

THE ARCHITECTS' JOURNAL



standard contents

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

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

AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhamstead, Herts.	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Welbeck 5721
ABT	Association of Building Technicians. 5, Ashley Place, S.W.1.	Victoria 0447-8
ACGB	Arts Council of Great Britain. 4, St. James' Square, S.W.1.	Whitehall 9737
ADA	Aluminium Development Association. 33, Grosvenor Street, W.1.	Mayfair 7501/8
APRR	Association for Planning and Regional Reconstruction. 34, Gordon Square, W.C.1.	Euston 2158-9
ArchSA	Architectural Students' Association. School of Architecture, Manchester Municipal School of Art, All Saints, Manchester, 15.	Ardwick 3480
ARCUK	Architects' Registration Council. 68, Portland Place, W.1.	Welbeck 9738
ASB	Architectural Science Board of the Royal Institute of British Architects. 66, Portland Place, W.1.	Welbeck 5721
AScW	Association of Scientific Workers. 15, Half Moon Street, Piccadilly, W.1.	Grosvenor 4761
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Welbeck 5721
BATC	Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1.	Reliance 7611, Ext. 1706
BC	Building Centre. 9, Conduit Street, W.1.	Mayfair 8641/6
BCC	British Colour Council. 28, Sackville Street, W.1.	Regent 3613
BCCF	British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13.	Perivale 6869
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham.	Redditch 716
BDA	British Door Association. 25, Victoria Street, S.W.1.	Abbey 5422-3
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2.	Temple Bar 9434
BGC	British Gas Council. 1, Grosvenor Place, S.W.1.	Sloane 4554
BGF	British Gas Federation. 1, Grosvenor Place, S.W.1.	Sloane 8266
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.	Glasgow Central 2891
BIAE	British Institute of Adult Education. 29, Tavistock Square, W.C.1.	Euston 5385
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Chancery 7772
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Langham 2785
BOT	Board of Trade. Millbank, S.W.1.	Whitehall 5140
BRS	Building Research Station. Bucknalls Lane, Watford	Garston 2246
BSA	British Steelwork Association. Eggington House, Buckingham Gate, S.W.1.	Victoria 7301-2-3
BSA	Building Societies Association. 14, Park Street, W.1.	Mayfair 0515
BSI	British Standards Institution. 28, Victoria Street, S.W.1.	Abbey 3333
CAS	County Architects Society. C/o A. Guy Chant, F.R.I.B.A. Salop County Council, 5, Belmont, Shrewsbury.	Shrewsbury 3031
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Sloane 5255
CDA	Copper Development Association. Kendals Hall, Radlett Herts.	Radlett 5616
CIAD	Central Institute of Art and Design. 41, 42, Dover Street, W.1.	Regent 3074
CIAM	Congrès Internationaux d'Architecture Moderne. Dolderal, 7, Zurich, Switzerland	
CID	Council of Industrial Design. Tilbury House, Petty France, S.W.1.	Whitehall 6322
CPC	Codes of Practice Committee. MOW, 42, Onslow Gardens, S.W.7.	Kensington 8161
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.W.	Sloane 4280
CUJC	Coal Utilization Joint Council. 54, Victoria Street, S.W.1.	Victoria 9851
DIA	Design and Industries Association. 9, Conduit Street, W.1.	Mayfair 5432
DOT	Department of Overseas Trade. 35, Old Queen Street, S.W.1.	Victoria 9040
EC	Electricity Commission. Savoy Court, Strand, W.C.2.	Temple Bar 7565
EJMA	English Joinery Manufacturers Association (Incorporated). Sackville House, 40, Piccadilly, W.1.	Regent 4448
EPNS	English Place-Name Society. 7, Selwyn Gardens, Cambridge.	
FAS	Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
FASSC	Federation of Association of Specialists and Sub Contractors. 21, Tothill Street, S.W.1.	Whitehall 9606
FBI	Federation of British Industries. 21, Tothill Street, S.W.1.	Whitehall 6711
FC	Forestry Commission. 25, Savile Row, W.1.	
FCMI	Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.	Sloane 1002
FDMA	Flush Door Manufacturers Association. Stapleford Road, Trowell, Nottingham.	Ilkeston 623/4/5
FLD	Friends of the Lake District. Pennington House, Nr. Ulverston, Lancs.	Ulverston 201
FMB	Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1.	Chancery 7583
FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1.	Langham 4041
FS (Eng.)	Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
GG	Georgian Group. 27, Grosvenor Place, S.W.1.	Sloane 2844
HC	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Whitehall 2881
IAAS	Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1.	Sloane 3158
ICE	Institution of Civil Engineers. Great George Street, S.W.1.	Whitehall 4577
ICW	Institute of Clayworkers. 4, Vernon Place, W.C.1.	Chancery 6258

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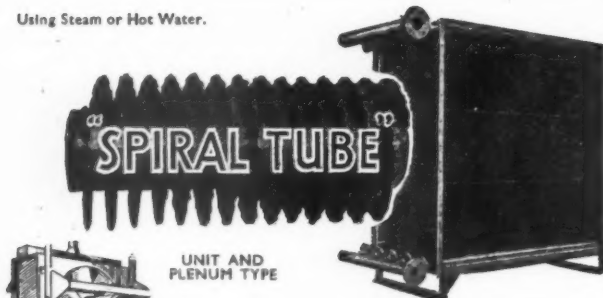
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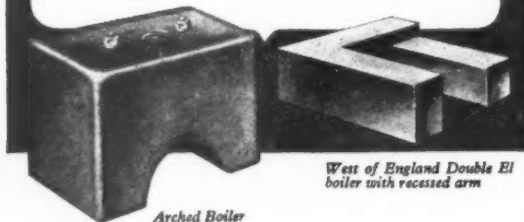
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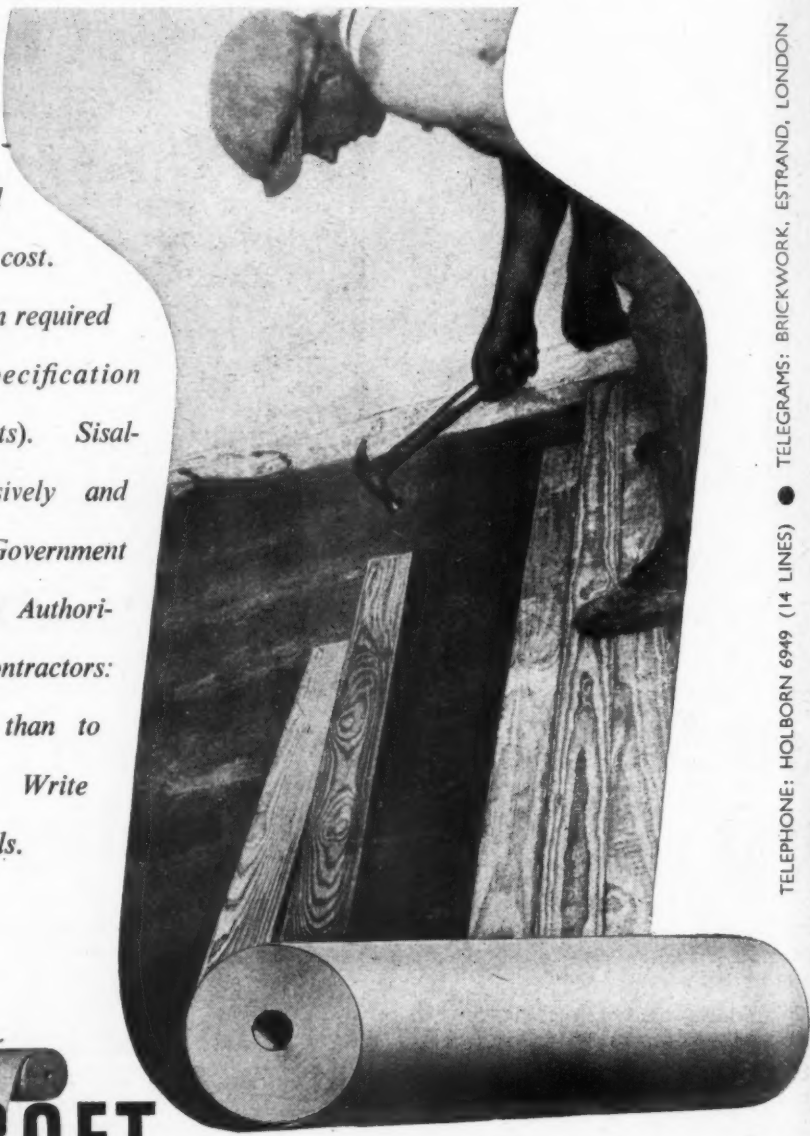
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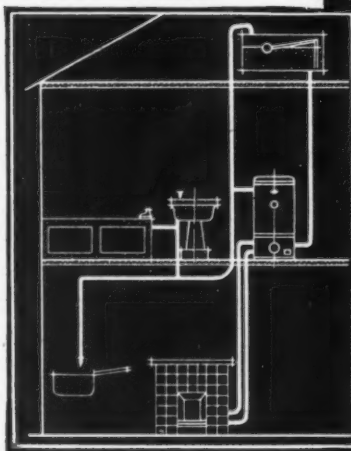
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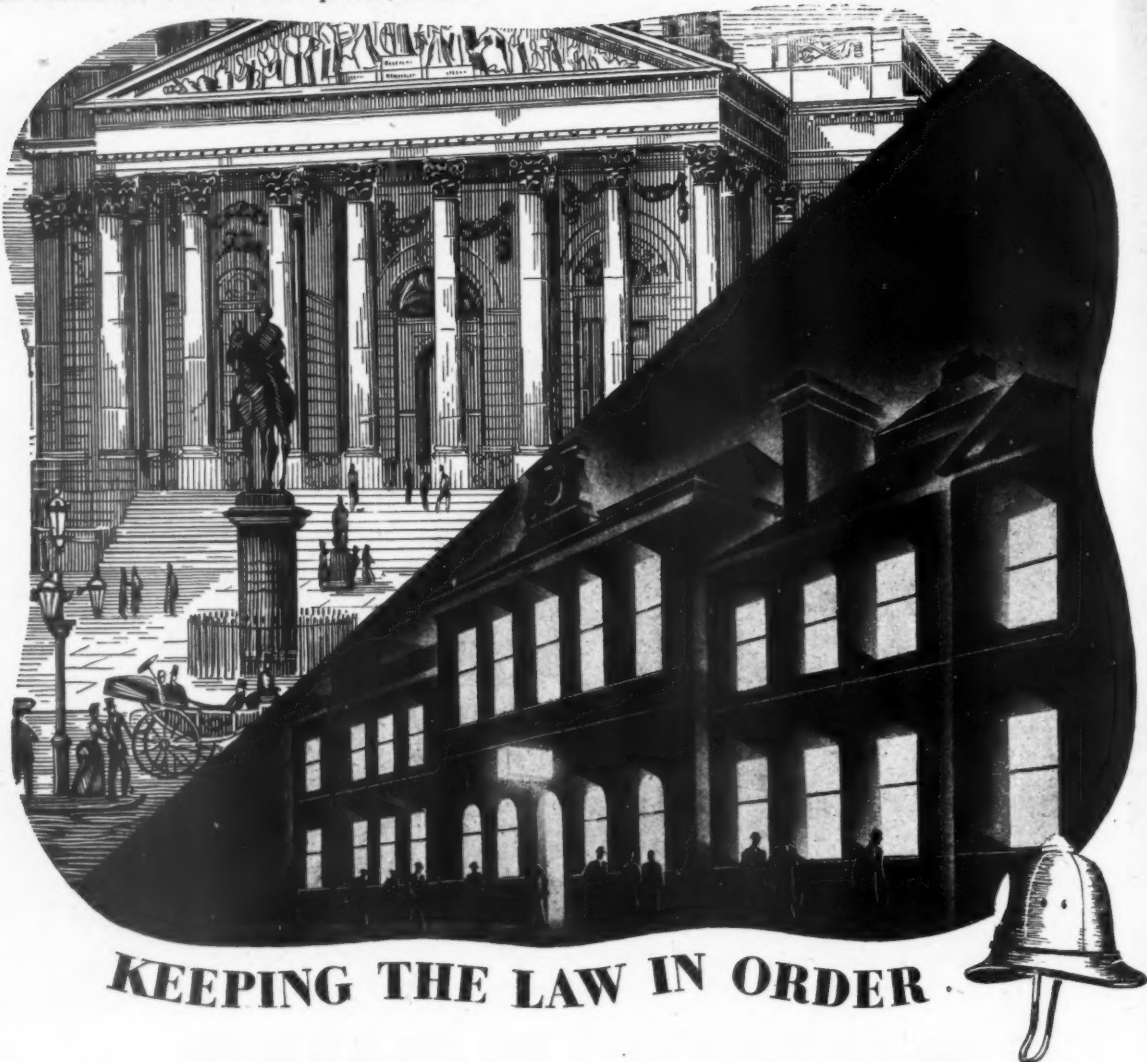
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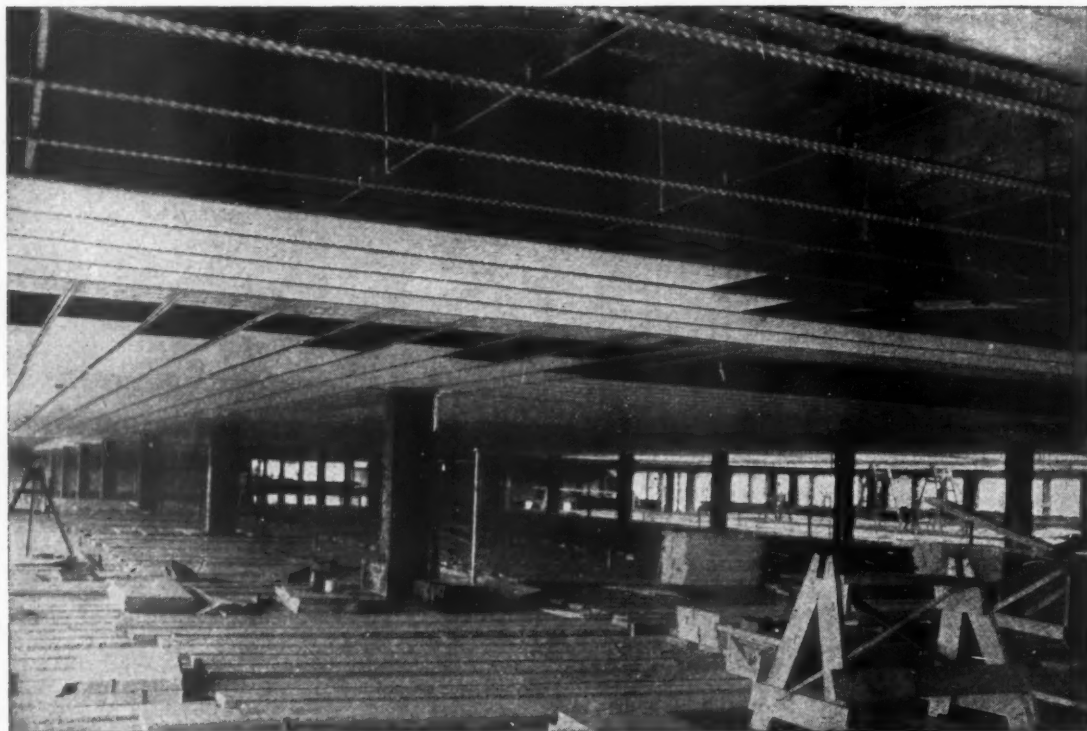
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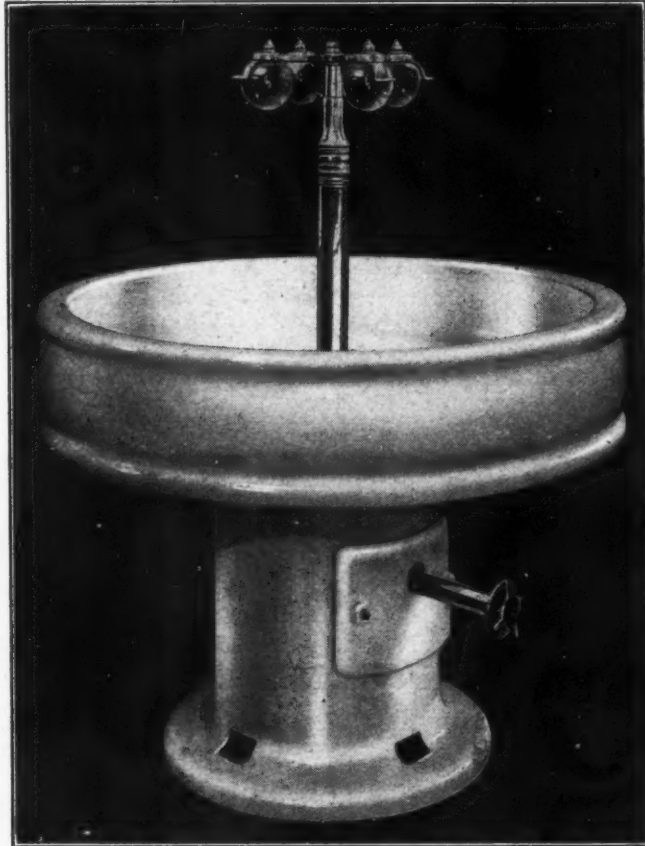
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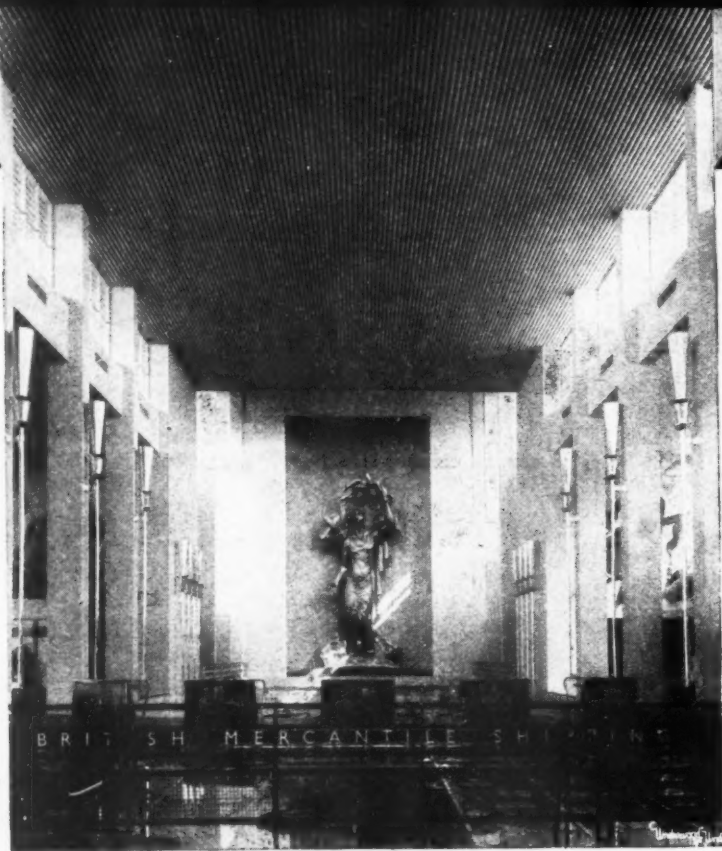
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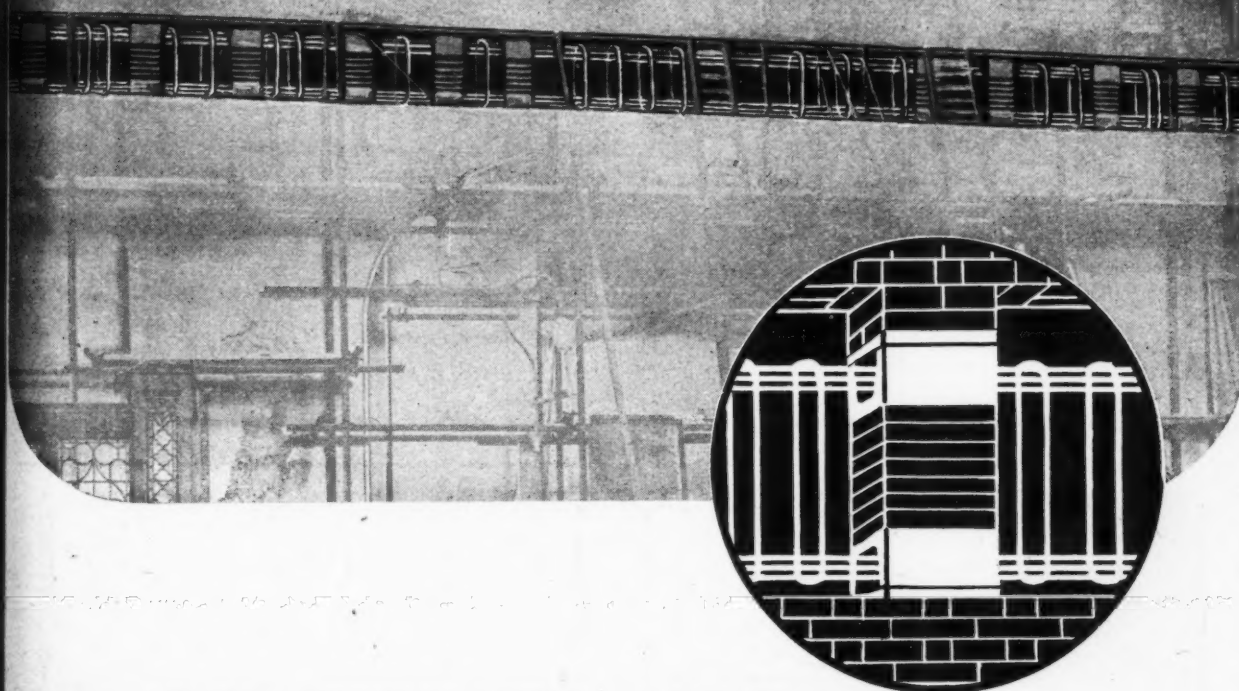
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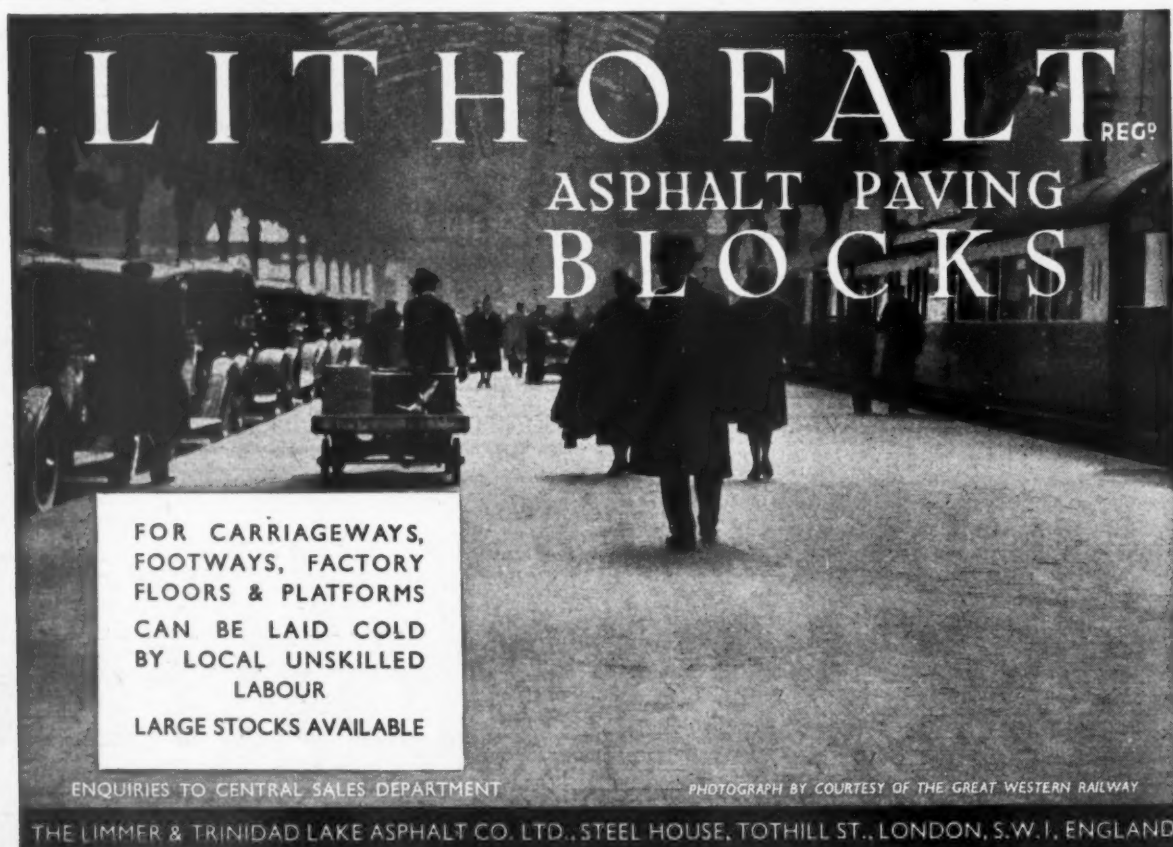
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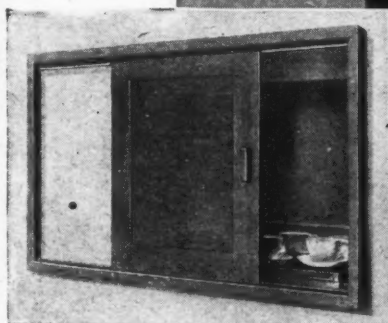
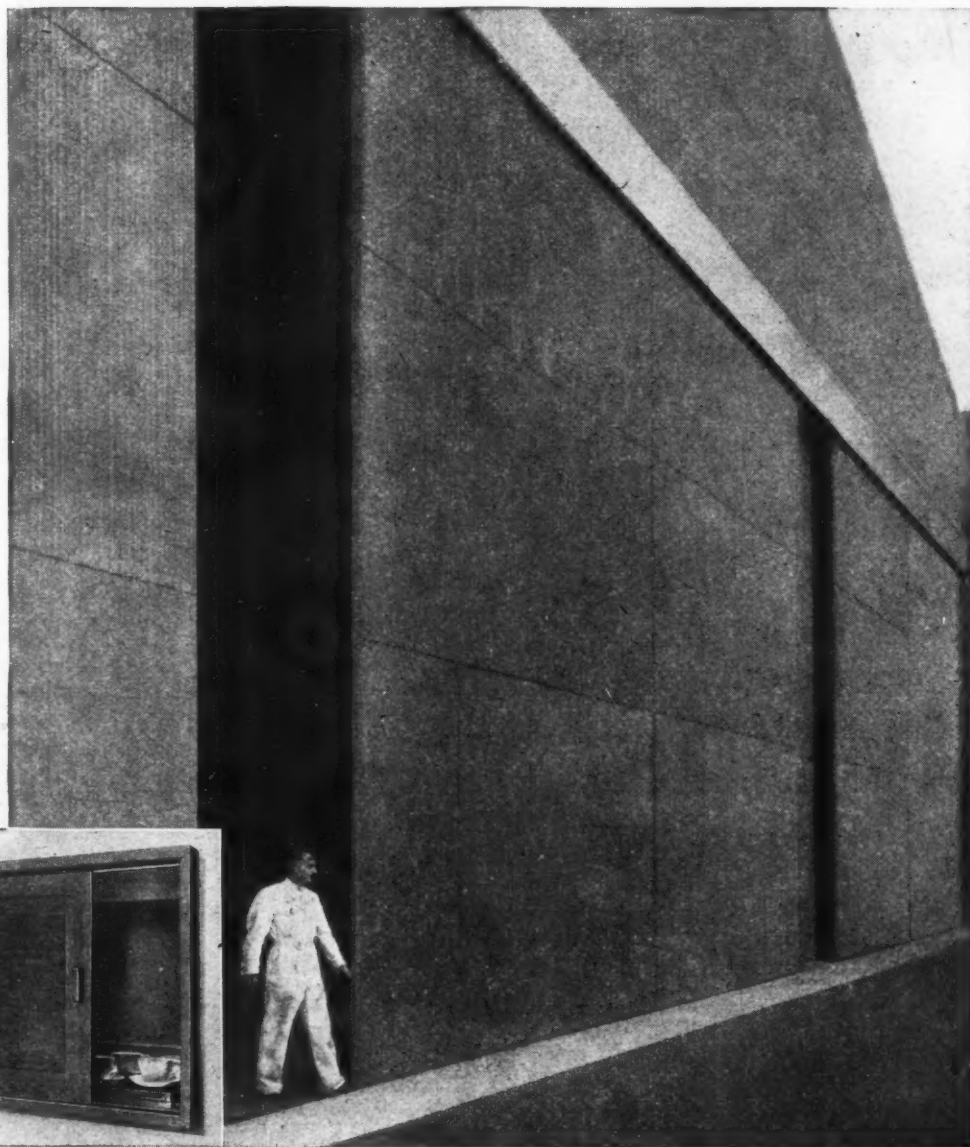
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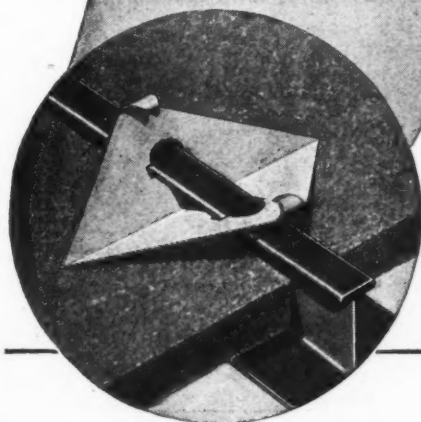
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To County Architects and Education Authorities

