Authority.

In addition he should be familiar with, and will be required to undertake "working-up" in all stages, specification writing, measurement of work on site, final accounts, and the preparation of cost statistics.

ONE ASSISTANT ARCHITECT. A.P.T. Division, Grade V. Salary £520-£570 per annum.

Preferably Members of R.I.B.A. and Registered Architects. Must have had sound experience in architectural design and in the preparation of working drawings, with full understanding of modern school construction.

TWO JUNIOR ASSISTANT ARCHITECTS. A.P.T. Division, Grade III. Salary £450-£495 per annum.

Preference will be given to applicants who have passed the Intermediate R.I.B.A. examination. Applicants must be capable of the preparation of working drawings and details for modern buildings.

ONE JUNIOR ASSISTANT ARCHITECT (for Abergelge Area Office). Grade II. Salary £420-£465 per annum.

Preference will be given to applicants who have passed the Intermediate R.I.B.A. examination. Applicants must be capable of the preparation of working drawings and details.

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

The successful applicants will be required to pass a medical examination, and to reside in such place in the County as the County Council may direct.

Applications, giving age, qualifications, and particulars of present and previous appointments, and accompanied by copies of three recent testimonials, to be sent to me, the undersigned, in a sealed envelope, endorsed with a description of the post applied for, by not later than the 19th day of February, 1949.

WILLIAM JONES,

Clerk of the County Council.

County Offices, Ruthin.
25th January, 1949. 1578

CITY OF MANCHESTER EDUCATION COMMITTEE.
MUNICIPAL SCHOOL OF ART.

Principal: J. M. HOLMES, Dip. Fine Art. Lond.

DEPARTMENT OF ARCHITECTURE.

Applications are invited for a Full-time STUDIO INSTRUCTOR in Architectural Design and Construction Subjects.

Candidates must be Associates or Fellows of the R.I.B.A., and should have had teaching and office experience, with an all-round knowledge of the theory and practice of Architecture and Building.

Salary in accordance with Burnham Technical Scale for Assistants, with additions for time spent in training and graduate qualifications in appropriate cases.

Application forms and conditions of appointment may be obtained (stamped addressed foolscap envelope) from the Chief Education Officer, Education Offices, Deansgate, Manchester, 3, to whom completed applications should be returned within 14 days of the appearance of this advertisement. 1567

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BOROUGH OF KEIGHLEY.
BOROUGH ARCHITECT'S AND HOUSING DEPARTMENT.

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

(a) ONE SENIOR ASSISTANT ARCHITECT. Grade V(a), salary scale £550 to £610.

(b) ONE ASSISTANT ARCHITECT. Grade III, salary scale £450 to £495.

(c) ONE ASSISTANT ARCHITECT. Grade I, salary scale £390 to £435.

(d) ONE QUANTITY SURVEYING ASSISTANT. Grade I, salary scale £390 to £435.

Applicants for position (a) must be Associate Members of the R.I.B.A., with experience in post-war School building.

Applicants for position (b) to have had general architectural experience in a Municipal office, preferably holding a professional qualification. Some experience in post-war School building would be an advantage.

Applicants for positions (c) and (d) to have had general architectural or quantity surveying experience, preferably having passed the Intermediate examination of their respective Professional Institutes.

Canvassing of Members of the Council, directly or indirectly, will be a disqualification for appointment.

Applications to be made on a form to be obtained from the undersigned, to whom it must be returned, accompanied by copies only of three recent testimonials, not later than Thursday, 24th February, 1949. In applying for the form, please state for which appointment.

Envelopes and applications must be endorsed, stating clearly the vacancy for which the application is made.

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

Borough Architect's and Housing Department,
College Street, Keighley. 1589

LANCASHIRE COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.

APPOINTMENT OF DEPUTY ASSISTANT PLANNING OFFICER (RESEARCH).

Applications are invited for the appointment of Deputy to the Assistant Planning Officer (Research) on the Headquarters Staff of the County Planning Department, County Offices, Preston.

The commencing salary will be within the range of £760-£825-£860 per annum, according to qualifications and experience.

Candidates should possess a University Degree to the standard of First-Class Honours, preferably in Economics, Geography or Social Theory, and should be familiar with problems of Town and Country Planning. They should also be well versed in modern survey techniques. Experience with a Government Department, a Local Planning Authority or a Research Institute, will be an advantage. The successful applicant will be responsible for the collation of research material and for the preparation of comprehensive reports on a wide variety of planning topics.

The appointment will be subject to the Scheme of Conditions of Service of the National Joint Council and to the Local Government Superannuation Act, 1937. In the event of the successful applicant being a member of the Federated Superannuation Scheme for Universities, he may opt to remain in that Scheme.

Applications, stating age, qualifications, experience and present salary, together with the names and addresses of two persons to whom reference may be made, should be forwarded to G. W. Sutton Brown, B.Sc., A.M.I.C.E., County Planning Officer, County Offices, Preston.

The final date for the receipt of applications is Saturday the 12th February, 1949.

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

County Offices, Preston. 1547

METROPOLITAN BOROUGH OF HAMPTSTEAD.
ARCHITECTURAL ASSISTANT

(TEMPORARY).

Applications are invited for the appointment of an Architectural Assistant on the Temporary Staff of the Housing Architect's Section of the Borough Engineer and Surveyor's Department, at a salary in accordance with Grade IV of A.P.T. Division, National Scales of Salaries, £480 to £525 per annum, plus £30 London weighting. Age limit: 45 years of age on the 1st January, 1949.

