

THE ARCHITECTS' JOURNAL

STACK



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 Ic one week, Ie to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

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

No. 2852]

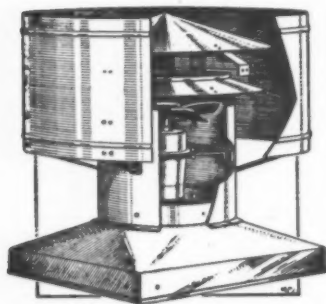
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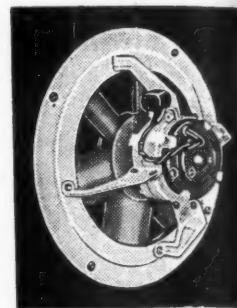
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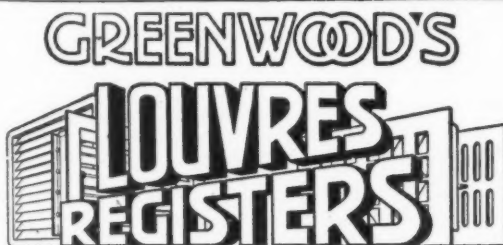
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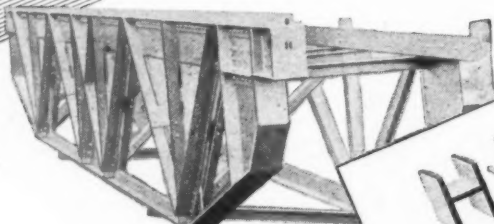
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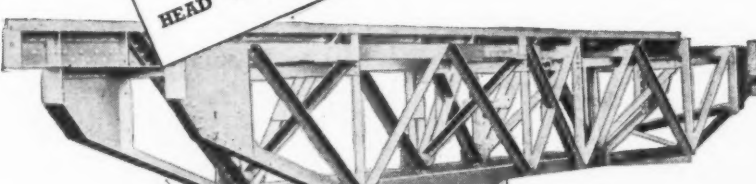
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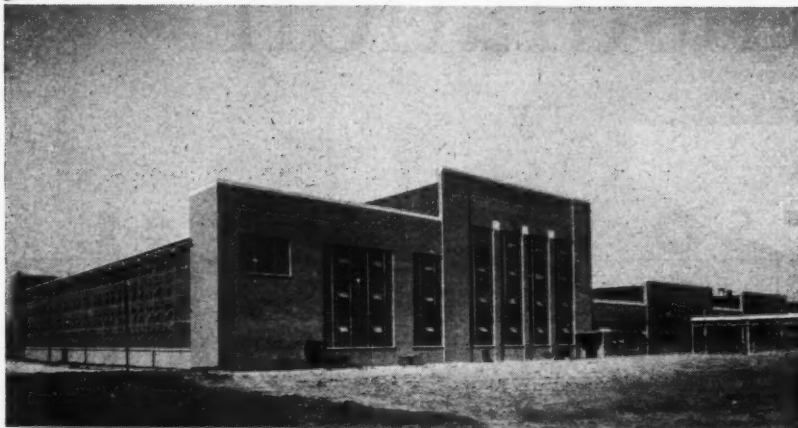


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K.A. ii

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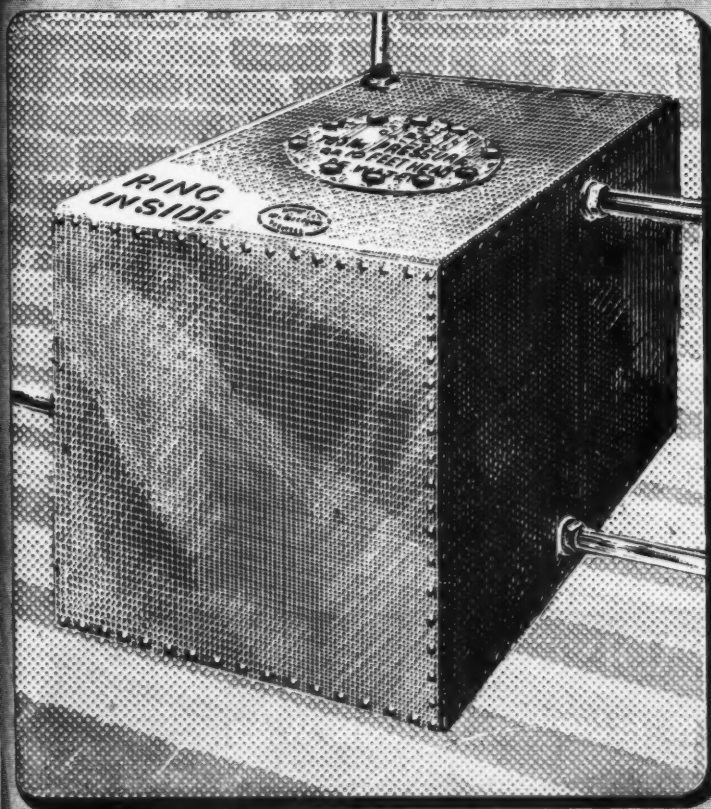
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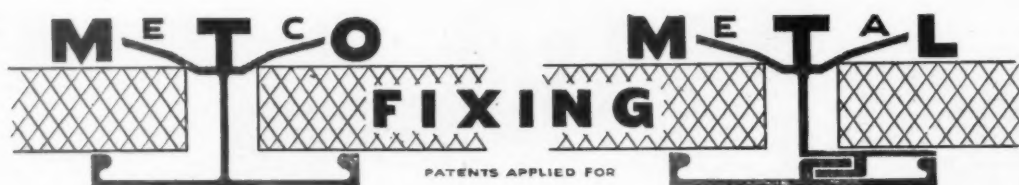
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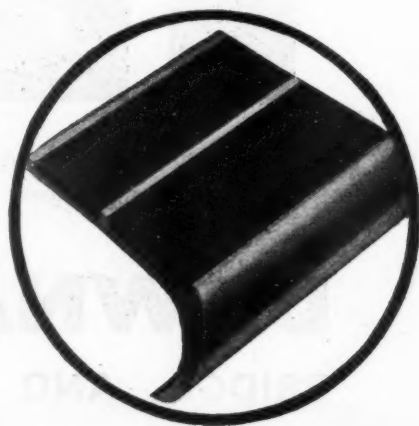
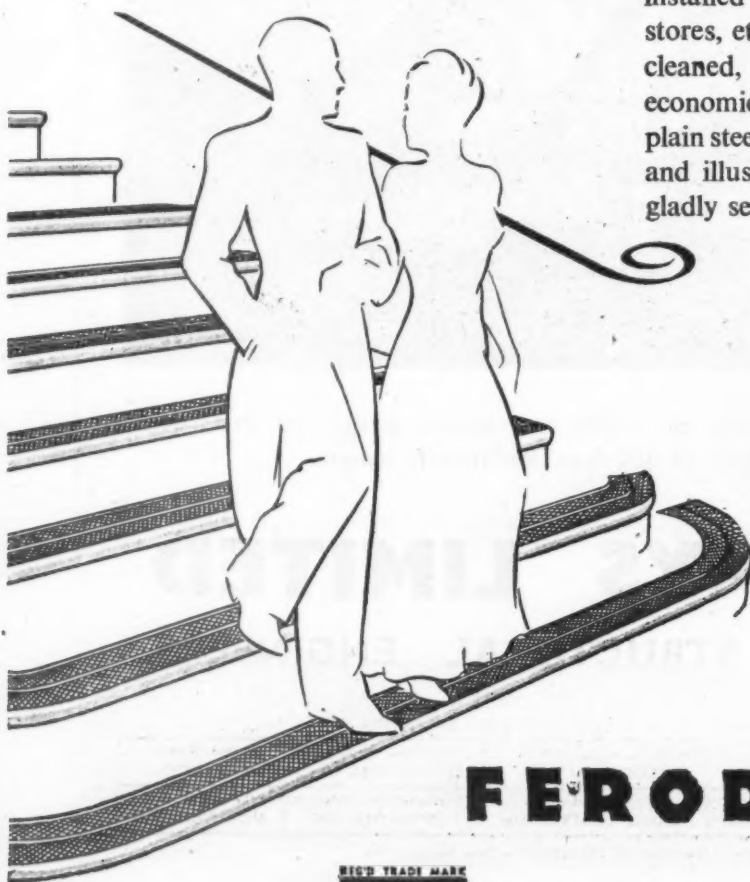
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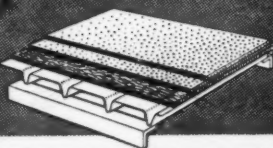
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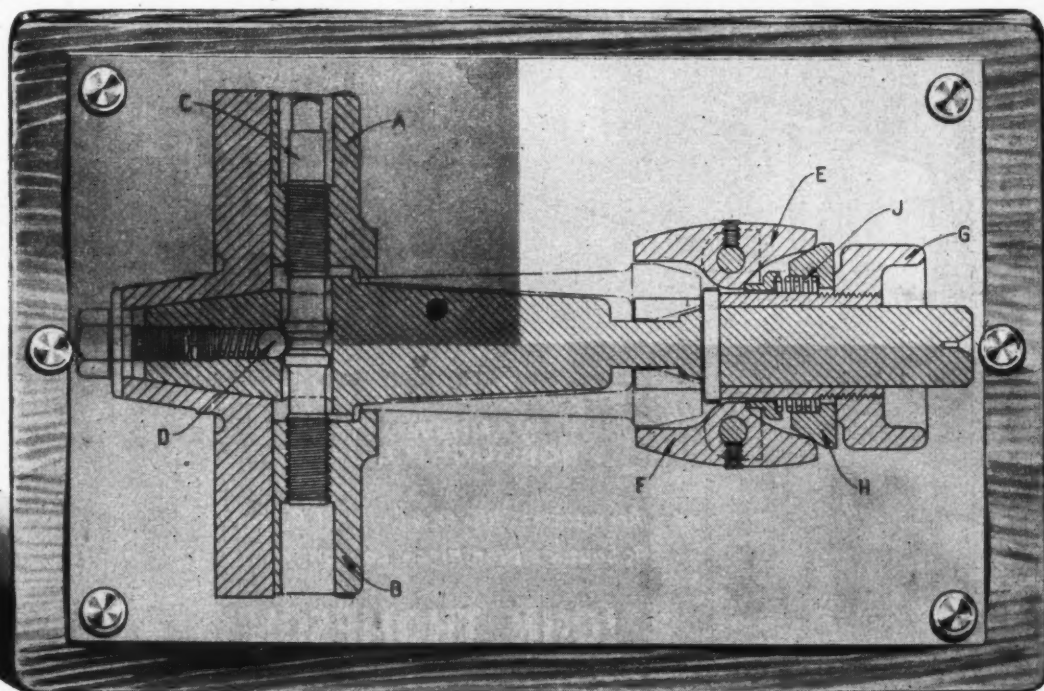
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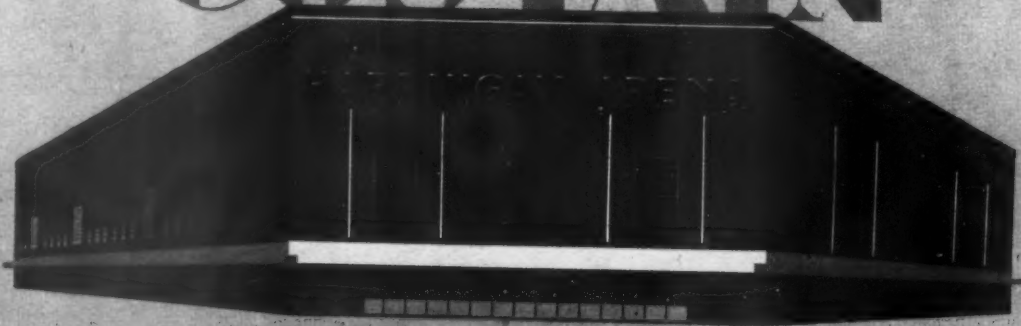
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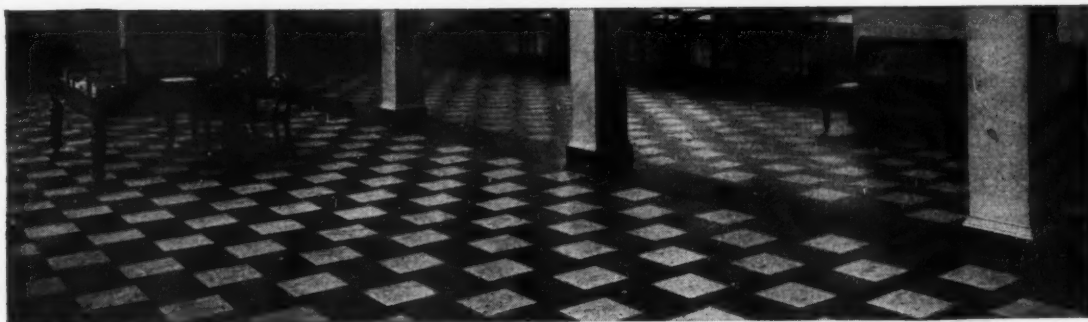
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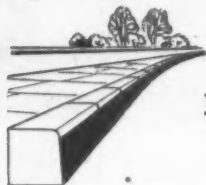
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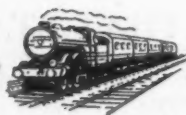
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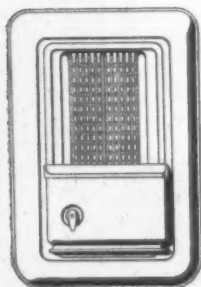
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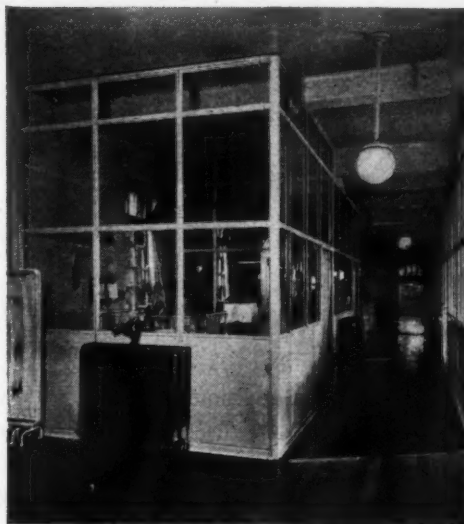
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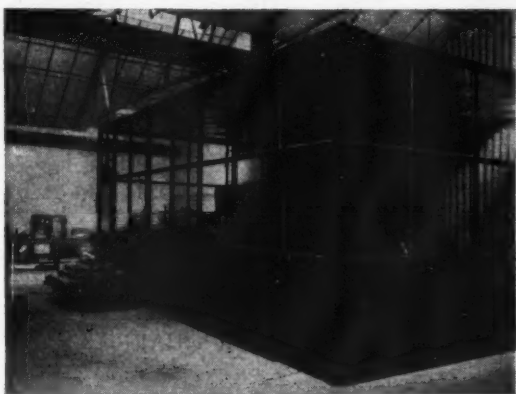
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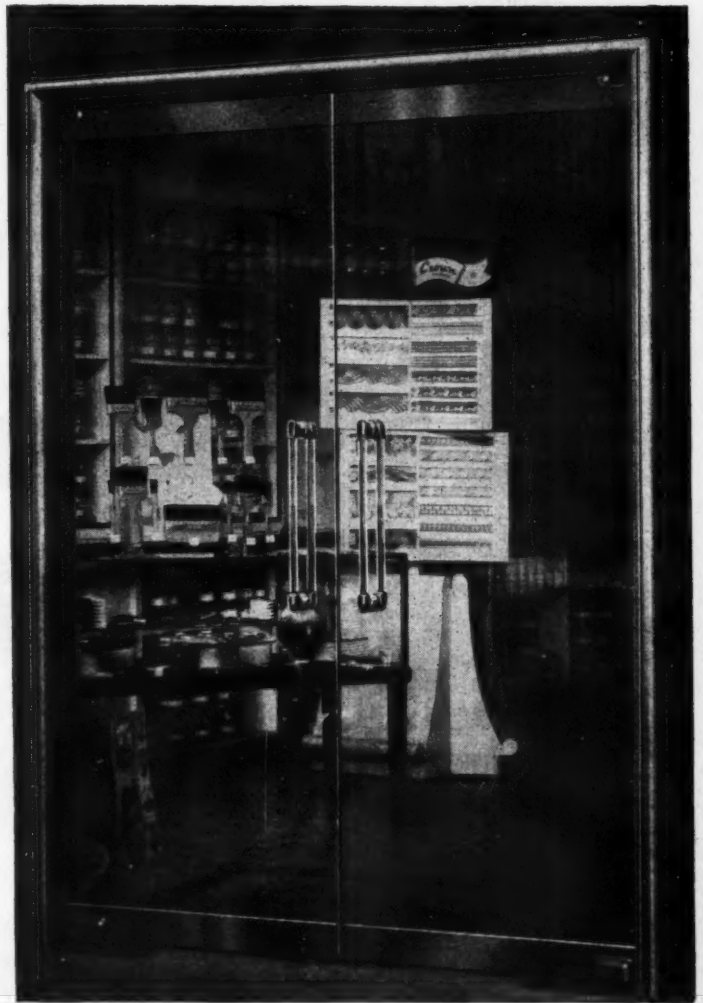
People from all nations thronged into London for the Great Exhibition. They returned home to praise British enterprise and industry, particularly with regard to the development of glass and glazing, of which the London shop fronts and the Crystal Palace furnished outstanding examples.



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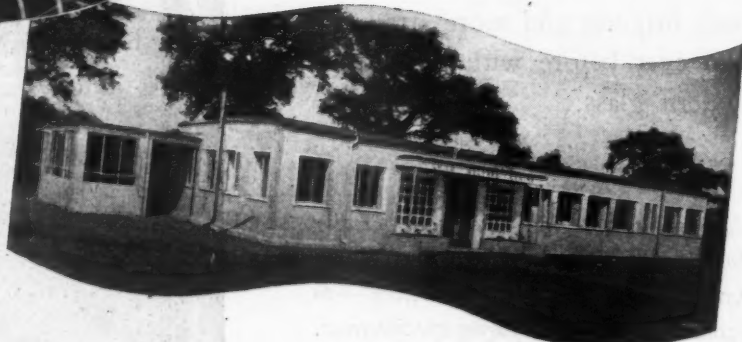
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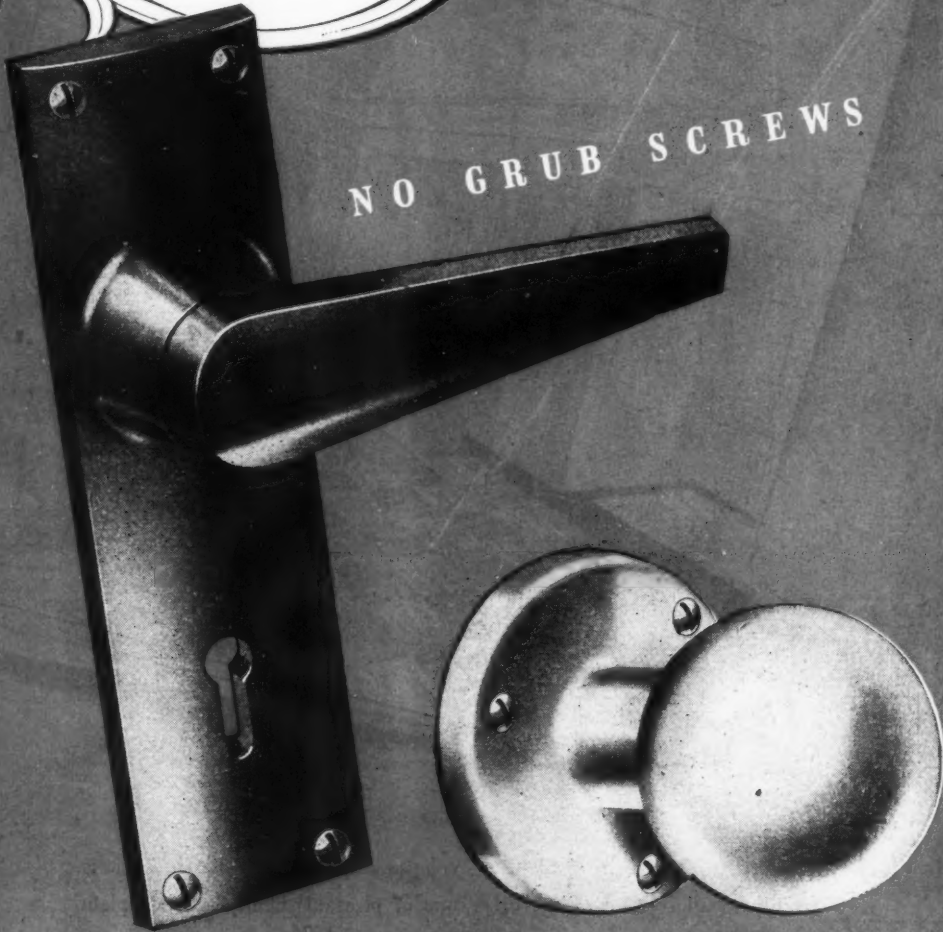
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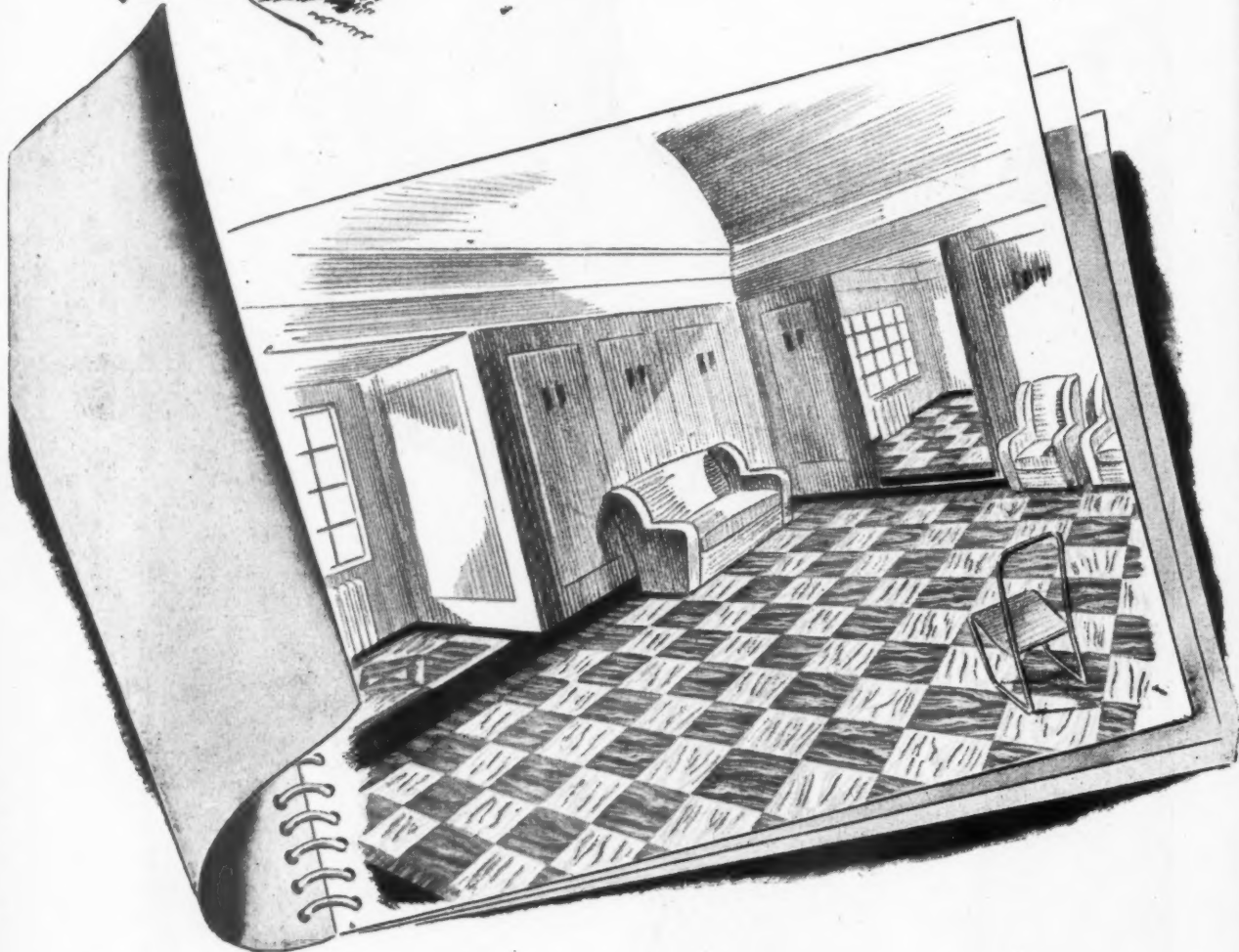
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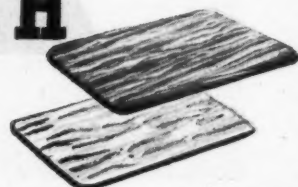
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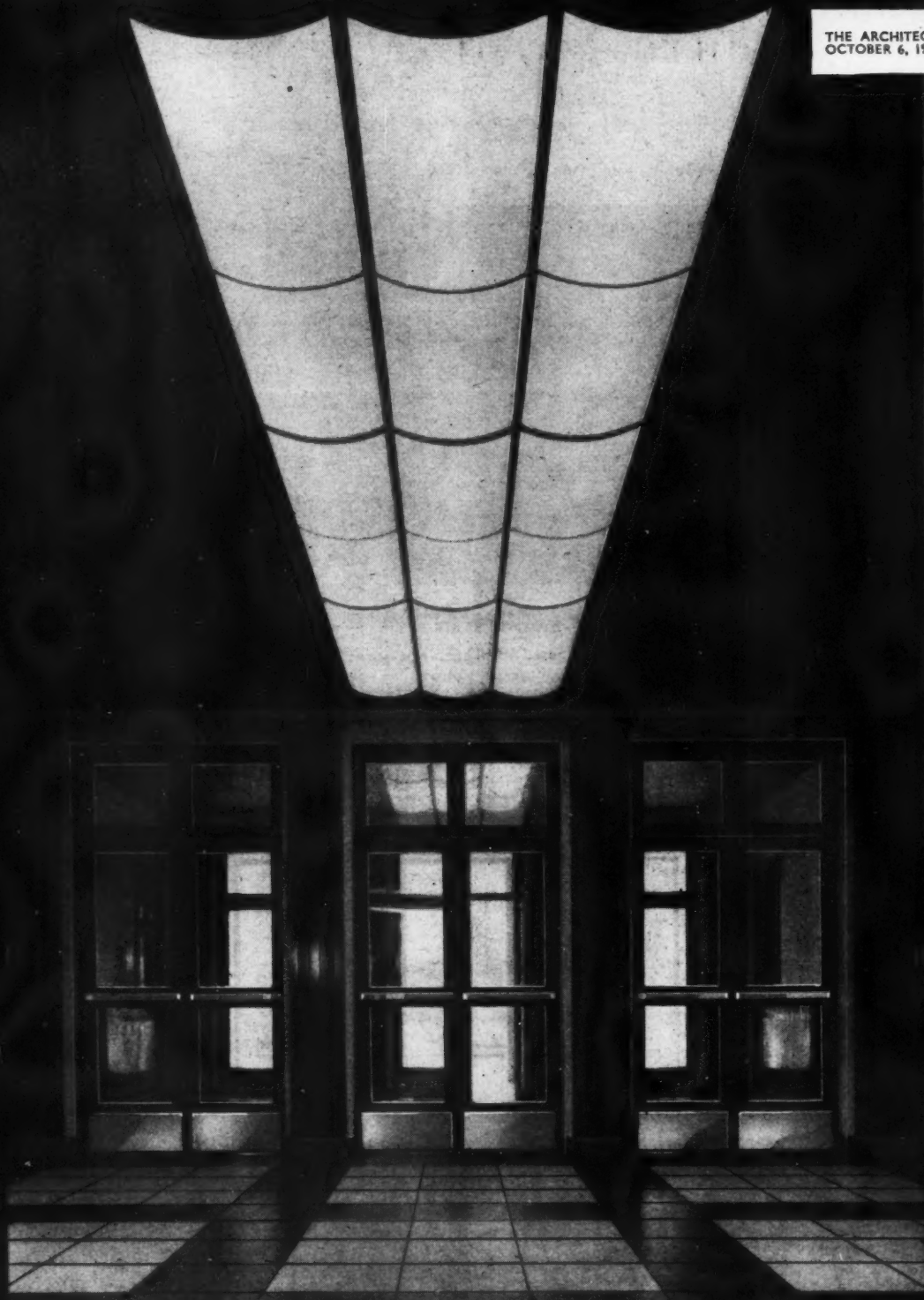
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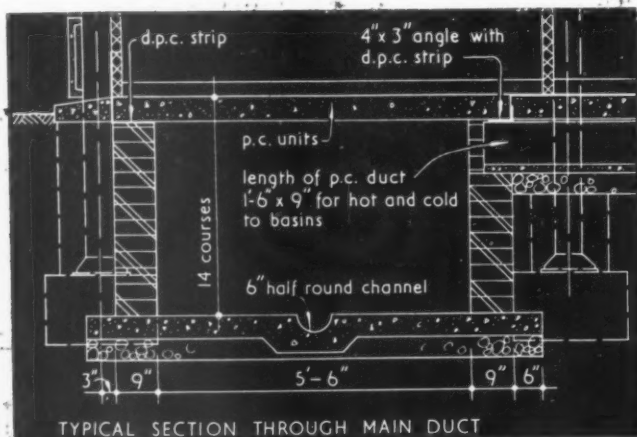
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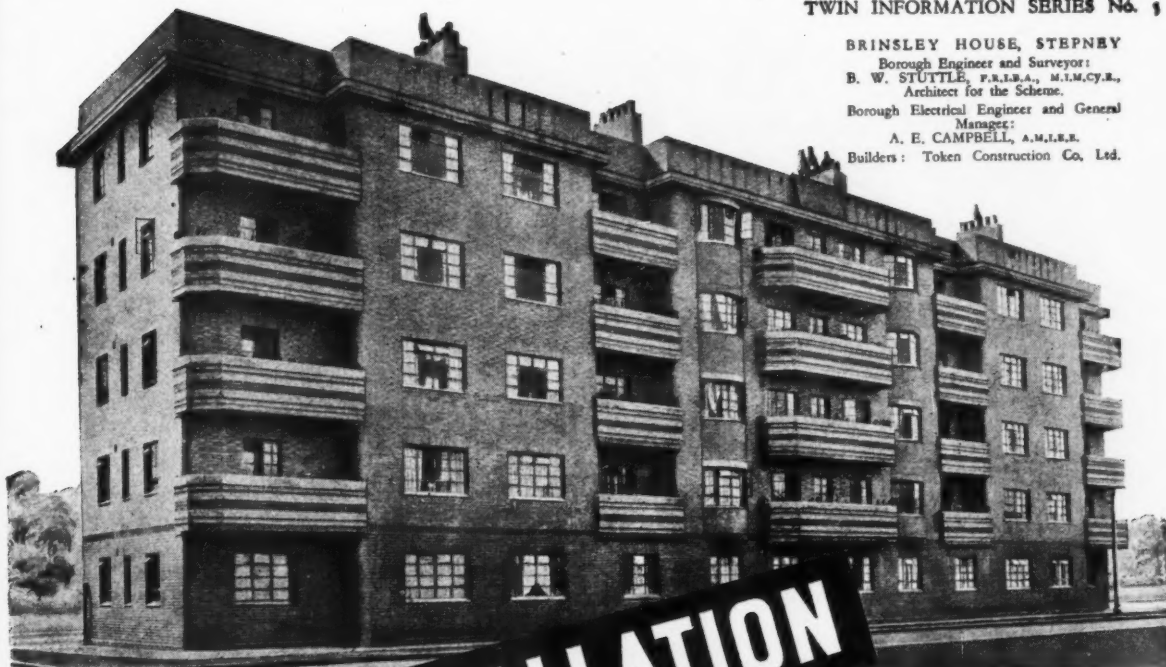
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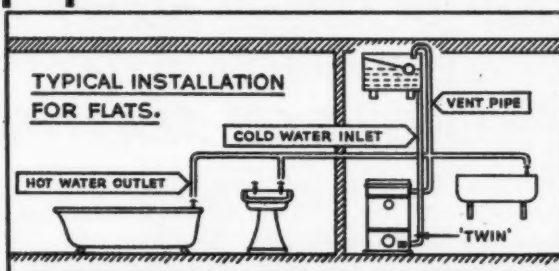