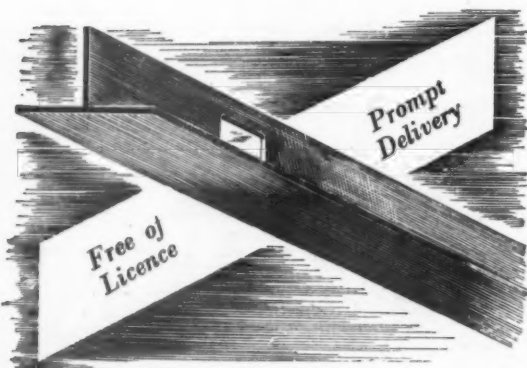
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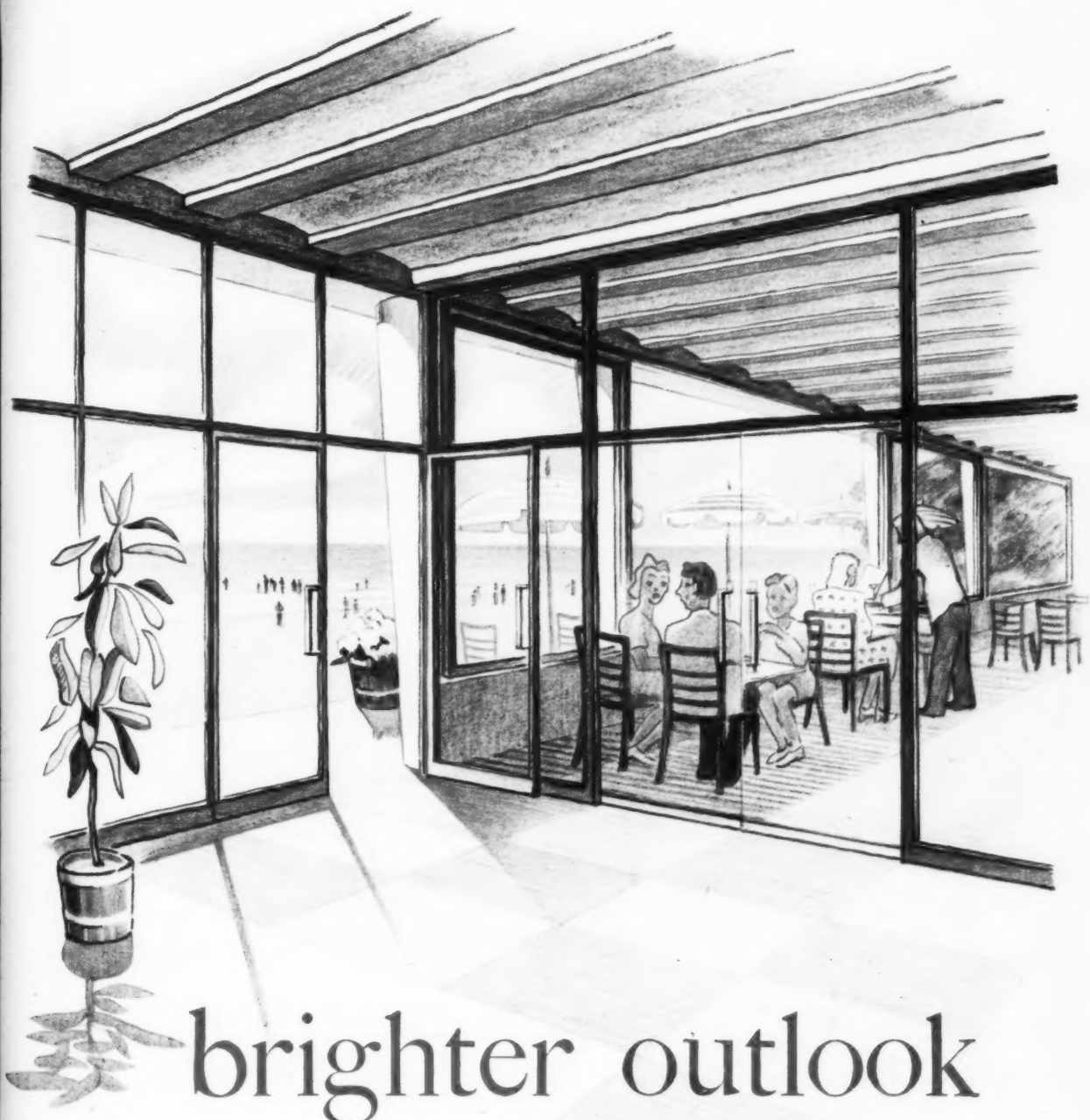
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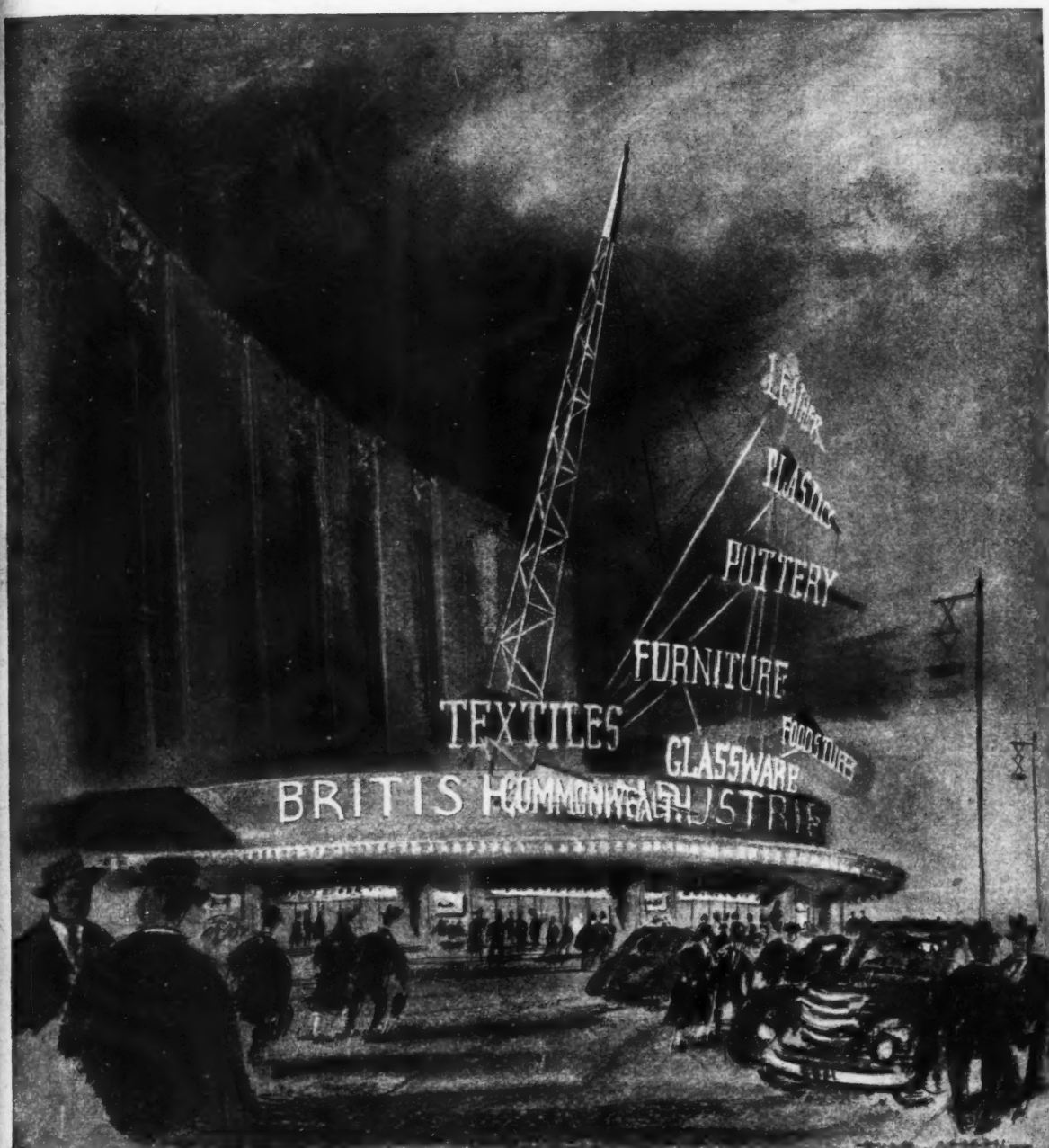


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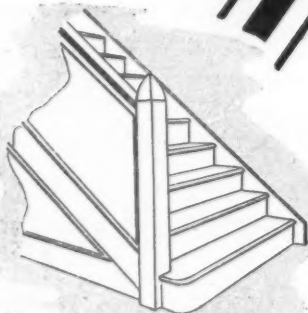
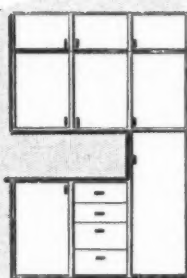
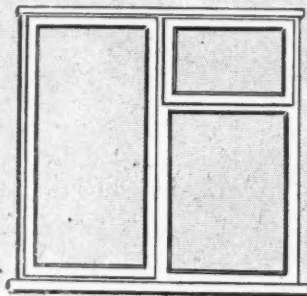
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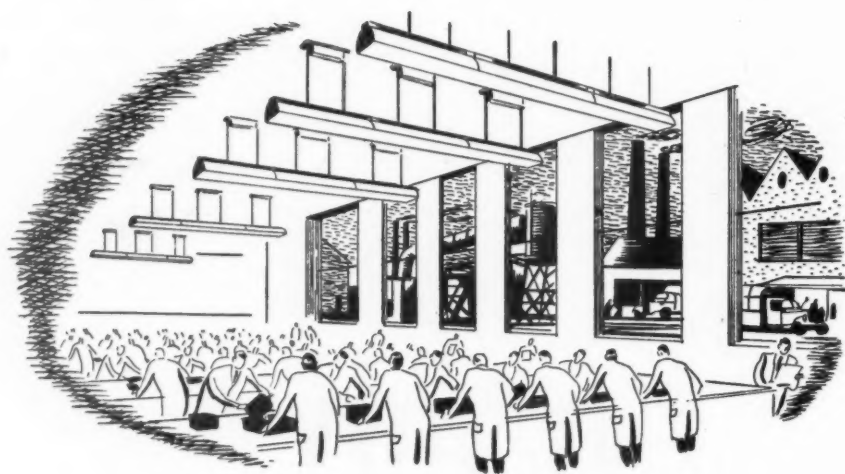
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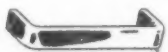
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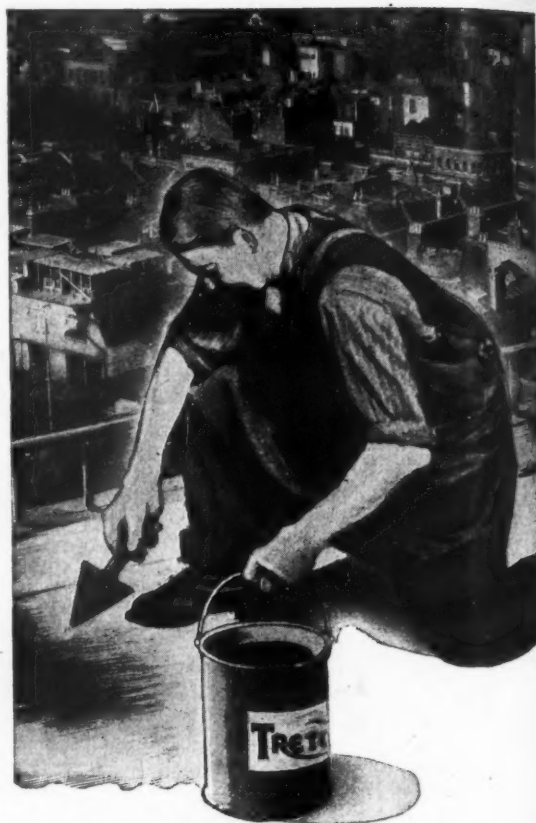
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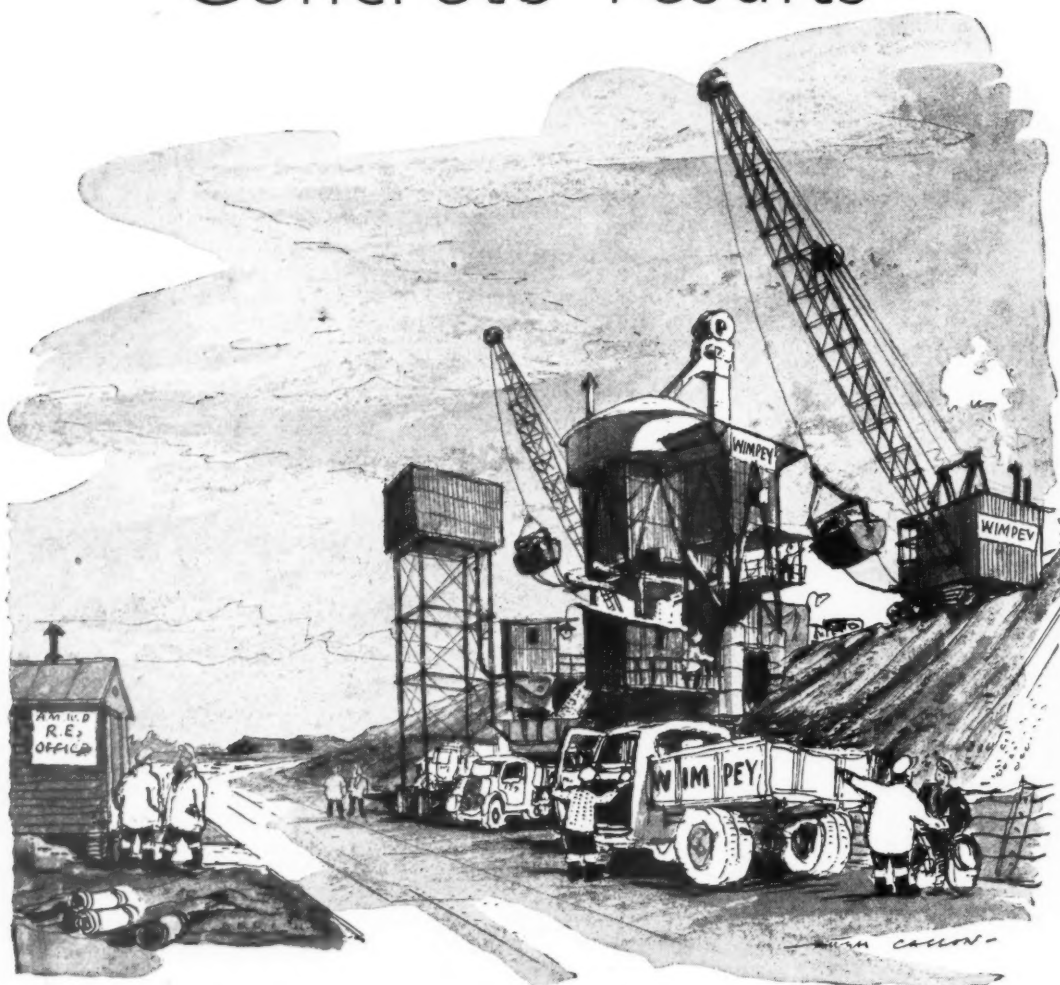
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DIARY FOR APRIL MAY AND JUNE

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

BIRMINGHAM. *British Industries Fair.* At Castle Bromwich. (Sponsor, BOT.) MAY 3-14

BRIDGEWATER. *Design for Living Exhibition.* At the Bridgewater Arts Centre. (Sponsor, ACGB.) UNTIL MAY 8

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

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

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

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

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

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

Dr. N. Pevsner. German Art of the Goethe Period. At the Courtauld Institute of Art, 20, Portman Square, W.1. (Sponsor, The Courtauld Institute.) 5.30 p.m. UNTIL MAY 4

Inn Crafts Exhibition. Interior decoration and furniture design for licensed premises. At the RBA Galleries, 64, Suffolk Street, S.W.1. (Sponsors, CIAD for Brewers' Society.) UNTIL MAY 13

Maxwell Fry. Tropical Housing and Town Planning. At the Planning Centre, 28, King Street, Covent Garden, W.C.2. (Sponsor, TCPA.) Buffet lunch, 12.45, 2s. 6d. (lecture inclusive). Lecture, 1.15-2.15, 1s. (students 6d.). APRIL 29

Darkness into Daylight Exhibition. At the Science Museum, South Kensington. (Sponsor, Science Museum.) APRIL 29-SEPTEMBER 30

RIBA Annual Reception. At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) 8.30 p.m. APRIL 30

RIBA Annual General Meeting. At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) 6 p.m. MAY 3

British Industries Fair. At Earl's Court, Olympia, and Birmingham. (Sponsor, BOT.) MAY 3-14

ABS Annual General Meeting. At the RIBA, 66, Portland Place, W.1. (Sponsor, ABS.) 12.00. MAY 4

CPRE Annual General Meeting. At the RICS, 12, Great George Street, S.W.1. (Sponsor, CPRE.) 2.30 p.m. MAY 4

Graf Wolf-Metternich. Romanesque Architecture in the Rhineland. At the Courtauld Institute, 20, Portman Square, W.1. (Sponsor, Courtauld Institute.) 3 p.m. MAY 4

C. E. Carter. The Organization of the Building Industry. At County Hall, S.E.1. (Sponsor, LCC Staff Branch of ABT.) 5.45 p.m. MAY 4

Frederick Gibberd. The Master Plan for Harlow. At the Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.) 6.15 p.m. MAY 5

Thomas Sharp. Oxford Replanned. At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) Buffet lunch, 12.45 p.m.-1.15 p.m., 2s. 6d. Talk 1.15 p.m.-2.15 p.m. 6d. MAY 11

J. Summerson. Church Building in Victorian London. At the Courtauld Institute of Art, 20, Portman Square, W.1. (Sponsor, The Courtauld Institute.) 5.30 p.m. MAY 11

RSI London Sessional Meeting. A. Leslie Longworth. *Present Standards and Practice in the Field of Ventilation.* At the RSI, 90, Buckingham Palace Road, S.W.1. (Sponsor, RSI.) 2.30 p.m. MAY 12

Cosmo Clarke. Craftsmanship in the Countryside. At the RSA, John Adam Street, Adelphi, W.C.2. (Sponsor, RSA.) 2.30 p.m. MAY 12

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

MAIDSTONE. *J. C. Browne. Paint.* At the Maidstone Technical Institute, Tonbridge Road, Maidstone. (Sponsor, S.E. Society of Architects, Maidstone Group.) 7 p.m. APRIL 29

MANCHESTER. *Institute of Welding Spring Meeting.* At Manchester. (Sponsor, Institute of Welding.) UNTIL APRIL 30

PLYMOUTH. *Newer Heat Exhibition.* At Barton's Motor Car Showrooms, Mutley Plain, Plymouth. (Sponsor, CUIC.) UNTIL MAY 1

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

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

NEWS

THURSDAY, April 29, 1948
No. 2777 VOL. 107

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

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

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

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

Representatives of local authorities from seven counties met in the Guildhall at Cambridge on Friday, April 23 for the annual REGIONAL HOUSING AND TOWN PLANNING CONFERENCE.

The morning session was devoted to Housing subjects, with Ald. Dr. Wood (Chairman of the Borough Housing Committee) presiding. Among matters for consideration were the general housing situation in England and Wales; the administration of the Housing (Financial and Miscellaneous Provisions) Act, 1946; the relating of the housing programme to family needs; the design, construction and equipment of dwellings; reconditioning in rural areas; the provision of communal facilities in blocks of flats and in densely populated areas. At the afternoon session Town and Country Planning subjects were under review, with Councillor W. G. James (Chairman of the Public Works and Town Planning Committee) in the chair. The group of subjects included the administration of the Town and Country Planning Act, 1947; the degree of delegation of powers to country district councils; the redevelopment of centres of cities; new towns, and the dispersal of population and industry.

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THE LOCAL TRADITION. [From *Local Style in English Architecture*, by T. D. Atkinson (B. T. Batsford Ltd.).] The great periods of local style were the fourteenth and fifteenth centuries in church architecture and the sixteenth and first half of the seventeenth in domestic. In some respects it is visible from the first, but generally speaking there is fair uniformity so far as a locality is concerned in early times. There was indeed not much scope for variety; the general design was bound by a strong tradition. It was only when forms became more elaborate that variety was possible. Great quantities of stone were then required for traceried window, parapet and pinnacle, so that economy in masonry was necessary where stone could not be got locally; where it was cheap it led to the development of masonry forms, development taking slightly different directions in different localities. Most potent was the general loosening in the grip of tradition, with the advance of culture and that activity of mind which marks the thirteenth and fourteenth centuries. To these may be added the increase in the manufacture of cloth, so that one district outstripped another in wealth and could build larger and handsomer churches. In the later Middle Ages probably no building was quite unrelated to one or more others.

★

Mr. R. J. Gardner Medwin, chief architect and planning officer of the Department of Health for Scotland, has pointed out that final approval of the BRUCE PLAN FOR GLASGOW will depend on regional considerations.

Mr. Medwin was addressing a group of town and country planning specialists from Europe and the Commonwealth who were in Scotland at the invitation of the Department and the British Council. He pointed out that one of the major problems at the moment is how to relate the Corporation's ideas to the Clyde Valley Plan. Glasgow, he continued, was one of the most congested and one of the worst-housed areas in Britain. Two-thirds of the population lived in tenements, many of them four or five storeys high and in an appalling state. The Corporation had been very energetic in providing housing, but most of the work was being done in the suburban areas and very little in the centre. The density of the population was staggering. The Abercrombie Plan proposed the dispersal of 300,000 people, some to be accommodated in four new towns, some to go to existing small towns round about, and some not to be provided for at all. Apparently it was assumed that they would drift over to the East of Scotland. The first of these new towns was about to be established at East Kilbride, with provision for 40,000

people. "Glasgow Corporation do not agree with this solution," Mr. Medwin said. "They have very definite ideas about rehousing their population, and hold that much of this overspill is not needed. The Bruce Plan, to which they are working, is a very bold engineering solution, one of the features of which is that it proposes to remove two of the railway stations which cause congestion in the centre of the city. This would permit redevelopment in the central area. The question is whether in any measurable time we can move these stations. If so, there will be a wonderful opportunity of three-dimensional planning. You will find, however, that the architectural solution has not yet been studied."

A Memorial to the officers and men of the HOUSEHOLD BRIGADE who fell in the war will be constructed when the Guards' Chapel at Wellington Barracks is rebuilt.

The memorial will be in the form of a cloister and memorial entrance hall leading from Birdcage Walk to the west door of the chapel. In this cloister and hall there will be seven bays, and in each there will be a book of remembrance listing the 5,214 names of the officers and men of the two regiments of Household Cavalry and the five regiments of foot guards who were killed.

The Minister of Works has stated that it has become necessary to find an alternative site for the STATUE OF GENERAL GORDON, which was formerly between the fountains of Trafalgar Square.

This is the result of progress in the work on the memorial to Admiral of the Fleet Lord Jellicoe and Lord Beatty, and on other improvements now being carried out in Trafalgar Square. Careful consideration has disclosed no alternative site in London or elsewhere to compare with that offered by the Commandant of the Royal Military Academy at Sandhurst, just inside the entrance gates, which the academy intends to remodel when the opportunity offers. In this position the statue, against an attractive background of tall trees, will be visible to users of the main road passing the gates, and Gordon's memory will be kept alive among future generations of Army officers. During the war the statue was moved from its pedestal for safe keeping to Mentmore, Hertfordshire, where space for it was made available by Lord Rosebery. It has since been brought to London and cleaned and will be re-erected at Sandhurst during the summer. The statue is the work of Sir William Hamo Thornycroft, and was erected by public subscription in 1888.



These temporary shops at Canterbury, to replace those destroyed during the war, have been laid out on the bombed area between St. George's Place and Burgate Street, bounded to the north by Butchery Lane. They have been designed by Mr. Hugh Wilson, the Canterbury City Architect, and the contractor was G. H. Deane of Canterbury. The materials used were coke breeze, with concrete uprights, and corrugated asbestos for the roofs. Despite their temporary nature these shops have a neatness which may well be emulated when the permanent shopping centre is erected, and it is notable that the lettering on the façades has been standardised. This scheme may be compared with the temporary shopping centre at Nijmegen, which was illustrated in the JOURNAL for March 11.



Photo Album: Rococo at Wisbech

The full frivolity of Continental rococo rarely penetrated to this country, because, although the rococo was an international style, its manifestations in England were modified by traditional English reticence. Above is an exception to this rule: a fireplace at Bank House, Wisbech, which was recently bequeathed to the National Trust by the Hon.

Alexandrina Peckover, whose death took place last week. Built in 1722, Bank House has a Palladian façade, and decorations of great elegance and richness believed to be by French artists imported by Sir Robert Walpole to decorate Houghton Hall. The photograph is by John Piper.

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The AMERICAN INSTITUTE OF ARCHITECTS have chosen their representatives at the First Congress of the International Union of Architects to be held in Lausanne from June 28 to July 1.

The AIA representatives are Mr. Ralph Walker and Mr. Julian Clarence Levi, F/F AIA. Mr. Walker is a member of the New York firm of Voorhees, Walker, Foley and Smith, and a graduate of the Massachusetts Institute of Technology. Mr. Levi is a member of the New York firm of Taylor and Levi, and graduated from Columbia University and the Ecole Des Beaux Arts. The selection was announced yesterday by Mr. Douglas W. Orr, President of the AIA. (See the Journal for March 18.)

★★

The SUBSIDY FOR HOUSES completed during the year ending June 30, 1949, will remain at the same level as at present.

Mr. Arthur Woodburn, the Secretary of State for Scotland, told this to a deputation representing the Convention of Royal Burghs, the Association Counties and Cities, and the Association of County Councils at a recent meeting in St. Andrew's House, Edinburgh. The decision, Mr. Woodburn said, had been made after close scrutiny by the Government of the housing situation. Because of the economic situation the pruning of national expenditure was necessary, and the Chancellor had taken drastic steps to balance the nation's finances. It had been decided, however, that there should be no cut in the housing subsidy. Recalling that housing authorities had been told that when the present subsidies were fixed they were to be regarded as peak subsidies, Mr. Woodburn said that he recognized there had been increases in building costs and that the rate of interest on housing loans had been increased to 3 per cent. He pointed out, however, that under the equalization Grant arrangements local authorities housing accounts would benefit to the extent of an average of a decrease of 1s. in the £ of owners' rates, which would help in many cases to balance housing accounts. This grant would be equivalent to about £300,000 on local authority houses in Scotland and would meet the deficit on approximately 45,000 houses, which was more than would be completed in next year's programme. The feeling of the deputation was expressed that if the present subsidy was the maximum, it would be useful for future guidance if the financial officers of the local authorities and the Department of Health could meet to agree on the basis on which subsidy calculations should be made. This was agreed to. It was stated that heavy deficits arose from Purchase Tax on housing fittings, and Mr. Woodburn undertook on submission of figures to have the matter investigated.

MOW recently gave an assurance that EXTRA SUPPLIES OF CEMENT would be sent to the North-east immediately.

This followed warnings by private builders of the danger of widespread holdups on new housing estates and in factory building. Mr. H. W. Wake, director of the Northern Counties Federation of Building Trades Employers, in making the announcement, said: "Some builders are at a standstill. If there are any further delays, remedial measures will be too late. As it is, I would not like to estimate the cost and delay which have already occurred."

PLANNING PERSONNEL

IN the leading article on April 1 reference was made to the complexity of the responsibilities of the new planning authorities under the Town and Country Planning Act of 1947. The recent circular No. 34, issued by the MOTCP to planning authorities, has made a number of suggestions which will bring relief to many of them. It was, of course, obvious that one of the major problems will be to find officers and staffs with ability and imagination. The field of available personnel is at present very limited and though this enables authorities to inform themselves accurately of the abilities of candidates for appointment it also means that they may have in some cases to accept officials whom they know to be inadequately qualified.