Applicants should be suitably qualified, preferably members of the Royal Institute of British Architects, and should have experience in general Architectural work, including house planning and design, adaptations and conversions, and be able to prepare working drawings and specifications.

Applications stating (a) age, (b) examination qualifications, (c) present and past appointments, with dates and salaries, (d) detailed particulars of experience, and accompanied by copies of three recent testimonials, must be delivered to me in a sealed envelope endorsed "Architectural Assistant," not later than 12 noon on Friday, 11th February, 1949.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937. The conditions of service are those in the National Scheme for Local Government Officers, and the appointment will be terminable by one calendar month's notice on either side.

Canvassing will disqualify.

P. H. HARROLD,
Town Clerk.

Town Hall, Haverstock Hill, N.W.3.
January, 1949. 1552

EDINBURGH CORPORATION.

TOWN PLANNING DEPARTMENT.

Applications are invited for the following permanent appointments:—

(a) ONE SENIOR AREA PLANNING OFFICER (£200-£250).

(b) ONE AREA PLANNING OFFICER (£170-£200).

(c) ONE SECOND PLANNING ASSISTANT (£135-£170, A.P.T., Grade VII).

(d) TWO PLANNING ASSISTANTS (£120-£150, A.P.T., Grade V).

(e) TWO SENIOR DRAUGHTSMEN (£395-£440, H.D.I.).

(f) ONE JUNIOR DRAUGHTSMAN (£205-£235, G.D.).

Qualifications and experience of candidates should be as below:—

Appointments (a) and (b): Corporate Membership of the Town Planning Institute is essential, together with an additional qualification in Architecture, Engineering or Surveying. Candidates must have had considerable experience in a Senior position in a Planning Office, covering the preparation of Development Plans and Control of Development.

Appointments (c): Qualifications as for (a) and (b). Experience in a Planning Office is essential. Appointment (d): Corporate Membership of the Town Planning Institute is desirable. Alternatively candidates should have passed the Final examination of the Town Planning Institute or should hold the Diploma in Town Planning of a School recognized by the Town Planning Institute. Experience in a Town Planning Office is essential, and an additional qualification in either Architecture, Engineering or Surveying is required.

Appointments (e): Training and experience in Architecture is preferable at least up to Intermediate standard. Experience in a Planning Office would be an advantage.

Appointments (f): Experience in the preparation and colouring of plans, maps and diagrams is required. Candidates should be good draughtsmen, and should preferably have had some experience of Architectural work.

Applications, stating age, present and previous appointments and present salary, qualifications and experience, should be forwarded to the Town Planning Officer, City Chambers, Edinburgh, not later than Monday, 14th February, 1949. Successful applicants will be required to pass a medical examination and will be subject to the Corporation's superannuation scheme.

J. STORRAR,

Town Clerk.

City Chambers, Edinburgh, 1.

1575

LONDON COUNTY COUNCIL.

VACANCIES FOR QUANTITY SURVEYORS AND ASSISTANTS IN ARCHITECT'S DEPARTMENT.

SURVEYOR. Grade III, £550-£725-£700 a year.

TEMPORARY TECHNICAL ASSISTANT (a). £440-£20-£250 a year.

TEMPORARY TECHNICAL ASSISTANT (b). Up to 167s. 6d. a week.

Commencing rates according to qualifications and experience.

Candidates for Grade III positions should be Associates of the Royal Institution of Chartered Surveyors, and be experienced in abstracting and billing, estimating, interim valuations for payments on account, measuring, adjusting and agreeing final accounts, "taking off," and the preparation of Bills of Quantities. Other candidates should also have a working knowledge of these matters.

Successful candidates are required to contribute to the Council's Superannuation and Provident Fund, and there will be opportunities of competing on merit for permanent appointment.

Application forms from the Architect (A.R.P.O.), County Hall, Westminster, S.W.1, and colouring stamped addressed foolscap envelope, Canvassing disqualifies. (84)

1580

EAST SUFFOLK COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Applications are invited for the following posts in the County Architect's Department:—

GRADE B ASSISTANT ARCHITECTS, A.P.T., Grade V. Consolidated salary £500-£570.

The commencing salary in the grade will be fixed according to the qualifications and experience of the candidate.

Applicants for these appointments should preferably be Members of the R.I.B.A. and, if school trained, should have had at least two years' office experience. They must be quick and accurate draughtsmen, fully conversant with 2 in. scale, half inch and full size details for all types of building normally dealt with by a Local Authority, and have a good knowledge of design, construction and specifications.

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 applicants will be required to pass a medical examination.

Applications, stating age, qualifications and full details of previous experience, accompanied by copies of three recent testimonials, should be sent to E. J. Symcox, F.R.I.B.A., County Architect, County Hall, Ipswich, not later than 11th February, 1949.

Canvassing, either directly or indirectly, will disqualify a candidate from consideration.

G. C. LIGHTFOOT,

Clerk of the Council.

County Hall, Ipswich.

1479

COUNTY OF ESSEX.

LEYTON COMMITTEE FOR EDUCATION.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT in the office of the Borough Engineer and Surveyor.

The salary will be £480 per annum, rising by three annual increments of £15 per annum to a maximum of £525 per annum. In addition a London weighting of £30 if over 26 years of age, or £20 age 21 to 25, will be payable.

The appointment, which is permanent, will be subject to the Standing Orders of the Essex County Council from time to time in operation, to the provisions of the Local Government Superannuation Act, 1937, and to the Conditions of Service contained in the Scheme of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services as amended from time to time and as adopted by the County Council.