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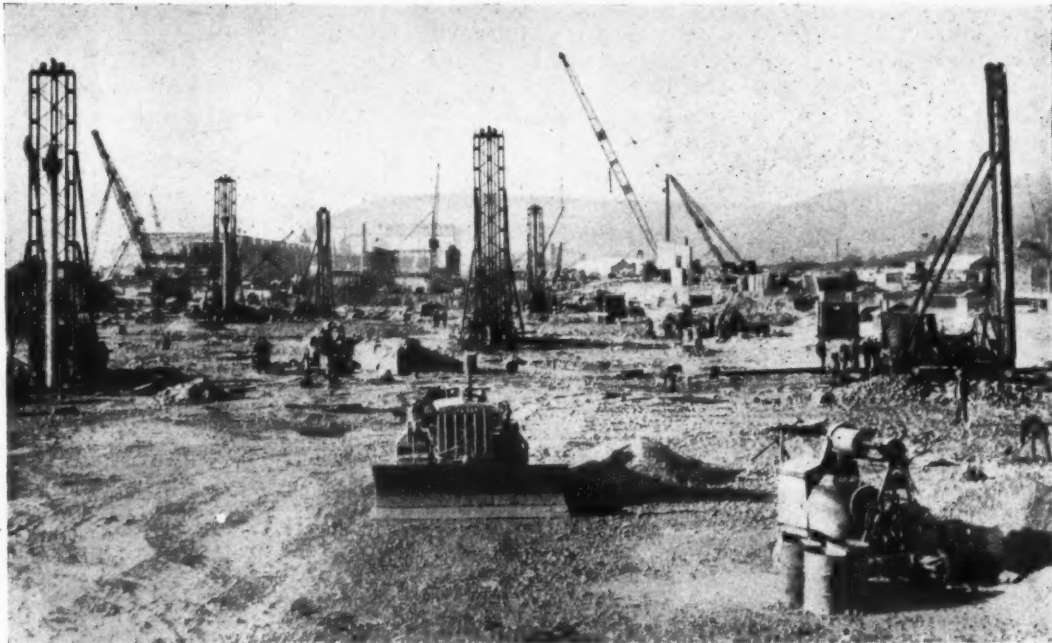
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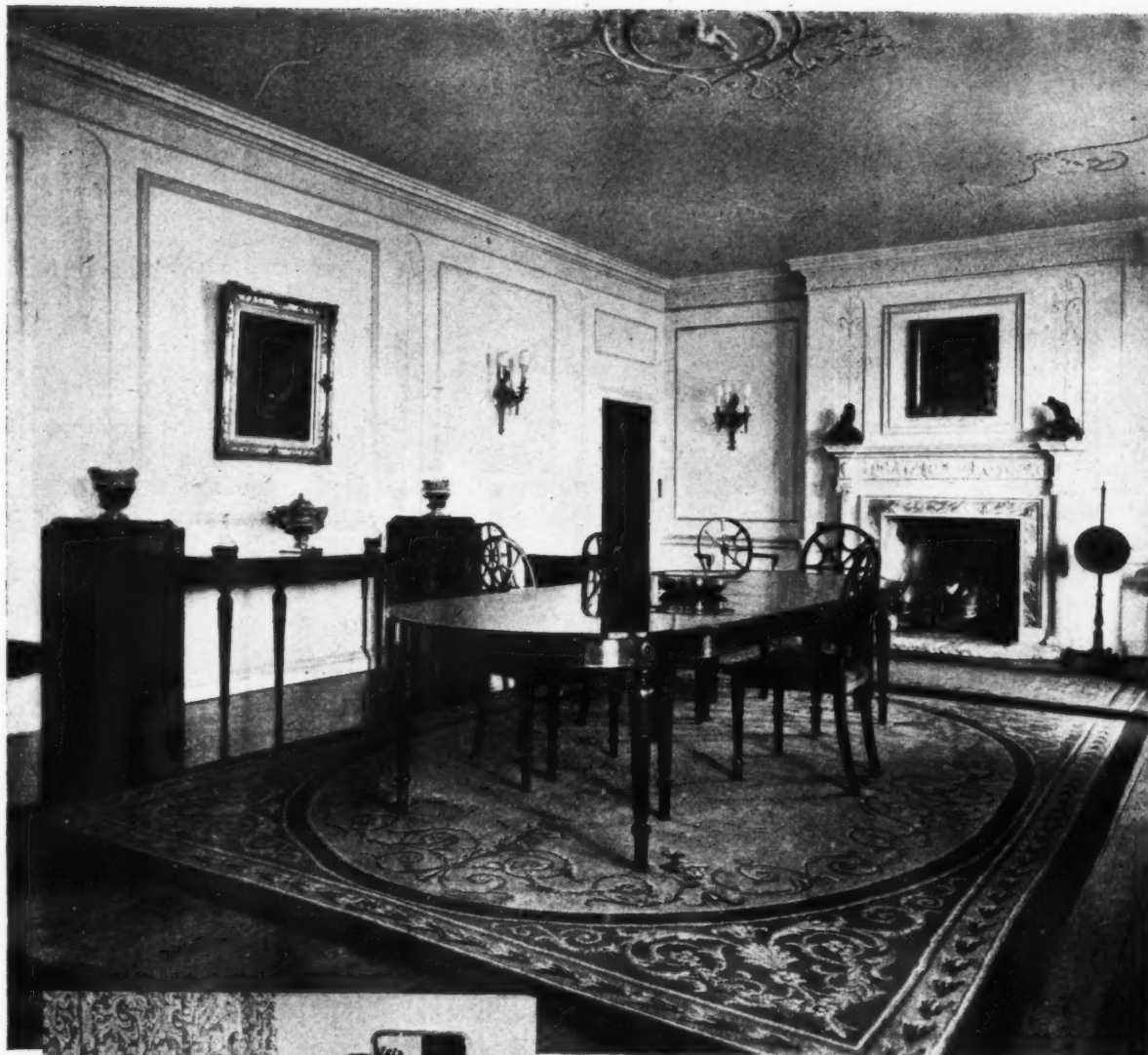
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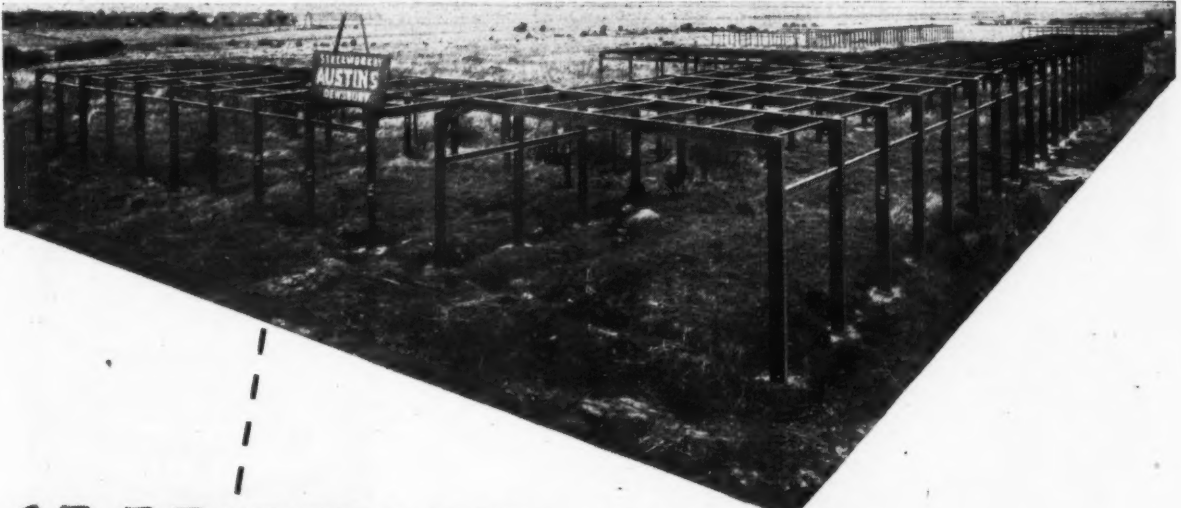
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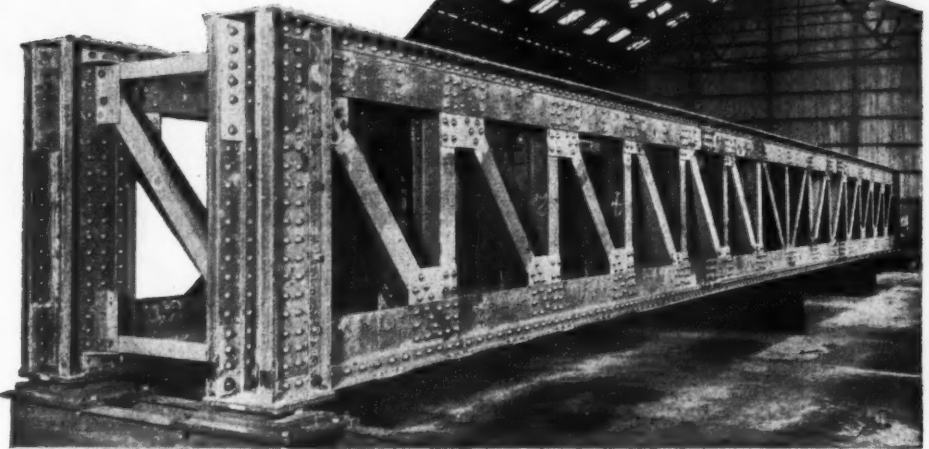
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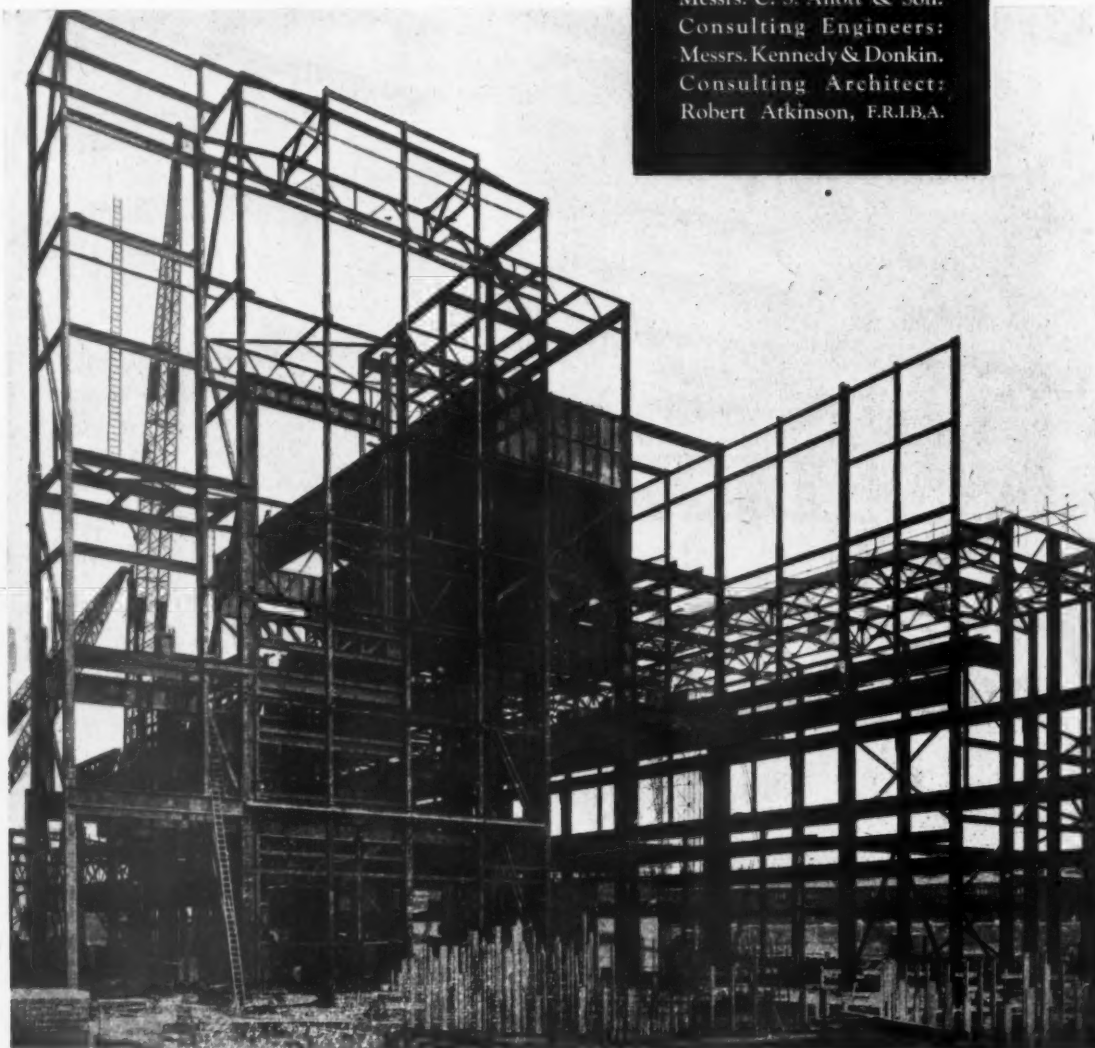
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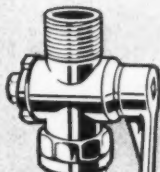
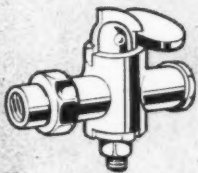
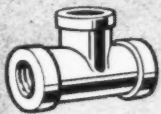
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NEW S

THURSDAY, October 6, 1949
No. 2852 VOL. 110

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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.

WO BURN ABBEY is to be RENOVATED.

Agreement has been reached in principle with the MOW for the renovation of the Abbey in Bedfordshire at an estimated cost of £60,000, so that the Duke of Bedford can return there to live. The work proposed will take two years. It includes demolition of the east wing and the riding school, rebuilding the top floor of the north wing to correspond with the south wing and altering the state rooms.

A new plea has been made for the PRESERVATION of LAVENHAM VILLAGE.

Unless the renewed appeal for funds which is to be made in October is successful this mediæval wood village in Suffolk will be condemned and pulled down. A £6,000 appeal was opened 19 months ago by the Lavenham Preservation Committee. Of this, £4,000 is required for an endowment fund to ensure the upkeep of the ancient Guild Hall of Corpus Christi.

The National Trust has agreed to accept the responsibility for the Hall in perpetuity if the sum can be raised. So far £3,800 has been collected of which £2,000 was donated by the Pilgrim Trust.

In common with every other periodical, this JOURNAL is rationed to a small part of its pre-war consumption of paper. Circulation is therefore temporarily restricted but would-be subscribers are advised to have their names put on the waiting-list. Their names will then be added to the subscription list as soon as possible. Subscription rates: by post in the U.K. or abroad, £1 15s. od. per annum. Single copies, 9d.; post free, 11d. Special numbers are included in subscription; single copies, 1s. 6d.; post free, 1s. 9d. Back numbers more than 12 months old (when available), double price. Volumes can be bound complete with index, in cloth cases, for 17s. 6d. each; carriage 1s. extra.



DIARY FOR OCTOBER NOVEMBER AND DECEMBER

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

BIRMINGHAM. S. F. Morice: *The Re-planning of Obsolete City Areas.* R. F. H. Ross: *Acquisition and Administration of Properties in a Central Redevelopment Scheme.* The Council House. (Sponsor, RSI.) OCT. 6

GLASGOW. L. W. Hutson. *The Scottish Tradition in Architecture and Building Construction.* Rankine Hall, 39, Elmbank Crescent, Glasgow, C.2. (Sponsor, DSIR.) One-day conference. OCT. 6

LONDON. *Background to Design Exhibition.* (Sponsor, CID.) Rayon Design Centre, 1, Upper Grosvenor Street, W.1. Weekdays, except Saturday, 10 a.m. to 4 p.m. Closing date not announced.

Economy in the Use of Steel in Building, by L. W. Elliott. Architectural Science Board lecture at 66, Portland Place, W.1. (Sponsor, RIBA.) 6 p.m. OCT. 11

Radiolympia. Olympia, London. (Sponsor, Radio Industry Council.) Daily, 11 a.m. to 10 p.m. UNTIL OCT. 8

Dry Rot Exhibition. Building Centre, 9, Conduit Street, W.C.1. (Sponsor, DSIR.) UNTIL OCT. 22

Textiles and Textures Exhibition. Murray House, Petty France, S.W.1. (Sponsor, CID.) Daily, 10 a.m. to 5 p.m.; Saturdays, 10 a.m. to 12 noon. UNTIL OCT. 21

Professor C. A. Hart. *The Influence of Modern Methods of Surveying on the Advancement of Public Works Engineering and Town Planning.* University College, Gower Street, London, W.C.1. (Chadwick Public Lectures.) 2.30 p.m. Nov. 22

COMPETITIONS

New Civic Hall at Guildford. Promoters: Guildford Corporation. Assessor: G. A. Jellicoe, F.R.I.B.A. Premiums: (1) £1,000. (2) £500. (3) £250. Site: Firs Estate, London Road, Guildford. The promoters require a design for (a) a large assembly hall, to seat 1,200 persons, to be used for civic and concert purposes, and (b) a small hall, to seat 500 persons, for lectures with an alternative use as a banqueting hall. The halls are to be designed for use separately or together for one function, with ancillary accommodation

which includes refreshment rooms and kitchen; lounges; cloakrooms and lavatories; dressing rooms; offices for officials and the caretaker's flat. Drawings, which must be mounted on stiff board, are to be drawn to the scale of 16 feet to one inch. Enquiries must be received by the Town Clerk, Municipal Offices, Guildford, Surrey, with a deposit of £2 2s., to be paid by the competitor for conditions of entry. The last day for questions is November 15, 1949. Designs must be received by April 30, 1950.

(a) *Hall of Residence* and (b) *Site Layout at Nottingham University.* Promoters: the Council of the University of Nottingham. Assessor: Sir Percy Thomas. Premiums: (1) £1,000; (2) £750; (3) £500. Section (a) is a design for a hall of residence for 150 women students. The promoters will proceed with the scheme as set out by the winning competitor. Section (b) is a layout of the whole site for four halls of residence. The promoters reserve the right to adopt or modify this scheme, or not to proceed with it. Enquiries must be received by the Registrar, the University, Nottingham, by November 1, 1949. A deposit of £2 2s. must be paid by the competitor for conditions of entry. Designs must be received by March 11, 1950.

Competition for designs for interior treatment of two saloon bars and two public bars. (Sponsor, The Architectural Press Ltd.) Prizes: (1) £500; (2) £250; (3) £100. Assessors: Hugh Casson; J. S. Eagles; R. Furneaux Jordan; E. B. Musman; and J. M. Richards (representing the editors of *The Architectural Review*). Questions must be addressed to "Pub Competition Questions," The Architectural Press Ltd., 9-13, Queen Anne's Gate, S.W.1, and must be received by November 15. Designs must be received by mid-day, February 28, 1950.

Festival of Britain Competition. "Vertical Feature" competition. This will be the dominant vertical element in the exhibition. It may be completely abstract in conception or related to the theme of the exhibition. Height should relate to adjoining buildings. Overall area of site is 40 ft. square, excluding surrounding promenade area which may be used for geying. Steel and timber employed should be restricted to a minimum. Assessors: Presentation Panel of the Festival of Britain. Premiums: First prize, £300; second prize, £150; third prize, £100. Further fees will be payable for preparation of detailed working drawings if prize-winning design is constructed.

C R E A T I O N W I T H C R A F T S M A N S H I P



A view in the new showrooms of Messrs. Lederer, 45 Brompton Road,
London, S.W.1. Architect: Lionel Brett, M.A., A.R.I.B.A. Interior Decoration by
Courtney Pope Ltd. Electrical work by Courtney Pope (Electrical) Ltd.

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From AN ARCHITECT'S Commonplace Book

THE MATHEMATICIAN'S MATERIAL [*From American Building, by James Marston Fitch (B. T. Batsford, Ltd.).*]
 From a purely structural standpoint, the least efficient structures in the world are the Pyramids, which occupy all but the merest kernel of the space they displace. From the same narrow standpoint, the molded plywood PT boats and plan fuselages of World War II are among the world's most advanced structures. "Advanced" and "efficient" are, however, relative terms: that structure is most advanced and efficient which most closely conforms to the configuration of its own stress patterns. To put it another way, that structure is best which does the most work with the least material or—as the engineers say—whose strength-weight ratio is highest. Crystal Palace, Brooklyn Bridge, Eiffel Tower—all three were remarkably efficient structures. However, two of them were not buildings at all, and the Palace itself was a very special sort of showcase, with few of the complexities in plan or function which characterise even the simplest five-room cottage. Of great significance is the fact, however, that all three were of iron. The historic accomplishment of men like Roebing and Paxton was the concept of structural strength achieved through precision instead of mass. To realize such task it was necessary to analyze the problem of structural efficiency theoretically—that is, mathematically. Only thus could one determine precisely under what set of circumstances a given amount of material would support the greatest load. Such theoretical investigations were scarcely possible until the development of modern steels. For steel is a mathematician's material because it is almost perfectly isotropic—that is, its physical characteristics are such as to make it react identically in all directions from a given point when stressed. Natural materials, such as timber or granite, because of their internal construction, do not react identically in all directions from the point of load; nor do they, because of their natural flaws and impurities, react predictably.

An MOH ENQUIRY was held at LETCOMBE BASSETT on Thursday last.

Mr. I. H. Ainsworth, the Inspector, heard a "complaint" by the Letcombe Bassett Parish Meeting that the Wantage (Berkshire) Rural District Council had defaulted in its duty as a local authority, in failing to provide the village with a sewerage system.

Mr. D. G. Squibb, counsel for the parish meeting and for the CPRE, said that the sanitary conditions of the village were such that they did not comply in any way with moderate standards of hygiene. If Letcombe Bassett was to continue in the future, as a proper place for people to live in, something would have to be done about the sanitation. To deal satisfactorily with the sanitation would mean provision of a main sewerage.

At the moment some of the houses had cesspools and some septic tanks, but these were not suitable because they were liable to cause pollution to the stream which flowed through the village, and the pollution would interfere, and possibly destroy, the watercress beds.

He also referred to the cost of a scheme which would be £8,770 for an independent scheme for the village, or £9,171 for the scheme with an outfall to Letcombe Regis. If the dearer of the two schemes was put into operation it would mean a yearly expenditure of £321 over the whole period of a loan. It would mean a 9s. rate increase if the cost was levied on Letcombe Bassett alone. The Rural Council would not have to meet the whole cost out of their own resources, because a Government grant could be obtained. The sewerage scheme would enable old cottages to be reconditioned, and this, he said, would be cheaper than building new houses at Letcombe Regis and transferring Letcombe Bassett residents there.

The history of the village's efforts to obtain a sewerage scheme, culminating in the inquiry, was outlined by Mr. Frederick T. Barrett, chairman of the Letcombe Bassett Parish Meeting, who alleged that the eight council houses in the village were "a nuisance and a disgrace to the local authority," and that the council had defaulted in not providing proper drainage.

With sewerage, he said, houses could be erected on the site in the centre of the

village which had been chosen by the council in 1944, but plans for which had been vetoed.

Mr. Barrett went on to comment on the fact that there had been no conference with the village on the matter and that the County Council had advised the Rural Council to meet housing needs of Letcombe Bassett at Letcombe Regis. This decision was based, he said, on the assumption that the Rural Council had ruled out the question of a draining scheme, when, in fact, this was still under consideration by the Ministry. It was not right for the local authority to lay the blame for their own inaction on someone else.

Mr. Frederick Etchells, the architect, of West Challow, who was holding a watching brief for the SPAB, referred to Letcombe Bassett as a "key" case, which would have an effect on many other villages throughout the country.

The clerk to the Wantage Rural Council, Mr. L. Woodgate, said that the cost of the

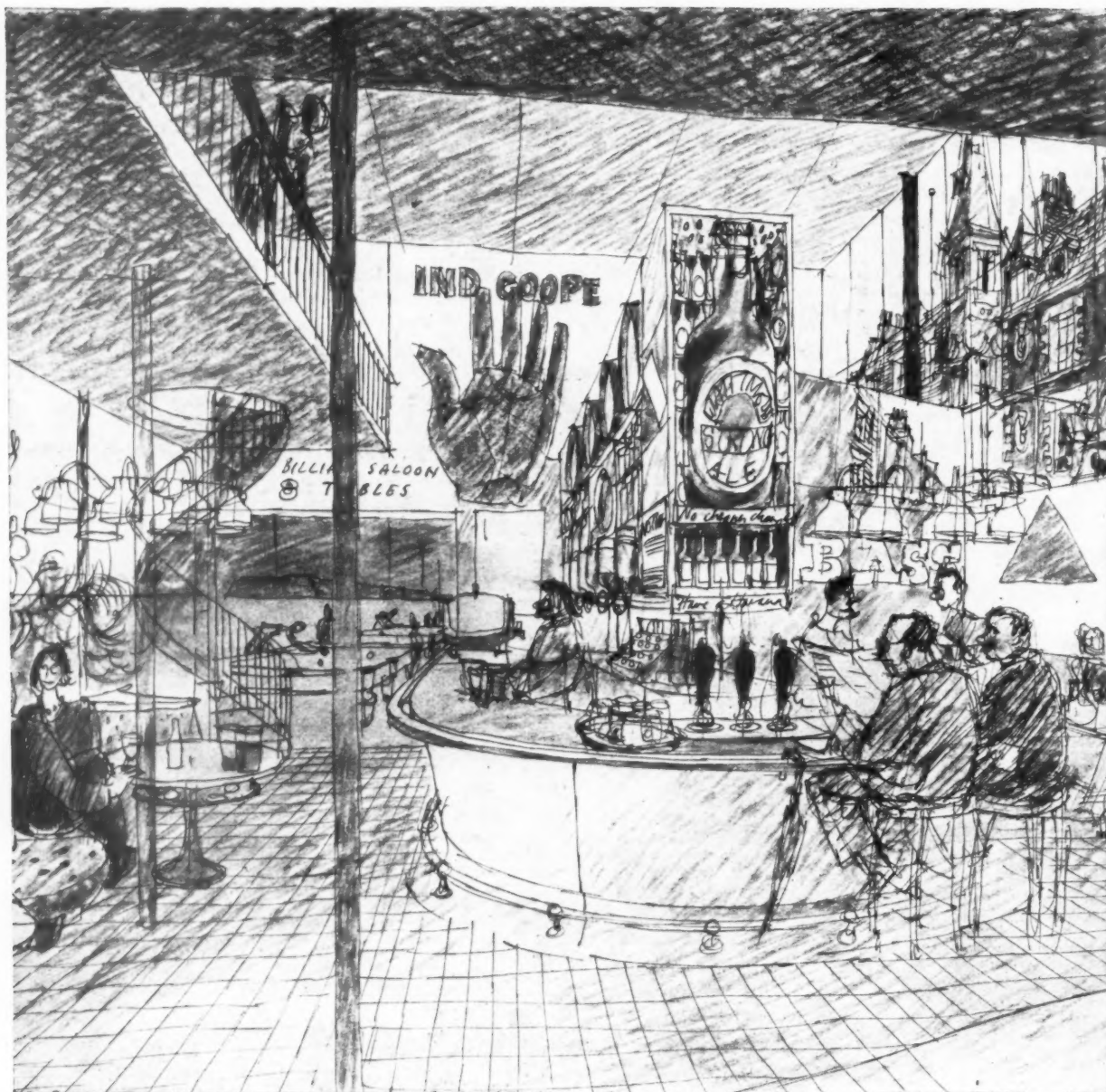
main drainage scheme for the parish was estimated to be £8,500, and would considerably exceed the cost per house laid down by the Ministry of Health. The Council was therefore of the opinion that the cost of providing a sewerage scheme at the present time for this parish was prohibitive.

Mr. J. C. Bagnall, engineer and surveyor to the Wantage Rural District Council, said that the council had decided to proceed with the schemes for Compton, Blewbury, Hanney and Hampstead Norris. He hoped that when the schemes were finished it would be possible to turn to smaller villages, including Letcombe Bassett.

Following the summing-up by Mr. Squibb for the Parish Meeting, in which he said that by failing to provide the sewerage system the Rural Council was "condemning Letcombe Bassett to a slow and lingering death," the Inspector adjourned the inquiry and later an inspection was made of the village and surrounding area.



A perspective of the dam and hydro-electric power station at Olwen Falls, Uganda, which is to be built by the Uganda Electricity Board. The consulting engineers are Messrs. Kennedy and Donkin and Sir Alexander Gibb and Partners.



Inside the Pub

A drawing by Gordon Cullen from the October *Architectural Review*, which is a special issue about pubs. The drawing is one of several exercises in the employment of traditional pub motifs—barrels and bottles; mirrors and glass screens; gaily lettered advertisements—in modern pub interiors, with the object of creating a modern equivalent to the cheerful atmosphere that is found in old pubs but is missing in most modern ones. In order

to encourage study of this problem among architects, *The Architectural Review* (with the support of the Brewers' Society) is promoting an open competition for the interior design of four public-house bars. The prizes are £500, £250 and £100, and full particulars are given in the October number. A summary of the conditions appears on page 363 of this issue of the JOURNAL. Designs have to be in by February 28.

EVENING COURSES on BUILDING AND CIVIL ENGINEERING are to be given at technical colleges in the Manchester area.

Similar lectures by specialists have been given with success in the last two years on

the recommendation of a committee formed by the Manchester and District Advisory Council for Further Education. This year's lectures are as follows: A course of twelve lectures on "Design of Rigid Building Framed in Concrete" at the Royal Technical College, Salford, will be given by Mr. E. Shepley on Wednesdays, commencing on November 2. Ten lectures on "Prestressed Concrete" will be given by Mr. Kurt Billig at the College of Tech-

nology, Manchester, on Thursdays, commencing on January 19; and Messrs. S. Packshaw, D. C. Bean and J. Owen Lake will lecture on "Pile Driving: Theory and Practice," from February 10 for eight consecutive Fridays at the College of Technology, Manchester. A number of lectures will conduct the "Refresher Course for Building Foremen" at the same College from January 17. There will be nine lectures.

The Architectural Press Ltd., is sponsoring a PUBLIC HOUSE COMPETITION.

The object of the competition, of which full details are given in the October issue of *The Architectural Review*, is to raise the standard of interior design in the English public-house. The competition has the co-operation of the Brewers' Society, who have donated the prizes. Apart from the usual exhibition of competitors' designs, which will take place following the announcement of the results, the winning designs and (it is hoped) a full scale model of one bar from the first premiated design will be exhibited at the Brewers' Exhibition to be held at Olympia during the autumn of next year. The promoters have appointed Messrs. Hugh Casson, J. S. Eagles (nominated by the Brewers' Society), R. Furneaux Jordan, E. B. Musman, and J. M. Richards (representing the Editors of *The Architectural Review*), to act as assessors. Prizes will be £500, £250, and £100. Designs are to be sent to The Architectural Press Ltd., 9-13, Queen Anne's Gate, S.W.1, and endorsed "Pub Competition," not later than mid-day, February 28, 1950. Questions must be received addressed as above, and with the envelope endorsed "Pub Competition Questions," so as to arrive not later than November 15. Intending competitors are asked to notify The Architectural Press Ltd., by letter, endorsing the envelope "Pub Competition Entry."

The designs to be submitted are for the interior treatment of four separate, unrelated bars, as follows: (1) Saloon bar with 1,000 sq. ft. of public space exclusive of counters and service areas (service areas in all cases to include serving space, storage space and all fittings). Provision to be made for the service of snacks. (2) Saloon bar with 400 sq. ft. of public space exclusive of counters and service areas. Provision to be made for darts. (3) Public bar with 800 sq. ft. of public space exclusive of counters and service areas. Provision to be made for darts and other games. (4) Public bar with 200 sq. ft. of public space exclusive of counters and service areas. The interior planning of the four separate bars is naturally a vital part of their designs, but otherwise the competition is not an exercise in public-house planning. The aim of competitors must be to design pub interiors in a contemporary idiom, using present-day materials and techniques, in order to create by efficient and imaginative planning, furnishing and decoration, an atmosphere which is in a direct line with English pub tradition. In this connection, competitors are recommended to study this special October number of *The Architectural Review* on the subject.

A few vacancies remain for the POST-GRADUATE COURSE IN THE ROYAL ACADEMY SCHOOL of ARCHITECTURE.

Applications from students who wish to enter will be considered if received before October 12. The School of Architecture is a day school for not more than ten students who have taken a British University degree in architecture or have passed the final examination of the RIBA. Qualified students may be accepted for an advanced course of training comprising an intensive study of civic architecture. The course is for one year and is gratuitous. The students will complete each year for a RA Grand Prize of £300, and a second prize of £150 presented by Lord Fairhaven. Students who wish to take this course for the year 1949-50 should apply to the Secretary, Royal Academy of Arts, Piccadilly, W.1, stating their age and qualifications, and should send with their application a portfolio of studies and designs.

DEVALUATION AND BUILDING PRICES

IF the dollar crisis had not become acute in the second quarter of this year, 1949 might have marked the turning-point in post-war building costs. Those costs have moved, as after World War I, closely in parallel with costs and prices generally. With a budget surplus, and high taxation ruthlessly maintained, there seemed to be a chance in April this year that the post-war inflation of prices would be checked. Then came the bad news of Britain's (and Europe's) hard currency deficit, which led step by step to a devaluation. Whether the last step was "forced on" the Government or "chosen by it" is, to the ordinary man, a matter of words, though possibly of some political consequence. If it was a choice, it was made in very hard circumstances.

The immediate consequence of the change in the dollar value of the pound has been to raise the cost in pounds of all dollar imports. This will put up the prices of some important building materials. Not all timber comes from hard currency areas; if the proportion is about one-quarter, then timber, as a whole, may go up in price by 8 to 10 per cent. The Government has already announced some immediate increases in the prices of base metals. Copper has gone up from £107 10s. to £140; lead from £87 5s. to £122; zinc from £63 10s. to £87 10s. The total effect of these changes on building costs for housing would be to raise them by only 2 or 3 per cent. It is likely that a certain complacency about these changes may result from calculations of this kind.

Such complacency is as misplaced as the optimistic view that bread alone (of all the items in the cost of living index) will be affected by the change. There are much wider economic problems raised by devaluation; first, there is the enhanced inflationary pressure implied by the mere fact that we are about to try to pump more goods out of the country while we are unable to raise total output by any other means than increased productivity (idle resources are not available). Secondly, there is the general problem of estimating wages; even if the present wage-crisis is overcome, with a rapidly rising cost of living it is bound to recur. The devaluation has only momentarily postponed the issue, "is deflation politically possible in this country?" An all-round deflation of prices seems now to be improbable.

Thirdly, not only dollar import prices are going to rise. Devaluation, it must be remembered, is coming to all Western Europe, not only to Britain. This will stimulate European exports generally, and must cause shortages in some intra-European trade, and consequently higher prices. If there is, as seems likely, a continued steady, if painfully repressed, inflation, this cannot but adversely affect the constructional industries. Their output will be expensive, and create serious problems of public finance; sooner or later they will be axed. There remains, fourthly, the rise in the rate of interest, which

is noticeably taking place on the gilt-edged market, and may eventually affect the terms of borrowing. Anyone who can put off building today will be able with some confidence to anticipate better terms tomorrow.

We do not venture to predict how these conflicting forces will work out. But it would be a mistake to suppose that the rise of price of a few building materials is the only way in which devaluation will affect building. The industry is vulnerable to the indirect effects of a highly inflationary situation. If rates of interest rise all round, that will discriminate against immediate investment expenditure. The chances now are that building costs will not fall, but will rise at least as fast as wholesale prices generally. The man-power of the industry, and of the materials' industries, may be drawn on for shipbuilding, engineering and other export trades, and if some of the materials industries are below capacity then unit costs tend to rise. It cannot be said that the outlook for 1950 is at all bright; all that can be hoped for is that the slowing down of the building programme will be kept to a minimum. Costs will almost inevitably rise, but each advance in prices must be resisted until it is absolutely unavoidable.



The Architects' Journal

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

INDIFFERENT AND GOOD

I've just seen a copy of *Building in Britain Today*, for which HMSO charges 6d. Designed presumably as something for people to take away from the Tunbridge Wells Building Week, MOW's Chief Press Officer calls it an "impressive survey of the Building and Civil Engineering Industries," but to me it's a collection of some fairly familiar and not very interesting pictures, with a tailpiece of some pleasant little houses, which I'd like to know more about, entirely unidentified. Another non-want for architects, and not a long felt want for the public.

On the other hand, quite high marks for MOW's Advisory Leaflets—simple handouts on specific subjects like plaster, pipe lagging, renderings and other troublesome subjects. Just the thing for the foreman and operative, and containing a good deal more than most architects know anyway.

DEVALUATION DANGERS

Most of us who are connected with the architectural profession are wondering what devaluation is going to mean for building and civil engineering. The industry as a whole cannot complain about the way limited resources have been allocated in the past four years. If we disregard (with an effort) the troubles of private architects and other sectional interests, there seem only two ways in which the broad allocation might have been improved. One or two per cent. of new houses built elsewhere could have been put in new towns and thus have made the realization of a great idea probable instead of very unlikely; and nearly all road improvements in the open country should have been cut out, in favour of works in towns, particularly blitzed areas.