In the circular referred to, MOTCP suggest that it is unlikely that any significant building work will be carried out under any planning scheme for some time, and therefore authorities should not attempt to build up their teams with excessive speed. It is also suggested that the policy of employing independent consultants to prepare planning schemes meets with the approval of the Ministry and has in fact been largely adopted by the Ministry itself in the preparation of Master Plans for the New Towns. That such a policy is wise few architects can doubt, and the services of Gibberd, Jellicoe and Lubetkin could have been obtained by no other arrangement.

That the Ministry itself has established this precedent, and has resisted the natural temptation to retain these functions in its own hands is much to its credit, and many planning authorities will do well to follow its example. However able and imaginative the development plan, in any county that means to take planning seriously the pattern of its organization will have to undergo some change. The Planning Committee, for example, will have to be a key committee and not, as hitherto, one with narrow administrative functions. Both the chairman of the Planning Committee and the Clerk to the Council will have to give a good deal of their time to watching the progress of planning and giving it drive and continuity.

It is already generally accepted that the planning organization must be a separate department, and that the Chief Planning Officer should be on a level with other senior officers of the Council. There remains, however, a need to examine the relations between the Council and its planning department and the consultant where one is appointed. In the past there has been a widespread idea that for a greater or lesser fee an architect or planner of distinction may allow his brains to be picked and his imagination to be tapped, and that the Council's officers can then get to work—and very soon render his contribution unrecognizable. It must be admitted that there are eminent consultants who have shown great willingness to have their brains picked, and then retire gracefully, displaying little or no interest in what happens next. If these

attitudes remain, planning will fail to achieve its real possibilities. The consultant must be allowed to develop his proposals and play a decisive role in the carrying out of his plan. In return he must not regard his responsibilities at an end when he has delivered a master plan and pocketed the fee. During the next few weeks those planning authorities that have not already done so will be deciding whether to appoint a consultant or choose one of a limited number of possible candidates as their Planning Officer, and during the next five years a method of working will be gradually developed by a process of trial and error. The results that will emerge at the end of this period will be of vital national importance.



The Architects' Journal

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

Phone: Whitehall 0611

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

FISKE-LEGER-BREUER-MOCK

The past week London has had even more than its usual quota of distinguished foreigners, but all on flying visits—in more senses than one: from Denmark, architect Kay Fiske, whom readers will remember as designer of the "Crown Prince Frederick," taken all round the best-designed passenger-ship afloat; from Paris, painter Fernand Léger, who stayed only long enough to attend a British Council lunch—no suites at Claridges since Victoria Ocampo!—to turn up at a party, and to show a coloured film about his own work. It was indeed a case of Léger yesterday, Léger to-day but never Léger demain.

On his way back to America was Marcel Breuer, after paying his first visit to Europe since he crossed the Atlantic 11 years ago; also over from America was Rudolf Mock, lately appointed architectural chief to TVA. Breuer will be returning to occupy a house in New England that he has

recently built for himself (shortly to be illustrated, I believe, in *The Architectural Review*). Léger, too, has just finished a major work—his series of exterior mosaics for a church in a small town in Haute-Savoie—the French Northampton, I suppose we must now call it—that has also been adorned with hangings by Braque and stained-glass windows by Rouault.

PLAIN WORDS

The dailies have already skimmed the cream of the quotations in Sir Ernest Gower's *Plain Words*,* the most amusing and at the same time the most salutary two bobsworth I've seen for a long time. Although written primarily for the Civil Servant, most of us will still be able to find some personal fault delicately mounted and pinned for our inspection. Wondering what we can do about the English used in our own profession, I've come to the conclusion that though specifications are notoriously long-winded, they might well be a lot worse. Sir Ernest admits that the author of a would-be authoritative text must "try to imagine every possible combination of circumstance . . . and every conceivable misinterpretation," and must therefore avoid all graces and not be afraid of repetitions. The real stupidity of so many specifications is that they contain clauses which are so out of date that nobody ever takes any notice of them.

For anyone who is tired of filling in forms there is one encouraging comment, though, as Sir Ernest admits, it is really outside the scope of the book. "It does not seem to me to be reasonable that anyone who asks for something to which he is legally entitled should be required to do more than to

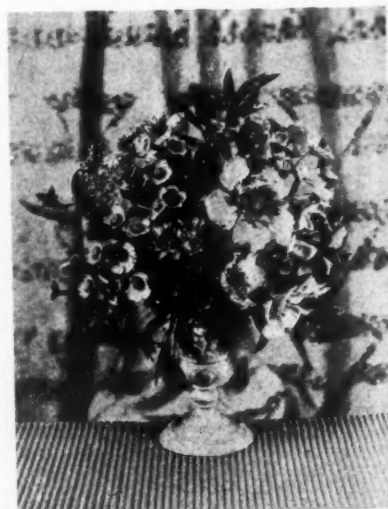
* HMSO 2s.

provide once, and once only, the information necessary to establish his right. To demand that forms shall be furnished in triplicate, or that an applicant, having written his name, address and identity number in Section A, should write them again in Section B, is to force a member of the public to act as unpaid copyist for someone whom he pays to do that sort of thing for him."

IT'S THERE . . . IN BLACK AND GRAY

The Atlantic traffic of designers (see this column 4/3/48) is apparently not going to be all one way. Mrs. Gaby Schreiber is off to the USA to act as one of the judges in a New York industrial design competition, and DRU has just opened a New York office, which is to be run by Allan McNab, one-time Design Director to Norman Bel Geddes and an ex-Art Editor of *Life*. All designs for America will be produced over here by DRU's board of designers, headed by Misha Black and Milner Gray, who are at present busy designing such varied articles as laundry machinery and packages for knitting needles.

That there is still plenty of work for designers upon both sides of the Atlantic is shown by news of two products which seem to me to be suitable candidates for our Chucklecraft section. From America come photographs of a "Bachelor's Beer Mug Set"—six



A vase of flowers in metal by Kenneth Mosley, from the Inn Crafts Exhibition (see page 390). Astragal will comment on the exhibition next week.

china mugs, the handles of each of which depict the six stages of a striptease act. (Last mug for the favoured guest has a handle composed of a "nude" diving head first into the beer.) And a kindly stranger from Sanderstead tells me of the latest thing in butterflies, which, surprisingly enough, has an electric fire element running down its body, wire antennae (not part of the heating element), and spring-hinged aluminium wings, cross-hatched in a chequer pattern and anodized pink. The whole insect is two foot six high, has a wing-span of about a yard and sits on a painted yule log. After this I am faintly surprised that the hinged wings aren't motor driven "to provide a cooling draught in the summer months during which the fire will not be in use." It's nice to think that buyers will be paying 100 per cent. purchase tax and be mugs (if not bachelor's mugs) for that reason alone.

... AND IN SILVER BLUE

Still on the subject of British design, what is one to think of the Silver Wedding postage stamps, one of which I illustrate? They will go all over the world and be stuck in albums to be examined by posterity. They will be stuck in the same albums as the famous "Penny Black" series issued 108 years ago, which are among the best stamps ever designed—and are British.

The "Penny Black" was designed as an engraving, and the head was stylized to suit this technique; now we have a facsimile reproduction of a realistic photograph, set in a realistic photo-frame. It may be a triumph as a demonstration of what photogravure reproduction can do, but can this be called an appropriate technique for what is essentially a printed label? And has it either the dignity or the distinction of the older stamps? With all loyalty to the occasion the stamps celebrate, I would give my answer to these questions as "No."

ART AND TECHNICS

The new publishing venture called "Art and Technics" has followed its series of books on English black-and-white draughtsmen with a series on English architectural epochs. The general editor is Hugh Casson and



One of two Royal Silver Wedding stamps, on sale this week. It is silver blue in colour and measures $1\frac{1}{4}$ ins. across. Designed by Joan Hassall, it was printed by Harrison's (the AJ's printers). See Astragal's note.

the first two volumes have just appeared: on Regency architecture by Paul Reilly and on Victorian by Casson himself. Other titles promised are Tudor Architecture by John Harvey and Modern by Neville Conder, as well as a series of architectural biographies.

They are slim volumes (a little on the dear side at 10s. 6d.) but produced with all the taste and discretion one would expect from the proprietors of *Alphabet and Image*. It is bad luck that the Regency volume, which does not claim to be more than a brief introduction to a series of photographs, should follow so closely after Donald Pilcher's *The Regency Style*,* a remarkably well-informed, analytical study of the same epoch, but the Victorian volume, on the other hand, has things to say as well as information to give. Everyone knows what to think of the front at Brighton, but it is not so easy to evaluate, say, Halifax Town Hall or the Natural History Museum at South Kensington. Hugh Casson's introductory essay should do a lot to clear the air which is still laden with the dust of the Battle of the Styles. He discusses his shrewdly selected illustrations with an objectivity rare in writers about the nineteenth century, and pilots the reader adroitly through a period which was as full of incident, humour and conflict as was its architecture.

ASTRAGAL.

*Batsford. Price 15s.

LETTERS

G. Metcalf

Building for Agriculture

SIR.—As one of those weird, hybrid products of planned society, referred to by Gerhard Rosenberg: neither fish, flesh, nor good red herring—a building and planning advisory officer of the NAAS—I enjoyed reading the text of the addresses at the AA. May I comment, please?

As a working farmer (25 years architecture and surveying; concurrently, 15 years farming) I am interested, more than anything, in the underlying assumption of both Dr. Stamp's and Jacqueline Tyrwhitt's addresses, viz., the relating of most aspects of rural planning to land productivity. The acceptance as a restrictive limit to the conception of rural planning, of the present degree of heart in any particular area of land. This, I am sure, is the wrong approach.

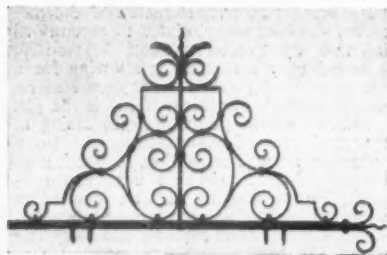
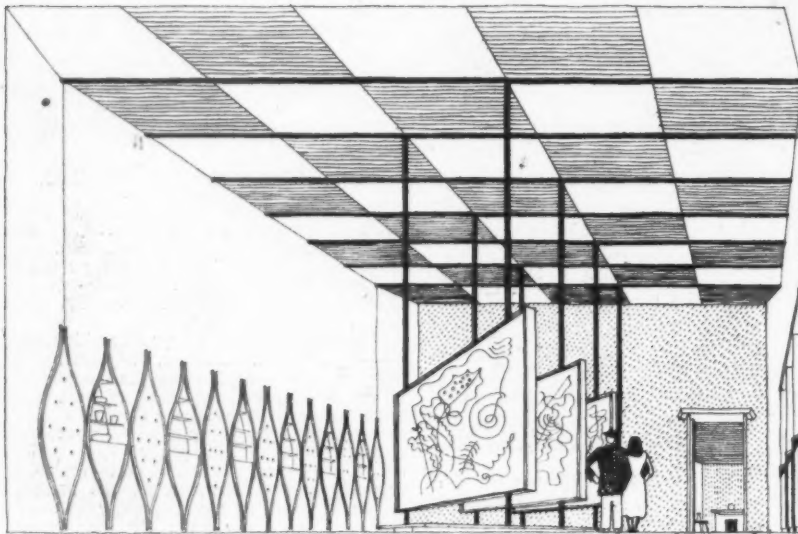
It is said there are three kinds of lies—lies, damned lies, and statistics. Nevertheless the statistics recapitulated as recently as March 4 by Professor Scott Watson in his broadcast are shattering; allowing for a wide margin of possible error they still remain profoundly shocking. What is the gist of them? World population increasing at an annual rate of many millions. Food production acreage remaining, to put it conservatively, static. Britain's crippled purchasing power bringing us well forward in the perspective of food production problems.

Britain's problem is nothing less than immense. She has to feed—not merely to try and feed, but actually do the job, if she is to survive—40 odd million souls from the same overall acreage as, 150 years ago, was used to support a population of 7 or 8 million. Half measures will only hinder this process; academic and/or arbitrary standards are inadequate in approaching such a colossal task.

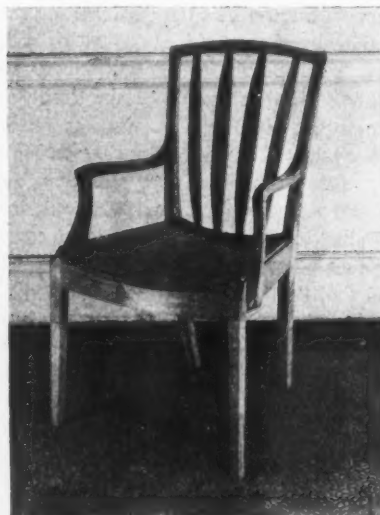
The proportion of self support which this country achieves will be related, not to capitalisation of the better land, but to the all-over improvement of cultivatable ground wherever it lies, and regardless of its present population-carrying abilities. (By "improvement" I refer not only to the land itself but to all the ancillaries of the farming industry). Let us take a brief factual illustration of my criticism and the point arising from it.

The area of this county—Radnorshire—is 500 square miles, and the total population is 20,000, which gives about 40 to the square mile. The war-time ploughland increase was 144 per cent. And yet Radnorshire was top of the list of English and Welsh counties in respect of the war-time increase of farm livestock. Qualitatively, too, the improvement was proportionate, as indicated by the grading-out weights of fat stock. Some of my land here, even in the bad hay season of 1946, had to be mowed three times; and it had by no means been understocked. But on the premises of Dr. Stamp and Jacqueline Tyrwhitt, Radnorshire would, I fear, be overlooked by the planners. The main reason for its extraordinary war-time performance lay not in its arbitrary population-carrying capacity but rather in the improvement by careful husbandry of all accessible land. Space will not permit me to more than mention some other outstanding achievements in thinly-populated and very remote areas: parts of the Black Mountains bordering Herefords; Brecon and Monmouth; the now famous Montgomeryshire highlands grassland improvement programme—developed to an amazing degree in an area where, at a guess,

INN CRAFTS EXHIBITION



This exhibition, which opened last Tuesday, at the RBA Galleries, Suffolk Street, London, and continues till May 13, represents a combined effort by British brewers to give help and encouragement to the traditional hand crafts of this country. The Brewers Society have paid for the cost of the exhibition, and have offered £1,000 in prizes. The exhibition was organised by CIAD. Top: A sketch of the main gallery, designed by Robert Goodden and R. D. Russell. Left: wrought and welded iron bracket for swinging sign, made by A. E. Sex, designed by M. C. Farrar Bell. Lower left: Inn sign, painted by L. J. Linton. Bottom left: wine glasses, water jug and tumbler, made by C. D. Stanier, designed and diamond point engraved by E. M. Dinkel. This glass is a prototype for mass production for Trust Houses, Ltd. Bottom right: elbow chair in cherry and ash, designed and made by David W. Pye.



the population is not more than three to the square mile.

The rural planners would do well to study the work and writings of Professor Sir George Stapledon in this connection of land improvement. I am certain that if they do not revise their basic premises, there will be a very real danger of neglected—but potentially highly productive—areas suffering still further neglect, with the ultimate worsening of the home food production situation.

Writing in the heart of an area of eleven counties devoted wholly to agriculture—and what is apparently to be accepted now as first cousin to farming, viz., military training!—I disagree with both the order and the text of Jacqueline Tyrwhitt's reasons for the drift from the land. First, I would place housing. Second, working conditions. Third, wages. Whatever is overlooked, I would say let us have decent dwellings for farm workers, and let them be as close as possible to where the work is. Regarding amenities, my observations during many years' residence and work in the more remote areas of England and Wales lead me to the conviction that, taking a long view, nothing could be more disastrous than to invest the countryside with the "amenities" of town and urban life. The men and women who really will DO this job of food production want first: Decent dwellings; secondly, happy working conditions, and lastly, reasonable wages.

In passing, may I ask Jacqueline Tyrwhitt WHY it "does not make sense" to try and get rural crafts back to the village? Incidentally, I do not know many villages in Wales and the border counties where essential rural crafts are not still pursued. Heaven preserve "this blessed plot" from the danger—and the sin—of over-urbanization; such it was which precluded the fall of Rome.

Gerhard Rosenberg was, I think, unnecessarily unkind. Some of the despised building advisory officers in this Service have already spent a quarter of a century in planning, almost exclusively, for the needs of agriculture; and it is just possible that in so doing, they have acquired a "planning mind."

Of his address in general, one gains the impression that he is thinking of the replanning of farms. Would that such drastic surgery could be widely instituted. I feel, however, that it will be found there is much more work in the "earth to water-closet" conversion category. Farming is still thought of in terms of emergency stop-gap production. "Export or die" is still the theme song of Britain's economy. Conditions have not yet become so bad that agriculture is considered as a staple, basic industry.

Particularising, I would criticise Rosenberg's ideas about the housing of farm implements. Wherever possible these should be housed in buildings which can be totally enclosed, especially in areas west of the Pennines. The corrosive atmosphere on hill, marginal and coastal farms has to be experienced to be believed. The open-sided implement shed just will not do, now that the tools for the job are so much more scientific, sensitive and expensive. Secondly, barns may be sited, as he suggests, near to a pond or other source of water, providing such a site fits into the labour traffic lines of the holding. This consideration is of nothing less than primary importance; other and ancillary requirements should be harnessed to this main theme. In my work on the farms of Wales and the borders, one is again and again impressed with the crippling overheads accruing from the lack of coordination of related activities. Again, a farm must be worked oneself to fully understand what this means. The labour position at present, and as it will continue for many years, emphasizes the importance of the fundamental question in planning. In my humble opinion everything should be subordinated to it.

Llandrindod Wells

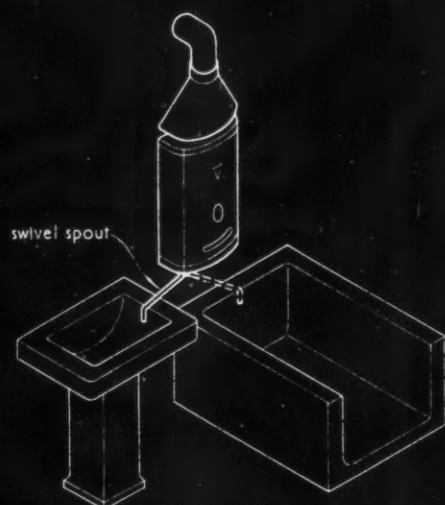
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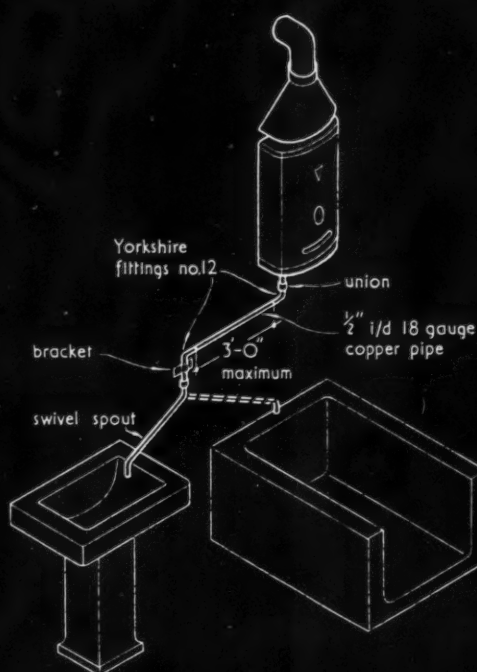
WATER HEATING UNITS GAS

32.C22

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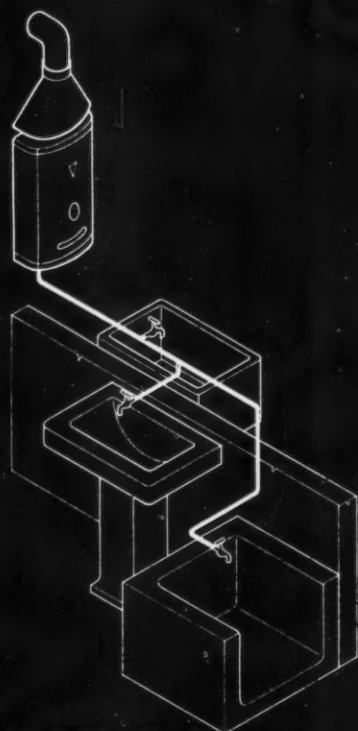
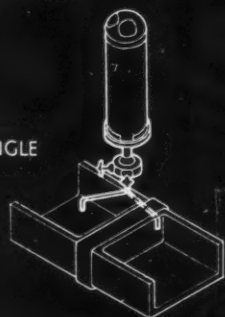


TYPE SG.32/1 LARGE SINGLE POINT HEATER.
swivel spout serving bath and basin

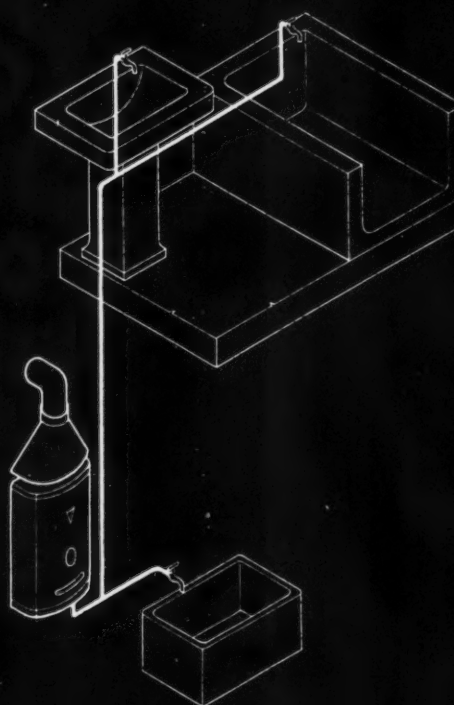


TYPE SG.32/1 LARGE SINGLE POINT HEATER.
extended swivel spout serving bath and basin

TYPE R.12/4 SMALL SINGLE
POINT HEATER.
swivel spout
serving two sinks



TYPE NEA.32/6 MULTI-POINT HEATER.
typical flat installation



TYPE NEA.32/6 MULTI-POINT HEATER.
typical two-storey house installation

32.C22 ASCOT INSTANTANEOUS GAS WATER HEATERS: SELECTION OF HEATERS

This Sheet is intended as a guide to the selection of suitable Ascot instantaneous gas water heaters for specific purposes. The diagrams illustrate typical heater installations; the types shown are described in detail on Sheets 32.C20 and 32.C21.

Ascot instantaneous gas water heaters are designed to heat water to a maximum of 100° F. above supply temperature except type RS.52/1 which will provide boiling water. The hot water service is instantaneous and unlimited and, irrespective of variations in demand, a high overall operating efficiency is maintained. Gas is only consumed when hot water is required and standby losses are reduced to a small pilot flame.

Single Point Heaters

These are of the open outlet type and must on no account be connected to any restriction in the form of taps, piping or fittings.

To facilitate hot water supply to two adjacent fittings, single point heaters are fitted with swivel spouts which are available in different lengths.

Type SG.32/1: Large single point bath heater.

Output: 1.3 gal./min. raised through 100° F.,
or 3.25 gal./min. raised through 40° F.

The top left-hand diagram shows a typical installation serving bath and adjacent basin; the top right-hand diagram shows an alternative arrangement using an extended swivel spout, the fittings for which are available from the manufacturers. The heater can also be installed to serve two adjacent sinks or a large sink in laboratory, workshop, etc.

Type R.12/4: Small sink heater.

Output: 0.5 gal./min. raised through 100° F.,
or 1.25 gal./min. raised through 40° F.

The heater is suitable for a kitchen sink, cloakroom basin or similar fitting, the centre left-hand diagram showing an installation serving two adjacent sinks.

Type RS.52/1: Small sink type boiling water heater.

Output: 2½-3 pints/min. of boiling water,
or 0.5 gal./min. raised through 104° F.,
or 1.3 gal./min. raised through 40° F.

The heater is designed for domestic use and is not suitable for continuous use in cafes or restaurants or where the water pressure exceeds 120 lb./sq. in.

Multi-point Heaters

These are of pressure proof design and can supply up to three taps connected to the heater outlet. They should be installed close to the most frequently used draw-off tap (normally at the kitchen sink) with all draw-off runs as short as possible to ensure no wastage of gas and an immediate hot water supply.

Type NEA.32/6: Multi-point heater.

Output: 1.3 gal./min. raised through 100° F.,
or 3.25 gal./min. raised through 40° F.

The lower diagrams show typical flat and two-storey house installations. The heater will supply hot water to three cloakroom basins in schools, offices, etc., and also two showers or a 'Quickspray' Wash Fountain. (See subsequent Sheets in this series.)

Factors Governing Choice

Number of points to be served: Single point heaters whether large or small can only serve one sink, bath or basin except where two points can be reached by a swivel spout outlet. A multi-point or several single

point heaters should be used for supply to distant draw-off points.

Rate of flow: The supply of hot water from an instantaneous heater cannot be exhausted, but the speed of delivery is limited by the size of the heater. A small heater is more efficient for limited intermittent demands than a large one and the heater, therefore, should not be larger than necessary to meet the maximum demand.

A comfortable bath temperature is 105° F., but the water should enter the bath at 120° F. to make allowance for heat losses. The times taken in supplying bath water requirements at this temperature, using heaters type NEA.32/6 or SG.32/1 are given below.

Size of bath	Hot water required	Approximate time taken.
6 ft.	30 gal.	15 min.
5 ft. 6 in.	20 gal.	10 min.
5 ft.	15 gal.	7½ min.

Distance between points to be served: Many Water Authorities restrict the length of hot water draw-off piping from a multi-point heater to 25 ft. in order to avoid wastage of water and the respective bye-laws should be consulted in this connection. In addition, long draw-off runs reduce the overall operating efficiency of the installation and runs approximating the maximum should be suitably lagged. Where the draw-off run from a multi-point heater would be in excess of the permissible maximum, a bath heater, type SG.32/1, should be used to serve the bath and adjacent basin and a sink heater, type R.12/4, or boiling water heater type RS.52/1, used for kitchen service. *Ventilation*: Adequate ventilation must be provided in any room in which an instantaneous gas water heater is installed. (See subsequent Sheets in this series.)

Flue

In the selection of heaters type SG.32/1 and NEA.32/6 to serve a point or points, the location of the flue (which is an essential requirement) should be considered at the initial conception of the installation. The flue installation must be efficient. (See subsequent Sheets in this series.)

Alternative Systems

Multi-point heaters are particularly suitable for connection as an ancillary to a solid fuel fired boiler installation, for summer use when the boiler supply is not required or for occasional winter use when it is not convenient to stoke the boiler. (See British Standard Code of Practice C.P. 332.201: 1947.) For full details of alternative systems, see subsequent Sheets in this series.

Compiled from information supplied by:

Ascot Gas Water Heaters, Ltd.

Head Office: 43, Park Street, London, W.1.

Telephone: Grosvenor 4491.

Works: Ascot Works, Neasden, London, N.W.10.

Telephone: Willesden 5121.

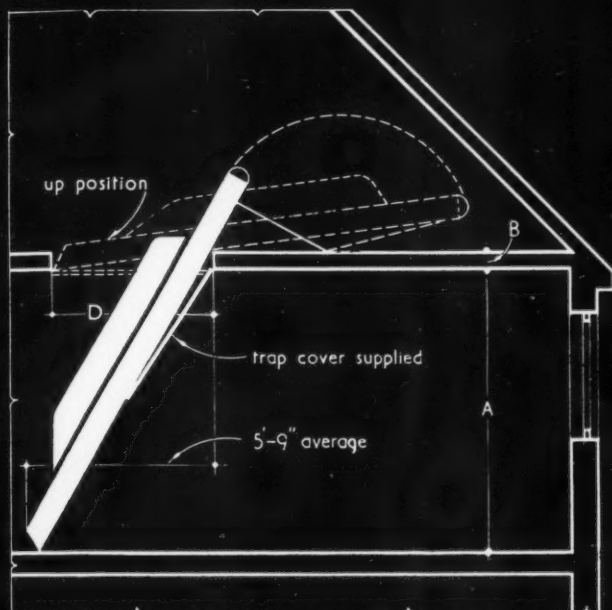
Telegrams: Gascot, Phone, London.

Branch Offices: Belfast, Birmingham, Bournemouth, Bristol, Cambridge, Glasgow and Manchester.