Candidates should be Members of the Royal Institution of British Architects, or hold other suitable qualifications, must be good draughtsmen and possess a practical knowledge of building construction in connection with the maintenance, design and construction of educational buildings, and be able to prepare working and detail drawings.

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

Applications, stating age, details of qualifications and experience, together with copies of three recent testimonials, must be delivered to the Borough Engineer and Surveyor, Town Hall, Leyton, E.10, not later than Friday, 18th February, 1949, in a sealed envelope, endorsed "Architectural Assistant (Education)." D. J. OSBORNE,

Town Clerk.

Town Hall, Leyton, E.10.

1503

CITY AND COUNTY OF KINGSTON-UPON-HULL.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments in the Quantity Surveyor's Section:—

(a) SENIOR QUANTITY SURVEYOR. A.P.T., Grade VI (£595-£660 per annum).

Applicants must have had experience in all branches of building work, and should be familiar with every aspect of a Quantity Surveyor's duties, including preparation of estimates, "taking off" in all trades complete for Bills of Quantities, and be able to measure up for interim and final certificates and settle final accounts.

(b) ASSISTANT QUANTITY SURVEYORS. A.P.T., Grade III (£450-£495 per annum).

Applicants should have had experience in the checking of interim certificates, measurement of works in progress, and able to "take off" in all trades.

(c) SURVEYOR'S CLERK (MEASURING ASSISTANT). Miscellaneous II (£375-£420 per annum).

Applicants should have had experience in a contractor's office and be competent to measure on site for variations or interim valuation and to check increased cost (labour and materials) claims.

The Corporation have in course of construction and in preparation a large and varied programme of interesting works which will offer experience and opportunity to successful applicants.

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

Application forms, obtainable from the undersigned, should be returned complete on or before 19th February, 1949.

ANDREW RANKINE, A.R.I.B.A.,

City Architect.

Guildhall, Kingston-upon-Hall.

1592

BOROUGH OF LUTON.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the following appointments:—

SENIOR ARCHITECTURAL ASSISTANT. A.P.T. VII (£635-£725-£710).

ARCHITECTURAL ASSISTANTS, A.P.T. II (£420-£465); **A.P.T. III** (£450-£495); **A.P.T. IV** (£480-£525), according to experience and qualifications.

Applicants should be A.R.I.B.A. and have had Municipal experience, with particular reference to housing and school works.

In the case of the Grade VII appointment, housing accommodation will be made available, if required, to the successful candidate, but in the case of Grades II to IV appointments, an endeavour will be made, if necessary, to provide such accommodation.

All the appointments are subject to the Local Government Superannuation Act, 1937, to the National Scheme and Conditions of Service, and to the successful candidates passing medical examinations.

Applications for each post, suitably endorsed, giving particulars of age, qualifications and experience, present appointment and salary, and accompanied by copies of not more than three recent testimonials, should be forwarded to F. Oliver, Esq., A.M.I.C.E., Borough Engineer, Town Hall, Luton, not later than first post on Monday, 21st February 1949.

Canvassing will disqualify.

W. H. ROBINSON,

Town Clerk.

Town Hall, Luton.

1557

DURHAM COUNTY COUNCIL.

EDUCATION COMMITTEE.

ERECTION OF MINISTRY OF WORKS HUTTING.

The Education Committee are prepared to receive sole Tenders from Contractors and Builders for the erection of the following Ministry of Works Hutting at the under-mentioned schools:—

Benfieldside County School.—Additional Classroom.

Billingham South County School.—Additional Classrooms.

Dunston Hill County School.—Additional classroom.

Gilesgate Moor County School.—Additional Classroom.

Hookergate Grammar School.—Additional Classrooms.

Horden Colliery County School.—Additional Classroom.

Houghton-le-Spring Grammar School.—Practical Instruction Rooms.

Jarrow Grammar School.—Additional Classrooms and Practical Instruction Room.

Felling Wardley County School.—Kitchen Dining Room.

Hartlepool Henry Smith Grammar School.—Kitchen Dining Room.

Spennymoor Ald. Wraith Grammar School.—Kitchen Dining Room.

Sacriston County School.—Dining Room.

West Auckland Copeland Lane Modern School.—Kitchen Dining Room.

Applications for the Forms of Tender and Bills of Quantities, stating the School or Schools referred to, are to be sent to the County Architect's Office, Court Lane, Durham, by not later than Monday, the 21st February, 1949.

No pledge is given to accept the lowest or any tender.

G. R. CLAYTON, F.R.I.B.A.,

County Architect.

Court Lane, Durham.

25th January, 1949.

1611

CITY OF SALFORD.

Applications are invited for the appointment of a JUNIOR ARCHITECTURAL ASSISTANT, in the City Engineer's Department, at a salary within the General Division of the National Scale of Salaries (Males—£220 at 21 years of age, rising to £385 at 32 years of age. Females—£178 at 21 years of age, rising to £308 at 32 years of age). The commencing salary will be determined according to ability and experience.

Applicants should be good draughtsmen, possess a sound knowledge of building construction, and be capable of preparing working drawings under supervision.

The appointment 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;

(3) the passing of a medical examination.

Applications, giving details of age, training and experience, together with copies of two recent testimonials, should be forwarded in envelopes endorsed "Junior Architectural Assistant," addressed to the City Engineer, Town Hall, Salford, 3, so as to be received not later than first post on Monday, 14th February, 1949.

Applicants must disclose, in writing, whether or not they are related to any Member of the Council or Officer of the Authority.

H. H. TOMSON, Town Clerk.

1550

CITY OF PORTSMOUTH.

CITY PLANNING DEPARTMENT.