We were all hoping—in fact, we were promised—that after four years at least a noticeable beginning was going

to be made on reconstruction. At the moment I find that those who are optimistic about reconstruction in the next few years are pessimistic about the country's chances of earning dollars. Their argument is that all resources possible will be concentrated on export and that only if this effort fails will reconstruction be undertaken as a means of preventing severe unemployment.

DISSONANCE ON DISPLAY

Sweet are the uses of advertisement. At Radiolympia, for example, the sales resistance of the casual visitor may be undermined by a surfeit of singing strings and an occasional segregation of saxes. Of course, nothing undignified is amplified. Jiving is not encouraged; there is no point in visitors getting hep in the aisles if they can get super-het on the stands. No doubt exhibition organizers consider that a non-stop programme of family favourites is psychologically good for business. And it is quite possible, of course, that the public will be far more impressed by what it sees if it is reminded by sugary tunes that through the modern miracle of radio Cousin Ethel's favourite song can be reproduced especially for her, together with a message from "Squibs, Spike and the Ballaculish Twins."

But for those few who have not acquired the habit of listening without hearing, the Palm Court atmosphere is far from congenial. It merely serves as a reminder of the crimes against art that are committed on the "air." (If you say "ether," then I'll say either.) I must admit that I once felt grateful for the comparative uplift afforded by a wailing Wurlitzer when faced with a display of custard powder at the Ideal Home Exhibition. But it is extremely difficult to judge the quality of a television set when there is so much outside interference. Incidentally, there are excellent viewing and listening facilities in the gallery. For this reason it is hardly necessary for exhibitors to battle with the central broadcasting system, thus destroying discourse with discords.

However, although the ear drums are continually oppressed and are practically shattered at the close of



Draycot House, Wiltshire, which has been bought for demolition by a firm of building contractors. (See Astragal's comment below).

day by a peal of electronic bells, there is little that is offensive to the eye. A view of the stands from the gallery gives an unusually pleasing effect. At such exhibitions as this, in which the objects on display are small in size, the stands naturally harmonize better than in an exhibition containing heavy industrial products. No doubt it is easier for the organizers to visualize the complete lay-out when exhibits are similar, but, nevertheless, it would surely be possible to achieve an equally harmonious pattern at other types of exhibition if there was greater co-operation between designers.

One more point. Fortunately the strike has not seriously affected the exhibition. Nevertheless, it is obvious that if something is not done to ensure that scales of payment of exhibition constructional work are negotiated well in advance there is a possibility that exhibitors will be nervous of making ambitious plans. The consequence of this would be a decline in the amount of work for contractors and a deterioration in standards of design.

BUILDING SITES

It is well known that modern builders and architects have to have flat sites, or, at any rate, only very slight slopes. This is due to the necessity for economy in foundation work and to the difficulty the architect has in laying out the roads in fine axes and curves

when the ground goes up and down. As any farmer will tell you, the result is that all new towns and building sites lie in the bottom of valleys on the best farming land.

*

However, Dr. Alice Garnett, speaking at a meeting of the British Association, has pointed out that, in winter, at any rate, valleys are considerably colder than hills. As very few architect or builders have yet begun to increase the amount of heat insulation in their designs, this seems to provide another pistol for those who are anxious about our food supply to hold at the town planner's head. Frank Lloyd Wright, you will remember, said that the English hills would provide the very finest sites for houses. But then his organic style of building flowers its best on stoney soil.

ANY OLD TIMBER OR RUBBLE?

We frequently hear of fine and dignified houses being sacrificed to the tax collector and being converted from their original use to new purposes. But fortunately some use is generally found for them, unlike Draycot House in Wiltshire which Gordon Cullen photographed recently (see illustration above). This house, a stronghold of the Royalists in the Civil War, has been bought for demolition by a firm of building contractors for the sake of the materials of which it is built.

Though not of any great architectural interest, it is a characteristic "great house." One aspect of the abandonment of the country mansion that has raised little comment is the effect on the architectural coherence of a village. With the disappearance of the principal building (and the corrugated iron village hall does not adequately take its place), the architectural and formal balance is destroyed. Perhaps some new building type will arise and fill the gap. In the meantime, a quick profit on the timber and other materials appears to prove an irresistible attraction.

TEST CASE

Elsewhere in this issue is a report of an MOH enquiry held at Letcombe Bassett, a subject that was discussed in the JOURNAL on March 31. The result of the enquiry will be awaited with interest. This test case will give some indication of the future of similar villages throughout the country.

ASTRAGAL

LETTERS

Leonard C. Howitt, F.R.I.B.A.

Howard V. Lobb, F.R.I.B.A.

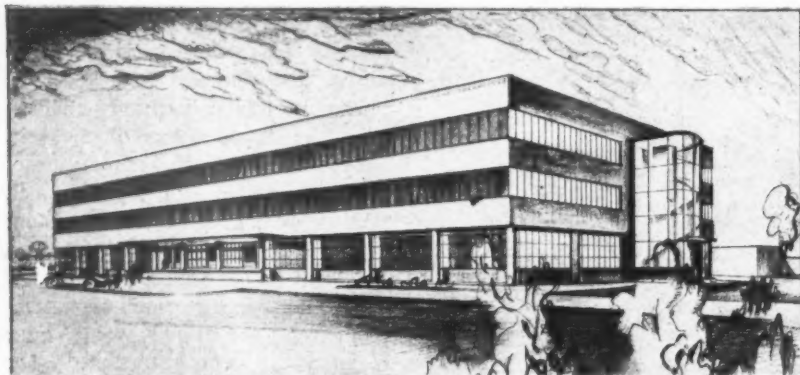
James C. Palmes, Librarian, R.I.B.A.

Architects Registration Act, 1938

SIR.—Mr. G. B. J. Athoe misses no opportunity to pursue his particular sectional interest, and I have no doubt that he has every need to do so. I wonder what percentage of the new entrants to the profession who are qualified for Associateship RIBA have preferred to become "incorporated" architects? The answer may be the cause of his feeling that the Registration Act "is steadily stultifying and gradually destroying the profession." There could be no other basis for such a morbid and extravagant misconception than the realization of the hopeless outlook for what are flatteringly termed the alternative bodies.

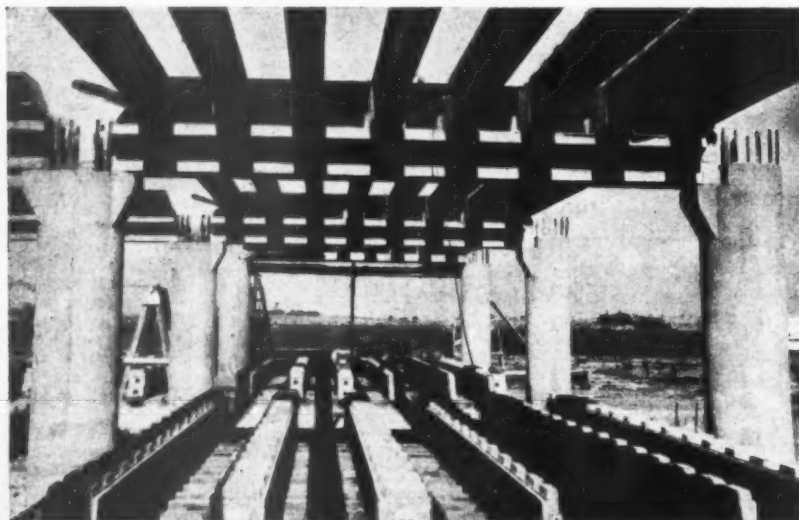
His pessimism can be clearly understood if one accepts the view that "the architectural profession" is synonymous with the minor part of it included in the ranks of his Association. The Architects' Regis-

PRESTRESSED CONCRETE OFFICE BUILDING



Top, a perspective of the new prestressed concrete building which is being built by the MOW for HMSO at Sighthill, Edinburgh. This storage and distribution building will have two suspended floors, each designed to carry a super-imposed load of 3 cwt. per sq. ft. The Magnel post-tensioning system with sandwich plate anchorages is being adopted for all except the secondary beams in the roof. These are factory made by the Hoyer system and are spaced at approximately 2 ft. 2½ in. centres. A 4½ in. thick concrete slab is cast over them. Recesses

in the top edge of these beams form a key with the floor slab. The ground floor slab is being used on the site as a casting bed for secondary beams. Main beams are made alongside the building. Columns of normal reinforced concrete, which form 20 ft. by 30 ft. bays, are designed to provide stability because the outside walls contain large windows. Above: left, first floor beams in position; right, casting bays for secondary beams, showing curved cables in position ready for stressing. Below, another view of first floor beams.



tration Council is supremely justified in the interests of architecture, the profession and the public in "closing the shop" to those entrants who cannot reach the standard of the qualifying examinations.

If Mr. Athoe claims that his Association's admission standards are in any way comparable to those of the RIBA, perhaps he will be prepared to give your readers the answers to the following questions:—When did the IAAS hold its last qualifying examination for architects? How many sat and how many passed? What percentage of the architect members of the IAAS have passed this qualifying examination?

Manchester

LEONARD C. HOWITT

RIBA Exhibitions

SIR.—As chairman of the RIBA Exhibition Sub-Committee I was very glad to read in your last week's issue the tribute which you paid to the high quality of the RIBA's public exhibitions, which in the past have created immense interest both in the architectural and the public press. How much we appreciate that the Institute's task is not limited to London is shown by the efforts which we have made over some twenty years for RIBA exhibitions to be toured in the provinces, and you will be well aware that despite the many difficulties of accommodation all our post-war exhibitions have visited provincial centres where possible. As a development of this, photostat copies of some of our exhibitions have not only visited many very small towns in England but have been circulated throughout the world.

I quite agree that it may be necessary to treat a function like the Building Week in a somewhat different manner as you suggest, but the idea of presenting the architect by means of cleverly designed panels as the general co-ordinator has already been done several times and formed, as you remember, the opening section of our recent exhibition of Industrial Architecture. We were asked by the Ministry of Works to limit our exhibits to the area covered by the Building Week, i.e., South East England. The space for this exhibit was allocated to us by the Ministry. It therefore appeared to us that on this occasion we would be rendering much greater service to the architectural profession by presenting simply to the public a record of some of the work which architects in the South Eastern area have designed and built since the war.

London

HOWARD V. LOBB

Colonial Williamsburg

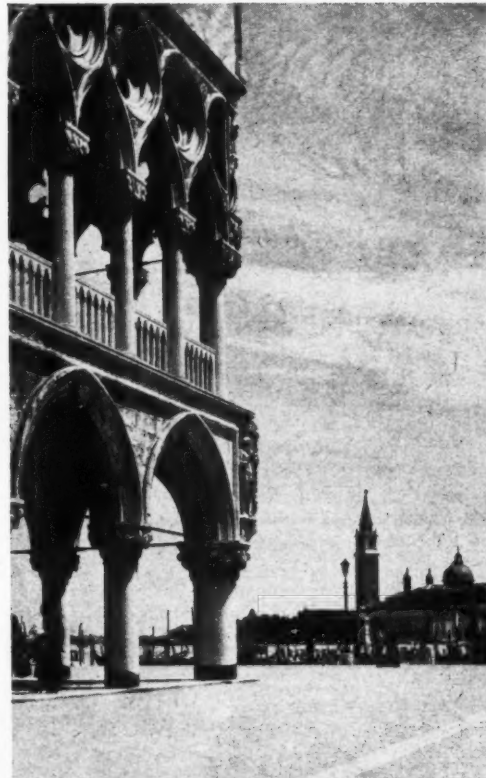
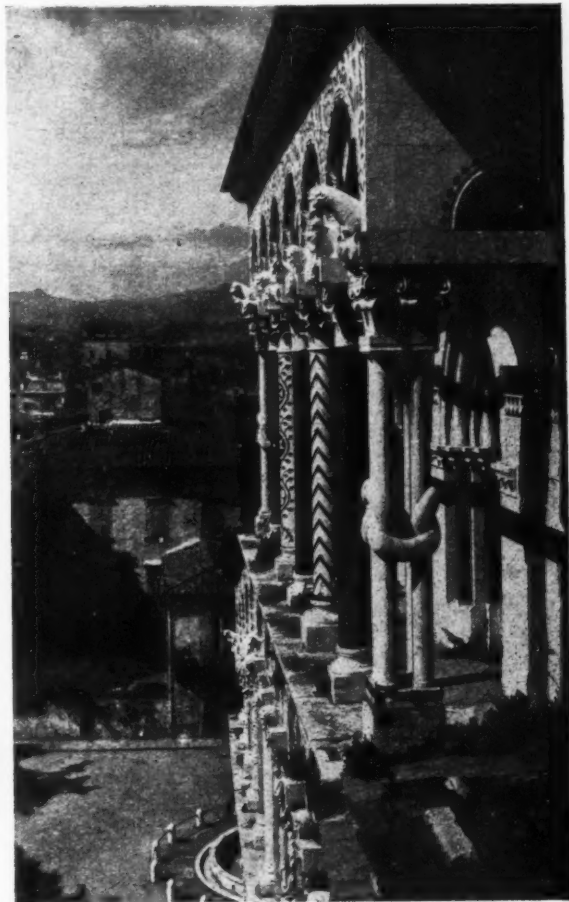
SIR.—May I reassure Astragal on one point? Most of the inhabitants of Williamsburg do not wear eighteenth century garb. I noticed only one embarrassed local in fancy dress when I was there in August. He was the coloured coachman of an open horse-drawn carriage, in which the uninhibited visitor is encouraged to see the sights.

The encouragement of visitors is, in fact, a matter of urgent concern to the corporation that administers and reconstructs the town. Rockefeller munificence is by no means limitless and unconditional, and I learnt from Mr. Edwin Kendrew, the architect upon whom the chief responsibility of restoration lies, that the trustees of the fund require Colonial Williamsburg to make every effort to pay its way. The main, indeed the only, source of revenue is, of course, the tourist's pocket, and it appears that in America the tourist likes a bit of atmosphere! The surprising and creditable thing in Williamsburg is not that so much, but that so little, is done to pander to the more ludicrous and profitable whims of public taste. The tourist season is short and the temptation must be strong.

London.

JAMES C. PALMES

ITALIAN ARCHITECTURE AT THE RIBA



These photographs are included in an exhibition of Italian architecture which opens at the RIBA, 66, Portland Place, W.1, to-day. The Institute points out that the exhibition is offered as a diversion. It is, they suggest, likely to afford some relief to those who, by force of circumstances, have had to limit their interest in buildings recently to the study of utility dwellings. The exhibition aims at doing nothing more than reminding the connoisseur of the excellence of a few select buildings of permanent fame in Italian history and interesting the casual

visitor in the comeliness of their outlines and their relationship with more familiar sights. The photographer himself, Mr. Ralph Deakin, confesses that he is neither a professional photographer nor an architect, but a lover of Italy and a grateful student of her immeasurable artistic wealth. Top: left, St. Peter's, Rome; right, Lucca cathedral. Above, the Arch of Septimius Severus, with view across the Forum to the Arch of Titus. Right, a corner of the Doges Palace, Venice, looking towards the church of San Giorgio Maggiore across the water.



The small lounge, "A" deck.

S.S. RANGITOTO

INTERIOR DESIGN BY EASTON AND ROBERTSON

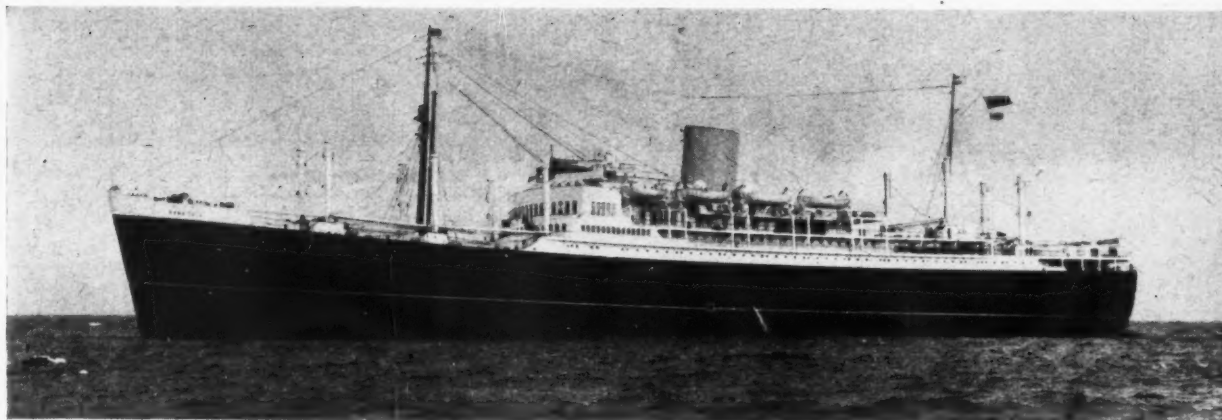
GENERAL.—The New Zealand Shipping Company's new liner, the *Rangitoto*, entered into service on the New Zealand route last month. A sister ship, the *Rangitane*, is expected to commission at the end of the year. The *Rangitoto* was built by Messrs. Vickers-Armstrongs, Ltd., at Walker-on-Tyne, and accommodates 400 passengers, to be carried in "one class." Although this is by no means a new arrangement the *Rangitoto* and her sister ship will be the first in their trade to be so designed. The advantage of the "one class" ship is the minimizing of waste passenger space caused by duplication of public rooms and the breaking up of deck areas. In the

planning and designing of the public rooms, care has been taken to achieve simplicity and comfort, and in this respect close consultation between the naval architect and the architects from the earliest stages in the design of the vessel has been beneficial.

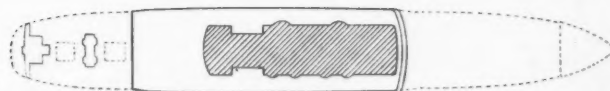
Most of the main public rooms are on "A" deck, but the drawing and smoking rooms and the nursery are on "B" deck, while the dining saloon is on "D" deck.

The cocktail bar is forward of the main stair-hall and the lift which serves the four passenger decks, and being immediately below the bridge commands a fine view over the bows. Walls and ceiling are painted off-white,

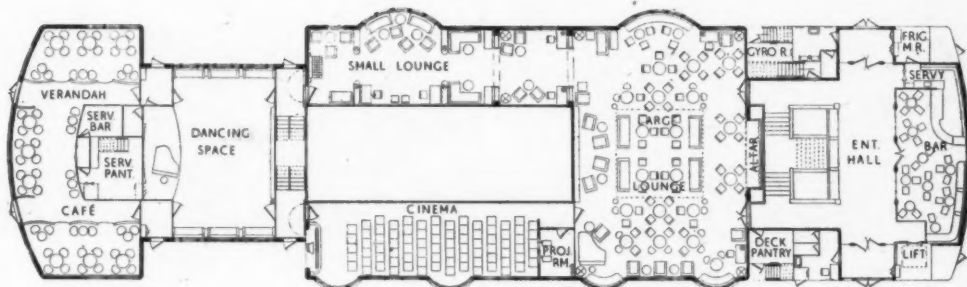
and the woodwork is birch with stainless steel for the bar fittings. The large lounge, aft of the stair-hall, is the principal room in the ship. A special feature of the lounge is the fireplace surrounded by a silver bronze book case. The upholstery is in shades of rust, brown, yellow and green and the walls are decorated by a series of pastoral lithographs by Alice M. Coats. The small lounge is primarily a reading and writing room, and is divided into shallow bays which house desks, easy chairs and settees. Over the fireplace is a large painting of the Tower of London by Brian Midlane, and side panels carry prints of old London.



S.S. Rangitoto.



KEY PLAN, "A" DECK

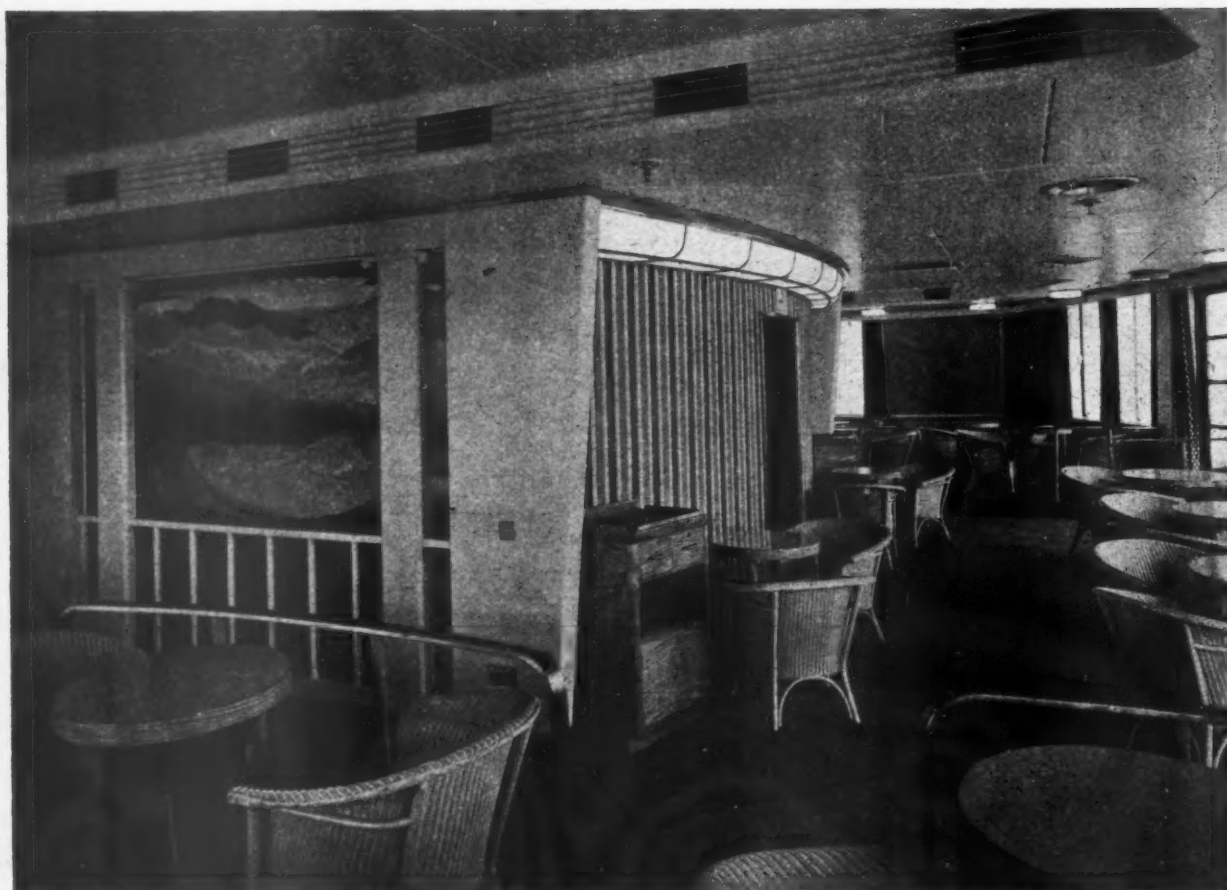


PLAN OF PRINCIPAL
ACCOMMODATION
ON "A" DECK

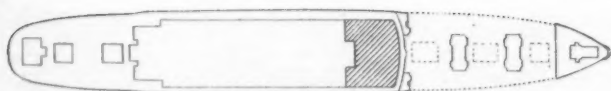
[Scale: $\frac{1}{4}$ " = 1'0"]

Below, the main lounge, "A" deck.

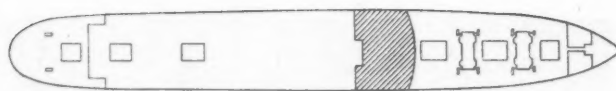




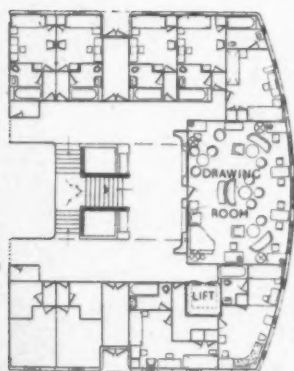
The veranda café, "A" deck.



KEY PLAN, "B" DECK

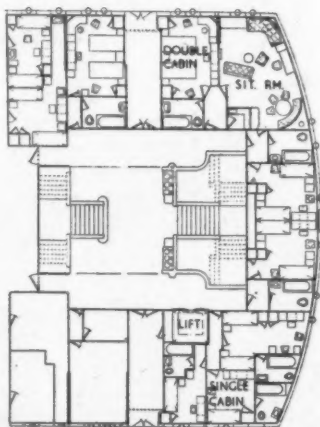


KEY PLAN, "C" DECK



PART PLAN, "B" DECK

[Scale: 1/4" = 1'0"]



PART PLAN, "C" DECK

The cinema is aft of the main lounge on the starboard side and so designed that by day it can be used as a games room. Acoustic treatment takes the form of patented expanded anodised aluminium cover to wall slabs. The dance floor is of maple strip, and there are mirrors on the walls. A small stage is provided for concerts. The veranda café, adjacent to the dance floor, is planned on two levels, and overlooks the sports deck and the swimming pool. Four mural panels are the work of Frank Coventry. The drawing room on "B" deck, below the cocktail bar, is decorated in pink, beige and light blue with carpeting in two shades of grey,

The staircase hall, "A" deck, looking towards the cocktail bar.



The cinema, which can also be used as a games room.



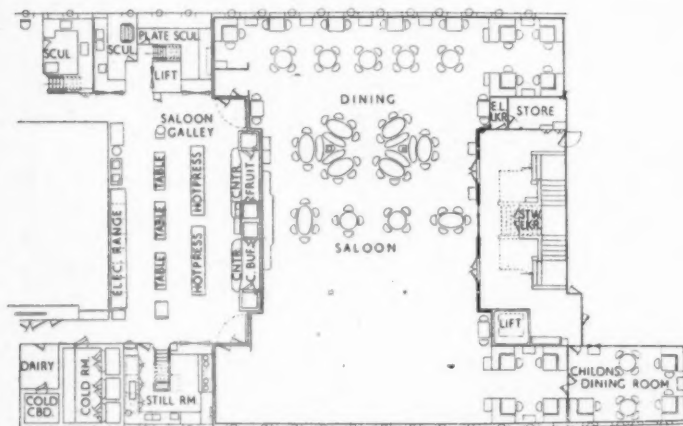
The dance floor, adjacent to the veranda café.



B Y E A S T O N A N D R O B E R T S O N



KEY PLAN, "D" DECK

PART PLAN, "D" DECK [Scale: $\frac{1}{4}$ " = 1'0"]

The bar on "A" deck.

while the smoking room, also on "B" deck, is furnished in brown, beige and green. The walls, which are painted a light colour, carry a number of hunting prints.

Among the attractions of the nursery, on "B" deck, is a bridge from which miniature ships are operated on a painted seascape panorama.

The dining room, on "D" deck, seats more than 200 people, so that all passengers can be served at two sittings. A small private dining room and a children's saloon adjoin. The decorations include a series of paintings, by John Farleigh, of English and New Zealand flowers.

There are forty-seven single bedstead cabins on "B" deck and twenty-seven of these are large rooms with a direct porthole. All the rooms of this type have a private bathroom adjoining. The



S. S. RANGITOTO : INTERIOR DESIGN

*The drawing room on
"B" deck.*



*A double bedstead cabin
on "B" deck.*



*The dining room on "D"
deck.*



remaining single bedstead cabins on "B" deck are L-shaped with a washbasin under the porthole. The sixteen rooms with double bedsteads on "B" deck are identical in design, and all have a private bathroom.

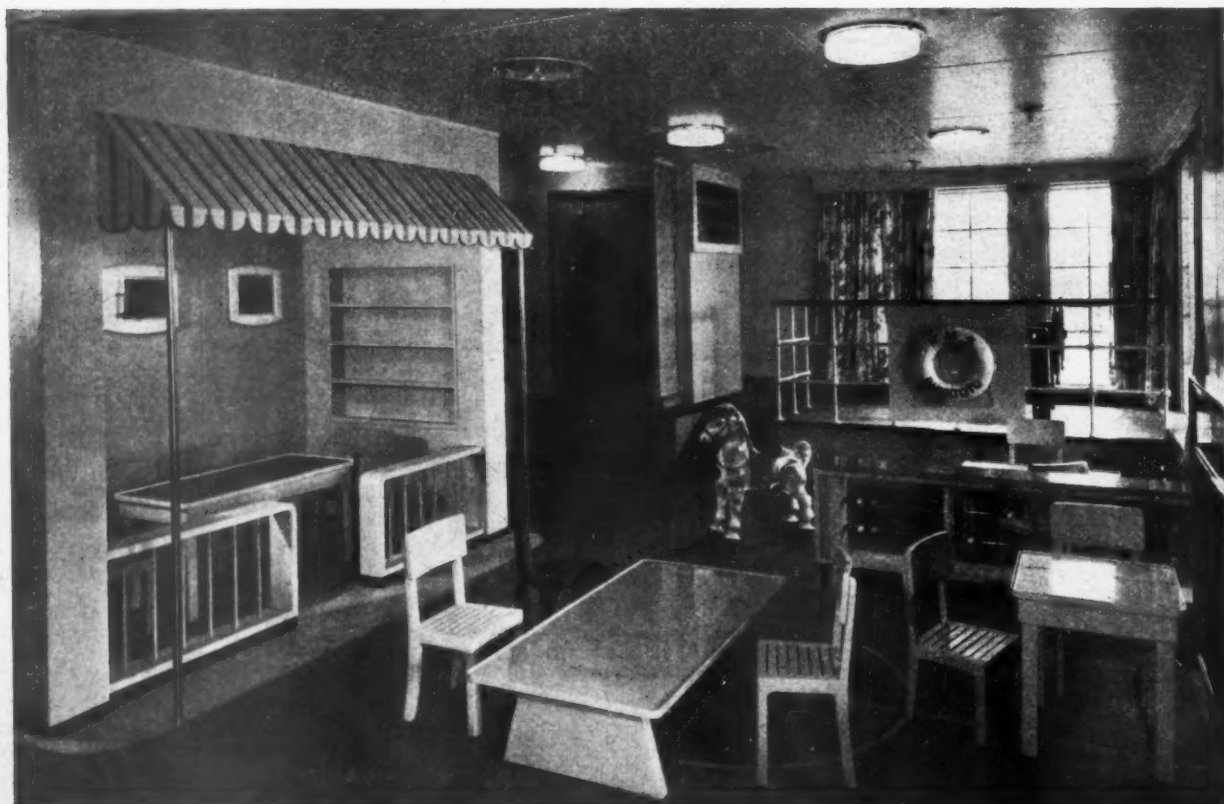
Apart from a special suite and five large double rooms with private bathrooms, "C" deck has a number of double cabins some of which, by use of pullman berths, can be converted for use as three- or four-berth cabins. These rooms are larger than the permanent two-berth cabins and are provided with a second washbasin and additional wardrobe space. All the cabins on "D" deck are convertible by use of pullman berths. There are twenty-four single-berth cabins on this deck, each of which can be adapted for use as a single- or a two-berth room. "D" deck also contains a series of cabins which have three bedsteads with three pullmans above and can be let as three- four- five- or six-berth cabins.

The main contractors for the public rooms were Messrs. H. H. Martyn & Co., Ltd. For list of sub-contractors see page 388.



The staircase hall on "B" deck.

The nursery on "B" deck.



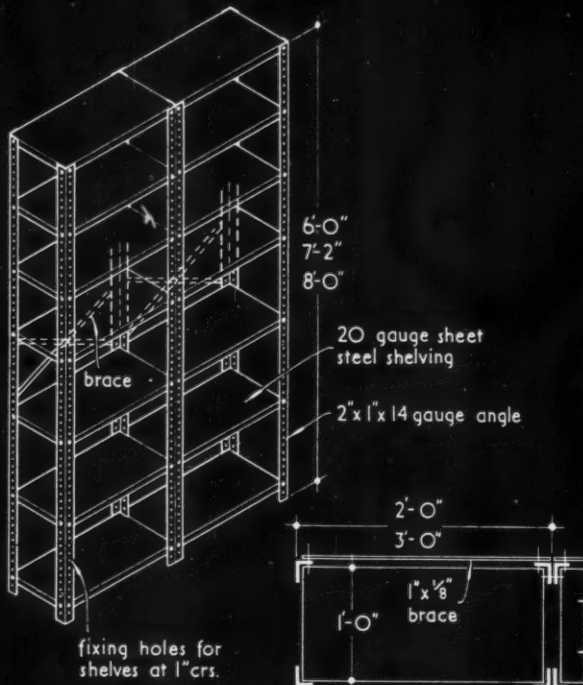


deck.

FURNITURE | STEEL | SHELVING

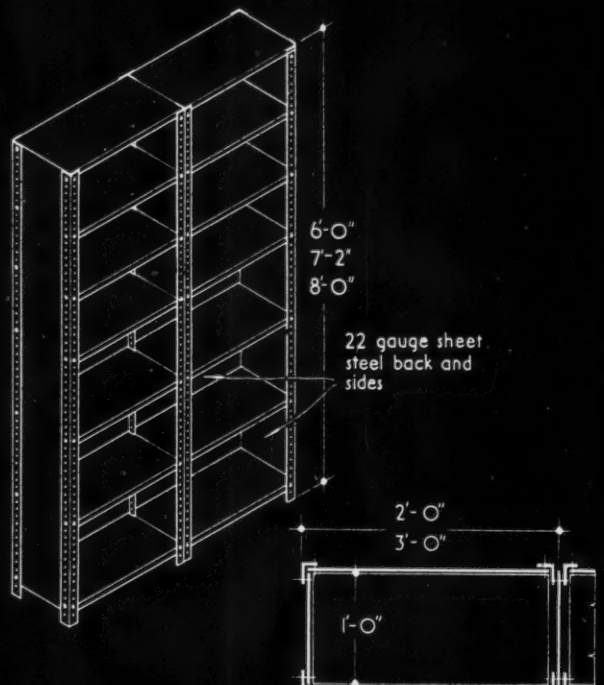
42.C3

The Architects' Journal Library of Information Sheets 211. Editor: Cotterell Butler, A.R.I.B.A.