PRODUCTS | MISCELLANEOUS | LADDERS

26.F3

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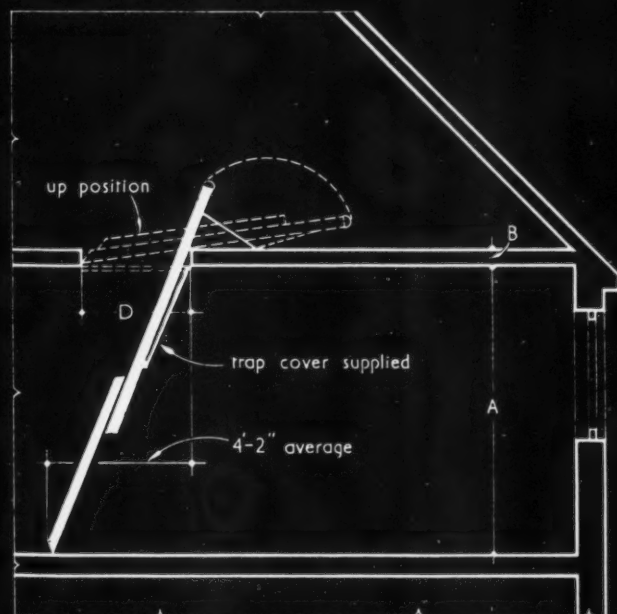


MODEL PS9 (STAIRCASE TYPE 9) SPRING BALANCED TYPE.
width of this model 1'-6½" (min. width of opening 2'-3")

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	6"	4'-7"	4'-10"
	7"	4'-7"	4'-10"
	8"	4'-8"	4'-11"
8'-3"	5"	4'-8"	4'-11"
	6"	4'-8½"	4'-11½"
	7"	4'-8½"	4'-11½"
	8"	4'-9"	5'-0"
8'-6"	5"	4'-9"	5'-0"
	6"	4'-10"	5'-1"
	7"	4'-10"	5'-1"
	8"	4'-10"	5'-1"

A	B	D	
8'-9"	5"	4'-11½"	5'-2½"
	6"	4'-11½"	5'-2½"
	7"	5'-0"	5'-3"
	8"	5'-0"	5'-3"
9'-0"	5"	5'-0"	5'-3"
	6"	5'-1"	5'-4"
	7"	5'-1"	5'-4"
	8"	5'-1"	5'-4"
9'-3"	5"	5'-1"	5'-4"
	6"	5'-3"	5'-6"
	7"	5'-3"	5'-6"
	8"	5'-3"	5'-6"

TABLES GIVING LENGTH OF TRAP OPENING REQUIRED
FOR VARYING DIMENSIONS OF A AND B.



MODEL UD2S UTILITY DIRECT SPRING TYPE.
lower section is released by catch to slide over upper section

A	B	D	
8'-0"	5"	3'-0"	2'-4"
	6"	3'-1"	2'-5"
	7"	3'-2"	2'-6"
	8"	3'-3"	2'-7"
8'-3"	5"	3'-3"	2'-7"
	6"	3'-4"	2'-8"
	7"	3'-5"	2'-9"
	8"	3'-6"	2'-10"
8'-6"	5"	3'-6"	2'-10"
	6"	3'-7"	2'-11"
	7"	3'-8"	3'-0"
	8"	3'-9"	3'-1"

A	B	D	
8'-9"	5"	3'-9"	3'-1"
	6"	3'-10"	3'-2"
	7"	3'-11"	3'-3"
	8"	4'-0"	3'-4"
9'-0"	5"	4'-0"	3'-4"
	6"	4'-1"	3'-5"
	7"	4'-2"	3'-6"
	8"	4'-3"	3'-7"
9'-3"	5"	4'-3"	3'-7"
	6"	4'-4"	3'-8"
	7"	4'-5"	3'-9"
	8"	4'-6"	3'-10"

TABLES GIVING LENGTH OF TRAP OPENING REQUIRED
FOR VARYING DIMENSIONS OF A AND B.

26.F3 LOFT LADDERS: 3. SPRING-BALANCED TYPE AND DIRECT SPRING TYPE

This Sheet is the third of a series dealing with loft ladders. The drawings give details of model PS9 (staircase type 9), single section spring-balanced type and model UD2S, double section utility direct spring type. Sheet 26.F1 describes model 2S4RS, single section spring-balanced type and model DLA4RS, double section spring-balanced type.

Sheet 26.F2 describes model 3S4RS, single section spring-balanced type and model SD4RS, double-section spring-balanced type.

Further Sheets in this series will deal with other types of loft ladders. These include patent fire-exit ladders—to give direct access either to roof or to the floor below; trellis ladders; single section or extending general purpose ladders; rigid and folding ladders and steps of various types. All types of loft ladder are purpose-made, i.e., suitable for individual positions only.

Operation

Model PS9: The ladder is closed by lifting it in the direction of its long axis. It is not necessary to swing the ladder as the radius rods automatically do this. When the foot of the ladder is just past the lower edge of the trap door a detachable rod, which is supplied, is inserted into the slot at the bottom of the door. This is pushed gently upwards and the door eased into position. The ladder is lowered by reversing the operation.

Model UD2S: The ladder is closed by sliding the lower section upwards until it engages in the locking device on the upper section. The whole is then pushed into the closed position as described above. The ladder is lowered by reversing the operation—the weight of the lower section being taken by one hand while the locking device is released.

Standard Sizes

The ladders illustrated on the face of this Sheet are constructed to conform to the following standard units:

Model PS9: Width 1 ft. 6½ in., treads 7 in., rise 8 in., inclination 60°, trap width variable—2 ft. 3 in. to 2 ft. 9 in.

Model UD2S: Width 1 ft. 4 in., treads 2 in., rise 8 in., inclination 68½°, trap width variable—1 ft. 9 in. to 2 ft. 9 in.

Construction

Ladder: The types described on this Sheet are constructed mainly of aluminium alloy and are made on the lattice principle. Other types may also be supplied in steel or timber.

At the time of publication of this Sheet a Certificate of Essentiality signed by the District Medical Officer of Health or the Borough Engineer is required before timber ladders can be supplied.

Trap cover: This is constructed with aluminium alloy panel in timber frame or it may be prepared for glazing, perspex, or flush panelling.

Balancing unit: In the case of model PS9 the unit consists of a series of helical springs in compression contained within tubes.

In the case of model UD2S helical springs in compression slide externally over tubes attached to the ladder sides.

Trap Opening

This should be provided with timber linings with 2 in. by ½ in. stops 1 in. up from the ceiling face, unless rebated. Where the trap opening exceeds 2 ft. 9 in. in width, it is advisable to form a separate side panel, framed and finished as above, hinged to the side of the trap opening and held in position by two barrel bolts. This makes it unnecessary to bring down a trap cover the full width of the opening on the back of the ladder which would obstruct the landing below when the ladder is in use. The hinged panel need be opened only to allow passage of bulky articles into the loft.

Fixing

The ladders are fixed by the makers where possible, or if not, fixing diagrams are supplied.

Finish

The aluminium alloy is left in its natural state.

Orders

The following dimensions should be sent with an order and preferably be accompanied by a dimensioned drawing giving information of adjacent struts, bearers, pipes, etc.

Floor to ceiling height below trap.

Overall thickness of ceiling.

Floor to ridge height in loft.

Length of trap opening between linings or rebated surfaces.

Width of trap opening between linings or rebated surfaces.

Unobstructed floor space available for ladder when in "up" position.

Minimum headroom over opening.

Prices

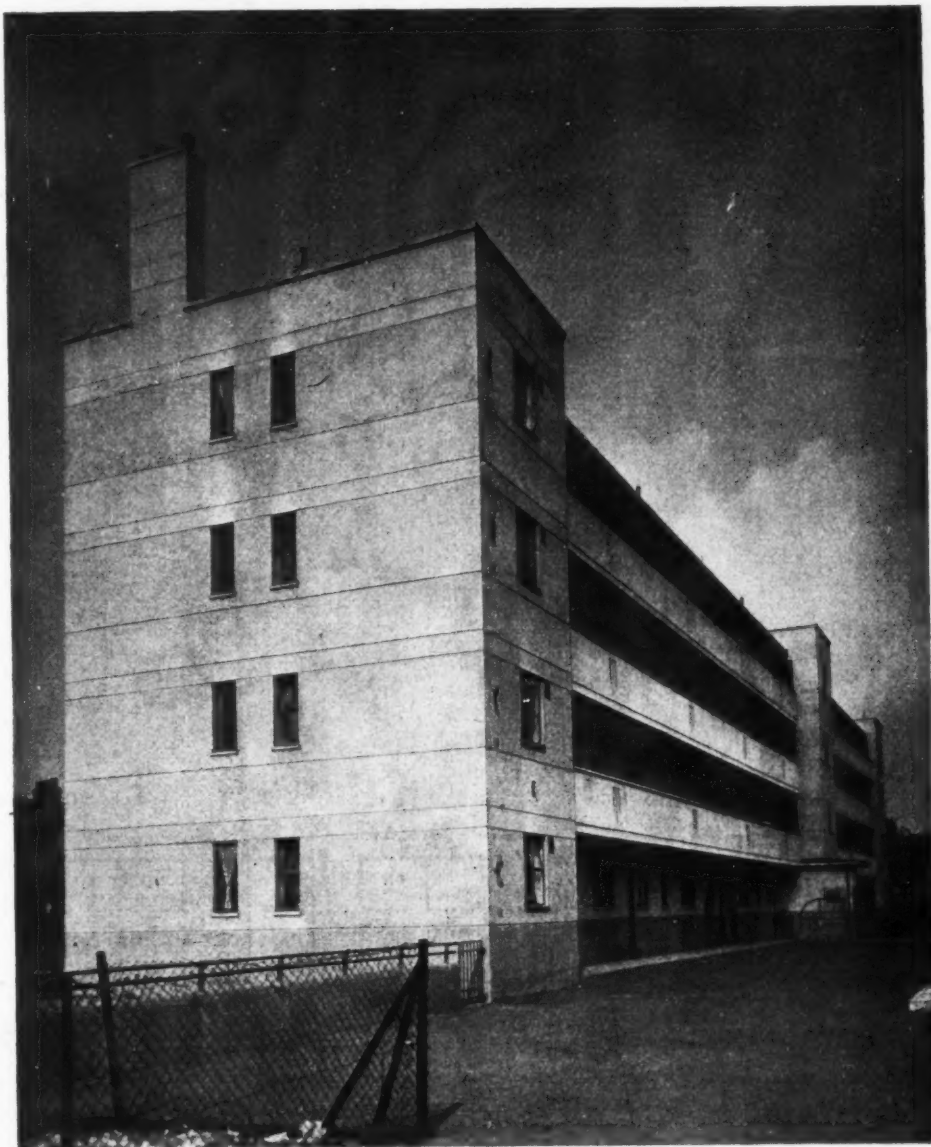
Typical installations at present cost from £13 10s. 0d. upwards, excluding fitting and fixing.

Compiled from information supplied by:

Loft Ladders Limited.

Address: Broadway Works, Bromley, Kent.
Telephone: Ravensbourne 2624.

Right, a block from the south-west; bottom, one of the six children's playrooms that adjoin the third floor roof playgrounds.



FLATS AT BETHNAL GREEN FOR THE LCC.

BY C. H. WALKER, DIRECTOR OF HOUSING

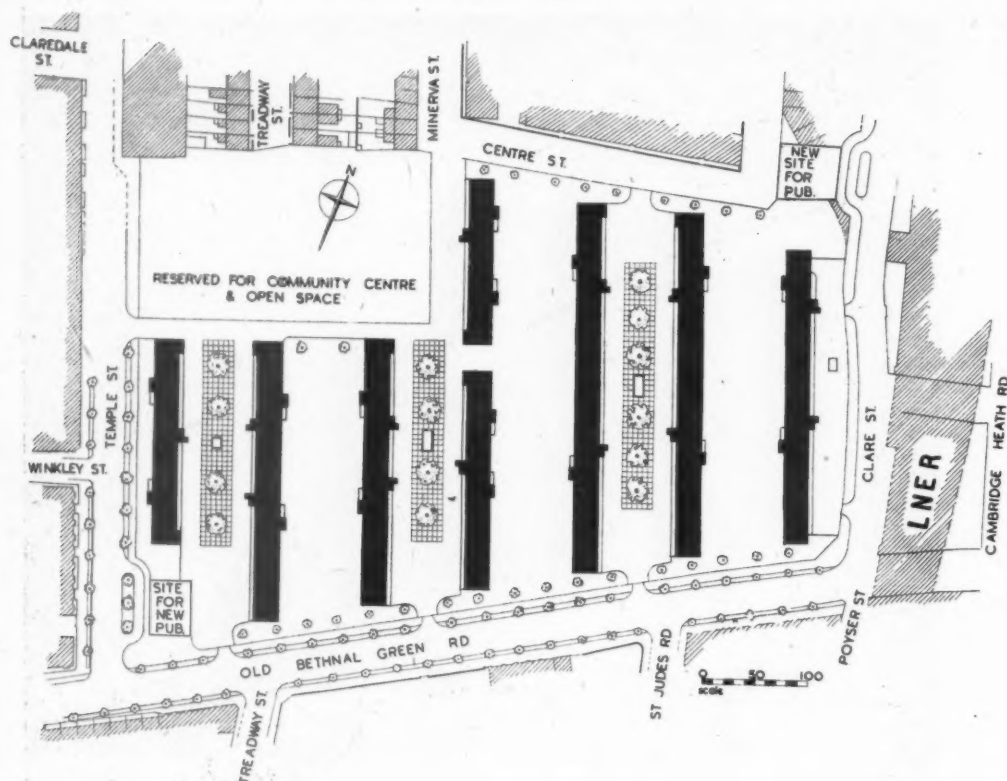


GENERAL.—This LCC housing scheme consists of 8 blocks of 4-storey flats. In 1945, the LCC decided upon the adoption, with certain improvements, of a method of construction which had been tried out before the war as an economic and quick method of erecting concrete buildings.

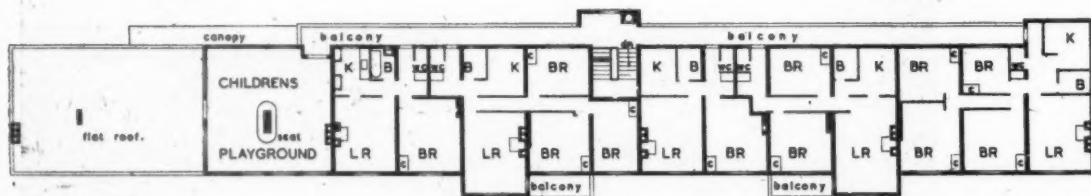
SITE.—The site is level and was previously built over and intersected by roads. The total area, including half the area of the surrounding roads, is about $7\frac{1}{2}$ acres. One acre has been reserved for community centre buildings, open

spaces and for two public houses displaced by the re-development. 253 flats are provided on the remaining 6 acres. The flats are sited on a north and south axis. They are grouped in pairs and face on to forecourts on one side and on to greens on the other. Principal rooms overlook the greens. Public access is by way of the courtyard which will be paved and planted with trees.

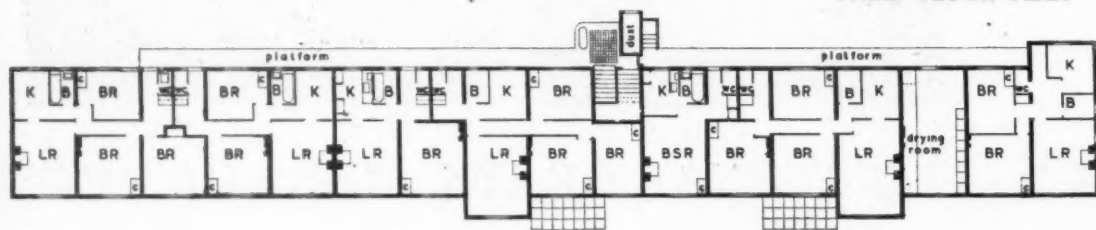
PLAN.—The flats are balcony access type, served by main staircases from the courtyards. Flat sizes vary from 1 to 5 rooms.



SITE PLAN



THIRD FLOOR PLAN



GROUND FLOOR PLAN

(Scale: $\frac{1}{4}$ " = 1'0")

Each flat is self contained with an entrance hall, kitchen, bathroom and w.c. situated on the balcony side. In the one-room flats, the bed-sitting room gives access to the kitchen. Living room areas are from 161 to 199 sq. ft.; double bedrooms from 116 to 150 sq. ft. and single bedrooms from 78 to 95 sq. ft.

CONSTRUCTION.—The concrete floors span between and are carried by transverse concrete walls without beams or columns. This simplifies form work and minimizes

the cost of internal finishes. To obtain the maximum economy from this form of construction, a certain degree of standardization is necessary and this calls for close co-operation between the architects, structural engineers and contractors. The strip foundations are designed for a ground pressure of 2 tons per sq. ft. Structural walls are 7 in. thick throughout and, in general, stresses do not exceed 150 lb. per sq. in. Ground floors consist of 4 in. over-site concrete reinforced with mesh. The suspended floors are 5½ in. thick. The

floor slab is cantilevered on one side to form access balconies. All storeys are of equal height and the concreting of each is carried out in three lifts. The height of the lifts, the fenestration and the floor levels are carefully related and the horizontal construction joints arranged to coincide with cills and heads of openings and floor levels. Contraction joints limiting the free length to 160 ft. are incorporated in the construction of the first floor level. Here the floor slabs are carried on $3 \times 3 \times \frac{1}{4}$ steel angles and copper strip inserted on the



Right, a block from the entrance of the forecourt; bottom, a sketch of the completed scheme.

external walls. One inch wood-wool slabs are used as permanent formwork on the inner face of external walls and both sides of transverse walls. Partition walls are 2 in. thick brick/sand, concrete blocks, made from crushed war debris.

EXTERNAL TREATMENT.—Two wall finishes are used, a flush plinth with exposed aggregate up to ground floor cill level. Above the plinth the buildings are faced with a special white concrete of Portland stone, white silica sand and white cement. An incised V

emphasizes the horizontal construction joints.

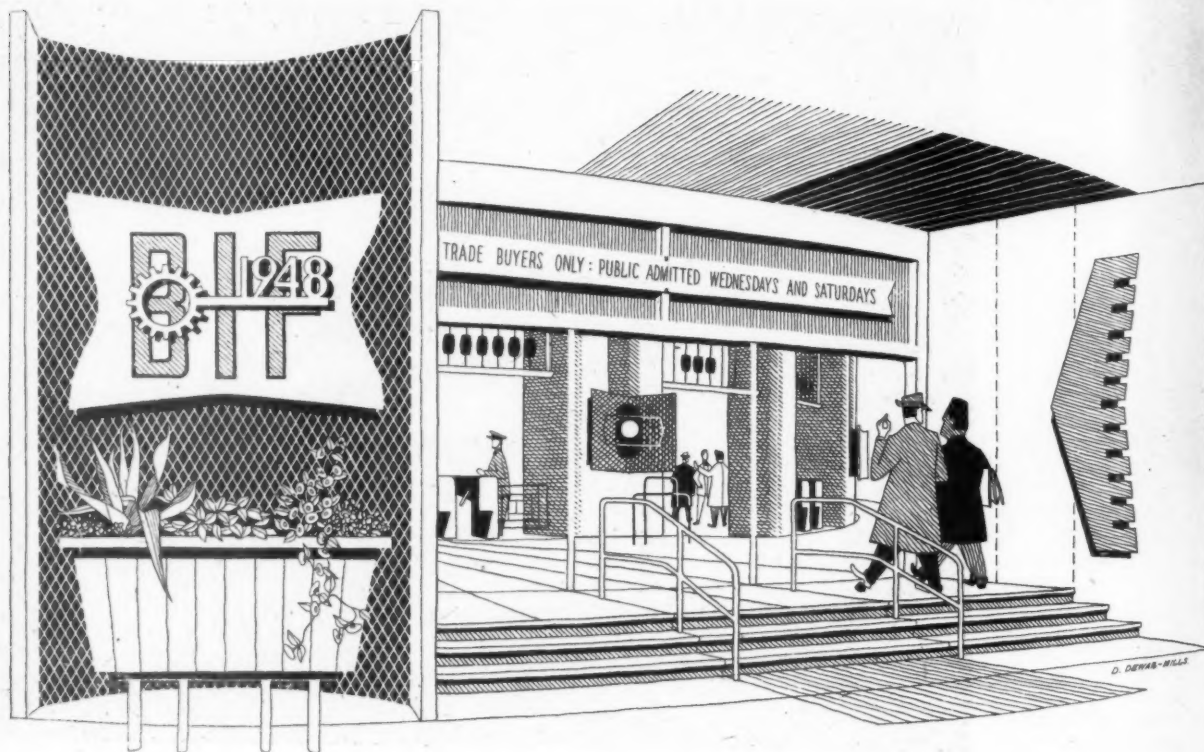
INTERNAL FINISHES.—Walls are plastered, dadoes in kitchen and bath room are cement rendered. Ceilings are skimmed with one coat hard plaster; walls distempered, and dadoes are covered with cement glazed finish. Floors are boards nailed on 1 in. clinker concrete, stairs are finished in polished green granolithic concrete with buff coloured margins.

SERVICES.—In all flats, the living room is heated by a solid fuel fire, with gas and electric fires in the bedrooms. Three blocks have gas coppers and multi-point unit gas water heaters in the kitchens. The remaining blocks are fitted with electric coppers and thermostatically controlled storage type water heaters. Refuse disposal is by a vertical duct conveying refuse to containers at forecourt level.

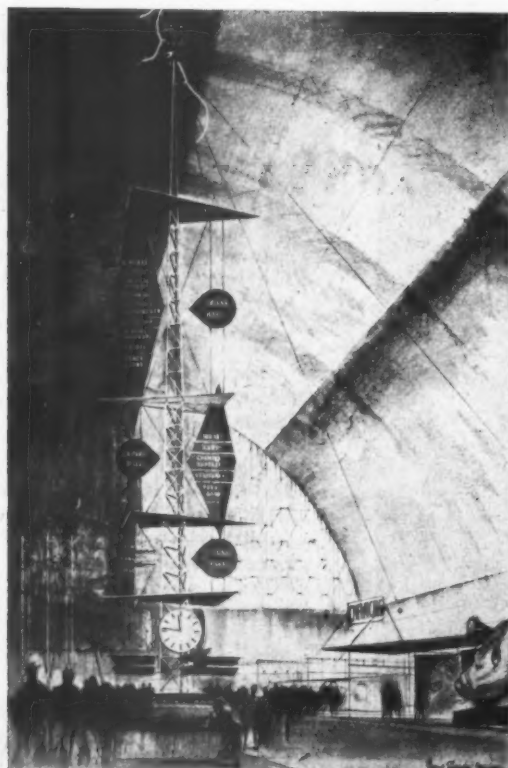
CONTRACTS.—Estimated at £357,000. The general contractors were Messrs. Holland & Hannen & Cubitt.
For sub-contractors see page 404.



BY C. H. WALKER, DIRECTOR OF HOUSING

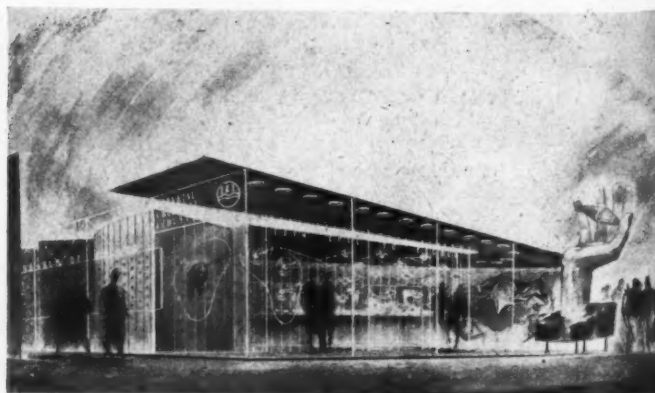


STANDS AT THE BIF.



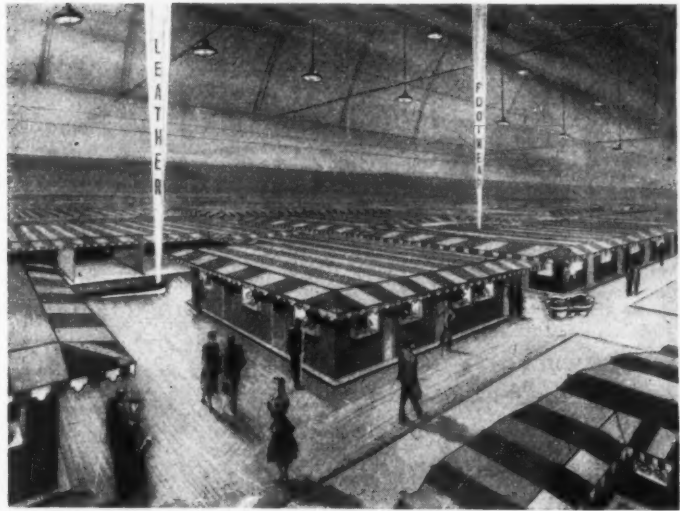
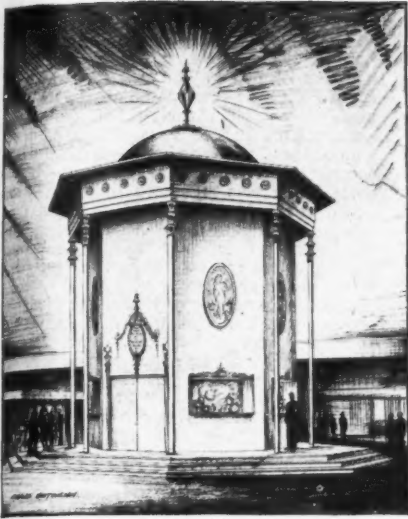
Top: the design by Maxwell Fry for the entrance to Earl's Court. Left: the Indicator Pylon in the Grand Hall at Olympia, and, bottom, the ICI stand, both designed by Basil Spence.

The attractive presentation of a variety of goods is becoming a familiar task to the architect. The BIF this year (open from May 3 to May 14) will be more than ever a shop window for foreign buyers, and the Board of Trade have appointed well-known architects to ensure a high standard of presentation. Maxwell Fry has supervised Earl's Court, and Basil Spence, Olympia. The whole of the National Hall at Olympia has been allotted to the



Above, the
right, L.
Pavilion
Bottom,
A. C. E.

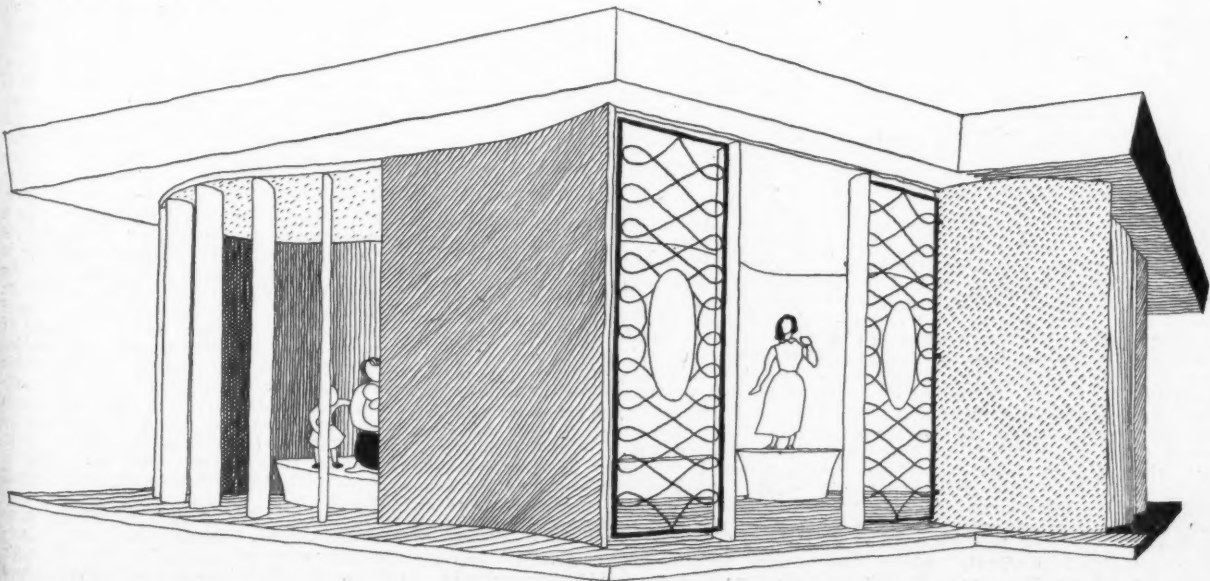
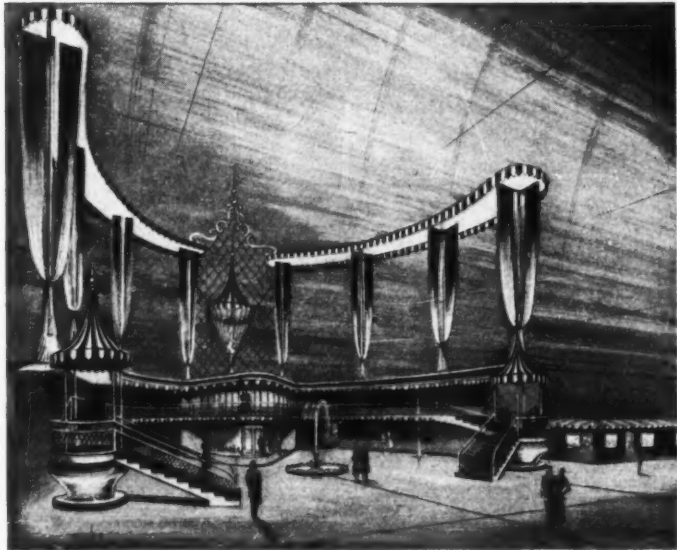
Jeweller
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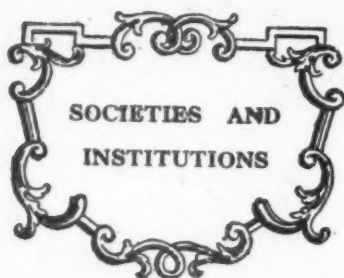


Above, the Jewellery centre exhibit. Top, right, Leather Section; centre, the Leather Pavilion; designed by Hulme Chadwick. Bottom, The Viyella stand; designed by A. C. Braven.