Applications are invited for the following appointments:—

(a) ASSISTANT PLANNING OFFICER (Grade VII £585-£760 per annum).

(b) TWO PLANNING ASSISTANTS (Grade V, £520-£570 per annum).

(c) TWO GENERAL ASSISTANTS (General Division, £135-£385 per annum, according to age).

Applicants for post (a) must be suitably qualified.

Applications, stating age, present position, qualifications and experience, together with names of three responsible persons to whom reference may be made, must be delivered to the undersigned, clearly marked "City Planning Appointment," not later than 21st February, 1949.

Canvassing will disqualify.

V. BLANCHARD,

Town Clerk.

City Council Chambers, Southsea.

21st January, 1949.

1554

MANCHESTER MUNICIPAL SCHOOL OF ART.

ALL SAINTS, MANCHESTER, 15.

Principal: JOHN M. HOLMES, Dip. Fine Art Lond.

DEPARTMENT OF ARCHITECTURE.

Applications are invited from suitably qualified persons for appointment as LECTURER IN ARCHITECTURE. Candidates should be qualified to lecture in structural design and to supervise studio work in connection with the five-year diploma course.

Salary is at the Senior Assistant's scale of the Burnham Technical Report (£700-£25-£280 men, £560-£20-£240 women), plus allowances in respect of graduation qualifications and time spent in training in appropriate cases.

Application forms and conditions of appointment may be obtained (stamped addressed foolscap envelope) from the Chief Education Officer, Education Offices, Deansgate, Manchester, 3, to whom completed applications should be returned within 14 days from the appearance of this advertisement.

1568

**WEST RIDING COUNTY COUNCIL.
ARCHITECT'S DEPARTMENT.
APPOINTMENT OF DEPUTY COUNTY
ARCHITECT (DESIGN).**

Applications are invited for the post of DEPUTY COUNTY ARCHITECT in the above department, at salary of £1,250, rising by annual increments of £50 to a maximum of £1,550 per annum. Travelling and subsistence allowances will be paid in accordance with the County Council's scale.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, as amended by the W.R.C.C. General Powers Act, 1948, and to a medical examination. Applicants must have first-class architectural ability and experience, and be thoroughly capable of organizing a large drawing office. It is estimated that something like £2,000,000 to £3,000,000 of architectural work will be passing through the department annually, and the person appointed will be responsible to the County Architect for maintaining the very highest possible standard of architectural work throughout the department. The department is responsible for some 4,000 County properties, and the building work of the department covers all types of Educational and Health Buildings, Police Stations, Court Houses, Police Housing and Fire Stations, together with all other County buildings.

Applications, on forms to be obtained from this office, must be addressed to me (endorsed "Deputy County Architect (Design)," and should be received by me on or before Monday, the 21st February, 1949.

Canvassing of members of the County Council, either directly or indirectly, will be a disqualification.

HUBERT BENNETT,

West Riding County Architect.
County Hall, Wakefield. 1607

**WEST RIDING COUNTY COUNCIL.
APPOINTMENT OF DEPUTY COUNTY
ARCHITECT (ADMINISTRATIVE).**

Applications are invited for the post of a further DEPUTY COUNTY ARCHITECT, at a salary of £1,250, rising by annual increments of £50 to a maximum of £1,550 p.a. Travelling and subsistence allowances will be paid in accordance with the County Council's scale.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, as amended by the West Riding County Council General Powers Act, 1948, and to a medical examination.

Applicants must have professional and administrative experience, preferably in Local Government or Central Government Service.

Applications, on forms to be obtained from this office, must be addressed to me (endorsed "Deputy County Architect (Administrative)," and should be received by me on or before Monday, the 21st February, 1949.

Canvassing of members of the County Council, either directly or indirectly, will be a disqualification.

HUBERT BENNETT,

West Riding County Architect.
County Hall, Wakefield. 1608

**CARDIFF RURAL DISTRICT COUNCIL.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT.**

Applications are invited for the appointment of Architectural Assistant in the Engineer and Surveyor's Department, in A.P.T., Grade Va, £550-£610 per annum. Candidates should be Associates of the Royal Institute of British Architects, with experience in House Design and the preparation of Working Drawings, Details, Specifications and General Supervision.

The successful applicant will be required to pass a medical examination and to contribute to the Council's Superannuation Scheme and conform to the Council's Conditions of Service.

Applications, on forms to be obtained from the undersigned, should reach me not later than noon on Tuesday, the 15th February, 1949.

W. FARROW,

Engineer and Surveyor.
Council Offices, 20, Park Place, Cardiff. 1561
January, 1949.

**TARVIN RURAL DISTRICT COUNCIL.
ARCHITECTURAL ASSISTANT.**

Applications are invited for the appointment of Architectural Assistant in the Office of the Engineer and Surveyor.

Applicants must have had sound training by pupillage and had previous experience in design and construction of building works, particularly in relation to housing. Preference will be given to persons qualified by the examination of the R.I.B.A.

The salary will be in accordance with Grade III (Technical Division of the National Joint Council Scheme, viz., £450-£495).

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

Applications, stating age, qualifications and experience, together with copies of three recent testimonials, should be addressed to Mr. Thomas Priebe, M.I.Mun.E., and enclosed in an envelope endorsed "Architectural Assistant," and should reach this Office not later than Tuesday, the 8th February, 1949.

(Sgd.) **J. H. MOORE DUTTON,**

Clerk to the Council.
Westminster Buildings, Newgate Street,
Chester. 1551
24th January, 1949.

