

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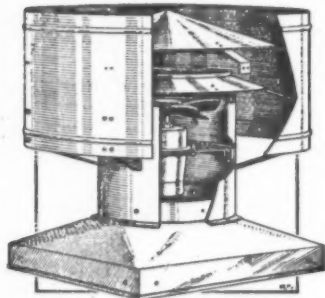
★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to I one week, Ie to Z the next. In all cases where the town is not mentioned the word LONDON is implicit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

IEE	Institution of Electrical Engineers.	Savoy Place, W.C.2.	Temple Bar 7676
IES	Illuminating Engineering Society.	32, Victoria Street, S.W.1.	Abbey 5215
IGE	Institution of Gas Engineers.	1, Grosvenor Place, S.W.1.	Sloane 8606
IHVE	Institution of Heating and Ventilating Engineers.	75, Eaton Place, S.W.1.	Sloane 3158
IIBD	Incorporated Institute of British Decorators.	Drayton House, Gordon Street, W.C.1.	Euston 2450
ILA	Institute of Landscape Architects.	12, Gower Street, W.C.1.	Museum 1783
I of Arb.	Institute of Arbitrators, 35/37, Hastings House,	10, Norfolk Street, Strand, W.C.2.	Temple Bar 4071
IOB	Institute of Builders.	48, Bedford Square, W.C.1.	Museum 7197
IR	Institute of Refrigeration.	Empire House, St. Martin's-le-Grand, E.C.1.	Monarch 7391
IRA	Institute of Registered Architects.	47, Victoria Street, S.W.1.	Abbey 6172
ISE	Institution of Structural Engineers.	11, Upper Belgrave Street, S.W.1.	Sloane 7128-29
IWA	Inland Waterways Association.	11, Gower Street, W.C.1.	Museum 9200
LIDC	Lead Industries Development Council.	Eagle House, Jermyn Street, S.W.1.	Whitehall 7264
LMBA	London Master Builders' Association.	47, Bedford Square, W.C.1.	Museum 3891
MARS	MARS Group (English Branch of CIAM).	34, Gordon Square, W.C.1.	Euston 2158-9
MOA	Ministry of Agriculture and Fisheries.	55, Whitehall, S.W.1.	Whitehall 3400
MOE	Ministry of Education.	Curzon Street House, Curzon Street, W.1.	Mayfair 9400
MOH	Ministry of Health.	Whitehall, S.W.1.	Whitehall 4300
MOLNS	Ministry of Labour and National Service.	St. James's Square, S.W.1.	Whitehall 6200
MOS	Ministry of Supply.	Shell Mex House, Victoria Embankment, W.C.	Gerrard 6933
MOT	Ministry of Transport.	Berkeley Square House, Berkeley Square, W.1.	Abbey 7711
MOTCP	Ministry of Town and Country Planning.	32-33, St. James's Square, S.W.1.	Whitehall 8411
MOW	Ministry of Works.	Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalte Mine-Owners and Manufacturers Council.	94, Petty France, S.W.1.	Abbey 1010
NAS	National Association of Shopfitters.	9, Victoria Street, S.W.1.	Abbey 5277/8
NBR	National Buildings Record.	37, Onslow Gardens, S.W.7.	Kensington 8161
NCBMP	National Council of Building Material Producers.	2, Caxton Street, S.W.1.	Abbey 5111
NFBTE	National Federation of Building Trades Employers.	82, New Cavendish Street, W.1.	Langham 4041
NFBTO	National Federation of Building Trades Operatives, Federal House,	Cedars Road, Clapham, S.W.4.	Macaulay 4451
NFHS	National Federation of Housing Societies.	13, Suffolk St., S.W.1.	Whitehall 2881/2/3
NHBRC	National House Builders Registration Council.	82, New Cavendish Street, W.1.	Langham 4041
NPL	National Physical Laboratory.	Head Office, Teddington.	Molesey 1380
NSAS	National Smoke Abatement Society.	Chandos House, Buckingham Gate, S.W.1.	Abbey 1359
NT	National Trust for Places of Historic Interest or Natural Beauty.	42, Queen Anne's Gate, S.W.1.	Whitehall 0211/2
PEP	Political and Economic Planning.	16, Queen Anne's Gate, S.W.1.	Whitehall 7245
RCA	Reinforced Concrete Association.	94, Petty France, S.W.1.	Whitehall 9936
RIAS	Royal Incorporation of Architects in Scotland.	15, Rutland Square, Edinburgh.	Edinburgh 20396
RIBA	Royal Institute of British Architects.	66, Portland Place, W.1.	Welbeck 5721
RICS	Royal Institution of Chartered Surveyors.	12, Great George St., S.W.1.	Whitehall 5322
RFAC	Royal Fine Art Commission.	22A, Queen Anne's Gate, S.W.1.	Whitehall 3935
RS	Royal Society.	Burlington House, Piccadilly, W.1.	Regent 3335
RSA	Royal Society of Arts.	6, John Adam Street, W.C.2.	Temple Bar 8274
RSI	Royal Sanitary Institute.	90, Buckingham Palace Road, S.W.1.	Sloane 5134
RIB	Rural Industries Bureau.	35, Camp Road, Wimbledon, S.W.19.	Wimbledon 5101
SBPM	Society of British Paint Manufacturers.	20, Piccadilly, London, W.1.	Regent 6347
SCR	Society for Cultural Relations with the USSR.	14, Kensington Square, London, W.8.	Western 1571
SE	Society of Engineers.	17, Victoria Street, Westminster, S.W.1.	Abbey 7244
SFMA	School Furniture Manufacturers' Association.	30, Cornhill, London, E.C.3.	Mansion House 3921
SIA	Structural Insulation Association.	14, Moorgate, London, E.C.2.	Central 4444
SIA	Society of Industrial Artists.	Room 243, Empire House, St. Martin's-le-Grand, E.C.1.	Metropolitan 8344
SNHTPC	Scottish National Housing & Town Planning Council.	Hon. sec., Robert Pollock, Town Clerk, Rutherglen.	55, Great Ormond Street, W.C.1.
SPAB	Society for the Protection of Ancient Buildings.	55, Great Ormond Street, W.C.1.	Holborn 2646
TCPA	Town and Country Planning Association.	28, King Street, Covent Garden, W.C.2.	Temple Bar 5006
TDA	Timber Development Association.	75, Cannon Street, E.C.4.	City 4771 (6 lines)
TPI	Town Planning Institute.	18, Ashley Place, S.W.1.	Victoria 8815
TTF	Timber Trades Federation.	81, Cannon Street, E.C.4.	City 1476
WDC	War Damage Commission.	Devonshire House, Mayfair Place, Piccadilly, W.1.	Mayfair 8866
WEDA	Welfare Equipment Development Association.	61, St. Paul's Churchyard, E.C.4.	City 4263/4
ZDA	Zinc Development Association.	Lincoln House, Turl Street, Oxford.	Oxford 47988

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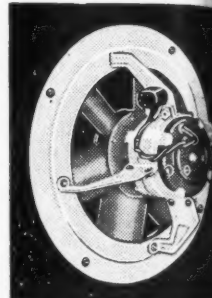
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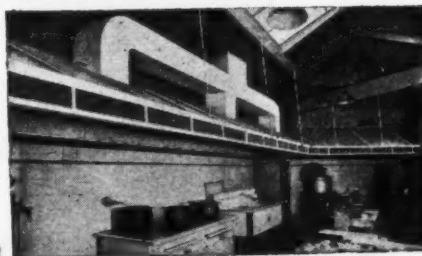
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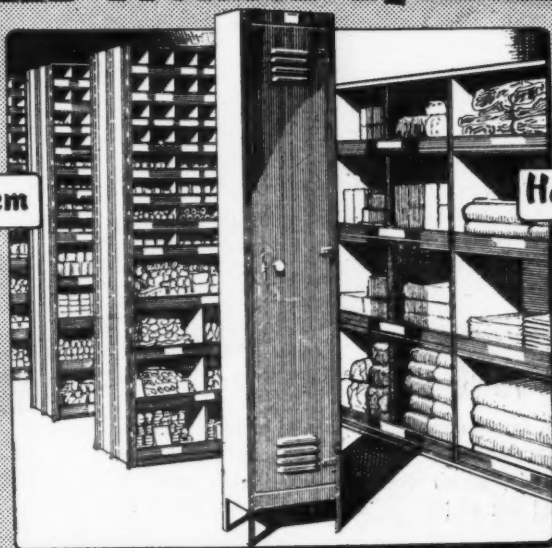
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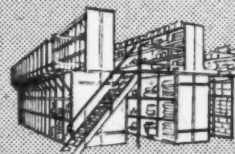
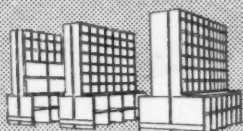
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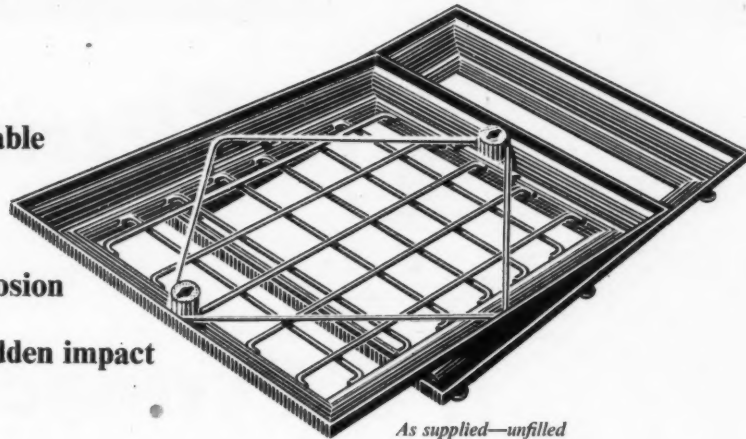
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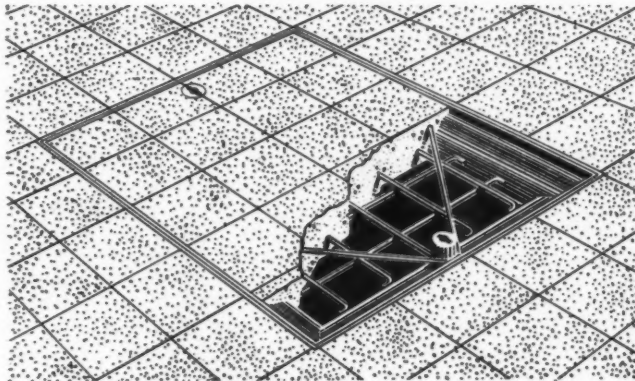
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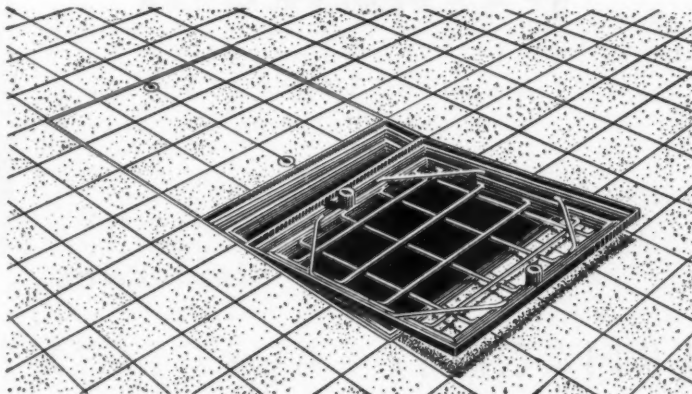
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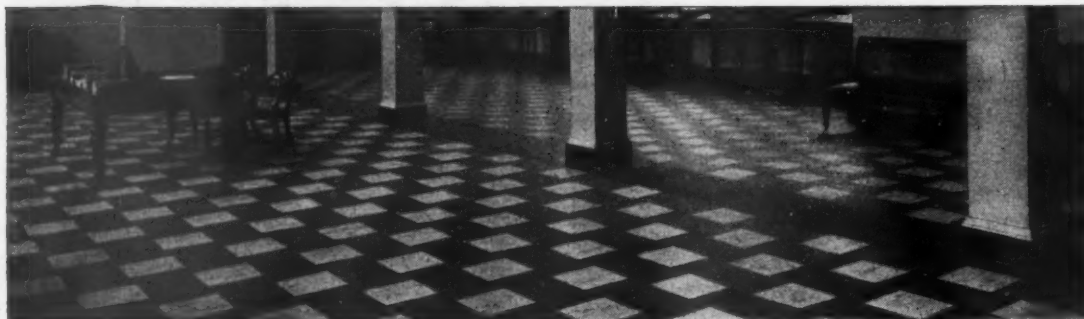
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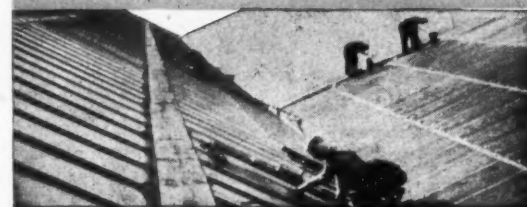
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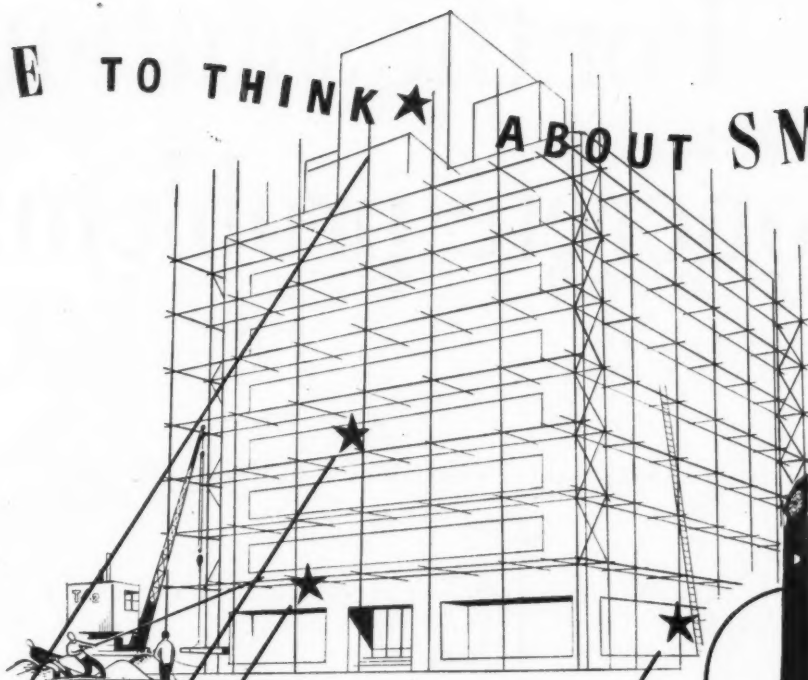
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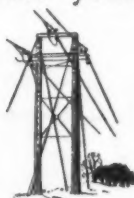
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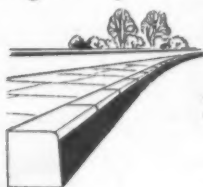
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The *Charlton* 'Twin' is essentially two water heaters in one—one heating unit ensures 6 gallons of very hot water being always available, and a second, booster, heating unit steps up the supply when larger quantities are wanted for baths or clothes washing. By having two independent heating units, the 'Twin' provides all the hot water required at all points without the expense of keeping large quantities constantly heated.

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The design of the *Charlton* 'Twin' is based on the natural tendency of hot water to rise. This enables the water above the top element to be heated to the pre-set temperature, while the water below remains practically cold. Operation of a foot switch brings in the booster heating unit to heat quickly the full contents—15 or 20 gallons according to model.

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hot water*

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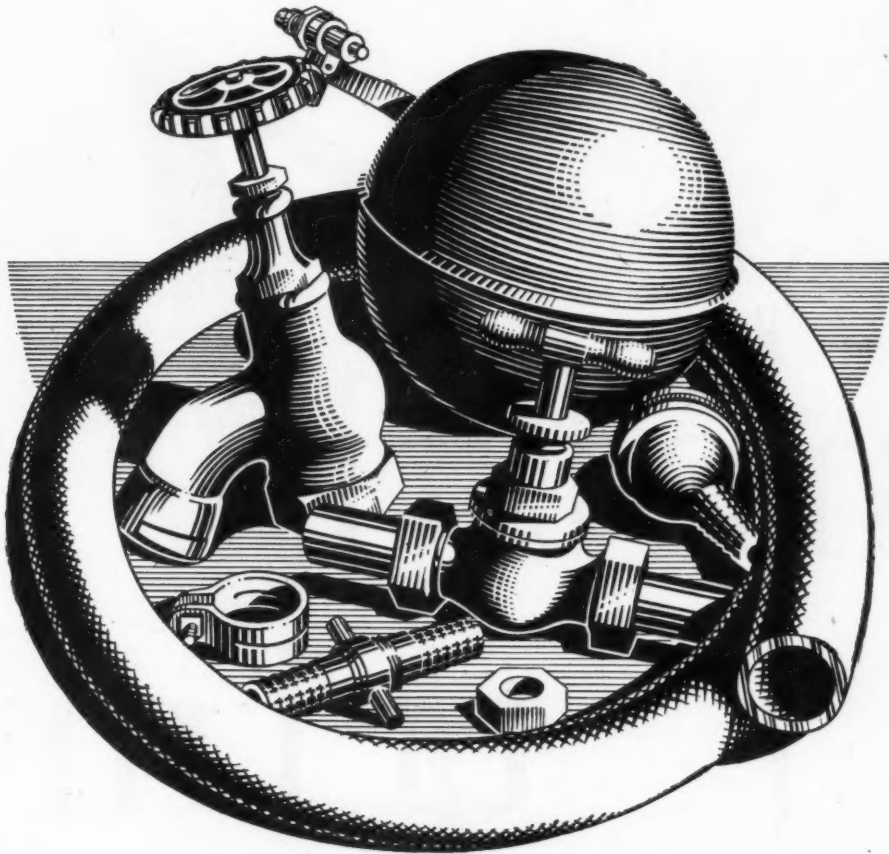
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Supporting brackets are not necessary, as during manufacture the gutters are fitted with cross tubes which allow brass screws to be inserted through the gutter and into the fascia board—thus strengthening both the fixture and the gutter.

The photographs on the left show —

(Above) A complete run, the full length of the house, which was erected in one piece. The fall was then adjusted in one simple operation.

(Below) A complete bay section which was prefabricated on the ground and erected complete.



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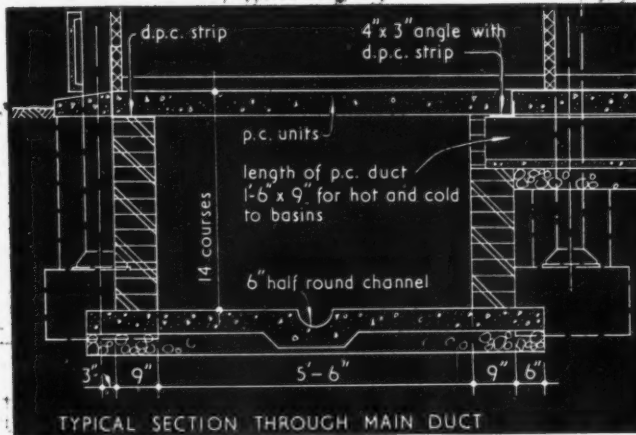
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Architects: F. R. S. Yorke, F.R.I.B.A., E. Rosenberg,
C. S. Mardall, A.R.I.B.A., 35 Welbeck Street,
Contractors: Messrs. Gilbert Ash Ltd., 2 Stanhope Gate, W



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PRE-CAST

but not hidebound



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A.M.Inst.M. & Cy.E., A.M.T.P.I.



Canteen at New Technical College, Brighton.
Architect: P. Billington, A.R.I.B.A., A.M.T.P.I.



Birmingham Executive Council Administrative offices.
Architect: D. A. Goldfinch, F.R.I.B.A., F.R.San.I., Dip.T.P.

Houses at Bromley, Kent.
Borough Engineer: Harold Cliffe, B.Sc.(Eng.) Lond.
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* Many architects specify Orlit framework alone, for example, when the infilling is of brick, but if required, Orlit can supply both framework and cladding. Leaflets describing various applications of the Orlit principle will be sent on request.

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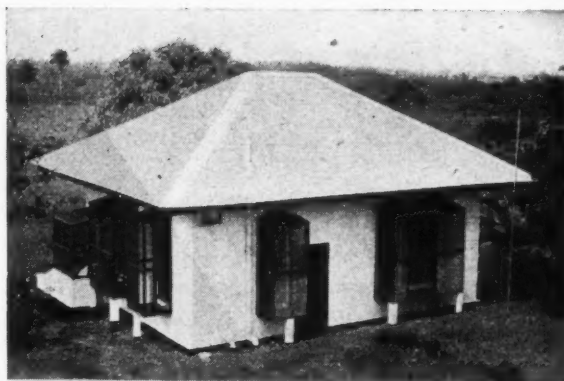
Has Higher Thermal Efficiency

High reflectivity and low emissivity give Rigidal numerous advantages as a material for tropical buildings.

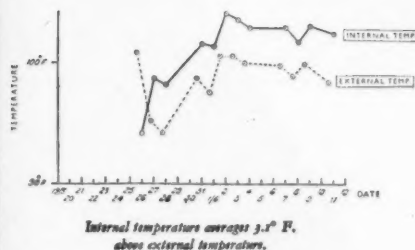
The charts illustrated show the results of recent experiments carried out in Calcutta. From these it can be seen that the internal temperature of a building roofed with single skin Rigidal remains lower and appreciably more constant than that of a building roofed with galvanised iron, subject to a comparable external temperature.

Chart C shows the added heat insulation obtained from double skin Rigidal roofing incorporating a 1" air gap between sheets.

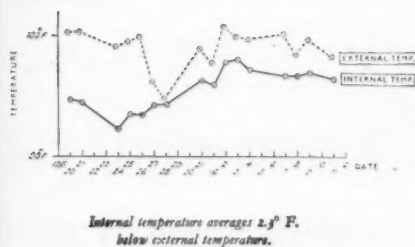
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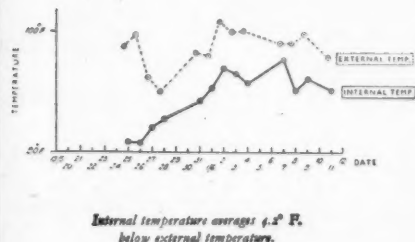
(a)
GALV. IRON
CORRUGATED
SHEET
SINGLE SKIN
HOUSE



(b)
CORRUGATED
ALUMINIUM
SHEET
SINGLE SKIN
HOUSE

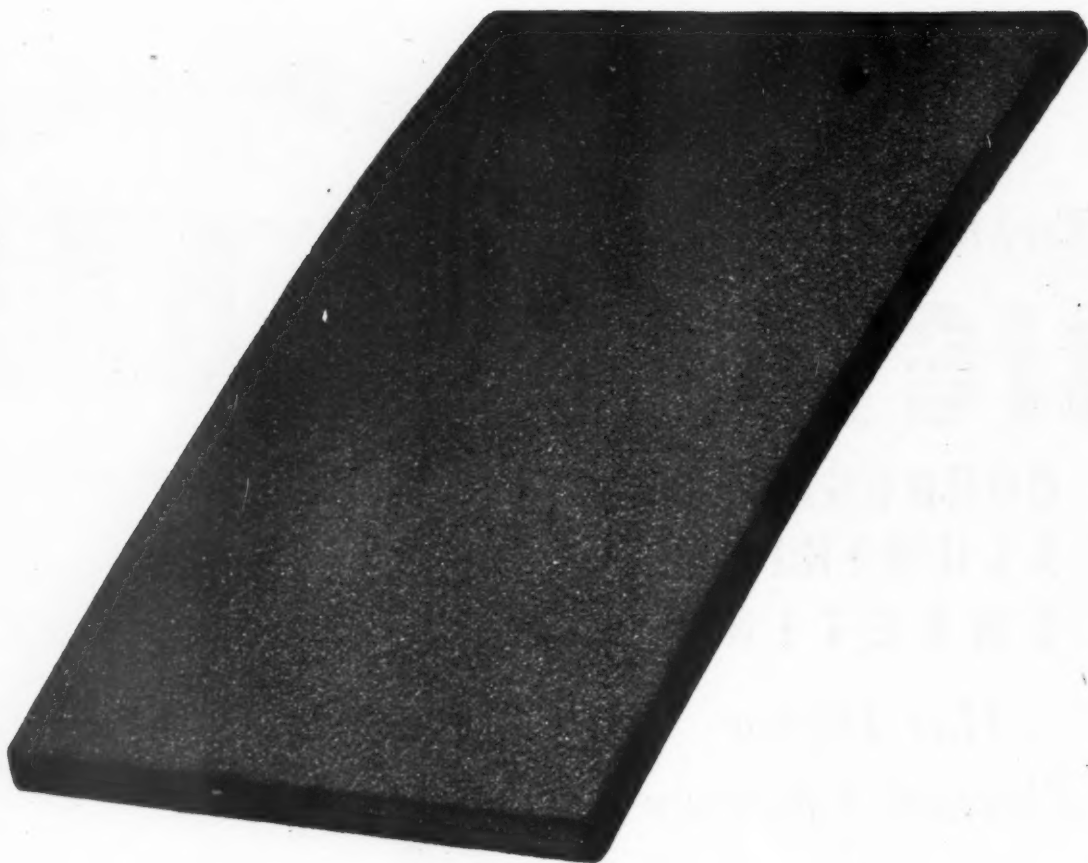


(c)
CORRUGATED
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SHEET
DOUBLE SKIN
HOUSE



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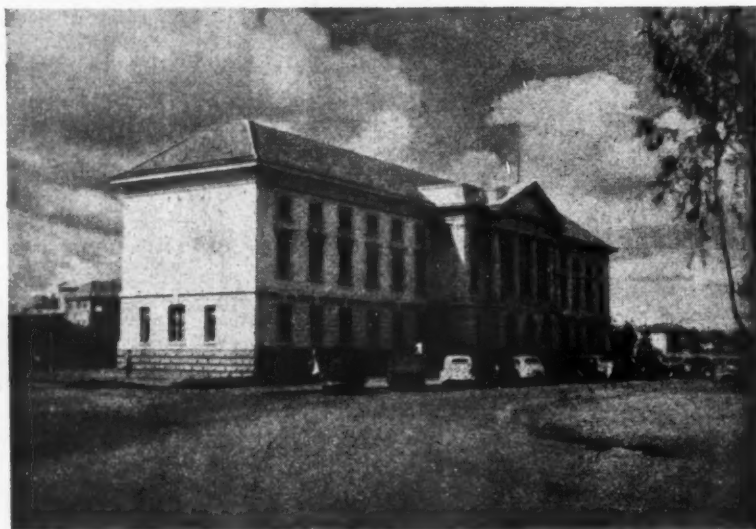
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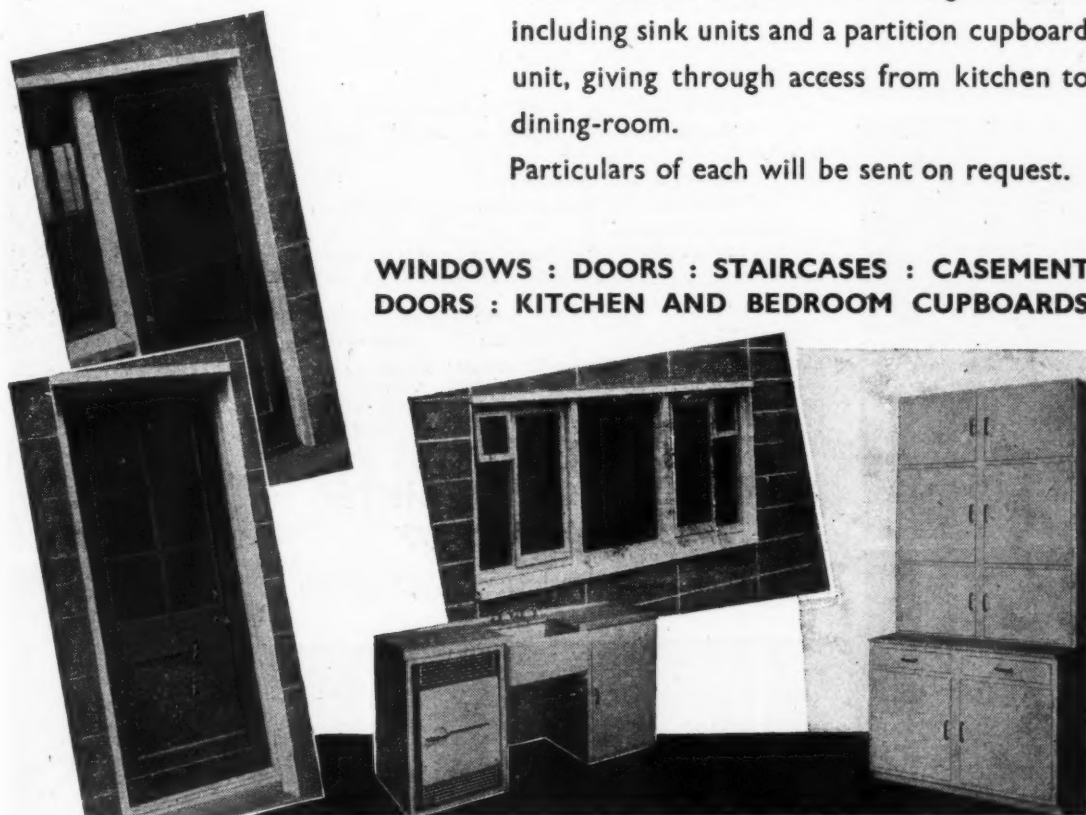


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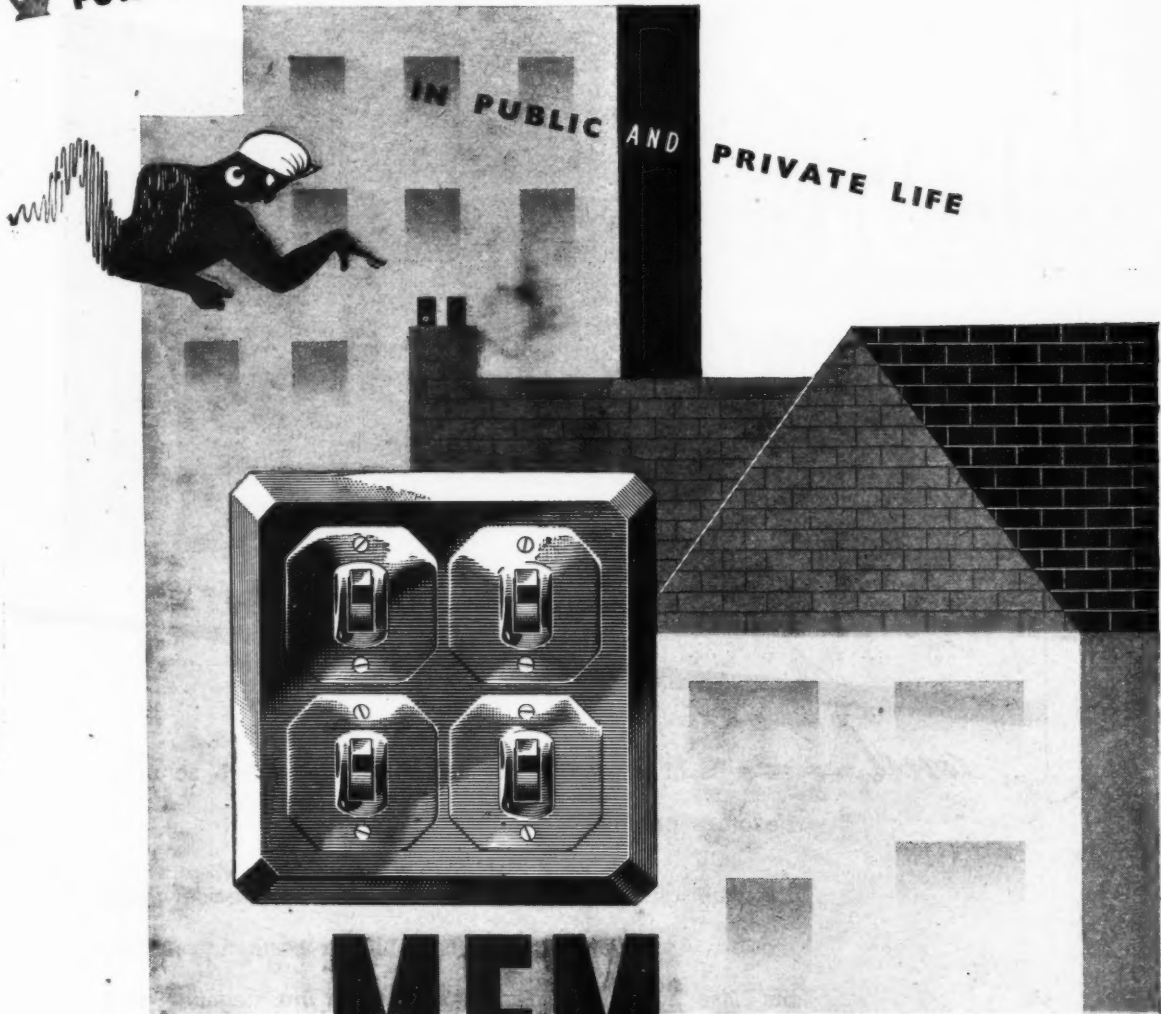
Fleetwood Architectural Service Department offers free help and advice to all Architects and Trade Users. A lavishly illustrated brochure may be obtained from leading Builders' Merchants and from Fleetwood Paints Ltd., at 2/6 a copy. It answers all questions dealing with 'Plastex'.