Jewellery Section. Hulme Chadwick, the architect responsible, has planned the four sections of the industry, jewellery, silver, cutlery and clocks, round a centre pavilion. The stands are of uniform design, but are easily distinguished by different colour schemes.

A stand for Viyella materials has been designed by A. C. Braven. The fascia is cantilevered from vertical veneered fins which form a screen wall and flank a series of alcoves draped in material. In the centre of the stand is a procession of puppet figures made of turned timber with peg joints.





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

AA

G. A. Soilleux

March 17. At the AA, 34/6, Bedford Square, W.C.1. THE PLANNING OF THE UNITED NATIONS HEADQUARTERS. The President of the AA, Mr. Howard Robertson, was in the chair.

G. A. Soilleux : I should like to begin by giving you a brief account of the events leading up to the selection of the New York site as the permanent home of the United Nations. The decision to house the United Nations in New York was taken by the General Assembly when it met in London in 1946. The General Assembly decided that the site should be somewhere on the eastern seaboard of the United States, and for preference near New York; because, taking the view that the headquarters should be in the United States, it was considered that the eastern seaboard might be regarded as being reasonably close to the geographical centre of the world from the travel point of view.

The General Assembly therefore set up a nine-man Commission to investigate possible sites. The Commission made an exhaustive study of the area, but after some months sent back to London an inconclusive report. As a result, the General Assembly widened the scope of their search to include sites offered at reasonable cost in Boston, Philadelphia, and San Francisco. The Commission visited these, and during their visits a further offer was made, by the New York City authorities, of the World's Fair site on Long Island, at Flushing Meadows, and that was also investigated. The Commission had a very good time, travelling about and being fêted everywhere. The eastern seaboard was decided on.

Before the Commission could make their report, however, John D. Rockefeller offered to give 8,500,000 dollars to enable the United Nations to purchase a site of 17½ acres in Manhattan, extending from 42nd Street to 48th Street and from the East River to First Avenue. This was a much smaller area of land than some of those considered previously, which had varied from 2½ to 40 square miles, but by this time people were tired of travelling

about and anxious for a decision, and so the General Assembly authorized the Secretary-General to accept the offer and to have a plan study of the requirements made. The Assembly also authorised the setting up of a 16-nation Headquarters Advisory Committee, and the appointment of Wallace K. Harrison, the eminent American architect, as Director of Planning, with a 10-member international Board of Design to assist him. It was realised that the urgency was such that the normal method of international competition, whilst possibly the more correct procedure, would be too slow in the circumstances.

THE HEADQUARTERS PLANNING OFFICE

In the early part of 1947, the Headquarters Planning Office began to take shape. Wallace Harrison took hold of the reins as Director of Planning, with his partner, Max Abramovitz, as Deputy Director, and the selection of the 10-member Board of Design was proceeded with from nominations submitted by 39 nations. The first members to assemble in New York were virtually the Big Five; they were Great Britain's representative, your President, Howard Robertson, and the representative of France, Le Corbusier, both equally well known; the representative of the USSR, a charming engineer-architect, Nicolai Bassov; from China another charming personality, Dr. Szu Ch'eng Liang, a professor of architectural archaeology, and another well-known architect, Oscar Niemeyer, of Brazil. Of this group, two members, Bassov and Le Corbusier, had been in America actively engaged in the search for a site for the headquarters.

The second stage was the selection and assembly of the five remaining members of the Board: Sven Markelius, of Sweden, a well-known town planner; Ernest Cormier, of Canada; Gaston Brunfaut, an architect from Belgium; a charming Uruguayan, Julio Vilamajo, who was unfortunately taken ill towards the end of the proceedings; and finally myself, from Australia.

In order to widen the international representation, and to provide further representation for some of the smaller nations, six additional consultants were appointed. They were Mathieu Nowicki, from Poland; Ernest Wiessmann, from Yugoslavia, a most amusing and delightful man, who I hope has not been crushed by the iron curtain; Josef Havlicek, from Czechoslovakia; Vladimir Bodianski, from France; Peter Noskov, from the USSR; and John Antoniadis, from Greece.

THE SPECIALISTS

We also had the valuable assistance of three specialists from New York City: Ralph Walker (of Voorhees, Walker, Foley & Smith), who had been responsible for the whole of the reconstruction of the Spiro plant at Lake Success to convert it into the present headquarters; Louis Skidmore (of Skidmore, Owings & Merrill), who had carried out the alterations to the old skating rink in the World's Fair at Flushing Meadows to fit it for use by the General Assembly; and Gilmore Clarke (of Clarke, Rapuano & Holleran), an expert of international repute on landscaping and highway and traffic planning. Last, but not least, we had the help of Hugh Ferriss, who, as you know, is the doyen of architectural renderers in the world, despite the fact that in a letter to me one of my younger partners wrote that he was interested to hear that Hugh Ferriss was working with us, "because when I was young I thought that Hugh Ferriss was the doyen of architectural renderers, but by now he must be quite passé." Hugh Ferriss was very far from that; he had the hardest job of any of us, and he never let us down. We broke up into little groups and had an architectural dream, and we explained it to him, and next morning he would turn up with a drawing of our dream.

THE PLANNING PROBLEM

The whole of the period of about twelve months before the assembly of the Board had been occupied by an exhaustive research, carried out by a research group of UN, who made a complete analysis of the actual requirements in the way of space, communications, and so on, and these when completed were made into a massive document which was presented to us when we assembled in New York. It crystallized an enormous amount of work, and cut out the usual long series of client-and-architect cross-questionings, enabling us to get right down to the problem of design.

It soon became apparent that the planning problem was the correlation of three widely divergent types of building. Each was to be designed for a specific purpose and to serve its own ends; but they had to be tied into one whole, and the architectural problem was very largely one of grouping these very different buildings together into some sort of aesthetic whole which would not only look well but work well.

CIRCULATION

We were faced with one problem not usually found in normal building design, the problem of circulation patterns. Normally when designing a theatre, or a school, or a department store, you have a dual circulation pattern; with a school, you have the circulation of the pupils and the circulation of the staff, and so on; but in this case we had not two different patterns but four: (i) the delegates, who were a race apart, and who had to be both protected from and made available to the public and the press; (ii) the secretariat, who service this gigantic organization; (iii) the press, who had to have access to the meeting halls and have contact with the delegates, while having their own working-space to return to, with their telephones and other means of communication; and (iv) the public, who had to get to the meeting halls and meet delegates from their own country, but not have an opportunity to put a clockwork device with TNT in it into a delegate's pocket.

The problem was solved by the simple use of colours. We used blue for the delegates, red for the secretariat, yellow (I do not know why!) for the press, and brown for the public. That enabled us to keep all the tracks separate, and to see at once which areas were available to each class.

TYPES OF BUILDING

The buildings were of four different types. The Secretariat is a high skyscraper, and became of necessity an office building, because in the main the secretariat is an office organization. It is housed at present at Lake Success and now numbers about 3,000, but it is expected that in the next few years the numbers will rise to 4,500. It is mainly a machine which services the meeting hall areas and the general working of the United Nations. You may have the impression from the pictures that the wall of the Secretariat is entirely of glass, but that is not so: it will be a grid of metal frame and glass, and polished black granite or a metal such as aluminium between the window spaces. The Secretariat building is raised above the ground on piles, and the Assembly building also is raised above the normal level. We found that this helped to solve the problem of access; it helped us to get the public into the elevator lobbies or into the General Assembly by being able to bring them in at a lower level, underneath the main floor of the building, and then bringing them up to their places by elevators. Because we were in New York, tradition and custom forced us to use a skyscraper; moreover, we were on a limited site.

The Meeting Hall Area is the working core of the United Nations, where its unspectacular work goes on. The three Councils—the Security Council, the Economic and Social Council and the Trusteeship Council

—are in constant session, as are also various Committees of the General Assembly. All the necessary facilities and amenities must be provided for them. We have to provide bars and lounges in which the delegates can meet people, and there must be rapid inter-communication between all the different halls. The Great Powers are comparatively wealthy, and can afford to have five or six delegates, but some of the smaller countries cannot afford to send numbers of delegates, and the work devolves on one or two, so that a delegate may have to attend a meeting of the Security Council and then rush away to address a Committee on Social Rights, and then visit another hall for some other purpose before returning to the Assembly. We have tried, therefore, to make communication between the halls as simple and rapid as possible.

There was a difference of opinion among the designers about the nature of the Meeting Hall Area; some of us wanted a low multi-storey design of five or six floors; others wanted a single-storey design; in the end it was decided to have four floors, because it was felt that a single-storey plan would cover too much of the site, and that the distances between one room and another would be too great. The single-storey plan was the simplest, but I think that in the end we came to a good compromise.

The General Assembly is the show-piece or façade of the whole United Nations plan. It meets, unless there is an emergency, only once a year, but the session usually lasts for two or three months. Many reasons dictated a special building for its use. It was easier to have a building which could be shut down when the Assembly was not meeting, and which does not need at such times to be heated or serviced, and it can be readily opened for a Conference of the International Labour Organization or of any of the other Specialized Agencies. The General Assembly building has a curved shape, but that is still under discussion, and it is not certain that it will end up with the curved shape shown in the model. When I left New York we were redeveloping the front of the building on a straight line, because Mr. Wallace Harrison, when visiting South America, had seen a building of a similar nature with a curved front and was not very happy about the feeling of it.

The fourth building is to be erected on the northernmost portion of the site, and will eventually be a lowish skyscraper of 20 to 25 floors, to house the delegations to the United Nations and many of the Specialized Agencies. The present budget does not provide for the erection of this building, and it is felt that it may not be needed for four or five years, because the present Secretariat building provides a small cushion for expansion, and it is intended to keep that building, on its completion, filled, and not erect the delegations building until pressure on the available space in the Secretariat building makes that necessary.

Between the delegations building and the Assembly building there will be an open plaza of six or seven acres in extent. It will be slightly larger than Bryant Park in New York, which is the largest open space in New York apart from Central Park.

DESIGN PROCEDURE

The Board of Design, in February-March of 1947, got firmly down to work. By the end of March we were all assembled in New York, and much preliminary work had been done. In general, our method of work was to have a series of group conferences in our office in the RKO building in Radio City, which was on the 27th floor. We had a large design office, filled with clay models, and a drafting office, with two smaller rooms to house Hugh Ferriss and two or three hard-working modellers. We split into small groups, and we would get hold of a draughtsman to illustrate our ideas, and then at a full meeting all the sketches would be put forward and planned on the

walls. The author of each scheme would explain its merits, and the others would tear it to shreds.

THE PLAN

From all these prolonged meetings the actual plan began to take shape. It was difficult for people of different temperaments and nationalities and ways of thinking to come to agreement. Some of us thought in terms of cloistered arcades, and of the United Nations headquarters as a place for quiet and seclusion; others wanted a place of great openness, to which anyone could go at any hour of the day or night; but by trial and error and mutual criticism, from each idea came something which took us further towards the final scheme. There were about fifty basically different sketch designs prepared, and each one had offshoots and ramifications and variants, so that well over a hundred schemes and variants were prepared before we finally came to the general acceptance of the grouping of the buildings on the site and the forms which they were to take. The next stage was to present to the Headquarters Advisory Committee our preliminary report, and our designs as they then were, which gave to the Committee the complete answer, in our view, to what they wanted. As the client's ideas of what he wants are usually large, the Committee said to us, "That is fine. That is exactly what we want. What is it going to cost?" We gave the Committee the answer, which was 83,000,000 dollars. On that, the Committee passed out, but after a time Trygve Lie recovered sufficiently to tell us that we must investigate ways and means of reducing that figure by some 15,000,000 dollars.

That led to the next phase, which was to investigate ways of reducing the over-all volume of the project. We spent a long time on research, and in the main our method was to go to the departments concerned and, carefully avoiding the head of the department, to go not to the tallest poppy but to a poppy not quite so tall, and say, "You have asked us for such-and-such. That is fine, but it will cost too much; what can you really get along with?" In that way we got down to earth and eliminated a good deal of waste space. We refined and developed the plans; we made a much closer study of the circulation problem, and eliminated service floors between two meeting hall areas. We temporarily eliminated the library, which was planned to house 1,500,000 volumes. After three months' hard work, we succeeded in reducing the over-all estimated cost from 83,000,000 dollars to about 65,000,000, and in my opinion we did so without impairing the general plan or the layout or the type of any of the buildings, and we presented a more compact and workable and efficient scheme.

THE TRAFFIC PROBLEM

Simultaneously, we had another vast problem, the traffic problem to the approaches and round the site, allied with the parking problem on the site itself. The City of New York have collaborated magnificently with the United Nations authorities in work around the site. They have planned—and they have completed all the drawings, and are ready to put the plan into operation—a two-level driveway on the First Avenue level, extending the full length of the site, which will divert all through traffic past the actual site by the lower level, leaving the upper level available for traffic going immediately into the United Nations area. They have widened and largely eliminated a bottleneck tunnel at the end of 42nd Street, which is the main approach to the site from the Grand Central Station, and at present is the terminal of a bus route. They are putting in a tunnel double the width of the present one. They are acquiring and pulling down tenements on the 42nd Street level, which will be the main public access to the site, and

they are widening 47th Street from its present width of 60 feet to an avenue 150 feet in width. They are co-operating with us in bridging over the whole length of the Franklin D. Roosevelt Drive on the East River, so that the U.N. site will extend right over the present roadway to the river's edge, which will give us a large area of land as a breathing space. In all, the New York City programme will cost the City about 15,000,000 dollars.

On the site itself we are favoured by the fall of the land, which is about 30 feet, generally speaking, from the First Avenue side on the West to the East River Drive. That enables us to excavate against the slope and have two levels for parking motor-cars underneath the ground level of the site, which will enable us to park about 2,000 cars underneath our own area. The first stage of construction will provide for 1,100. This parking area is approached by three roadways.

On the river there will be provided a landing stage for both river traffic and helicopter traffic, because we consider that eventually there will be a shuttle service of helicopters running between the site and the La Guardia airfield, which will enable the journey to be done in a few minutes, instead of the hour which it takes now.

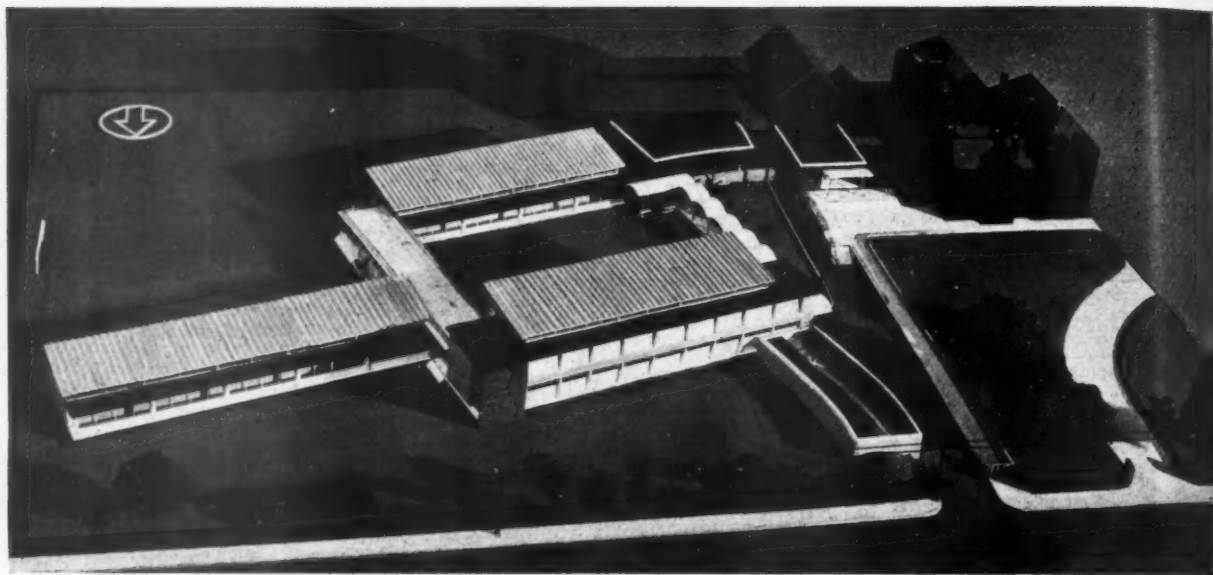
SUN CONTROL

One problem which arose in connection with the skyscraper Secretariat building, which has its main axis north and south and its main light sources east and west, was the provision of some form of brise soleil. We investigated all the methods used in Brazil and Australia and elsewhere, but were finally forced to the conclusion that any system of permanent brise soleil would be impracticable in the New York climate, mainly for two reasons: (i) permanent shuttering tends to restrict the view in many ways, and (ii) in the intense New York winter, with sub-zero temperatures and rapid thaws, any projection on the otherwise smooth face of a building forms icicles which hang from it, and drop off in a thaw, to the great danger of life and limb.

For those reasons we abandoned the idea of any fixed form of brise soleil or sun control, and we think that we have solved the problem in another way. We have varied the depth of the window glass on the east and west faces. We have been working in the main on a module of grid horizontally of 4 feet, but vertically of variable height; and on the eastern face, which overlooks the East River (a very pleasant view), we have given the maximum glass area possible to each office, from table-top height to 8 feet to 8½ feet above the floor. The ceiling height is 9 feet and the floor-to-floor height 12 feet. On the western side, where the sun in the New York summer will be fierce, we have narrowed down the glass opening to 4 feet, from table-top height to door-head height, and we think that this will be a fairly effective answer to the sun problem. We have internal Venetian blinds as well.

AESTHETICS

The buildings themselves are aesthetically simple. They are neither "modern" nor archaic. They do not pretend to be in any style or of any particular breed, save that they are what they are: they are buildings which are to serve a very definite purpose, each one serving its own purpose. The good old saying that "form follows function" is very true in this case; we have simply put an envelope round the outside of the internal purpose. We think that the buildings will have sufficient grace and dignity to carry it off. The Director of Planning, Wallace Harrison, coined a phrase which seems to have stuck, and which I think is very apt; he said, "The Headquarters Planning Office has designed not a building but a workshop for peace," and I think that he is right.

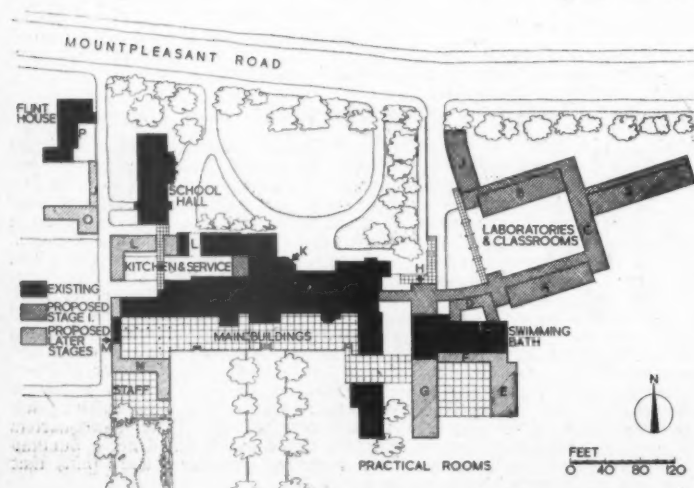


SCHOOL AT SAFFRON WALDEN

DESIGNED BY KENNETH BAYES

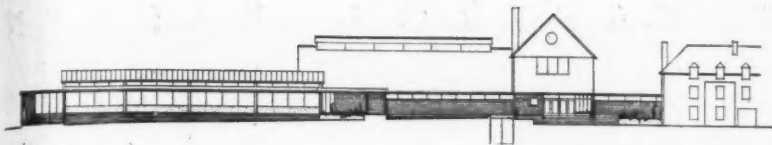


Left, the existing buildings; top, the model from the north.

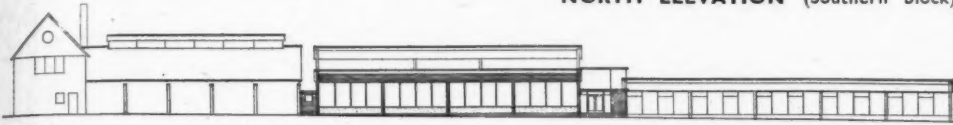


Left, the development plan showing: A classrooms, B science block, C promenade, D cloakrooms, E gymnasium, F widened bath surround, G changing room, H senior boarders' and day children's entrance, J cycle storage, K administration and visitors' entrance, L kitchen, laundry and domestic quarters, M junior boarders' entrance, N staff studies and common rooms, O music block, P domestic science house. Considerable internal alterations are necessary to the Main Buildings (shown in black) to simplify circulation and to make existing rooms suitable for new uses.

GENERAL.—The problem was to improve facilities in a Quaker co-educational school, which consisted of buildings dating mainly from the late 19th century, with ill-lit central corridors, an institutional character, a tortuous circulation, and inadequate space. The governing committee was determined to bring the accommodation up to Education Act standard and was aware of the necessity of a master development plan. The school consists of about 200 boarders and 80 day pupils. There is a large area of land on the east side of the old buildings suitable for extension. A master development plan has been prepared, in which circulation and function are brought into order, entailing both changing the use of existing rooms and proposing new extensions. The proposed new buildings include a unit for all new classrooms and laboratories, new gymnasium and changing rooms with extensions to the swimming bath, new staff studies



NORTH ELEVATION (Southern block)



SOUTH ELEVATION (Southern block)



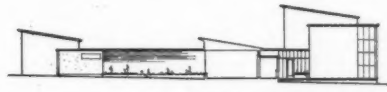
NORTH ELEVATION (Northern block)



SOUTH ELEVATION (Northern block)

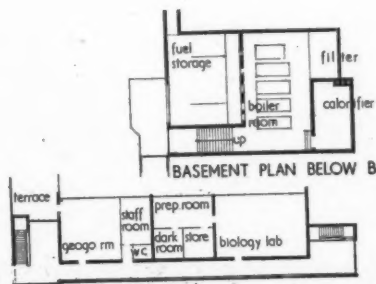


WEST ELEVATION



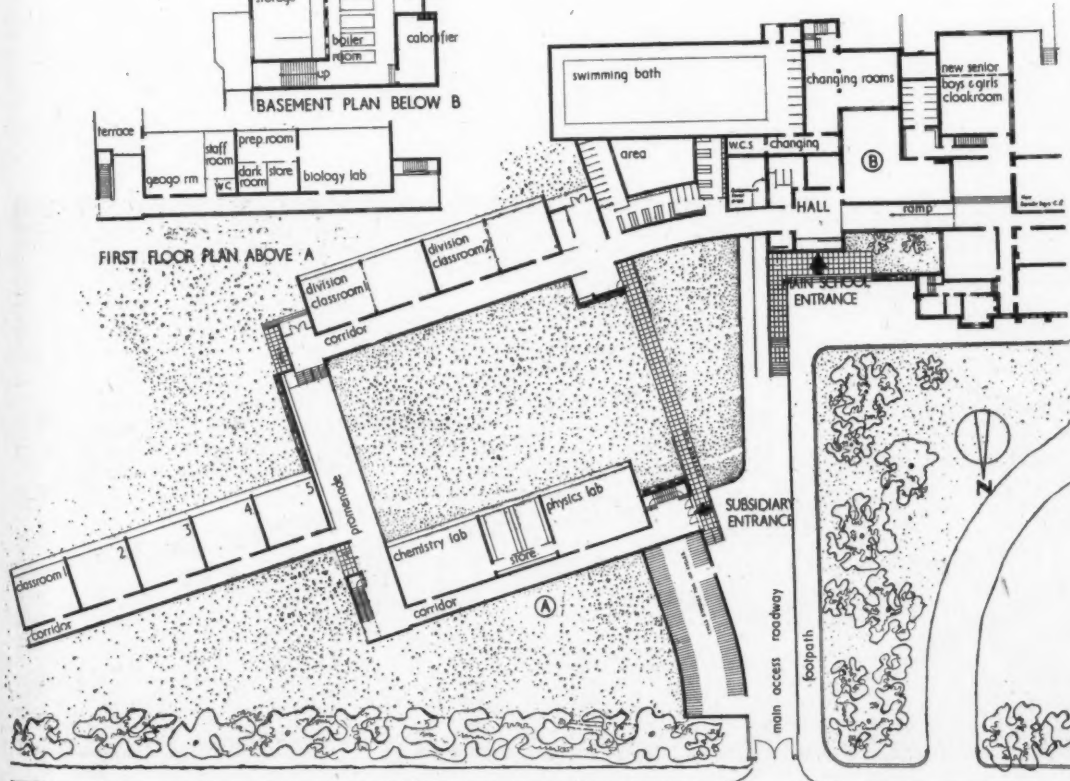
EAST ELEVATION

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



BASEMENT PLAN BELOW B

FIRST FLOOR PLAN ABOVE A



PLAN OF FIRST STAGE: classroom and laboratory blocks

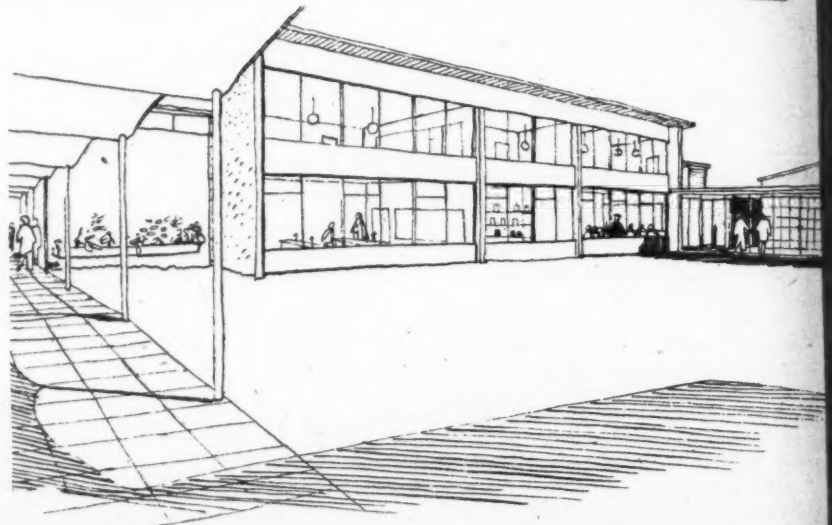
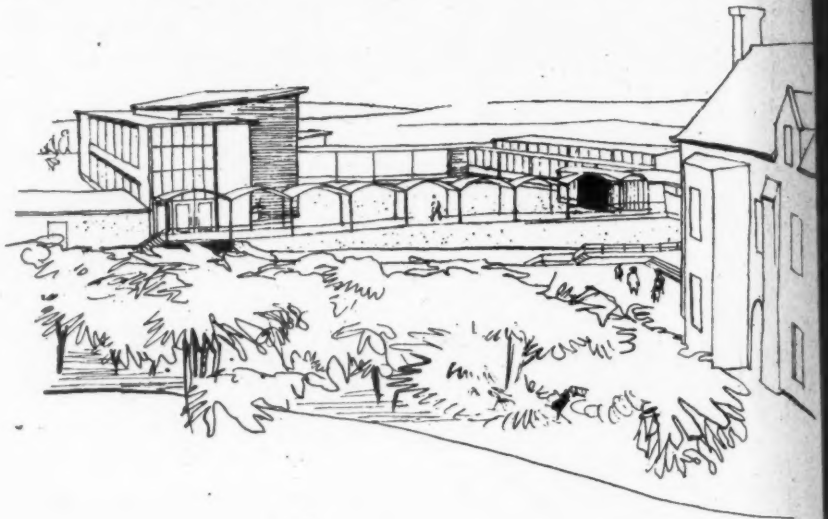
SCHOOL AT SAFFRON WALDEN

and common rooms, and a new music block. Internal replanning of the existing buildings consists of straightening out the complete circulation; providing common rooms and storage space for boarders, increasing sanitary and dormitory accommodation, improving the kitchen quarters and domestic staff rooms and enlarging the dining space. A small amount of demolition is necessitated by these developments. A scheme was worked out for implementing this plan by easy stages.