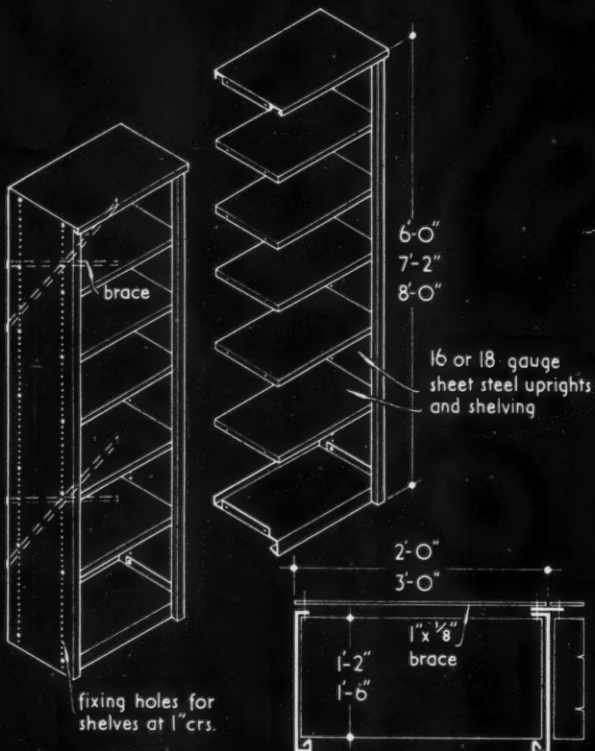


OPEN TYPE.

OPEN AND SOLID TYPES: ANGLE CONSTRUCTION.

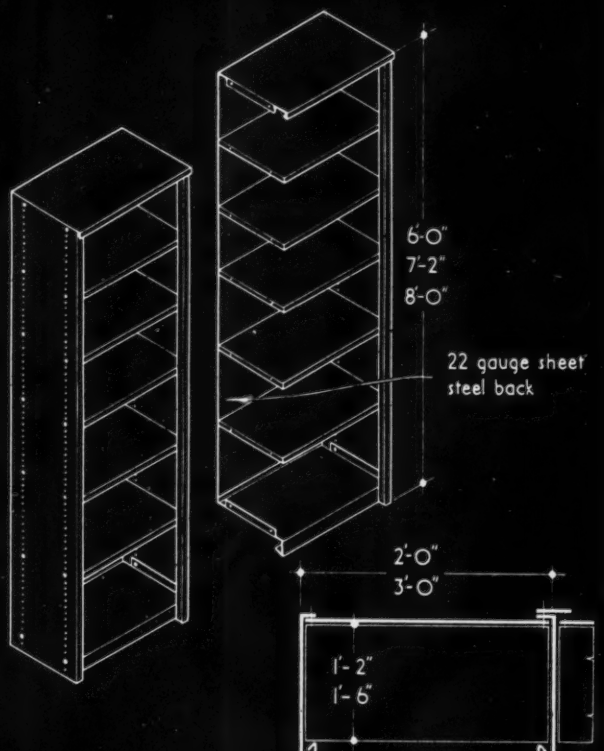


SOLID TYPE.



BRACED BACK TYPE.

BRACED AND SOLID TYPES: SOLID SHEET CONSTRUCTION.



SOLID BACK TYPE.

42 C3 LIGHT ADJUSTABLE STEEL SHELVING

This Sheet describes a range of light adjustable steel shelving suitable for office use. A range of steel storage bins, racks and shelving is described on Sheets 42.C1 and 42.C2.

Open and Solid Types : Angle Construction

This shelving is designed for light loads not exceeding 100 lb. distributed on each shelf. Each bay requires four corner posts. Back filler plates and end plates can be supplied if required.

Braced and Solid Types : Solid Sheet Construction

Braced type : Each bay contains a fixed top and bottom, two pairs of diagonal braces and five adjustable shelves. The initial bay has two solid uprights; each extension bay requires one solid upright only.

Solid type : Each bay contains a fixed top and bottom, a solid back and five adjustable shelves. The initial bay has two solid uprights; each extension bay requires one solid upright only.

Materials and Finish

The shelving is constructed from cold rolled and close annealed patent flattened steel sheet with rolled section supporting members where necessary. The standard finish is olive green stove enamelled. Other colours are available if required.

Further Products

Tyre and bar racks, lock-up stores and works offices, lavatory partitions, clothes-lockers, transporter platforms.

This Series of Sheets deals with tanks, cisterns, bins, bunkers, cycle-racks, non-ferrous metal mouldings, perforated and embossed metals, woven wire screens, steel partitions and furniture, railings, fencing, gates, manhole covers, rainwater goods and ventilators.

Compiled from information supplied by :

G. A. Harvey & Co. (London), Ltd.

Head Office : Greenwich Metal Works, London, S.E.7.
Telephone : Greenwich 3232 (20 lines).
Telegrams : Cheaper, Wol, London.
London Office : 58, Victoria Street, S.W.1.
Telephone : Victoria 4963.

38.C1 MUROMATTE FLAT OIL PAINT : PAINTING SPECIFICATIONS FOR VARIOUS SURFACES

Surface	Preparation	Treatment
<p>New surfaces dry and chemically neutral :</p> <p>lime plaster, hardwall plaster, fibrous plaster, Sirapite plaster, Keene's cement, Parian cement, Portland cement rendering, brickwork, masonry, asbestos-cement sheets.</p>	Remove plaster nibs, efflorescence and all loose material.	<p>1st coat : Muromatte thinned to priming consistency with three parts of raw linseed oil and one part turpentine. Allow to dry thoroughly. Stop any small cracks, etc., with a mixture of Muromatte and whiting. The 1st coat on Keene's and Parian cement and Sirapite plaster should be thinned with equal parts of oil and turpentine to a very thin consistency.</p> <p>2nd coat : Muromatte thinned with two parts of raw linseed oil and one part of turpentine. Allow 24 hours to dry.</p> <p>3rd coat : Muromatte thinned with turpentine only.</p>
<p>New surfaces dry but still alkaline :</p> <p>lime plaster, Portland cement rendering, brickwork, masonry, asbestos-cement sheets.</p>		<p>1st coat : Alkali-resisting Primer. Apply liberally and evenly, brush well, and allow to dry thoroughly.</p> <p>2nd coat : Muromatte thinned with two parts raw linseed oil and one part turpentine. Allow to dry thoroughly. Stop small cracks with a mixture of Muromatte and whiting.</p> <p>3rd coat : Muromatte thinned with equal parts of raw linseed oil and turpentine. Allow 24 hours to dry.</p> <p>4th coat : Muromatte thinned with turpentine only.</p>
<p>New surfaces not dry but chemically neutral, where priming "following the trowel" is required :</p> <p>Keene's cement, Parian cement, Sirapite plaster.</p>	Remove all efflorescence and loose material from surfaces before applying 2nd. coat.	<p>1st coat : Keene's Cement Primer No. 01522 thinned with turpentine and applied within 12 hours of trowelling. Allow to stand until all moisture has dried out completely before applying succeeding coats.</p> <p>2nd coat : Muromatte thinned with equal parts of raw linseed oil and turpentine.</p> <p>3rd coat : Muromatte thinned with equal parts of raw linseed oil and turpentine.</p> <p>4th coat : Muromatte thinned with turpentine only.</p>
Oil painted surfaces (all types).	Wash down to remove all dirt and grease. Scrape off all loose material. Make good defective plaster work. Allow to dry thoroughly.	<p>1st coat : Muromatte thinned with two parts of raw linseed oil and one part of turpentine. Allow to dry thoroughly. Stop small cracks with a mixture of Muromatte and whiting.</p> <p>2nd coat : Muromatte thinned with equal parts of raw linseed oil and turpentine. Allow 24 hours to dry.</p> <p>3rd coat : Muromatte thinned with turpentine only.</p>
<p>New surfaces, dry and chemically neutral :</p> <p>wallboards (non-absorbent type) and new Anaglypta.</p>	Paint backs and edges of wallboards before fixing. (This should be done in any case whether a known risk of moisture is present or not.)	<p>For two-coat work on previously painted surfaces omit 2nd coat and touch up repaired plasterwork before applying 1st coat.</p>
<p>Waterpainted surfaces (all types).</p> <p>Size-bound distempered or lime-washed surfaces (all types).</p>	Scrape thoroughly and wash down with warm water to remove all dirt, grease and loose material. Make good defective plaster work and allow to dry thoroughly.	<p>1st coat : Muromatte thinned with three parts of raw linseed oil and one part of turpentine. Allow to dry thoroughly.</p> <p>2nd coat : Muromatte thinned with two parts of raw linseed oil and one part of turpentine. Allow 24 hours to dry.</p> <p>3rd coat : Muromatte thinned with turpentine only. For two-coat work on previously water-painted surfaces, omit 2nd coat and touch up repaired plasterwork and any bare plaster before applying 1st coat.</p>
Woodwork : unpainted or burnt off.	Glass-paper, dust off, treat knots with one coat No. 5014 genuine shellac knotting. Allow to harden.	1st coat : Muromatte thinned to priming consistency with three parts of raw linseed oil and one part of turpentine. Allow to dry thoroughly. Stop nail holes, etc., with a mixture of Muromatte and whiting.
New absorbent surfaces : wallboards, etc.	Glass-paper, dust off. Paint backs and edges before fixing. (This should be done in any case whether a known risk of moisture is present or not.)	<p>2nd coat : Muromatte thinned with two parts of raw linseed oil and one part of turpentine. Allow 24 hours to dry.</p> <p>3rd coat : Muromatte thinned with turpentine only.</p>

38.C1 MUROMATTE FLAT OIL PAINT

This Sheet describes Muromatte Flat Oil Paint and sets out in tabular form the appropriate specifications for treating a number of types of surface.

General

Muromatte is produced for use on interior work only. It provides a durable matt finish which will withstand repeated washing. It is guaranteed leadless under the terms of the Lead Paint Act, 1926, and has been awarded the Certificate and Silver Shield of the Institute of Hygiene. The material is also very suitable for use in obtaining blended effects (graduating colours from light to darker shades by stippling), and for obtaining sponge-stipple and other broken colour effects.

The paint is economical in use, as complete solidity of finish is obtained with the minimum number of coats.

Materials

Paint: The material is supplied in rather stout consistency which will allow for the addition of at least 15 per cent. to 20 per cent. thinners (by volume). It is supplied in a wide range of tints, all of which are intermixable.

Thinners: No special priming liquid is required, the only thinners necessary for priming or undercoating being raw linseed oil and turpentine. The final coat (flat finish) should be thinned with turpentine only.

Egg-shell or semi-gloss finishes may be obtained by thinning the final coat with raw linseed oil and turpentine, the proportions being adjusted according to requirements. Thinning with two parts raw linseed oil and one part turpentine will produce a semi-gloss finish, which is recommended where the paint is used on surfaces subject to condensation.

Preparation and Application

Brushing: After preparing the surface and thinning the paint in accordance with directions, it should be applied with a flat paint brush. A 5-in. flat wall brush is usually regarded as a maximum size. If desired, the finishing coat may be stippled, but this procedure is not essential for a flat finish.

When Muromatte is adjusted to dry with an egg-shell or semi-gloss finish as described above, it is advisable to stipple the finishing coat.

Spraying: The paint is quite suitable for spraying, being non-poisonous, finely ground, and of a somewhat volatile nature, features advantageous for this type of application. The consistency should be slightly thinner for spraying than for brushing.

Spreading capacity: On reasonably smooth surfaces when applied by the brushing process, the approximate spreading capacity is 120 square yards per gallon (one coat); when applied by spraying process the spreading capacity is about 100 square yards per gallon (one coat).

Drying: Muromatte thinned for priming or undercoating as specified, and applied under normal atmospheric conditions to surfaces which are clean and free from grease, is fit for further coats at 24-hour intervals. No additional driers are necessary. The flat finishing coat (*i.e.*, thinned with turpentine only), although drying quicker than the undercoats, gives ample time for easy manipulation.

Varnishing: The final coat may be varnished as soon as hard (a minimum of 24 hours). To avoid discoloration of the lighter tints a pale white oil varnish should be used.

Where it is intended to apply varnish, it is recommended that the finishing coat be thinned with a mixture of one part raw linseed oil and two parts turpentine. Muromatte which has been thinned with turpentine only will, however, take varnish quite successfully.

Further Information

The manufacturers maintain an Advisory Department which is available for advice on technical problems relating to paints and painting and the preparation of specifications and colour schemes. "Paint Specifications," a booklet containing fully detailed specifications and useful technical information, is available from the manufacturers.

Compiled from information supplied by:

The Walpamur Co. Ltd.

Head Office, Works and Advisory Department: Darwen, Lancs.

Telephone: Darwen 662.

London Office: 125, High Holborn, London, W.C.1.

Telephone: Holborn 4615.

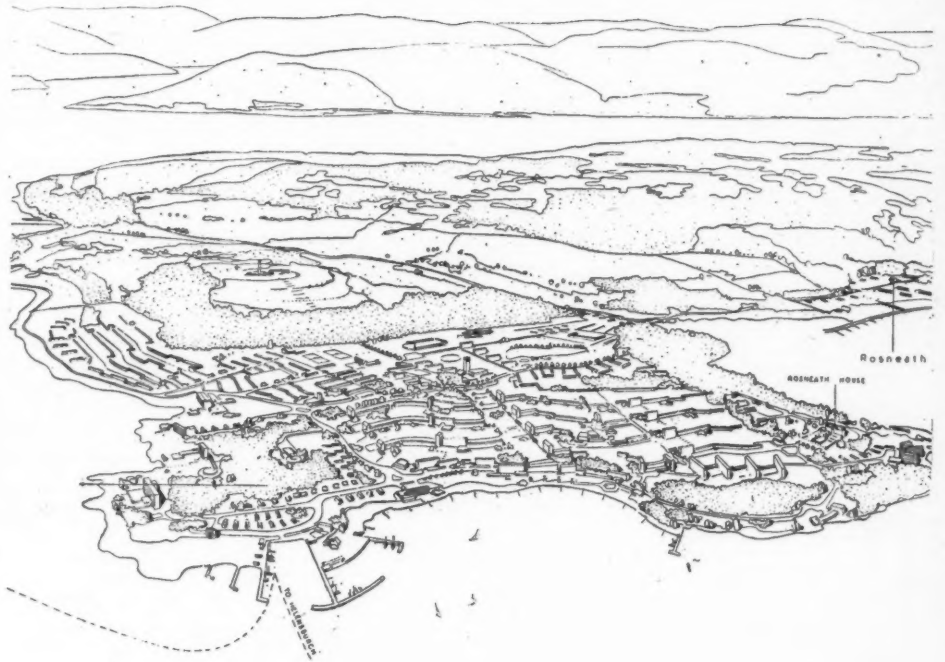
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Editor: Cotterell Butler, A.R.I.B.A.

PHYSICAL PLANNING SUPPLEMENT

The Clyde Valley Regional Plan, which has been published by HMSO, price £4 4s., was prepared for the Clyde Valley Regional Planning Advisory Committee by Sir Patrick Abercrombie and Mr. Robert H. Matthew. The Committee was set up in 1947 because it was recognized that the planning problems of the local authorities of the Clyde Basin had grown beyond the point at which they might still be overcome by piecemeal action. The Committee assumed the task of preparing an outline plan into which the individual local authorities detailed plans could be fitted without detriment to the common good. The consultant's plan was completed and issued in an abbreviated form to the local authorities in 1946. The plan, which is illustrated and reviewed in the following pages, makes generous provision for recreational facilities, including proposals for a holiday town at Rosneath (right).



THE CLYDE VALLEY

A REGIONAL PLAN BY SIR PATRICK ABERCROMBIE AND R. H. MATTHEW

introductory

Some time this month the Secretary of State for Scotland, Mr. Arthur Woodburn, is to summon a conference of local authorities to consider what steps are to be taken to implement the Clyde Valley Regional Plan and, in particular, to set up a permanent regional planning authority. This is an occasion for which an elaborate dress rehearsal has been going on for three years.

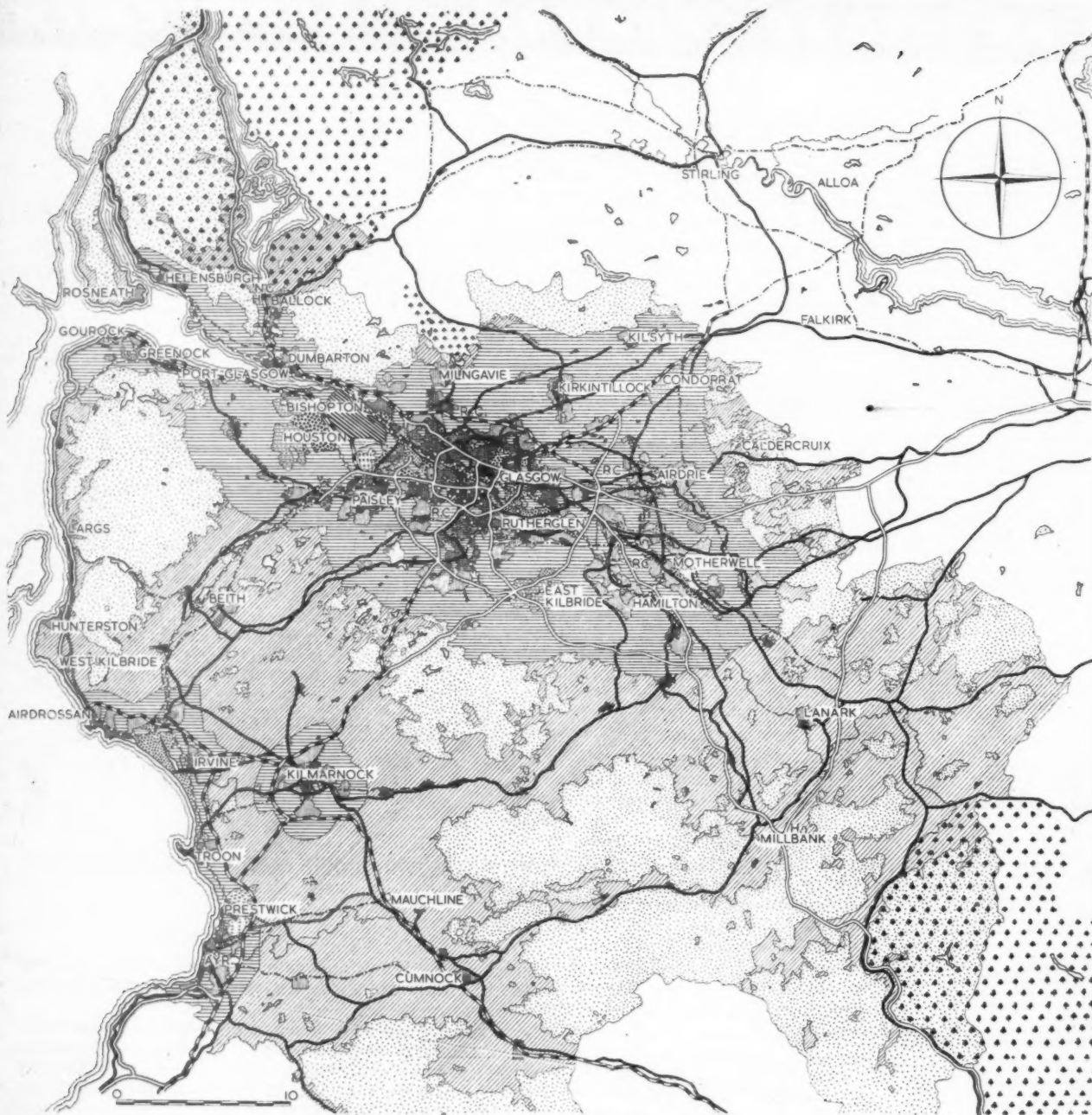
Though the plan was published in final form as recently as August 20, a draft report was issued in 1946. The prophets of regionalism memorized the main themes practically overnight—diversification of industry, redistribution of population, new towns, green belts, co-ordination of transport, specific standards of layout and design, and improved architectural treatment. Early in 1947, however, the Regional Planning Advisory Committee who had commissioned the report began discreetly to withdraw from the scene. The five County Councils and 13 Town Councils whom they represented were already exhibiting signs of uneasiness. In the main, those who tendered adverse criticisms were against spectacular development in their own areas; those who supported the scheme were against reduction of population, and so of rating revenue, within their borders.

It is easy, and it is the reformers' habit, to dismiss such "selfish" and "antiquated" criticisms with a wave of the

hand, but there is a Scottish rating problem which is as obdurate and nearly as old as the Scottish industrial problem. There are also questions of prestige.

Lanarkshire, whose coal miners are being exhorted to move to new and more profitable pits in Ayrshire, the Lothians, and Fife, is an industrial empire which, though it was founded on coal, and cheap coal at that, has absorbed an inordinate amount of new industry and is shouting for more. Glasgow used to like to think of itself as the Second City. It is now a lesser town than Birmingham. But when the regional planners proposed that 500,000 citizens should look elsewhere for work and homes the Corporation reacted by trying to show that all of the present population, plus established industry, could be re-housed within the municipal boundary and yet leave room for enough new factories to employ everybody who did not hanker after shipbuilding.

The Regional Advisory Committee left behind them not only the text of the Plan which the Department of Health, the "planning" Department in Scotland, then collected and began to push towards the printers, but a vast deposit of miscellaneous papers. These recorded in detail the results of all the surveys made by the regional planning team. They are now seen to be important to local planning authorities who are being pressed to produce development schemes by 1951 and who are mostly short of staff. (There are about 30 local planning officers in all Scotland, or roughly the same number as



- NEW TOWNS
- EXISTING RESIDENTIAL AREAS
- PROPOSED RESIDENTIAL AREAS
- COMMERCIAL & ADMINISTRATIVE CENTRE OF GLASGOW
- EXISTING INDUSTRIAL AREAS
- PROPOSED INDUSTRIAL AREAS
- POSSIBLE SITE FOR RELOCATION OF STEEL INDUSTRY & NEW DOCKS
- GREENBELT

- AGRICULTURAL LAND OUTSIDE GREENBELT
- MOORLAND
- PROPOSED NATIONAL PARK
- PROPOSED REGIONAL PARK
- N.C. PROPOSED NATIONAL RECREATION CENTRE
- R.C. PROPOSED REGIONAL RECREATION CENTRE
- CIVIL AIRPORTS
- SERVICE AIRPORTS

- MOTORWAYS
- ARTERIAL ROADS
- SUB-ARTERIAL ROADS
- PARKWAYS
- H. ROAD HALTS
- STEAM RAILWAYS
- ELECTRIC RAILWAYS (PROPOSED)
- DIESEL RAILWAYS (PROPOSED)

THE MASTER PLAN

Right, housing in the centre of Glasgow, where 700,000 people are crowded into approximately 1,800 acres. In some parts there are 700 persons to the acre. The authors of the Regional Plan propose that future densities for the city, in terms of persons to the acre, should be 120 in the inner zone, 90 in the intermediate zone, and 60 in the outer zone. It is suggested that approximately 550,000 people should be decentralized from Glasgow. Right, below, Pollok House in Glasgow. The planning consultants place this building in the category of "major monuments," works of national importance whose preservation is generally assured. However, they are more particularly concerned with another category, the "minor vernacular works," which they illustrate as models for contemporary architects. Right, bottom, pithead baths at Douglas. The planning consultants point out that this small village is threatened by intensified coal mining. They envisage expansion of the village for an increased mining population, and urge that expansion should be carried out with the maximum of care. With proper planning, they say, Douglas could probably be made one of the most successful small inland holiday centres in the region.

[continued from p. 375]

in the county of Kent.) With or without prodding, the bodies who constituted the Advisory Committee are certain to agree to the re-opening of a regional office and to the setting-up of a technical committee or group, consisting probably of their technical officers plus an adviser-cum-librarian. For the majority the intolerable catch is the fact that a regional organization, if it is to work effectively, must have at the top a steering committee with specific responsibilities and powers, and they fear any further reduction of local powers.

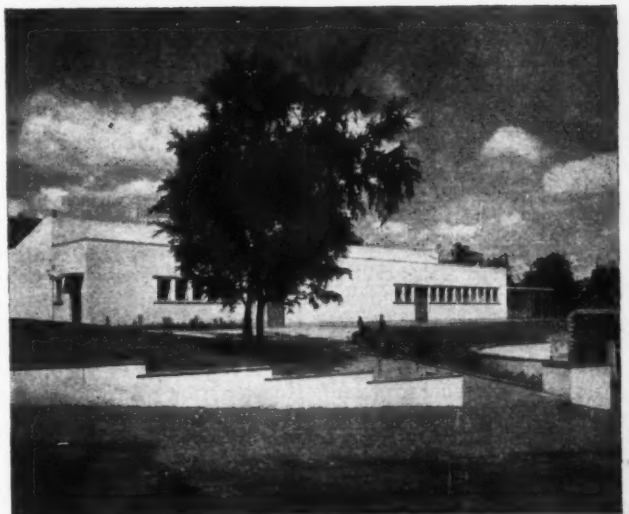
the proposals

What the plan proposes is the creation of a regional authority for the area contained within the outer line of the green belt—an area containing 1,800,000 people and extending from Greenock and Helensburgh in the West to Cumbernauld and Larkhall in the East. The authority, it is suggested, would be representative of the local authorities, and their functions should include the acquisition and control of the land required for the green belt, regional parks, and conservation of water resources; the oversight, in an advisory capacity, of the local planning schemes in the conurbation; and the supervision and control, in an advisory capacity, of the Regional Plan. It is also proposed that such a regional authority should act as an advisory body in connection with the distribution and location of industry within the conurbation—"the surest way to obtaining balanced industrial development is a system of regional government for certain functions which will broaden and equate the responsibilities of the local authorities concerned."

need for decentralization

The present difficulties of local government are inherent in the fact that the natural divisions of the Clyde's industrial and agricultural economy do not follow local government boundaries, and enclose some startling contrasts. It is a pleasure not to have to catalogue the latter, but the preamble to the plan provides an eloquent summary:—"While over two-thirds of the whole population live and work within the region, half of its area is moorland and heath, and the wild slopes of Ben Lomond are distant only 25 miles from the heart of Glasgow, where, in the dockside tenements over 700,000 people crowd together into an area of less than three square miles."

The inward drift to the industrial area, the planners insist,





Left, Loch Lomond from Balmaha. The planning consultants feel that, apart from the establishment of a National Recreation Centre at Balloch, the Loch Lomond area should be preserved faithfully in its present use and condition. Its main charm and its great beauty to the townsman, they say, resides in its natural unspoiled beauty, and its character, outside the proposed Centre, should remain substantially unchanged except for such operations as forestry and agriculture. The proposed Centre, it is hoped, will assist the object of general preservation by concentrating the bulk of tourist development in the major reception area. There is, however, a case for some tourist and holiday development at the key-points on the Loch side, which afford access to the hinterland and to side glens. There villages could reasonably be expected to afford small-scale facilities, such as car-parks, caravan camp sites and hostels. The plan contains a recommendation for a very limited provision of such facilities, and the expansion, for residential and holiday purposes, of other villages, including Inveruglas. Here the Loch Sloy hydro-electric power house will be erected, and it is suggested that the Tennessee Valley Authority should be emulated in making these plants show-places with such facilities as restaurants, sight-seeing balconies, etc.

cannot be checked except by means of a national policy of decentralization, but regional planning could and should increase the movement of industry and population away from the congested urban areas. These grew by immigration of the most spectacular kind, and are now at saturation point.

Even the airline passenger, skimming over at 200 miles per hour, can see that it would be "a matter for dismay if the existing shapes were looked upon as natural and unalterable and the new technique of industry, of environmental planning, and of housing were forced, by distortion, into that rigid framework; or if changes were accepted as inevitable but allowed to travel uncontrolled to an end which we have already seen—the needless destruction of land resources and beauty and the leaving, over great areas, of the bitter residue of dereliction and degradation."

The plan fixes the scale of reconstruction which has to be contemplated by showing that two-thirds of the houses in the region will have to be rebuilt within 50 years. It is suggested that the maximum average net residential density should be 120 persons per acre, with an absolute maximum of 140 persons per acre on any one acre. (At present, densities of 400-500 per acre are not uncommon in Glasgow, and in one dockside area six tenemental squares, occupying a space of only 18 acres, contain a total of 12,500 people—"a sizeable town on the acreage of a small village.") For most urban authorities, the report suggests, the reduction of densities is going to be the most difficult problem of all.

planned communities

In the case of Glasgow it is estimated that 500,000 people will have to be displaced, and in the case of Greenock about 38,000 out of a population of 80,000. The plan provides for re-housing about half the decentralized population from Glasgow in planned communities on the outskirts of the built-up areas, and about 150,000 in four new towns—at East Kilbride (already under construction), Houston (for which Treasury sanction is said to have been given), Bishopton, and Cumbernauld-Condorrat. A major part of Bishopton would be filled by transfer from Greenock.

Roughly 100,000 of the migrant population from Glasgow are left unaccounted for—deliberately, say Abercrombie and

Matthew. "We have particularly in mind the rehabilitation of such formerly prosperous districts as Strathmore (Perthshire and Angus), with a dozen small towns and a rich agricultural area looking to Dundee as a regional centre, and the Tweed Valley, recently the subject of special study by Sir Frank Mears as part of the Central and South-Eastern Regional Plan."

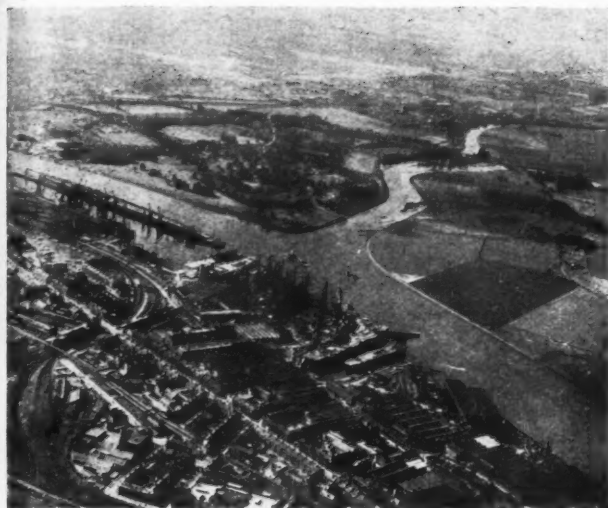
The well-to-do, those observers also note, have solved the problem for themselves by moving out—"witness the rise of dormitory towns such as Kilmacoll and Milngavie and areas such as Bearsden, Giffnock, and Newton Mearns, and even further afield on the Ayrshire coast." Municipal boundaries did not shackle this type of development: "it has jumped the fence in the quest for greater amenity; it will continue to do so as opportunity arises." The same applies, they say, to industry.

industrial problems

It is, however, in the treatment of industrial problems that the plan is weakest. Earlier gibes that it was a "geographer's piece," dreamed up from an imperfect knowledge of the territory and the people, have been shown by publication of the work in its entirety to be completely meaningless so far as population, social services, and the concomitants of gracious living are concerned. The chapter on industry, however, suffers from having been written three years ago and without regard for current development.

Nobody who nourishes an illusion of walking arm-in-arm with history now says of Clydeside that its essential character is fixed because of the domination of coal mining, metal manufacture, heavy engineering, and shipbuilding. In the first fortnight of September the Scottish Industries Exhibition attracted 500,000 visitors to the Kelvin Hall, Glasgow, including some thousands of foreign buyers, mainly by showing that the diversity of Clyde products has increased enormously in the past 15 years and is still increasing.

Shipbuilding, as the plan itself points out, is essentially an assembly industry. The passenger ship may draw furniture from Beith, joinery from Paisley, boilers from Renfrew, sanitary fittings from Barrhead, steering gear from Greenock, pulley blocks from Irvine, steel plates from Motherwell, and



Above, Clydebank, one of the few towns on industrial Clydeside to receive heavy damage by bombing. There is little land suitable for new industry, except for one 70-acre site fronting the river, which, it is proposed, should be developed as an industrial estate. As a result of the blitz a great



opportunity is now afforded for development. Above, Coatbridge, a town in which industrial and employment problems arise from the decline of the wrought-iron industry, dating back to pre-1914. Replanning will be difficult here, but a comprehensive plan is essential.

wire rope from Rutherglen. So if shipbuilding slumps many other trades are affected unless they have alternative markets. The search for such markets has been prosecuted vigorously by a great variety of firms, and has been conspicuously successful, even at a time when the shipyards are full and there are prospects of further orders. But in respect of "new" industry it is no longer assumed that any kind will do. What Clydeside is now seeking is some new form of basic industry. It may find it in some form of precision engineering or in developments of the chemical industry.

About steel, the report poses a formidable and, for Scots at least, a familiar question. Should the industry move from Lanarkshire, where coal stocks are nearing exhaustion, to a waterside site on the Clyde estuary? There iron ore could be unloaded direct to a great integrated unit, consisting of crushing and sintering plant, a battery of coke ovens, blast furnaces, steel furnaces, and rolling mills. Maximum transport and fuel economies would be obtained by the use of coke-oven gas and the transfer of hot metal direct from blast furnaces to steel works. The plan does not suggest an answer though it makes provision for the establishment of such a plant at Inchinnan.

At the press conference in Glasgow to mark the issue of the plan in final form, Sir Patrick Abercrombie said he was himself convinced that eventually the iron and steel industry would be transferred to a single site on the lower Clyde. The Secretary of State said his "impression" of recent talks was that the steelworks would remain on their present sites.

The latter also showed that for the past three years the regional planning proposals had been the principal criteria in formulating developments in the region, and in that time capital expenditure amounting to £101,000,000 had been sanctioned—£71,000,000 for housing, with 34,000 houses already built at an average cost of £1,500 each. Sites for industrial estates and new factories were selected on the recommendation of, or in consultation with, the Regional Planning Advisory Committee. About the plan as a whole he said no finer work had been done for Scotland since the war.

the river and estuary

In general, the regional proposals for the river and estuary coincide with those of the Cooper Committee. They include new road bridge, ferry, and tunnel crossings in and below

Glasgow, and provide for new dock facilities, graving docks, and naval docks.

railways

Proposals for electrification of the principal railway lines presuppose the preparation and adoption of a comprehensive regional transport plan. An expert committee appointed by the Minister of Transport is now seeking to draft such a scheme. Electrification of the following lines is recommended:—Glasgow via Paisley, Port Glasgow and Greenock to Gourock, and from Port Glasgow to Wemyss Bay, with a short spur to Crookston; the Cathcart Circle, with spurs to East Kilbride and Burnside; Bridgeton Cross to Dalmuir and Dumbarton, with forks to Balloch and Helensburgh; Bridgeton Cross to Rutherglen, with the possibility of extension to Hamilton and Motherwell.

It is suggested that the possibility of electrifying the lines to Ayr and Ardrossan, with a diesel service from the latter to Largs, should be investigated, and with it the possibility of concentrating passenger traffic on one electrified line between Glasgow and Edinburgh.

recreational facilities

The generous provision which is made for recreational facilities has been widely acclaimed. The plan proposes that the St. Mary's Loch area, in addition to Loch Lomond and the Trossachs, should be made a national park. Balloch, at the southern end of Loch Lomond, is suggested as the site for a national recreational centre—at "the gateway to the Highlands"—and it is recommended that the assistance of the New Towns Act should be sought to establish holiday towns at Rosneath, on the Gareloch, and Hunterston, on the Ayrshire coast.