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

Applications are invited for the following appointments:—

(a) SENIOR ASSISTANT ARCHITECTS. Grade VII, £635-£710.

(b) ASSISTANT ARCHITECTS. Grade V, £520-£570.

(c) ASSISTANT ARCHITECTS. Grade II, £420-£465.

(d) SENIOR QUANTITY SURVEYORS. Grade VI, £595-£660.

(e) ASSISTANT QUANTITY SURVEYORS. Grade V, £520-£570.

(f) ASSISTANT ELECTRICAL ENGINEER. Grade IV, £480-£525.

One of the appointments under (c) is for an Architect or Surveyor experienced in land and building surveying.

Candidates for (f) must be competent to prepare schemes of lighting and power for new schools and other county buildings.

Applicants need not have had previous Local Government experience.

Applications, stating which post is applied for, together with three references, should be addressed to the County Architect, County Hall, Hertford, to be received not later than the first post on Saturday, 19th February, 1949. 1616

**SKIPTON URBAN DISTRICT COUNCIL.
JUNIOR TECHNICAL ASSISTANT
(HOUSING).**

Applications are invited for this appointment, at a commencing salary within A.P.T., Grade I, of the National Scales (£390-£435).

Duties will be mainly in connection with the provision of traditional and permanent prefabricated houses, and the roads, sewers, etc. A knowledge of building quantities and experience in measurement of completed work will be an advantage.

Although the appointment is not on the permanent establishment, it is anticipated that the Council's housing programme will continue for a considerable time. So far 70 houses are completed and 500 more are projected. The appointment will be subject to one month's notice on either side, and to the passing of a medical examination for superannuation purposes.

Applications, stating age, qualifications and experience, and the names and addresses of three referees, should be received by Mr. K. B. Robinson, B.Sc.(Eng.), A.M.Inst.C.E., Engineer and Surveyor, not later than first post, Friday, 18th February, 1949.

L. E. SMITH,

Clerk to the Council.
Town Hall, Skipton. 1615

**WEST RIDING OF YORKSHIRE COUNTY
COUNCIL.**

COUNTY ARCHITECT'S DEPARTMENT.

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

(a) ASSISTANT COUNTY ARCHITECTS. Salary £960-£1,060. Candidates must have high ability in design or administration, and be capable of taking charge of a section of the department and dealing with large contracts.

(b) CHIEF OR SECTIONAL ARCHITECTS. Salary ranges (1) £750-£825-£910, and (2) £585-£625-£760. Candidates must have high ability in design or administration, and be capable of taking charge of a section of the department dealing with large contracts.

(c) SENIOR ASSISTANT ARCHITECTS. Salary ranges (1) £635-£710, and (2) £595-£620-£720-£760. Candidates must have high ability in design or administration and be capable of taking charge of large building contracts.

(d) ASSISTANT ARCHITECTS. Salary ranges (1) £550-£620-£610, (2) £520-£515-£520-£570, (3) £480-£515-£525, and (4) £450-£495. Candidates must have good architectural ability and experience.

The above appointments are subject to the provisions of the Local Government Superannuation Act, 1937, as amended by the W.R.C.C. General Powers Act, 1948, and to a medical examination.

Applications on forms to be obtained from this office must be addressed to me and should be received by me on or before Monday, the 21st February, 1949.

Canvassing of members of the County Council, either directly or indirectly, will be a disqualification.

HUBERT BENNETT,

West Riding County Architect.
County Hall, Wakefield. 1609

**RUTLAND COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.
PLANNING ASSISTANT.**

An assistant is required in the Planning Department of the County Council to assist in the general work of the Department, and, in particular, with the Statutory Surveys, and with revision of Ordnance Sheets. Qualifications in Civil Engineering, Architecture, or Town Planning are desirable, and experience in the Planning Department of a Local Authority or Consultant would be an advantage. The post is on the permanent establishment of the County Council, and the salary offered is Grade IV of the A.P.T. Scale, i.e., £480-£515-£515-£525 per annum. Applications, together with copies of recent testimonials, should be addressed to the County Planning Officer, County Offices, Catmose, Oakham.

R. C. DALTON,

Catmose, Oakham. 1612

**GOVERNMENT OF NORTHERN IRELAND
MINISTRY OF HEALTH AND LOCAL
GOVERNMENT.**

ASSISTANT ARCHITECTS.

Applications are invited for unestablished posts of Assistant Architects in the Ministry of Health and Local Government. The appointments will be so far as can be foreseen last for several years. Remuneration: Successful candidates will be remunerated within one of the following salary ranges:—

Range A:—£700-£900 per annum inclusive.
Range B:—£500-£750 per annum inclusive, and the commencing salary within these ranges will be fixed in each case according to qualifications and experience. Two vacancies exist at Range A for Housing work, one at Range B for Planning, and one at Range B for Public Health work.

Qualifications: Candidates must be Registered Architects by examination. In addition, the candidates for the Housing and Public Health vacancies should, preferably, have experience in up-to-date house or hospital design and layout, as the case may be, and some aptitude for research into comparative standards of design and construction. In the case of a Planning appointment candidates should preferably possess a recognized qualification in town planning or have good experience in town planning work.

Preference will be given to candidates who served with H.M. Forces during the 1914-18 or 1939-45 war, providing the Ministry is satisfied that such candidates can, or within a reasonable time will be able to, discharge the duties efficiently.

Applications, giving date of birth, full particulars of qualifications and experience, and stating the post applied for, together with copies of two recent testimonials, should be sent, without delay, to the Assistant Secretary (Establishments), Ministry of Finance, Stormont, Belfast. 1590

**RURAL DISTRICT COUNCIL OF
WINCANTON.**

ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant in the Architect's and Housing Department of the Council. The appointment will be temporary, but will subsist for at least three years.