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SOME sort of lock fastening has been required and made since the days when doors first came to be used, so it may be said that the trade has developed in an evolutionary manner over the centuries.

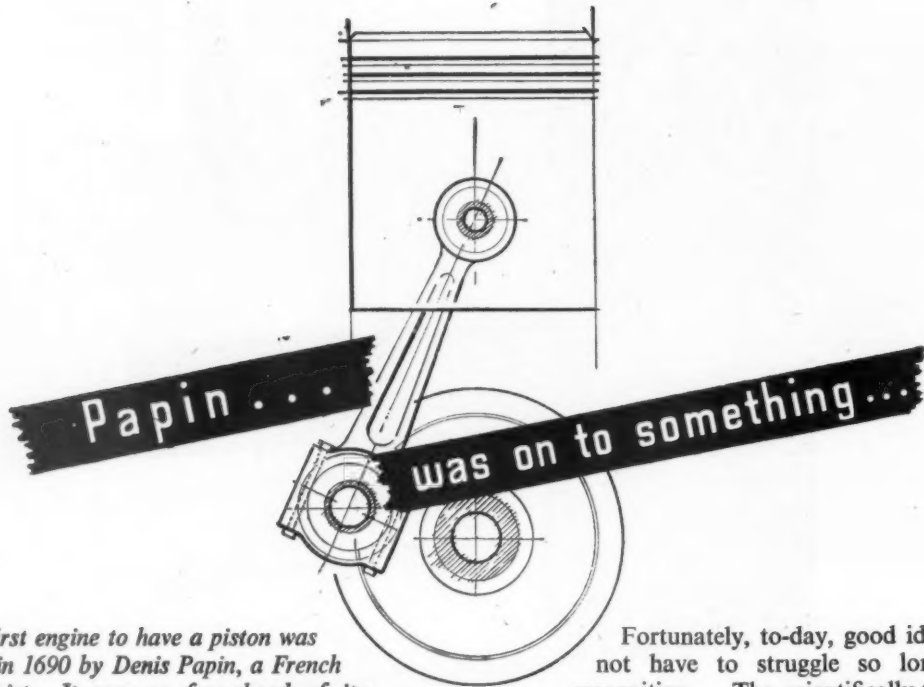
The lock we now illustrate has been made for 2,000 years in this form and it embodies the principles of the modern **UNION** cylinder lock. It is of wood embellished with bone inlay; its "case" is 11 1/2" high and 4" wide. The key is bone, 6" long, and in operation lifts tumblers in the lock to a height when they will clear the bolt which can then be withdrawn.

The lock was bought in Zanzibar in 1935 by a Director of the Company.

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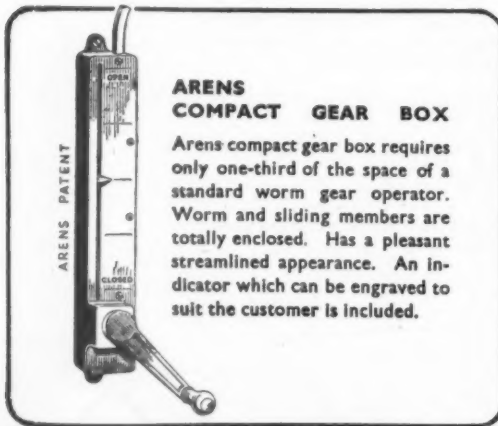
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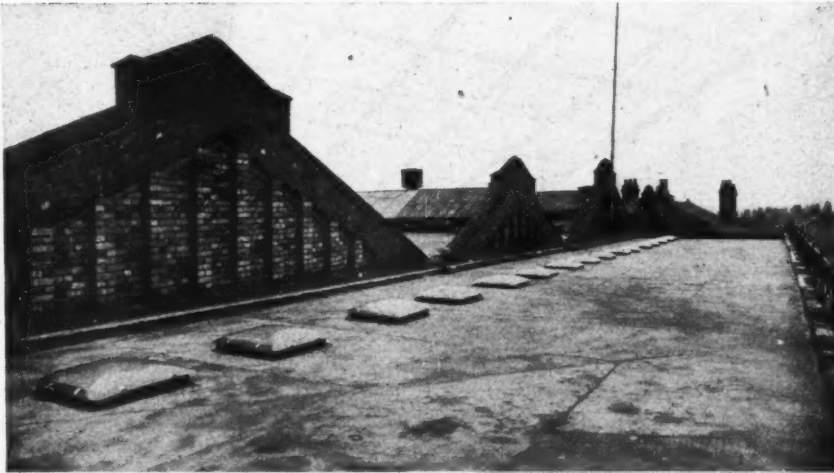
WHITTON WHITE HOUSE JUNIOR & INFANT'S SCHOOL and RUSHMERE HALL SCHOOL, Architects JOHNS & SLATER. In both cases Arens Window Gear was supplied.



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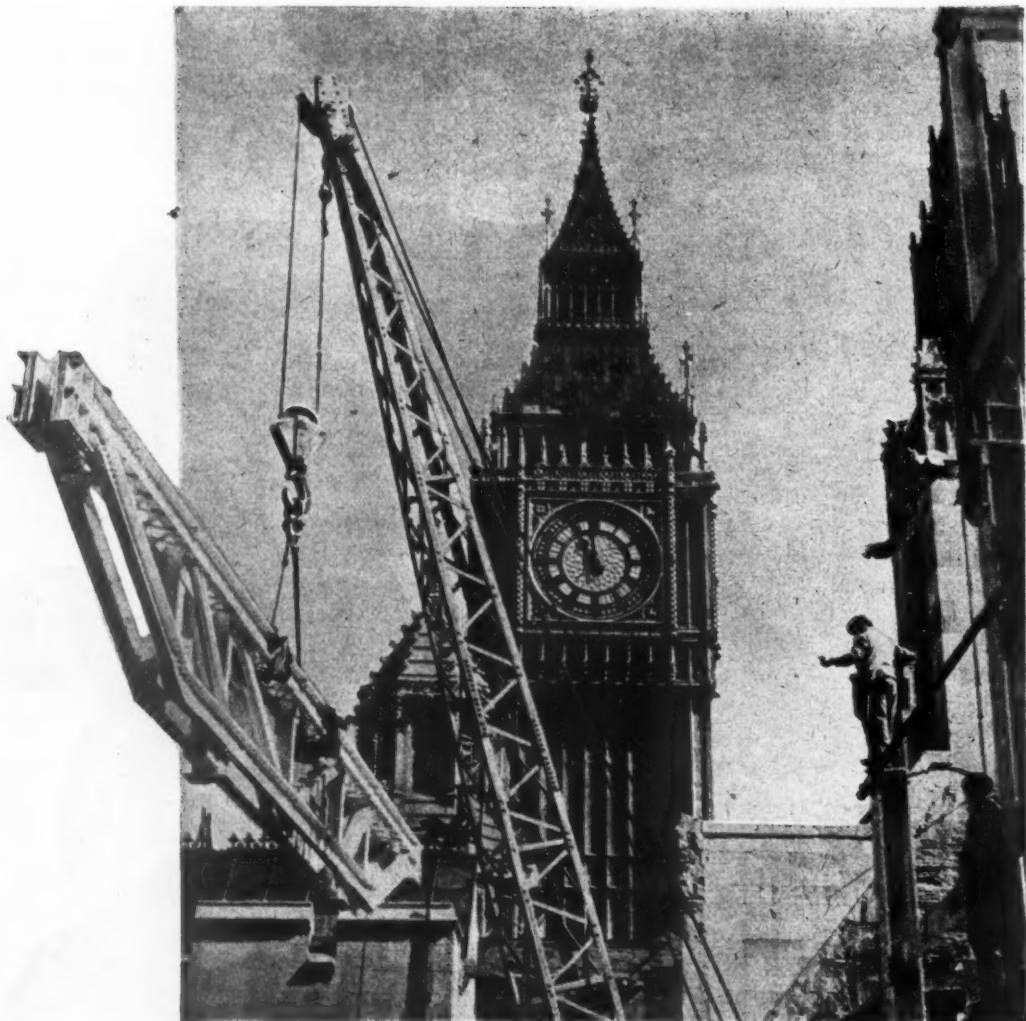


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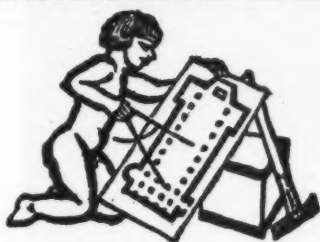
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DIARY FOR JULY AUGUST AND SEPTEMBER

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.

BIRMINGHAM. *Exhibition of Work of Students of College and Schools of Arts and Crafts.* Museum and Art Gallery. (Sponsor, City of Birmingham Education Committee.) Daily, 10.30 a.m. to 6.30 p.m. Sunday, 2 p.m. to 5.30 p.m.
UNTIL JULY 25

HARLECH. *Residential Summer School on Art.* to be held at Coleg Harlech, Harlech, Merionethshire. Details from the Secretary of the College. (Sponsor, Coleg Harlech.) JULY 23-30

LONDON. *Croydon Manufacturing and Industrial Exhibition.* Fairfield Site, East Croydon. (Sponsor, Croydon Chamber of Commerce.) UNTIL JULY 16

Students Exhibition. Work of students of Regent Street Polytechnic School of Architecture, Surveying and Building. At Little Titchfield Street, W.1. Daily, 10 a.m. to 7 p.m.
UNTIL JULY 14

Exhibition of Work of School of Architecture. Polish University College. 21, Princes Gate, S.W.7. 10 a.m. to 6 p.m.
JULY 14-28

Exhibition of the Winning Designs for the Proposed Memorial for the Royal Naval Air Service. Committee Room, 32, Grosvenor Gardens, S.W.1. (Sponsor, Imperial War Graves Commission.) 9 a.m. to 5 p.m. (July 16, 9 a.m. to 12 p.m.)
JULY 14-16 AND 18-20

Furniture Design Conference. At the RIBA, 66, Portland Place, W.1. (Sponsor, CID.) JULY 18-22

One-day Conference on Rent Control and the Condition of Houses. Central Hall, Westminster, S.W.1 10.30 a.m. (Sponsor, HC.) JULY 22

Exhibition of photographs of Old London. by W. A. Clark. At the City of London Guildhall, E.C.2. Weekdays 10 a.m. to 5 p.m., Saturday 10 a.m. to 1 p.m.
UNTIL JULY 30

Exhibition of Industrial Finishes. At Earls Court. (Sponsor, CID.)
AUG. 31-SEPT. 13

NORWICH. *Exhibition of Pre-stressed Concrete Construction.* Blackfriars Hall, Norwich. (Sponsor, MOW.) Weekdays 11 a.m.-6 p.m. (2.30 p.m.-6 p.m. on July 15). JULY 15-20

SOUTHAMPTON. *Design Week organized by the Council of Industrial Design.* Details to be announced locally.
UNTIL JULY 16

ST. ANDREWS. *Town and Country Planning Summer School.* At the University of St. Andrews, Fife. (Sponsor, TPI.) AUGUST 20-27

COMPETITIONS

Industrial Art Bursaries Competition. The Royal Society of Arts. Competition divided into sections for the design of carpets; domestic solid-fuel-burning appliances; dress textiles; electric-light fittings; footwear; furnishing textiles; leather goods; wallpaper. A Bursary of £150 in value is offered for each section. (Two Bursaries in the dress textiles section). Open to full-time, part-time and evening-class students, between 17 and 30 on October 1, who intend to take up industrial design as a career and have studied for not less than one term since July 1, 1948, at an art, architectural, technical, or other college or school approved by the Society for the purpose of the competition. Entry in the domestic solid-fuel-burning appliance section is also open to any draughtsman, clerk, or similar person, within the same age limits, already engaged in the solid-fuel-burning appliances industry, provided that this application is sponsored by the Coal Utilization Joint Council.

Particulars and entry forms may be obtained from the Secretary, Royal Society of Arts, the principals of the schools and colleges concerned, and the Secretary, Coal Utilization Joint Council. The closing date for the receipt of entry forms is August 1.

Competition for Design of Strip Carpet. The IAAS announces that this competition will be open to all architects and architectural students in the United Kingdom and the Commonwealth. It will be divided into three sections: hotels, cinemas and theatres and ships. In each section a first prize of 75 guineas and a second prize of 25 guineas will be awarded. Closing date, October 31, 1949. The last day for questions, September 1, 1949. Assessors, Kenneth J. Lindy, E. C. Leach, and Hurley Robinson. Technical Advisers, John Anderson and J. P. Glass. Details from the General Secretary, 75, Eaton Place, Belgrave Square, S.W.1.

Design of Community Centre. The Incorporated Association of Architects and Surveyors. Two prizes, £150 and £75, for Urban Design. Two prizes, £100 and £50, for Rural Design. Open to all architect members of the IAAS, and to any architect, whether principal or assistant, in the United Kingdom, Northern Ireland and Eire. Closing date, February 1, 1950. Applications to General Secretary, 75, Eaton Place, Belgrave Square, S.W.1.

NEWS

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

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

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

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

A draft designation order for a NEW TOWN AT CWMBRAN, Monmouthshire, has been issued.

The new town is intended to provide housing and proper social and commercial facilities mainly for those employed in the existing and proposed industry sited in the valley between Newport and Pontypool. The present population of the area is about 13,000 and it is proposed to expand by a further 22,000 to a total population of 35,000.

In proposing to use the procedure of the New Towns Act, 1946, the Minister considers that such an increase of population would mean a heavier financial and administrative responsibility than the local authorities concerned could be expected to carry.

Copies of the draft designation Order and maps can be inspected at the offices of the Cwmbran UDC and at the MOTCP. Objections must be lodged by July 25, and all such objections will be considered at a public local inquiry.

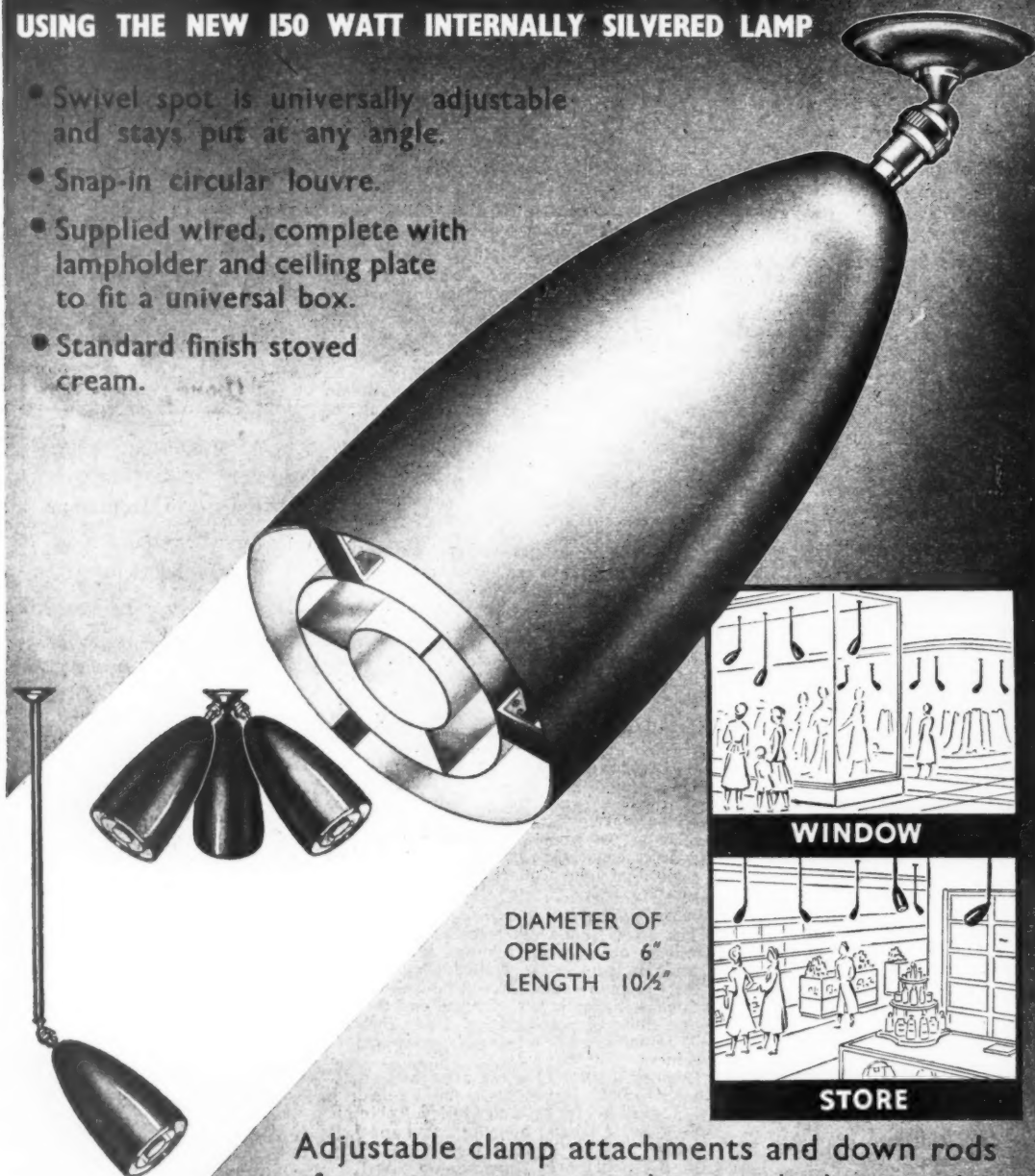


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From AN ARCHITECT'S Commonplace Book

A DILETTANTE. [*From A History of the English House, by Nathaniel Lloyd (Architectural Press).*] Sir John Vanbrugh (1664-1726) is, perhaps, the most notable converted amateur of his period. As soldier, dramatist, and man of fashion, he had attained a high reputation before he appears to have directed his attention to architecture. Except for some small opportunity for the observation of architecture in France, he seems to have plunged into extensive practical work at the age of thirty-six, when the immense structure of Castle Howard was begun. In 1702, he was appointed to the official position of Comptroller of Works, and about the same time became a member of the Board of Directors of Greenwich Hospital, the actual conduct of which works he seems to have taken over from Wren. The minutes of the Board record the labour he expended in revising accounts and otherwise performing the duties of architect. His greatest ability was in his imaginative handling of masses and the production of picturesque effects in which, doubtless, his experience of stage scenery assisted him. His works were on so large a scale as often to be clumsy and detrimental to the proportions of his interiors and to their suitability for practical occupation as dwelling-rooms. However, he learned by experience, and his later works, though no less stately and original, are more practical and restrained than his earlier essays.

Messrs. Michael T. Waterhouse, P.R.I.B.A., Robert H. Matthew, architect to the LCC and Thomas Cuthbertson Hill, chairman of the quantity surveyors' committee of the RICS will be members of a PRO-DUCTIVITY TEAM which the Building Industry is to send to America next month.

Besides architects and quantity surveyors the team will include master builders, civil engineering contractors and craftsmen. Arrangements for the tour have been made by the Anglo-American Council on Productivity.

This team of investigation will be competent to pass judgment on American technique, to examine the quality and cost, as well as the rate of construction, to investigate the influence of industrial practices on the restriction or promotion of output and to report on the extent to which American methods are suitable for adoption in this country with or without modification of existing customs and practices and having regard to British building standards.

The team will sail on July 16 and, after spending six weeks in the United States, will arrive home on September 9. The leader of the team will be Mr. Robert O. Lloyd, senior vice-president of the NFBTE, and the secretary Mr. Charles Gordon Rowlands, secretary of the Employers' Federation. The full membership of the team is as follows:—Supervisory Group: Robert Owen Lloyd, master builder, Lloyd and Cross, Ltd., Birkenhead; Charles Douglas Calverley, civil engineering and building contractor, George Calverley and Sons (Contractors), Ltd., Leicester; Wilfred Horsfall, general builder and contractor, George Horsfall and Son, Liversedge, Yorkshire; Noel Stanley Farrow, civil engineer and building contractor, Howard Farrow, Ltd., London; Robert Stirton Gray, building contractor, Charles Gray (Builders), Ltd., Dundee; Walter Robert Cowen, plumbing and heating contractor, president of the Federation of Associations of Specialists and Sub-Contractors, Brook Green, London.

Technicians' Group: Michael T. Waterhouse, PRIBA; Robert H. Matthew, architect to the LCC; Thomas Cuthbertson Hill, quantity surveyor, J. P. Allen and Hill, Newcastle-on-Tyne; Montague Hamilton Thackray, quantity surveyor, Franklin and Andrews, London.

Workshop Group: James Patrick Bates, plumber, G. N. Haden, Ltd., London; Francis William Beazley, of the NFBTO, London; William James Clarke, plasterer, Lowe, Son and Heyes, Ltd., Bolton; William Robert Johnstone, carpenter and joiner, Dove Bros., Ltd., London; Glynn Lloyd, painter and

decorator, Neath; John Hutton McKechnie, clerk of works and bricklayer, Borough of Motherwell and Wishaw Town Hall.

★★

PLEASURE GARDENS will be provided as part of the 1951 Festival of Britain Programme.

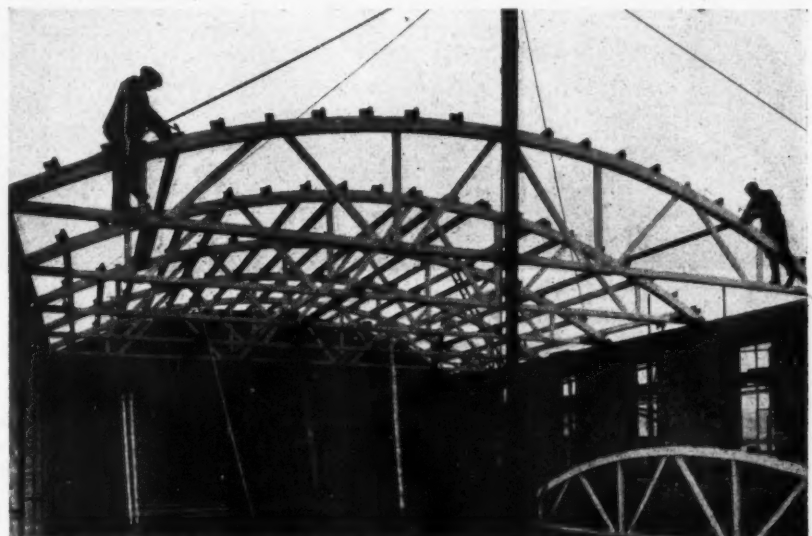
The site selected for these gardens is Battersea Park, and the proposal has now received the support, in principle, of the Government, the LCC and the Metropolitan borough councils of Battersea and Chelsea.

The site for the South Bank Exhibition, which is only about 30 acres in area, is small by comparison with other exhibitions held in the world's capitals, and this space alone will not allow for the provision of amusement and recreation facilities to the extent which the Council of the Festival of Britain consider essential. It is considered that 37 acres of Battersea Park, adjacent to the river, will provide the ideal site. Incidentally, this area is less than a quarter of the size of the park.

Although detailed plans of the Festival Gardens are still being worked out, some idea can be given of their character. They have been conceived as a complete open-air area of entertainment, providing something for all tastes and all pockets. There

will be an area devoted to the traditional and conventional activities associated with the fairground or amusement park, and in this respect the Festival Office has the full co-operation of the National Amusements Council. Care will be taken to avoid excessive noise. In addition it is hoped that open-air cafés and restaurants will be provided as well as entertainments of various kinds, and that the layout of the whole area will be an outstanding example of landscape gardening and decoration. The use of illumination and water will figure prominently in the layout. Attention is being given to the provision of covered space so that the gardens may be enjoyed in all weathers. The gardens will be open to the public seven days a week for six months, from the beginning of May, 1951.

It is proposed to register a company for the purpose of constructing and operating the Pleasure Gardens. The gross cost is estimated to be of the order of £770,000, of which some £500,000 can be regarded as capital outlay and the remainder maintenance and running costs. Contributions to this cost, in the form of loans to the company, will be made by the Government and by the LCC in a proportion yet to be determined. The loans, which will carry interest, will be repayable out of net revenue. Constructional work will be put out to tender and will probably be commenced next April.



The use of bowstring trusses for the roof of the assembly hall of St. Columba School at Huyton, near Liverpool. The trusses were designed by the Research and Design Department of the T.D.A. in collaboration with the architect, F. X. Velarde.



A Plan for Edinburgh

Last week the survey and plan for Edinburgh was presented to the City Council. Prepared by Professor Abercrombie and Derek Plumstead, this study of the city's problems contains a wealth of ideas which should prove an invaluable stimulus to the development of one of the most romantic cities in the world. Above is an aerial view of Princes Street Gardens, the scene for two of the authors' most striking suggestions. The report proposes that the railway (and station) which runs through the valley, be

electrified, covered in, and used only for local passenger traffic. It also recommends that Princes Street be turned into a three-decker road, the uppermost deck, being the existing road, to be used for servicing and shopping, the middle road would be for car-parking and promenade, and the lowest, lit by a colonnade, would be the by-pass for all through traffic. Beyond the colonnade would lie the redeveloped gardens, which, dominated by the castle and the old town, form a magnificent feature of Edinburgh.

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A competition for a WAR MEMORIAL IN VICTORIA, AUSTRALIA has been announced.

The Trustees of the Victorian National War Memorial have invited competitive designs for the 1939-1945 War Memorial which is to take the form of a great forecourt on the north side of the existing Shrine of Remembrance. This condition is the outcome of a competition held in 1947 for the purpose of obtaining ideas as to the form the memorial should take. The competition is open to architects who served in the Forces during the 1914-18 or 1939-45 wars and who are members of the RIBA, or who are legally registered in Australia or New Zealand. The assessors are Robert S. Demaine, F.R.A.I.A., Marcus W. Martin, F.R.A.I.A., and W. Balcombe Griffiths, M.C., A.R.A.I.A. The premiums are £1,000, £500, and £250, and the last day for submitting designs is October 31, 1949.

NEWS IN BRIEF

The Porch, at Shefford, Bedfordshire, guest house for Chicksands Priory during the reign of Richard III, is being restored by Professor A. E. Richardson for its new owner, Mr. Norman A. Rudd. It is regarded as one of the finest surviving examples of early fifteenth century architecture in the country.

Aldershot Town Council have decided to appoint a committee to consider the future of the Basingstoke Canal. The canal was recently purchased by a committee which intends to develop it commercially and for pleasure purposes.



Last week the Maidstone and District Association of Building Trades Employers presented to the Mayor and Corporation of Maidstone the Letters Patent issued by the Kings of Arms, granting supporters and a crest to be borne with the Borough Arms. The Mayor and Corporation had accepted the Association's proposal for these additions, and their offer to bear the cost. The occasion was a luncheon of the Maidstone and District Association of Building Trades Employers, the Maidstone group of the South Eastern Society of Architects and the Maidstone Chartered Surveyors, in celebration of the fourth centenary of the granting of the first charter to the town. The crest, shown above, is supported on the dexter side by an Iguanodon, chosen because the fossilized remains of this animal were found at Maidstone. This is believed to be the first time a prehistoric animal has been used in heraldry.

EARNINGS AND OUTPUT

TWO years ago this autumn, after lengthy discussions, an agreement was reached between the employers and the operatives in the building industry whereby employers were allowed to introduce some sort of incentives scheme so that the earnings of the operative might be linked with his output. Neither side seemed to view the agreement with wholehearted approval, but output per man hour had fallen to about half the 1939 figure, and an increase in the basic rate of wage had produced little or no improvement. Although employer-operative relations in our industry are good (it is a quarter of a century since there has been any large-scale dispute), there has always been a general feeling that the craftsman should be given ample time to do his job, and that the hurry of piece-work rates or incentives will inevitably lead to poor workmanship. The principle, however, was agreed, and the suggestion put forward was that the operative of average ability should have a reasonable chance of increasing his wages by about 20 per cent., but it was made clear that increased earnings *must* be linked with output, and that any fixed bonus would be merely a disguised wage increase, and not within the terms of the agreement.

Two years was given as a trial period, after which the scheme could be reviewed. What likelihood, then, is there that incentives will continue after this autumn? Two years is a comparatively short time for any industry to evolve a new system of wage payments, particularly when the agreement is permissive and not compulsory, and when large numbers on both sides consider it to be unnecessary or undesirable. On the other hand, there is plenty of evidence in an explanatory memorandum recently issued by the NFBTE that a number of bonus schemes have been put into operation in various parts of the country, and that many operatives welcome the opportunity to earn an extra £2 a week or more. The majority of the schemes now in operation have, as might be imagined, been applied to housing work, where normal outputs are fairly well known and there is thus a sound basis for a standard output on which a bonus can be based. On some of the LCC cottage estates, for instance, a good bonus has been paid, and at the same time there have been savings of up to £48 per house. But it must not be forgotten that a very large percentage of the work done by the industry is concerned with repairs and maintenance, a form of work which all architects know as being notoriously difficult to estimate, and therefore equally awkward when "target costs" have to be agreed with the operative. Yet there are enlightened employers who have bonus schemes in operation for almost all kinds of work, and who maintain that the administrative cost of their schemes are low, while the fact that almost every employee can have a bonus of some sort provides the off site men like storekeepers and lorry drivers with an interest in every job.

At the moment, none the less, too many employers have not

troubled to evolve any sort of scheme, while others merely pay something over the proper rate for the job. At a time when the operatives seem to be viewing the whole system of incentives tolerantly, but with a certain amount of suspicion, such a policy is extremely shortsighted. Incentive schemes, properly applied, can make building less costly. The two-year trial period is coming to an end, and the possible scrapping of the scheme, coupled with a demand for higher wage rates, would not be in the best interests of the building industry.