In the hinterland, enlargement of villages to provide accommodation for tourists and holiday visitors is related to proposals for redevelopment of the countryside, but from the beginning there has been too little said of the rural problem and not much may be said when the Secretary of State calls the councils together. However things are settled at the bargain counter, nobody is going to seem to neglect the interests of 1,800,000 people.

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

TECHNICAL SECTION

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

INFORMATION CENTRE

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2.99 planning: general CIVIC DESIGN

Town Planning: Contemporary Problems of Civic Design. G. Stephenson. (Town Planning Review, July, 1949, pp. 125-143.)

Simple and straightforward outline of essentials of civic design.

The author bases his argument on a comparison with outstanding historic examples of town planning art, the re-creation of which adapted to modern needs should be the aim of contemporary town planning thought. He refers to the arrangement of enclosed space, i.e., within the house, and open space, i.e., the house and its setting, both based on human requirements as the most important consideration of all. There are notes on town squares, historic and modern, their relation to houses, flats and business buildings, and the need for their precinctal character to meet the living standards of modern man. The arrangement of space in new towns and in redeveloped central areas is discussed, and finally there is a reference to the essentials of democratic planning as demonstrated by the TVA and its achievements. The article, which is particularly well illustrated, ends with the following conclusion: "Town planning or civic design is the science of ascertaining human needs and the ability to meet them. It is the art of arranging space, enclosed and open, in an orderly and beautiful way. Civic design begins in the home and reaches to the factory and the fields beyond."

5.33 planning: public utilities ENERGY TRANSMISSION

Planning and Power. J. Forrester. (Planning Outlook, Vol. 1, No. 2, 1949, pp. 7-18.)

Most interesting and stimulating discussion of achievements and possible developments in production, transmission and distribution of energy. Illustrated.

The problem of the supply of energy is of vital concern not only to specialist technicians but to planners as well. It is a problem the essentials of which are based on the necessity to provide energy where it is wanted and at the right time. The growth of countries and communities depends on the availability of energy, and conditions today are such that the technician can no longer provide a source of abundant power when and where it is wanted. Coal and oil are becoming increasingly costly and must often be looked upon as a wasting asset or as a luxury that cannot be afforded. The energy of abundant falling water is denied to most countries and the utilization of atomic energy as a source of motive power remains still to be developed.

Acute shortages of power are occurring all over the world concurrent with progressive industrialization, where demand continuously outgrows the increase of supply. For technical and economic reasons it has up to now been customary to develop first the sources of energy nearest to, or most cheaply accessible to, a given point of consumption, and only to employ sources of energy remote from existing or proposed points of consumption when other possibilities were exhausted and pressure of demand had become urgent.

According to the author, who is a specialist and pioneer in the field, there are three possible solutions to the problem if no unexploited local sources of energy are available. (1) The point of consumption must be eliminated, or the volume of consumption be reduced in order to maintain a static condition of supply and demand. (2) Solid, liquid or gaseous fuel, carried by land or sea or air, must be brought intermittently to the point of consumption, and supplies must be maintained indefinitely, whether the fuel be coal, wood, oil or uranium. (3) Energy, or the source of energy, must be made continuously available over long distances by wire, cable or pipe-line.

The planning implications of these three possibilities are analysed. Control of the point of consumption is generally a haphazard undertaking owing to the fact that it is very difficult to foresee the extent of known and unknown demands for energy. Besides the cost of eliminating or suppressing local demands for energy is far too great. The carriage of fuel from the source of supply to the point of consumption is the traditional means of providing energy. However, for a great many reasons, some of which are given, the present trend is against the carriage of bulky solid fuel over long distances if the same or similar results can be achieved by other means. These other means are those specified above as the third solution, i.e., long-distance transmission by pipe or continuous wires and cables, and they are being used increasingly at the present time.

Although oil and natural gas can be piped hundreds of miles from the point of production to the point of consumption, the required installations enable one-way transmission only. Electricity transmission by cable can utilize almost any kind of terrain. Installations for transmitting alternating current at different voltages up to 300 miles are now being in use throughout the world on a scale much larger in number and size than any existing installations for oil or gas transmission by pipe-line. It should also be noted that electrical energy can be sent at different times in opposite directions along the

same transmission lines, but it cannot be stored at either end in the form of electricity. An example for 2-way transmission between Sweden and Denmark is described where Sweden, by means of hydro-electric plants, supplies Denmark with about one-tenth of her total consumption of electricity. When rain and snow in Sweden are insufficient to maintain the water reservoirs behind her plants, Denmark sends energy with imported coal from her thermal power stations along the reverse path into Sweden. The point is stressed that if, in future, energy can be transmitted from the point where it can most easily be generated to the place or places where it is wanted for consumption, then regional, national and international planning of local environments must change, probably for the better, since the attachment of industries to coal fields and the concentrations of industries and populations close to large generating stations will become relatively unnecessary.

Other interesting aspects discussed include the development of various sources of energy, such as water power, geothermal energy in locations where volcanic phenomena at ground level cause extensive production of available heat, tidal and wind power, solar and atomic energy.

Finally, there are some important planning notes on the location and appearance of generating stations, the method of transmission used, and the arrangements for local distribution. Attention is drawn to examples of building generating stations wholly underground, to advantages and disadvantages of overhead or underground location of long-distance transmission across land, and, lastly, to the possibilities inherent in submarine direct-current transmission between different countries which may well develop during the next twenty years, based on hydraulic energy the sources of which are virtually inexhaustible while coal is a consumable capital commodity.

20.145 construction: complete structures NORFOLK CORN MILLS

Norfolk Corn Mills. Rex Wailes. (Engineering, Aug. 19, 26, 1949, pp. 189-192, 213-216.)

Paper based on notes on 9 port mills, 7 smock mills, 69 tower mills and 2 composite mills. Only one of these working today.

The paper is an interesting and thorough survey of the present condition of Norfolk corn mills. It contains 12 photographs showing the exterior of existing mills and 12 further illustrations of internal details.

20.146 construction: complete structures TWO HANGARS NEAR ROME

Two Hangars near Rome. P. L. Nervi. (The Architect and Building News, Aug. 26, 1949, pp. 198-200.)

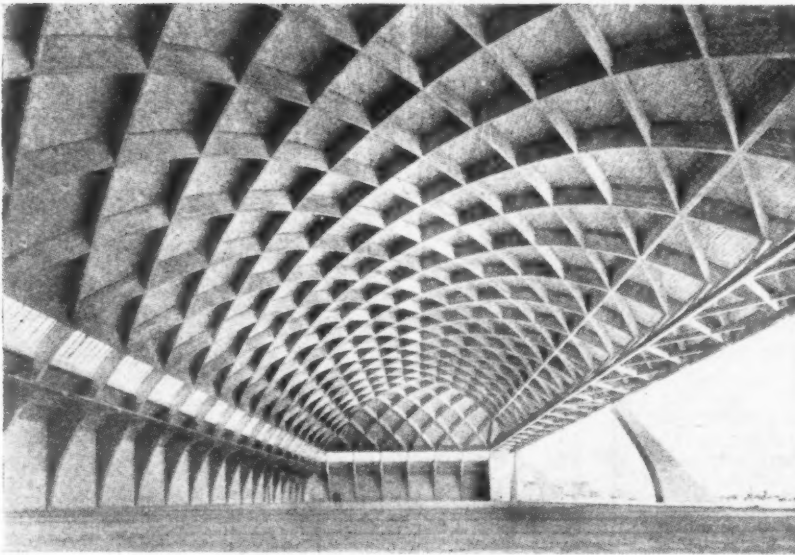
Two hangars in reinforced concrete covering clear areas of 147 ft. by 366 ft. and 120 ft. by 336 ft. respectively.

The two hangars, built during the war, are of a lamella type structure. The ribs intersect each other at 45° and are infilled with brick tiles covered with asbestos cement. The edges of the first hangar are supported on three sides by regularly spaced buttresses; on the fourth side there is only one intermediate support. Even more interesting is the second hangar, which is carried on six buttresses only, one in each corner and one in the middle of each longitudinal side.

23.112 heating and ventilation IMMERSION HEATER

Thermostats for Electrically-Heated Domestic Hot Water Supply (A.C. only). BS 1555:1949. *Electric Immersion Heaters for Domestic Hot Water Supply.* BS 1556:1949. (British Standards Institution. 2s. each.)

Two new BSS, covering electric immersion heaters and their controlling thermostats.



Lamella Type Hangar Roof. See 20.146.

Although architects are not immediately concerned with the technical details included in these specifications, they will certainly be glad to know that in specifying apparatus to comply with them they ensure a satisfactory standard of performance and safety; and the standardization of diameters and threads of fittings will eliminate much annoyance.

These sizes are:—

Heaters, without thermostat: $1\frac{1}{2}$ in. BSPT, medium fit. With or without thermostat: $2\frac{1}{2}$ in. BSPT, medium fit.
Thermostats, separately mounted: $\frac{1}{2}$ in. BSPT, medium fit.

23.113 heating and ventilation

SMALL SOLID FUEL BOILERS

Small Boiler Systems using Solid Fuel. Draft BS C of P 403.101:1949. (British Standards Institution. 3s.)

Draft code of practice covering small solid fuel boiler systems for domestic hot water and space heating.

This code of practice covers the smallest class of solid fuel boiler installation operated either by a back-boiler or small independent boiler, and providing domestic hot water without or, as is recommended, with a limited amount of space heating. Such installations are frequently installed by builders or plumbers lacking the more extensive knowledge of the heating engineer; and architects have not in all cases the knowledge to direct them. The code of practice should be of great assistance to them, for it gives, in a compact, easily understood form, all the essential information necessary for the carrying out of a successful system.

It covers materials, appliances and components, with references to the appropriate BS; design considerations, including sizes, capacities, insulation and other essential information, with very clear diagrams; erection, builder's work, testing and maintenance; whilst appendices and tables give information connected with space heating requirements, heat losses, length of draw-offs and the spacing of pipe supports.

In all, it is a very useful publication.

26.54 services and equipment: miscellaneous

ELECTRICITY FOR THE FARM

Farm and Horticultural Electrical Installa-

tions. Draft BS C of P 325:1949. (British Standards Institution. 9s.)

Draft code of practice covering all types of agricultural and horticultural electrical installations.

It is only recently that it has become generally realized that the advice of an architect is desirable in connection with the design and equipment of farms, whether new or converted; and, conversely, only recently that architects in general have taken an interest in farm design.

In the circumstances, a comprehensive code of practice in respect of electrical installations for farms will prove of as great use to architects as to electrical engineers, especially as it is very clearly written in language no more technical than it needs must be.

All branches and processes of the farm and garden in which electricity can be used are covered: milk production, crop drying, pig-keeping, poultry and egg production; fruit growing; space and soil heating for horticulture, and garden pest destruction. In each case, the requirements for heat, power and lighting are given, and the materials and layout of the installation, and the size, type and loading of the equipment is covered.

Electricity is a most valuable adjunct to farming, and is becoming, very slowly, available to more and more farms. At the same time, the particular conditions which prevail on a farm make badly considered or makeshift installations unusually dangerous. All who have to do with the building or revision of farm buildings where electrical equipment is installed should avail themselves of the help of this book.

26.55 services and equipment: miscellaneous

ELECTRIC WIRING SYSTEMS

Electric Wiring Systems (for Power, Lighting and Heating Circuits) in Buildings. BS C of P 321.101:1949. (British Standards Institution. 4s.)

Code of practice covering all aspects of electric wiring for high and medium voltages.

Although primarily the concern of the electrical engineer, this code of practice must also be of interest to the architect; the onus of preparing his specification for electrical work will be lightened by its publication. It covers all types of wiring in

general use and describes the most satisfactory systems for various classes of buildings; the proper method of installation of each type and their protection from mechanical and other damage; the special case of high-voltage discharge lamps; temporary installations; and inspection and testing.

It is clearly and concisely written.

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

QUESTIONS AND ANSWERS

3004 PARTY WALL: WAR DAMAGE

Q My Council recently acquired, compulsorily, some old blitzed terraced houses in order to extend a school site. This property has since been pulled down and the adjoining owner is now complaining that this has left the gable wall of his house exposed, and that rain is penetrating through it. Can he claim an easement in respect of the weather protection previously afforded by the adjoining house; in other words, is it the Council's responsibility, to render or otherwise protect the wall against damp penetration?

The wall in question is definitely a party wall; the blitzed property was at the end of a row of terrace houses and was compulsorily acquired by the Local Authority under the powers given by the Town and Country Planning Act, 1947.

If my Council are liable to waterproof the party wall which is now exposed to the weather, I presume re-imbursement for the cost of this work can be claimed from the War Damage Commission since under the Act above referred to the rights of the former owner, included his claim to "cost of works" or "value payment" are now vested in the Council, but perhaps you would confirm this?

A The problem is by no means simple, and is not free from doubt, but as we see it the effect of pulling down the Council's property is that the party wall has been converted, at any rate for the time being, into an external wall for which it was not intended and is not suitable.

In our opinion, although the adjoining owner probably has a right of support as against the Council, yet apart from some express covenant or agreement, I am not aware of any right by which the adjoining owner can compel the Council to keep his premises in repair or watertight.

With regard to the suggestion that the cost of waterproofing the wall could be claimed by the Council against the War Damage Commission, we doubt this, since it would not appear that the present condition of the wall is due to war damage but rather to the subsequent action of the Council in pulling down their property. If the War Damage Claim has in fact been categorised as a "value payment," then manifestly no claim for repairing the wall can be made against the War Damage Commission. If the category is "cost of works," we recommend an approach to the War Damage Commission before taking any step towards waterproofing the wall, in order to ascertain whether the claim would be allowed.

CURRENT MARKET PRICES OF MATERIALS

BY DAVIS, BELFIELD AND EVEREST, Chartered Quantity Surveyors

Rates of Wages last rose on October 3, 1949, and are now as follows:—

LONDON DISTRICT				Craftsmen.	Labourers.
Within 12 miles radius	..	..	..	2s. 11½d.	2s. 5d.
From 12-15 „ „	..	..	..	2s. 11d.	2s. 4½d.
LIVERPOOL and DISTRICT				2s. 11½d.	2s. 5d.
GRADE CLASSIFICATIONS				A	A¹
Craftsmen..	2s. 10d.	2s. 9½d.	2s. 9d.	2s. 8½d.	
Labourers..	2s. 3½d.	2s. 3½d.	2s. 3d.	2s. 2½d.	

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

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

Prices vary according to quality and the quantity ordered.

Those given below are average market prices and include delivery in the London area, except where otherwise stated, but do not include overhead charges and profit for the General Contractor.

CONCRETOR

Cements

- Prices for Portland Cement include for delivery to Charing Cross.
- * In non-returnable paper bags charged at 9/- net per ton or 6d. each net per bag in lots of less than 1 ton.
 - * In non-returnable jute sacks charged at 9/- net per ton or 6d. each net per sack in lots of less than 1 ton.
 - * In returnable jute sacks charged at the rate of 35/8 net per ton of cement or 1/9½ net per sack in lots of less than 1 ton. Credit on return at 1/6 net per sack.
 - * In returnable cotton sacks charged at the rate of 66/8 net per ton or 3/4 each sack in lots of less than 1 ton. Credit on return at 3/- net per sack.
- † Supplied in packages charged 8/- per ton extra.

	6 tons and over	In 80-ton freights F.A.S. Safe Wharf in River Thames London Area.
* Portland to B.S. 12	62/6	60/-
* Rapid hardening to B.S. 12	68/6	66/-
† Aquacrete water repellent	94/-	
† "417" cement (quick setting extra rapid hardening)	85/-	
† Colorcrete, red, buff and khaki	104/-	
Colorcrete, other shades. 1 ton lots.	182/-	to 406/- (paper bags free)
Snowcrete	(Minimum 1-ton lots)	233/- (paper bags free)
	1-9 cwt.	10-19 cwt.
Ciment Fondu to B.S. 915 delivered London area	16/3	14/7
		1 ton and upwards per ton 235/6

Aggregate and Sands (Full Loads)

2" Unscreened ballast to B.S. 882, Table 5	per yard cube	15/5
½" (Down) Washed, crushed and graded shingle to B.S. 882, Table 2	per yard cube	14/5
½" (Down) Ditto	per yard cube	15/5
2" Broken brick	per yard cube	14/6
½" Ditto	per yard cube	16/-
Washed pan breeze	per yard cube	10/6
½" Sharp washed sand to B.S. 882, Table 3	per yard cube	16/4
White Silver Sand for white cement (one ton lots)—		
Fine	per yard cube	66/-
Coarse	per yard cube	48/9
(For Sands for Bricklaying and Plastering, see respective trades)		

Pavings

Brick hardcore	per yard cube	6/6
Concrete ditto	per yard cube	6/6
Clean furnace clinker and boiler ashes	per yard cube	3/6
2" coarse gravel for paths	per yard cube	17/6
½" fine ditto	per yard cube	19/-
Clean granite chippings to B.S. 1201, Table 4 (in 5-ton loads)	per ton	38/6
Ditto (in 5-ton loads) (Immediate delivery)	per ton	41/6

Reinforcement

Home trade maximum basis price for mild steel rods to B.S. 785, ½" diameter and upwards, ex mills delivered to station or siding	per ton	£21 13 6
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CONCRETOR—(continued)

Reinforcement—continued

Extras for:—				
Under ½" to ¾" diameter	per ton	15 0		
Ditto ¾" and over ¾" diameter	per ton	£1 2 6		
½" and over ½" diameter	per ton	£1 10 0		
¾" and over ¾" diameter	per ton	£1 17 6		
1" and over 1" diameter	per ton	£2 5 0		
1½" and over 1½" diameter	per ton	£2 12 6		
2" diameter	per ton	£3 0 0		
Under ½" to ¾" diameter	per ton	£4 10 0		
Lengths over 40 ft. to 45 ft.	per ton	15 0		
" " 45 ft. to 50 ft.	per ton	£1 2 6		
" " 50 ft. (as 50 ft. plus per ft.)	per ton	2 6		

Fabric Reinforcement

16.35 lb. 9.32 lb. 5.67 lb. 1.83 lb.				
Steel wire mesh fabric to B.S. 1221, Part A per yd. super. 5/11½ 3/5½ 2/1 1/1½				
10.76 lb. 7.32 lb. 5.17 lb. 1.58 lb.				
Steel wire mesh fabric to B.S. 1221, Part B per yd. super. 3/11½ 2/8½ 1/11½ 1/0½				

Sundries

Retarding liquid, in 5-gallon drums (for exposing aggregate)	per gallon	26/8		
Ditto (for obtaining a bond)	per gallon	16/8		
Ex Warehouse, Southwark Bridge. Drums chargeable and credited, if returned.				

BRICKLAYER

Common Bricks

Third stocks	per 1,000	109/6
Rough stocks	per 1,000	129/6
Mild stocks	per 1,000	181/6
Sand limes	per 1,000	86/-
Phorpres pressed Flettons	per 1,000	85/-
Phorpres keyed Flettons	per 1,000	87/-

Facing Bricks

Hand-selected sand limes	per 1,000	121/-
Phorpres rustic Flettons	per 1,000	105/-
Stocks, first hard	per 1,000	216/6
Stocks, second hard	per 1,000	206/6
Sandfaced, hand made reds	per 1,000	244/-
Red rubbers (9½")	per 100	55/-
† White facings	per 1,000	105/-
† Coloured facings (creams, buffs, browns and terracotta)	per 1,000	125/-
† Dunbriks (concrete), greystone facings	per 1,000	137/6
† Dunbriks (concrete) various colours	per 1,000	155/-
† Southwater pressed sandfaced reds	per 1,000	187/6
† Dorking pressed sandfaced multicoloured facings	per 1,000	165/-

Engineering Bricks

† Lingfield engineering wirecuts	per 1,000	127/6
† Southwater or Lunsford engineering No. 1 (first quality red pressed)	per 1,000	215/-
† Southwater or Lunsford engineering No. 2 (second quality red pressed)	per 1,000	185/-
† 2½" White Engineering bricks to B.S. 187	per 1,000	120/-
* Blue pressed bricks to B.S. 1301	per 1,000	160/-
* Plus 110% plusage, 5 per cent. builders cash discount.		
† Prices ex works—Haulage extra.		

Firebricks

Firebricks, best Stourbridge, 2½"	per 1,000	58/-
Ditto, 3"	per 1,000	68/3

BRICKLAYER—(continued)

Glazed Bricks

		Best quality	Seconds
		£ s. d.	£ s. d.
White, Ivory or Brown, 9" × 2½" × 4½" :—			
Headers	per 1,000	39 10 0	37 10 0
Stretchers	per 1,000	40 0 0	38 0 0
Buff or Cream ditto :—			
Headers	per 1,000	41 10 0	39 10 0
Stretchers	per 1,000	42 0 0	40 0 0

Prices for glazed bricks + 22½% seconds.
+ 27½% o. bests.

Limes and Sands

		1 ton lots.
		£ s. d.
Lime, greystone, to B.S. 890	per ton	84/9
Lime, chalk, ditto	per ton	84/9
Lime, hydrated, ditto	per ton	89/6
Lime, blue lias	per cwt.	7/6 (small quantities)

Washed pit sand to B.S. 1200 per yard cube 16/4
(For cements, see "Concretor.")
* Including paper bags.

Hire of jute sacks charged at 1/6 and credited at 1/6. If left, charged at 1/9.

Sundries

10 s.w. gauge galvanized butterfly type wall ties to B.S. 1243	per 1,000	87/3
12 s.w. gauge ditto	per 1,000	74/3
Wall ties, self coloured, 8" × ½" × ½", to B.S. 1243	per cwt.	58/3
Wall ties, galvanized, 8" × ½" × ½", to B.S. 1243	per cwt.	76/3
Damp proof course slates :—	Imported Welsh	
Size 14" × 9"	per 100	43/3
Size 14" × 4½"	per 100	20/9
Hessian based bitumen damp course to B.S. 743	per yard super	4/6
Airbricks :—		
Red and buff terra-cotta each 1/—	2/—	5/4
Black cast-iron School Board pattern airbricks each 1/8	2/11	4/8
Galvanized ditto each 2/5	4/—	6/7
Black hit-and-miss cast-iron ventilators each 1/9	3/1	4/1
Galvanized ditto each 2/6	4/10	6/2
Buff terra-cotta chimney pots 1' 0" 1' 6" 2' 0" 2' 6" 3' 6" 5' 0"	5/7 6/8 9/8 12/10 20/5	50/2
Fireclay (loose) per ton	118/6	
Wall reinforcement supplied in standard rolls containing 25 yards lineal		
12" wide black japanned	per roll	3/—
12½" wide black japanned	per roll	3/8½
† Greater widths pro rata 2½" price, carriage paid on orders of £7.		
Discount for quantities.		

Partitions, etc.

		2"	2½"	3"	4"
		3/6	4/—	4/6	6/—
Clinker	per yard super				
Hollow block to B.S. 1190	per yard super	3/1	3/4	4/—	4/7 (4½")
Plaster	per yard super	6/6	7/3	8/5	—
Moler	per yard super	7/6	9/—	10/—	11/3
11" Wood Wool slabs	per yard super	from	4/2	to 4/10	
12" Wood Wool slabs	per yard super	from	6/7	to 7/6½	
13" Wood Wool slabs	per yard super	from	8/6	to 9/8½	

† Prices according to quantity ordered.

PAVIOR

Red quarry tiles, 6" × 6" × ½", to B.S. 1286	per yard super	10/9
Ditto 6" × 6" × ½", to B.S. 1286	per yard super	9/6
Buff quarry tiles 6" × 6" × ½", to B.S. 1286	per yard super	12/—
Ditto 6" × 6" × ½", to B.S. 1286	per yard super	10/9
Hard red paving bricks, 2"	per 1,000	326/—
Ditto 1½"	per 1,000	309/6

DRAINLAYER

Clay Land Drain Pipes to B.S. 1196

		3"	4"	6"
		138/6	179/—	372/—
Pipes in 12" lengths	per 1,000			

(Delivered in full loads Central London Area.)

Salt Glazed Stoneware Pipes and Fittings

		Standard List +
		Orders under 2 tons 100 pieces upwards
		Orders for 2 tons and over
		35% less 15% 55% less 15% 65% less 15%
Seconds Quality	35%	55%
Best Quality	42½%	62½%
British Standard Quality	42½%	62½%
Tested Quality	60%	80%
British Standard Tested	67½%	87½%

Cast Iron Drain Pipes and Fittings

Socket and spigot pipes to B.S. 437 :—		9 fts.	6 fts.	4 fts.	3 fts.	2 fts.
Weight per 9 ft	Size	per yd.	per yd.	each	each	each
1	1 17 4"	16/6	18/1	29/—	22/2	17/11
2	0 1 6"	24/7	29/1	46/8	37/3	28/1
3	3 21 9"	44/5	58/1	100/4	76/7	—

DRAINLAYER—(continued)

Cast-Iron Drain Pipes and Fittings—continued

Tonnage Allowances :—

Orders up to 2 tons nett.

		4"	6"	9"
*Bends (short radius) as Fig. No. 4	each	6/3	13/—	40/—
*Single junctions as Fig. No. 18	each	11/—	22/6	69/—
*Intercepting traps as Fig. No. 33	each	30/—	50/—	123/—
*Gullies ordinary trapped "P"	each	14/6	—	—
*Extra for vertical back inlet 4"	each	4/3	—	—
*Grease gully trap	each	121/—	—	—
*H.M.O.W. large socket gully trap with 9" gully top and heavy grating and one back inlet	each	26/3	—	—

* These prices are subject to 83½% plusage.

Channels in Brown Glazed Ware.

Standard list + same discounts as "Best" quality salt-glazed Stoneware pipes.

White Glazed Channels

Orders under 20 pieces. Standard list + 37½%.

Concrete Pipes, etc.

		12"	24"	48"
Concrete pipes to B.S. 556				
With O.G. joints	per foot run	3/10	11/3	38/4
Bends	each	11/6	33/9	115/—
Junctions	each	32/—	63/6	—
Double junctions	each	—	—	—
Concrete pipes to B.S. 556				
With spigot and socket joints	per foot run	4/3	12/4	48/3
Bends	each	12/9	37/—	126/9
Junctions	each	32/—	63/6	—
Double junctions	each	—	—	—
Concrete road gully to B.S. 556				
18" diameter and 42" deep	each	62/6	—	—
Precast concrete manholes to B.S. 539				
		27"	48"	72"
Precast concrete manhole chamber rings	per foot run	13/6	38/4	86/9
6" precast concrete cover slabs	each	35/—	65/6	—

* Manhole covers and frames

To B.S. 497

		Size of load	Unit price
C.I. coated double triangular manhole cover and frame, 22" dia. clear opening to B.S. 497, Grade A		35 tons	110/—
C.I. coated circular manhole cover and frame, 22" dia. clear opening to B.S. 497, Grade B		5 tons	60/—
		Size of load	Single seal Flat type
C.I. coated manhole cover and frame, 18" × 18" to B.S. 497, Grade C	1 ton	24/6	38/—
Ditto galvanised ditto	1 ton	36/—	53/6
Ditto coated manhole cover and frame, 24" × 18" to B.S. 497, Grade C	1 ton	27/—	40/—
Ditto galvanised ditto	1 ton	40/6	60/—
Ditto coated manhole cover and frame, 24" × 24" to B.S. 497, Grade C	1 ton	38/6	58/6
Ditto galvanised ditto	1 ton	59/6	89/6
* Subject to plus 2½% on coated, and plus 2½% plus 7½% on galvanised.			

MASON

Yorkstone

Building quality Robin Hood and Woodkirk Blue Stone.

Blocks scrapped, random sizes	per foot cube	8/11
Add for blocks to dimension sizes	per foot cube	1/1 (each dimension)
Templates with sawn beds, edges rough (up to 4 ft. super and not over 2' 6" long)	per foot cube	10/—
Templates with sawn beds, sawn one edge, per foot cube		11/6
Templates with sawn beds, sawn two edges, per foot cube		13/8
Price f.o.r. Yorkshire, railway rate to London Station per ton. (Minimum 4-ton loads)		38/7

Artificial Stone to B.S. 1217

6" × 3" Copings and sills	per foot run	2/3
6" × 6" Copings and sills	per foot run	4/6
9" × 3" Copings and sills	per foot run	3/6
9" × 6" Copings and sills	per foot run	6/9
12" × 3" Copings and sills	per foot run	4/6
12" × 6" Copings and sills	per foot run	9/—
Cornices according to detail, per foot cube (from)		15/—

MASON—(continued)

Bath Stone in random blocks

Monk's Park " " " " " " " "	per foot cube	5/4
St. Aldhelm Box Ground " " " " " "	per foot cube	6/4
Delivered on rail at South Lambeth station.		

Portland Stone in random blocks, average 20 feet

Whitbed " " " " " " " "	per foot cube	6/1 1/4
Delivered on rail at Nine Elms Station.		

SLATER, TILER AND ROOFER

Best Bangor Slates to B.S. 680

		£	s.	d.
24" x 12" " " " " " "	per 1,000 actual	95	5	0
20" x 10" " " " " " "	per 1,000 actual	63	0	0
Prices include for delivery to site in lots of 1,000 and upwards.				

Tiles

Hand-made sandfaced 10 1/2" x 6 1/2" red roofing tiles	per 1,000	189/-
Machine-made sandfaced best red tiles with continuous ribs, 10 1/2" x 6 1/2" " "	per 1,000	169/3
Berkshire hand-made red Pantiles, 14 1/2" x 10" " "	per 100	70/-
Berkshire hand-made Dun coloured Pantiles, 14 1/2" x 10" " "	per 100	80/6

Concrete Tiles

Plain tiles, 10 1/2" x 6 1/2" " " " "	per 1,000	90/- to 95/-
Interlocking tiles, 15" x 9" " " " "	per 1,000	£14 10s.
Double Roman tiles " " " " " "	per 1,000	£28 to £30

Felt

Slaters or sarking felt to B.S. 747 " " " "	per yard run	1/3
Roofing felt (1-ply bitumen) to B.S. 747, Part I " " " "	per yard sup.	1/8
Bituminous hair felt to B.S. 747, Part II " " " "	per roll	76/-
All rolls 25 yards long by 32" wide.		

CARPENTER AND JOINER

1/2" Imported Insulating board Up to 5,000 sq. ft.	5,000 to 10,000 sq. ft.	
(per 100 sq. ft.) " " " "		37/8 36/-
1/2" Imported Insulating board 15,000 to 50,000 sq. ft.	Over 50,000 sq. ft.	
(per 100 sq. ft.) " " " "		33/9 31/8
1/2" Imported Hard-board (per 100 sq. ft.) Up to 5,000 sq. ft.	5,000 to 10,000 sq. ft.	
1/2" Imported Hard-board (per 100 sq. ft.) " " " "		46/6 45/-
1/2" Imported Hard-board (per 100 sq. ft.) 10,000 to 30,000 sq. ft.	Over 30,000 sq. ft.	
1/2" Imported Hard-board (per 100 sq. ft.) " " " "		62/6 61/3
1/2" Imported Hard-board (per 100 sq. ft.) " " " "		43/- 41/-
1/2" Imported Hard-board (per 100 sq. ft.) " " " "		58/6 58/-
	25-75 yards	150-300 yards
1/2" Fireproof plaster board per yard super	2/7 1/2	2/3 1/2
1/2" Ditto " " " "	2/5 1/2	2/1 1/2
2" Paper Faced Linen Tape, per 100 yard roll	—	6/6
Joint filler " " " "	—	-/4

Asbestos-cement and Asbestos Products

*6" corrugated sheets, grey " " " "	per yard super	3/6
*Standard 3" corrugated sheets, grey " " " "	per yard super	3/2 1/2
* Prices are for minimum two-ton loads, and are subject to 5% trade discount and 1 1/4% discount.		
1 1/2" Semi compressed flat building sheets, grey, " " " "	per yard super	1/7 1/2
1 1/2" Ditto " " " " " "	per yard super	2/4
1 1/2" Asbestos wall board (in sheets 8' 0" x 4' 0") " " " "	per yard super	5/4
1 1/2" Ditto " " " " " "	per yard super	4/-
1 1/2" Asbestos wood (in sheets 8' 0" x 4' 0") " " " "	per yard super	3/0 1/2
Prices are for orders of 2 tons and over. Subject to 5% trade discount and 1 1/4% discount.		

Sundries

" Sisalkraft " standard grade " " " "	per yard sup.	-/7
" Sisalkraft " subsoil grade " " " "	per yard sup.	-/4
" Cabots " quilts (Ex Works) :—		
Triple ply 1/2" thick " " " "	2/4 per yard super	
Double ply 1/2" thick " " " "	2/1 " " "	
Single ply 1/2" thick " " " "	1/10 " " "	
All rolls 25 yds. long by 36" wide. Quantities less than complete roll 2d. extra per yard.		

CARPENTER AND JOINER—(continued)

Sundries—continued

" Fibreglass " sound deadening quilt " " " "	per yard super	
Up to 500 yds. Over 500 yds.		
Light grade " " " " " "	2/3 1/2	2/3
Medium grade " " " " " "	2/8 1/2	2/8
In rolls 27 yards long by 36" wide.		
" Fibreglass " bitumen bonded mats " " " "	per yard super	1/8 1/2
In standard rolls " " " " " "		
In rolls 12 1/2 yards long by 42" wide.		
Slagwool (loose in 1" thickness) " " " "	per yard super	1/4
Home Grown Timber Prices. See Statutory Rules and Orders, 1947, No. 94.		
Imported Softwood Prices. See Statutory Instruments, 1949 No. 1079.		
Imported Hardwood Prices. See Statutory Instruments, 1949, Nos. 497 and 832.		
Plywood Prices. See Statutory Instruments, 1949, No. 498		
These may be obtained on application to H.M. Stationary Office, York House, Kingsway, W.C.2.		

Standard Panelled and Glazed Wood Doors

Type 4 size 2' 0" x 6' 6" x 1 1/2" " " " "	each	40/9
size 2' 6" x 6' 6" x 1 1/2" " " " "	each	43/6
Type 2 x G size 2' 6" x 6' 6" x 2" " " " "	each	49/9
size 2' 9" x 6' 6" x 2" " " " "	each	51/3
Type 4 x G size 2' 6" x 6' 6" x 2" " " " "	each	55/-
size 2' 9" x 6' 6" x 2" " " " "	each	57/3
* In lots of from 1 to 11 inclusive.		