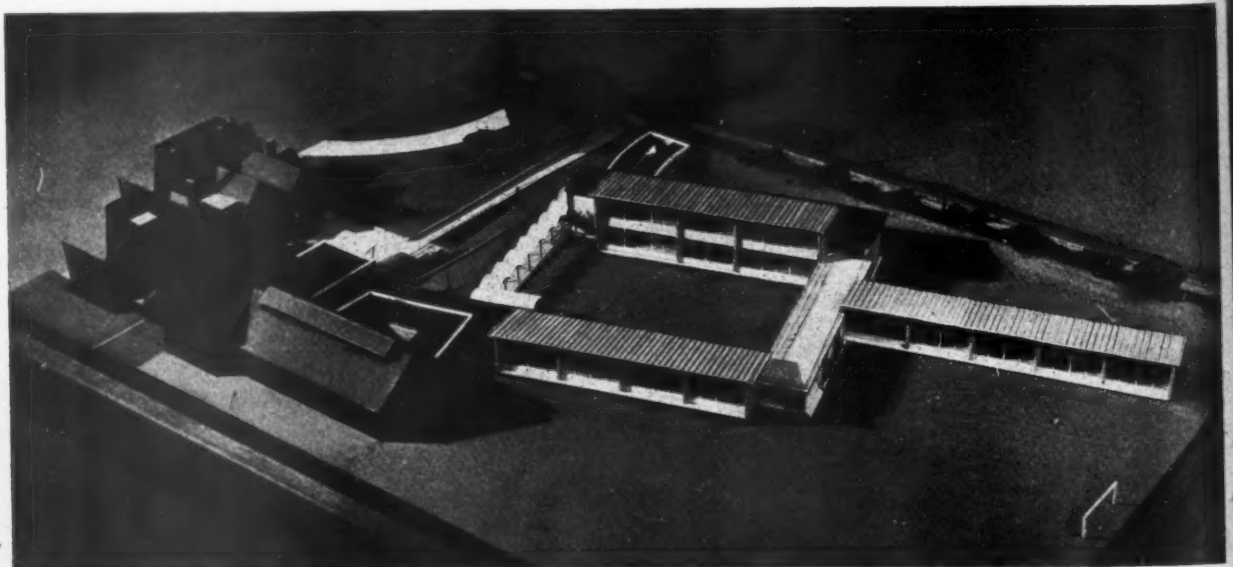
Detailed plans have now been prepared for the first stage, the new classroom/laboratory blocks. This extension groups together all the main teaching work of the school, releasing rooms in the main building for boarders' leisure rooms. A new main entrance links up the circulation of the existing building with that of the new extension. The flat roof of the promenade will be paved for use from the geography room.

The siting of this extension is in accordance with the master development plan and, screened from the existing buildings by a bank of fine trees, enables the elevational treatment to be free.

The estimated cost of this part of the main scheme is £50,000.



Right, two sketches of the proposed classroom/laboratory block; below, the model from the south-east.



DESIGNED BY KENNETH BAYES

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TECHNICAL SECTION

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

INFORMATION CENTRE

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

2.32 planning: general PLANNING APPEALS

Bulletin of Selected Appeal Decisions. Ministry of Town and Country Planning. (HMSO, 1948. 6d.)

Second list of selected appeal decisions (for first list see Item 2. 24:1.1.48). Concise abstracts of disputed cases regarding future developments.

Aspects covered include rebuilding of war-damaged factory in congested area, proposed establishment of greyhound racing tracks, reinstatement of war-damaged commercial and residential premises, housing for agricultural key workers, house conversion into flats, and use of agricultural land for sand and gravel working.

4.33 planning: urban and rural NEW TOWNS: USA

New Towns—Some American Examples of Urban Deconcentration. H. P. Oberlander. (School of Planning, APRR, Mar., 1948.)

Informative talk recently given at School of Planning Club. Definition of new towns' task in solving problem of overcoming shortcomings of 20th century cities. Need to create environment of urban amenities in relation to human scale.

Early USA experiments including development and significance of Radburn, N.J., begun in 1928, and reasons for failure of New Jersey Homestead, a little known project designed by Stonorov and Kahn for Ladies Garment Workers Union of New York.

Greenbelt, Greendale, and Greenhill, series of new towns sponsored by US Farm Rehabilitation Bureau in 1934 under New Deal legislation. Description of Greenbelt near Washington as probably most important development. Critical comment on Green-

belt's significance and on subsequent failures of all "green" towns.

Construction of Norris, Tennessee, as part of TVA programme. Park Forest, near Chicago, most recent attempt to build new town for 8,000 families. Project sponsored by private company.

Concluding remarks on historic background to evolution of new towns in USA.

5.21 planning: public utilities TRUNK ROADS: SURVEY WORK

Some Aspects of Trunk Roads Survey Work. J. C. Moncrieff. (J. Institution of Municipal Engineers, Mar. 2, 1948, pp. 437-459.)

Useful paper discussing land surveying aspects and procedure in connection with layout and future development of trunk roads under Trunk Road Acts.

Details of information required before planning future road development. Order in which to carry out survey, and survey methods to be adopted. Plotting of detailed survey and preparation of plans. General principles to be kept in mind regarding layout of future road lines. List of proposed traffic facilities for trunk roads based on 1938 traffic volume in vehicles per day, giving type of carriageway together with its proposed standard width. Tables of curve data based on 50 miles per hour speed value.

10.30 design: building types HOSPITAL DESIGN: ABROAD

Visit of Charing Cross Delegation to European Hospitals: Travel Report No. 1. King Edward's Hospital Fund for London. (G. Barber & Son, Ltd., 1948. 1s.)

Report of delegation from Charing Cross Hospital, London, on visit to five hospitals in Europe in order to study design and planning. Valuable summary of impressions. Some general notes on characteristics of individual hospitals visited, followed by consideration of arrangements of essential departments and services. Illustrated by tables and diagrammatic sketches. General conclusions suggested by visit.

The delegation visited the Beaujou Hospital, Clichy, Paris, the Hospital for Children and the new Polyclinic, Zurich, the new Burgerhospital, Basle, and the Southern Hospital, Stockholm. It is stated that the report aims at providing a summary of impressions rather than a highly detailed technical description. It therefore considers the arrangements of the essential departments and services of an imaginary hospital by way of summarizing the various features noted in the five hospitals visited. Planning and design aspects thus described cover administration including staffing, records and teaching services, the patients' services including casualties, visitors' entrances, in-patient and out-patient services, and special services such as laboratories, autopsy and mortuary facilities, and pharmacy. Another section is devoted to a description of general services, covering collection of dirty linen and refuse, lifts, sterilisation, ventilation, heating, light and power, water, suction and pressure, and libraries. A final chapter deals with structural features and gives

information on unit building, unit furniture, corridors, doors, signals, various types of equipment, and materials.

The general conclusions appended to the report are most informative and deserve particular study. It should also be noted that the report is interspersed with dimensional data of interest to the hospital architect.

17.25 construction: general TECHNICAL REFERENCE

Architects' Technical Reference. 1948. The Architectural Association. (The Rolls House Pub. Co., Ltd. 25s.)

Revised edition of the pre-war reference book. New sections on aluminium and structural insulation of houses and flats. The bibliography, now enlarged, includes details of the official publications covering the building industry, and among the new features is a schedule of British Standards applicable to building.

17.26 construction: general DENSE CONCRETE WALLS

Dense Concrete Walls. Draft BS C. of P. Sub-Code 123.101:1948. (British Standards Institution. 3s.)

Materials, design considerations and workmanship.

This code deals with the materials, design and construction of external, internal and party walls of solid and cavity construction, both plain and reinforced, in cast *in-situ* dense concrete. Beside general principles, such as exchange of information, materials to be used, setting out, etc., it explains the requirements of walls which are dealt with in Chapters III to IX of the Code of Functional Requirements of Buildings. It contains data on the thermal transmittance and sound reduction of solid and cavity walls in dense concrete and emphasizes the importance of damp-proof courses and expansion joints for which illustrated details are given. Some details of various types of surface finish are also included.

It is difficult to see the practical purpose of this document. Dense concrete has a high thermal transmittance coefficient. A solid wall of such concrete without lining is quite inadequate from the point of view of heat insulation. On the other hand, the strength of a solid dense concrete wall is far in excess of the strength requirements of two- or three-storey buildings. According to Clause 305, for plain concrete walls, the concrete should have a compressive strength of not less than 400 lb./sq. in. at 28 days. This strength is easily obtained with light weight concrete or no-fines concrete, and there is no point in using "dense" concrete. Unless the strength of the concrete exceeds the specified minimum many times, it cannot be called "dense." It is mentioned in the Code that in cavity walls the thermal insulation can be improved by the use of light-weight concrete for the inner leaf of the wall. In this type of construction the inner leaf (i.e., the light-weight concrete member) has to carry the full load from the floors and the roof.

The cavity brickwall was invented to avoid the shortcomings of a 9-in. solid brickwall. A further improvement was the substitution of light-weight concrete for brick in the inner leaf. If, however, brick is omitted altogether, the reasons in favour of a double leaf wall do not apply any more, since a solid wall of light-weight or no-fines concrete of adequate thickness does not possess the deficiencies of a 9-in. solid brickwall.

The use of dense concrete in walls should be confined to cases where the strength of this material (say a minimum of 2,250 lb./sq. in. at 28 days) is really necessary, e.g., in multi-storey buildings of the "box-frame" type. In two- to three-storey buildings, solid walls of light-weight or no-fines concrete

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are more suitable than solid or cavity walls in dense concrete.

The distinction between "plain" concrete in which "no reinforcement is included for structural purposes, but in which reinforcement may be provided for the purpose of restraining shrinkage and other movements" and "reinforced" concrete, with steel for structural purposes, is not practical. Once reinforcement is provided, whether for structural or other purposes, the concrete has to be treated as "reinforced" to protect the steel against corrosion. Thus the provision of reinforcement necessitates the use of a dense mix, where otherwise a lean mix, with much less shrinkage, may be sufficient.

The arrangement of weep holes as shown on several figures is subject to criticism, e.g., in Fig. 1 the weep hole is at ground level where it may be clogged. Its correct position is at least 3 in. (preferably 6 in.) higher (see Information Sheet 26.A1).

17.27 construction: general

BRITISH STANDARDS YEAR BOOK

British Standards Year Book, 1947. (British Standards Institution. 3s. 6d.)

List of BS issued up to March 31, 1947. Subject index 324 pp.

17.28 construction: general

CONCRETE CONTROL

Concrete Control. Paper read to the RCA by L. J. Murdock. (The Builder, Mar. 19, 1948, pp. 341-6.)

Duties of concrete engineer. Handling and selecting of aggregates. Proportioning of aggregates, cement and mixing water. Sampling and testing of concrete. Supervision and workmanship.

The paper is a good summary of present-day practice based on the author's experience in concrete control with Messrs. George Wimpey & Co., Ltd., and on publications by the American Concrete Institute.

19.38 construction: details

PRECAST FLOORS AND ROOFS

The Precast Concrete Products Industry in Germany. FIAT Final Report No. 1,123. (HMSO, 6s. 6d.)

Various systems of precast reinforced concrete floors and roofs. Model house in precast concrete and other applications. The use of lightweight concrete. Well illustrated with diagrams.

This report was prepared from the American point of view by the Field Information Agency Technical United States Group Control Council for Germany. Emphasis is laid on the possible applications of German methods of construction in USA.

The shortage of timber and steel in Germany was instrumental in the development of a very efficient precast concrete industry. The war years accelerated research and development to the extent that precast units were used for complete bridges, underground factories, etc. Within the industry most products plants were found to be well staffed with skilled and talented personnel.

Most types of the floors described in the report are designed for the purpose of repair and reconditioning of damaged buildings, and consist of combinations of precast joists and hollow blocks. The varied conditions in each city have brought out a number of different systems, and no case was found where two cities had approved the same system.

The only floor of outstanding importance is the Schäfer slab (already referred to in No. 19.32), which has a universal application to walls, roofs, etc.

Several types of pitched roof are also described, but none of them seems to be a practical proposition. Of interest, however, are the roof trusses, manufactured at Lei-

men, which can be used for spans between 15 and 40 ft. These trusses are primarily designed to be made in prestressed concrete and are suitable to replace steel trusses.

20.68 construction: complete structures

MASONRY VIADUCT REBUILT

Concrete Rigid Frame Rise on Old Stone Viaduct Piers. (Eng. News-Record [USA], Feb. 26, 1948, pp. 326-7.)

Railway viaduct of Desenzano rebuilt in reinforced concrete. Tubular scaffolding over 90 ft. high was used to support the metal formwork with complete success.

20.69 construction: complete structures

GLASS IN WALLS AND ROOFS

Navy Building Features Glass Exterior. (Eng. News-Record [USA], Mar. 4, 1948, pp. 351-3.)

Extensive use of glass in walls and roofs of repair shop for naval shipyard.

The article describes details of a new ordnance repair shop building under construction at the San Francisco Naval Shipyard. The outstanding feature of this building is the extensive use of glass in the walls and roofs, covering some 80 per cent. of the total surface. Corrugated translucent glass sheets some 2 ft. 6 in. x 5 ft. are used for the high-ceilinged, heavy-lift portion of the building on the north side, and clear blue, heat-absorbing and glare-resisting glass in flat panels about 4 ft. square encloses a six-storey section on the south side. The northern portion is steel-framed, the southern is in mushroom construction. The framework has been designed to resist earthquake.

23.57 heating and ventilation

HOSPITALS

Factors which Affect the Planning of Hospital Engineering Services. L. Copeland Watts. (Heating and Ventilating Engineer and J. of Air Conditioning, Mar., 1948, pp. 366-375.)

A useful general paper for engineers, mainly on heat services, but of interest to architects working on hospitals.

25.52 water supply and sanitation

GARCHHEY REFUSE DISPOSAL

The Garchey System of Refuse Disposal. R. A. H. Livett. (Municipal Engineering, Mar. 5, 1948, pp. 130-132.)

Good and fairly detailed description of the Garchey system, with analysis of installation and running costs.

The Garchey system has been described a number of times before, but the present publication, which is a report of a lecture given to the Royal Sanitary Institute, gives a rather more detailed description of the installation at Quarry Hill Flats, Leeds, than has appeared in most previous articles. It also has the value of containing the considered opinion of the architect responsible for its use after he had watched it in operation for nine years. It is clear that he is entirely in favour of its more general adoption, although he points out that it is only economically feasible for fairly large schemes. Some useful figures of capital and running cost of the Quarry Hill installation are given.

26.27 services and equipment: miscellaneous

CINEMA SCREEN

"Concave-Convex Screen". (Architect and Building News, Mar. 5, 1948.)

Fibre-glass screen curved in two planes for which is claimed uniform brightness all over the surface and absence of distortion when viewed from side seats. Makers, Nu-Screen Corporation, 1,501, Broadway, New York. Photograph and diagram.

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

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QUESTIONS AND ANSWERS

2941 BUILDING IN AUSTRALIA

Q Is there anywhere in England where particulars can be obtained of the regulations covering the construction of buildings in Australia?

A The Commonwealth Experimental Building Station of Australia has a Technical Officer resident at Australia House, London, W.C.2, from whom such information can be obtained, together with particulars of any research which is being carried out on this subject in that country.

2942 WAR DAMAGE CLAIMS

Q Could you let me know whether there are any arrangements by which a claim for war damage can be made now. I was away at the time of the incident and no action was taken then?

A A claim for war damage sustained by enemy action can still be made to the War Damage Commission. Form C.I. (L.N.)—the L.N. standing for late notice—can be obtained from the Regional Commissioner of the War Damage Commission in the area concerned, for this purpose.

Announcements

The Council of the Incorporated Association of Architects and Surveyors have elected Mr. Charles W. Glover, F.I.A.A., M.I.STRUCT.E., senior partner in the firm of Messrs. C. W. Glover and Partners, consulting engineers and architects, of 54, Victoria Street, Westminster, as President of the Association for the ensuing year. Mr. C. H. Taylor, senior partner of Messrs. Taylor and Smith of Lincoln's Inn and Messrs. Hogg and Keay of Belfast, and Mr. W. Forbes Campbell, a past-President and senior partner of Messrs. W. Forbes Campbell and Partners of Glasgow and Brighton, have been elected Chairman and Vice-Chairman of Council, respectively.

The Post Office has given details of the special construction carried out in 1941 to safeguard the trunk and toll telephone services against enemy action. The Citadel, a huge concrete structure, was erected at the rear of Faraday Building in Queen Victoria Street, containing 40,000 tons of concrete, 2,200 tons of steel reinforcing, and a concrete roof 7 ft. 6 in. thick. It was made self-contained with a continuous water supply and with food for three months. The foundations vary in thickness from 5 ft. to 10 ft., and the outer walls are 6 ft. 6 in. thick below ground and 3 ft. 3 in. above. The floors dividing the three floors are 1 ft. 6 in. thick and walls inside 2 ft. 3 in. thick. An artesian well 600 ft. deep yields 2,000 gallons an hour. Heavy steel doors weighing four tons protect the main entrance. The Citadel was connected by an 8-ft. diameter shaft to the elaborate system of deep level cables in the underground railways and the specially constructed Post Office tunnel which had been developed in the early years of the war.

The condition of Maison Dieu House, Dover, which is scheduled as an ancient monument, is causing much anxiety. It is a fine Jacobean house of red brick, built in 1665, standing in the centre of Dover beside the town hall, in which is incorporated the more ancient Maison Dieu itself. It has been used as municipal offices since 1904. In addition to severe war damage, it has now been discovered that parts of the oak timber roof, floor joists, and lintels have been damaged by dry rot and beetle. The full extent of this has not yet been ascertained, and the building must be evacuated before the survey is carried any further. The cost of restoration is conservatively estimated at £7,000, and the town council feels itself unable to incur this expenditure. It is probable that an appeal to contribute to the cost of restoration will be made in Dover.

The Architect to the Newcastle-upon-Tyne Regional Hospital Board would be glad to receive catalogues and recent trade information relevant to the construction and equipping of hospitals. His address is "Dunira," Osborne Road, Newcastle-upon-Tyne 2.

Competitions

Royal National Eisteddfod of Wales Architectural Competitions, 1948. Competition 192 for a county college. Competition 193 for a neighbourhood unit layout. Assessors: C. F. Bates and T. Alwyn Lloyd. Premiums: £50 in each case. Conditions and entry forms from Rev. W. J. Samuel, General Secretary, 38, Dunraven Place, Bridgend. Entries to be submitted between June 5 and 14. JUNE 5-14

Art Competition and Exhibition of the XIV Olympiad, London, 1948. Designs eligible: (a) Town planning, (b) Architect-

tural designs. Entries will be limited to designs for sports grounds and to buildings intended for use in connection with sport only, and must be received between May 1 and June 11, 1948. Full particulars from the Organising Committee for the XIV Olympiad, London, 1948, 105, Victoria Street, London, S.W.1.

Buildings Illustrated

LCC Flats at Bethnal Green. (Pages 391-393.) Architect: C. H. Walker, Director of Housing. General Contractor: Holland & Hannen & Cubitt. Sub-contractors: asphalt, The General Asphalt Co.; electrical work and plumbing, Engineering Service Installations, Ltd.; glazing, Faulkner Greene & Co., Ltd.; painting, Clark & Fenn, Ltd.; plastering, C. Constance, Ltd.; scaffolding, Scaffolding (Great Britain), Ltd.; steel reinforcement specialists, The Rom River Co., Ltd.; tiling (roof), J. J. Etridge, Junr., Ltd.; W.I. gates and railings, S. W. Farmer & Son, Ltd.; cast stone, Malcolm McLeod & Co., Ltd.; ironmongery, Comyn Ching & Co.; joinery, Rippers, Ltd.; metal windows, Crittall Manufacturing Co., Ltd.; sand and shingle, Willmet Bros.; wood-wool, Gyproc Products, Ltd.

Correction

The names of the architects for the Shop at Bournemouth, published in our issue for April 22, should have been given as Pakington and Enthoven, F.F.R.I.B.A., in association with G. I. C. Highest, F.R.I.B.A.

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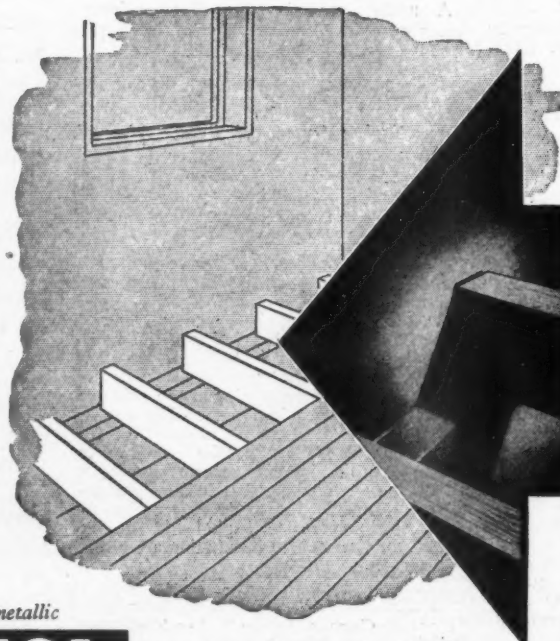
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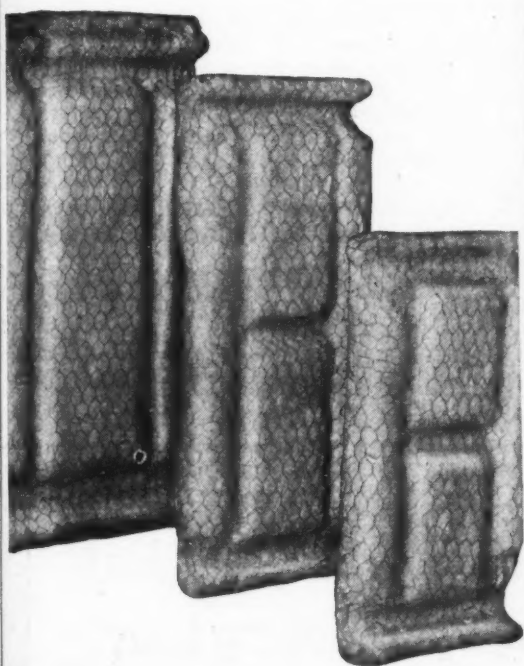


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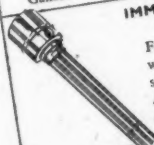
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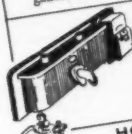
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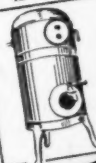
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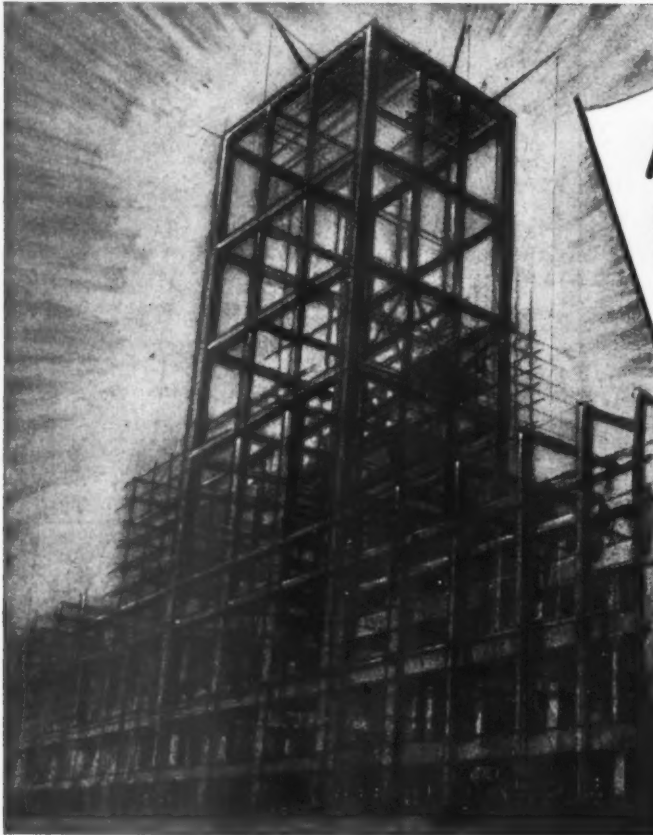


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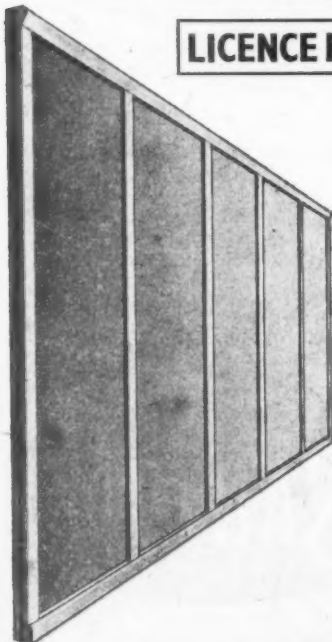
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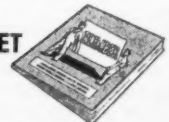
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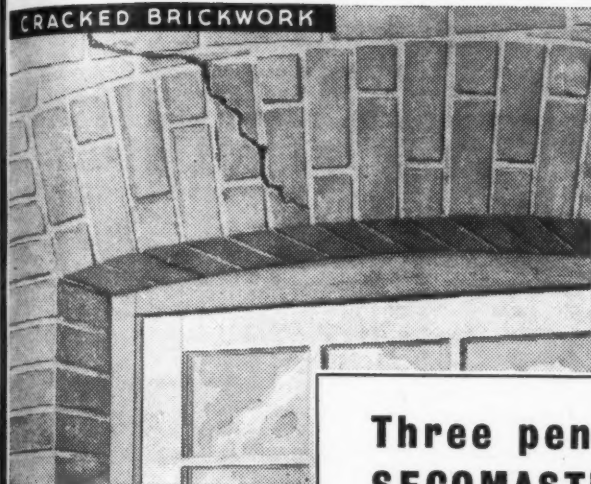


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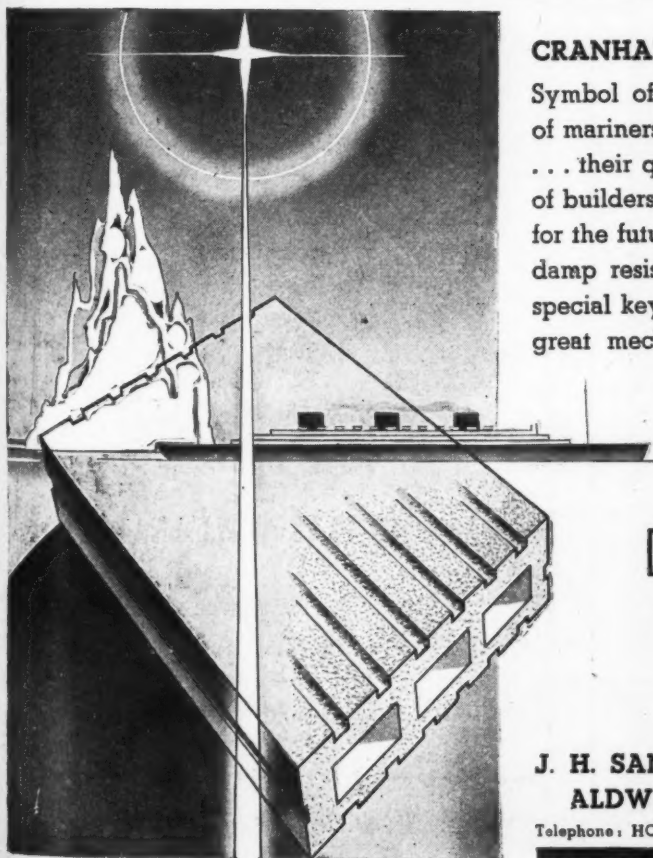
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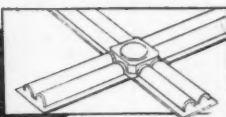


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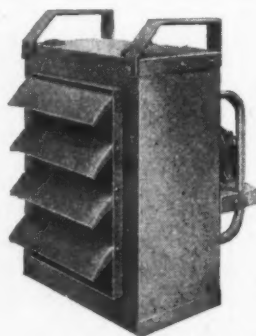
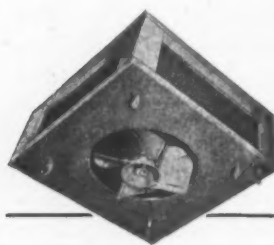
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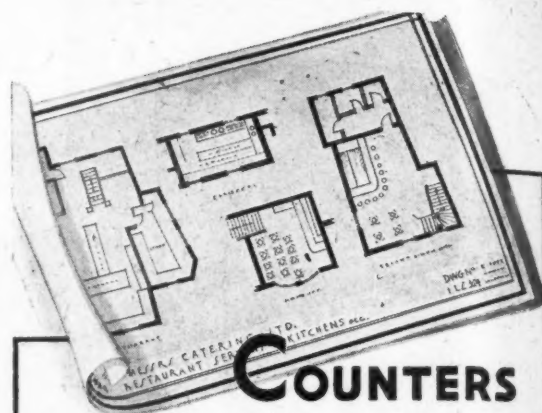
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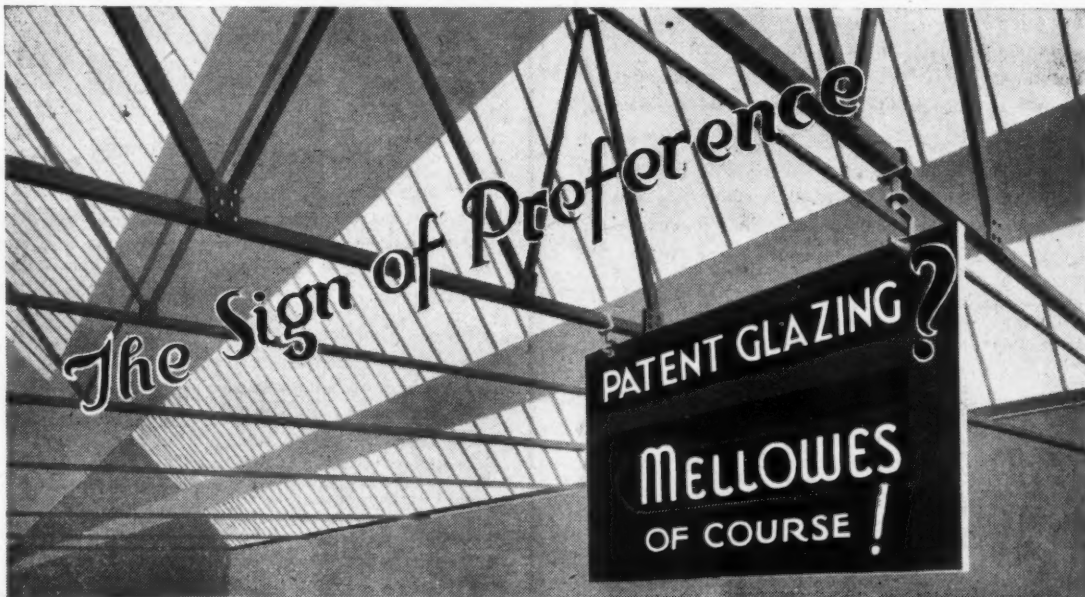
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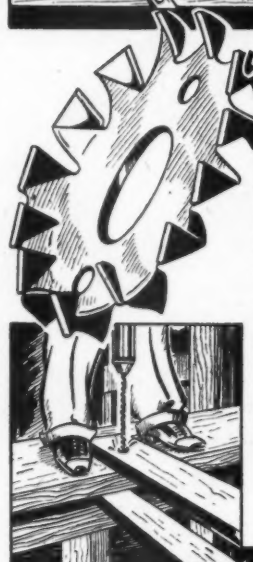
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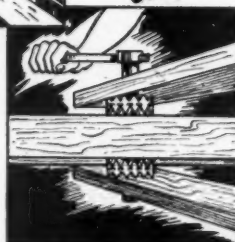
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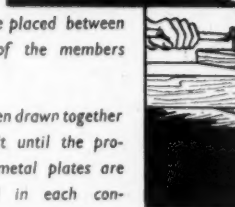
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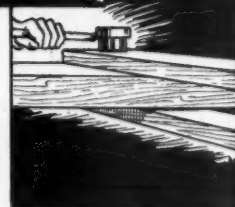
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(2) JUNIOR ARCHITECTURAL ASSISTANT. Salary, A.P.T., I or II (£390-£435 or £420-£465), depending on qualifications and experience.