The Architects' Journal

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LAST MINUTE RUSH

I don't know whether you have all been taking my mid-June advice and persuaded your clients to file at least some sort of claim with the Central Land Board, but quite a lot of people must have been fairly busy, for there were something like 800,000 claims sent in during last month, most of them in the last four days. Nobody, of course, can have any idea of the total sum claimed, if only because many claimants leave the amount blank and sit back hoping for the best, so your guess is as good as mine, if not better. The only safe bet is that the 300 million "global sum" is not going to stretch very far.

FAIR DE LUXE

The recent Midsummer Fair at Cambridge broke out in all the usual glitter and noise and far more than usual sunshine, heat and dust. Astragal, who used to be quite a fair-goer, became involved after an interval quite long enough to make him feel old.

First impression was a sympathy with the annoyance of painters of battles at the invention of smokeless powder. There is now no smoke at a big fair and scenically and from a distance there's no doubt it's a loss. In the gay old 'twenties a great fair at dusk with lights blazing, steam organs full out and smoke billowing away to leeward was a memorable spectacle. It was said that if one approached the Temperance Festival at Newcastle-upon-Tyne from the lee, your best friend wouldn't know you by the time you got among the side-shows; and there was nothing wrong with that. Now all is diesel, electric and amplified.

But the thing that was most impressive was how showmen's housing standards have perked up, or rather hurtled up, in 20 years. In the old days the caravans were romantic and sometimes gawdy, but the details—the back premises, washing on the line and children's clothes—were quite often below middle-class standards. All that is changed now and no mistake. The residential compound on Midsummer Common was almost entirely filled with luxury trailer-caravans, motor caravans, snowy tents and the kind of cars we believe Americans have. And there was a full supporting caste. Nowadays no showman would be seen dead with a bucket. Water is carried, exclusively so far as I saw, in chromium-plated hot water cans, two or three times normal size. And everything else was just right, too.

Fortunately rich decoration and pattern, and plenty of them, are still the rule. Fluted teacups with gold rims, teapots covered with yellow peacocks, capering china horses and blue and gold china clocks were some of the things I remember. Everyone had their collection. Keeping them all unbroken on the road must be a secret which showmen are paid to keep to themselves.

DAM THE EXPENSE

Canals come more and more into the news. A discussion a fortnight ago on the Light Programme about the traditional rose and castle decorations of the canal boats which the new bureaucracy is destroying; the whole July issue of the *Architectural Review* devoted to canals; and now an appeal by the Swinton and Worsley Amenities Society under the presidency of the Earl of Ellesmere for the preservation of the Old Warke Dam and of neighbouring woodland at Worsley on the Bridgewater Canal.

This appeal, which has come to me in the form of a leaflet, states, "Worsley has a secure place in history owing to its connection with the canal and coal enterprises of the Duke of Bridgewater, which stimulated the Industrial Revolution in South Lancashire in the 18th century. The village and its surroundings have in addition a more than local reputation as a beauty spot, and still retain much of their rural atmosphere despite the industrialisation of neighbouring towns. The Old Warke Dam was constructed in the 18th century to be a reserve of water for the Bridgewater canal. In the 1860's, during the Cotton Famine, a system of walks and drives was laid out by the Earl of Ellesmere in the surrounding woods to provide employment for weavers thrown out of work at that time. The woods are now neglected, and the historic dam has silted up. The total area of over 63 acres is involved. The Amenities Society want £3,500 to buy the site and another £3,500 to restore it. Then the property will be transferred to the two local authorities involved and the public will have free access to all parts for ever."

This is obviously a very worthy object, especially as much neighbouring farmland and parkland is likely to disappear as the Manchester Regional Plan develops. The local people will need all the extra green space they can get. Moreover, the dam and the district are of great historic value, as you will understand if you read all about the Bridgewater canal and its progenitors—the Duke and his great self-taught engineer Brindley, in the current *Review*.



Part of the mechanical brain at Manchester University, designed by Professor F. C. Williams and Dr. Thomas Kilburn. See Astragal's comment below.

robot brains of this kind being built to look like the control room of TVA dams—swept and polished floors, impassive dials, meticulous, secretive, precise. “Nothing”—I would comfort myself by saying—“like a human brain at all.” But here at Manchester—doing today as usual what London thinks of tomorrow—is a much less improbable affair: a collection of miscellaneous items, imperfectly adjusted, trailing wires and cables in dusty confusion, patched, casual, obviously liable to impulse, and sudden bouts of ungovernable rage. Clearly the day is not far off when an international conference will not take up the time of Foreign Ministers, but be delegated to a room full of machines, buzzing and winking at each other under the bored eye of a house electrician.

ASTRAGAL

LETTER

Joseph Berger, L.R.I.B.A.

LCC Housing

SIR,—Having designed a number of housing estates for the Municipality of Vienna between 1920 and 1930 and following your invitation, I venture the following comment.

In Vienna we had to work under conditions similar or worse in many respects compared with post-war London. There was a state of near bankruptcy in the country, materials were expensive and in short supply. Yet the layout of housing estates was, on the whole, more generous, the density lower, thus permitting more amenity and landscaping to the surrounds of the building. So that, in spite of the lower standard of the single flat, a slummy atmosphere of gloom and overcrowding, which I think is noticeable in a number of the exhibited schemes, has been avoided.

A major planning evil and a main contributor to the depressing effect of many schemes is the balcony access. The economy thus achieved is too heavy a price paid for it. As a planning principle it is unsocial and symbolises regimentation as an architectural feature. It makes for clumsiness, especially in its standard treatment with brick parapets.

JOSEPH BERGER

IN PARLIAMENT

The proposal for a new town, to be built by Manchester City Corporation at Mobberley in Cheshire, to help deal with the City's overspill population, was strongly criticized by Opposition Members at question time in the House of Commons. Air Commodore A. V. Harvey (Con., Macclesfield) wanted to know how many acres of agricultural land would be lost under the scheme, and said that the land it was proposed to take was the best agricultural land in Cheshire. In

By the way, I hear that the Inland Waterways Association are making a special expedition by narrow boat on the Bridgewater canal on July 23, when they will visit Worsley. If you want to join the party you can do so, but you will have to pay up your guinea subscription first to the Association.

SHOP WINDOW FOR ARCHITECTS?

Having been to have a look at the exhibition of theatre models by the AA students at the Building Centre (see this column, June 16), I am impressed by the need for a gallery where architecture can be exhibited in models, drawings and photographs. It is true that the RIBA holds fairly frequent exhibitions, but these are almost invariably generalized in their scope. They are more in the nature of propaganda for architecture generally rather than a presentation of specific and individual architectural achievements.

There is nowhere in London where a visitor can see what is the latest thing in architecture. New York has its Museum of Modern Art, where ex-

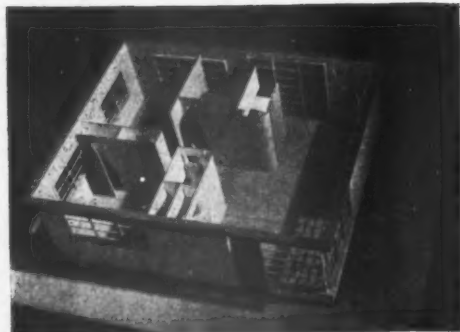
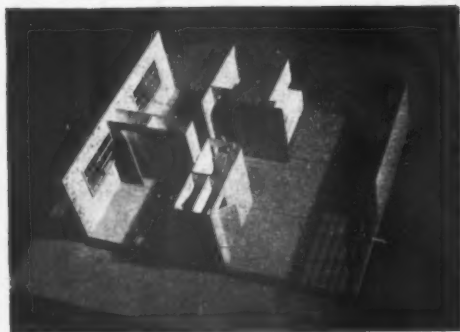
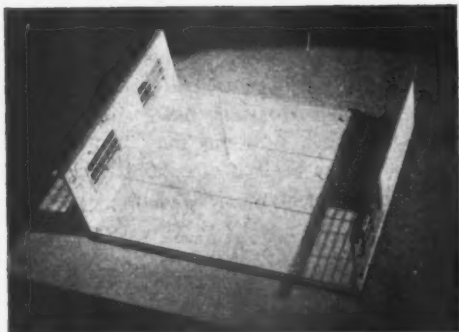
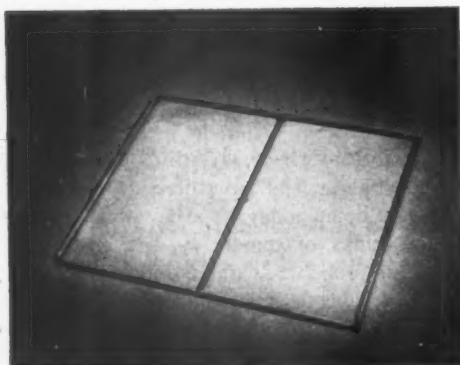
hibitions are held, not only of works by individual architects and groups of architects, but of individual buildings. Perhaps, if it ever gets going, the Institute of Contemporary Arts will be able to do something for the architect. The difficulty about a commercial art gallery is, of course, that architects' works are not saleable across the counter, therefore there is no commission. It might be worth while for the art dealer to make contact with a new public if every now and again he devoted a corner of his gallery to the work of an architect. I hope the RIBA would not object to such an arrangement.

MANCHESTER MONSTER

Reproduced above for those of you who missed its publication recently, is a photograph of the Mechanical Brain put together at Manchester University by Professor F. C. Williams and Dr. Thomas Kilburn, and now being taught, I understand, to play chess.

I don't know how the picture will affect you. I find it horribly convincing. Until seeing it I had imagined

DEVELOPMENTS IN AMERICAN PREFABRICATION



In America new developments in prefabrication are being made in order to produce the high living standard demanded by the American public, with economic and variable designs. On this page are shown, in model form, various stages in the construction of a house designed by Norman Bel Geddes at the instigation of the Revere Copper and Brass Inc. Above, is a typical panel used in varying thicknesses for walls, floor and roof. Wall panels, four inches thick, and floor and roof panels, six inches thick, consist of two metal sheets separated by a core of expanded sheet metal welded to them and filled with insulating materials. The interior surface is covered with plywood. Left, reading from top to bottom of the page, are various stages in the house's construction. The house rests on seven piers placed at the four corners, at the centre of each long wall and at the centre of the plan. Girders span between the piers to carry the wall and floor loads. The second photograph shows the house with the floor units laid and the end walls erected. The units arrive on the site in a finished state and need no further treatment. In the third photograph the interior wall and cupboard units have been put in position. A utility unit containing all bathroom and kitchen facilities connects directly to the gas, electric, water and sewage mains, thereby avoiding any further plumbing installation on the site. The last two illustrations show the concluding stages of the erection of the house.

this difficult time, he argued would it not be more economical to add to the existing towns which already had facilities for roads and surfaces?

Mr. Lewis Silkin, Minister of Town and Country Planning, said that discussions were in progress with a view to minimizing the loss of agricultural land in the course of this development. The exact area to be developed had not yet been settled, and the overspill problem of Manchester was so large that the mere building of one or more towns would not satisfy it. It would be necessary in addition to carry out a policy of enlarging the number of existing towns in Cheshire.

Attacking the proposal from a different angle Mr. Selwyn Lloyd (Con., Wirral) asked whether deep borings would be undertaken before the commencement of any building.

Mr. Silkin replied that he would, of course, satisfy himself, in conjunction with the Manchester City Corporation, whether the proposed site, when it was provisionally settled, was suitable for development; and if he was advised that deep borings were necessary they would be carried out.

Mr. Lloyd then asked if it was not a fact that the deep borings which had taken place on land immediately adjacent to the proposed site had shown thick layers of rock salt. Was it not monstrous to risk public money on a new town in this area without taking deep borings?

Mr. Silkin: "I quite agree, and we are avoiding the areas where there is likely to be salt."

Replying to questions about the school-building programme, the Minister of Education, Mr. George Tomlinson, said that in 1948 a programme of £26 million was carried out in full. For 1949 the target was £50-£55 million, and there was a good prospect that a programme of this size would be carried out.

Mrs. Florence Paton (Lab., Rushcliffe) said the difficulty of local authorities in providing schools was the shortage of school architects. She asked if the Minister had any plan for remedying this shortage.

Mr. Tomlinson said the shortage had been known for some time by the local authorities, and he personally had been impressing upon them the necessity of organizing their appropriate departments to meet the requirements.

Housing costs are tending to fall and there is hope that the position will improve still further, the Minister of Health, Mr. Aneurin Bevan, said when he defended his policy in the House of Commons against Opposition criticism.

The Minister pointed out that costs had already fallen about £10 per house because of the fall in the price of timber and non-ferrous metals. "The final costs of houses are tending to reproduce the tender price," he commented. "That has been stabilizing the position over the last year, and I am hoping that it will improve still further."

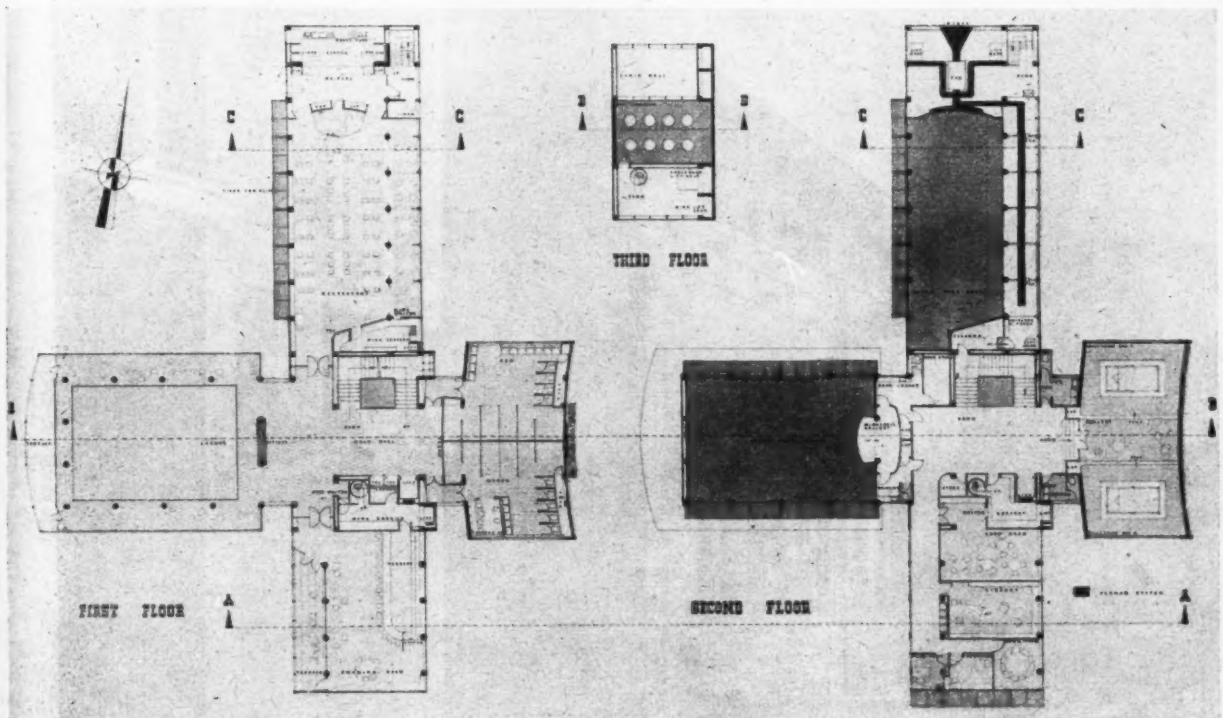
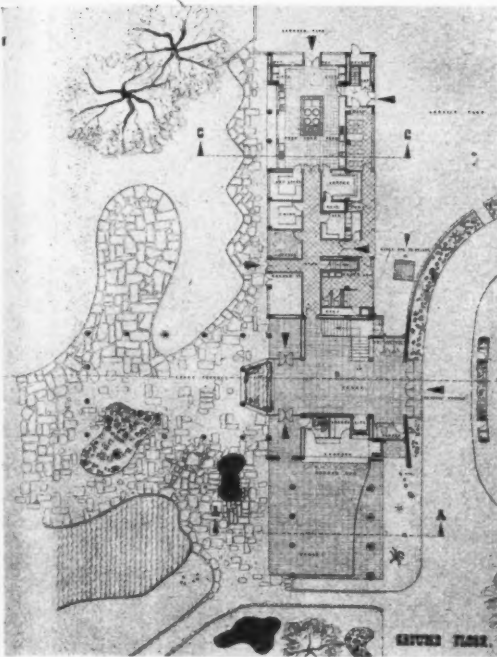
Mr. Walter Elliot (Con., Scottish Universities), who led the Opposition attack on the Minister, declared that with the same labour force as pre-war, the industry was producing a much smaller output of houses. In addition to putting out a much smaller volume of schools, hospitals and repair works. "If ever one could point to a bad deployment of labour here it is," he remarked.

He said that in spite of the Minister's arguments, no individual in the country believed that we were in a better housing position than before the war, and every individual was keenly aware of the terrible pressure which the housing shortage exercised upon the people.

Mr. Bevan claimed that the industry had reached the rate of pre-war days, and when Mr. Elliot blinked in surprise at the statement, he demanded vehemently: "Does he think we are going to count the silly little bungalows built before the war along the

BIRMINGHAM SCHOOL OF ARCHITECTURE

This Thesis design for a Royal Yacht Club Headquarters at Barbados is by Graham Winteringham, a fifth year student. It is on view at the exhibition of the work of the Birmingham College of Arts and Crafts. The exhibition is at the Birmingham Museum and Art Gallery, and closes on July 25.



coast as anything equal to a modern house? They are all along the south and south-east coast of England and eyeshores they are. Builders made a fortune in putting them up, and fortunes are now made in holding them up."

Mr. Bevan also told the House: "Before the end of the year we shall have provided one million homes. We shall be 250,000 beyond the target set by the last Government in March, 1945."

He hoped no pressure would be brought to bear upon the Government to lower housing standards, remarking: "That would be a cruel thing to do. After all, people will have to live in and among these houses

for many years. Enough damage has already been done to the face of England by irresponsible people."

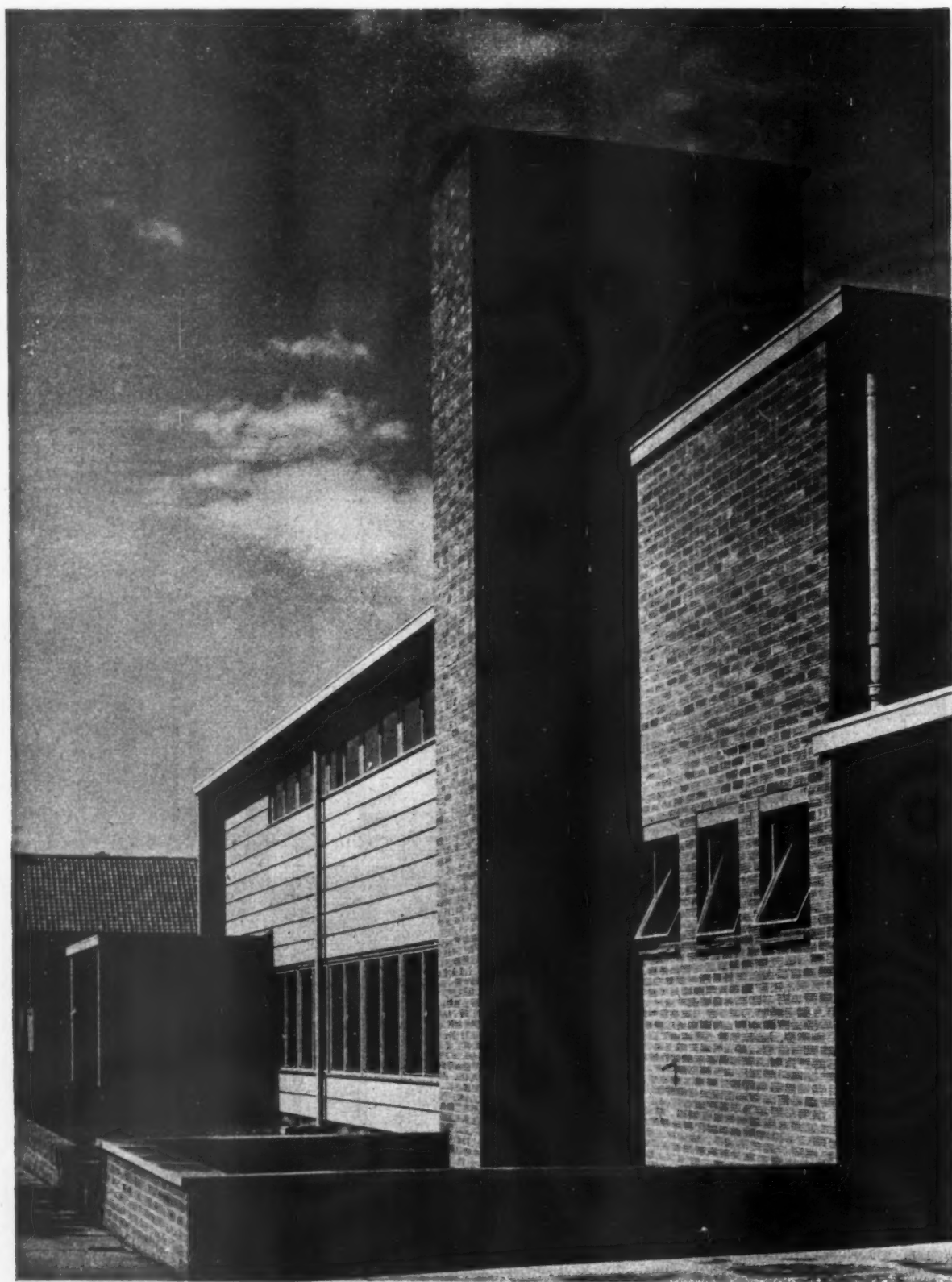
Winding up the debate for the Opposition, Mr. Derek Walker Smith (Con., Hertford) said we had in the waiting lists for houses the most obvious and convincing argument of the failure of the present housing policy.

Although Labour Members were rather bemused by the rhetoric of Mr. Bevan in the House, when they got to their constituencies they would find that private suffering weighed a good deal more than public speaking.

The final word in this lively debate came

from Mr. Arthur Blenkinsop, Parliamentary Secretary to the Ministry of Health, who observed: "If the Opposition had the opportunity they would take us back to periods in which houses were built for sale, many of them being left empty at the same time as my constituents and those from other industrial areas had no houses to go into. We are determined that those whose needs are most urgent shall continue to come first, however strongly Members opposite press the demand of the favoured few."

To demonstrate their dissatisfaction with the housing policy the Opposition moved to reduce the Ministry of Health vote "by £5." They were defeated by 158 votes.



The assembly hall.

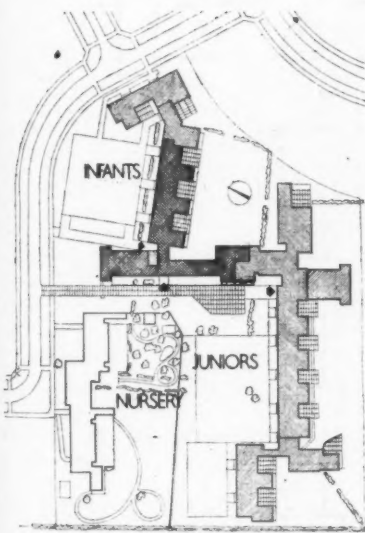
TWO SCHOOLS AT

DESIGNED BY JOHNS & SLATER, CHIEF

1. RUSHMERE HALL JUNIOR & INFANTS' SCHOOLS

GENERAL.—A group of schools to provide accommodation for two-stream Juniors (360), two-stream infants (240) and two Nursery classes (80). The scheme to be built in stages starting with a part of the Infants School as a nucleus. It was desired that the halls may be used for other purposes in evenings. Single-storey structures were required.

SITE.—The total site area is 6.25 acres. Single-storey planning involved covering a large part of the site and it was necessary to arrange the blocks so that the three schools are virtually separated. Shared kitchen facilities are the only link between the Juniors and Infants. Preservation of existing orchard and hedges



■ COMPLETED ▨ 1st STAGE ▤ 2nd STAGE
SITE PLAN

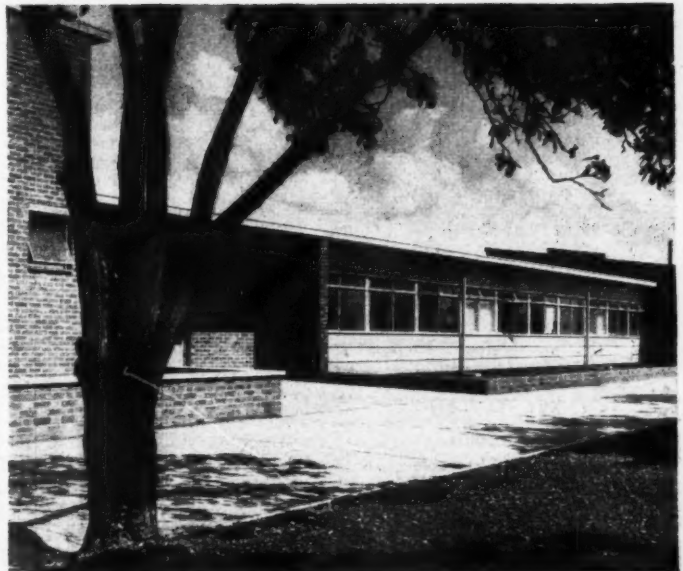
*From the
north-west.*



*From the
south-east.*

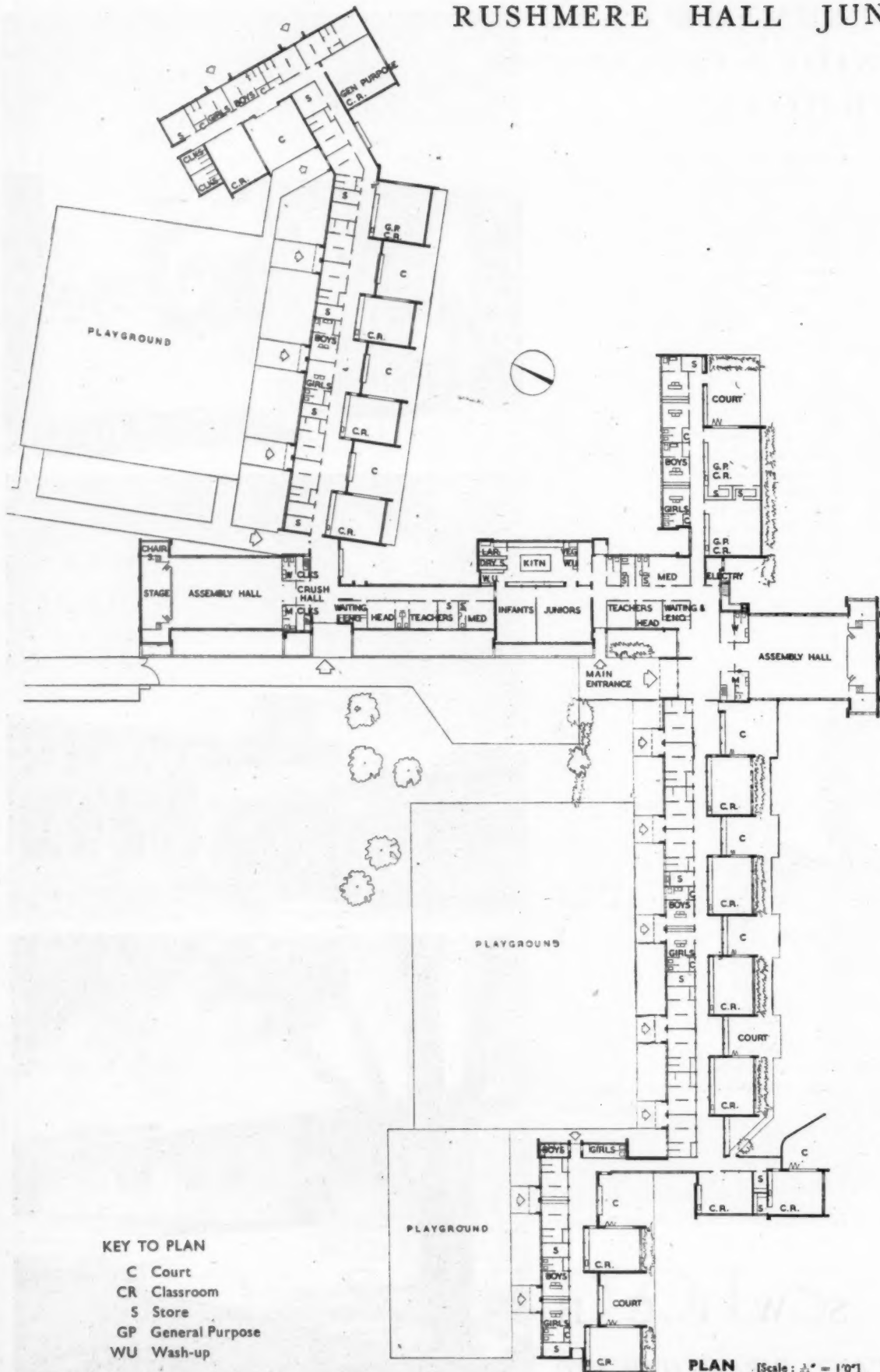


*The adminis-
trative block.*

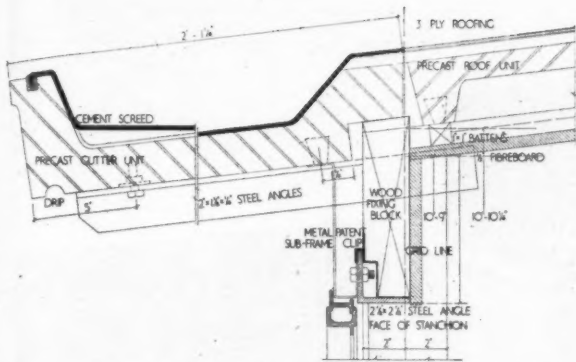


T I P S W I C H
E F ASSISTANT: BIRKIN HAWARD

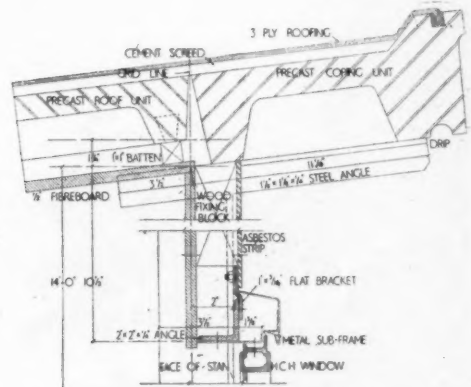
RUSHMERE HALL JUNIOR



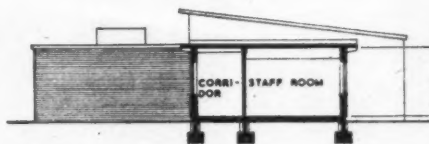
& INFANTS' SCHOOLS : BY JOHNS & SLATER



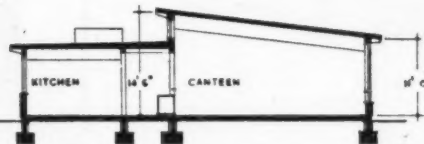
1/2 F.S. SECTION OF LOWER EAVES OF CANTEN



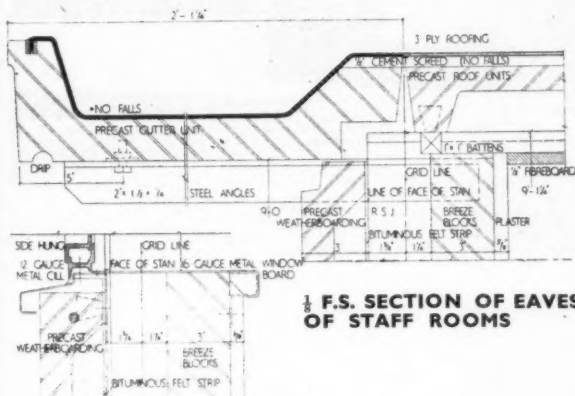
1/2 F.S. SECTION OF UPPER EAVES OF CANTEN



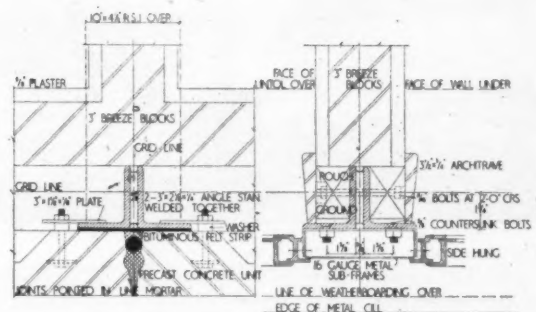
SECTION THROUGH ADMIN. BLOCK



SECTION THROUGH CANTEN [Scale: 1/8\" = 1'0\"]



1/2 F.S. SECTION OF EAVES OF STAFF ROOMS



1/2 F.S. PLAN OF PARTITIONS ABOVE AND BELOW WINDOWS OF STAFF ROOMS

PLAN AT WINDOW LEVEL OF PARTITIONS BETWEEN STAFF ROOMS

SECTION OF WINDOW CILL

on the site were important considerations in the layout. Classroom wing of Infants' School is placed so as to preserve the main hedge, and the orchard is retained to serve as the nursery garden.