Standard E.J.M.A. Wood Windows

INF 26 size 2' 6" x 1' 6 1/2" " " " "	each	25/4
4V 36 size 3' 6" x 7' 10" " " " "	each	113/9
IV 40 size 4' 0" x 2' 2 1/2" " " " "	each	33/1
3T 46 size 4' 6" x 5' 11 1/2" " " " "	each	116/8
4T 50 size 5' 0" x 7' 10" " " " "	each	139/8

Standard E.J.M.A. Kitchen Units

No. 1 size 3' 0" x 3' 6" x 1' 7" " " " "	each	191/8
No. 2 size 3' 0" x 3' 6" x 1' 7" " " " "	each	128/8
No. 4 size 3' 0" x 1' 9" x 1' 7" " " " "	each	115/10
No. 5 size 3' 10" x 1' 9" x 1' 7" " " " "	each	99/6
No. 7 size 6' 6" x 1' 9" x 1' 7" " " " "	each	186/-

Corkboard, 1" thick " " " "	ft. sup.	
Cut steel clasp nails to B.S. 1202 " " " "	1" per cwt.	56/3
" " " " " " " "	3" per cwt.	47/3
Cut steel floor brads to B.S. 1202 " " " "	2" per cwt.	48/6
Bright oval wire nails to B.S. 1202 " " " "	1" per cwt.	50/4
Galvanized wire staples with slice cut points, 1" x 12 gauge " " " "	per cwt.	67/3

STEEL AND IRONWORKER

Basis price for rolled steel joist sections, 5" x 4 1/2" to 16" x 6" in 10 ft. to 50 ft. lengths... ex mills per ton	20	3	6
Extra for sizes :—			
9" x 7" " " " "	Add per ton	5	0
6" x 3" " " " "	" " "	7	6
3 1/2" x 3 1/2", 4" x 4", 5" x 3", 10" x 8", 12" x 8", 14" x 8", 16" x 8", 18" x 6", 18" x 7", 18" x 8", 20" x 6 1/2", 20" x 7 1/2" " " " "	" " "	10	0
5" x 2 1/2", 22" x 7" " " " "	" " "	15	0
4" x 2 1/2", 4" x 3", 24" x 7 1/2" " " " "	" " "	1	0
3" x 3" " " " "	" " "	1	5
4 1/2" x 1 1/2" " " " "	" " "	1	10
4" x 1 1/2" " " " "	" " "	2	10
3" x 1 1/2" " " " "	" " "	3	10
Basis price for angles " " " "	ex mills per ton	19	13
" " " " " " " "	" " "	20	13
" " " " " " " "	" " "	21	13
All delivered Station or Siding.			

PLASTERER

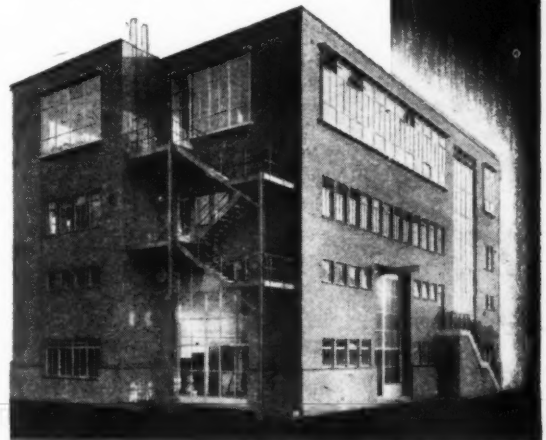
Plaster and Cement

	1-ton loads	6-ton loads
Thistle (browning) to B.S. 1191, Class B per ton	118/6	99/3
Gypstone to B.S. 1191, Class B per ton	80/6	
Paristone (haired) to B.S. 1191, Class B per ton	83/-	ex Works,
Ditto (unhaired) " " " "	80/6	Kent.
Glastone to B.S. 1191, Class C per ton	83/-	
Sirapite (coarse) to B.S. 1191, Class C per ton	115/6	98/3
Ditto (fine) to B.S. 1191, Class C per ton	123/6	104/3
Keene's Pink to B.S. 1191, Class D per ton	161/9	
Keene's White to B.S. 1191, Class D per ton	166/9	
Cullamix (Tyrolean Finish), 1-ton lots and upwards " " " "	per ton from	154/6 to 183/-



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PLASTERER—(continued)

Sundries			
Sharp washed sand to B.S. 1198	per yard cube	16/4	
Cow Hair	per cwt.	84/6	
Goat Hair	per cwt.	102/6	
Expanded metal lathing, 9' 0" x 2' 0" x $\frac{1}{8}$ " mesh x 26 gauge	per sheet	5/-	
	25-75 yards	150-300 yards	Over 600 yards
1" Plasterboard (plaster lath)	per yard super	2/2 $\frac{1}{2}$	1/10 $\frac{1}{2}$ 1/8 $\frac{1}{2}$
Galvanized lath nails	per cwt.	90/-	
Hessian Soring cloth in 100-yard rolls, 3 $\frac{1}{2}$ " wide	per roll	6/3	

Wall Tiles

The following prices are subject to 75 per cent. addition:

Standard quality.		
White, glazed 6" x 6" x $\frac{1}{2}$ "	per yard super	8/6
Cream "	per yard super	9/-
Angle beads (1 $\frac{1}{2}$ " wide)	per yard run	1/0 $\frac{1}{2}$
Rounded edge tiles (white glazed)	per yard run	1/8
" " (cream glazed)	per yard run	1/9
Coloured enamelled bright glazed, 6" x 6" x $\frac{1}{2}$ "	per yard super	14/3
Angle beads (1 $\frac{1}{2}$ " wide)	per yard run	1/2 $\frac{1}{2}$
Rounded edge tiles	per yard run	2/9
Eggshell glazed tiles, 6" x 6" x $\frac{1}{2}$ "	per yard super	15/-
Angle beads (1 $\frac{1}{2}$ " wide)	per yard run	1/4 $\frac{1}{2}$
Rounded edge tiles	per yard run	2/10

PLUMBER

Lead

3 $\frac{1}{2}$ lb. and upwards milled sheet lead in quantities of 5 cwt. to 1 ton in sheets to B.S. 1178	per cwt.	142/-
Lead ternary alloy, No. 2 quality extra over sheet lead or lead pipe	per cwt.	16/9
Allowance for old lead delivered to merchant or manufacturer	per cwt.	106/3

Cast Iron Goods

Percentage Adjustment.
on List No. 3100 A.B.
1/2/40

Rainwater Goods (painted or unpainted)	Plus 72 $\frac{1}{2}$ %
Soil goods (coated or uncoated)	Plus 72 $\frac{1}{2}$ %

Mild Steel Rainwater Goods

		New Standard List
Gutters	(under 100 lengths)	less 27 $\frac{1}{2}$ %
Pipes and Fittings	(" ")	less 27 $\frac{1}{2}$ %

Asbestos-Cement Rainwater Goods

The following prices are subject to 12 $\frac{1}{2}$ % trade discount and 1 $\frac{1}{2}$ % discount.

Orders over £30 are subject to 17 $\frac{1}{2}$ % trade discount and 1 $\frac{1}{2}$ % discount.

Rainwater Pipes.

Prices are for 6' 0" lengths, but 10' 0" lengths are available in 2", 2 $\frac{1}{2}$ ", 3" and 4" diameters at same prices. Short lengths up to 2' 0" are charged as 1 yard. From 2' 0" to 4' 0" charged as 1 $\frac{1}{2}$ yards. From 4' 0" to 6' 0" charged as 2 yards. Over 6' 0" charged as 10' 0"

Round Pipes.

2"	per yard run	2/4
2 $\frac{1}{2}$ "	per yard run	2/7 $\frac{1}{2}$
3"	per yard run	3/2
4"	per yard run	4/4
6"	per yard run	9/1

Gutters.

Short lengths of gutter up to 2' 0" charged as 1 yard; from 2' 0" to 4' 0" as 1 $\frac{1}{2}$ yards, and over 4' 0" as 2 yards.

Half round gutters	3"	4"	4 $\frac{1}{2}$ "	5"	6"	8"
per yard run	1/8	2/-	2/1	2/6 $\frac{1}{2}$	3/5	4/2 $\frac{1}{2}$
Ogee gutters per yard run	—	2/6 $\frac{1}{2}$	2/7 $\frac{1}{2}$	3/2	3/10 $\frac{1}{2}$	5/-

INTERNAL PLUMBER

Lead pipe in coils, 5 cwt. and upwards, to B.S. 602	per cwt.	143/3
Lead soil pipe	per cwt.	146/3
Plumber's solder	per cwt.	377/6
Tinman's solder	per cwt.	467/-
Drawn lead traps with brass screw eye, 6 lb., to B.S. 504	1" 1 $\frac{1}{2}$ " 1 $\frac{1}{2}$ " 2"	
S. trap	each	5/5 6/4 7/10 11/3
P. trap	each	4/9 5/3 6/6 9/1
Extra for 3" deep seal "S" trap	each	1/4 1/6 1/9 2/2
Extra for 3" deep seal "P" trap	each	-/11 1/1 1/1 1/6

INTERNAL PLUMBER—(continued)

Screwed and Socketed Steel Tubes and Fittings for Gas, Water and Steam, etc.

Fittings and flanges and tubes ordered in long random lengths are subject to the following trade discounts:—

Tubes :	$\frac{1}{2}$ " to 4"			
Class A	43 $\frac{1}{2}$ %	Fittings :		
" B	36 $\frac{1}{2}$ %	Lightweight	17 $\frac{1}{2}$ %	
Galvanized Class A	25 $\frac{1}{2}$ %	Heavyweight	10%	
" " B	19 $\frac{1}{2}$ %			
Flanges :				
	$\frac{1}{2}$ " to 2"	$2\frac{1}{2}$ "	3" to 4"	
Lightweight (Table D)	4 $\frac{1}{2}$ %	37 $\frac{1}{2}$ %	51 $\frac{1}{2}$ %	
Heavyweight (Table E)	Plus 14 $\frac{1}{2}$ % less 27 $\frac{1}{2}$ %		42 $\frac{1}{2}$ %	

COPPERSMITH AND ZINC WORKER

Copper

Hot rolled copper sheeting in 5-cwt. lots (4' x 2' sheets), to B.S. 899	16 wire gauge	per lb.	1/10 $\frac{1}{2}$
Ditto	24 wire gauge	per lb.	2/0 $\frac{3}{4}$
Copper wire, 10, 12 and 14 gauge (over 2 cwt.)		per lb.	1/10 $\frac{1}{2}$
Copper nails		per lb.	1/10 $\frac{1}{2}$

GLAZIER

Sheet Glass, cut to size (ordinary glazing quality), to B.S. 952, Section A. For quantities exceeding 500 ft. super.

24 oz.	per foot super	5 $\frac{1}{2}$ d.
26 oz.	per foot super	7 $\frac{1}{2}$ d.
32 oz.	per foot super	9 $\frac{1}{2}$ d.

Polished Plate glass, ordinary substance, approximately $\frac{1}{8}$ " to B.S. 952, Section A.

In plates not exceeding:	Glazing quality	Selected glazing quality	Silvering quality
2 ft. super	2/8	2/10	3/4
3 ft. super	3/-	3/5	4/1
5 ft. super	3/2	3/10	4/7
*45 ft. super	3/9	4/1	5/7
*100 ft. super	4/5	5/7	7/2

* Extra sizes, i.e., plates exceeding 100 ft. super or 160 in. long, or 96 in. wide, at higher prices.

$\frac{1}{8}$ " figured rolled and cathedral, to B.S. 952, Section B—untinted	7 $\frac{1}{2}$ d.	per foot super
" tinted	10 $\frac{1}{2}$ d.	per foot super
$\frac{1}{8}$ " rolled plate, to B.S. 952, Section B	7 $\frac{1}{2}$ d.	per foot super
$\frac{1}{8}$ " or $\frac{1}{4}$ " rolled plate, " "	8 $\frac{1}{2}$ d.	per foot super
$\frac{1}{8}$ " or $\frac{1}{4}$ " rough cast, " "	8 $\frac{1}{2}$ d.	per foot super
Prismatic, to B.S. 952, Section D	1/2 $\frac{1}{2}$ d.	per foot super
$\frac{1}{8}$ " wired cast, " "	9 $\frac{1}{2}$ d.	per foot super
$\frac{1}{8}$ " Georgian wired cast, " "	10 $\frac{1}{2}$ d.	per foot super
$\frac{1}{8}$ " polished wired, " "	3/10 $\frac{1}{2}$ d.	per foot super
$\frac{1}{8}$ " wired arctic, " "	1/8d.	per foot super

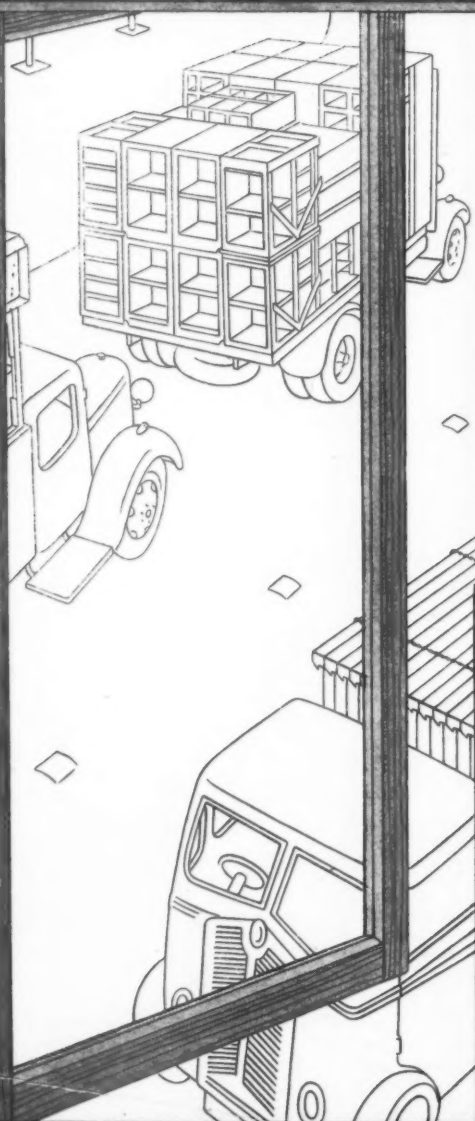
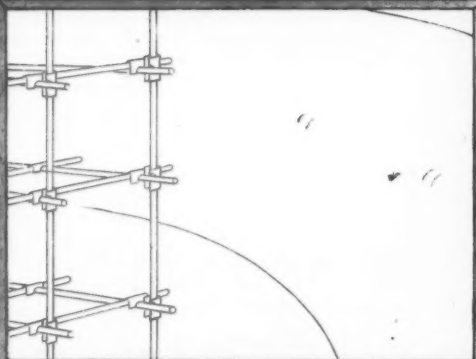
Hollow glass blocks, to B.S. 952, Section D:—	
P.B.2. 5 $\frac{1}{2}$ " x 5 $\frac{1}{2}$ " x 3 $\frac{1}{2}$ "	2/6 each
P.B.3. 7 $\frac{1}{2}$ " x 7 $\frac{1}{2}$ " x 3 $\frac{1}{2}$ "	3/10 each
P.B.32. 7 $\frac{1}{2}$ " x 7 $\frac{1}{2}$ " x 3 $\frac{1}{2}$ "	3/10 each

Radiussed corner blocks to match up with:—

P.B.2	4/6 each
P.B.3 or 32	6/- each

PAINTER

Snowcem paint (in free air-tight metal containers)	per cwt.	56/-
White ceiling distemper	per cwt.	24/6
Washable distemper	per cwt. from	82/-
Ready mixed white lead paint (best), semi-gloss, per 32 lb.	per gallon	43/6
Aluminium paint (best quality)	per gallon	29/-
White enamel paint	per gallon	39/-
Stiff white lead (genuine English stack process, 1 ton lots, 1 cwt. kegs)	per cwt.	135/6
Liquid driers, best Terebene	per gallon	18/-
Knotting	per gallon	25/-
Oil stain (scombe)	per lb.	3/4 $\frac{1}{2}$
Varnish (outside quality), copal oak	per gallon	28/-
" " " general oak	per gallon	24/-
" " " egg shell flattening	per gallon	29/6
Turpentine, genuine American, 6-gallon lots	per gallon	—
" substitute	per gallon	3/8
Linseed Oil Putty	per cwt.	48/3
Ferramastic (14 lb. kegs)	per cwt.	63/6
Size, in 1 S, best quality	per lb.	2/4



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J O I N E R Y

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

THE INDUSTRY

By Brian Grant

UNBREAKABLE PLUGS

Sanders unbreakable plugs were first introduced about twelve years ago and referred to in the JOURNAL at that time. As they are made of a rubber base composition, their production has been restricted, but they are now freely available, and although the price is comparatively high (63s. a dozen in the 15 amp. size) there are many industrial or even domestic uses in which they should ultimately show a saving. So far as life is concerned the only evidence I can offer is that the sample sent to me in 1937 was used on an inspection lamp in a public garage and was still doing its job in 1946, and for all I know still is.

Since the plug is fairly flexible it can be dropped or run over by vehicles without breaking. See the photograph, which shows the distortion produced by a 7½-ton bus, the only damage being that the terminal cover was forced out of position, though this is a spring-on cover and was replaced. Available in 5 and 15 amp. sizes for sockets to BS 546, this plug should be useful on nearly all industrial jobs where portable equipment is used, for with the comparatively brittle normal plug the cost of replacements is often high, and damaged plugs lead to much terse comment from HM Factory Inspectors. In the house they would probably be worth while on vacuum cleaners or electric irons or any other much transported equipment. (W. Sanders & Co. (Wednesbury), Ltd., Falcon Electrical Works, Wednesbury. Staffs.)

BUSINESS EFFICIENCY

While it may be true that the American architect is a "completely efficient business machine" (see the report of the Building Industry team just back from the US), there is little doubt that most of us over here hardly take the purely mechanical side of our office organization as seriously as we should. All of us then, might well take a trip to next month's Business Efficiency Exhibition which opens, in the bit of Olympia not occupied by the Building Exhibition, on November 9, and stays open until the 19th. As the Building Exhibition starts on the 17th, it should be possible to have a quick glance at the Business Efficiency show during the three days overlap. A large proportion of the equipment to be shown is of the elaborate type suitable only for large scale industrialists, but there is still a fair amount of stuff suitable for the small office. Since everything in my own binding cases tears sooner or later across the punched holes, I shall make a point of seeing a small punch which automatically strengthens every hole with a patch of self adhesive reinforcing tape. More of this later.

SIMPLE DATA

I have suggested before that some of the publications produced by the MOW are somewhat above the heads of many people in the building industry, and that the real need is for a series of simple statements

so that the operative or foreman can be talked into a willing acceptance of the results of research. It is good to see, therefore, that the Ministry has now started a series of Advisory leaflets which are being widely distributed, mostly free of charge, to builders and foremen throughout the country. The first one, published about a month ago, deals with *Painting on New Plaster*, a fruitful source of trouble; the current issue deals with the *Plasters used in Building*, and classifies the various trade names under five headings with notes on the different types and the purposes for which they should be used. It is interesting, too, to find that the Ministry has accepted the fact that the use of trade names cannot be avoided if information (particularly information about plaster, where trade names are so numerous) is to be of any value. Few people know whether one particular product is a retarded hemi-hydrate or a parian plaster, and it is very useful to have them all set out clearly.

Future leaflets will deal with lagging hot water pipes, cavity party walls, screeds as an underlay for floors, and the rendering of external walls, all subjects where a good deal of trouble can be found, and where simple guidance is badly needed.

TIMBER STANDARDS

1.6 standards per house has been more than a headache for a long time, not all of us being used to thinking in standards. For some time the door and window makers have been giving the wood content of their products in standards, and now Messrs. Sandell weigh in with a pocket calculator, plastic-finished and in a single stiff card the size of an envelope, which gives figures for the expression of feet run in all normal sizes in terms of standards of timber. There seems now to be little timber in the average house not now covered by manufacturers' data, a very good thing for those who dislike multiplication, or who never know where the decimal point comes on the slide rule. (Joseph Sandell & Co. Ltd., 101, Waterloo Road, London, S.E.1.)

RUST REMOVING

Of the two shuttering clamps shown in the illustration below, the one on the right is as it was when removed from the shuttering; the one on the left has had a 25-minute dip in Jenolite, a liquid made specially to remove rust from iron and steel as well as most types of scale caused by welding, brazing, milling, and rolling; and all forms of oxidation from non-

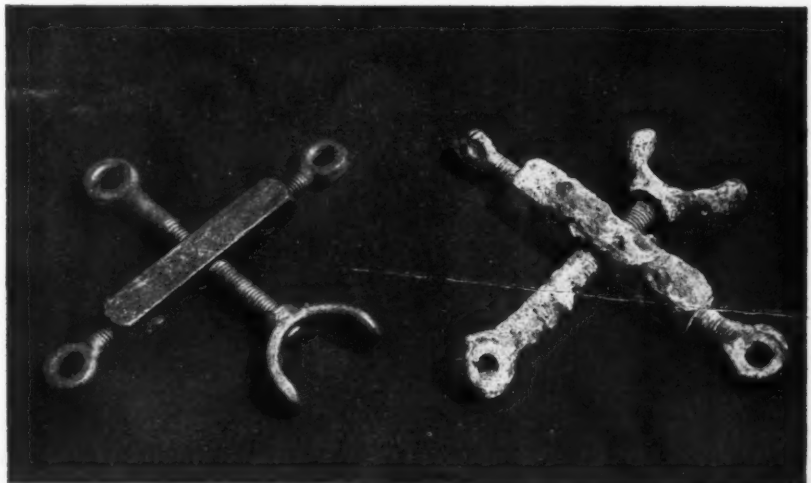


A Sanders unbreakable plug showing distortion produced by the weight of a 7½ ton bus.

ferrous metals. It does not attack the metal during the process, does not "build up," and does not leave any harmful salts or coating on the metal surface that could have any further action after the articles have been painted, enamelled or plated.

The Jenolite deposits a phosphate coating which protects the metal surface from rusting for a considerable time, which, of course, depends on the atmosphere in which the articles are stored. At the same time, and without any further treatment, the articles treated acquire a good surface key for all types of paint, plating and similar processes, the Jenolite acting as a binding agent between the metal surface and whatever coating is applied. Enamel and paint costs tend to be reduced as the paint will not seep into the pores of the metal, but spreads evenly and thinly, adhering firmly to the metal surface.

Since many builders suffer considerable losses from rusted equipment such as scaffolding clamps, a successful rust remover which has no effect on the articles treated should show appreciable economies. The liquid is not dangerous in use, though rubber gloves are recommended if it is to be constantly handled. It can be used as a dipping process or applied with a brush, and it is also available as a paste. (Jenolite Ltd., 43, Piazza Chambers, Covent Garden, London, W.C.2.)



Two shuttering clamps, one of which (left) has been dipped in Jenolite, a rust-removing liquid.

Announcements

By the Public Health (Smoke Abatement) Act, 1926, power is given to the Minister of Health to make Orders extending the provisions of the Alkali, &c., Works Regulation Act, 1906. In the exercise of this power Orders were issued in 1928, 1935 and 1939 (the Alkali, &c., Works Orders, 1928 to 1939) extending the list of noxious or offensive gases mentioned in the Act of 1906 and extending the list of scheduled works requiring registration under the Act. A draft Order has now been prepared further extending the list of such gases and works. Copies of this draft Order may be seen at the Offices of the MOH, Whitehall, S.W.1, or they may be purchased either directly, or through any bookseller, from H.M.S.O., York House, Kingsway, London, W.C.2; 39, King Street, Manchester, 2; 2, Edmund Street, Birmingham, 3; 1, St. Andrew's Crescent, Cardiff; or Tower Lane, Bristol, 1. A public inquiry will be held into the subject matter of the draft Order by W. A. Damon, chief inspector of Alkali, etc., Works, at the Offices of the MOH, Caxton House East, Tothill Street, S.W.1, on Tuesday, October 18, at 2.30 p.m.

The partnership existing between Mr. Ivor Shaw and Mr. John Lloyd has now been dissolved, on Mr. Shaw's retirement from the practice. The business will be continued by Mr. Sidney John Lloyd at 74, Great Russell Street, W.C.1.

Mr. John Lacey, A.R.I.B.A., A.M.T.P.I., has relinquished his lectureship at the Northern Polytechnic and has been appointed senior assistant in charge of the evening School of

Town Planning at the Regent Street Polytechnic.

We regret to announce the death of Mr. Arthur Haes on September 7, in his 79th year. He was the founder and chairman of Sealocrete Products, Ltd., of Hammersmith, London, W.6. His son, Mr. Eric Haes, becomes chairman and managing director of the company.

Mr. M. F. B. Bell, of the headquarters staff of MOTCP, has been appointed Controller of the South-Western Regional Office of the Ministry, at Bristol. Mr. Bell took up his appointment on October 1 on the resignation of Brigadier R. B. Peters, C.B.E., the present Regional Controller.

Buildings Illustrated

S.S. "Rangitoto," of the New Zealand Shipping Company's fleet. (Pages 368-374). Architects: Messrs. Easton and Robertson, F./R.I.B.A. Main Contractors for Public Rooms, H. H. Martyn & Co. Ltd. Sub-contractors: Tungsten and fluorescent lighting installation, The General Electric Co. Ltd.; cinema projection equipment, G. B. Equipments Ltd.; acoustic treatment for cinema, Douglas Smart & Son Ltd.; flooring, Korkoid Decorative Floors; barber's shop equipment and fittings, R. Shedden & Co. Ltd.; pianos, John Sirohmenger & Sons (1938) Ltd.

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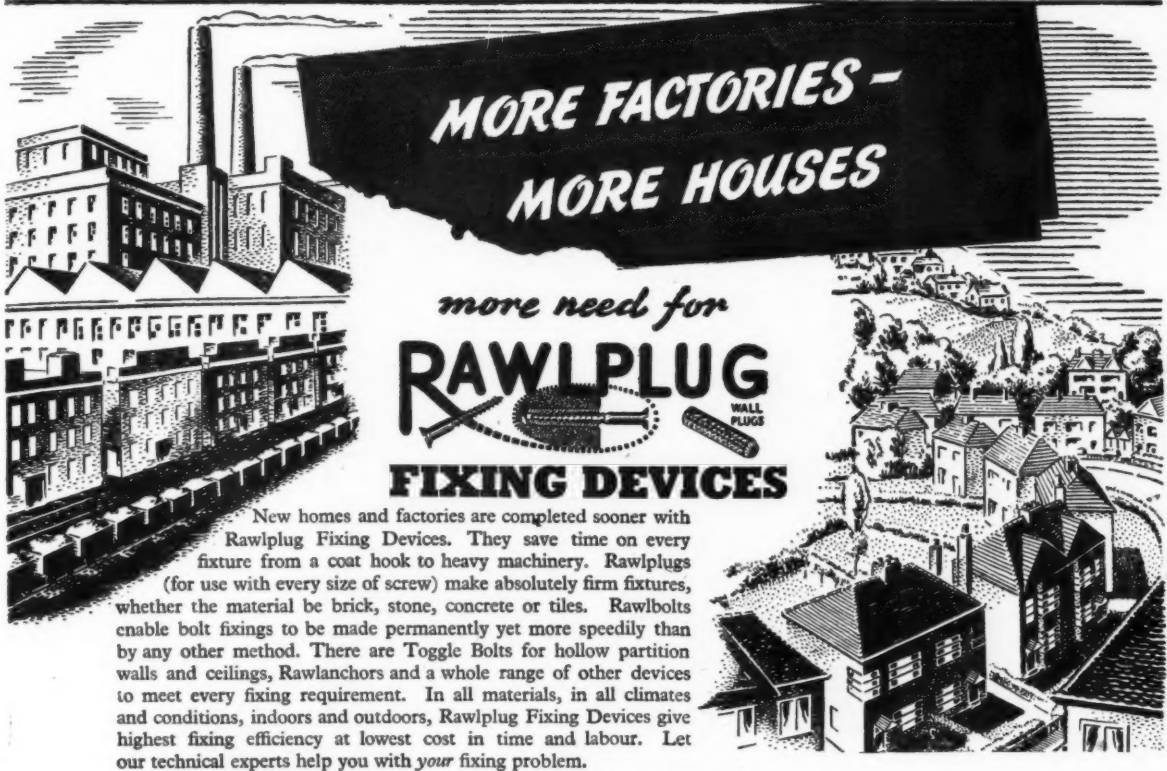
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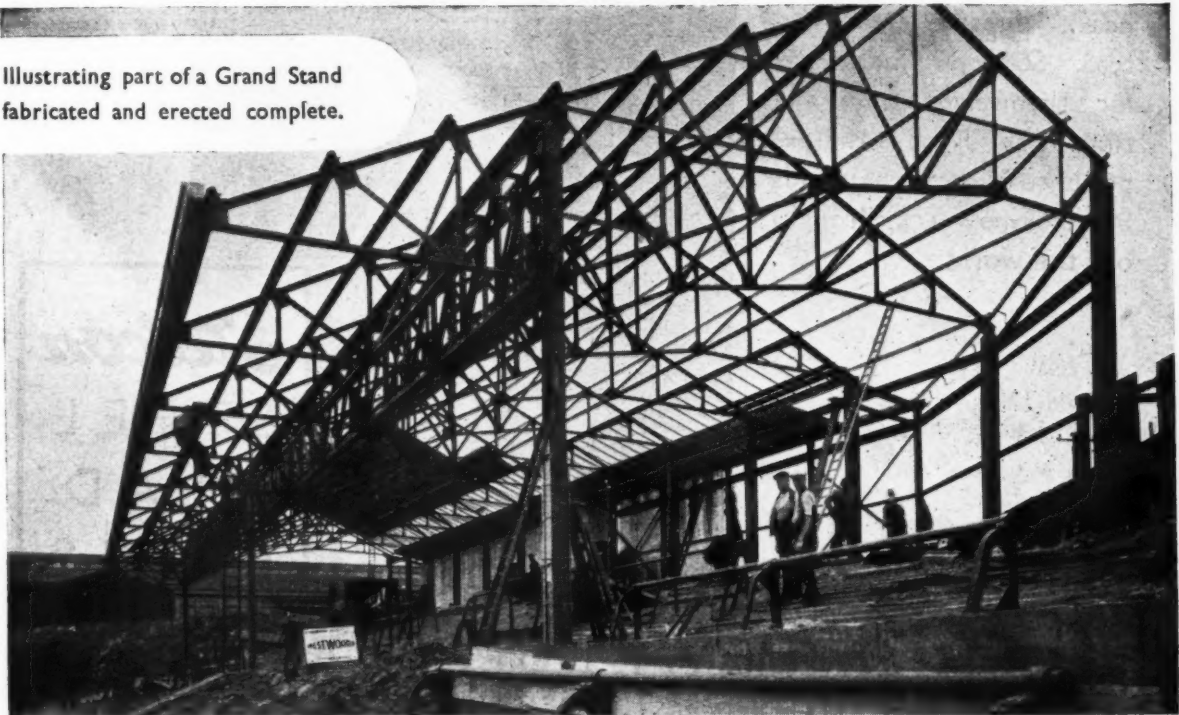
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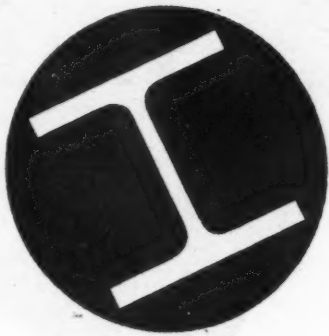
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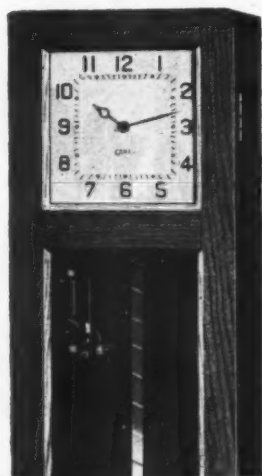
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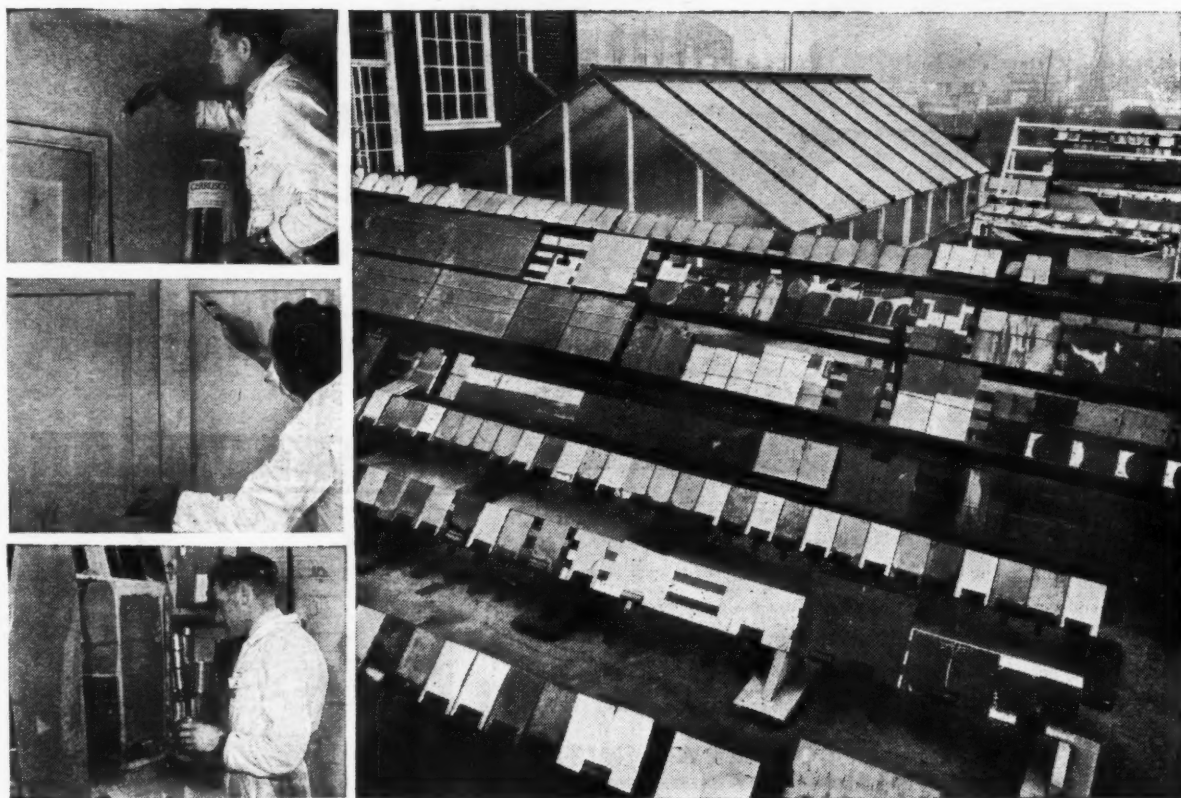