Applicants must be competent to make surveys, prepare plans, deal with quantities, and to assist generally in the Drawing Office.

The salary will be in accordance with Grade III of the National Scale, £450-£515-£495.

Applications, endorsed "Architectural Assistant," stating age, qualifications and experience, and giving the names of three persons to whom reference can be made, must be received by the undersigned not later than the 21st February, 1949.

Canvassing, direct or indirect, will be a disqualification.

S. L. CHAVE,

Clerk of the Council.
Council Offices, Wincanton, Somerset. 1606
28th January, 1949.

DURHAM COUNTY COUNCIL.

EDUCATION COMMITTEE.

The Education Committee are prepared to receive sole Tenders from Contractors and Builders for the following works:—

NEVILLE'S CROSS TRAINING COLLEGE.—

Reinstatement following Military Occupation and Adaptations and Alterations.

CHESTER-LE-STREET MODERN SCHOOL,

No. 615.—Adaptations and Alterations.

Applications for the Forms of Tender and Bills of Quantities are to be sent to the County Architect's Office, Court Lane, Durham, by not later than the 21st February, 1949. No pledge is given to accept the lowest or any tender.

G. R. CLAYTON, F.R.I.B.A.,

County Architect.
Court Lane, Durham. 1610
25th January, 1949.

PETERLEE DEVELOPMENT CORPORATION.

ARCHITECT PLANNER'S DEPARTMENT.

APPOINTMENT OF ARCHITECTS.

Vacancies exist for three Architects, at starting salaries of £750 to £1,100 per annum.

Ability in design and practical experience are essential.

Appointments are subject to one month's notice either way.

Superannuation is optional. Lodging allowances payable in certain circumstances.

Applications, stating age, qualifications, experience and present appointment, should be addressed to the Architect Planner, Peterlee Development Corporation, Shotton Hall, Old Shotton, County Durham, so as to arrive not later than 21st February, 1949. 1605

BRITISH ELECTRICITY AUTHORITY.

NORTH-WESTERN DIVISION.

CARRINGTON GENERATING STATION.

Applications are invited for an ASSISTANT QUANTITY SURVEYOR, at the Carrington Generating Station, near Manchester.

Candidates need not hold a professional qualification, but should have experience in taking off and billing and checking of general building and civil engineering contractors' accounts. Salary in accordance with Grade IV, Administrative, Professional and Technical Division of the N.J.C.L.A., namely £480 per annum, rising by annual increments of £15 to £465 per annum. Applications, giving details of age, training and experience, to be addressed to Messrs. C. B. Allott & Son, Consulting Engineers, 1, North Parade, Manchester, 3. 1604

NORTH-WEST METROPOLITAN REGIONAL HOSPITAL BOARD. ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointment in the Architect's Department:—
ASSISTANT ARCHITECT. Grade A.P.T., VI (£595 to £660 per annum, plus London weighting). Applicants should be Members of the R.I.B.A. or hold an equivalent qualification, and must have good general experience in design and construction. A knowledge of hospital work is an advantage.

The appointment will be subject to the provisions of the National Health Service (Superannuation) Regulations, 1947, and will be terminable by one month's notice.

Applications, giving details of experience, together with the names of two referees, should be addressed to the Secretary, North-West Metropolitan Regional Hospital Board, 11a, Portland Place, W.1, not later than 19th February, 1949. 1614

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

TWO ARCHITECTURAL ASSISTANTS required by firm of Architects with offices in West End of London; applicants should be up to R.I.B.A. Intermediate standard at least. Please apply by letter stating age, experience, and salary required. This position would possibly suit two friends desiring employment together. Box 1295

QUANTITY SURVEYING ASSISTANT required; good opportunity for a keen and reliable youth to progress. Apply in own handwriting, giving full particulars. Naylor, Sale & Widdows, St. Mary's Chambers, St. Mary's Gate, Derby. 1506

MR. LAWRENCE BOND requires an ASSISTANT, at least Inter. standard, in his practice as Diocesan Surveyor and Church Architect, at 11, Elmer Street, Grantham. 1531

D. DEX HARRISON and Ernest Seel, 34, Holland Park Road, Kensington, W.14, Tel. Western 2418, require ASSISTANT, with some office experience; pleasant conditions and interesting work; salary £400 to £450. 1538

ARCHITECTURAL ASSISTANT (single) required for country town office; office trained; good draughtsman; car owner/driver; experience in outside supervision and specifications; salary £500 per annum. Details to Box 1542.

WANTED.—**QUANTITY SURVEYOR'S ASSISTANT** in Northamptonshire Architect's office; salary according to experience; good prospects. Box 1499.

ASSISTANT required, who must be interested in contemporary design, and up to R.I.B.A. Intermediate standard; office near Hampton Court (half-hour Waterloo). Apply Eric Lyons & G. Paulson Townsend, Mill House, Bridge Road, East Molesey. 1443

BELFAST firm of Chartered Architects require Two ASSISTANTS, R.I.B.A. Intermediate standard, at once. Apply, giving particulars of education, qualifications and experience, with particular reference to Hospitals, Factories, Housing and Commercial Buildings; good prospects for Assistants with initiative, sound knowledge of construction and accurate draughtsmanship. Box 1574.