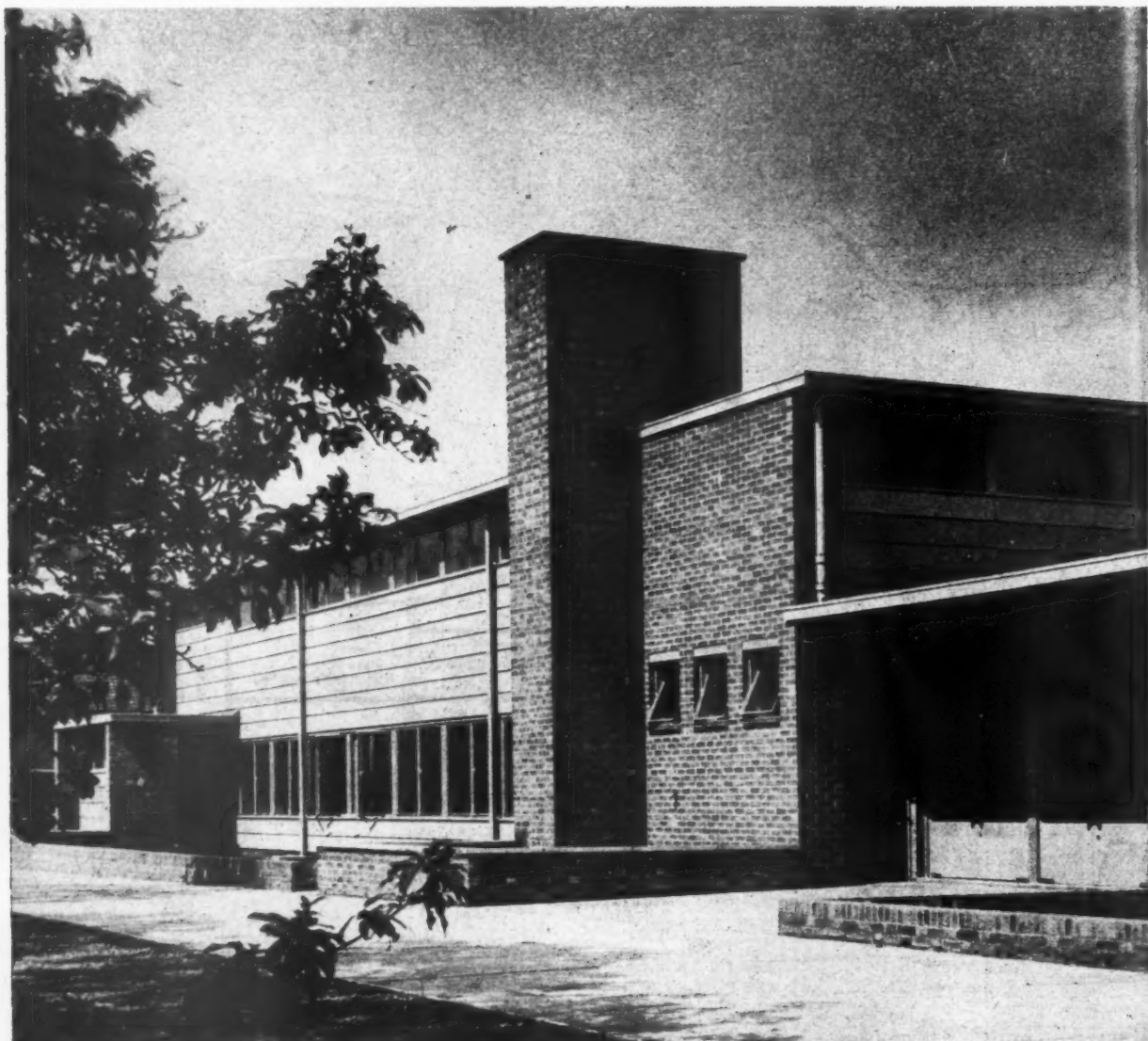
PLAN.—One of the most important factors in the planning was the provision of classroom units with acoustically separated outdoor teaching spaces and classrooms, and self-contained cloak-room units with individual access from the playgrounds, all to be combined in one continuous building block. The whole plan is based

on a planning module of 3 ft. 6 in. and a structural grid of 7 ft. 0 in.; this being found more economical in planning than the official 8 ft. 3 in.

CONSTRUCTION.—Light steel frame with built-up angle stanchions. Rolled steel joists and welded lattice girders to Assembly hall based on 7 ft. 0 in. grid. Roof is formed of special precast reinforced concrete slabs and gutter units and covered with a three-ply bituminous roofing felt. Walls along the line of steel stanchions are clad with precast reinforced-concrete external walling units

with a cavity and an internal lining of breeze blocks. The walls across the line of the steel frame are normal 11-in. brick-cavity type. This enabled a large part of the external walling to be carried out in precast units without involving an uneconomical proportion of "specials" which would be required for internal and external angles. Floors are of reinforced concrete and are built up in double form to accommodate under-floor heating pipes to all teaching rooms.

INTERNAL FINISH.—Floors: Teaching rooms: non-magnesite composition block. Corridors and



The assembly hall from the south, showing the stage entrance on the extreme left, and the main entrance to the school on the right.

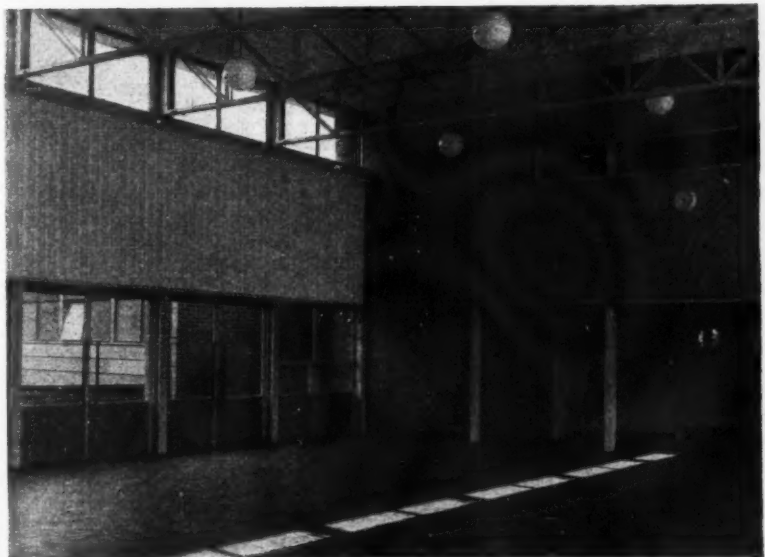
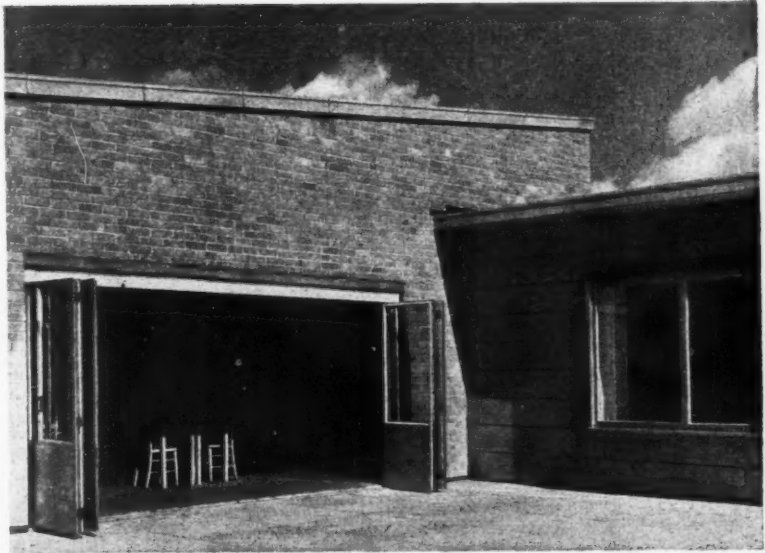
cloaks: coloured and polished granolithic. Staff rooms: medical and dining hall: coloured asphalt. Kitchen: red hydraulically-pressed floor tiles. Walls: Classrooms, corridors and cloakrooms generally: cement rendering with wood float finish and painted. Staff rooms: plaster, distempered. Kitchen: plaster, painted. Assembly hall: partly lined with asbestos cement sheets, fibre board and plaster. Ceilings: All are of $\frac{1}{2}$ -in.

fibre board fixed on wood battens to the underside of the roof units. Distempered or left with natural finish. Colour Scheme: A general background of light ivory, white or grey, with individual bright colours to each classroom unit on incidental fittings, doors, etc. These colours are used for identification as well as decorative effect. Built-in Furniture: Generous stores and shelving are provided in connection with each classroom,

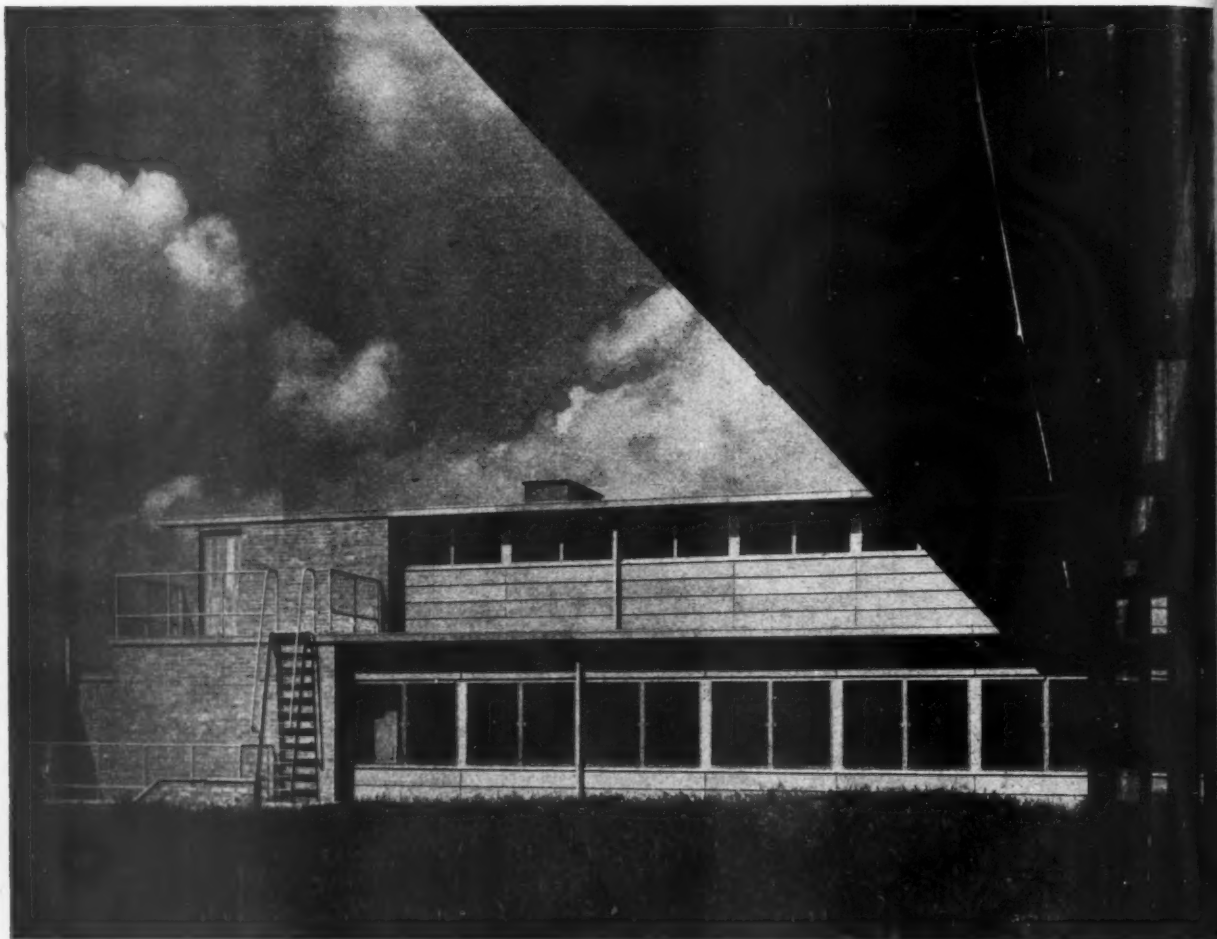
a special fitment being provided at the back of each classroom with childrens' lockers, linoleum top, teacher's cupboard and sink, and pin-up panel on wall above. In the assembly hall provision is made with sliding shutters within the hollow wall for quick "blackening out" of the hall.

SERVICES.—Heating: Low-pressure, automatic stoked, solid fuel, hot water heating system by means

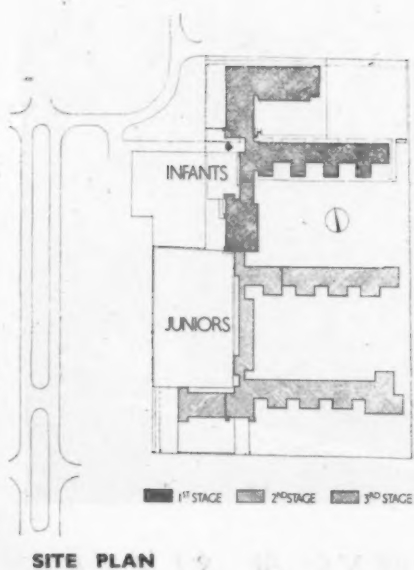
Right, the classrooms have sliding and folding doors which open onto paved three-sided courts for outdoor teaching purposes. Centre, a classroom showing, on the right, the wall designed for pinning up maps and drawings. Bottom, the assembly hall.



of under floor coils in cavity floors to every teaching room and normal pipe and radiator system to the rest of the building. Heating chamber and fuel store is in basement. Ventilation is generally by natural means. Fans are provided in the kitchen and provision is made for extract fans to assembly hall if required in the future. *Hot water:* Independent solid fuel boiler provides piped supply to all wash basins with a special booster tank in the canteen. The general contractors were G. A. Kenney & Sons, Ltd. For list of sub-contractors see page 56.



2. WHITTON WHITE HOUSE JUNIOR & INFANTS' SCHOOLS
BY JOHNS & SLATER, CHIEF ASSISTANT: BIRKIN HAWARD



Above, the assembly hall from the general purpose classrooms. Below, the main classroom wing from the south-east.

GENERAL.—A group of schools to provide accommodation for two-stream Juniors (360) and two-stream Infants (240). The site is of an area of 4.5 acres with a considerable fall from north to south. The planning requirements, constructional details, internal finishes and the services



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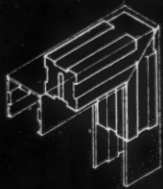
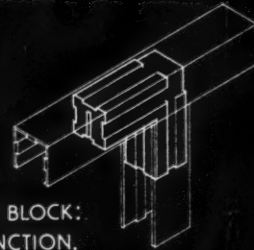
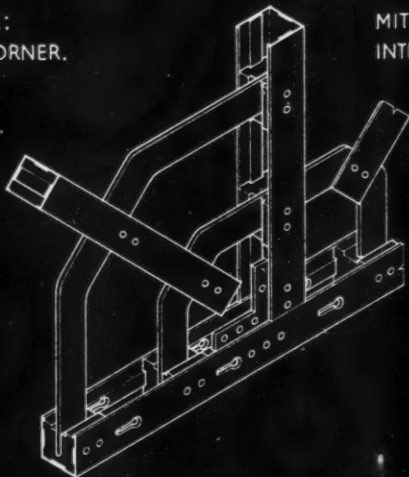
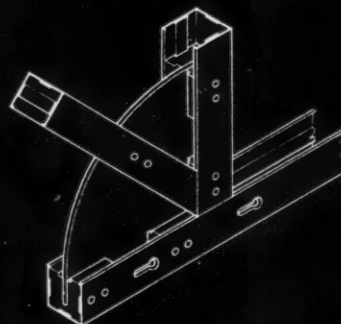


COMPLETE STRUCTURES | PREFABRICATED LIGHT ALLOY

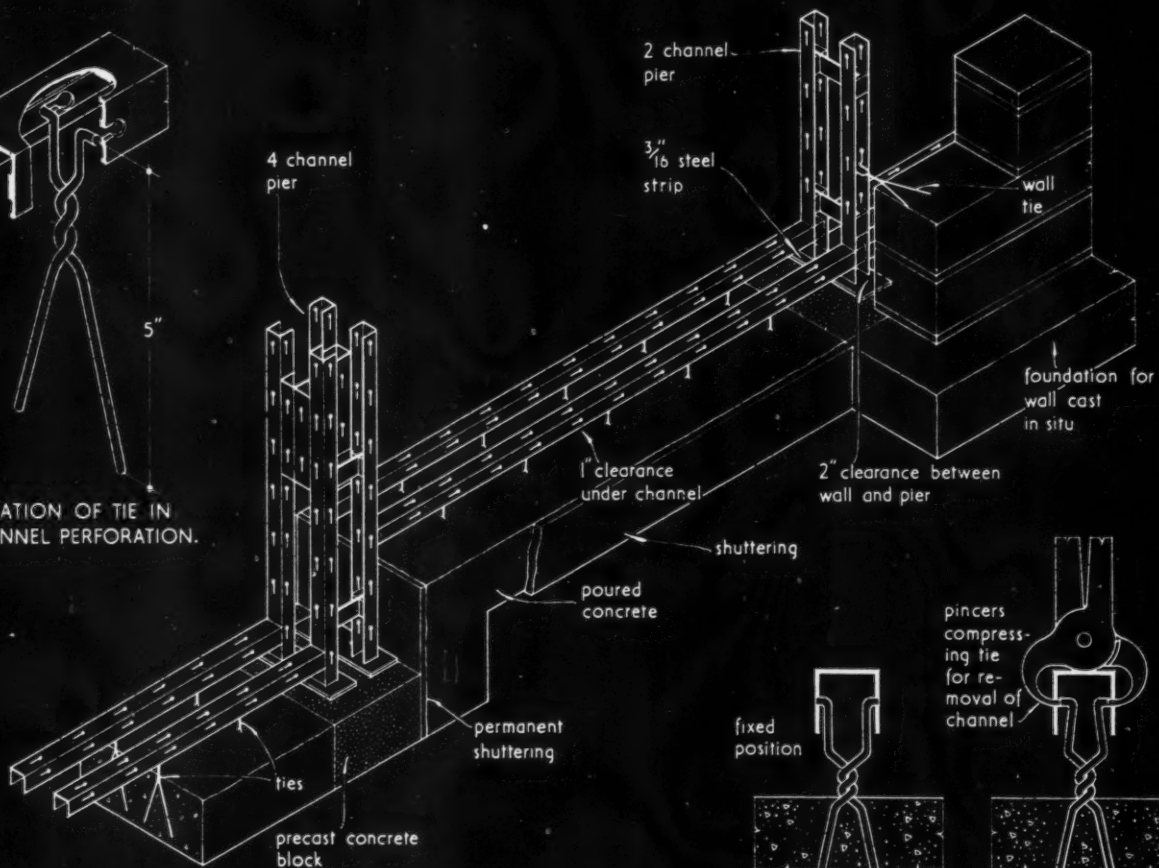
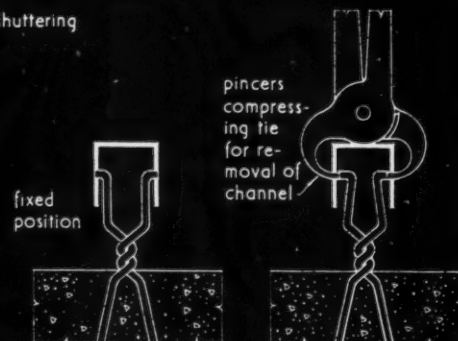
The Architects' Journal Library of Information Sheets 187. Editor: Cotterell Butler, A.R.I.B.A.

25.A3

25.A3

MITRE BLOCK:
EXTERNAL CORNER.MITRE BLOCK:
INTERNAL CORNER.MITRE BLOCK:
T-JUNCTION.JUNCTION WITH OPEN GUSSET PLATES ALLOWING
USE OF KEYHOLES.

JUNCTION WITH SOLID GUSSET PLATE.

LOCATION OF TIE IN
CHANNEL PERFORATION.CONNECTIONS TO FOUNDATIONS AND WALL AND
TREATMENT AT STEP FOR UNEVEN SITE.DISCONNECTION OF TIES FROM
CHANNEL MEMBERS.

KEYLOCK SYSTEM OF CONSTRUCTION: SUPPLEMENTARY DETAILS.

Manufacturer: Packaged Buildings.

25.A3 • KEYLOCK • SYSTEM OF CONSTRUCTION : SUPPLEMENTARY DETAILS

This Sheet is the third of a group describing the Keylock system of connecting standard structural elements to form a flexible range of building components. It gives examples of the use of right-angle mitre blocks for forming corners to frames, T-intersections and as a connection for a gusset plate. It also describes an alternative type of gusset plate and the standard wire tie for securing channel members to foundations and fixing channel members to walls or partitions. Sheets 25.A1 and A2 describe the general basis of the system and illustrate typical structural assemblies.

Use of Mitre Blocks

Frames : The drawings show the use of mitre blocks to form mitred corners such as are required for door frames, window openings, doors and partition elements. The mitre blocks may be fitted so that the closed face of the channel is either towards the inside or outside of the frame. The blocks are pressure die-cast aluminium of the same cross section as the standard inner extrusion block and are secured to the standard channel section by riveting. Corners are thus formed without the use of keyholes, cross keys or taper pins. Unperforated sections may therefore be used for door and window frames and railings.

Connections to gusset plates : The mitre block is also used to form a connection to a gusset plate for the construction of trusses or for introducing diagonal struts in any framed structure. An alternative type of gusset plate built up of $\frac{3}{4}$ -in. by $\frac{1}{4}$ -in. bent bar is also illustrated. This plate passes through a standard perforation in the vertical member and terminates at an inner extrusion block in the horizontal channel. This enables the free use of perforations as a means of connecting other members in the lower channel and also allows a second gusset plate to be inserted in the adjacent perforations at 6 in. or 9 in. from the horizontal channel if required.

Foundation and wall ties : A mild steel twisted tie is provided for connecting Keylock channels to vertical and horizontal concrete and brickwork surfaces. The tie is inserted crossways in the channel from the open side and rotated in such a way that the ends engage firmly in the keyhole perforations.

The construction of foundations is carried out by first setting up post members on $\frac{1}{4}$ -in. mild steel strips on levelled-up pre-cast concrete blocks, temporarily staying them in position, connecting horizontal channels between them and from these latter suspending wire ties at suitable intervals. The space between the pre-cast blocks is then filled in with *in situ* concrete up to within one inch of the underside of the channel. The concrete surrounds the ties and secures the structure firmly in position. This method requires only that the pre-cast blocks should be level, for this enables the precision accuracy of the framework to be reconciled with the normal accuracy of site work.

Stepped foundations : The 3-in. module enables stepped foundations to be formed economically, saving excavation work on uneven sites. Any step is practicable providing it is a multiple of 3 in. The illustration on the face of this Sheet shows a typical arrangement of stepped foundations.

Demountability

A characteristic of the tie is that it permits disconnection of the structure from the foundation with the same facility as exists in erection. This permits recovery of the whole of the superstructure without loss or damage to any component other than the tie itself.

Compiled from information supplied by :

Packaged Buildings (Robert Building Inventions Limited)

Head Office : Indio House, Bovey Tracey, South Devon

Telephone : Bovey Tracey 2261

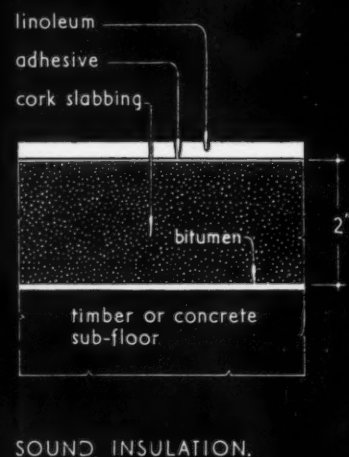
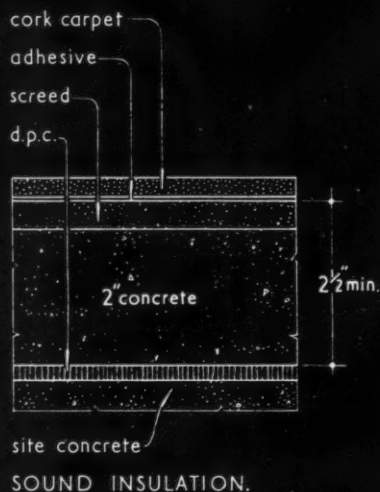
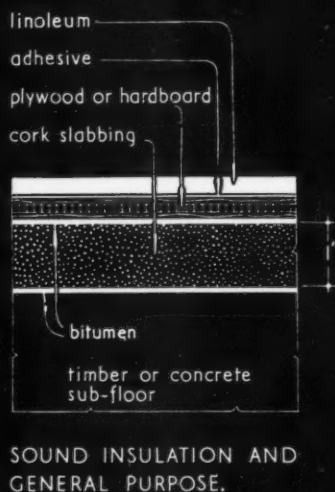
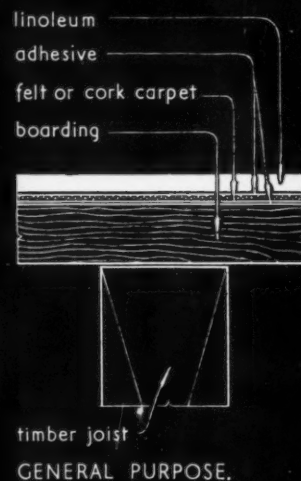
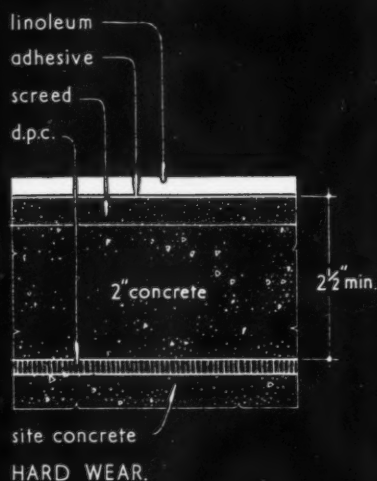
Registered Office : 63-65, Piccadilly, W.1

Telephone : Regent 6580

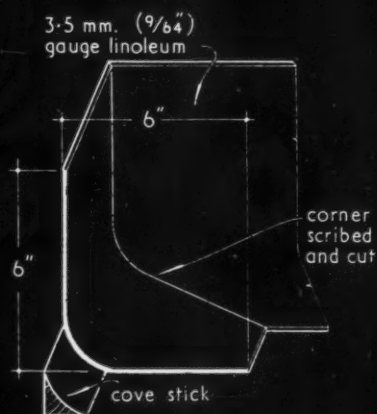
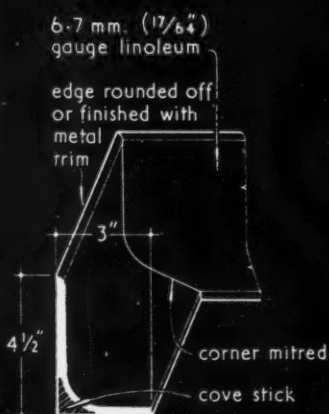
FLOOR FINISHES | LINOLEUM

19.G2

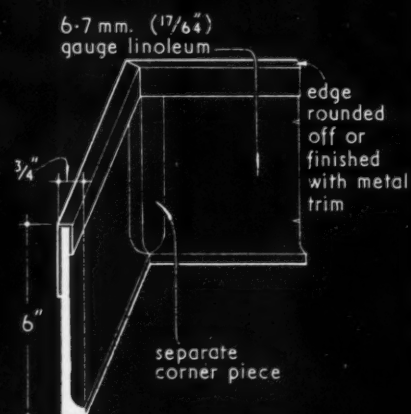
The Architects' Journal Library of Information Sheets 188. Editor: Cotterell Butler, A.R.I.B.A.



TYPICAL DETAILS FOR COVERING VARIOUS TYPES OF FLOOR.

formed on site from standard sheet
SKIRTINGS.

prefabricated (type 1)



prefabricated (type 2)

19.G2 LINOLEUM : LAYING AND FIXING

This Sheet, the second of a group on linoleum, describes the laying and fixing to sub-floors under various conditions. Information on the gauges and types of linoleum available and their uses is given on Sheet 19.G1; floor specifications on Sheet 19.G3. 19.G4 deals with specialised applications, such as to furniture and fittings.

Expansion

All new linoleum tends to stretch when unrolled and walked on. Printed, inlaid, jaspes, plains and marbles up to 3.50 mm. may be laid loose, the seams overlapped, and the seams cut in when maximum stretch has taken place.

Heavier gauge linoleum from 3.50 mm. should be completely cemented with adhesive to the surface to be covered. Stretch will then be eliminated. Linoleum should be kept in a warm room (65° F.) for at least 24 hours before it is unrolled.

Preparation of Surfaces

It is important that all types of sub-floor should be thoroughly dry before laying. Evaporation of moisture from the sub-floor cannot take place once linoleum is laid.

Permanent precautions against rising damp must be taken in ground floors, and in the case of all timber construction adequate cross ventilation provided. All surfaces to be covered should be thoroughly swept to remove surface dirt. All cracks and holes should be filled and high spots removed on cement floors. On wood floors loose boards should be nailed down, uneven spots levelled and any protruding nail heads flattened or extracted.

Fixing

Linoleum can be cemented direct to the surfaces of concrete, stone, asphalt and metal, provided that the surfaces are dry and free from chemicals, oil or grease. Complete adhesion to the sub-floor will prevent linoleum stretching and gives a longer wearing floor.

Felt: On all sub-floors of wood construction, dry felt paper should first be laid and cemented. The linoleum is then cemented to the felt underlay. This treatment counteracts seasonal movement in boards.