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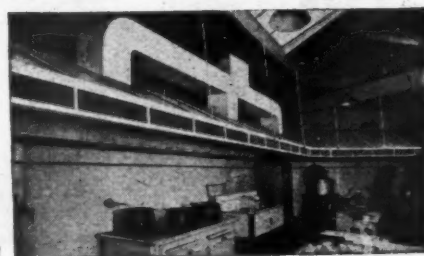
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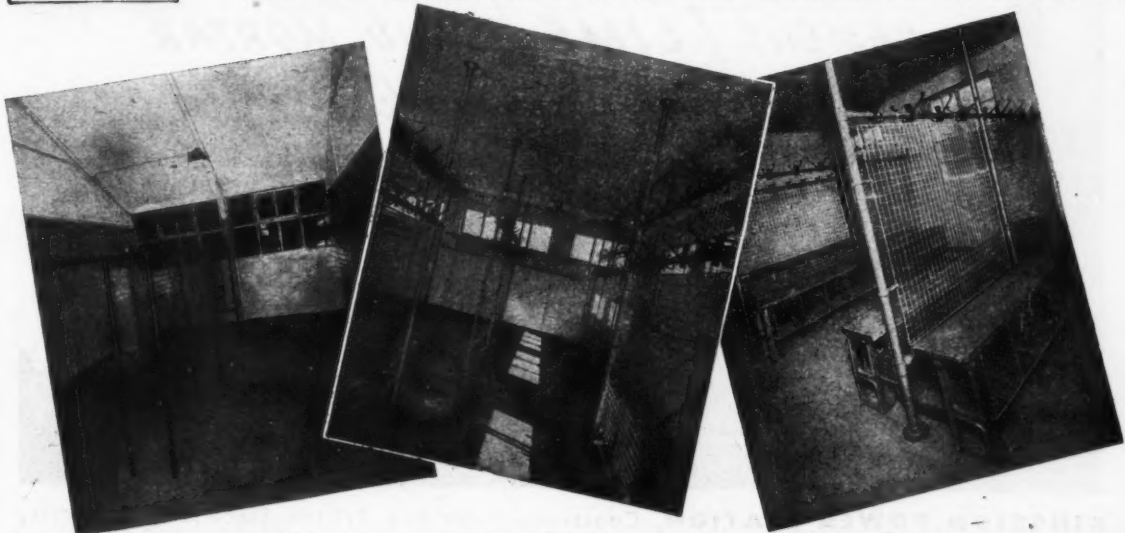
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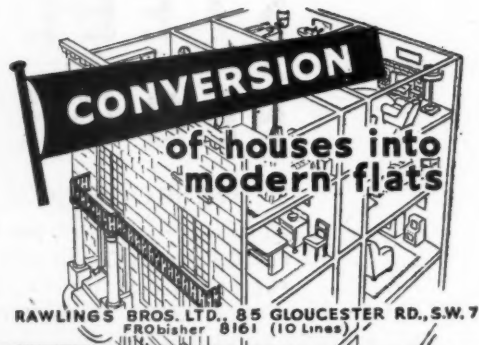


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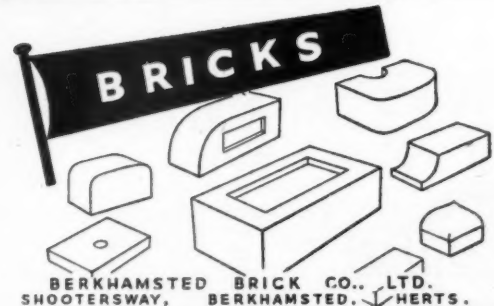
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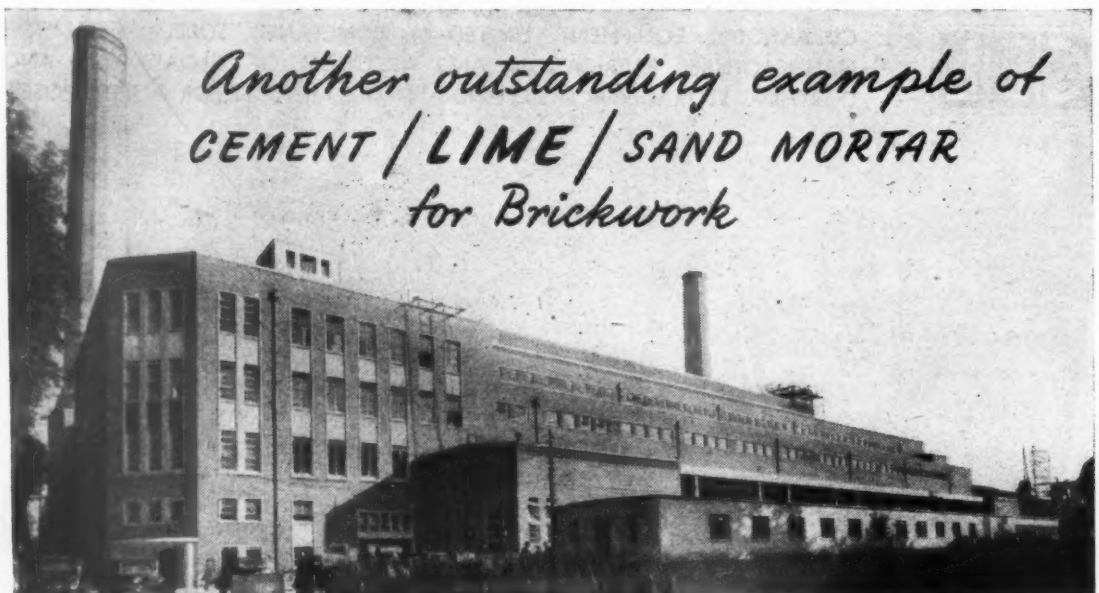
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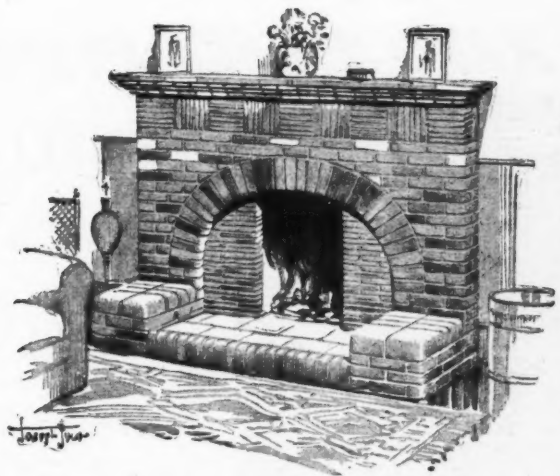
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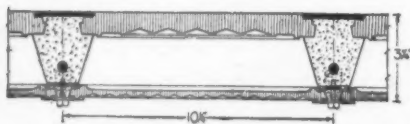
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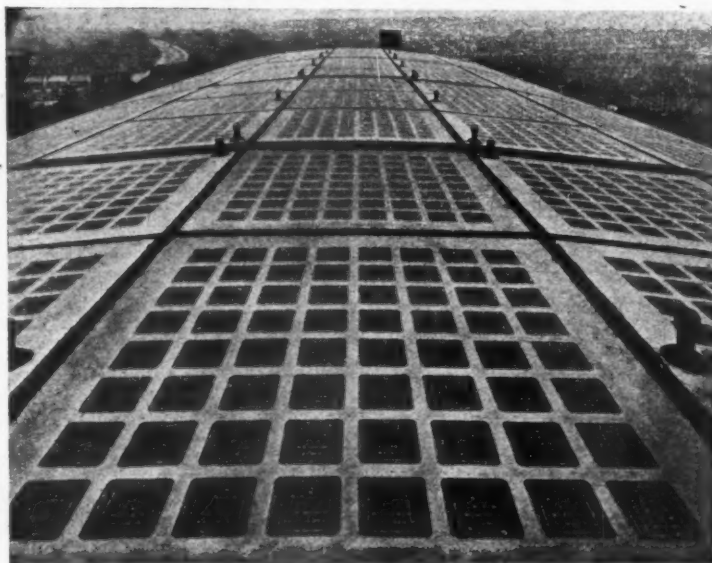
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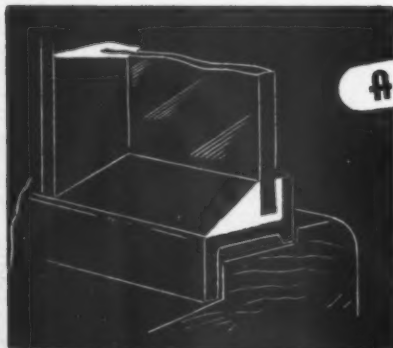
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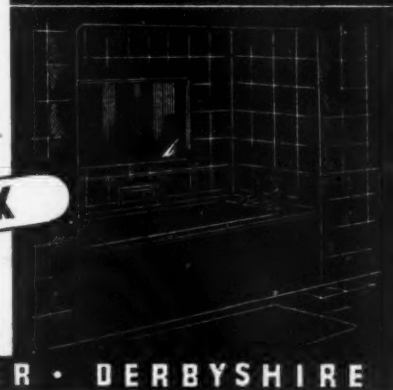
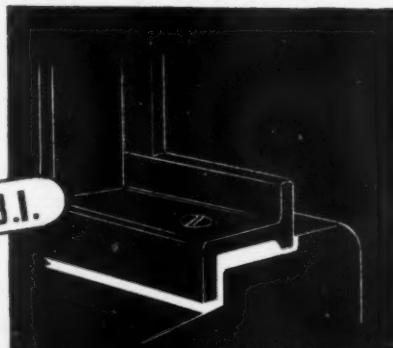
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This sectional view of a standard Thermotube Space Heater shows the quality of its construction. The first-grade nickel chrome wire element is carried on a strong non-ceramic frame; the die-cast terminal block has easily accessible terminals each accommodating two 7.029 cables; the heavy-gauge seamless steel tube has a die-cast cover with knock-outs for single or double entry. The whole job is engineered to last a lifetime and the element itself, operating at black heat, is practically indestructible. Interconnectors with built-in earth link, and wall-fixing brackets and cable- or conduit-entry bushes, are available for use with "banked" heaters.

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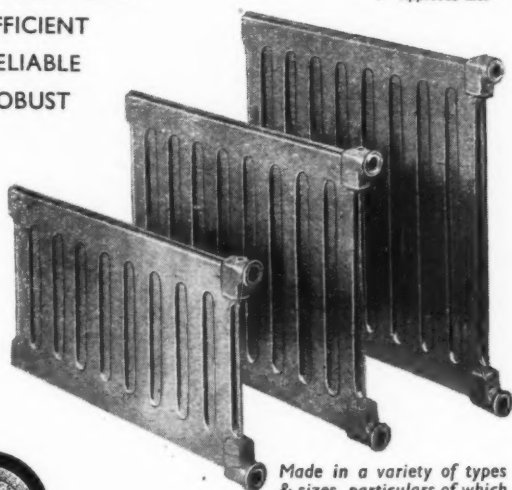
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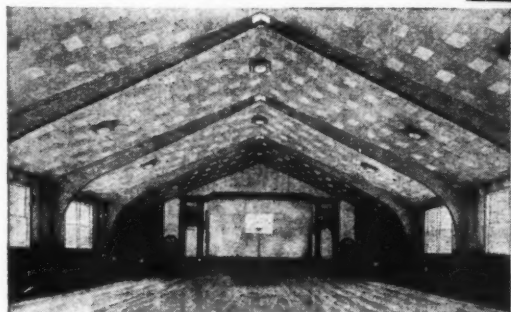
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1476

The Great Hall, Eltham, Kent. A fine example of domestic architecture of the reign of Edward IV. The roof features hammer beam truss construction.



1949

Gymnasium at Goodman, Wisconsin, U.S.A. The 58 ft. span roof in the modern idiom is supported by glued laminated arches at 16 ft. centres. (Photo courtesy T.D.A.)



IN 1476, the last joiner packed his simple tools under the noble roof of Eltham Hall. His eyes roamed the majestic proportions and cunning craftsmanship of his handiwork. Here, he thought, is the summit of Man's achievement... the climax of timber construction. And perhaps it would have been so, had labour remained cheap and timber plentiful. Complacency was shaken by the rapid growth of timber's rivals—steel and concrete. A great deal has been done to restore timber to its rightful place as a constructional material. The development of lamination has taught us timber's adaptability. More is known of its mechanical properties. The adoption of connectors has demonstrated new ways of jointing for added strength and economy.

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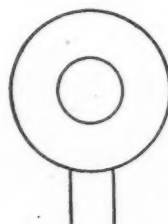
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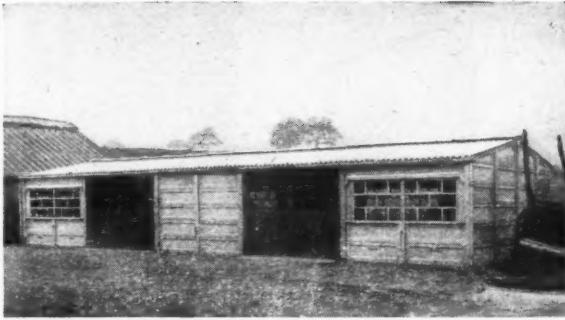
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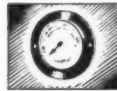
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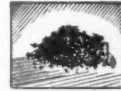
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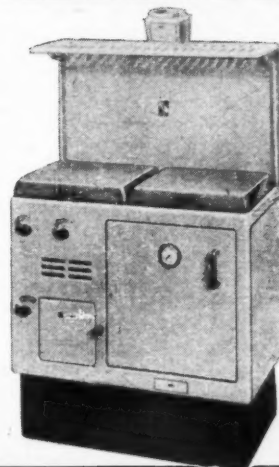
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CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 2, 11 and 13, Queen Anne's Gate, Westminster, S.W.1 and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

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

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Public and Official Announcements

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

LONDON COUNTY COUNCIL.

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

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

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

MINISTRY OF WORKS.

There are vacancies in the Chief Architect's Division for ARCHITECTURAL ASSISTANTS, with recognized training and fair experience. Successful candidates will be employed in London and elsewhere on a wide variety of Public Buildings, including Atomic Energy and other Research Establishments, Telephone Exchanges, and Housing. Similar vacancies also exist for ASSISTANTS, with specialized knowledge and experience in stonemasonry, particularly in detailing and jointing of ashlar and carved stonework.

Salary: Architectural Assistants, £300-£525 per annum; Leading Architectural Assistants, £500-£625, plus overtime. Starting pay will be assessed according to age, qualifications and experience. These rates are for London; a deduction is made in the Provinces.

Although these are not established posts, some of them have long-term possibilities, and competitions are held periodically to fill established vacancies.

Apply in writing, stating age, nationality, full details of experience, and locality preferred, to Chief Architect, W.C.10/P, Ministry of Works, Abell House, London, S.W.1. 3065

LIVERPOOL REGIONAL HOSPITAL BOARD. Applications are invited for the following permanent appointments in the Regional Architect's Department of the Headquarters staff of the Board:—

(a) ASSISTANT ARCHITECT, Grade A.P.T., VI, £595-£660 per annum. Applicants should be Associates of the Royal Institute of British Architects, and must have a good general experience, and ability in design and construction.

(b) DRAUGHTSMAN, Grade A.P.T., I, £390-£435 per annum. Applicants must be competent Draughtsmen, with a knowledge of building construction, and must have had previous experience in an Architect's office.

The appointments are pensionable and the successful candidates may be required to pass a medical examination.

Applications, stating age, education, qualifications, experience, present and previous appointments, salary, war service, together with the names and addresses of three referees, should be sent to the undersigned at Alexandra Building, 19, James Street, Liverpool, 2, to be received not later than 20th October, 1949.

VINCENT COLLINGS,
Secretary to the Board. 2271

COUNTY OF ESSEX.

ILFORD COMMITTEE FOR EDUCATION.

The Essex County Council invite applications for the post of ARCHITECTURAL ASSISTANT, in the Office of the Borough Engineer of Ilford. Applicants should have had good general training and experience.

The scale of salary will be in accordance with the National Joint Council, A.P.T. Division, Grade III, £450-£515 to £495, plus the appropriate London area allowance.

Application should be made on a form to be obtained from, and returned to, the Borough Education Officer, Education Offices, Town Hall, Ilford, together with copies of not more than three recent testimonials, within 14 days of the appearance of this advertisement. 2307

CORPORATION OF LONDON. APPOINTMENT OF ARCHITECTURAL AND SURVEYING ASSISTANTS.

Applications are invited for the appointment of Architectural and Surveying Assistants, in the City Surveyor's Office. Salaries will be within the range Higher Grade I, £400-£25-£625, and General Grade Assistants up to a maximum of £475 per annum. Commencing salaries in each case will be arranged according to qualifications and experience.

Applicants for Higher Grade I positions should be between the ages of 25 and 35 years and be Associate Members of the Royal Institute of British Architects or the Royal Institution of Chartered Surveyors (Building Sub-section). Applicants without these qualifications and who have passed the Intermediate Examinations of the R.I.B.A. or R.I.C.S. (Building Sub-section) will be considered for the Higher Grade I positions. The appointments call for good draughtsmanship and a sound knowledge of building construction, specification writing, contract management, and general administrative ability.

Applicants for General Grade appointments should be between the ages of 21 and 30 years, and should be preparing for the Intermediate Examination of the R.I.B.A. or R.I.C.S. (Building Sub-section), and they should have a good knowledge of drawing, building construction, specifications and general routine work.

The appointments are on a temporary basis, but candidates will be considered for transfer to the permanent staff as and when vacancies occur. Temporary service counts for superannuation.

The appointment will be subject to the provisions of the Corporation's Superannuation Scheme, and candidates will be required to pass a medical examination.

Applications, giving full personal details, particulars of qualifications, experience, age, past and present appointments, and the names of two persons to whom reference may be made, should be forwarded to George Holliday, F.R.I.C.S., City Surveyor, Corporation of London, 55-61, Moorgate, E.C.2. 2196

SURREY COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

ASSISTANT ARCHITECT, Grade VI. Salary £595 to £660 per annum, plus London allowance of £30 per annum.

Applicants must be Associate Members of the Royal Institute of British Architects, and should have had a good training and an adequate experience in the design and construction of modern buildings.

ASSISTANT QUANTITY SURVEYOR, Grade VI. Salary £595 to £660 per annum, plus London allowance of £30 per annum.

Preference will be given to applicants who are Members of the Royal Institution of Chartered Surveyors (Quantities Sub-Division), and who have an adequate experience in the preparation of Bills of Materials, site measuring, and in settlement of final accounts.

Full details of past and present appointments should be given.

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

Applications, stating age, qualifications, full details of experience, salary required, and accompanied by copies of three testimonials, should be addressed to the County Architect, Surrey County Council, County Hall, Kingston-on-Thames, to reach him not later than 15th October, 1949.

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

The Council will be unable to provide any housing accommodation, and the successful applicants will be required to make their own arrangements in this direction.

DUDLEY AUKLAND.

Clerk of the Council. 2215
County Hall, Kingston-upon-Thames.

LONDON COUNTY COUNCIL.

QUANTITY SURVEYORS.

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

Duties will include:—
(a) Measurement of work in construction of houses, roads and sewers, preparation of interim and final bills; measurement and adjustment of sub-contracts; preparation of cost statistics, estimates, etc.
(b) Management of housing contracts of considerable value; interim valuations for payments; measurement of variations and settlement of final accounts.

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

Canvassing disqualifieds. (2140) 752

ESSEX COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT.

The Essex County Council invite applications for the following appointments on the established staff of the County Planning Department:—

(a) TWO PLANNING ASSISTANTS, at a salary not exceeding the maximum for Grade VI, A.P.T.D. (£660 per annum), at Leytonstone.

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

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

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

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

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

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

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

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

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

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

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

Canvassing, directly or indirectly, will disqualify.

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

JOHN E. LIGHTBURN.

Clerk of the County Council. 2214

BOROUGH OF BARNES. APPOINTMENT OF PERMANENT ARCHITECTURAL ASSISTANT (GRADE III).

Applications are invited for the above appointment, in the Borough Engineer and Surveyor's Department, at a commencing salary of £450, rising by annual increments to a maximum of £495 per annum, plus London weighting. Applicants should be good draughtsmen and be capable of preparing plans and details for general architectural work.

Preference will be given to applicants having an architectural qualification. The Council are unable to make any provision of housing accommodation for the successful applicant. Applications, together with the names of three persons to whom reference can be made, should be submitted to the undersigned not later than Friday, 21st October, 1949.

W. R. SHEPHERD, A.M.I.C.E.,

A.R.I.C.S.,

Borough Engineer and Surveyor.
Municipal Offices, Sheen Lane, S.W.14. 2210
19th September, 1949.

MIDDLESEX COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT.

SIX PLANNING ASSISTANTS (A.P.T., V, £520, rising to £570 p.a., plus £20-£30 London weighting, according to age). Candidates should have town planning experience and should have passed the Intermediate Examination of the T.P.I., but other appropriate examinations or qualifications will be considered. Established, pensionable posts, subject to medical examination and prescribed conditions of service. Applications giving full particulars and accompanied by three recent testimonials, to the undersigned by 11th November, 1949 (quoting G.129 A.J.). Canvassing disqualifieds.

C. W. RADCLIFFE.

Clerk of the County Council.
Middlesex Guildhall, Westminster, S.W.1. 2302

CITY OF COVENTRY.

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

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

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

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

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

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

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

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

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

(f) ONE HEATING AND VENTILATING ENGINEERING ASSISTANT. Salary on Grade A.P.T., III, commencing at £450 per annum and rising to £495 per annum.

Applicants should preferably be graduate members of the Institute of Heating and Ventilating Engineers.

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

Salary increments are subject to satisfactory service.

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

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

D. E. E. GIBSON.
City Architect.

1a, Warwick Row, Coventry.

29th September, 1949. 2231

COUNTY BOROUGH OF GREAT YARMOUTH.

BOROUGH ENGINEER'S DEPARTMENT.

APPOINTMENT OF ASSISTANT ARCHITECTS.

Applications are invited for the following appointments:—

(a) TWO SENIOR ASSISTANT ARCHITECTS for:—

(1) Housing and General Work.

(2) Schools.

The salaries will be in accordance with A.P.T., Grade VI (£595-£660), of the National Conditions of Service.

(b) GENERAL ASSISTANT ARCHITECT. Salary A.P.T., Grade IV (£480-£525).

Applicants should be Associates of the Royal Institute of British Architects for appointments (a), and in the case of the Assistant Architect (Schools), applicants should have had previous experience in Modern School Design.

For appointment (b) applicants should have passed the Intermediate Examination of the R.I.B.A.

Previous Local Government experience is not essential. The appointments will be terminable by one month's notice on either side, and will be subject to the provisions of the Local Government Superannuation Act, 1937, and to the passing of a medical examination.

Applications, stating age, qualifications, experience, together with the names of three persons to whom reference can be made, should be enclosed in an envelope endorsed with the title of the appropriate appointment, and must reach me not later than Monday, 17th October, 1949.

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

FARRA CONWAY.

Town Hall, Great Yarmouth.

24th September, 1949. 2239

LONDON COUNTY COUNCIL.

PARKS DEPARTMENT.

Applications invited for temporary TECHNICAL ASSISTANTS (£5-£8 7s. 6d. weekly, according to age and experience); capable of making surveys, taking levels, preparing sketches, working drawings, specifications, etc. Opportunities for permanent appointment and for promotion as vacancies occur. Candidates should state experience.

Applications to Chief Officer of the Parks Department, Old County Hall, Spring Gardens, S.W.1. Canvassing disqualifies. (1131) 2301

BEDFORDSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the post of QUANTITY SURVEYOR (A.P.T. Grade VI), salary £595-£660 p.a., on the established staff of the County Architect's Department.

Applicants must have the requisite experience in preparation of Bills of Quantities, but previous Local Government service is not essential.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937. Forms of application can be obtained from the undersigned and should be returned not later than 22nd October, 1949.

Pending the provision of flats under the Council's scheme, a subsistence allowance is payable in certain cases to married officers.

J. B. GRAHAM.

Shire Hall, Bedford.

27th September, 1949. 2291

COUNTY BOROUGH OF BURTON-UPON-TRENT.

Applications are invited for the following appointments in the Architectural Office of the Borough Surveyor:—

(1) TWO QUANTITY SURVEYORS. Grade VII, A.P.T. Division (£635-£710).

The commencing salaries within the Grade will be in accordance with the successful candidates' qualifications and experience.

(2) ARCHITECTURAL ASSISTANT. Grade VI, A.P.T. Division (£595-£660).

(3) ARCHITECTURAL ASSISTANT. Grade IV, A.P.T. Division (£480-£525).

Preference will be given to candidates who are Associate Members of the appropriate Institute.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, to determination by one month's written notice on either side, and to the successful candidates passing a medical examination by the Medical Officer of Health.

Applications in sealed envelopes, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, must be delivered to the Borough Surveyor, Town Hall, Burton-upon-Trent, not later than 10 a.m. on Tuesday, 18th October, 1949.

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

H. BAILEY CHAPMAN.

Town Hall, Burton-upon-Trent.

28th September, 1949. 2292

NORFOLK COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

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

ASSISTANT ARCHITECT. Salary in accordance with National Grade VI (£595-£660 p.a.). Candidates must be Registered Architects, must hold a recognized architectural qualification, and must have had a wide experience in design and construction.

ARCHITECTURAL ASSISTANT. Salary in accordance with National Grade II (£420-£465 p.a.).

ARCHITECTURAL ASSISTANT. Salary in accordance with National Grade I (£390-£435 p.a.).

Candidates should have had good general experience in an architect's office and be capable of good draughtsmanship; previous experience in the office of a local authority is not essential.

The above appointments will be subject to the Local Government Officers' Superannuation Acts, to a satisfactory medical certificate, and to one month's notice on either side. National Scheme of Conditions will apply.

Applications must state clearly age, qualifications, full details of training and experience, particulars of previous appointments, with dates, salaries and designations; the names and addresses of three persons to whom reference may be made must be stated, and applications clearly endorsed must be delivered to C. H. THURSTON, L.R.I.B.A., F.R.I.C.S., County Architect, 25, Thorpe Road, Norwich, to be received not later than Wednesday, 19th October, 1949.

H. OSWALD BROWN.

County Offices, Thorpe Road, Norwich.

2293

NORFOLK COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of an ASSISTANT QUANTITY SURVEYOR, on the permanent staff of the County Architect's Department—salary in accordance with National Grade II (£420-£465 p.a.). Candidates should be capable of abstracting and billing and checking final accounts. Some experience of specification writing, estimating and taking-off will be an advantage.

The appointment will be subject to the Local Government Officers' Superannuation Acts, to a satisfactory medical certificate, and to one month's notice on either side. National Scheme of Conditions will apply.

Applications, stating age, qualifications and experience, together with the names of three persons to whom reference may be made, should be addressed to C. H. THURSTON, L.R.I.B.A., F.R.I.C.S., County Architect, 25, Thorpe Road, Norwich, to be received not later than Wednesday, 19th October, 1949.

H. OSWALD BROWN.

County Offices, Thorpe Road, Norwich.

2295

PETERLEE DEVELOPMENT CORPORATION.

APPOINTMENT OF ASSISTANT QUANTITY SURVEYOR.

Applications are invited from Associate Members of the Royal Institute of Chartered Surveyors for the appointment of Assistant Quantity Surveyor, at a salary on the range £750-£1,000 per annum.

Applicants should have considerable experience in preparation of Bills of Quantities of all types, particularly for housing work, and should be fully conversant with all latest developments in building technique and the use of all types of modern building materials.

The position is a superannuable one and the successful applicant will be required to pass a medical examination. The appointment, which is subject to the Conditions of Service adopted by the Corporation, will be terminable by one month's notice in writing on either side.

Applications, giving particulars of age, experience, qualifications, etc., together with the names of two referees, should be addressed to the General Manager, Peterlee Development Corporation, Shotton Hall, Castle Eden, Co. Durham, to arrive not later than 17th October, 1949.

23rd September, 1949. 2287

CITY OF BATH.

CITY ENGINEER'S DEPARTMENT.

ARCHITECTURAL SECTION.

Applications are invited for the appointment of TWO GENERAL ARCHITECTURAL ASSISTANTS on the permanent staff of the City Engineer. Salary A.P.T., III or IV (£450-£495 or £480-£525), according to qualifications and experience.

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

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

Applications, stating age, qualifications and experience, together with names and addresses of three referees, should be sent to the City Engineer, Guildhall, Bath, not later than Saturday, 15th October, 1949.

JARED E. DIXON.

Town Clerk.

2280

BOROUGH OF ROWLEY REGIS.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

QUANTITY SURVEYOR.

Applications are invited for the above appointment. Applicants must be capable of preparing Bills of Quantities for Housing and other building works, measuring works in progress for interim and final accounts.

The salary will be in accordance with Grade VI of the A.P.T. Division of the National Scale of Salaries (£595-£660 p.a.).

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

Applications, stating age, qualifications and experience, together with copies of not more than three testimonials, should be addressed to the Borough Engineer and Surveyor, suitably endorsed, so as to reach him not later than Monday, 17th October, 1949.

R. HEGAN.

Town Clerk.

2273

MONTGOMERYSHIRE COUNTY COUNCIL.

NEW BILATERAL SCHOOL AT LLANFAIR CAEREINION, NEAR WELSHPOOL.

Applications are invited for temporary appointment of CLERK OF WORKS for a period of approximately 18 months, at an inclusive salary of £10 per week. Applicants must have a thorough knowledge of the building trade and be conversant with Plans, Specifications and Bills of Quantities, competent to set out work, including levelling, check and measure up variations, keep records, and write reports to the County Architect. The appointment may be determined by one month's notice in writing on either side.

Applications, in candidate's own handwriting, stating age, qualifications, experience, previous appointments, and when able to take up duties, accompanied by copies of not more than two recent testimonials, in an envelope endorsed "Clerk of Works," must reach the undersigned not later than Monday, 17th October, 1949. Canvassing disqualifies.

P. E. WHITE.

Clerk of the County Council.

27th September, 1949. 2268

COUNTY BOROUGH OF WALLASEY.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited for appointments in each of the Grades, A.P.T., I, to A.P.T., VII.

Forms of application and conditions of appointment may be obtained from the Borough Architect, Town Hall, Wallasey, to whom all applications should be returned by not later than the 15th October, 1949.

Applicants should state the grade of the position for which they wish to apply when requesting application forms.

EMRYS EVANS.

Town Clerk.

2286

COUNTY BOROUGH OF DERBY.
PLANNING STAFF APPOINTMENTS (TWO).

Applications are invited for the undermentioned permanent appointments in the Planning Department of the Borough Engineer and Surveyor:—
(a) SENIOR PLANNING ASSISTANT. A.P.T., Grade VIII, £685-£760. Candidates should possess a degree or diploma in Architecture or A.R.I.B.A., and be Associate Members of the Town Planning Institute.

(b) SENIOR PLANNING ASSISTANT. A.P.T., Grade VIII, £685-£760. Candidates should possess a degree or diploma in: Architecture, Economics or Estate Management, Civil Engineering, or be A.R.I.C.S., A.R.I.B.A., A.M.Mun.E., A.M.I.C.E., and Associate Members of the Town Planning Institute.

Preference will be given to candidates who have had experience in the detailed planning of new development and re-development in Urban areas, who possess initiative and are capable of taking responsibility for sections of the work of the department.

Conditions of Service are those formulated by the National Joint Council, and the appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination.

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

Applications, on appropriate endorsed, together with copies of two recent testimonials, or two names of persons from whom references may be obtained, should be sent to M. L. Francis, F.R.I.C.S., M.I.Mun.E., M.Inst.R.A., Borough Engineer and Surveyor, The Council House, Derby, to reach him not later than Monday, the 17th October, 1949.

Canvassing, directly or indirectly, will be a disqualification, and candidates are required to state whether they are on any member or senior official of the Council.

E. H. NICHOLS,
Town Clerk.

The Council House, Derby.
September, 1949. 2267

CITY OF WAKEFIELD.

CITY ENGINEER'S DEPARTMENT.

SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of a Senior Architectural Assistant. Salary Grade A.P.T., VI (£595-£660). Applicants should have had a good experience in Housing and General Works.

The appointment will be subject to the Local Government Superannuation Act, 1937, and to the passing of a medical examination.

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.

Applications, endorsed "Senior Architectural Assistant," stating age, qualifications, present and previous appointments, and details of experience, together with copies of two testimonials, should be sent to me not later than Tuesday, the 18th October, 1949.

The Council will consider the provision of housing accommodation if required.

W. S. DES FORGES,
Town Clerk.

24th September, 1949. 2264

LONDON COUNTY COUNCIL.

APPOINTMENTS AS DISTRICT SURVEYOR AND ASSISTANT DISTRICT SURVEYOR.
LONDON BUILDING ACTS (AMENDMENT) ACT, 1939.

Applications are invited from persons qualified under the above-mentioned Act to hold the office of District Surveyor for permanent appointment in the Administrative County of London (a) as District Surveyor, Grade III, at a salary of £1,000 a year, rising by annual increments of £50 to £1,200 a year, and (b) Assistant District Surveyor, at a salary of £940 a year, rising by annual increments of £40 to £960 a year.

The persons appointed would be subject to the Council's Superannuation and Provident Fund Scheme, and to the standing orders, regulations and rules in force from time to time.

Apply to the Architect, County Hall, Westminster Bridge, London, S.E.1, for form of application (returnable by 1st November, 1949) or for further information. Canvassing disqualifies. (1119) 2249

BRITISH ELECTRICITY AUTHORITY.

SOUTH WALES DIVISION.

Applications are invited for the appointment of SITE SURVEYOR in the Construction Department at Divisional Headquarters, at a salary of £700 to £825 per annum.

The above salary is provisional and subject to negotiation through the appropriate national machinery.

The appointment is permanent and will be superannuable under the British Electricity Authority and Area Board's Scheme. Applicants should be qualified Quantity Surveyors, capable of dealing with measurements of large contracts by standard methods, preparation of Bills of Quantities, etc.

Forms of application may be obtained from the Divisional Secretary at the address below, to whom completed applications should be returned not later than 10 days from the appearance of this advertisement, in sealed envelope endorsed "Site Surveyor."

H. V. PUGHE,
Divisional Controller.

Cardiff (Pengam Moors) Airport, Cardiff.
2nd September, 1949. 2256

LONDON COUNTY COUNCIL.

Brixton School of Building, Ferndale Road, S.W.4. Required to commence as soon as possible, Part-time Day or Evening VISITING TEACHERS of Quantity Surveying.

Applicants should be suitably qualified and experienced. Application forms and all particulars from the Secretary at the School. (1125) 2279

CARDIGANSHIRE COUNTY PLANNING COMMITTEE.

Applications are invited for the appointment of ASSISTANT COUNTY PLANNING OFFICER. A.P.T., Grade VII-VIII (£635-£760). Salary within the Grades will be determined according to qualifications of the successful applicants.

Applicants should have wide experience in the preparation of town and country planning schemes, with a sound knowledge of the relevant Acts and Orders. Experience in the supervision of staff is essential, and it is desirable that the successful applicant should possess and drive a car.

Applicants should have passed or obtained exemption from the Final Examination of the Town Planning Institute or hold an equivalent qualification in architecture.