ARCHITECTURAL ASSISTANT required (qualified) for General Practice—Surveys, Working Drawings and Specifications. Write, stating age, previous experience and salary required. Henry C. Smart & Partners, L.R.I.B.A., 120, Moorgate, E.C.2. 1555

SENIOR ARCHITECTURAL ASSISTANT required in busy, old-established Derby Architect's office; responsible and progressive position offered, with commencing salary up to £700 to experienced man. Apply in writing to T. H. Thorpe, F.R.I.B.A., 23, St. James's Street, Derby. 1556

ARCHITECT (Chartered) urgently requires ASSISTANT in Coventry; Intermediate standard; good at design and perspective; flat now available if married; full details of experience, etc.; possible partnership later if satisfactory. Box 1559.

SENIOR ARCHITECTURAL ASSISTANT required in Architect's Department of Public Works Contractors, South London area; experience required in factory design and housing schemes; must have sound knowledge of construction and be conversant with present day regulations; salary up to £500 per annum. Box 1572.

JUNIOR ARCHITECTURAL ASSISTANT required for Architect's Department of Public Works Contractors in South London area; must be good draughtsman, capable of carrying out working drawings under supervision; good prospects; salary up to £300 per annum. Apply to Architect, E. O'Sullivan, Limited, Cray Avenue, St. Mary Cray, Kent. Phone: Orpington 3737. 1573

PART-TIME ASSISTANCE required; applicants should be able to prepare working drawings and specifications from sketch plan. Write, giving details and hours available, terms. Box 1569.

CIVIL Engineering Contractors require Four Junior and Two Senior qualified ARCHITECTURAL ASSISTANTS, for 2 years' service, Nyasaland; preference to unmarried men or those without family ties; salary up to £900 per annum for competent, qualified, and suitable applicants. Apply in writing, giving full particulars of qualifications and experience, Trevor Construction Co., Ltd., 75, Victoria Street, S.W.1. 1553

JUNIOR ARCHITECTURAL ASSISTANT required urgently. Apply, stating age, qualifications, experience, salary required, etc., with testimonials, to Buttrick & Buttrick, F./A.R.I.B.A., 43, Oswald Road, Scunthorpe, Lincolnshire. 1570

EXPERIENCED SENIOR ARCHITECTURAL ASSISTANT, A.R.I.B.A., required for large Bristol office; excellent opportunity and prospects for suitable applicant; permanency. Apply in first instance, stating age and experience, to W. H. Watkins, Gray, F.F.R.I.B.A., & Partners, 19, Grosvenor Place, London, S.W.1. 1566

QUALIFIED ARCHITECT'S ASSISTANT urgently required for Windsor office; thoroughly conversant with commercial buildings. State age and salary to Box 1560.

MARTIN, MARTIN & W. H. WARD, 106, Colmore Row, Birmingham, 5.—ARCHITECTURAL ASSISTANT, experienced, required by above. Write, stating age, experience, and qualifications. 1576

SEELY & PAGET, F./L.R.I.B.A., require fully qualified ASSISTANT; must be experienced working drawings and specifications, with sound knowledge of all normal methods of construction; licensed work now in hand includes many important Ecclesiastical commissions. Apply by letter giving usual details to 41, Cloth Fair, E.C.1. 1581

QUALIFIED ARCHITECTURAL ASSISTANT required for Liverpool area; practical building experience essential. Write, giving details of experience and salary required, to Box No. 444, S. C. Peacock, Ltd., 21, Leigh Street, Liverpool, 1. 1582

ASSISTANT QUANTITY SURVEYOR.—Imperial Chemical Industries, Ltd., Alkali Division, Northwich, Cheshire, require an ASSISTANT QUANTITY SURVEYOR; experience necessary in taking-off, abstracting, billing and pricing, building and civil engineering works. Applications, giving full particulars, should be submitted to the Staff Manager, address as above. 1585

HIGH CLASS JOINERY FLUSH DOORS AND PRECISION WOODWORK R. CATTLE LIMITED

(Established 70 years)

EVERITT RD., CHASE RD., NORTH ACTON, N.W.10

TELEPHONE: ELGAR 5411 (4 LINES)

ARCHITECTURAL ASSISTANTS above Inter. standard required for busy N.E. London office. Box 1543.

ARCHITECTURAL ASSISTANT required in office in Central London in connection with practical development of new and approved type of concrete construction; must be good draftsman and have had some experience of building works; salary according to experience. Reply to Box 1586.

SENIOR ARCHITECTURAL ASSISTANT required; experience of modern Hospital work desirable; Bloomsbury area; 5-day week. Write, stating age, experience, and salary required. Box 656, c/o 7, Coptic Street, W.C.1. 1593

WELL-KNOWN Coventry Motor Manufacturer requires an **ARCHITECTURAL ASSISTANT** and an **ARCHITECTURAL DRAUGHTSMAN** for interesting and varied work. Write, stating age, experience, and salary required, to Box 1594.

ARCHITECT'S ASSISTANT required in busy Croydon office; intermediate standard or over; must be good draughtsman; salary according to experience and capabilities. Box 1595.

WANTED URGENTLY.—Fully qualified **ARCHITECT AND SURVEYOR** for busy Office in a South Lancashire town; good prospects and possibility of early Partnership. Apply, stating age, salary required, and full particulars to Box 1597.

ARCHITECTS.—SENIOR AND JUNIOR ASSISTANTS required for Dublin office; good prospects for suitable applicants; reply, stating qualifications, experience, age, and salary required; interview in London will be arranged. Box 1591.

QUANTITY SURVEYOR required by Architects in South Yorkshire; to be solely responsible with assistance for preparations of Bills of Quantities, measuring and adjusting variations on Contracts, and other Surveyor's work; liberal basic salary in accordance with experience and capabilities, with profit-sharing interest to first-class man. Apply by letter, giving brief details of experience and qualifications, Box 1464.