Linoleum: The first sheet of linoleum is cut to the required length allowing a small surplus for exact fitting at room ends. A chalk line along the floor close to the outer edge of the linoleum, and a short chalk line at right angles to the length line across the linoleum and on to the floor, will serve as positional check marks.

Precise measure of the various contours of the walls should be transferred on to the sheet before cutting. To apply the adhesive, fold the length of linoleum back, exposing that half of the sub-floor to be spread. From the centre line of the floor spread adhesive in a thin even coat, leaving about a 2-in. margin from side seams unspread. This margin will be cemented when seams are cut. It is advisable to weight down the linoleum at the edges until the adhesive has set to ensure that it is securely fixed.

Care must be taken to see that check marks correspond before the linoleum is eased on to the adhesive. Repeat this operation on the other half of sheet and roll thoroughly with 150 lb. linoleum roller. Further sheets are laid similarly, allowing a ½-in. overlap at the seams for cutting in. Complete laying until floor is covered. The overlapping edges of sheets are then cut in; this is done by using the edge of the overlapping sheet as a guide and cutting through the undersheet. While cutting, keep knife blade at right angles to the floor at all times. Lift the edges of sheet carefully and spread water-resisting adhesive along the margin not covered with adhesive. Press edges of seam down and roll thoroughly.

Adhesives

There are numerous cements, pastes, etc., available and it is important that the correct kind be specified for each type of floor or sub-floor. A full summary of adhesive types is given in Sheet 19.G3.

Skirting

Three types of skirting are illustrated on the face of this Sheet.

The first is formed from standard sheet material (in 8-ft. lengths for ease of handling) and is applicable to gauges up to and including 3.50 mm. (⅜ in. plus). The cove stick supports the bend in the skirting, which extends up the wall and along the floor 6 in. minimum in each direction. The corners are scribed and neatly cut and the whole secured to wall and floor with suitable adhesive. The wall edge is rounded off or finished with metal trim.

The other two drawings show two types of pre-fabricated skirting.

Type 1, for 6.70 mm. gauge (¼ in. plus) linoleum is manufactured from that gauge in standard lengths of 6 ft. It has a wood cove stick to support the bend and extends 4½ in. up the wall and 3 in. along the floor. The corners may be cut with a fine tooth saw and angle box, and the whole is secured and the wall edge finished as above.

Type 2 is also in 6.70 mm. gauge material but is without a cove stick. It extends 6 in. up the wall and ½ in. along the floor. Separate inside and outside corner pieces are supplied for this type of cove and it is secured and the wall edge finished in a similar way to the above. The assembly is not fabricated with metal trim attached and where metal trim is used for either of these three types of skirting it is secured to the wall by countersunk screws and wall plugs.

Further Information

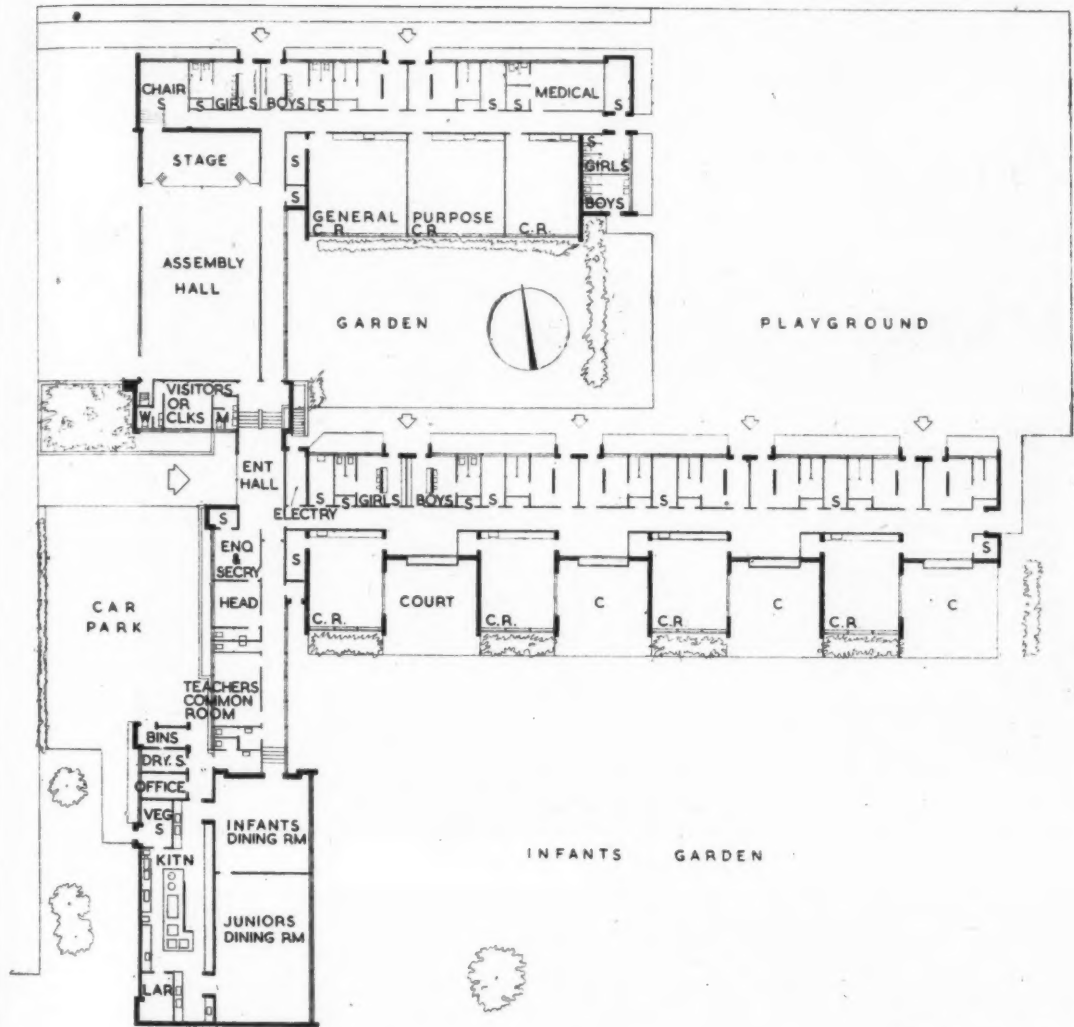
Pamphlet on Prevention of Dry Rot in Floors, etc.: This pamphlet, published by the Linoleum Manufacturers' Association, is available on request.

Compiled from information supplied by:

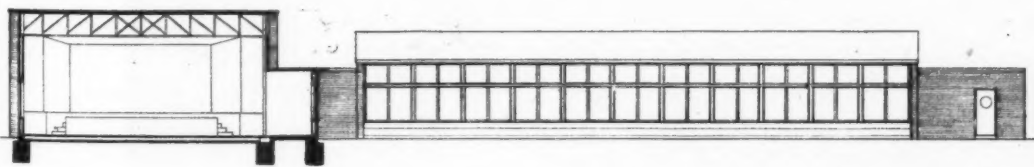
The Linoleum Manufacturers' Association.

Address: Roxburgh House, 273-287 Regent Street, London, W.1.

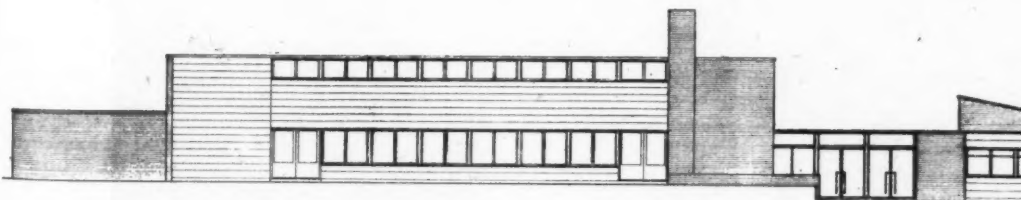
Telephone: Regent 6140 & 6149



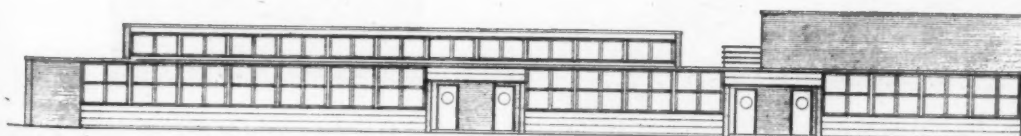
PLAN [Scale : $\frac{1}{4}'' = 1'0''$]



SOUTH ELEVATION



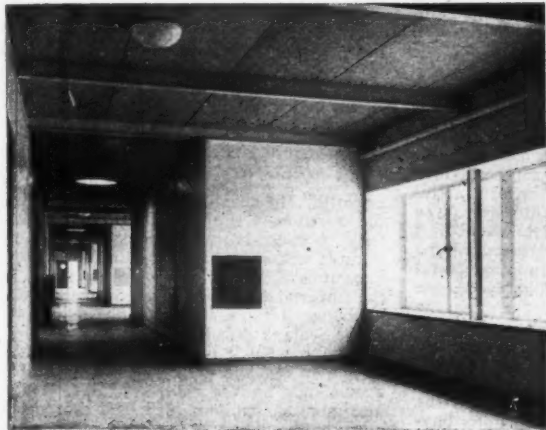
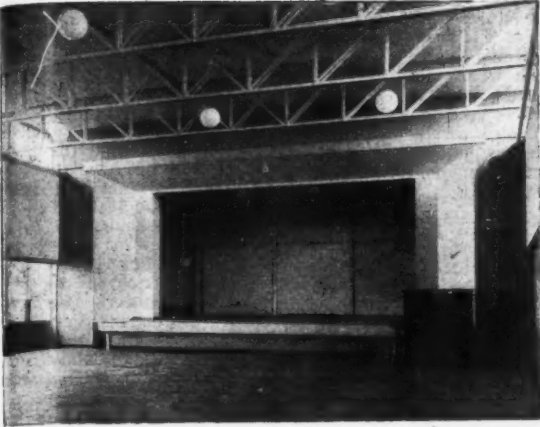
WEST ELEVATION



NORTH ELEVATION [Scale : $\frac{1}{4}'' = 1'0''$]



WHITTON WHITE HOUSE JUNIOR & INFANTS SCHOOLS

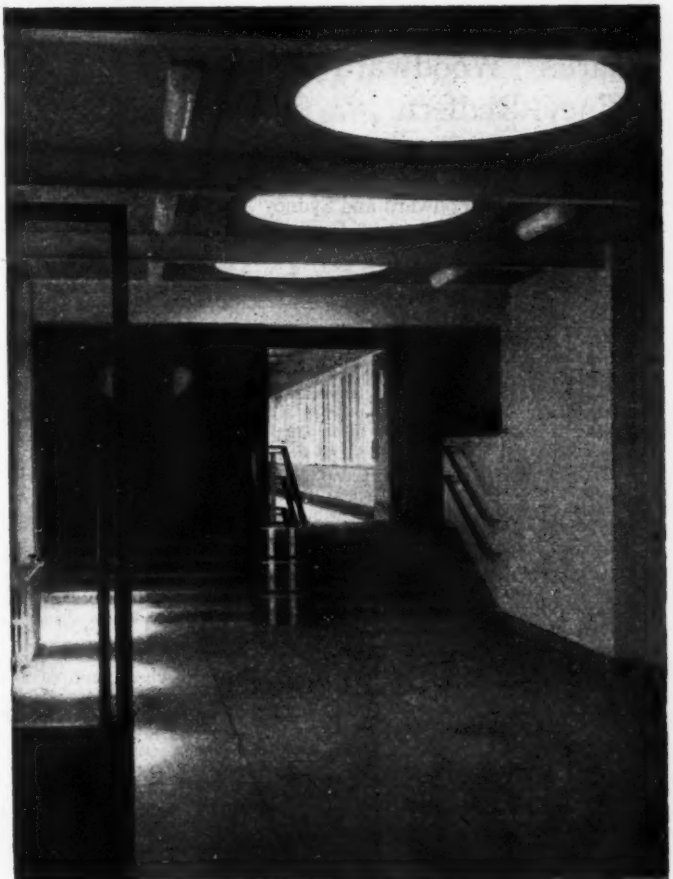


Top, the assembly hall. Above, the main corridor between classrooms and cloakrooms. Above, right, a detail of the escape stair from the projector room in the assembly hall. Below right, the entrance with the assembly hall doors beyond.

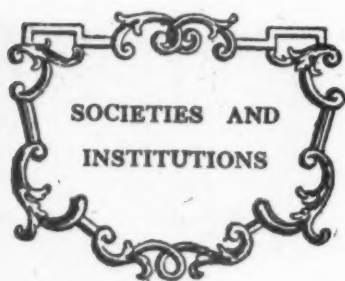
(Continued from page 46)

are largely the same as in the Rushmere Hall schools. The general contractors were Cubitt & Gotts, Ltd. For list of sub-contractors see page 56.

Opposite page, top, the assembly hall from the south, with the main entrance on the right. Bottom, the classroom block.



BY JOHNS & SLATER



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.

RIBA

Charles Woodward & Sydney Redfern

June 21. Answers to questions relating to Architectural Practice given by Messrs. Charles Woodward and Sydney Redfern at the RIBA, 66, Portland Place, W.1. The Chairman was Mr. Michael Waterhouse.

ARCHITECTURAL CRITICISM

Mr. Woodward: The question we have been asked is in two parts, the first of which is this: Is a critic free to express his opinion of an architectural design without being involved in an action for defamation?

Mr. Redfern: It is not possible for anybody to do anything without being involved in the possibility of litigation, but, as I understand the question, it means: Can a critic of a design be successfully sued for defamation? If he has merely uttered an opinion, he cannot. An opinion is not a statement of fact. If the opinion that he expresses is his correct and honest opinion, however misguided it may be or may be thought to be he is exempt from any real risk of litigation.

Mr. Woodward: The second part of the question is: Is a critic free to express his opinion on a method of construction without being involved in an action for defamation?

Mr. Redfern: Again it depends upon the circumstances in which the opinion is given. If it is given to a client, of course it is privileged. If it is used maliciously, to interfere with somebody's production, it would not be privileged and might land the critic in trouble. But if an architect is asked to express his opinion to a client on a certain proposed form of construction it is his duty to give an honest and competent opinion, and he is exempt from any risk.

Mr. Woodward: I take it that his criticism must be based on facts which are really facts.

Mr. Redfern: I would not go quite as far as that. I think that if an architect is asked by a client whether he would advise a certain form of construction and the architect thinks that it is an inappropriate or inefficient form of construction, it is his duty to tell his client so, and if he is performing a duty his communication is privileged.

TERMS FOR PURCHASE OF PRACTICE

Mr. Woodward: The question is: What are the customary terms for buying an architectural practice? I think this can be divided into two portions; first, buying an architectural practice, and, secondly, buying a partnership in an architectural practice. I think those are two different aspects of the same thing. If I were buying an architectural practice, my terms would probably be one and a half to two years' purchase on the average of the preceding three years' net profits, but I should want a probationary period of at least six months, in order to see whether the clients of the late architect liked or did not like my tie, because if the clients do not like the architect who is buying the practice it is, of course, no use his buying it, because the clients would not employ him. When you are buying a partnership I think the position is rather different, because you will be associating with a person who has already got an established practice, and you can by that means become acquainted with his clients, and when he retires you would naturally fall into the practice.

Mr. Redfern: It is a very difficult question to answer in general, because the answer must depend very largely upon the nature of the practice. Some practices must be very much more personal than others. A small practice or even a large practice dealing with comparatively large numbers of smallish jobs, estate jobs, and so forth, must be more marketable than the practice of, say, Sir Giles Scott, which is unpurchasable, so that it is really impossible to give a general answer.

CONSENT TO PHOTOGRAPH

Mr. Woodward: The question is this: Is an architect's consent necessary to photographs of his building being taken and published? That is a question of copyright which Mr. Redfern will probably deal with.

Mr. Redfern: It is not an infringement of copyright to take a photograph of a building. It is an infringement of copyright to take a photograph of the drawings from which the building has been erected.

Mr. Woodward: If photographs are taken would the architect have any right to direct what portion of the building should be taken or published?

Mr. Redfern: None whatever. He has put a building up and it is there for everybody to see and therefore for everybody to photograph.

SCALE OF CHARGES

Mr. Woodward: The question concerns the Scale of Charges, and it is particularly directed to the fees chargeable for sketch plans in accordance with the Scale. Perhaps I had better read the particular section of the Scale, in order that you may understand the question. It says: "For taking client's instructions, preparing sketch designs sufficient to indicate the architect's interpretation of the client's instructions (but not in detail adequate to enable quantities to be prepared) and making an approximate estimate of cost, the charge is on quantum meruit and should not exceed one-sixth of the percentage stated in Clause 2(a) or 2(b), as the case may be, on the estimated cost of such works."

The question is: What is the meaning of "quantum meruit" and on what basis would sketch drawings be valued under this clause, and secondly, is it possible that the wording of the clause would result in different valuations being given by, say, six architects?

Mr. Redfern: "Quantum meruit" means what the job is worth. In regard to the second part of the question, I should say that it is inevitable, because no two men think the same thing is worth the same amount, unless perhaps it is a bar of gold or some shares in the Imperial Chemicals quoted on the Stock Exchange. I think this is a horrible clause in the Scale, a dreadful clause, because they start with what it is worth and then put a maximum on, and there has been probably a tendency in the Courts to regard that maximum as a minimum. It is a thoroughly unworkable clause if people get at cross purposes.

Mr. Woodward: It really means, then, that there is no method or basis of calculation; it is merely a matter of opinion?

Mr. Redfern: I think everybody has his own basis. Somebody might say: "This is a very pretty picture and I think it is worth a lot of money"; someone else might say: "No, it only took him a couple of hours, and therefore I will allow him 15 guineas," and so forth. There is no basis laid down in the scale. It says "what it is worth," and that leaves the matter entirely at large, either in the hands of the judge or in the hands of the six architects who have been asked to say what they all think.

FORM OF CONTRACT

Mr. Woodward: The question concerns the Form of Contract. The members may recollect that it is stated in the Articles of Agreement: "The term 'the architect' in the said conditions shall mean the said Mr." If Mr. is named in the contract as the architect and he is not on the Register of the Architects Registration Council, is he guilty of misrepresentation?

Mr. Redfern: The question is not quite clear. Misrepresentation to whom? If the client knows that Mr. is not on the Register he is not being deceived, but Mr. Pembroke Wicks would undoubtedly have a good deal to say about that, because he would say that the man was calling himself an architect, and, although he does not specifically call himself an architect, I think he would be liable

to prosecution under the Registration Act, and, I think, rightly.

I remember that many years ago the Council of this Institute took the advice of learned counsel, now one of His Majesty's judges, and he gave the opinion that a man who was a member of this Institute and entitled to call himself ARIBA or FRIBA, might be liable to prosecution if he was not on the Register, because he was suggesting that he was an architect. I do not agree that a man who is an FRIBA but is not on the Register commits any offence if he calls himself an FRIBA, but undoubtedly, in my opinion, anybody who allows his name to be put in the contract as the architect when he is not on the Register is liable to prosecution.

COPYRIGHT OF DRAWINGS

Mr. Woodward : The question is this: A building put up twenty years ago was designed by an architect and he was paid his full fee. Before the war the owner sold the house and unfortunately during the war it was completely destroyed, but it did rank for a cost of works payment for the rebuilding. Now the second owner, having discovered the drawings, wishes to use them to rebuild the premises he bought, but the first architect says: "No. My copyright is in those drawings and if you attempt to use them I shall go to the Court and ask the Court to restrain you." I should have thought that the second owner would have the right to use those drawings for the purpose of reinstating the premises, always assuming that when he bought the premises he also took the drawings with the conveyance, because, of course, the drawings themselves, regarded as chattels, belong to the client, and I think I am right in saying that he would have the power to assign those drawings to anyone who bought his property. Therefore I should have thought that, provided you are reinstating the premises exactly as they were before they were damaged, you are entitled to use those drawings for that particular purpose without infringing the copyright of the original architect.

Mr. Redfern : Yes. I think the matter really depends on the implication of a licence. When an architect has been paid for preparing drawings, he impliedly grants to his client a licence to reproduce those drawings in the form of a building on the particular selected site once, and I think that it must follow from that, that restoration, in the case of destruction by fire or other means, is included in that licence. There has been no decision on the point, but about a year ago I had a case of an architect who actually issued a writ claiming an injunction, so some architects and members of the legal profession evidently think that an architect can prevent anybody rebuilding a destroyed building according to his plans. I think if that matter ever come before a Court the judge would say it was not fit subject matter for an injunction and that he would assess, if anything, nominal damages. But it has never come before the Courts.

PHOTOSTAT COPIES OF PLANS

Mr. Woodward : The question concerns a corporation which is having photostat copies made, without the permission of either the client or the architect, of plans which were deposited by the architect for the purpose of by-law and town planning approval. Apparently the client was in negotiation with the corporation to buy the land, but that has lapsed, and the corporation is apparently going to develop the site itself. The question is: Has the corporation any right to take photostat copies of plans which were de-

posited by a private owner in order to obtain by-law and town planning approval? Of course, one would have thought that the corporation had no right whatever, but if the corporation did copy these plans without the consent of the person who deposited the plans it would be liable for infringement of copyright. The question is put in two ways. What is the legality of this proceeding from the client's point of view and from the point of view of infringement of copyright? I suppose that, from the client's point of view, the drawings belong to him and he could give permission probably for the use of the drawings, but that would not prevent the architect, I think, from proceeding for infringement of the copyright, which, of course, belongs to the architect. That is, as far as I can see, the answer to that question.

Mr. Redfern : It seems that this corporation is not proceeding in accordance with the highest tradition of corporations, or those with which I have come into contact. I think there is no doubt that to take copies in the way in question is an infringement of the architect's copyright, and I believe that the corporation could be restrained from doing it, and possibly mulcted in damages.

SIGNING OF DOCUMENTS

Mr. Woodward : The question concerns the contract again. In the Articles of Agreement it is stated: "And whereas the said drawings numbered . . . to . . . inclusive and the said bills of quantities have been signed by or on behalf of the parties hereto." The question is: Where the clients sign only the printed document and do not sign either the drawings or the bills of quantities, is that in order? Is it a proper method of entering into the contract? You will have noticed that I read out the words: "have been signed by or on behalf of the parties hereto"; that is, the bills of quantities and the drawings, so I assume from that that the architect would be quite entitled to sign the drawings and the bills of quantities on behalf of his client. The client, of course, must sign the printed document. I should not have thought that there was any objection to the architect signing the bills of quantities and the drawings on behalf of his client.

Mr. Redfern : Of course, it is a question of whether he is authorized to do so. If I were an architect, before I signed anything on behalf of anybody else I should make quite sure that I was authorized to do so. I cannot see why, when a client is being asked to sign the contract, he cannot also be asked to sign the drawings, which he has presumably approved. If he has not approved of them, I do not see how the architect can assume that he is authorized to sign on behalf of the client, but I think the mere non-signature of the plans, assuming it to be shown that they had been seen and approved by the client, would not have any effect on the legality of the contract.

CHARGING OF FEES

Mr. Woodward : The question is: What are the correct fees to charge for eight sketch drawings for a project which consists of a house and a shop, etc., to cost under £4,000? Where the cost is under £4,000, the fees can be anything from 6 per cent. to 10 per cent. under the new scale, so that one cannot say what the exact percentage should be. The questioner also wants to know how he should charge for making applications to

the local authorities under town planning by-laws, and so on, and applications for licences. I think the short answer is that his drawings, provided they are what we know as working drawings, plus a specification, would entitle him to two-thirds of the proper percentage charge. For all services outside the making of the working drawings and specification he would charge under the scale, having regard to the amount of work done.

RETENTION OF CONTRACT

Mr. Archard : It is the custom for the architect to retain the contract. Is the client entitled to demand the actual contract until the work is completed?

Mr. Woodward : I think that during the progress of the work the architect should be in possession of the contract, because he has to administer it, but, when the job is complete and the builder has been paid and, let us hope, the architect has been paid, the client is entitled, I think, to ask for the contract documents and the drawings. The architect should, of course, let the client have a copy of the contract during the progress of the work, or, alternatively, the client could come into the architect's office at any time and ask to see it; he would have that right.

Mr. Redfern : Or, alternatively, the architect could work from a copy. I believe that the document belongs to the client. While it may be silly for him to want it, there are such things as eccentric clients.

Mr. Archard : I take it that he can demand the actual contract while the work is in progress?

Mr. Redfern : In my opinion, yes, because the architect does not need it; he can work from his file copy. If an arbitration takes place, the document is available for the arbitrator; it does not matter in whose hands it is. But, in my view, the architect is a mere agent for storing the document.

COMPETENCE OF AN APPOINTED ARCHITECT

Mr. Secrett : If a public institution has a building on which work is in progress under the direction of an architect, and the institution has a building committee of laymen with one architect member, and the lay members of the committee ask the architect member to express an opinion on the competence of the architect who has the work in hand, what ought the reply of the architect member to be? How far is he privileged if he comes to the conclusion that the other architect is not altogether competent?

Mr. Redfern : It is the duty of the architect member of the committee to express an opinion. He has a duty to prevent his fellow members of the committee from continuing to employ an incompetent architect, and if his honest opinion, based on facts, is that the architect is not competent, he has a duty to convey that opinion to his fellow members and they have an interest in receiving the information. His action is covered by what is known to lawyers as "qualified privilege," which means that, in the absence of definite evidence of malice, the communication is privileged.

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4.51 planning: urban and rural

HARTLEPOOLS: SURVEY, PLAN

The Hartlepoons: A Survey and Plan. M. Lock and Others. (West Hartlepool Corporation; distributed by Dennis Dobson, Ltd. 1949. 30s.)

Comprehensive report on survey and planning proposals. Fully illustrated by maps, tables, diagrams and photographs. Well indexed.

The area covered by the survey and plan for the Hartlepoons extends for about 29 square miles in the south-east corner of County Durham. It is situated between two important areas of redevelopment, in the south the Yorkshire bank of the River Tees where big industrial expansion is in progress, and in the north the site designated for the new town of Peterlee.

In an introductory chapter the main problems of the Hartlepoons area are analysed. It is stated that over-rapid growth, due to industrial development, too much cheap building for quick returns and the failure to replace obsolete premises have created urban blight which can only be remedied by wholesale reconstruction of large areas of bad development, together with the planning of large new neighbourhoods on the outskirts to accommodate the dispersed population.

Basic planning requirements for the Hartlepoons consist of the need to amalgamate the two Town Councils and to provide for wide boundary extensions. In order to rehouse people now living in sub-standard conditions, almost a square mile of land should be bought outside the present County Borough boundary. To stabilize and achieve a proper balance of industry and employment, an additional area of about one square mile should be allocated to factory development in the planning area, and the docks should be re-

constructed. The blighted central areas need redevelopment, and social, cultural and recreational services must be provided according to present standards.

The survey takes account of all these basic planning requirements. It begins with a geographical and historical outline and a detailed analysis of the area's industrial structure, trends and population characteristics, followed by industrial proposals. Next comes a survey of transport, communications and piped services resulting in a number of suggestions for improvement schemes. As the town suffers from inaccessibility, the proposals aim at lessening the time and distance of the Hartlepoons from the main lines of communication.

Social and neighbourhood structure are examined in detail, and the standards to be attained through redevelopment concern neighbourhood sizes and density, siting and layout, housing, shopping facilities, communications, social services, including health and education, the mixture of social groups, the provision and landscaping of open spaces and gardens, and the introduction of district heating schemes for central neighbourhoods.

Special chapters are devoted to the planning of Seaton Carew as a seaside resort where the resulting service industries, hotels, catering, amusement, etc., would contribute

to a diversification of industry for the Hartlepoons; to the planning of the rural area surrounding the towns; to the reconstruction of the town centre; and finally to the implementation of the plan.

It should be of interest in regard to survey technique that housing conditions have been analysed by a card-indexing system, which is described. A detailed survey of floor-space occupancy in the central area to investigate the mixture of land use, led to the conclusion that shops can be grouped in an area of one-fifth of the size now occupied. In this connection it was also found that the use of the floor-space index as recommended by MOTCP proved to be impracticable if applied to the Hartlepoons.

The book concludes with two appendices consisting of a summary of the chief results of a household sample enquiry by Ruth Glass, and a report on port and dock improvements by the Hartlepoons Incorporated Chamber of Commerce.

7.23 practice

FACTORIES: BUILDING CONTROLS

Industrial Building: Notes for the Guidance of Industrialists who wish to carry out Building Work. (Economic Information Unit, Treasury, 1949. Free of charge.)

Concise pamphlet explaining procedure to be followed in order to obtain official consent for carrying out industrial building work. Two appendices.

The official control over industrial building is divided into three main aspects, i.e., location of premises which includes the assessment and payment of development charge, financial considerations, and the time when work is to begin. The booklet provides information under these three heads on the steps which are to be taken for obtaining the necessary permits from the appropriate Government Departments.



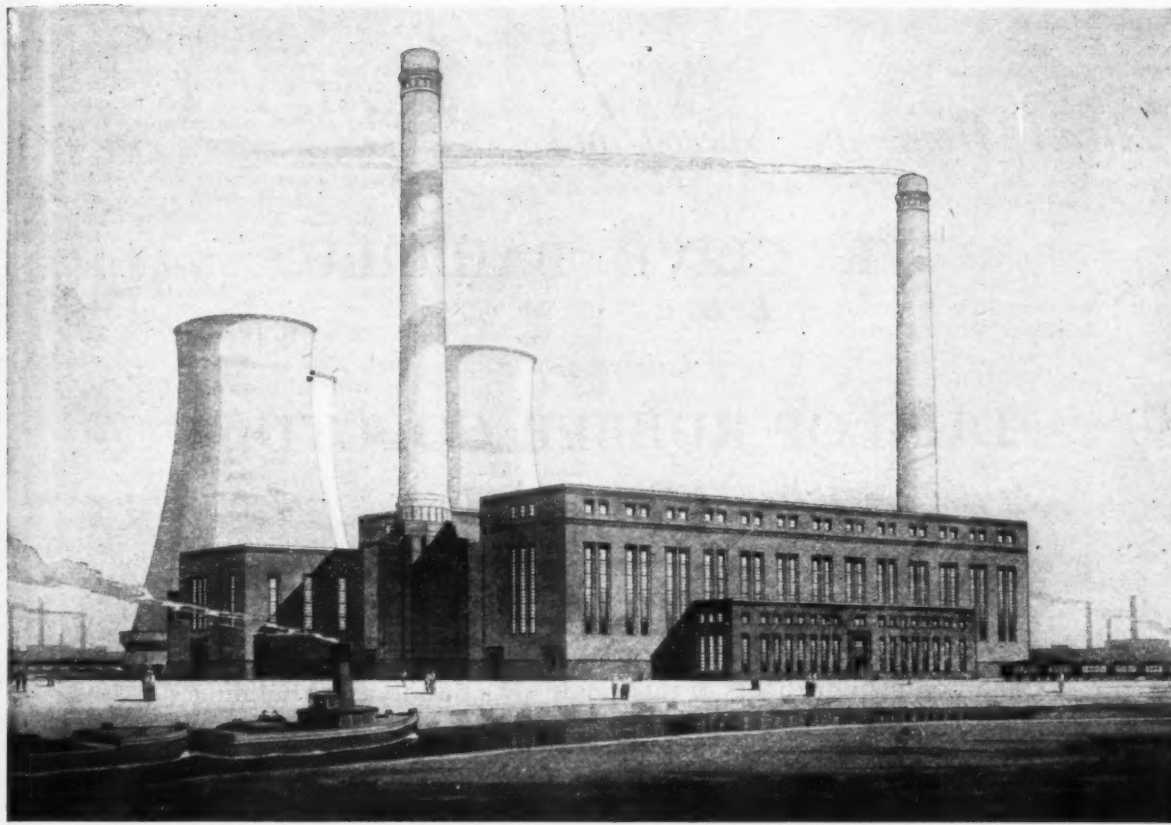
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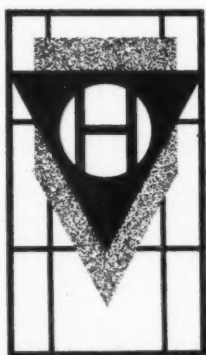
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It refers to the application for planning permission under the Town and Country Planning Act, 1947, to the determination of development charge by the Central Land Board, to projects which require financial consent from either the Treasury or the Bank of England, the latter in the case of foreign assets, and lastly to starting date, building licence and permits for building materials.