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

(4) Applications, stating age, qualifications and experience, together with copies of not more than three recent testimonials, should be sent to the City Engineer, Guildhall, Bath, not later than 8th May, 1948.

J. BASIL OGDEN, Town Clerk.

Guildhall, Bath. 12th April, 1948. 681

BOROUGH OF SOUTHGATE. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant, on the Established Staff of the Borough Engineer and Surveyor.

The salary will be in accordance with Grade V of the A.P.T. Division of the National Joint Council Scales, namely £520-£570 per annum, plus £20 London weighting.

Applicants should be Associate Members of the Royal Institute of British Architects, or hold an equivalent qualification.

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

Candidates who to their knowledge are related to a member or senior officer of the Council must disclose the relationship in their application. Failure to do so will disqualify or render the candidate appointed liable to dismissal without notice.

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

Applications, stating (1) name and address; (2) age; (3) qualifications by examinations; (4) present position, salary and date appointed; (5) previous positions, with dates and salaries; (6) particulars of experience, accompanied by copies of three recent testimonials, should be sent to Mr. J. T. W. Peat, F.R.I.B.A., Borough Engineer and Surveyor, Southgate Town Hall, Palmers Green, London, N.13, in an envelope endorsed "Architectural Assistant," so as to reach him not later than 9 a.m. on Monday, 10th May, 1948.

GORDON H. TAYLOR, Town Clerk.

Southgate Town Hall, Palmers Green, London, N.13. 692

CITY OF CANTERBURY. SECOND ASSISTANT ARCHITECT.

Applications are invited for the appointment of Second Assistant Architect, in the City Architect's Department, at a salary in accordance with Grade A.P.T., IV, £480-£515 to £525.

Applicants must be R.I.B.A. and should have had experience of housing work. Town Planning experience is also desirable, but not essential. The successful candidate will be required to pass a medical examination.

Applications, giving age, full particulars of experience and qualifications, and the names of not more than three persons to whom reference may be made, should be received by Mr. L. Hugh Wilson, A.R.I.B.A., A.M.P.T.I., City Architect, not later than 7th May, 1948.

J. BOYLE, Town Clerk.

Municipal Buildings, Canterbury. 13th April, 1948. 685

LONDON COUNTY COUNCIL. VACANCIES FOR ARCHITECTURAL STAFF IN THE ARCHITECTS' DEPARTMENT.

Applications are invited for the following positions:—

ARCHITECTS. Grade III, £550-£25-£700 a year.

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

Commencing rates will be according to qualifications and experience.

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

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

Apply to the Architect (A), County Hall, Westminster Bridge, London, S.E.1, enclosing stamped addressed foolscap envelope (743). 523

LONDON COUNTY COUNCIL. EDUCATION OFFICER'S DEPARTMENT.

Applications are invited for appointment as SUPERVISORS of occupation centres, respectively for (i) mentally defective children aged 5 to 16 years, and (ii) mentally defective girls aged 16 and upwards, on a salary scale of £300-£25-£400; and also for ASSISTANT SUPERVISORS for both types of occupation centres, on a salary scale of £270-£10-£290. Supervisors are responsible for the organization and management of the centres, and Assistant Supervisors, under the direction of Supervisors, for the instruction and guidance of a small group of defectives.

Applicants should be able to take physical training and simple handicrafts, and candidates for positions with children aged 5 to 16 years should have a knowledge of infants' methods and ability to play the piano is desirable. For the elder girls' centres candidates should be able to teach also Needlework and Embroidery. The centres are open daily from 10 a.m. to 4 p.m. during normal school terms.

Applicants should state clearly for which of the three types of post they apply on application forms, obtainable with further particulars from the Education Officer (Estab. 2), The County Hall, London, S.E.1 (stamped addressed foolscap envelope necessary). Applications to be returned not later than 18th May. (1031) 738

THE UNIVERSITY OF LIVERPOOL. Applications are invited for the post of LECTURER (ungraded) in the Department of Civic Design, at a salary within the range £850-£1,050 per annum.

Applications, stating age, academic qualifications and experience, together with the names of three referees, should be received not later than 12th June, 1948, by the undersigned, from whom further particulars of the conditions of appointment may be obtained.

STANLEY DUMBELL, Registrar.

April, 1948. 734

BOROUGH OF TWICKENHAM. BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the following positions:—

(a) ONE SENIOR PLANNING ASSISTANT (ESTABLISHED).

Applicants must possess a recognized qualification in Town Planning, and be fully conversant with the Town and Country Planning Acts and Orders made thereunder, and should have had extensive experience in planning, preferably with a Municipal Authority.

(b) ONE ARCHITECTURAL ASSISTANT (TEMPORARY).

Applicants must have passed the Intermediate examination of the Royal Institute of British Architects, and it is desirable that applicants shall have had some experience with a Local Authority.

The National Joint Council's Scale of Salaries will apply, as follows:—

Post (a): Grade A.P.T., IV-V, £500-£15-£590.

Post (b): Grade A.P.T., III, £470-£15-£515.

The appointments are subject to the conditions of service laid down in the National Joint Council's Conditions of Service, and are subject to the provisions of the Local Government Superannuation Act, 1937. The successful candidates will be required to pass a medical examination, and the appointments are subject to one month's notice on either side.

Applications, stating age, qualifications, experience, present and past appointments, and indicating which post is being applied for, should be forwarded, with copies of three recent testimonials, to Mr. A. S. Knowles, B.Sc., M.I.C.E., Borough Engineer, Municipal Offices, Twickenham, not later than 15th May, 1948.

Canvassing, either directly or indirectly, will disqualify.

W. H. JONES, Town Clerk.

Municipal Offices, Twickenham. April, 1948. 735

LISBURN RURAL DISTRICT COUNCIL. APPOINTMENT OF SURVEYOR.

Applications are invited for the position of Full-time SURVEYOR to the Lisburn Rural District Council, at a salary of £600 per annum, rising by annual increments of £20 to a maximum of £700 per annum. In addition a cost-of-living bonus (at present £90 per annum) will be payable, plus Civil Service scale of travelling expenses.

In the case of candidates possessing special qualifications and/or experience consideration will be given to a higher salary.

Applicants must be Corporate Members of the Institution of Civil Engineers and/or the Institution of Municipal Engineers, or be in possession of an approved equivalent qualification. Applicants should, in addition, have had considerable experience of Waterworks, Sewerage and Sewage Disposal Works, Housing and General Construction.

The appointment will be subject to the approval of the Ministry of Health and Local Government for Northern Ireland, and preference will be given to ex-Service applicants possessing the required qualifications, provided that the Council is satisfied that applicants can, or within a reasonable time, will be able to fill the position efficiently. The successful applicant will be required to furnish satisfactory evidence of health and take up duty on appointment.

A copy of the terms and conditions of appointment may be obtained on application from the undersigned.

Applications, stating age, qualifications, experience, and particulars of present and past appointments, together with copies of recent testimonials, will be accepted by the undersigned up to 12 noon on Tuesday, 25th May, 1948.

(By Order) J. M. SHIRLEY, Clerk of Council.

Rural District Council Offices, Lisburn. 19th April, 1948. 733

BERKSHIRE COUNTY COUNCIL. PLANNING ASSISTANT (Grade III), in the County Planning Department. Salary, A.P.T., Grade III (£450-£495 per annum).

Applicants should have passed the Intermediate examination of the Town Planning Institute, and have a good knowledge of modern planning technique and its application.

Forms of application obtainable by sending stamped addressed envelope to the County Planning Officer, 6 and 7, Abbot's Walk, Reading, to whom completed application forms must be delivered not later than 14th May, 1948.

H. J. C. NEOBARD, Clerk of the County Council.

Shire Hall, Reading. 718

**CUMBERLAND COUNTY COUNCIL.
BUILDINGS INSPECTOR.**

Applications are invited from duly qualified persons for the appointment of a Buildings Inspector, in the County Architect's Department, for the Workington district.

The appointed person will be required to live in or near Workington.

The salary will be in accordance with Grade III of the A.P. & T. Division of the National Scales of Salaries, £450, rising subject to satisfactory service to £495 by annual increments of £15.

The appointment will be subject to the Local Government Superannuation Act, 1937, and the person appointed will be required to pass a medical examination. The appointment will be terminable by one month's notice on either side.

Applicants must have had practical experience of building, supervision of building work and maintenance of property, and should be able to prepare reports. Previous experience with a public authority is desirable. The person appointed will be required to provide a motor car, and an allowance will be paid in accordance with the Council's scale (8 h.p.) for the time being in force.

Forms of application may be obtained from the County Architect, 4, Alfred Street North, Carlisle, and should be completed and returned to him, accompanied by copies of three recent testimonials, not later than Monday, 10th May, 1948.

G. N. C. SWIFT,

Clerk of the County Council.

20th April, 1948.

752

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

Applications are invited for the following appointments, on the staff of the City Engineer and Surveyor:—

(a) ARCHITECTURAL ASSISTANT (ONE). Grade III, A.P.T., i.e., consolidated salary £450, rising by annual increments of £495 (Schools).

(b) ARCHITECTURAL ASSISTANTS (TWO). Grade II, A.P.T., i.e., consolidated salary £420, rising by annual increments to £465 (Housing).

(c) ASSISTANT QUANTITY SURVEYOR (ONE). Grade IV, A.P.T., i.e., consolidated salary £480, rising by annual increments to £525 (Schools).

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

Applicants for appointment (c) should be capable of abstracting, billing and measurement of works on site. Experience in fixed fee contracts will be considered an advantage.

The City Council have adopted the National Scheme of Conditions of Service. The appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and the successful applicants will be required to pass a medical examination. Applications, stating age, qualifications and experience, accompanied by copies of not more than three recent testimonials, and suitably endorsed, must be delivered to the undersigned not later than Friday, 14th May, 1948.

Applicants must disclose whether they are related to any Senior Official or Member of the Authority. Canvassing, either directly or indirectly, will be deemed a disqualification.

ARTHUR J. REEVES,

Town Clerk.

Town Hall, Peterborough.

April, 1948.

750

**NEWPORT PAGNELL RURAL DISTRICT
COUNCIL.****APPOINTMENT OF ARCHITECT.**

Applications are invited for the appointment of Architect, to superintend this Council's building programme.

The appointment will be a whole time one and will be temporary in the first instance.

The salary will be in accordance with Grade V(a) of the National Scale (viz., £550 per annum, rising to £610 per annum, subject to satisfactory service).

Housing accommodation will be made available. The Officer appointed must provide his own car, towards which the Council will pay an allowance in accordance with the said National Scale.

Applicants must be Registered Architects, and should have passed the Final Examination of the Royal Institute of British Architects or hold an equivalent qualification, and have had experience of the design and execution of Housing schemes for a Local Authority as required by the Ministry of Health.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and will be terminable by three months' notice on either side.

Applications, stating age, qualifications, present and past appointments, and full details of experience, together with copies of three recent testimonials, must be sent to the undersigned not later than Monday, 10th day of May, 1948, endorsed "Housing Architect."

E. STAPLETON,

Clerk of the Council.

Council Offices, 7, Station Road, Newport

Pagnell, Bletchley, Bucks.

29th April, 1948.

747

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

Applications are invited from Qualified Members of the Royal Institute of British Architects for the whole time appointment of ASSISTANT ARCHITECT, in the County Architect's office. The salary will be in accordance with Grade V of the Consolidated National Scales, viz., £520 per annum, rising to a maximum of £570 per annum.

The appointment is superannuable, and subject to medical examination, and terminable by one month's notice on either side.

Applications, on forms to be obtained from the County Architect, must be sent to the undersigned within two weeks of the date of the publication of this advertisement.

P. A. SELBORNE STRINGER,

Clerk of the County Council.

County Hall, Trowbridge.

22nd April, 1948.

761

**CITY OF WAKEFIELD.
CITY ENGINEER'S DEPARTMENT.
APPOINTMENT OF ARCHITECTURAL ASSISTANT (GRADE IV).**

Applications are invited for the appointment of Architectural Assistant, in the City Engineer's Department, at a salary in accordance with Grade IV (£480-£525), and commencing at £510 per annum.

Preference will be given to candidates who are Associates of the Royal Institute of British Architects and who have had experience in school design and construction.

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

Applications, endorsed "Architectural Assistant," stating age, qualifications, present and previous appointments and experience, and accompanied by copies of two recent testimonials, should reach the undersigned not later than Saturday, the 8th May, 1948.

Candidates should state in writing whether to their knowledge they are related to any member or senior official of the Corporation. Canvassing will be a disqualification.

W. S. DES FORGES,

Town Clerk.

Town Hall, Wakefield.

20th April, 1948.

759

**BOROUGH OF MAIDENHEAD.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT.**

Applications are invited for the appointment of Architectural Assistant, in the Borough Engineer and Surveyor's Department. Salary in accordance with Grade IV (£480-£515-£525) of the National Scheme of Conditions of Service.

Applicants should have had considerable experience in the design and construction of buildings. Preference will be given to candidates who have passed a recognized professional examination, preferably of the R.I.B.A.

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

Applications, stating age, previous appointments, qualifications, and experience, together with copies of three recent testimonials, are to be delivered to the Borough Engineer and Surveyor, Mr. C. T. Read, A.M.I.C.E., F.R.I.C.S., endorsed Architectural Assistant, not later than 14th May, 1948.

The Council may be in a position to offer housing accommodation to the person appointed if he should be married.

J. A. BAIRD,

Town Clerk.

Guildhall, Maidenhead.

757

**BOROUGH OF MAIDENHEAD.
APPOINTMENT OF ASSISTANT QUANTITY
SURVEYOR.**

Applications are invited for the appointment of Assistant Quantity Surveyor, in the Borough Engineer and Surveyor's Department, in accordance with Grade IV of the National Scheme of Conditions of Service (£480-£515-£525).

Applicants should have had considerable experience in preparing Bills of Quantities and Contract Documents, and in the checking of builders' accounts and measuring of works in progress. Preference will be given to candidates who have passed a recognized professional examination, preferably of the R.I.C.S.

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

Applications, stating age, previous appointments, qualifications, and experience, together with copies of three recent testimonials, are to be delivered to the Borough Engineer and Surveyor, Mr. C. T. Read, A.M.I.C.E., F.R.I.C.S., endorsed "Assistant Quantity Surveyor," not later than 14th May, 1948.

The Council may be in a position to offer housing accommodation to the person appointed if he should be married.

J. A. BAIRD,

Town Clerk.

Guildhall, Maidenhead.

756

CROWN AGENTS FOR THE COLONIES.

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

QUANTITY SURVEYOR (Temporary) required by Government of Jamaica, Public Works Department, for three years in first instance. Salary, £350 a year. Free passages. Candidates should be Chartered Quantity Surveyors, and be thoroughly experienced in Quantity Surveying in all its aspects. They must be capable of teaching Junior staff in the work. Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper, to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/17667/3D on both letter and envelope.

755

**HALTEMPRICE URBAN DISTRICT COUNCIL.
APPOINTMENT OF ASSISTANT ARCHITECT.**

Applications are invited for the appointment of Assistant Architect, in the Engineer and Surveyor's Department of the above Council.

The salary payable will be assessed according to the qualifications and experience of the successful applicant, and will be within one of the Grades A.P.T., VI, VII or VIII (salary, £595-£660, £635-£710, £685-£760) of the J.P.C. scale of salaries.

Candidates must be suitably qualified and have had experience in housing; ability to prepare Bills of Quantities will be an advantage.

The appointment will be subject to the Conditions of Service prescribed by the Joint Provincial Council and to the Local Government Superannuation Act, 1937, and the successful candidate will be required satisfactorily to pass a medical examination. The appointment will be subject to termination by one month's notice on either side.

Forms of application may be obtained from the Engineer and Surveyor, Anlaby House, Anlaby, E. Yorks, and must be returned to the undersigned not later than noon on the 10th May, 1948.

A. B. GLASSPOOL,

Clerk of the Council.

Anlaby House, Anlaby, E. Yorks.

763

**WILTSHIRE COUNTY COUNCIL.
PROPOSED ERECTION OF COUNTY
GRAMMAR SCHOOL, HEADLANDS
AVENUE, SWINDON.**

Applications are invited from Building Contractors who are desirous of Tendering for the Erection of the above School, comprising approximately 1,105,000 cub. ft.

The School will be carried out with a steel framework, having brick walling with stone dressings, precast concrete floors and pitched roofs, together with roads, drains and the preliminary layout of Playing Fields.

Contractors should give details of available labour force, plant and organization, with particulars of any similar work done by them.

Applications to tender should be received by the undersigned not later than 12th May, 1948.

The Council reserves to itself the right to select from the list of applications received those firms who will be invited to submit competitive tenders. Bills of Quantities will be distributed to the selected Contractors at the end of May, 1948.

F. I. BOWDEN, A.R.I.B.A.,

County Architect.

County Architect's Department, County

Hall, Trowbridge.

21st April, 1948.

762

**CITY OF LEEDS.
CITY ARCHITECT'S DEPARTMENT.**

Applications are invited for the following appointments:—

(a) ASSISTANT QUANTITY SURVEYOR. Consolidated salary scale £520, rising to £660 p.a.

Candidates must be qualified to prepare Bills of Quantities, and finalise accounts for all classes of building works. Pre-war experience is essential.

(b) ASSISTANT QUANTITY SURVEYORS. Consolidated salary scale £450, rising to £525 p.a.

Candidates must be capable of "working up" Bills of Quantities in all trades and have had experience in "taking off." Pre-war experience is essential.

(c) ASSISTANT QUANTITY SURVEYORS. Consolidated salary scale £450, rising to £495 p.a.

Candidates must be capable of "working up" Bills of Quantities in all trades.

In each case the payment of salary increments will be subject to satisfactory service, and will be granted normally with effect from the 1st April following the completion of 6 months' service.

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

Applications, on forms to be obtained from the undersigned, accompanied by copies of not more than three recent testimonials (not returnable), must be received by me in the envelope supplied therefore not later than 10 a.m. on Saturday, the 8th May, 1948.

Canvassing in any form, either directly or indirectly, will be a disqualification.

R. A. H. LIVETT, O.B.E., A.R.I.B.A.,

City Architect.

Priestley House, Quarry Hill, Leeds. 9.

April, 1948.

753

NORTHERN POLYTECHNIC, HOLLOWAY, N.7.

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

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

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

R. H. CURRELL,

Clerk.
714LONDON COUNTY COUNCIL.
QUALIFYING EXAMINATION FOR THE
OFFICE OF DISTRICT SURVEYOR.

Formal notice is hereby given that the next examination of persons desirous of obtaining a Certificate of Proficiency to perform the duties of the office of District Surveyor will be conducted in London in week commencing 18th October, 1948, by the Board established by the London County Council in accordance with Section 77 of the London Building Acts (Amendment) Act, 1939. The minimum age limit for candidates is 25.

Possession of this certificate carries eligibility to compete for appointment to vacant positions as District Surveyor, at maximum salaries ranging from £1,200 to £1,800 a year (inclusive), or as Assistant District Surveyor (salary scale, £840 to £960 a year).

It is intended to hold subsequent examinations annually.

For regulations governing candidature, the syllabus, and application forms for the examination, or for any further information, apply to the Architect to the Council, County Hall, Westminster Bridge, S.E.1. Persons who have already asked for forms of application need not re-apply. (1027) 737

COUNTY COUNCIL OF THE COUNTY OF
LANARK.

TOWN PLANNING.

Applications are invited for the following appointments on the Town and Country Planning Staff:—

(a) ASSISTANT TOWN PLANNING ENGINEER. Salary scale, £650—£225—£750, plus £60 bonus per annum.

Candidates must possess one or more of the following qualifications:—

University Degree in Civil Engineering or Architecture, A.M.I.C.E., A.M.I.Mun.E., A.R.I.C.S., A.R.I.B.A., A.M.T.P.I. They must also have a wide practical experience in the preparation of planning schemes for rural and populous areas, and have a thorough knowledge of the various Acts and Orders related to Town and Country Planning.

(b) ASSISTANT TOWN PLANNING ENGINEER. Salary scale, £650—£225—£750, plus £60 bonus per annum.

Candidates should possess at least one of the qualifications listed under appointment (a), and must also have a wide experience of administration of applications under Interim Development Orders; and have a thorough knowledge of the various Acts and Orders related to Town and Country Planning.

(c) TWO SENIOR TOWN PLANNING ASSISTANTS. Salary scale, £635 to £600 in three annual increments, plus £60 bonus per annum.

Candidates must possess at least one of the qualifications listed under appointment (a), and should also have a sound experience in planning practice and related statutes.

(d) (i) TWO PLANNING ASSISTANTS. Salary scale, £420—£15—£465, plus £60 bonus per annum.

(ii) TWO PLANNING ASSISTANTS. Salary scale, £390—£15—£435, plus £60 bonus per annum.

(iii) TWO PLANNING ASSISTANTS. Salary scale, £360—£15—£405, plus £60 bonus per annum.

(iv) PLANNING ASSISTANT. Salary scale, £330—£15—£375, plus £60 bonus per annum.

Candidates should have passed the Intermediate examination of one of the Institutions mentioned in (a), and preference will be given to those having previous planning experience.

(e) JUNIOR PLANNING ASSISTANT. Salary, £300, plus £60 bonus per annum.

All the above appointments are on the permanent staff of the Council, and are subject to the provisions of the Local Government Superannuation (Scotland) Act, 1937. Successful candidates will have to pass a medical examination.

Applications, giving full particulars of qualifications and experience, should be forwarded to the County Town Planning Engineer, County Offices, 19, Auchingrampart Road, Hamilton, to be received not later than 15th May, 1948. The post applied for should be clearly indicated. Envelopes should be endorsed "Planning Staff." Canvassing will be a disqualification.

WM. C. BROWNIE,

County Clerk.

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

721

NORTHERN POLYTECHNIC, HOLLOWAY, N.7.

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

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

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

R. H. CURRELL,

Clerk.
713COUNTY OF LINCOLN—PARTS OF
KESTEVEN.KESTEVEN TRAINING COLLEGE, STOKE
ROCHFORD, NEAR GRANTHAM, Lincs.

The County Council is proposing to carry out ALTERATIONS to STOKE ROCHFORD HALL and OUTBUILDINGS, for use as a Teachers' Training College, and invite firms to indicate their willingness to submit Tenders for building work if selected to do so.

Applications in connection with the above should be submitted to L. D. Tomlinson, F.R.I.B.A., Architect, Quadrant Arcade, Romford, Essex, not later than the 7th May, 1948. Selected firms will be supplied with Form of Tender and Bills of Quantities. Tenders must be delivered not later than the 23rd May 1948, and should be addressed to the undersigned in plain, sealed envelopes endorsed "Tender—Stoke Rochford Hall." The envelopes must not bear any mark or name indicating the sender.

Bills of Quantities are now in course of preparation, but at least a fortnight will be allowed to selected contractors for the preparation of Tenders. Drawings and conditions of contract may be inspected at these Offices.

Any contract entered into shall comply with the Standing Orders of the County Council, and the Council does not bind itself to accept the lowest or any Tender.

J. E. BLOW,

Clerk of the County Council.
County Offices, Sleaford, Lincs.
17th April, 1948. 739KINGSTON-UPON-HULL EDUCATION
AUTHORITY.

COLLEGE OF ART AND CRAFTS.

SCHOOL OF ARCHITECTURE

(Recognized by the R.I.B.A.).

Required, as soon as possible, a SENIOR ASSISTANT LECTURER in Architecture. Candidates should possess a Degree or Diploma of a recognized School of Architecture, and be qualified to undertake some lectures and some supervision of students' work in connection with the Five Year Diploma Course. Permission to engage in private practice is normally granted to members of the College staff.

Salary, £700×£25 to £800 (men) or £560×£20 to £640 (women), with additional allowances for training and degree.

Particulars of appointment and application forms (to be returned within 14 days of the date of this issue) can be obtained on receipt of a stamped, addressed, foolscap envelope from the Director of Education, Guildhall, Kingston-upon-Hull. 716

EAST RIDING COUNTY COUNCIL.

Applications are invited for the following appointments on the permanent staff of the County Architect's Department:—

ASSISTANT ARCHITECTS. Grades IV to VI. The salary range is £480-£660, and each suitable applicant will be appointed to the grade appropriate to his qualifications and experience. Provision is made for progress between grades within the groups dependent upon satisfactory service.

The Authority's building programme includes Schools, County Colleges, Police Housing, Fire Stations, Health Centres and Homes for aged persons.

Applicants should have had satisfactory experience in the design and construction of modern buildings, and preference will be given to those who have appropriate professional qualifications.