JUNIOR ASSISTANT required in Architect's office of large company in the City; applicants must be good draughtsmen, with knowledge of construction; capable of preparing accurate surveys, also working and detail drawings. Write, stating age, experience, and salary required. Box 1512.

ARCHITECTURAL ASSISTANT required, intermediate to Final standard, in busy office with all-round practice; cannot offer house, but private building licences available. Write, stating age, experience, training, and present salary, Naylor, Sale & Widdows, St. Mary's Chambers, St. Mary's Gate, Derby. 1505

AN expanding Middle East Oil Company urgently requires an **ASSISTANT ARCHITECT** in the London office, for the execution of sketch and working drawings connected with any architectural items required; should be up to senior architectural standard; A.R.I.B.A. preferable; not less than 7 years in drawing offices engaged on housing schemes, public buildings, town planning, etc.; knowledge of Middle East architectural practice, climatic difficulties, materials, is an advantage; some knowledge of reinforced concrete and specialised construction, including the "Bellrock" system, desirable; age 24-40; salary £500-£750 per annum, according to age and experience. Write, giving brief details for application form, and quoting LO 125, to Box "Z.F." c/o J. W. Vickers & Co., Ltd., 7/8, Great Winchester Street, London, E.C.2. 1534

ARCHITECTURAL ASSISTANT required, experienced in industrial work and working drawings. Write, stating salary and experience, to L. G. Mouchel & Partners, Ltd., 38, Victoria Street, S.W.1. 1603

ARCHITECTURAL ASSISTANTS required (Senior and Junior); Seniors must have reached Finals standard and Juniors Intermediate; houses available if married; salary according to experience. Full particulars to Box 1602.

EXPERIENCED ARCHITECTURAL ASSISTANT wanted, Eastern Counties; good salary offered dependent on experience and qualifications. Apply, Box 1601.

FULLY trained SENIOR ARCHITECTURAL ASSISTANT wanted immediately; able to prepare complete working drawings from architect's sketches, and to assimilate and apply the best in contemporary design. Write, stating age, experience, salary required, Box 1613.

Architectural Appointments Wanted

BRIXTON School Building Student, married (28), ex-Intelligence Corps, seeks employment with West End, City, South London Architects or Drawing Office; also experienced touch typist and all clerical duties; modest salary. Box 234.

JUNIOR ASSISTANT (20), taking Inter. June; testimonies of Study approved: surveying, levelling, etc.; immaculate draughtsman; own car; Midlands preferred; salary required, £300 p.a. Box 237.

ARCHITECT'S ASSISTANT (age 26), Student R.I.B.A., with 6 years' actual office experience in connection with factories, offices, flats, housing, etc., requires short-term employment from 25th March to 25th April; working drawings, 1/2 in. and f.s. details, surveys, etc.; now attending A.A. for Final R.I.B.A. Please write Box 235.

ARCHITECTURAL ASSISTANT offers services in East Anglia. Reply Box 236.

CHARTERED ARCHITECT, had 14 years' experience, seeks progressive post that requires initiative and drive; salary £750; South preferred. Box 238.

Other Appointments Vacant

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

DRAUGHTSMAN required immediately in office in Bedfordshire; able to make surveys and prepare working drawings; salary according to experience. Write particulars to Box 1484.

JUNIOR ARCHITECTURAL DRAUGHTSMAN required for Industrial Concern in South-Eastern England. Write to Box 1483 stating qualifications.

DRAUGHTSMEN required by firm in outer (West) London; 5-day week; canteen and transport facilities; excellent prospects; knowledge of pre-cast concrete an advantage, but not a necessity; salary according to ability. Write stating age, experience, etc., to Box 1471.

CHIEF LABOUR OFFICER required for a large Chemical and Mechanical Erection contract in Scotland; experience in wage negotiation an advantage; good salary and prospects for the right man. Apply, giving details of training, experience, salary, age, etc., to Costain-John Brown, Ltd., Dolphin Square, London, S.W.1. 1564

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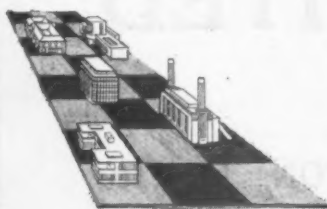
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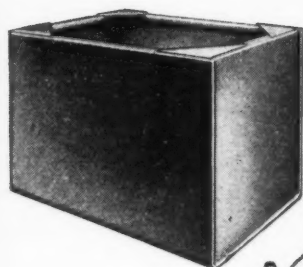
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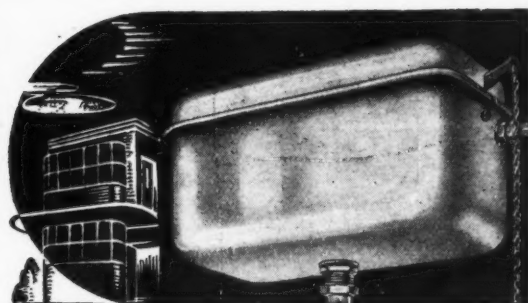
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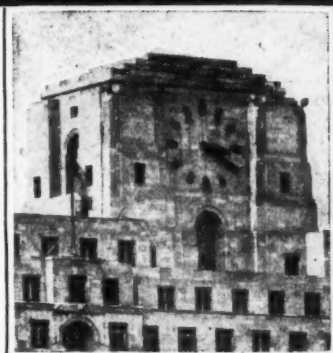
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