There are two most useful appendices, the first of which gives a list of building and civil engineering works (other than housing) classified under the Government Departments which sponsor them, while the second contains the titles and addresses of the Regional Controllers of the sponsoring departments.

9.9 design : general

MICROCLIMATOLOGY AND SITING

Microclimatology: Local Variations of Climate likely to affect the Design and Siting of Buildings. G. Manley. (RIBA Journal, May, 1949, pp. 317-323.)

Paper read at meeting of RIBA Architectural Science Board reviewing present state of knowledge of local variations of climate in Great Britain sufficiently important to affect disposition of buildings.

Interpretation of the term microclimatology. Sources of climatological information. Types of climatic manifestations to be avoided in siting buildings. Importance of relief, proximity of water-bodies and character of soil. Factors governing incidence of low minimum temperatures. Radiation fog and atmospheric pollution in relation to industrial planning. Advantages of well-drained south slopes for residential areas. Study of snowfall in connection with siting and planning of main roads. Effect of buildings themselves on local climate. Need for research in regard to optimum size and spacing of buildings adapted to British climate. Illustrated by tables and diagrams. Bibliography.

10.51 design : building types

R.C. FRAMED BUILDING

La Nouvelle Gare Centrale de Rio-de-Janeiro. (New central railway station at Rio-de-Janeiro.) (La Technique des

Travaux [Belgium], March-April, 1949, pp. 66-75.)

Framed multi-storey building in reinforced concrete comprising an area of 136,500 sq. yds.

An interesting feature of the new central station of Rio-de-Janeiro is a tower of 400 ft. height above street level. The large building is supported on 868 piles of 2 ft. dia. having a safe load bearing capacity of 130 tons each.

20.136 construction : complete structures

R.C. BRIDGE

Reconstruction du Pont du Veurede. R. Chavagnac and M. Lehuédé. Travaux [France], May, 1949, pp. 203-9.)

Details of reconstruction after the war.

The old steel bridge over the river Allier at Veurede was completely destroyed during the war. The new bridge is in reinforced concrete of similar type and cross section as the Waterloo bridge, i.e., a girder of cellular cross section with cantilevers. The three main spans are 203+238+203 ft. All main reinforcing bars have been welded.

20.137 construction : complete structures

RECONSTRUCTION OF WAREHOUSE

Reconstruction of Warehouse at Gladstone Dock, Liverpool. (Concrete & Constructional Engineering, May, 1949, pp. 149-154.)

Reinforced concrete warehouse in Liverpool reconstructed.

The warehouse, which is a transit shed, was largely destroyed by enemy action. The building is 1,500 ft. long, 150 ft. wide and 58 ft. 9 in. high, comprising three stories. The structure is divided into five independent sections, each 300 ft. long and each divided into twelve bays. Reconstruction started in 1946 and precast concrete and pre-fabrication were used as much as possible. The reinforcement of the main beams of 50 ft. span was assembled as a cage on the ground. The secondary beams of 25 ft. span were precast and propped until the cast *in situ* floor slabs have attained sufficient strength to act together with the precast parts as a monolithic structure. The fascia beams on top of the building were also precast in units of 7 tons.

21.29 construction : miscellaneous

CONTINUOUSLY-SLIDING MOULD

A Continuously-Sliding Mould. (Concrete and Constructional Engineering, May, 1949, pp. 159-160.)

Equipment for the erection of cylindrical concrete structures used in recent years in Sweden. Three men, working in shifts of two, claimed to complete silo 15 ft. in diameter, 30 ft. high, in 50 hours.

24.113 lighting

ARTIFICIAL LIGHTING

Science of Artificial Lighting. R. O. Ackerley (E. & F. Spon, 1949. 12s. 6d.)

Scientific background, technique of designing installations, application to individual problems. 131 pp. pl. 32, diag. 41. Useful reference book.

This book is advanced orthodoxy, good and clear. It begins by describing the relations between all the partners in lighting—the source, the eye and the object lit. Then it details the technique of designing an installation, and ends with a review of the problems of different types of buildings and work, with some references to special details such as cornice lighting, built-in lighting, and so on.

It is rather astonishing that in spite of all the interest in lighting since the war, there has hitherto been no general reference suitable for the profession. Walsh wrote a book on photometry and lighting intended partly as an instruction book for lighting engineers, but it met no particular architectural needs. Ackerley's book falls some distance short of the art of artificial lighting as we would like to see it expounded, but it at least gives us a clear picture of the engineer's technique, data and approach. It is worth having.

24.114 lighting

NATURAL LIGHTING

Building for Daylight. R. Sheppard & H. Wright, with an historical note by John Gloag. (Geo. Allen & Unwin, 1949. £1 1s. 0d.)

History of English windows, urban development for good daylighting, building types, and the use of different glasses, 91 pp. Generously illustrated. Attractive.

This is not a text-book; it is just a book about architecture and natural lighting.

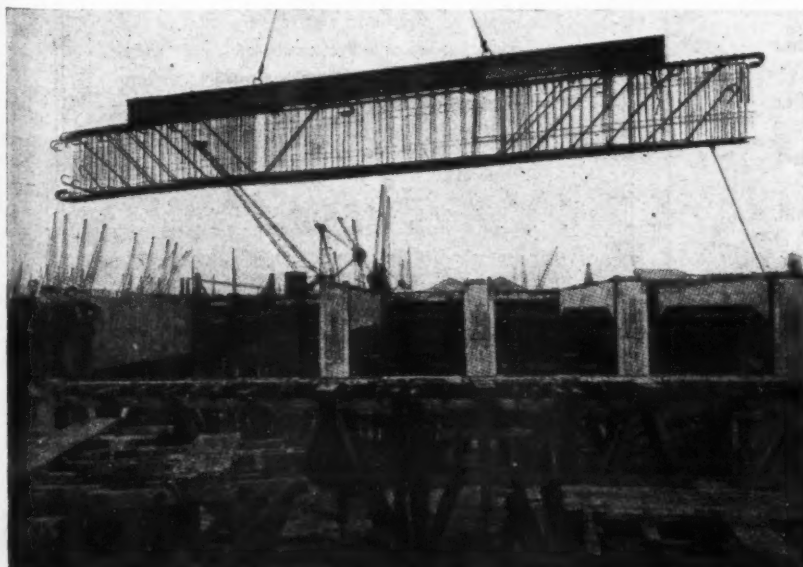
Gloag's introductory notes starts it off beautifully, and form about half the text. There is real charm and scholarship here in the understanding of the character of windows, their functions, the significance of their shapes. He carries right through from Saxon times to today.

The author's chief contribution is a review of urban development in relation to natural lighting. It covers the Georgian arrangements and the Victorian modifications which led to a deterioration of lighting, and then leads on to a group of attractive examples of how modern requirements can be adjusted and developed to provide good natural lighting. There is even a whole town layout given, and considering the brevity of the text, many good points are included. The interior studies are again interesting, but really too brief. Two pages each is not enough for factories and schools, for instance. Domestic lighting, offices and hospitals, are included.

The last part of the book—again quite large—has a commercial air. It consists of examples and specifications for the use of different types of glass. It is elaborately done and gives useful reminders of the different uses of different glasses.

The illustrations, in line, or line and wash, are excellent.

There is scarcely any reference to glare, which is a pity.



Pre-assembled reinforcement of main beams of warehouse at Gladstone Dock, Liverpool. See 20.137.

Stain Proof

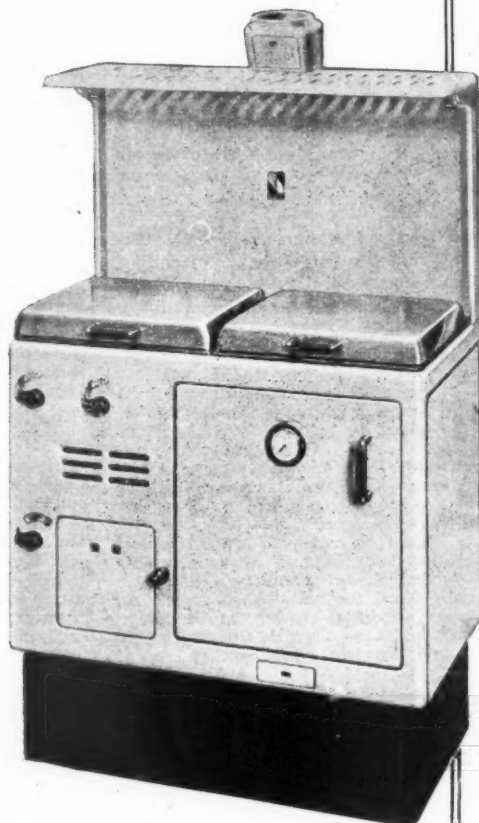


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THE INDUSTRY

By Brian Grant

ALUMINIUM IN SERVICE

So far as the architect is concerned, aluminium is a comparatively new material about which he does not know a great deal, and of which he is therefore sometimes a little shy. This is due in part to the aluminium producers themselves, whose metallurgists seem always to introduce such elaborate qualifications into the simplest statements that the designer becomes chary of using a metal which demands so many precautions to be taken against corrosion. He also remembers a certain number of examples of poor pre-war anodising, and tends to think in terms of copper or lead, both of which he knows as lasting for centuries. A recent booklet published by the Aluminium Development Association is therefore useful in that it provides a series of examples showing the behaviour of aluminium and its alloys in many different fields and over the longest possible periods. Some of these case histories record lengths of service of fifty years and more, others are of recently developed applications, and in a few examples service is concentrated into hours of intensive wear and tear.

The building industry is now the largest single user of aluminium and its products, and the building section of the booklet has some useful data on the behaviour of aluminium in service. The first example, as one might have guessed, is Eros (1893), but the architect will probably be more impressed by the Pittsburgh church spire, built up from castings bolted in segments to a light steel angle frame. Built in 1927, the steel frame and bolts were repainted in 1939, but the aluminium has been untouched and annual inspections report no more than surface darkening from the sooty industrial atmosphere. The other examples are of various dates—all pre-war—and make interesting reading for anyone who has doubts about aluminium's corrosion resistance. (*Aluminium Development Association, 33, Grosvenor Street, London, W.1.*)

INSTITUTIONAL HYGIENE

Bratt, Colbran, Ltd., have just announced a small automatic gas-operated incinerator for use in offices, factories, hospitals and similar institutions. Fully automatic and finished in white vitreous enamel with chromium fittings, it is easily cleaned with a damp cloth. The handle at the side opens the door and at the same time operates an

oil dashpot controlling the gas valve, which allows a flow of gas to the burner for about three minutes.

The full-on gas rate is 40 cu. ft. per hour and the gas consumption per incineration is about 2 cu. ft. or 1/100 therm.

The appliance must be flued to the atmosphere, and a position should be chosen so that this can be done conveniently. A suitable mounting height is 3 ft. to the base of the body. (*Bratt, Colbran, Ltd., 10, Mortimer Street, London, W.1.*)

FACTORY VENTILATION

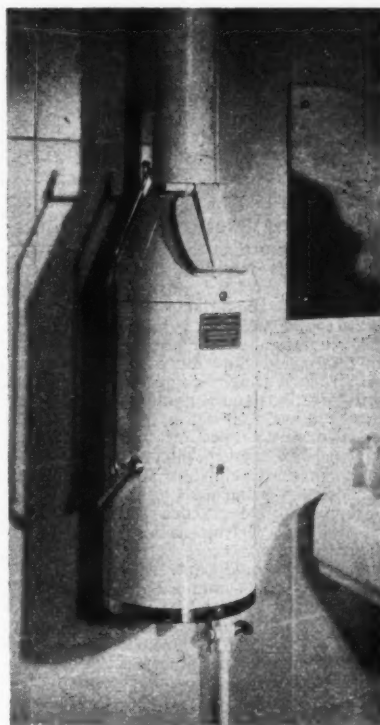
The new clear-opening ventilators designed by Colt Ventilation show a considerable advance in natural ventilation and are particularly intended for the difficult problems which arise in hot industries such as foundries, laundries, engineering shops in which there are a number of small melting pots and crucibles, bakeries with batteries of draw-plate ovens, etc. Not only do they give maximum extraction of hot vitiated air, but they open direct to the sky, giving a clear view into the open which is psychologically of great importance and has a considerable influence on the health and well-being of the workers.

Made in mild steel or aluminium alloy, the ventilators are produced in two types. C.O. 2046 is 2 ft. wide by 4 ft. 6 in. long by 5½ in. deep and is intended for fitting into ordinary glazing bars, the measurements including 1 in. side and 3 in. top and bottom flanges. C.O. 2446 is 2 ft. 4 in. by 4 ft. 6 in. by 5½ in. with 3-in. flanges all round, and is for fitting to any normal sheet roofing material. Each type costs £7 10s. and delivery is prompt.

The photograph gives a good idea of the general arrangement. The louvres are mounted on brass bearings and linked to an operating bar. When closed the ventilator is claimed to be completely rainproof at all normal roof pitches and is drained by side channels. When partly open the ventilator generally remains rain-proof. Easy to fit singly, or in a complete range, these ventilators are, of course, equally suitable for admitting air through walls. (*Colt Ventilation, Ltd., Surbiton, Surrey.*)

PUBLIC HALL LIGHTING

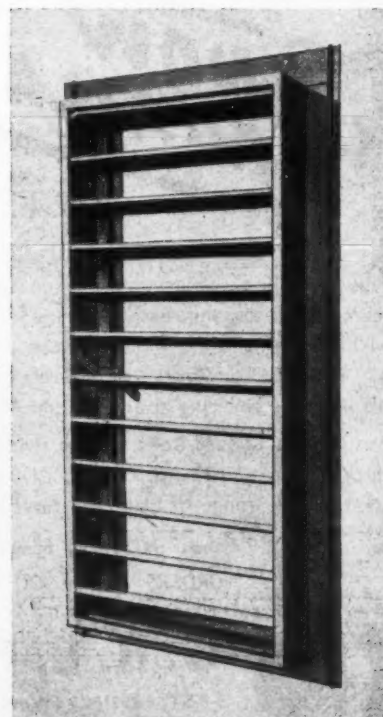
The illustration below shows a redecoration scheme recently completed at the Co-operative Hall, Peckham, the lighting scheme being prepared by the British Thomson-Houston Co., Ltd. This hall is a large building used for a variety of social functions, and the lighting consists of both



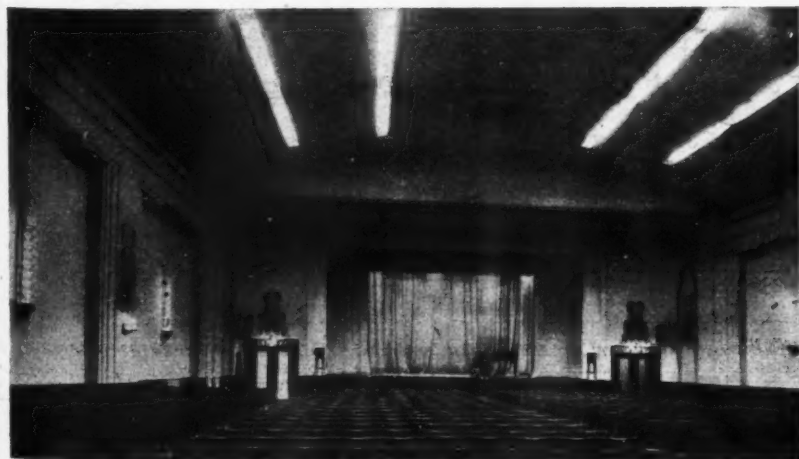
An automatic, gas-operated incinerator.

cold cathode and ordinary fluorescent fittings, the former being equipped with a dimming device.

Built in to the false ceiling are two large plaster-board panels, 50 ft. long by 10 ft. wide. In each long side of these panels are mounted three lines of cold cathode fittings, each housing two intermediate white and one amber lamp. For easy maintenance,



Clear-opening ventilators, designed by Colt Ventilation Ltd.



The Co-operative Hall, Peckham, recently redecorated and equipped with cold cathode and fluorescent light fittings.

which is carried out from above the false ceiling, each fitting is provided with two plugs and sockets for simple disconnection from the mains supply.

In addition to the ceiling lighting, eight wall fittings, each employing a 40-watt fluorescent lamp threaded through trumpet-shaped metal spinnings, are mounted in the wall panels formed by the pilasters. (*The British Thomson-Houston Co., Ltd., Crown House, Aldwych, London, W.C.2.*)

RUBBER DEVELOPMENTS

From time to time the British Rubber Development Board publishes an interesting review *Rubber Developments*, wide in scope but generally containing something of interest to the building industry. In the current number (June) there is an article by the Managing Director of Semtex on the use of latex-cement compositions, and the types of Portland or aluminous cements most suitable for various purposes. There are also some notes on two experimental cement-latex cricket pitches recently laid down for the Chelmsford Cricket Club, the cement-latex being used to replace the matting on concrete practice pitches. Results are not yet perfect, as spin bowlers are alleged to receive more help from the pitch than they should, but with further development this composition finish may prove satisfactory, and be useful for school pitches, as the upkeep of matting is always an expensive item. The final article deals with the advantages of chlorinated rubber for the treatment of concrete against corrosion by acids and other harmful compounds. (*The British Rubber Development Board, Market Buildings, Mincing Lane, London, E.C.3.*)

Buildings Illustrated

Rushmere Hall Junior & Infants' Schools, Ipswich (see pages 40-45). Architects: Johns & Slater, A.R.I.B.A., Chief Assistant, Birkin

Haward, A.R.I.B.A., Assistants, J. C. Butters, A.R.I.B.A., and A. E. Wallis.

General contractor, G. A. Kenney & Sons, Ltd. Sub-contractors: dampcourses, George M. Callender & Co., Ltd.; concrete blocks and roof units, Saunders (Ipswich), Ltd.; bricks, London Brick Company, Ltd.; structural steel, Cocksedge & Co., Ltd.; roofing felt, Standard Flat Roofing Co., Ltd.; partitions, J. H. Weaver, Ltd.; glass, Pilkington Bros., Ltd., and T. W. Ide & Co., Ltd.; patent flooring, Granwood Flooring Co., Ltd., and Limmer & Trinidad Lake Asphalt Co., Ltd.; waterproofing materials, Sealcrete Products, Ltd.; central heating, Norris Warming Co., Ltd.; boilers, Ideal Boiler & Radiator Co., Ltd.; electric wiring, Eastern Electricity Board; electric light fixtures, Benjamin Electric Co., Ltd., and Troughton & Young, Ltd.; electric heating, "Unity" heaters; sanitary fittings, Associated Clay Industries, Ltd., and J. Bolding & Sons, Ltd.; door furniture, W. Rowley & Co., Ltd., Josiah Parkes & Co., Ltd., and Union Lock Co., Ltd.; casements, Crittall Manufacturing Co., Ltd., and Arens Control; folding gates, A. J. Binns & Co., Ltd.; iron staircases, F. A. Norris, Ltd.; joinery, William Brown & Co. (Ipswich), Ltd.; plaster, F. Brown; school fittings and furniture, Tricson Productions, Ltd., Wake & Dean, Ltd., A. & F. Howland, Ltd., Cooke Bailey, Ltd., and D. F. Webber & Harrison, Ltd.; cloakroom fittings, Cloakroom Equipment, Ltd.; clocks, Smiths English Clocks, Ltd.; water supply, Ipswich Corporation Waterworks.

Whitton White House Junior and Infants' School (see pages 46-49) (first instalment). Architects: Johns & Slater, A.R.I.B.A., Chief Assistant, Birkin Haward, A.R.I.B.A., Assistants, A. Diaz, and A. E. Wallis. General contractor, Cubitt & Gotts, Ltd.

Sub-contractors: dampcourses, "Astos" bituminous felt; asphalt, The Limmer & Trinidad Lake Asphalt Co. Ltd. ("Colourphalt" floors), concrete blocks, Saunders

(Ipswich), Ltd. (special pre-cast roof and wall concrete units; bricks), "Roman Rustics," Flettons, Ltd. (facings), common stocks for non-facings, London Brick Co., bricks for manholes, Kisons, Ltd.; structural steel, Cocksedge & Co. Ltd.; special roofings, William Briggs & Sons, Ltd.; partitions (breeze blocks), J. H. Weaver; glass, T. & W. Ide and Pilkingtons, Ltd.; patent flooring, Granwood Flooring Co., Ltd.; central heating, Norris Warming Co., Ltd.; boilers, Ideal Boilers & Radiator Co., Ltd., and Beeston Boiler Co., Ltd.; electric wiring, H. W. Turner; electric light fixtures, The Benjamin Electric, Ltd., and Troughton & Young, Ltd.; electric heating, Unity Heaters; sanitary fittings, Associated Clay Industries, Ltd., and John Bolding & Sons, Ltd.; stair-treads, Safety Tread Syndicate, Ltd.; door furniture, Union Locks, Ltd., Walter Rowley, Ltd., and Josiah Parkes & Co., Ltd.; casements, Crittall Manufacturing Co., Ltd.; window furniture, Crittall Manufacturing Co., Ltd., and Arens Controls; folding gates, A. J. Binns & Co., Ltd.; iron staircases, F. A. Norris & Co., Ltd., and A. J. Binns & Co., Ltd.; joinery flush doors, William Brown & Co. (Ipswich), Ltd.; school fittings and furniture, Wake & Dean, Ltd., A. & F. Howland, Ltd., Cooke Bailey, Ltd., D. F. Webber & Harrison, Ltd., and Tricson Productions, Ltd.; cloakroom fittings, Cloakroom Equipment Co., Ltd.; clocks, Smiths English Clocks, Ltd.; water supply, Ipswich Corporation Waterworks.

Correction

In our issue of June 30 the contractors for the barrel vault roof design of the factory at Congleton were omitted. The contractors were the Barrel Vault Roof (Designs), Ltd.

In the same issue, page 598, Buildings Illustrated—Factory at Congleton by Rudolf Frankel, Architect—the sub-contractor for the Ironmongery was A. J. Binns & Co., Ltd., and not A. J. Burns as printed.

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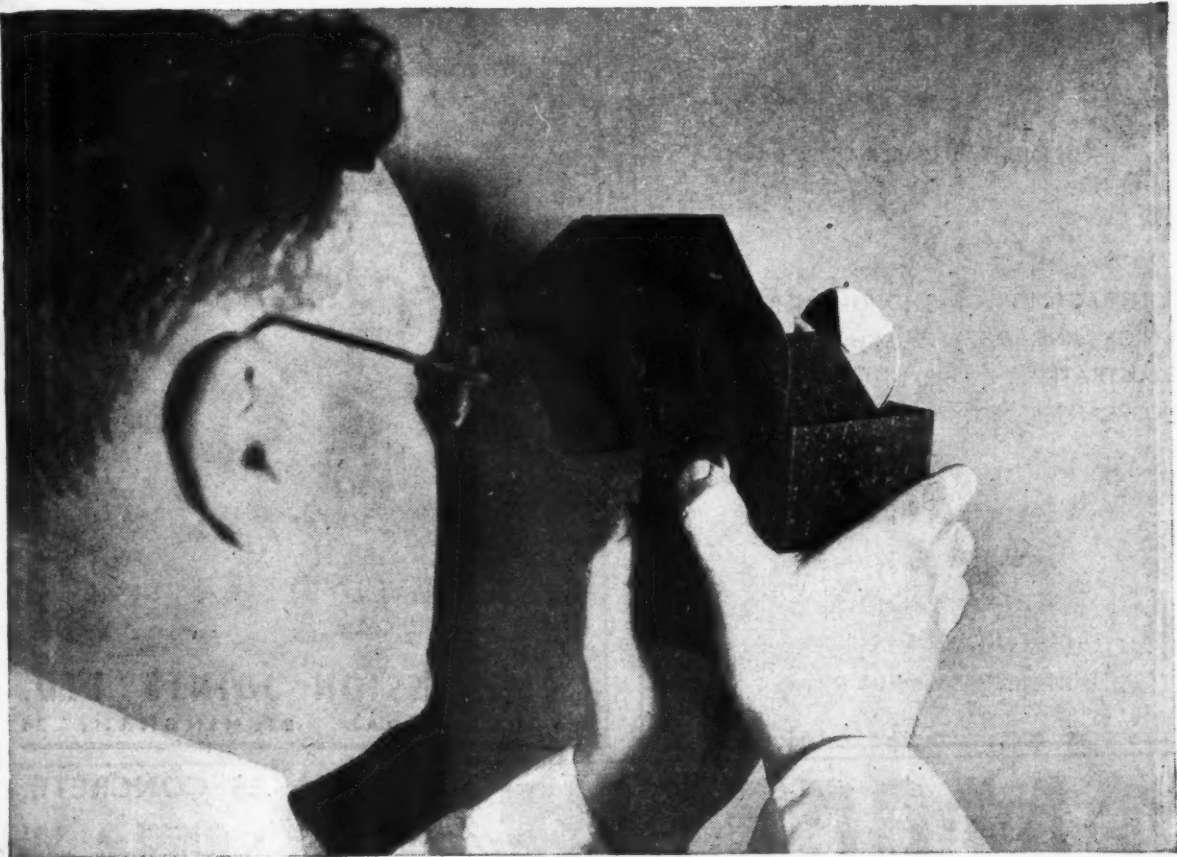
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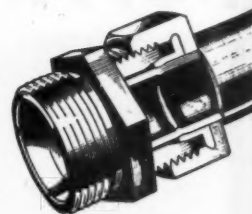
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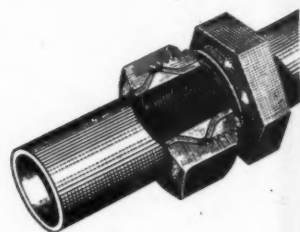
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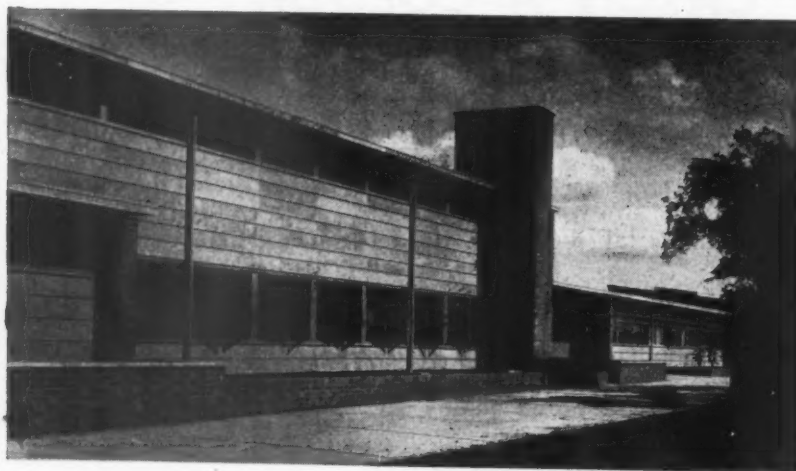