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

Applications, stating age, training, qualifications, experience and details of past and present appointments, with salary, accompanied by copies of three recent testimonials, are to reach K. F. Girard, A.R.I.B.A., A.M.T.P.I., County Architect, County Hall, Beverley, not later than 7th May, 1948.

T. STEPHENSON,

Clerk of the County Council.
County Hall, Beverley.
April, 1948. 722COUNTY BOROUGH OF WEST BROMWICH.
BOROUGH SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments in the Borough Surveyor's Department:—

(a) ONE SENIOR ASSISTANT ARCHITECT, at a salary in accordance with A.P.T., Grade VI (£595-£660).

(b) TWO ARCHITECTURAL ASSISTANTS, at salaries in accordance with A.P.T., Grade IV (£480-£525).

(c) ONE ARCHITECTURAL ASSISTANT, at a salary in accordance with A.P.T., Grade II (£420-£465).

The appointments may be made at a point within the scales, according to qualifications and experience.

Applicants must be registered Architects, and preference will be given to Associate Members of the Royal Institute of British Architects.

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

Applications, appropriately endorsed, stating age, qualifications, experience, present and past appointments, together with the names of two persons to whom reference may be made, should be delivered to the Borough Engineer and Surveyor, Town Hall, West Bromwich, not later than the 10th May, 1948.

H. SCHOFIELD, B.Sc.(Eng.), A.M.I.C.E.,

Borough Engineer and Surveyor,
Town Hall, West Bromwich.
15th April, 1948. 715HERTFORDSHIRE COUNTY COUNCIL.
APPOINTMENT OF DEPUTY COUNTY
ARCHITECT.

Applications are invited for the appointment of Deputy County Architect, at a salary of £1,100×£50 to £1,250 per annum. The commencing salary to be fixed in accordance with the qualifications and experience of the successful applicant.

Administrative experience and qualifications of leadership are essential to the post, and previous Local Government or similar experience is desirable, but not essential.

Applicants should state age, qualifications (one of which must be membership of the R.I.B.A.), and details of previous experience.

The successful candidate must provide and maintain a motor car, the standard allowance in accordance with the County Council's Scale being paid, and he must be prepared to reside within a reasonable distance of Hertford.

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

The appointment will be determinable by 3 months' notice on either side.

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

No forms of application are being issued, but the applications, together with three references, should be addressed to C. H. Aslin, F.R.I.B.A., M.I.Struct.E., County Architect, County Hall, Hertford, Herts., not later than the first post on 15th May, 1948. 723

MIDDLESEX COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.

Applications invited for the following appointments:—

(a) DEPUTY COUNTY PLANNING OFFICER, on the scale £950×£50 to £1,250 p.a., inclusive. Experience and ability determine commencing salary. Should be Member or Associate Member of Town Planning Institute, preferably with additional qualifications, with extensive knowledge of modern practice and of proved administrative ability.

(b) AREA PLANNING OFFICER, on the scale £850×£50 to £1,100 p.a., inclusive. Experience and ability determine commencing salary. Special responsibilities of development, control, survey and planning in portion of county allotted and, on behalf of the County Planning Officer, responsible to the Area Planning Committees concerned. Staff provided for each area. Required to work with the County Planning Officer in the planning of the county generally. Should be Member or Associate Member of the Town Planning Institute, preferably with additional qualifications, with good experience of town planning, design and administration and of collaboration with Borough and Urban District Councils.

(c) CHIEF PLANNING ASSISTANTS. A.P.T., Grade VII (consolidated salary, £655×£25—£730 p.a., inclusive). To be in charge of Area Staffs under Area Planning Officers, and engaged particularly upon development control in consultation with the authorities affected, and upon local survey and planning. Should be Associate Members of Town Planning Institute, with good experience of interim development control.

Established and pensionable, subject to medical examination. Applications with details age, experience, qualifications, etc., with copies of three recent testimonials, to the undersigned by 10th May (quoting E88 AJ).

C. W. RADCLIFFE,

Clerk of the County Council.
Middlesex Guildhall, S.W.1. 719

AYR COUNTY COUNCIL.
VACANCIES FOR TECHNICAL STAFF.
 Applications are invited for the following appointments on the staff of the County Council, County Buildings, Ayr.

COUNTY PLANNING DEPARTMENT.
(a) DEPUTY COUNTY PLANNING OFFICER.
 Salary scale, £575-£650 per annum (A.P.T. Division, Grade VII, of J.I.C. National Scale) plus war bonus of £60 per annum. Preference will be given to candidates who possess at least one or more of the following qualifications:—University Degree in Civil Engineering or Architecture, A.M.I.C.E.; A.M.I.Mun.E.; P.A.S.I.; A.R.I.B.A.; A.M.T.P.I. Applicants must also have a wide practical experience in the preparation of planning schemes for rural and populous areas, and should have a thorough knowledge of the administration of the various Acts and Orders dealing with Town Planning and Restriction of Ribbon Development.

(b) TWO DISTRICT PLANNING OFFICERS.
 Salary scale, £535-£600 per annum (A.P.T., VI), plus war bonus of £60 per annum. Preference will be given to candidates who possess one or more of the qualifications mentioned in (a) above, and applicants should also have a sound practical experience in planning work and in the operation of the relevant statutes. The persons appointed will be responsible for the collection of data and the preparation of planning proposals for defined areas in the County.

(c) TWO PLANNING ASSISTANTS. Salary scale, £390-£510 per annum (A.P.T., III and V), plus war bonus of £60 per annum. Candidates must have had previous satisfactory experience in planning work, and preference will be given to those who possess one of the qualifications mentioned in (a) above.

(d) ONE PLANNING ASSISTANT. Salary scale, £330-£375 per annum (A.P.T., I), plus war bonus of £60 per annum. Preference will be given to candidates who have passed the Intermediate examination of one of the professional institutions mentioned in (a) above, and previous planning experience will also be an advantage. Applicants should also be good draughtsmen and be experienced in surveying and levelling.

(e) ONE TECHNICAL ASSISTANT (aged 20 or over). Salary scale, £125 to £300 per annum (plus war bonus of £60 per annum), with placing within the scale in accordance with age and experience. Candidates must have had some previous experience as a draughtsman, preferably in a Local Government office.

COUNTY MEASURER'S DEPARTMENT.
(a) ONE QUANTITY SURVEYOR. Salary scale, £390-£510 per annum (A.P.T., III and V), plus war bonus of £60 per annum. Candidates should preferably hold appropriate professional qualifications, and must have had experience in the preparation of bills of quantities, specifications, estimates, and settlement of final measurements in connection with housing and general building works.

(b) ONE JUNIOR QUANTITY SURVEYOR.
 Applicants must have had a good general training, and should be studying with a view to obtaining professional qualifications. If the successful applicant has passed the Intermediate examination of the C.S.I. his salary will commence on the scale of £330-£375 per annum, but if not yet in possession of this qualification he will be placed according to age and experience on the scale of £145 to £300 per annum (plus war bonus of £60 per annum in either case).

COUNTY ARCHITECT'S DEPARTMENT.
ONE JUNIOR ARCHITECTURAL DRAUGHTSMAN. Applicants should preferably have had experience in housing work, and must be studying with a view to obtaining the R.I.B.A. qualification. If the successful candidate has passed the Intermediate examination of the R.I.B.A. his salary will commence on the scale of £330-£375 per annum, but if not yet in possession of this qualification he will be placed according to age and experience on the scale of £145 to £300 per annum (plus war bonus of £60 per annum in either case).

All the above appointments are on the permanent staff of the Council, and will be subject to the provisions of the Local Government Superannuation (Scotland) Act, 1937.

Forms of application and further particulars of each appointment may be obtained from the County Clerk, County Buildings, Ayr, with whom applications must be lodged not later than Monday, 24th May, 1948. Intending applicants should clearly endorse their request for forms with a description of the post in which they are interested. Canvassing, directly or indirectly, will be a disqualification.

MIDDLESEX COUNTY COUNCIL.
 Registered ARCHITECTURAL ASSISTANTS required in Hospital Section of County Architect's Dept., Grades II, IV and V (combined). £440 to £590 p.a., inclusive. Qualifications and experience determine commencing salary. State commencing salary required. Established and pensionable subject to medical examination. Applications, giving full details of qualifications, age, experience, etc., to County Architect, Middlesex House, 20, Vauxhall Bridge Road, S.W.1, within 10 days (quoting E.87 A.J.).

C. W. RADCLIFFE,
 Clerk of the County Council.
 Middlesex Guildhall, S.W.1. 720

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

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT, Grade A.P.T., I, National Consolidated Scale, £390-£435 per annum.

Candidates should have good architectural training and experience, preferably in housing and other Municipal building works, and hold the recognized professional qualifications. The appointment will be subject to:—

(1) To the conditions of the service of the National Joint Council for Local Authorities', Administrative, Professional, Technical and Clerical Services.

(2) To the Local Government Superannuation Act, 1937.

(3) To the successful candidate passing a medical examination.

Applications, stating age, qualifications and experience, together with copies of three recent testimonials, and disclosing whether, to their knowledge, they are related to any member of the Council or the holder of any senior office under the Council, should be delivered to the undersigned not later than the 12th May, 1948.

A. CULWICK,
 Town Clerk.
 Municipal Buildings, Oldbury.
 April, 1948. 746

COUNTY BOROUGH OF OLDHAM.
APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANTS.

Applications are invited for the following appointments in my department:—

(a) ONE SENIOR ARCHITECTURAL ASSISTANT. The salary will be at the rate of £520 to £570 per annum, being Grade V of the National Scale of Salaries.

(b) ONE SENIOR ARCHITECTURAL ASSISTANT. The salary will be at the rate of £480 to £525 per annum, being Grade IV of the National Scale of Salaries.

Housing accommodation will be provided if necessary.

Candidates for (a) should hold a recognized architectural qualification, and a Town Planning qualification would be an advantage. They should also have had comprehensive experience in design and construction.

Candidates for (b) must be neat and capable draughtsmen, competent to prepare working drawings, take out quantities, and prepare estimates. They should possess a recognized architectural qualification.

The appointments will be subject to the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination. Conditions relating to the appointments can be obtained from the undersigned.

Applications, stating age and previous appointments, in addition to qualifications and experience, and copies of three recent testimonials, must reach the undersigned not later than Monday, the 10th May, 1948, in envelopes endorsed in accordance with (a) or (b).

A. L. HOBSON,
 Borough Engineer and Surveyor.
 Municipal Buildings, 75 Union Street,
 Oldham.
 20th April, 1948. 729

YIEWSLEY AND WEST DRAYTON U.D.C.
APPOINTMENTS ARE INVITED FOR THE APPOINTMENT OF AN ARCHITECTURAL ASSISTANT (Permanent),

at a salary in accordance with A.P.T., Grade II (£420-£465, plus £20 London weighting).

Preference will be given to candidates holding R.I.B.A. qualifications and with housing and general Municipal experience.

Applications, stating age, qualifications and experience, and giving the names of two referees, should be endorsed "Architectural Assistant," and forwarded to the Engineer and Surveyor, not later than Monday, 10th May, 1948.

A. C. KENNEDY,
 Clerk of the Council.
 Council Offices, Yiewsley, Middlesex. 741

CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.
APPOINTMENT OF DEPUTY CITY ARCHITECT.

Applications are invited for the appointment of Deputy City Architect, at a salary of £960 per annum, rising by annual increments of £60 to £1,080 per annum, plus £59 15s. per annum cost-of-living bonus.

Applicants must be members of the Royal Institute of British Architects, and should have had wide experience of the architectural work of a local authority, including Housing, Hospital and Educational buildings.

The appointment will be subject to the National Conditions of Service as adopted by the City Council: to the provisions of the Local Government Superannuation Act, 1937, and to 3 months' notice on either side. The successful candidate will be required to pass a medical examination.

Forms of application may be obtained on application to the City Architect, 12, Cloth Market, Newcastle-upon-Tyne, 1, to whom they must be returned, endorsed "Deputy City Architect," on or before the 15th May, 1948.

Canvassing in any form will be a disqualification.

JOHN ATKINSON,
 Town Clerk.
 Town Hall, Newcastle-upon-Tyne, 1. 744

CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) CHIEF ASSISTANT ARCHITECT (GENERAL SECTION).

Salary, £800 per annum, rising by annual increments of £50 to £900 per annum, plus cost-of-living bonus, £59 15s.

Applicants must be members of the R.I.B.A., and must have had professional and administrative experience in local government as well as wide experience in carrying out general architectural work.

(b) CHIEF ASSISTANT ARCHITECT (HOUSING SECTION).

Salary, £750 per annum, rising by annual increments of £50 to £850 per annum, plus cost-of-living bonus, £59 15s.

Applicants must be members of the R.I.B.A. They must have had extensive experience in house design, planning, and the layout, supervision and administration of large scale housing schemes. Candidates should preferably possess a recognized qualification in Town Planning.

(c) CONTRACTS OFFICER AND CHIEF SURVEYOR.

Salary, £750 per annum, rising by annual increments of £50 to £850 per annum, plus cost-of-living bonus, £59 15s.

The officer appointed to this post will control the whole quantity surveying staff.

Applicants must be Fellows or Professional Associates (Quantities Sub-division) of the Royal Institute of Chartered Surveyors, and must have had extensive experience in the administration of Contracts, and the preparation of bills of quantities, specifications, and schedules of work carried out by Local Authorities, including the measurement, adjustment, and preparation of interim and final accounts.

Applicants should be competent estimators and possess a thorough knowledge of constructional detail and methods. Previous experience in the conduct of direct labour schemes is desirable.

The appointments will be subject to the National Conditions of Service as adopted by the City Council; to the provisions of the Local Government Superannuation Act, 1937, and to 3 months' notice on either side. The successful candidates will be required to pass a medical examination.

Applications, stating age, particulars of education and training, qualifications, experience, present and previous appointments, together with copies of two recent testimonials, and names and addresses of two persons to whom reference may be made, should be received by the City Architect, 12, Cloth Market, Newcastle-upon-Tyne, 1, not later than 15th May, 1948.

JOHN ATKINSON,
 Town Clerk.
 Town Hall, Newcastle-upon-Tyne, 1. 743

SURREY COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the post of PRINCIPAL ASSISTANT ARCHITECT. Commencing salary will be £800, rising by annual increments of £25 to a maximum of £900 per annum, inclusive.

Applicants must hold either a degree in Architecture or be Members of the Royal Institute of British Architects, and should have had good experience in the control of staff, organization of work, and had a good training and an adequate experience in the design and construction of modern buildings. This appointment will require a specialized knowledge of the design of school buildings.

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.

Applications, stating age, qualifications and 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 8th May, 1948.

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

The Council will be unable to provide any housing accommodation, and the successful applicant will be expected to make his own arrangements in this direction.

DUDLEY AUKLAND,
 Clerk of the Council.
 County Hall, Kingston-upon-Thames. 749

WALTHAM HOLY CROSS URBAN DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT.

Applications are invited from persons holding architectural qualifications for appointment as Architectural Assistant, in the Department of the Engineer and Surveyor.

The salary will be according to the National Scale, Grade V(a), A.P.T. (£570, rising to £630 per annum). It is anticipated that the work necessitating the appointment will last a minimum of two years.

Write to me immediately for further information about terms of appointment and rules governing applications.

H. J. CHAPMAN,
 Clerk of the Council.
 Town Hall, Waltham Abbey. 748

Amended Advert.

BINGLEY URBAN DISTRICT COUNCIL.
APPOINTMENT OF ARCHITECTURAL ASSISTANT.
Applications are invited for the permanent appointment of Architectural Assistant. Salary, Grade V, £520 per annum, rising by three annual increments to £570 per annum.
Candidates should have had considerable training and experience in housing design, development, and general architectural work. Preference will be given to candidates who have passed the examinations of the Royal Institute of British Architects.
The appointment will be terminable by one month's notice on either side, and subject to the provisions of the Local Government Superannuation Act, 1937.
Applications, stating age, qualifications, training and experience, and details of past and present appointments, accompanied by copies of three recent testimonials, should be forwarded, endorsed "Architectural Assistant," to the undersigned before the 18th May, 1948.
F. M. DUNWELL,
Clerk of the Council.
Town Hall, Bingley. 751

Tenders

6 lines, 10s.; each additional line, 1s. 6d.

BOROUGH OF LEOMINSTER.
The Council require a site to be cleared of six 17th century half-timbered Cottages, original tiling, tiles in good condition, and containing a fair amount of sound oak beams, joists and flooring. The cottages front on to a main road, with easy loading facilities.
Interested parties should contact the Borough Surveyor, Municipal Offices, Grange Court, Leominster, for full particulars. 717

Partnerships and Financial

6 lines or under, 10s.; each additional line, 1s. 6d.

PROSPECTIVE JUNIOR PARTNER
(Chartered Architect and/or Chartered Surveyor), age 30-40, required by City Firm of Architects, Surveyors and Valuers; must be experienced in Building, Surveying and Valuation of Urban Properties; commencing salary, £750 upwards, according to qualifications and experience. Write D.873, c/o Streets, 110, Old Broad Street, E.C.2. 706

CHARTERED ARCHITECT (F.R.I.B.A.), age 40, wishes to purchase partnership or practice, in South or South-West England; would consider accepting situation leading to partnership. Box 675.

Architectural Appointments Vacant

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

COMPETENT Qualified **ARCHITECTURAL ASSISTANT** required to work under Chief Assistant in extensive Norfolk practice; must be car driver and single for preference; also **JUNIOR ASSISTANTS**; salaries according to ability. Apply Box 608.

ARCHITECTURAL ASSISTANT required immediately in London office; must be good draughtsman, of intermediate standard; some experience of industrial buildings an advantage. Box 621.

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

LONDON, W.1.—Architects invite **SENIOR** and **JUNIOR ASSISTANTS** to contact them when available, as they have vacancies for permanent posts in a rapidly expanding office, in which ability and effort would be recognized. Details of salary, age, experience, to Box 667.

CENTRAL London Architects have immediate vacancies for **ASSISTANTS** (Male or Female), to augment their existing staff; ex-R.E. or other Services are particularly invited to reply; applicants should have up-to-date knowledge of the housing requirements of Ministries and Local Authorities; there is ample opportunity for advancement; salary according to results obtained. Full details of career and commencing salary required to Box 668.

SENIOR ASSISTANT required, with sound all-round ability, practical knowledge and experience, to be responsible for considerable varied work, with junior assistance. Replies by letter, with full particulars and salary required, to S. G. Scales, A.R.I.B.A., National Provincial Bank Chambers, Eastbourne. 698

ARCHITECT'S ASSISTANT required in Midlands Office. Must be quick and accurate draughtsman with experience in Industrial Buildings. Reply with full particulars, salary required, etc., to Box 661.

ARCHITECTURAL ASSISTANT required; R.I.B.A. Intermediate standard; good draughtsman. Apply, stating age, experience, and salary required, to Farmer & Dark, Chartered Architects, Terminal House, Grosvenor Gardens, London, S.W.1. 707

SAMUEL WILLIAMS & SONS, LTD. invite applications for the position of **ASSISTANT ARCHITECT** from Associates or Licentiate of the Royal Institute of British Architects; candidates should be first-class draughtsmen, with sound knowledge of the design and construction of industrial and commercial buildings and with experience of writing specifications; salary will be according to age, qualifications and experience, and applicants should write in the first place to the Personnel Manager, Samuel Williams & Sons, Ltd., Dagenham Dock Industrial Estate, Dagenham, Essex. 731

ARCHITECTURAL ASSISTANT required; capable of preparing working drawings and details from sketch plans; experience of modern hospital work desirable; Bloomsbury area; 5-day week. Write, stating age, experience, and salary required, Box 465, c/o 7, Coptic Street, W.C.1. 736

LARGE West End manufacturing company require a qualified **ARCHITECTURAL ASSISTANT**, aged between 25 and 35 years; must be A.R.I.B.A., and experienced in preparation of sketch plans, 1/4 in. scale working drawings, 1/2 in. and F.S. details, specifications, surveys, etc.; should have had about two years' experience in architect's office, and be able to supervise work in progress and prepare reports. Apply in writing, stating age, full particulars of experience, qualifications and salary required, to Box 725.

ARCHITECTURAL DRAUGHTSMAN required for service with large Industrial Concern operating in the Middle East; secondary school education; age not over 35; attractive salary, plus generous allowance in local currency, according to qualifications and experience; free furnished bachelor accommodation, medical attention, passage out and home; kit allowance. Apply, stating age and full details of qualifications and experience, quoting Dept. F.64, to Box 1169, at 191, Gresham House, E.C.2. 724



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ARCHITECT'S ASSISTANT wanted immediately in Torquay area practice; surveys, working drawings, quick draughtsman. Write, stating age, experience, salary required, Box 712.

ARCHITECTURAL ASSISTANT of Intermediate standard required for busy West End architects' office. Box 732.

SENIOR ASSISTANT required for varied practice; office experience essential. Kennington & Farms, F.A. and A.R.I.B.A., 130, Crawford Street, W.1. Welbeck 6543-4. 740

CITY Architect has vacancy for experienced ASSISTANT; salary offered, 10 guineas or less, according to experience. Written applications, giving age and full details of experience, to Box 754.

NORTHERN RHODESIA.—Qualified ARCHITECTS and ARCHITECTURAL DRAUGHTSMEN required by a prosperous firm of Architects in Northern Rhodesia. Salaries range from £600 to £940 per annum, according to ability, qualifications and experience, with possibility of an interest in the business if placed in charge of Branch Office. Applications should give full details of training and experience, age, marital state. Conditions in Northern Rhodesia can be obtained from Major H. K. McKee, Northern Rhodesia Representative, Palace Chambers, Bridge Street, Westminster, London. Replies to be sent by Air Mail to Lallemand & Williams, Chartered Architects, P.O. Box 105, Kitwe, Northern Rhodesia. 760

Architectural Appointments Wanted

QUALIFIED School-trained ASSISTANT (25) requires post in progressive London firm next May; 14 months' office experience. Box 66.

SOUTH SUFFOLK/ESSEX AREA.—ARCHITECT'S Assistant, car driver, 4 years' office experience in private practices, desires similar position; would accept nominal salary for post offering possibility of useful experience. Box 79.

ARCHITECT, A.R.I.B.A., with 16 years' experience, requires post in England or abroad with Government or private office or commercial firm; London experience in factory work, housing, civic buildings, also public works and in the academic side of architecture. Box 80.

ARCHITECT, with wide experience in all branches, including interior design and teaching, open to employment; London or provinces. Box 81.

Other Appointments Vacant

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

MANAGER for Joinery Works, South London; excellent opportunity for man with experience, character, a good record, and ability to accept responsibility for a busy works producing wide range of joinery; must be energetic, keen, and resourceful; replies treated with strict confidence; state salary required, present position, age, and previous positions. Box 583.

SHORTHAND-TYPIST SECRETARY required by London Architect engaged largely on technical correspondence education; a position with progressive possibilities. Box 728.

SECRETARY required; 9.30-4.30, 5 days a week; capable of taking responsibility for all administrative detail of small architectural practice; good typing; shorthand not essential; state salary required. Apply by letter only. Mrs. Tatton Brown, 57, Lansdowne Road, W.11. 711

Services Offered

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

PART-TIME Assistance given to Members of the Profession in London, Surrey, Sussex or Kent, by ex-Government Engineer and Surveyor; specializing in Land and Building Surveys; Dangerous and Defective Structures; Reinforced Concrete Design; own instruments and chainman. Box 616.

DUPLICATING.—Specifications, Bills of Quantities, etc., expertly typewritten or duplicated; moderate charges; qualified. Miss Stone, 6, Duke Street, S.W.1. Whitehall 9682. 681

RELIABLE SECRETARY SHORTHAND-TYPIST, just past Direction age, seeks re-engagement with Architect where living accommodation provided. Would housekeep for employer. Please write Box 666.

SPARE-TIME Assistance offered by young Assistant in London; working drawings; war damage schedules; specifications, etc. Box 742.

TYPING.—Specifications, Bills of Quantities, etc., accurately and speedily copied. Apply S., 233, Goldhurst Terrace, N.W.6 (MAL. 9579). 639

GENTLEMAN, with extensive experience in the Building Industry, and very large personal connection with Architects, Surveyors and Local Authorities, seeks appointment with progressive company desiring experienced representation. Box 54.

ARCHITECTURAL ASSISTANT will undertake perspectives in colour, monochrome, or pen and ink. Box 727.

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Miscellaneous

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

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ISOMETRIC, Logarithmic and Graph Sheets. Write for a "Chartwell" List. W. Heffer & Sons, Ltd., Dept. S.H., Cambridge.

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

R. I.B.A. AND T.P.I. EXAMINATIONS.—Mr. L. Stuart Stanley, M.A., F.R.I.B.A., Dist.T.P., M.T.P.I., Tutor in the Bartlett School of Architecture, London University, prepares candidates by correspondence tuition. 212, Euston Road, N.W.1. Tel.: EUSTON 7760.

THE FACULTY OF SURVEYORS OF ENGLAND.

NOTICE to Quantity Surveyors:—The next examination in Quantity Surveying will be held in London on June 3rd and 4th, 1948.

The Syllabus and Form of Application can be obtained on request from the Secretary, 5, Buckingham Palace Gardens, London, S.W.1. Closing date for receipt of completed form is 30th April, 1948. 965

One week specialized Course in Planning Administration under the 1947 Act: May 3rd-7th, 1948; fee, 3 guineas. Lecturers include J. W. R. Adams (Kent County Planning Officer); E. H. Doubleday (Herts. County Planning Officer); A. V. Williams (Town Clerk, Dudley County Borough), and officials from the Ministry of Town and Country Planning. Time Table on application to: The Secretary, School of Planning, 34, Gordon Square, London, W.C.1. EUSTON 2158-9. 753

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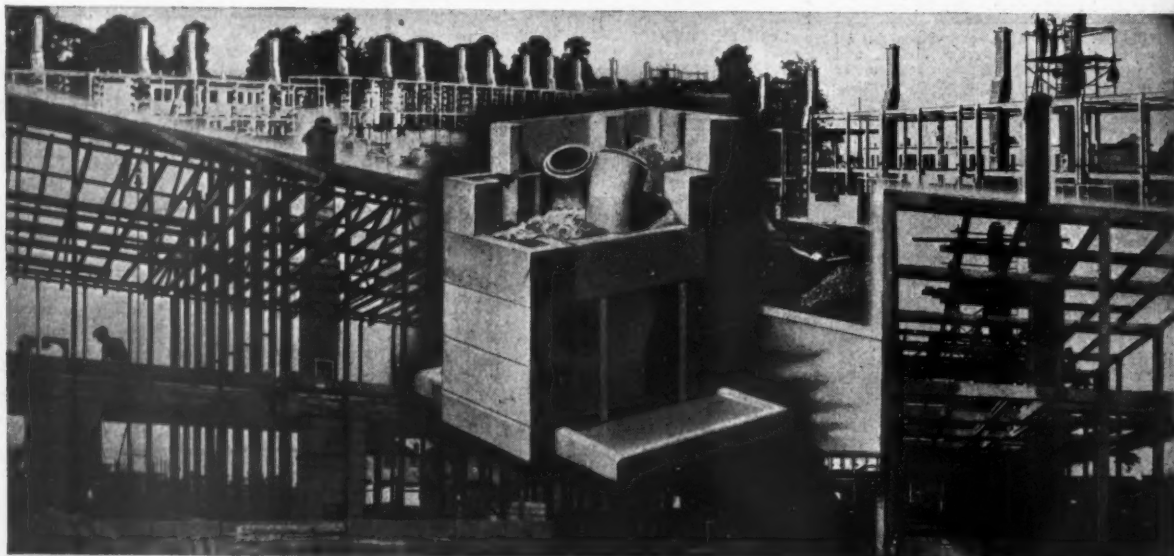
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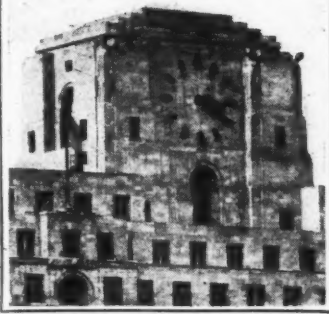
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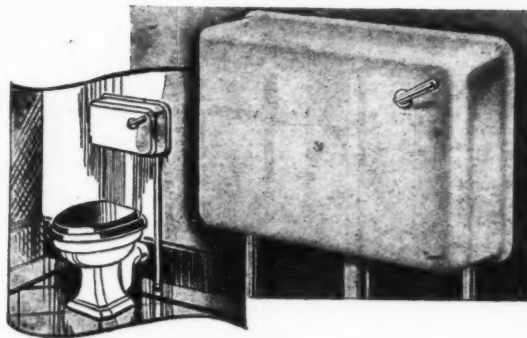
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