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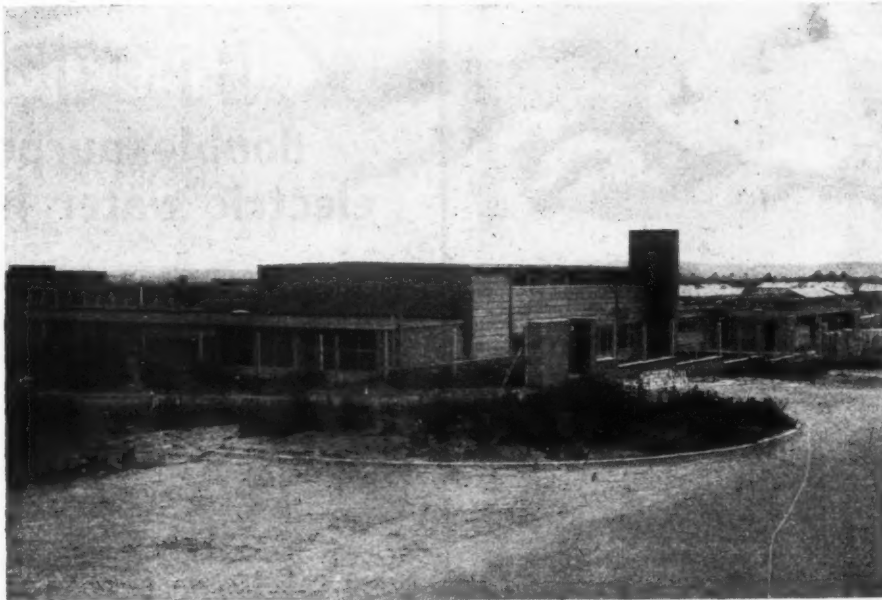
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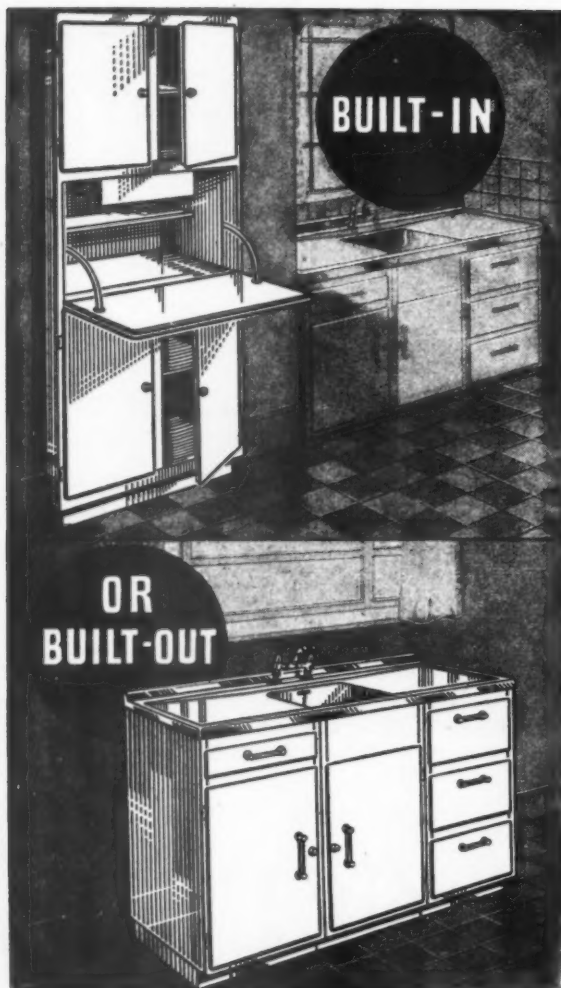
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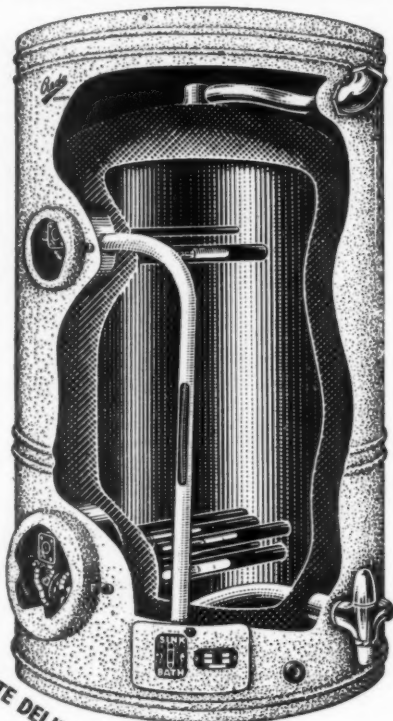
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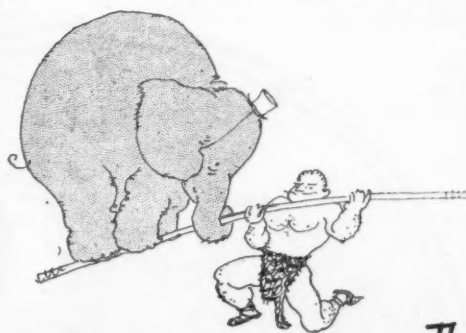
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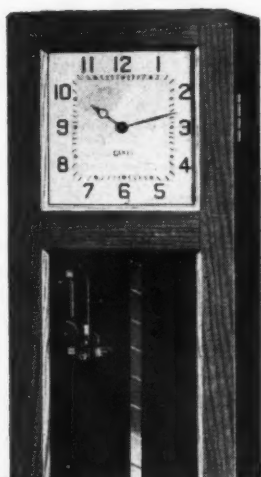
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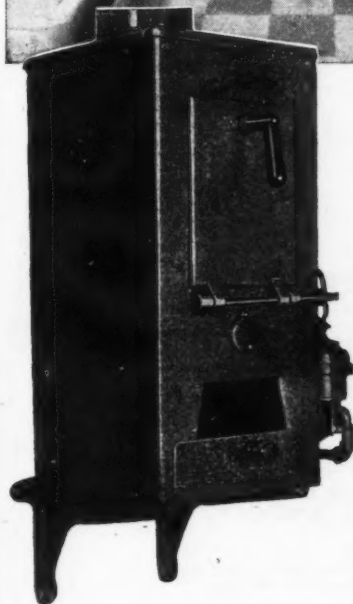
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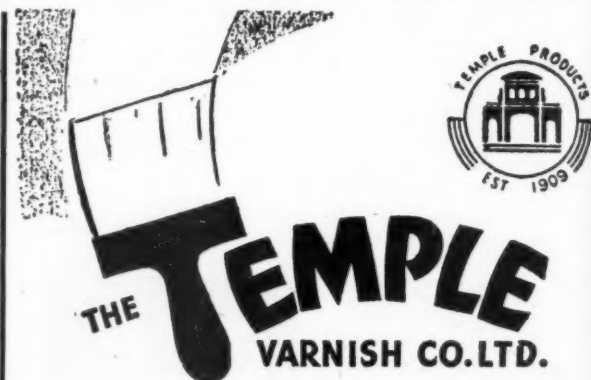
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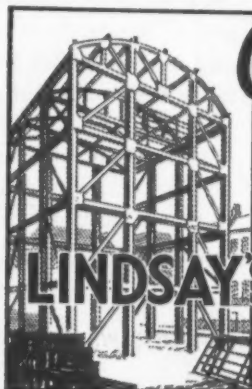
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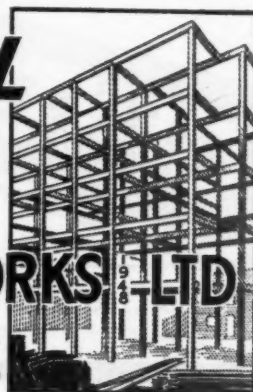
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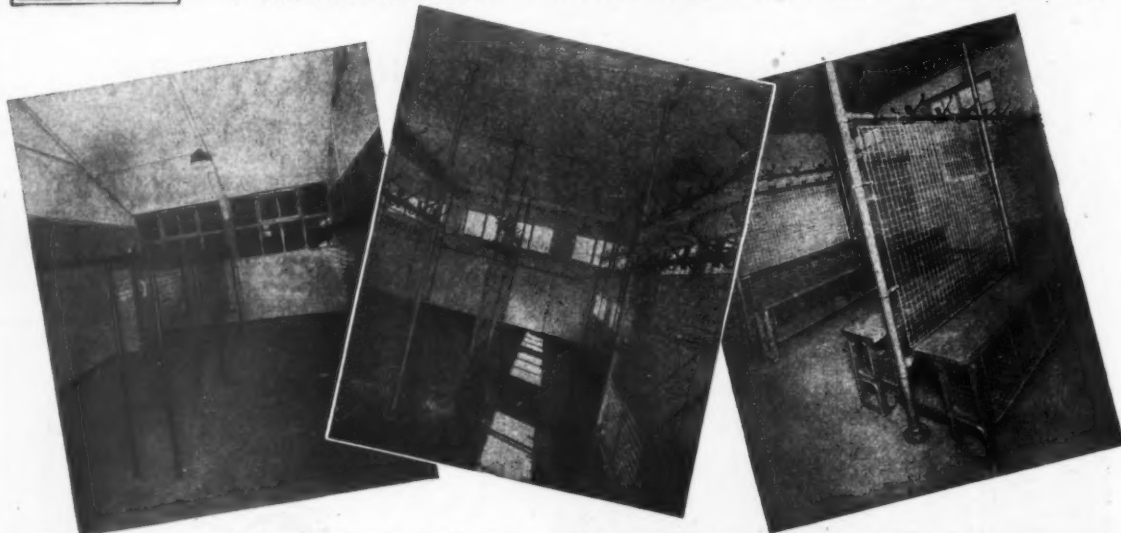
This book gives a comprehensive account of the architectural and building problems which face educationalists today. It surveys the whole field beginning with the historical background and ending with a chapter on modern constructional design; it examines the contemporary architectural problem in relation to the Education Act and deals with each special aspect of school design in detail. It is a book designed to be of value to all education officers and local education authorities as well as to practising architects. The book contains 152 pages including about 120 photographs and plans. Its size is 9½ in. by 7½ in., and it is bound in cloth. Twenty-one shillings, postage ninepence.

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CLASSIFIED ADVERTISEMENTS

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

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

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THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. ADDRESS: EMPLOYMENT REGISTER, WARRY PARK, WYTHLEAF. Tel.: Uplands 0935. 991

LONDON COUNTY COUNCIL

Applications are invited for unestablished positions of (i) ARCHITECT, Grade III (salaries up to £700 a year) and (ii) ARCHITECTURAL ASSISTANTS (salaries up to £580 a year), in the Housing and Valuation Department. Commencing salaries in either grade will be determined according to qualifications and experience. Engagement will be subject to the Local Government Superannuation Act, and successful candidates will be eligible for consideration for appointment to the permanent staff on the occurrence of vacancies.

Successful candidates will be required to undertake the design, layout and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's Division. Preference will be given to candidates holding a recognised professional qualification.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed envelope required, and quote Ref. G.R.3). Canvassing disqualifies. (2269) 1046

LONDON ELECTRICITY BOARD.

Applications are invited for the following appointments in the Architects Section of the Chief Engineer's Department in Central London.

(a) ASSISTANT ARCHITECTS. Commencing salary will be from £550 per annum, dependent upon qualifications and experience.

Applicants should preferably be Associate Members of the R.I.B.A. They should be capable of preparing working drawings and specifications and should have had good general experience in design and construction.

(b) ARCHITECTURAL ASSISTANTS. Commencing salary will be from £500 per annum dependent upon qualifications and experience.

Applicants should be studying for or have passed the Intermediate Examination of the R.I.B.A., be capable draughtsmen and have had several years' experience in an Architect's office.

(c) DRAUGHTSMEN. Commencing salary will be from £350 per annum, dependent upon ability and experience.

Applicants should be neat draughtsmen and preferably have had several years' experience in an Architect's office.

The salaries for the above post are provisional and the salaries and conditions of employment will be in accordance with those laid down from time to time by the appropriate negotiating body.

The successful candidates will be required to contribute to a superannuation scheme and may be required to pass a medical examination.

Application should be made on forms obtainable from the Establishments Officer, London Electricity Board, 46/47, New Broad Street, London, E.C.2, to whom they should be returned, duly completed, within fourteen days of the publication of this notice. 1355

COUNTY BOROUGH OF HUDDERSFIELD. BOROUGH ARCHITECT'S DEPARTMENT. Applications are invited for the appointment of ASSISTANT ARCHITECTS, Grade VI (£595-£650).

Candidates should be suitably qualified and possess a sound experience in the design, construction and maintenance of all types of buildings carried out by a Local Authority, and be capable of carrying contracts through to completion.

Housing accommodation will be made available, if necessary, and candidates are requested to state in their application if such accommodation is required.

The appointment will be subject to one month's notice on either side, expiring at the end of a calendar month, to the provisions of the local Government Superannuation Act, 1937, and the successful applicants will be required to pass a medical examination.

Applications, suitably endorsed, giving age, qualifications, past and present appointments, and full details of experience, together with the names of three referees, must reach the Borough Architect, High Street Buildings, Huddersfield, not later than the 2nd August, 1949.

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

HARRY BANN, Town Clerk.

Town Hall, Huddersfield. July, 1949. 1473

THE CO-OPERATIVE WHOLESALE SOCIETY, LTD., invite applications for the following appointments on the Staff of the Manchester Architects' Department:—

TWO SENIOR ASSISTANT ARCHITECTS. Salary range £675-£775 per annum. Applicants should preferably be Associates of the Royal Institute of British Architects, and must have had considerable experience either in design and planning of modern factories or large shopping emporiums and retail shops. A high standard of architectural design is expected, in addition to administrative ability and experience.

THREE ASSISTANT ARCHITECTS. Salary range £510-£625 per annum. Applicants should preferably be Associates of the Royal Institute of British Architects, and must have a sound architectural experience in planning and design, and be able to undertake work with a minimum of supervision.

THREE ASSISTANT ARCHITECTS. Salary range £470-£535 per annum. Applicants should have a sound knowledge of building construction and architectural design, and be able to produce working drawings and details, under supervision, from sketch plans.

THREE ASSISTANT ARCHITECTS. Salary range £400-£465 per annum. Applicants should be good draughtsmen, and possess a sound knowledge of construction and some general architectural experience.

The above appointments are permanent, and offer prospects of up-grading to competent Assistants. Successful candidates will be required to undergo a medical examination for entry into compulsory superannuation scheme.

Applications, stating age, experience and qualifications, to be addressed to:—The Chief Architect, Co-operative Wholesale Society, Ltd., 1, Balloon Street, Manchester, 4. 1380

COUNTY BOROUGH OF ROTHERHAM.

ASSISTANT ARCHITECT.

Applications are invited for the appointment of an Architectural Assistant, in the office of the Borough Engineer, in accordance with Grade VI of the A.P.T. Division of the National Scale of Salaries, namely, £595 to £660 per annum.

Applicants must be Associate Members of the Royal Institute of British Architects, and preferably with experience in the service of a Local Authority.

The architectural work in the department is very varied, and consists of Educational, Housing, Health and other types of Local Authority Buildings, and the volume of work is rapidly expanding.

The post is superannuable, and the candidate selected for appointment will be required to pass a medical examination.

The appointment will be subject to the conditions of service adopted by the Council, and based on the National Scheme of Conditions of Service. It will be determinable by one month's notice on either side.

Applicants must state whether they are related to any member or officer of the Rotherham County Borough Council. Deliberate omission to disclose any such relationship will disqualify any candidate.

Canvassing of members of the Council, whether direct or indirect, will disqualify.

Applications, endorsed "Architectural Assistant," stating age, qualifications and experience, accompanied by copies of three recent testimonials, should be delivered to the undersigned not later than the 28th July, 1949.

JOHN S. WALL,

Town Clerk.

Municipal Offices, Rotherham, Yorks. 1442

STANDISH-WITH-LANGTREE URBAN

DISTRICT COUNCIL.

APPOINTMENT OF ARCHITECTURAL AND

ENGINEERING ASSISTANTS.

Applications are invited for the following appointments to the Staff of the Engineer and Surveyor's Department:—

(1) ARCHITECTURAL ASSISTANT for Capital Programme.

Salary, Grade IV of A.P.T. Division of National Scale of Salaries (£480-£525).

Qualifications: Experience in preparation of drawings, specifications and quantities for, and the supervision of building works normally undertaken by a local authority, particularly in regard to Housing Schemes. Preference will be given to those who have qualified or partially qualified by passing the examination of an appropriate professional institution.

(2) ENGINEERING ASSISTANT.

Salary, Grade III of A.P.T. Division of National Scale of Salaries (£450-£495).

Qualifications: General experience in Municipal Engineering work, and be neat draughtsmen and accurate Surveyors and Levellers. Preference will be given to candidates holding the whole or parts of the Testamur of the Institution of Municipal Engineers.

The appointments will be subject to the provisions of the National Scheme of Conditions of Service and to the Local Government Superannuation Act, 1937.

The Council is prepared, if required, to offer housing accommodation when available.

Applications, stating position applied for, together with age, qualifications and experience, and the names of two referees, must be delivered to the undersigned not later than Monday, 25th July, 1949.

D. CHISHOLM,

Clerk of the Council.

Council Offices, Standish, Lancashire. 1456

BOROUGH OF HESTON AND ISLEWORTH.

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

(a) SENIOR ARCHITECTURAL ASSISTANT. Salary in accordance with Grade VI of the A.P.T. Division, at the rate of £595×£20×£20×£25-£660 per annum, plus London weighting of £30 per annum.

Applicants must hold the examination qualification for the Association of the Royal Institute of British Architects or a University degree or diploma in architecture approved by the Institution.

Applicants must have had good experience in architectural design of a general character, and preference will be given to candidates experienced in housing and other local government work.

(b) GENERAL ARCHITECTURAL ASSISTANT.

Salary in accordance with Grade III of the A.P.T. Division, at the rate of £450×£15-£495 per annum, plus appropriate London weighting.

Applicants should have good architectural experience, and should have passed the Intermediate Examination qualifying for Associate Membership of the Royal Institute of British Architects.

Preference will be given to candidates who have had experience in the preparation of working and detail drawings in connection with housing and other local government work.

The appointments are to be established posts and subject to the National Scheme of Conditions of Service. Forms of application may be obtained from the Borough Engineer and Surveyor, 88, Lampton Road, Hounslow, Middlesex, by sending a stamped addressed envelope.

Application on the forms provided, endorsed (a) "Senior Architectural Assistant," or (b) "General Architectural Assistant," to be delivered to the Borough Surveyor not later than noon on 25th July, 1949.

Canvassing will disqualify.

HAROLD SWANN,

Town Clerk.

June, 1949. 1458

BOROUGH OF ALTRINCHAM.

APPOINTMENT OF ARCHITECTURAL

ASSISTANT.

Applications are invited for the above permanent appointment, in the Borough Surveyor's Department, at a salary in accordance with Grade III, A.P.T. Division of the National Scale of Salaries (£450, by annual increments of £15 to £495).

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

Applicants should have passed the Intermediate examination of the R.I.B.A. and be used to preparing working and detail drawings and be good draughtsmen.

Applications, stating age, qualifications and experience, together with the names of two persons to whom reference may be made, should be delivered to the undersigned in an envelope endorsed "Architectural Assistant," not later than 16th July, 1949.

Candidates are required to disclose in writing whether to their knowledge they are related to any member of the Council or holder of any senior office under the Council.

Canvassing, either directly or indirectly, will disqualify.

A. GLOSSOP,

Town Clerk.

Town Hall, Altrincham. 1463

KENT EDUCATION COMMITTEE.

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Part-time STUDIO MASTERS required from September next, for periods varying from one to three days weekly.

Salary rates approximating to £4 per day of 5½ hours, plus travelling expenses.

Letters of application, giving details of training and experience, should be sent to the Principal as soon as possible. 1449

LONDON ELECTRICITY BOARD.

Applications are invited for the following appointment in the Architect's Section of the Chief Engineer's Department in Central London:—

QUANTITY SURVEYOR. Commencing salary will be from £700 per annum.

Applicants should preferably be Chartered Quantity Surveyors, and have had considerable experience in a Quantity Surveyor's office.

Applicants should be competent to take responsibility for the preparation of Bills of Quantities, Estimates, Measurement of Works on site, preparation of Interim Certificates and checking of final accounts.

The salary for the above post is provisional and the salary and conditions of employment will be in accordance with those laid down from time to time by the appropriate negotiating body.

The successful candidate will be required to contribute to a superannuation scheme and may be required to pass a medical examination.

Application should be made on forms obtainable from the Establishments Officer, London Electricity Board, 46/47, New Broad Street, London, E.C.2, to whom they should be returned, duly completed, within fourteen days of the publication of this notice. 1356

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

Applications are invited for the above-named appointment in the Architect's Department at a salary to be fixed in accordance with the experience of the selected applicant within either Grade I or Grade II of the A.P.T. Division of the National Scale (£250-£465 per annum).

Applications, giving full details of age, training, qualifications, present and previous appointments, nature of experience, and the names of two persons to whom reference may be made, must be delivered to the undersigned not later than the first post on Monday, 25th July, 1949.

The Council are prepared to provide housing accommodation for the successful applicant, if required.

Canvassing, either directly or indirectly, will disqualify, and candidates should state whether or their knowledge they are related to any member of or the holder of any senior office under the Council.

WM. C. SPEEDY,

Clerk of the Council.

Council House, The Green, Cannock. 1531
6th July, 1949.

**ESSEX COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.**

The Essex County Council invite applications for the following appointments on the established staff of the County Planning Department:—
(a) **THREE PLANNING ASSISTANTS**, at a salary not exceeding the maximum for Grade VI, A.P.T.D. (£660 per annum), at Leytonstone and Broomfield.

(b) **THREE PLANNING ASSISTANTS**, at a salary not exceeding the maximum for Grade V, A.P.T.D. (£570 per annum), at Leytonstone, Romford and Colchester.

(c) **PLANNING ASSISTANT**, at a salary not exceeding the maximum for Grade IV, A.P.T.D. (£525 per annum), at Braintree.

(d) **THREE PLANNING ASSISTANTS**, at a salary not exceeding the maximum for Grade III, A.P.T.D. (£495 per annum), at Broomfield and Leytonstone.

(e) **TWO PLANNING ASSISTANTS**, at a salary not exceeding the maximum for Grade II, A.P.T.D. (£465 per annum), at Braintree and Colchester.

The salary in each case will be fixed in accordance with the qualifications and experience of the applicant appointed, but will not exceed the maximum salary for the post concerned as stated above.

Candidates for post (a) must be Corporate Members of the Town Planning Institute, and preference will be given to those who possess an additional professional qualification to that stipulated. Previous planning experience in a County Planning Department will be an advantage.

Candidates for post (b) must have passed the Intermediate Examination of the Town Planning Institute, or an equivalent Planning examination. Preference will be given to applicants who are Corporate Members of the Town Planning Institute or who possess an additional professional qualification to that stipulated. Previous planning experience in a County Planning Department will be an advantage.

Candidates for posts (c) and (d) should have had good general experience in a planning office with regard to development control and basic survey. Preference will be given to candidates who have passed the Intermediate Examination of the Town Planning Institute or some other recognized professional institution.

Candidates for post (e) should have had good general experience in a planning office with regard to development control and basic survey or should have passed the Intermediate Examination of the Town Planning Institute or some other recognized professional institution.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination to the satisfaction of the Council.

The Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, as from time to time amended, and as adopted by the County Council, is at present applicable to persons appointed on the established staff.

Canvassing, directly or indirectly, will disqualify.

Applications must be made on a form to be obtained from the County Planning Adviser, Broomfield Place, Broomfield, Chelmsford, to whom they should be returned as soon as possible.

JOHN E. LIGHTBURN,

Clerk of the County Council.

**METROPOLITAN BOROUGH OF
WANDSWORTH.
ARCHITECTURAL ASSISTANT.**

Applications are invited for the Established appointment of Architectural Assistant, in the Borough Architect's Department, at a salary in accordance with Grades A.P.T., I, viz., £420-£465 per annum inclusive.

Candidates are not studying for the R.I.B.A. Examinations and have had some experience in general architectural work.

Forms of application may be obtained from the Borough Architect, and must be returned to the undersigned not later than 22nd July, 1949.

R. H. JERMAN,

Town Clerk.

Municipal Buildings, Wandsworth, S.W.18. 1472
28th June, 1949.

**LONDON COUNTY COUNCIL.
QUANTITY SURVEYORS.**

Vacancies exist for Quantity Surveyors in the Housing and Valuation Department, for work in connection with the development of cottage estates and the construction of multi-storey dwellings, at salaries of up to £700 a year, the commencing salary in each case being determined according to qualifications and experience. Successful candidates will be required to contribute to the Council's Superannuation and Provident Fund, and will be eligible for appointment to the Council's permanent staff and for advancement on the occurrence of vacancies.

Duties will include:—

(a) Measurement of work in construction of houses, roads and sewers, preparation of interim and final bills; measurement and adjustment of sub-contracts; preparation of cost statistics, estimates, etc.

(b) Management of housing contracts of considerable value; interim valuations for payments; measurement of variations and settlement of final accounts.

Forms of application may be obtained from the Director of Housing and Valuer, The County Hall, Westminster Bridge, S.E.1 (a stamped addressed foolscap envelope required), quoting Q.S.1.

Canvassing disqualifies. (2140) 752

**LONDON COUNTY COUNCIL.
VACANCIES FOR ARCHITECTS (GRADE III)
AND TECHNICAL ASSISTANTS IN THE
ARCHITECT'S DEPARTMENT.**

Applications are invited for the following vacancies in the Architect's Department:—
ARCHITECT, Grade III. Salary £550 to £700 a year.

TECHNICAL ASSISTANTS (Section (a)). Salary £440 to £530 a year.

TECHNICAL ASSISTANTS (Section (b)). Up to 167s. 6d. a week.

Required for the preparation of schemes, working drawings, specifications, and estimates for works at schools and other buildings.

Commencing rate according to qualifications and experience. The positions will be temporary in the first instance, and successful candidates are required to contribute to the Council's Superannuation and Provident Fund, and are eligible for permanent appointment and for advancement to higher positions, according to merit. Candidates for Grade III positions should possess appropriate professional qualifications.

Application forms may be obtained from the Architect to the Council (AR/P/A), County Hall, Westminster Bridge, London, S.E.1, enclosing stamped addressed foolscap envelope.

Canvassing disqualifies. (635) 1127

**METROPOLITAN BOROUGH OF
SHOREDITCH.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT.**

Applications are invited for the appointment of one Architectural Assistant, in Grade A.P. and T., VI, salary £595-£660 per annum, plus London weighting, or in Grade VA, salary £550-£610, plus London weighting, dependent on the qualifications and experience of the applicants.

Applicants should have good architectural experience and be competent to undertake the preparation of working drawings and details for housing schemes, including multi-storey flats.

Preference will be given to Associates of the Royal Institution of British Architects, and the appointment will be subject to medical examination, the Council's Superannuation Scheme, and general conditions of service.

Applications, stating age, training and experience, together with the names of two persons to whom reference may be made, should be submitted to the undersigned not later than Saturday, 23rd July, 1949, and endorsed "Architectural Assistant."

Any applicant who is related to a member of the Council or the holder of any senior office under the Council must disclose the fact in his application.

C. A. JAMES,

Town Clerk.

Town Hall, Old Street, E.C.1. 1526
July, 1949.

**COUNTY BOROUGH OF STOCKPORT.
CHIEF PLANNING ASSISTANT.**

Applications are invited for the appointment of Chief Planning Assistant, in the Borough Engineer and Surveyor's Department, at a salary in accordance with Grade A.P.T., VII (£635-£710 per annum). Applicants must have a qualification in planning and an additional qualification in engineering or architecture will be an advantage.

The appointment will be subject to (a) the National Scheme of Conditions of Service, (b) the provisions of the Local Government Superannuation Act, 1937, (c) the passing of a medical examination.

Applicants must disclose in writing whether to their knowledge they are related to any member or senior officer of the Council.

Applications, giving age, qualifications, experience, present and past appointments (with dates), together with copies of not more than three recent testimonials, to be delivered to the undersigned not later than Wednesday, 27th July, 1949.

WM. F. GARDNER, M.I.C.E.,

A.M.T.P.I.

Borough Engineer and Surveyor.

Town Hall, Stockport. 1475

**COUNTY OF LINCOLN—PARTS OF
LINDSEY.**

COUNTY ARCHITECT'S DEPARTMENT.

In view of the large building programme the following Senior Architects are required:—
THREE SENIOR ARCHITECTS. Grade VII, £635-£710 per annum.

A subsistence allowance will be paid to married men finding it necessary to stay in lodgings in Lincoln whilst maintaining their homes outside Lincoln of 25s. per week for six months, plus 3rd class railway fare to their home each two months.

Applicants need not have had previous Local Government experience, but preference will be given to Associates of the R.I.B.A.

Applications to be made on the official form, to be obtained from the undersigned, should be returned not later than the 25th July, 1949.

A. RONALD CLARK, A.R.I.B.A.,

A.M.T.P.I.

County Architect.

County Offices, Lincoln. 1409

WAR DEPARTMENT

There are vacancies in the Senior Architect's office at Chessington for **ARCHITECTURAL ASSISTANTS** with recognized training, and not below 3 years' responsible experience in an architect's office and not less than R.I.B.A. Intermediate standard. The work is varied and interesting and affords opportunity for further experience. Salary: Architectural Assistant, £283-£495 per annum; Leading Architectural Assistant, £470-£595 per annum, plus overtime. Starting pay will be assessed according to age, qualifications and experience.

The posts are temporary, but some have long-term possibilities, with opportunities of competing for established vacancies.

Apply in writing, stating age, nationality and full details of experience, to The War Office (C.5.A), Metropole Buildings, Northumberland Avenue, London, W.C.2. 1577

BIRMINGHAM CITY TRANSPORT.

Applications are invited for the appointment of a **GENERAL ARCHITECTURAL ASSISTANT** in the Civil Engineering Department of Birmingham City Transport.

Applicants must have had experience in design, construction and maintenance of buildings, preparation of specifications, estimates and quantities.

The salary will be in accordance with the National Joint Council, A.P.T. Division, Grade III, £450-£495 per annum.

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

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

Applications, endorsed "Architectural Assistant," stating age, qualifications and experience together with copies of two recent testimonials, must reach the undersigned not later than Saturday, 30th July, 1949.

A. C. BAKER,

General Manager.

The Council House, Birmingham, 3. 1530

**SITTINGBOURNE AND MILTON URBAN
DISTRICT COUNCIL.**

**APPOINTMENT OF ARCHITECTURAL
ASSISTANT.**

The above Council invite applications for the appointment of Architectural Assistant, in the Engineer and Surveyor's Department, at a salary within Grades IV and V of the A.P.T. Division of the National Scale (£480-£570 per annum).

Candidates should have good experience in general architectural work, particularly in the laying out of estates and the design of houses, and preference will be given to candidates who are Associate Members of the Royal Institution of British Architects, or hold equal qualifications.

Applications, endorsed "Architectural Assistant," stating age, qualifications and experience, past and present appointments, accompanied by copies of two recent testimonials or names of two persons from whom references can be obtained, to be sent to the undersigned not later than 4 p.m. on Tuesday, 19th July, 1949.

D. ALLEN,

Clerk of the Council.

Council Offices, High Street, Sittingbourne. 1529
6th July, 1949.

BOROUGH OF ROWLEY REGIS.

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

**APPOINTMENT OF THIRD ARCHITECTURAL
ASSISTANT.**

Applications are invited for the above appointment at a salary in accordance with Grade IV of the A.P.T. Division of the National Scale of Salaries (£480-£515-£585 per annum).

The appointment will be subject "to the National Scheme of Conditions of Service and to the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

Applicants should have had previous experience of housing work in the office of a qualified architect, and should possess a sound knowledge of architectural design.

Applications, stating age, qualifications and experience, accompanied by copies of not more than three testimonials, should be sent to the Borough Engineer and Surveyor, so as to reach him not later than the 23rd July, 1949.

R. HEGAN,

Town Clerk.

Municipal Buildings, Old Hill, Staffs. 1500
5th July, 1949.

**WEST SUFFOLK COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.**

Applications are invited for the following appointments in the County Architect's Department. Salaries as indicated in accordance with the National Joint Council Salary Scales, position on scales according to qualifications and experience, etc.:

- (a) QUANTITY SURVEYOR. A.P.T., Grade VI.VI (£595-£710).
(b) ASSISTANT ARCHITECT. A.P.T., Grade VI (£595-£660).
(c) ASSISTANT ARCHITECT. A.P.T., Grade V.Va (£520-£610).

Candidates in respect of (a) should have had experience in the preparation of Bills of Quantities, interim valuations, settlement of final accounts, and estimating for all classes of building work, including new works and improvements to existing County buildings. Preference will be given to those who are Associates of the Royal Institute of Chartered Surveyors (Quantities Division).

Candidates in respect of appointments (b) and (c) should have a sound knowledge of architectural design and construction, be quick and accurate draughtsmen, capable of preparing sketch plans, working drawings and specifications in respect of new school, police, health and other building work normally undertaken by a Local Authority.

The appointments will be terminable by one month's notice in writing on either side, and will be subject to the provisions of the Local Government Superannuation Act, 1937. The successful candidates will be required to pass a medical examination.

Forms of application may be obtained from the undersigned, by whom applications, together with the names of two referees, should be received not later than 14 days after the date of this advertisement.

L. G. H. MUNSEY,

Clerk of the County Council.

Shire Hall, Bury St. Edmunds. 1485
1st July, 1949.

MERIONETH COUNTY COUNCIL.

Applications are invited for the following appointment in the County Planning Department:

SENIOR PLANNING ASSISTANT.

Salary £450, rising by three annual increments of £15 to a maximum of £495.

Applicants should have experience in all matters appertaining to the planning of a large rural area. The County of Merioneth includes over 500 square miles of potential National Park, and the work offers special opportunities in this field. An appreciation of the problems of such an area is desirable.

Preference will be given to candidates who have at least passed the Intermediate Examination of the Town Planning Institute and who have had previous planning experience in the Local Government Service.

The successful applicant should be prepared to run a motor car for official purposes, for which a travelling allowance will be paid.

The appointment is subject to the terms and conditions of service applying to the administrative, technical and clerical officers of the County Council. The appointment will be terminable at the end of any month by one month's notice in writing on either side.

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

Applications, stating age, qualifications, present position and salary, previous appointments held, and full details of experience, accompanied by copies of two recent testimonials, are to be sent to the undersigned not later than Saturday, 6th August, 1949.

HUGH J. OWEN,

Clerk of the County Council.

County Offices, Dolgellau, Merioneth. 1502
4th July, 1949.

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

Applications are invited for unestablished posts of Assistant Architect, Grade A, in the Ministry of Health and Local Government. The appointments, which are in connection with Housing, will so far as can be foreseen last for several years.

Remuneration: Successful candidates will be remunerated within the salary range £700-£900 per annum, and the commencing salary within this range will be fixed in each case according to qualifications and experience.

Qualifications: Candidates who must be Registered Architects by examination, should have experience in up-to-date house design and layout, and some aptitude for research into comparative standards of design and construction.

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, together with copies of two recent testimonials, should be sent without delay to the Director of Establishments, Ministry of Finance, Stormont, Belfast. 49/5/30/4/49 1511

**GOVERNMENT OF NORTHERN IRELAND.
PLANNING VACANCY.**

Applications are invited for a post of ASSISTANT on the technical staff of the Ministry of Health and Local Government. The appointment will be unestablished, but so far as can be foreseen will last for several years.

Qualifications: Candidates must be either Registered Architects by examination, Corporate Members of the Institution of Civil Engineers, or Associates of the Royal Institution of Chartered Surveyors. In addition they must possess a recognized qualification in town planning or have good experience in town planning work.

Preference will be given to suitably qualified candidates who served with H.M. Forces during the 1914-18 or the 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.

Salary: The successful candidate will be remunerated according to qualifications and experience within the salary range £500-£750 p.a.

Closing date: Applications, giving date of birth and full details of training and experience, and accompanied by copies of two recent testimonials, must reach the Director of Establishments, Ministry of Finance, Stormont, Belfast, on or before 22nd July, 1949. 1486

**BOROUGH OF MALDEN AND COOMBE.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.****PERMANENT APPOINTMENT OF GRADE II
ARCHITECTURAL ASSISTANT.**

Applications are invited for the above-mentioned appointment at a salary of £420×£15-£465, plus London weighting.

Applicants should have had good general experience and should be good draughtsmen. They should be engaged upon a course of training leading to a recognized architectural qualification, and preference will be given to candidates who have passed the Intermediate Examination of the Royal Institute of British Architects.

(a) The appointment will be terminable by one month's notice on either side and subject to the National Scheme of Conditions of Service.

(b) The successful candidate will be required to pass a medical examination and to contribute under the Local Government Superannuation Act, 1937.

(c) Applications, giving details of age, experience and present and past appointments, with designations and salaries, and enclosing copies of two recent testimonials, should be addressed to reach the undersigned not later than 30th July, 1949.

(d) Canvassing, directly or indirectly, will be deemed a disqualification, and candidates must disclose in their applications whether, to their knowledge, they are related to any member or senior official of the Council.

HAROLD E. BARRETT,

Town Clerk.

Municipal Offices, New Malden, Surrey. 1500
June, 1949.

**ESSEX EDUCATION COMMITTEE.
SOUTH-WEST ESSEX TECHNICAL COLLEGE
AND SCHOOL OF ART, FOREST ROAD,
WALTHAMSTOW, E.17.**

Required in Department of Architecture and Building, permanent Full-time STUDIO MASTER AND LECTURER IN ARCHITECTURAL DESIGN, to assist primarily in the supervision of the full-time day and evening courses for the Intermediate and Final Examinations of the Royal Institute of British Architects, for which examinations the College is approved as an R.I.B.A. Listed School for full-time preparation. Ability to take classes in Technique of Presentation generally will be an advantage.

Salary £300×£15-£555, plus London allowance of £36 or £48, according to age, and allowances up to £45 for recognized full-time training and £30 for graduation qualification. In fixing the commencing salary, up to twelve increments may be allowed for suitable professional experience. This post also carries a special responsibility allowance of £100 per annum.

Applications (no forms), giving full particulars of training, qualifications and experience, should be submitted to the Clerk to the Governors at the College within two weeks of the appearance of this advertisement.

D. N. BUNGRY,

Acting Chief Education Officer.

County Offices, Chelmsford. 1495

COUNTY BOROUGH OF STOCKPORT.

Applications are invited for the following position:

**GENERAL ARCHITECTURAL ASSISTANT.
A.P.T. V (£520-£570 per annum).**

The 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 copies of two recent testimonials, must be delivered to the undersigned by 6th August, 1949.

Candidates must disclose in their application whether to their knowledge they are related to any member of the Council or to any senior official of the Corporation.

Canvassing, directly or indirectly, will be a disqualification.

WM. F. GARDNER, M.I.C.E.,

A.M.T.P.I.,

Borough Surveyor.

Town Hall, Stockport. 1542

BOROUGH OF BEXLEY.**APPOINTMENT OF ARCHITECTURAL STAFF.****BOROUGH ENGINEER'S DEPARTMENT.**

Applications are invited for the under-mentioned appointments:—

ASSISTANT ARCHITECT (Education), within Grade A.P.T., V or Va, according to qualification and experience.

ARCHITECTURAL ASSISTANT (Housing and General), within Grade A.P.T. IV.

In both cases London "weighting" will be paid in addition to the salary.

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 noon, Saturday, 23rd July, 1949.

Canvassing, directly or indirectly, will disqualify.

W. WOODWARD,

Town Clerk.

COUNTY BOROUGH OF BIRKENHEAD.**APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.**

Applications are invited for the above appointment, salary in accordance with Grade A4 of the National Scales, £480-£525 per annum.

Candidates should be qualified by examination and should be Associates of the Royal Institute of British Architects or have an equivalent qualification, and must have had experience in Housing, Schools alterations and additions to properties, new buildings, quantities, specifications and estimates.

The appointment is subject to one month's notice on either side, and the person appointed will require to pass a medical examination and to contribute the appropriate percentage of his salary in accordance with the Local Government Superannuation Act, 1937.

Applications must be submitted in accordance with the instructions to be obtained from the Borough Surveyor, Town Hall, Birkenhead. Completed applications must be submitted in a plain envelope endorsed "Senior Architectural Assistant," and delivered to me not later than the date specified on the form to be supplied.

DONALD P. HEATH,

Town Clerk.

Town Hall, Birkenhead. 1499
July, 1949.

COUNTY BOROUGH OF GREAT YARMOUTH.**BOROUGH ENGINEER'S DEPARTMENT.****APPOINTMENT OF FOUR SENIOR
ASSISTANT ARCHITECTS.**

Applications are invited for the above appointments, at a salary in accordance with A.P.T. Grade VI (£595-£660 per annum) of the National Conditions of Service.

Preference will be given to Associates of the Royal Institute of British Architects and to applicants who have had previous experience in modern school design.

Applicants need not have had previous Local Government experience.

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

Applications, stating age, qualifications and experience, together with the names of three persons to whom reference can be made, should be enclosed in an envelope endorsed "Senior Assistant Architect," and must reach me not later than Monday, 25th July, 1949.

Canvassing will be deemed a disqualification, and candidates must disclose in writing any relationship to any member of, or holder of any senior office under the Council. Candidates who fail to do so will be disqualified and, if appointed, liable to dismissal without notice.

FARRA CONWAY,

Town Clerk.

Town Hall, Great Yarmouth. 1509
1st July, 1949.

FJ/DAB.

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

Applications are invited for the following appointments:—

(a) ARCHITECTURAL ASSISTANTS. Salary Grade VI. £595-£660.

(b) ARCHITECTURAL ASSISTANT. Salary Grade I. £390-£435.

(c) QUANTITY SURVEYOR. Salary Grade VI. £595-£660.

Applicants for (a) must be A.R.I.B.A., with good general Architectural experience, and for (c) A.R.I.C.S. (Quantities Sub-Division).

The appointments, which may be made within the appropriate scale, will be subject to (i) the Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, and (ii) the provisions of the Local Government Superannuation Act, 1937, and any amendments thereof. Selected candidates will be required to pass a medical examination.

Applications, giving full details of age, qualifications and experience, should be forwarded, together with copies of three recent testimonials, to reach the undersigned by Thursday, 4th August, 1949.

Candidates should state whether or not they are related to member and/or senior official of the Council. Canvassing will be disqualification.

R. O. HARRIS, F.R.I.B.A.,

County Architect.

Park Street, Taunton. 1507
1st July, 1949.

COUNTY OF LINCOLN—PARTS OF
LINDSEY.

Applications are invited for a TEMPORARY CLERK OF WORKS, to supervise the erection of new Police Buildings and Magistrates' Courts and Superintendent's and Inspector's Houses at the Civic Centre Site, Scunthorpe, at a salary of £10 10s. per week inclusive.

Candidates must have practical knowledge of all branches of the Building Trade and be experienced in the supervision and erection of buildings, capable of setting out, taking levels, measuring up, checking quantities, keeping records, and making reports.

The duration of the appointment is expected to be approximately 18 to 24 months. The work is expected to start September-October, 1949. The appointment will be terminable by one month's notice on either side.

Applications, stating age, qualifications and experience, with particulars of past and present employment, and accompanied by copies of three recent testimonials, must be received by the Architects, Messrs. Charles R. Pearson & Son, F.R.I.B.A., 18, Dalton Square, Lancaster, not later than 30th July, 1949.

HERBERT COPLAND,

Clerk of the County Council.

County Offices, Lincoln.

1491

GLOUCESTERSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of ASSISTANT ARCHITECT (Section Leader) on A.P. and T. Grade VIII (£685-£760) in the above Department.

The successful applicant will be in charge of a section of the County and will be responsible for all work carried out in that section.

Applicants should be Associate Members of the R.I.B.A., and have wide experience in projects usually dealt with by a County Council, i.e., Education, Police and Health Buildings.

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

The appointment 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 Saturday, 23rd July, 1949.

GUY H. DAVIS,

Clerk of the County Council.

1st July, 1949.

1490

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) JUNIOR ARCHITECTURAL ASSISTANTS.

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

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

Applicants should state whether or not they possess a motor car and/or hold a driving licence.

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 Saturday, 23rd July, 1949.

GUY H. DAVIS,

Clerk of the County Council.

1st July, 1949.

1489

CARDIGANSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of a DEPUTY COUNTY ARCHITECT, at a salary of £740, rising to £840 p.a.

The appointment will be terminable by three months' notice on either side, and will be subject to the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination.

Applicants who must be Associates of the Royal Institute of British Architects, should state age, present position and salary, previous appointments, whether married or single, and give one recent testimonial, together with the names of two referees.

Applications, endorsed "Deputy County Architect," should be sent to the undersigned not later than 22nd July, 1949.

IVOR EVANS,

Clerk of the Council.

County Council Offices, Great Darkgate Street, Aberystwyth.

29th June, 1949.

1518

CITY OF COVENTRY.

Applications are invited for the following whole-time appointments on the staff of the City Architectural Department:—

(a) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T. VII, commencing at £635 per annum and rising to £710 per annum.

(b) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T. V, commencing at £520 per annum and rising to £570 per annum.

(c) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T. IV, commencing at £480 per annum and rising to £525 per annum.

Applicants for (a), (b) and (c) should be Associate Members of the Royal Institute of British Architects, or hold equivalent qualifications.

(d) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T. III, commencing at £450 per annum and rising to £495 per annum.

Applicants should have passed the Intermediate Examination of the Royal Institute of British Architects.

(e) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T. II, commencing at £420 per annum and rising to £465 per annum.

(f) ONE ARCHITECTURAL DRAUGHTSMAN. Salary on Grade A.P.T. I, commencing at £390 per annum and rising to £435 per annum.

Applicants should be experienced draughtsmen, capable of preparing scale plans of existing buildings. The appointment will be of a duration of not less than two years.

(g) ONE ASSISTANT QUANTITY SURVEYOR. Salary on Grade A.P.T. VII, commencing at £635 per annum and rising to £710 per annum.

Applicants should be Members of the Royal Institute of Chartered Surveyors (Quantities Division), and should have a wide experience of all branches of Quantity Surveying appertaining to the work of a Local Authority.

(h) ONE ASSISTANT QUANTITY SURVEYOR. Salary on Grade A.P.T. IV, commencing at £480 per annum and rising to £525 per annum.

In certain circumstances, housing accommodation may be made available for the successful applicants in the cases of (a), (b) and (g).

Salary increments are subject to satisfactory service.

The posts are subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act, as amended in regard to annuities to widows by the Coventry Corporation Act, 1936, and a satisfactory certificate will be requisite from the Council's Medical Referee. The successful male applicants will be required to contribute to the Municipal Officers', Widows' and Orphans' Pension Fund.

Applications for all the above appointments must be made on the forms obtainable from the undersigned, and should be returned completed, together with copies of not more than two recent testimonials, or names of two persons to whom reference may be made, not later than ten days after the publication of this advertisement.

Canvassing, directly or indirectly, will be a disqualification.

D. E. E. GIBSON,

City Architect.

1a, Warwick Row, Coventry.

14th July, 1949.

1540

CITY OF LEICESTER EDUCATION
COMMITTEE.

COLLEGE OF ART,
SCHOOL OF ARCHITECTURE.

Required in September next a STUDIO DESIGN MASTER. The post will offer opportunity for a young Diploma holder wishing to specialize in Landscape Architecture. Full-time members of staff have opportunities for private practice.

Salary in accordance with Burnham (Technical) Scale, with additions for graduate training and approved professional experience.

Application (no special forms) to the Registrar, College of Art, The Newark, Leicester, within two weeks of the publication of this advertisement.

ELFED THOMAS,

Director of Education.

1538

CITY OF PORTSMOUTH.

CITY PLANNING DEPARTMENT.

Applications are invited for the appointments of TWO ASSISTANT PLANNING OFFICERS, Grade VIII (£685-£760 per annum).

Successful applicants would be required to be responsible for the work of sections of the Department primarily concerned with reconstruction proposals and the preparation of Development Plans.

Applicants must be Corporate Members of the Town Planning Institute, and preference will be given in one appointment to those having architectural training or qualifications.

The Council has in the past given assistance in the provision of housing accommodation in requisitioned premises, or alternatively a special subsistence allowance may be paid to a married applicant for a period of six months after taking up the appointment if he is unable to secure housing accommodation immediately.

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, marked "City Planning Appointment," not later than 30th July, 1949.

Canvassing will disqualify.

V. BLANCHARD,

Town Clerk.

City Council Chambers, Southsea.

14th June, 1949.

1517

LONDON COUNTY COUNCIL.
VACANCIES FOR QUANTITY SURVEYORS'
ASSISTANTS IN THE ARCHITECT'S DEPARTMENT.

(a) TEMPORARY TECHNICAL ASSISTANT. £440×£20—£580 a year.

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

Candidates for (a) should be experienced on interim valuations for payments on account, measuring, adjusting, pricing and agreeing final accounts. Applicants for (b) should be capable of abstracting and billing, and should have had previous experience in a quantity surveyor's office.

Applications are also invited under (a) for a BUILDING WORKS ESTIMATOR, with up-to-date knowledge of all types of construction and experience in pricing Bills of Quantities.

Appointments will be on a temporary basis in the first instance, with opportunities to compete on merit for permanent appointments and promotion on the occurrence of vacancies. Successful candidates will be required to contribute to the Superannuation and Provident Fund.

Application forms from the Architect (AR/P/Q), County Hall, Westminster Bridge, S.E.1, enclosing stamped addressed foolscap envelope. Canvassing disqualifies. (847) 1503

SURREY COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

ARCHITECTURAL ASSISTANT, Grade I, at a commencing salary of £390, rising by annual increments of £15 to £435 per annum, plus London allowance of up to £30 per annum, according to age.

Applicants should be of good general training and give full details in their applications.

It is desirable that applications should be accompanied by a small sample of the applicant's work.

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

CLERK OF WORKS, on major building projects, on the temporary establishment of the County Council. The salary will be up to a maximum of £12 per week, according to the qualifications and experience of the applicant.

All applicants must have been properly trained as craftsmen, and for preference have served as foreman on substantial contracts prior to 1940.

Applications, stating age, qualifications, full details of experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, not later than the 30th July, 1949.

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

DUDLEY AUKLAND,

Clerk of the Council.

County Hall, Kingston-upon-Thames. 1535

COUNTY OF LINCOLN—PARTS OF
LINDSEY.

COUNTY ARCHITECT'S DEPARTMENT.

In connection with the re-organization of the above department, vacancies occur for the following:—

ARCHITECTS:—

(a) SENIOR ASSISTANT ARCHITECT. Grade V, £520 per annum, rising to £570.

(b) SENIOR ASSISTANT ARCHITECT. Grade IV, £480 per annum, rising to £525.

(c) JUNIOR ASSISTANTS. Grade II, £420 per annum, rising to £465.

QUANTITY SURVEYORS:—

(d) SENIOR QUANTITY SURVEYOR. Grade VII, £635 per annum, rising to £710.

(e) ASSISTANT QUANTITY SURVEYOR. Grade IV, £480 per annum, rising to £525.

(f) JUNIOR ASSISTANT. Grade I, £390 per annum, rising to £435.

Candidates for (a) should preferably be Associates of the R.I.B.A. and have had good experience in the design and construction of modern buildings. Candidates for (b) and (c) should have a reasonable knowledge of building construction. For the appointment (d) preference will be given to Members of the R.I.C.S., and applicants should be able to take charge of preparation of Bills of Quantities for large works.

For the appointment (e) preference will be given to holders of the Intermediate Examination of the R.I.C.S., and applicants should have had considerable experience in setting of builders' accounts, measuring up and preparation of final certificates, and of abstracting. For the appointment (f) applicants should be able to abstract, square out, and bill small jobs.

The appointments are on the permanent staff of the County Council, and the successful candidates will be required to pass a medical examination.

A subsistence allowance will be paid to married men finding it necessary to obtain lodgings in Lincoln whilst maintaining their homes outside Lincoln of 25s. per week for six months, plus 3rd class railway fare to their home each two months.

Applications, stating age, qualifications, experience, past and present appointments, stating clearly which post is applied for, and accompanied by at least two testimonials, to be sent to the undersigned not later than 1st August, 1949.

A. RONALD CLARK, A.R.I.B.A., A.M.T.P.I.,

County Architect.

County Offices, Lincoln. 1515

The Railway Executive, Western Region, have a vacancy in the Surveyor's and Estate Department, Paddington, for a **JUNIOR ARCHITECTURAL DRAUGHTSMAN**. Applicants should have a good knowledge of building construction and be capable of preparing drawings and specifications, and exercising supervision of building work. Intermediate standard R.I.C.S. (Building) preferred. Salary about £350 p.a., with prospect of advancement. Apply in writing to:
THE SURVEYOR AND ESTATE AGENT,
125, Westbourne Terrace, Paddington, W.2. 1512

WEST SUSSEX COUNTY COUNCIL.
Applications are invited from suitably qualified persons for the post of **ASSISTANT MASTER** to teach Architecture at the County School of Art and Crafts, Worthing. Candidates must be able to prepare students up to the standard of the Intermediate Examination of the Royal Institute of British Architects. Salary in accordance with the Burnham Scale for Assistants in Further Education Institutions, and additional increments for industrial experience will be considered. Application forms may be obtained from the Director of Education, County Hall, Chichester, to whom they should be returned by not later than 14 days from the appearance of this advertisement.
T. C. HAYWARD,
Clerk of the County Council. 1516

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Dated this 6th day of July, 1949.
For and on behalf of Moler Products Limited.
ROBERT WOOD,
Managing Director. 1533

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General Conditions and Bills of Quantities will be supplied on receipt of £5 ss. deposit, returnable upon receipt of a bona-fide Tender or the return of the Bill. Drawings, etc., can be inspected at the office of the County Architect during the usual working hours.
No Tender will be considered unless submitted in the endorsed envelope provided for the purpose, and the Council does not bind itself to accept the lowest or any Tender received.
Contractors will be required to provide proof that they are in a position to provide the necessary labour to carry out the works.
Last day for the receipt of Tender is first post, Thursday, 18th August, 1949.
D. T. JONES,
Clerk of the Education Committee.
County Offices, Haverfordwest, Pems. 1534
7th July, 1949.

Architectural Appointments Vacant

4 lines or under, 5s.; each additional line, 1s. 6d.
ARCHITECTURAL ASSISTANT of Intermediate standard, required immediately by Firm of Architects in West End of London; salary according to experience and qualifications. Box 1066.
ARCHITECTURAL ASSISTANTS required immediately for interesting and varied work on Schools, Hospitals, University Buildings, Housing, etc.; salary dependent on experience or qualifications. Apply personally, by telephone or in writing, Pile Son & Fairweather, Chartered Architects, 5, Queen Anne's Gate, Westminster, S.W.1. Whitehall 5576. 1116
ARCHITECTURAL ASSISTANT required, preferably with industrial experience. Write to Employment Manager, Cadbury Brothers, Ltd., Bourneville, Birmingham, giving age, qualifications and salary required. 1451
ARCHITECTURAL ASSISTANT (single) required for country town office; office trained; good draughtsman; car owner/driver; experience in outside supervision and specifications; salary £400 to £500 per annum. Details to Box 1396.
ARCHITECTURAL ASSISTANT required for interesting and varied work; must have passed Intermediate Examination. Reply, quoting age and experience, to Personnel Dept., Fort Dunlop, Erdington, Birmingham, 24. 1467

ASSISTANT, salary between £500 and £700 p.a. Eric Lyons & G. Paulson Townsend, Chartered Architects, Mill House, Bridge Road, Hampton Court. 1393

ARCHITECTS require **ASSISTANTS**; salaries £400-£600, according to experience; permanent and excellent prospects. Stephenson & Gillis, 2, Saville Chambers, North Street, Newcastle. 1447

ARCHITECTURAL ASSISTANT, Final standard only, required in London; experienced in war damage and conversions, both domestic and commercial nature, to include flats, offices and industrial buildings; 5-day week; bonus, superannuation scheme. Box 1441.

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APPLICATIONS are invited for the appointment of a **TECHNICAL ASSISTANT**, in the Research and Design department of the Timber Development Association; applicants should have a sound knowledge of structural theory, and professional qualifications in architecture or structural engineering are desirable, but not essential; the successful candidate will be engaged on the design and development of structures using timber as an engineering material; salary £400-£500, according to age, qualifications, and experience. Applications to be addressed The Director, Timber Development Association, Ltd., 75, Cannon Street, London, E.C.4. 1513

ARCHITECTURAL ASSISTANT required; Intermediate standard, with office experience or fully qualified, for general practice, including Hospitals, Factories and Offices, etc. Apply Kennington & Farms, F., A. and A.R.I.B.A., Welbeck 6543. 1498



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SCOTTISH SPECIAL HOUSING ASSOCIATION, LTD., invite applications for the following supernumerary appointments: (a) **ESTIMATOR**, £700 x £25-£900; (b) **QUANTITY SURVEYOR**, Grade II, £450 x £25-£675; no bonus is payable in addition to the salary stated; housing accommodation available, if necessary. Forms of application with full particulars can be obtained from the Secretary, 15/21, Palmerston Place, Edinburgh, 12. 1508

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RELIABLE ASSISTANT required; able to detail and assist with design and supervision in Branch office of established County Group of Architects, to work under supervision of resident Partner; every opportunity and good salary for good keen man. Saunders & Partners, 14, Mercer Row, Louth, Lincs. 1494

SENIOR ARCHITECTURAL ASSISTANT required in provinces, 40 miles London; good practical knowledge necessary, with experience in housing, schools and factories; commencing salary £750 per annum; good prospects for keen man. Box 1536.

SENIOR ARCHITECTURAL ASSISTANT required; salary in accordance with experience and qualifications. Apply in writing to Messrs. Tew, Pope & Oliver, A.R.I.B.A., 7, Northumberland Buildings, Bath, giving full particulars of age, training, experience, and salary required. 1491

ARCHITECT to Maidstone Brewery has vacancy for qualified and experienced **SENIOR ASSISTANT**; experience of licensed premises an advantage, but not essential; accommodation available in Maidstone; staff pension scheme; salary according to age and experience. Box 1524.

ARCHITECTS, SENIOR ASSISTANTS required. Should have good knowledge of commercial and industrial buildings and contemporary design. Apply in writing to S.C.W.S., Ltd., Architectural Department, 119, Paisley Road, Glasgow, C.S. Envelopes to be endorsed "Architect." 2025

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ARCHITECTURAL ASSISTANTS required immediately; London office; good salary and prospects. Write, with particulars of age, qualifications, experience, and salary required, to Box 785, c/o 7, Coptic Street, W.C.1. 1496

SENIOR ARCHITECTURAL ASSISTANT required by Firm of Architects and Chartered Surveyors; Registered Architect essential. Apply, giving qualifications and salary required, to Box 1537.

SENIOR ASSISTANT, capable of handling jobs throughout; salary £500-£700, according to experience. Full details, including salary required, to Body, Son & Fleury, Architects and Chartered Surveyors, 22, Lockyer Street, Plymouth. 1539

ASSISTANT ARCHITECT required for general practice. Reply, stating age, qualifications, experience, and salary required, Johnson & Crabtree, F.R.I.B.A., 20, Priory Place, Doncaster. Telephone 3445. 1443

Architectural Appointments Wanted

ARCHITECTURAL ASSISTANT (34), 5 years' University college training, seeking further experience in a London office; good draughtsman. Box 312.

ARCHITECTURAL ASSISTANT (male, 25), evening student Northern Polytechnic, approaching Intermediate R.I.B.A., with 8 years' varied office experience, excluding war service, seeks permanent position in well-established firm in London; neat, accurate draughtsman; capable of carrying out surveys and preparing working drawings and details; salary required £7 10s. per week. Please reply to Box 316.

TECHNICAL ASSISTANT in Council office desires to return to private practice; Intermediate standard, now studying for R.I.B.A. Final; 10 years' practical experience in Architect's and Surveyor's offices prior to present job. Box 323.

ARCHITECTURAL ASSISTANT (27), married, 6 years' experience in country offices, seeks position in small progressive office, Kent or Sussex, with accommodation; capable of making surveys, preparing working drawings, and details without supervision; able to drive car; salary £475. Box 322.

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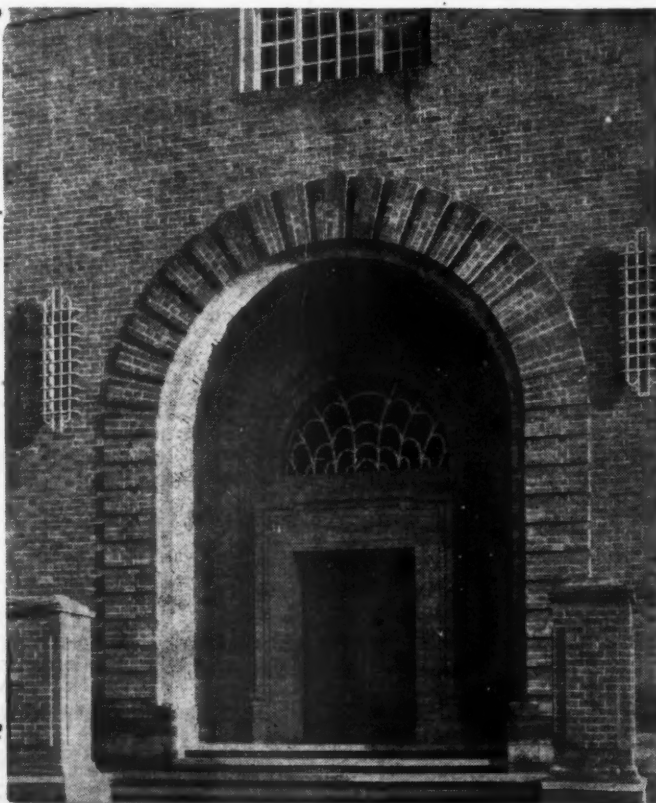
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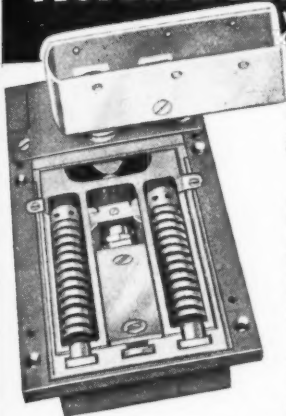
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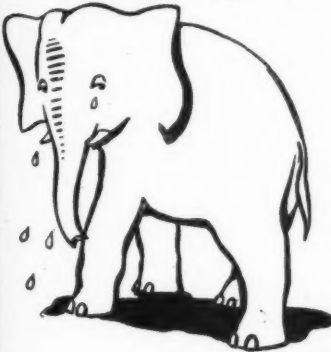


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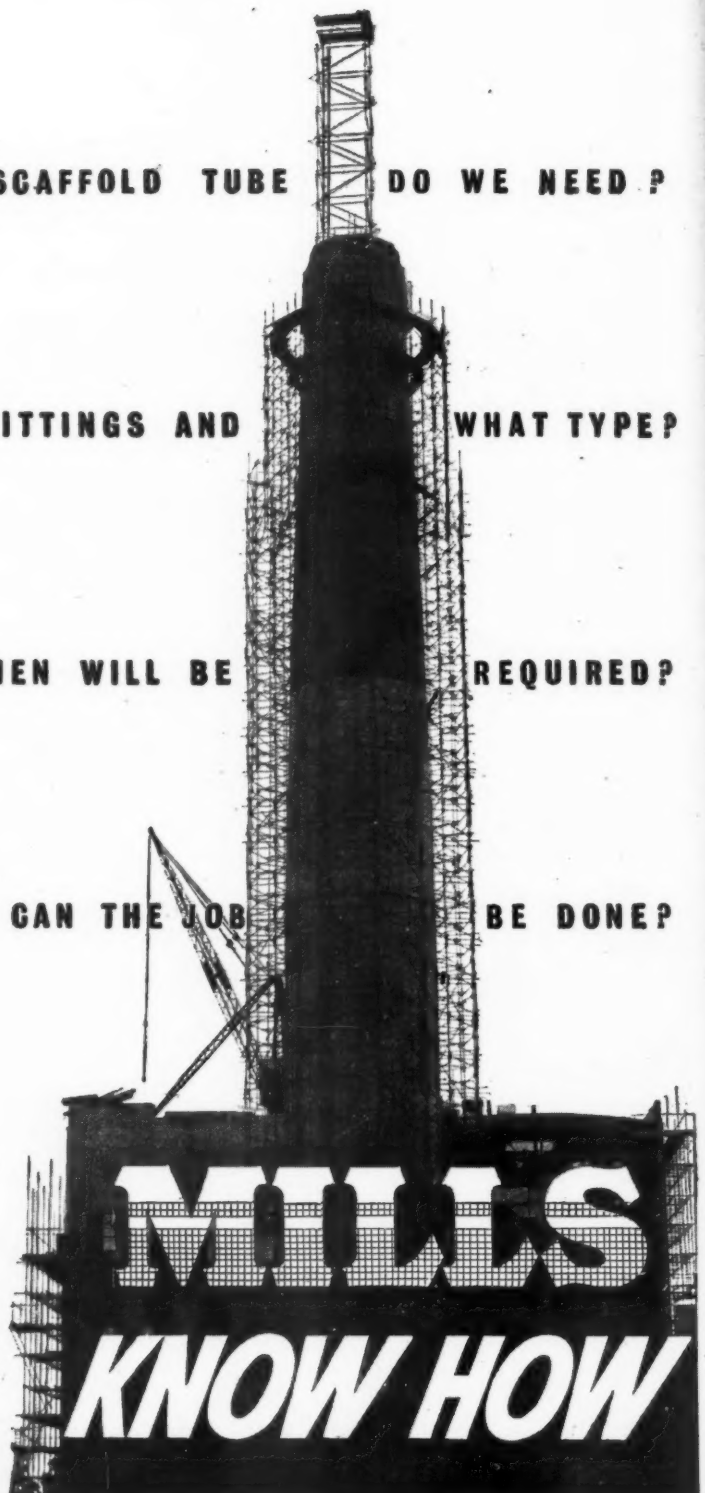
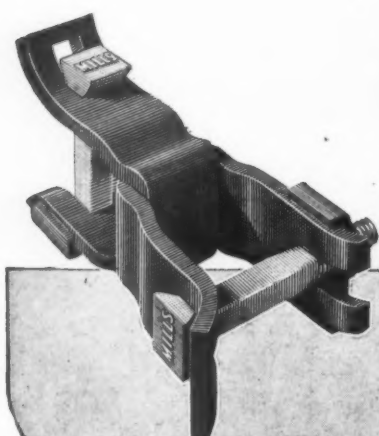
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