The appointment will be subject to (i) National Scheme of Conditions of Service; (ii) the provisions of the Local Government Superannuation Act, 1937; (iii) the passing of a satisfactory medical examination, and (iv) one month's written notice on either side. No housing accommodation for the successful applicant can be provided by the Council.

Applications, stating age, qualifications and experience, together with the names of two referees, must reach the undersigned not later than noon on Wednesday, 12th October, 1949.

NORMAN GREENWOOD,

Acting Clerk to the County Planning Committee.
Cambrian Chambers, Aberystwyth.
29th September, 1949. 2303

MIDDLESEX COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT

requires:—

(a) ASSISTANT ARCHITECT. A.P.T., Grade VIII (£715-£790 p.a.).

(b) ASSISTANT ARCHITECTS. A.P.T., Grade VII (£665-£740 p.a.).

(c) ASSISTANT ARCHITECTS. A.P.T., Grade VI (£625-£690 p.a.).

(d) ARCHITECTURAL ASSISTANTS. A.P.T., Grade II, IV and V (combined) (£450-£600 p.a., commencing salary according to age, qualifications and experience).

(Scale £10 less if under 26 years). Established, pensionable, subject to medical fitness. Application forms from County Architect, Middlesex County Council, 30, Great George Street, Westminster, S.W.1 (stamped addressed foolscap envelope), to be returned within 14 days of publication (quoting G.118 A.J.). Canvassing disqualifies.

C. W. RADCLIFFE,

Clerk of the County Council.
Middlesex Guildhall, Westminster, S.W.1. 2284

SURREY COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointment:—

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

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

Applications, stating age, qualifications, full details of experience, salary required, and accompanied by copies of three testimonials, should be addressed to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, to reach him not later than the 17th October, 1949.

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

The Council will be unable to provide any housing accommodation, and the successful applicants will be required to make their own arrangements in this direction.

DUDLEY AUKLAND,

Clerk of the Council.
County Hall, Kingston-upon-Thames. 2305

METROPOLITAN BOROUGH OF

WANDSWORTH.

ARCHITECTURAL ASSISTANTS.

Applications are invited for the undermentioned Established vacancies in the Borough Architect's Department:—

(a) ARCHITECTURAL ASSISTANT, at a salary in accordance with Grade A.P.T., VII (£665-£740 per annum, inclusive). Candidates should be fully experienced in the design and planning of housing estates, particularly multi-storey blocks of flats and/or other framed buildings, and in supervising their erection. Preference will be given to Associates of the R.I.B.A.

(b) ARCHITECTURAL ASSISTANT, at a salary in accordance with Grade A.P.T., III (£480-£525 per annum, inclusive). Candidates must have experience in preparation of working drawings for housing schemes and general architectural work. Preference will be given to those studying for the R.I.B.A. Examinations.

Application forms may be obtained from the Borough Architect, and must be returned to the undersigned not later than 25th October, 1949.

R. H. JERMAN,

Town Clerk.
Municipal Buildings, Wandsworth, S.W.18.
26th September, 1949. 2272

ROYAL BURGH OF KIRKCALDY.

Applications are invited for the following permanent posts in the Burgh Engineer's Department:—

(a) TOWN PLANNING ASSISTANT. Grade V (£520-£570).

(b) TOWN PLANNING ASSISTANT. Grade IV (£480-£525).

(c) SENIOR ARCHITECTURAL ASSISTANT. Grade IV (£480-£525).

(d) SENIOR ENGINEERING ASSISTANT. Grade IV (£480-£525).

(e) JUNIOR ENGINEERING ASSISTANT. General Grade (£195-£370, according to age and experience).

(f) ARCHITECTURAL DRAUGHTSMAN. General Grade (£195-£370, according to age and experience).

Candidates should have good general experience and in the following cases should preferably hold the qualifications stated:—

(a) and (b) A.M.T.P.I.

(c) A.R.I.B.A.

(d) A.M.I.C.E. or A.M.I.Mun.E.

(e) Should have completed a recognized apprenticeship and preferably possesses a part qualification.

Housing accommodation is offered for appoint-
ments (a), (b), (c) and (d).

Applications, giving full particulars of experience, age, qualifications, etc., should be lodged with the Burgh Engineer, Osborne House, East Fergus Place, Kirkcaldy, not later than Saturday, 22nd October, 1949. 2320

BRIERLEY HILL URBAN DISTRICT

COUNCIL.

APPOINTMENT OF SECOND ASSISTANT ARCHITECT.

Applications are invited from suitably qualified persons for the appointment of Second Assistant Architect, in the Architect and Housing Director's Department, at a salary in accordance with Grade VA of the A.P.T. Division (£550-£620 to £610 per annum) of the National Scales of Salaries.

The Council have in view a considerable programme of Civic Development, e.g., new offices, and candidates should therefore be experienced in general Municipal work, including housing, be capable of preparing plans, specifications, etc., and supervising construction.

Applications, endorsed "Second Assistant Architect," stating age, full details of qualifications and experience, and accompanied by copies of not more than three recent testimonials, must reach the undersigned as soon as possible.

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

HERBERT HEX,

Clerk of the Council.
Council Offices, Moor Street, Brierley Hill.
30th September, 1949. 2319

HEMEL HEMPSTEAD DEVELOPMENT

CORPORATION.

ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointment:—

SENIOR ASSISTANT ARCHITECT. Salary in the scale £550-£630-£750, according to age and experience. Applicants must be Associates of the R.I.B.A., and in addition should have a sound knowledge of the planning and design of buildings, the writing of specifications, and of quantities.

The appointment will be subject to the Development Corporation's staff rules and conditions of service, in particular to one month's notice of termination on either side.

Contributory superannuation with an opportunity of entering or continuing in a Local Government Superannuation Fund will be provided.

The officer appointed will be expected to find his own accommodation in or near Hemel Hempstead, but temporary subsistence allowances are payable in certain cases.

Applications, giving full particulars of age, qualifications and experience, together with names of two persons to whom reference may be made, and endorsed "Senior Assistant Architect," should be addressed to reach the undersigned not later than 20th October, 1949.

W. O. HART,

General Manager.
Westbrook Hay, Hemel Hempstead, Herts. 2277

CITY OF LEICESTER.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited from Registered Architects for the following appointments on the Established Staff:—

(a) ASSISTANT ARCHITECTS. A.P.T., VI, £595-£660.

(b) ASSISTANT ARCHITECTS. A.P.T., V, £550-£570.

Preference will be given to Associates of the R.I.B.A. or those holding similar qualifications. Experience in school design and construction is desirable.

The appointments will be subject to the National Scheme of Conditions of Service and to the passing of a medical examination.

Applications, stating age, experience, qualifications, past and present appointment with present salary, together with copies of two recent testimonials, should be sent to the undersigned not later than Friday, 14th October, 1949.

J. H. LLOYD OWEN,

City Architect.
20, Loseby Lane, Leicester. 2304

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 Monday, 24th October, 1949.

(By Order) J. M. SHIRLEY,

Clerk of Council.
Rural District Council Offices,
Lisburn, Co. Antrim, N. Ireland.
29th September, 1949. 2324

BOROUGH OF PORT TALBOT.
APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the position of Architectural Assistant, on salary Grade A.P.T., Grade V (£520-£570 per annum).

The appointment will be subject to (i) the National Scheme of Conditions of Service; (ii) the provisions of the Local Government Superannuation Act, 1937; (iii) the passing of a satisfactory medical examination; and (iv) one month's written notice on either side.

Applications, on forms obtainable from the Borough Engineer, Municipal Buildings, Port Talbot, must be received by the undersigned not later than noon, 19th October, 1949.

W. KING DAVIES, Town Clerk.
Municipal Buildings, Port Talbot.
1st October, 1949. 2322

MIDLANDS ELECTRICITY BOARD.
BIRMINGHAM AND DISTRICT SUB-AREA.
APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for positions as Architectural Assistants in the Sub-Area Engineer's Department.

Applicants should have received a recognized architectural training and should be conversant with the design and construction of industrial and commercial type buildings.

The appointment will be permanent and superannuable, and the provisional salary, according to qualifications and experience, will be within the range of Scale "A" of the National Joint Council (Administrative and Clerical) Electricity Supply Industry, £270-£450 per annum, or Class "O," Grade 10c-10, of the National Joint Board, £436-£524 per annum, in either case subject to negotiation with such organisations as are appropriate.

Applications, giving full details of experience, professional and technical qualifications, present salary and position held, should be endorsed "Architectural Assistant," and forwarded within 14 days to Mr. A. C. Evans, Sub-Area Manager, Midlands Electricity Board, 14, Dale End, Birmingham, 4.

A. STEPHENS,
Secretary.
24th August, 1949. 2321

BOROUGH OF SOUTHALE.
APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment on the permanent staff of Architectural Assistant, in the Borough Engineer's Department, at a salary in accordance with A.P.T. Grade IV, of the National Scheme (£480-£525), plus appropriate London weighting.

Candidates should have passed the R.I.B.A. Intermediate Examination and have had local government experience.

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

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

Application, on forms to be obtained from the Borough Engineer, Town Hall, Southale, must be returned to him by 5 p.m. on Thursday, 27th October, 1949.

J. S. SYRETT,
Town Clerk.
2306

BOROUGH OF BILSTON.

Applications are invited for the post of SENIOR ARCHITECTURAL ASSISTANT in the Borough Architect's Department. Salary at the rate of Grade A.P.T., V, £520-£570 per annum.

The appointment is subject to the Local Government Superannuation Act, 1937, and the National Scheme of Conditions of Service, and determinable by one month's notice on either side.

Applications, stating age, full details of qualifications and experience, and accompanied by copies of not more than three recent testimonials, to be sent to the Borough Architect, 20, Wellington Road, Bilston, Staffs., not later than Thursday, 27th October, 1949.

A. M. WILLIAMS,

Town Clerk.
Town Hall, Bilston, Staffs.
30th September, 1949. 2318

CITY OF SHEFFIELD.

CITY ARCHITECT'S DEPARTMENT.
APPOINTMENT OF TECHNICAL STAFF.
Applications are invited from persons with the requisite qualifications, for the following vacancies on the staff of the City Architect (W. G. Davies, F.R.I.B.A.):—

- (a) ARCHITECTS (qualification A.R.I.B.A.)
- (a) Chief Assistant, in charge of Section. Grade X. Salary £850-£1,000.
- (b) Two Chief Assistants, in charge of Sub-Section. Grade IX. Salary £750-£900. One for the General and one for the Education Sections.
- (c) Grade VII. Salary £635-£710.
- (d) Grade VI. Salary £595-£660.
- (e) Grade V(a). Salary £550-£610.
- (f) Grade V. Salary £520-£570.
- (g) Grade III. Salary £450-£495.
- (h) Grade II. Salary £420-£465.
- (i) Grade I. Salary £390-£435.

SURVEYING ASSISTANTS (qualification A.R.I.C.S.).

- (j) Chief Assistant, in charge of Sub-Section. Grade IX. Salary £750-£900.
- (k) Grade VII. Salary £635-£710.
- (l) Grade VI. Salary £595-£660.
- (m) Grade V(a). Salary £550-£610.
- (n) Grade V. Salary £520-£570.
- (o) Grade I. Salary £390-£435.
- QUANTITY SURVEYORS (qualification A.R.I.C.S. and/or A.I.Q.S.).**
- (p) Grade VIII. Salary £685-£760.
- (q) Grade VI. Salary £595-£660.
- (r) Grade V. Salary £550-£610.
- (s) Grade V. Salary £520-£570.
- (t) Grade II. Salary £420-£465.

The appointments will be subject to one month's notice on either side, to be given in writing at any time, and to the terms and conditions of service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, as applied by the City Council to their official staff.

The appointments will also be subject to the provisions of the Local Government Superannuation Act, 1937, and candidates must not be more than 40 years of age or otherwise have previous Local Government service carrying a transfer value within the meaning of the Act.

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

Applications, on forms to be obtained from the City Architect, W. G. Davies, Esq., F.R.I.B.A., Town Hall, Sheffield, 1, must be received by the undersigned not later than the 31st October, 1949.

Canvassing, directly or indirectly, will disqualify.

JOHN HEYS,

Town Clerk.
Town Hall, Sheffield, 1.
1st October, 1949. 2317

CITY OF SHEFFIELD.
CITY ARCHITECT'S DEPARTMENT.
APPOINTMENT OF STRUCTURAL ENGINEER.

Applications are invited from persons with the requisite qualifications for the following vacancy on the Staff of the City Architect (W.G. Davies, F.R.I.B.A.):—

STRUCTURAL ENGINEER. Grade VIII.
Salary £685-£760.

Applicants must hold a minimum qualification of A.M.I.Struct.E., and have experience in modern practice, and design of: (1) Steel Frame Buildings; (2) Reinforced Concrete Construction.

The appointment will be subject to one month's notice on either side, to be given in writing at any time, and to the terms and conditions of service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, as applied by the City Council to their official staff.

The appointment will also be subject to the provisions of the Local Government Superannuation Act, 1937, and candidates must not be more than 40 years of age or otherwise have previous Local Government service carrying a transfer value within the meaning of the Act.

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

Applications, on forms to be obtained from the City Architect, W. G. Davies, Esq., F.R.I.B.A., Town Hall, Sheffield, 1, must be received by the undersigned not later than the 31st October, 1949.

Canvassing, directly or indirectly, will disqualify.

JOHN HEYS,

Town Clerk.
Town Hall, Sheffield, 1.
1st October, 1949. 2316

CARDIGANSHIRE COUNTY PLANNING COMMITTEE.

Applications are invited for the undermentioned vacancies in the County Planning Department:—

(a) PLANNING ASSISTANT. A.P.T., Grade IV-V (£480-£570), according to qualifications.

(b) DRAUGHTSMAN. General Division. Salary according to age, rising from £135 at 14 (male) to £385 at 32 years.

(c) SENIOR CLERK. Higher Clerical Scale. £420-£495.

(d) GENERAL AND FILING CLERK. General Division. Salary according to age, rising from £135 at 16 years (male) to £385 at 32 years.

(e) SHORTHAND-TYPIST. General Division. Salary according to age, rising from £108 at 14 years (female) to £308 at 32 years.

Candidates for the various appointments should have the following experience:—(a) Preparation of Town and Country Planning Schemes and Development Plans. Preference will be given to candidates with architectural training. (b) Neat draughtsmen, with aptitude for free hand sketching and colouring. (c) Wide administrative and clerical experience, preferably in a local government office. Experience in the supervision of staff is essential. (d) General office routine, typing, keeping records and modern filing methods. (e) Capable typists and shorthand writers.

The appointments will be subject to (i) National Scheme of Conditions of Service; (ii) the provisions of the Local Government Superannuation Act, 1937; (iii) the passing of a satisfactory medical examination, and (iv) one month's written notice on either side.

With the exception of appointment (a) the above are inserted with the approval of the Ministry of Labour and National Service under the Control of Engagement Order, 1947.

Applications, stating age, qualifications and experience, together with the names of two referees, must reach the undersigned not later than noon on Wednesday, 12th October, 1949.

NORMAN GREENWOOD,
Acting Clerk to the County Planning Committee.
Cambrian Chambers, Aberystwyth.
27th September, 1949. 2276

COUNTY OF CORNWALL.

APPOINTMENT OF DRAUGHTSMEN.

Applications are invited for posts of Draughtsmen in the Area Office at Liskeard of the County Planning Department. Salary on a Grade £315×£15=£420 a year.

Successful candidates will be engaged on the colouring of maps from field survey material, with reference to the control of development, together with work involved in the examination and registration of applications for planning permission.

Candidates should be capable of colouring maps, making tracings, and undertaking lettering thereon to a high standard. These vacancies are of particular interest to those persons intending to make a career in Town and Country Planning, and every encouragement will be given by the County Council, including financial assistance, to candidates preparing for appropriate examination qualifications.

All the foregoing appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and each successful candidate will be required to pass a medical examination. Canvassing, either directly or indirectly, will disqualify, and every candidate must disclose in the application whether to their knowledge he or she is related to any member of the Council or to the holder of any senior office under the Council.

Applications, together with one testimonial and the names of two persons to whom reference may be made, should be addressed to the County Planning Officer, County Hall, Truro, not later than 22nd October, 1949. No application forms are issued. This advertisement is issued by permission of the Ministry of Labour and National Service, under the Control of Engagement Order, 1947.

E. T. VERGER,

Clerk of the County Council.
County Hall, Truro.
26th September, 1949. 2271

THE NORTH WESTERN ELECTRICITY BOARD.

NO. 5 SUB AREA.
BUILDING AND CIVIL ENGINEERING ASSISTANT.

Applications are invited for the appointment of Building and Civil Engineering Assistant at No. 5 Sub Area Headquarters, Jubilee Street, Blackburn.

Candidates should have received a recognised training and have some experience in the design and erection of industrial and commercial buildings. Experience in the preparation of estimates and specifications, together with a knowledge of Builders Quantities, will be an advantage and preference will be given to a member of the Royal Institute of British Architects.

The salary will be in accordance with the Board's Grade 2 Salary within the range £525-£625 per annum. The salary is provisional and subject to negotiations by the appropriate body.

Applications, stating age, qualifications and experience, present position and salary, should be received by the Establishment Officer, The North Western Electricity Board, Cheetwood Road, Manchester, 8, not later than Saturday, the 22nd October, 1949.

JAMES W. CHANT,

Secretary.
2315

NORTHAMPTONSHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. APPOINTMENT OF TEMPORARY TECHNICAL ASSISTANT.

Applications are invited for the appointment of Technical Assistant on the Temporary Staff of the County Architect. Candidates should have had experience in all types of building work and will be expected to assist in the abstracting and billing of quantities for all trades; practical experience in measuring up on the site for small contracts and the preparation of interim and final certificates is required, and a preliminary professional qualification will be an advantage. Preference will be given to a candidate with experience of Ministry of Works Standard 24-ft. span hutting.

Salary will be in accordance with Grade III of the APT Division of the National Scale of Salaries, viz., £2450-£2495.

If the selected candidate is married, is unable to obtain a house in or near Northampton and is compelled to maintain his family elsewhere, his salary will be temporarily increased by 25s. per week together with such sum as will reimburse him for the cost of a third-class return railway ticket to his family's home once every two months, his circumstances to be reviewed by the appropriate Committee of the Council every three months.

The County Council have adopted the Conditions of Service as set out in the National Scheme for their temporary employees. The appointment will be determinable by one month's notice on either side and the selected candidate will be required to pass a medical examination before the appointment is confirmed.

Travelling allowance under the scale approved, from time to time, by the County Council, will be payable and the selected candidate will be permitted to use a motor car or motor bicycle. Candidates should state whether they hold a driving licence.

No form of application will be issued, but candidates should forward particulars of age, education, qualifications and experience, together with the names of two persons to whom reference can be made, and a copy of a recent testimonial, in a sealed envelope endorsed "Temporary Assistant," to the County Architect, County Hall, Guildhall Road, Northampton, so as to reach him not later than 10 a.m. on the 17th October, 1949.

J. ALAN TURNER.

Clerk of the County Council.

County Hall, Northampton. 2312

COUNTY OF KINCARDINE. COUNTY ARCHITECT AND PLANNING OFFICER.

Applications are invited for the post of County Architect and Planning Officer. Applicants should be Architects, preferably with a planning qualification, and should have had practical experience in the whole-time service of a Local Authority.

The salary scale is £250 by annual increments of £50 to £1,050. Placing on this scale may be granted in accordance with qualifications and experience. The post is superannuable and medical examination will be required. A house will be available.

A statement of the duties, terms and conditions of appointment, etc., may be obtained from the undersigned, with whom applications, including the names of three referees, should be lodged not later than 29th October, 1949.

JOHN SLEVIN,

County Clerk.

33, Evan Street, Stonehaven. 2314

BOROUGH OF BRENTFORD & CHISWICK. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant on the temporary staff, at a consolidated salary according to the APT Division, Grade VI, of the National Scheme, commencing last year, (£2595-£2660) plus revised London Weighting according to age.

Applicants should be Associate Members of the Royal Institute of British Architects (or hold a similar qualification) but consideration will also be given to applications from persons intending shortly to take the Associate Examination.

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

Applications for the above-mentioned appointment must be made on the prescribed form (which contains the particulars and conditions of appointment) obtainable from the undersigned, by whom applications must be received not later than 25th October, 1949.

W. F. J. CHURCH,

Town Clerk.

Town Hall, Chiswick, W.4. 2313

TONBRIDGE RURAL DISTRICT COUNCIL. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above-mentioned temporary appointment to the staff of the Engineer and Surveyor, at a salary in accordance with Grade III of the A.P.T. Division of the National Scale of Salaries (£2450-£2495 per annum). The appointment is in connection with the Council's Housing Scheme. Preference will be given to candidates who are already qualified

or are partially qualified by examination of a professional institution. The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

Arrangements can be made, if desired, for the person appointed to rent a house on a private estate.

Applications, stating age, qualifications and experience, accompanied by two recent testimonials, should reach the undersigned not later than Friday, 21st October.

B. LEE,

Clerk of the Council.

48, Pembury Road, Tonbridge, Kent. 2311

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

ARCHITECTURAL ASSISTANTS required immediately for interesting and varied work on Schools, Hospitals, University Buildings, Housing, etc.; salary dependent on experience and qualifications. Apply personally by telephone or in writing. Pite Son & Fairweather, Chartered Architects, 6, Queen Anne's Gate, Westminster, S.W.1. Whitehall 5576. 1862

SENIOR ASSISTANT ARCHITECT. A.R.I.B.A. standard, required in busy London office; able to take complete charge of jobs from first stage; also Junior Assistant up to intermediate standard. Write, with particulars of experience, age, qualifications and salary required, to E. Bates and Wm. G. Sinning, 89, Chancery Lane, W.C.2. 2009

ASSISTANT required by West End Architect specialising in property maintenance, alterations, Council housing, etc.; salary £500 p.a.; this is a post with considerable interest and some responsibility. Please reply with particulars of experience, age, etc., to Box 2110.

SENIOR AND INTERMEDIATE ARCHITECTURAL ASSISTANTS required; knowledge of general practice, industrial work, war damage, etc.; salary according to capabilities. Applications to Mackintosh, Beecroft & Partners, 11, Orchard Street, Bristol, 1. 2111

ARCHITECTURAL ASSISTANT required in the Office of National Brewers; maintenance and improvement of licensed properties; superannuation scheme; commencing salary about £500 p.a. Write in first instance to Whitbread & Co., Ltd., 27, Britannia Street, London, W.C.1. 2134

SENIOR ARCHITECTURAL ASSISTANT required for a progressive appointment in Company Architect's office in London, with good salary to a really capable man; also JUNIOR DRAUGHTSMAN required, of Intermediate standard. Applicants should state age, experience and qualifications to Box 2226.

ARCHITECTURAL ASSISTANT (SENIOR) required for permanent and progressive appointment with firm in private practice; fully qualified or Finals standard; good salary to suit able applicant. Full particulars to W. S. Hatfield & Partners, 1, Queen's Road, Coventry. 2281

ARCHITECTURAL ASSISTANT (R.I.B.A.) Final standard required by firm having wide and varied practice; permanent position, with excellent prospects. Apply, giving particulars of experience, age, qualifications, and salary required, to Box 2220.

ARCHITECTURAL ASSISTANT and also **ARCHITECTURAL DRAUGHTSMAN** required in established practice, mainly business premises over whole country; pleasant conditions; permanent and good prospects. Apply with all particulars to North & Partners, Queen Street Chambers, Maidenhead. 2192

WEST OF ENGLAND Architect requires for General Practice:—

(1) **SUPERVISOR** for work in progress, preferably young Quantity Surveyor, able to measure and check work and Contractors' accounts; car owner preferred but must be able to drive car.
(2) **ARCHITECTURAL ASSISTANT**, in Grade £250-£450; good Draughtsman, with experience. Five-day week; country town.

Full particulars of age, training, experience, and salary required, to Box 2243.

CITY Architects require capable **JUNIOR ASSISTANT**; passed R.I.B.A. Intermediate Examination; some previous experience in housing or licensed premises desirable, but not essential; 5-day week; profit sharing bonus scheme; salary £2350-£400, according to experience and qualifications; good prospects. Apply by letter, Stewart & Hendry, F/A/R.I.B.A., A.M.T.P.L., 90, Fenchurch Street, E.C.3. 2244

ARCHITECT requires **JUNIOR ASSISTANT** for general practice; salary in accordance with experience. Write in first instance, giving details, J. Roland Sidwell, A.R.I.B.A., 27, Union Street, Coventry. 2095

ARCHITECTURAL ASSISTANT required by large Transport Company. Progressive post with varied experience. Superannuation Scheme. Send details of education and work history with salary required to Box 2254.

ASSISTANT BUILDING SURVEYOR required by large Transport Company. Progressive post with varied experience. Superannuation Scheme. Send details of education and work history with salary required to Box 2255.

NORTH THAMES GAS BOARD.—ARCHITECTURAL ASSISTANTS required, preferably experienced in the design, alteration and maintenance of industrial buildings, and capable of preparing surveys, working drawings, details and specifications; starting salary range £480-£560 per annum, according to age and qualifications; the appointment is of a permanent nature, and pension arrangements will be discussed with short list candidates. Applications, stating age and full particulars of training and experience, should be sent to the Staff Controller, North Thames Gas Board, 30, Kensington Church Street, London, W.8. 2197

ARCHITECTS. SENIOR ASSISTANTS required. Should have good knowledge of commercial and industrial buildings and contemporary design. Apply in writing to S.C.W.S., Ltd., Architectural Department, 119, Paisley Road, Glasgow, C.5. Envelopes to be endorsed "Architect." 2025

QUANTITY SURVEYORS. SENIOR ASSISTANTS required. Preferably with pro-war experience in Scheduling; probable costing; measuring and agreeing Final Measurements. Apply in writing to S.C.W.S., Ltd., Architectural Department, 119, Paisley Road, Glasgow, C.5. Envelopes to be endorsed "Surveyor." 2026

CAPABLE ASSISTANT required for general practice; able to take complete charge of contracts; accommodation available. C. B. Martindale, A.R.I.B.A., Cathedral Chambers, Castle Street, Carlisle. 2265

ARCHITECTURAL ASSISTANT required; experienced, able to take charge of small drawing office, good draughtsman, with knowledge of Quantity Surveying and Specifications. Reply in writing, stating full particulars and salary, to J. M. Porter & Co., The Estate Office, Colwyn Bay. 2263

THE RAILWAY EXECUTIVE invite applications from Associates of the Royal Institute of British Architects for the following appointment in the office of the Architect to the Executive at Marylebone Road, London, N.W.1:—
ARCHITECTURAL ASSISTANT (R.E.21)

Applicants must possess design ability, a keen interest in modern architectural development, good draughtsmanship, and all-round practical experience. Candidates from outside the Railway Service will be in competition with Architects already employed by British Railways.

The salary offered is in the region of £500-£550 per annum, according to the qualifications of the successful candidate, who will be eligible for membership of a Superannuation Scheme, subject to the requirements of the Rules.

Applications, giving full particulars of education, experience and age, should be sent within 14 days to The Secretary, Railway Executive, 222, Marylebone Road, London, N.W.1. It is emphasised that any approach except in the form of a direct and written application from candidates themselves will disqualify an applicant. 2262

THE RAILWAY EXECUTIVE invite applications for the post of **ASSISTANT ARCHITECT, Southern Region**. Candidates must be Associates of the Royal Institute of British Architects and have had practical experience in a responsible position, and possess ability to direct a large staff of Assistants. They must be able designers with a keen interest in contemporary architecture. Candidates from outside the Railway Service will be in competition with architects already employed by British Railways.

The commencing salary offered is in the region of £800 per annum, according to the qualifications of the successful candidate, who will be eligible for membership of a Superannuation Scheme, subject to the requirements of the Rules.

Applications, giving full particulars of education, experience and age, should be sent within 14 days to The Secretary, Railway Executive, 222, Marylebone Road, London, N.W.1. It is emphasised that any approach except in the form of a direct and written application from candidates themselves will disqualify an applicant. 2261

ARCHITECT'S ASSISTANTS required for permanent and pensionable appointments in London office of commercial company's staff architect; applicants should be neat draughtsmen and capable of preparing sketch plans, working drawings and details under supervision; positions offer good scope for advancement. Apply, giving full details of age, experience, and commencing salary required, to Box 2260.

ARCHITECTURAL ASSISTANT required for small progressive London office dealing with general design, housing, interior; quick and neat draughtsman; state experience and salary required. 2269

ASSISTANT ARCHITECT required for work of great variety; applicants should be A.R.I.B.A., preferably school trained, with office experience, and able to assume responsibility for all stages of work and large contracts. Write, stating age, experience, and salary required, to T. P. Bennett & Son, 43, Bloomsbury Square, W.C.1. Telephone Chancery 6691. 2274

TWO qualified ARCHITECTURAL ASSISTANTS required, with experience of design and working drawings, in private office, London West Central area. Apply, giving particulars of experience and salary required, to Box 2275.

IMPERIAL WAR GRAVES COMMISSION invite applications from suitably qualified candidates for the post of **INSPECTOR-INDIA** in their India and Pakistan District; candidates should be engineers or architects, with knowledge of permanent building construction in India and practical detailed knowledge of monumental stone work; age 35 to 40; preference will be given to ex-Servicemen; salary scale £500×£20-£625 per annum, plus variable Foreign Service allowance, at present at the rate of £415 for a single man, £608 per annum for a married man unaccompanied by his wife, or £640 per annum for a married man accompanied by his wife. Emoluments as above are net. Applications to be addressed to the Appointments Officer, Imperial War Graves Commission, Woodburn House, Woodburn Green, High Wycombe, Bucks. 2278

TWO Temporary JUNIOR QUANTITY SURVEYORS required; competent for working-up, assist in taking off and assist in site measurement; alternate Saturdays off duty; canteen facilities. Apply in writing to Box 2234.

ARCHITECT in Midland town urgently requires capable part-time **ASSISTANTS** for contemporary work on schools, factories, etc., to work at home or in Architect's office; good remuneration and prospects; give details of capabilities. Box 2309.

ARCHITECTURAL ASSISTANT required immediately for S.W. London; interesting work in connection with large building for the Festival of Britain, 1951; should be good draughtsman, with experience in detailing; salary according to experience. Write, stating full particulars, to Box 2297.

SENIOR ARCHITECTURAL ASSISTANTS required; good salary and permanent situation. Apply by writing to Wood, Goldstraw & Yorath, 42, Cheapside, Hanley, Stoke-on-Trent. 2300

SENIOR ASSISTANT ARCHITECT urgently required; able to take complete charge of jobs from preliminary stage; experienced in factory work essential. Write, giving experience, qualifications, and salary required, to Box 229, Phillips Advertising, Thanet House, Craven Road, W.2. 2299

ARCHITECTURAL ASSISTANT required by S.W. England firm of Architects; must be capable of preparing working drawings, details, surveys and taking levels. Reply, giving full particulars of experience, age and salary, to Box 2298.

SANITARY ENGINEER-ASSISTANT required for Architect's office, London West Central area; must be neat draughtsman, with general knowledge of sanitation and experience of modern drainage, design, services, etc.; give details of experience, age, salary required, and date available, to Box 2290.

ARCHITECTURAL ASSISTANT, capable of working with little or no supervision, required by City firm of Architects and Surveyors; good prospects for right man. Write, with details of qualifications, experience, age, and salary required, to Box 2294.

ARCHITECTURAL ASSISTANT required; capable of preparing sketch schemes, working drawings, and details for housing and light industrial work; North-West Kent area. State experience and salary required to Box 2296.

ASSISTANTS required in Architect's office in London; must have good knowledge of construction, and be capable of surveying buildings, preparing working and detail drawings; prospect of permanency for suitable applicants. Write, stating age and experience, Box 2283.

SENIOR DRAUGHTSMAN, Inter. to Final standard, required urgently. Write, stating experience and salary required, Kenneth Anna, L.R.I.B.A., 1, Lincoln's Inn Fields, W.C.2. 2325

ASSISTANT (SENIOR) required for responsible position in London Architects' office; work includes new School, industrial and Government buildings; good salary to suitable applicant. Write, stating age, experience, and salary required, to Box 2288.

ARCHITECTURAL ASSISTANTS required for a general architectural practice. Reply, stating experience and salary required, to Thomas Worthington & Sons, 178, Oxford Road, Manchester, 13. 2289

SENIOR ARCHITECTURAL ASSISTANT, Final Standard, and **JUNIOR ASSISTANT**, Intermediate Standard, required for varied and interesting work in connection with development programme of a Brewery Company in the Birmingham area; the appointments would become permanent to suitable candidates, and superannuated. Apply, stating age, experience and salary, to Box 2285.

Architectural Appointments Wanted

QUALIFIED QUANTITY SURVEYOR, desiring change, age 32, keen worker, seeks appointment with Architects or Builder; preference to appointment where housing accommodation available. Reply for further particulars. 380

A.R.I.B.A., over 20 years' experience and used to responsibility, seeks a position in the South, having prospects of Partnership; capable of dealing with the various Ministries, authorities and regulations relative to the restrictions on modern building. Box 381.

LICENTIATE (41), fully experienced and able to handle jobs from start to finish, desires responsible position; North or mid-Lancashire preferred. Box 382.

CAPABLE SHORTHAND-TYPIST-SECRETARY seeks position in Architect's office. Please write Box 383.

A.R.I.B.A. (33), 15 years' wide experience in the profession and now managing an office in London, desires similar post in a South-Coast town; experience covers schools, factories, office blocks, departmental and retail stores, and housing; specifications, bills of quantities, contract management, etc., surveying and levelling; town planning qualifications. Please reply Box 384.

Other Appointments Vacant

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

ARCHITECTURAL Journal requires **EDITORIAL ASSISTANT**; knowledge of architecture essential; some journalistic experience and knowledge of magazine production useful. Box 345.

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DRAUGHTSMEN wanted; used to Metal Windows and Brakepress work. Apply Morris Singer Co., Ferry Lane Works, Forest Road, Walthamstow, E.17. 2141

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SENIOR L.R.I.B.A. offers part-time or occasional assistance; London, S. Bucks., or Oxon.; long general experience, mainly housing and flats; private architects only. Box 2150.

ARCHITECTURAL ASSISTANT, fully qualified, prepared to do any type of Architectural work in spare time. Box 2139.

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TO OVERSEAS ARCHITECTS.—An Associate, with wide practical experience abroad, first-hand knowledge post-war conditions in a dozen countries outside Europe, offers advisory service, suitability home materials, equipment, etc., advertising, interviewing staff, duplication plans, technical enquiries from London office, and similar assistance; businesslike. Enquiries to Box 2308.

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YOUNG QUALIFIED QUANTITY SURVEYOR desires change; preferably with professional firm in Leeds area. Box 2258.

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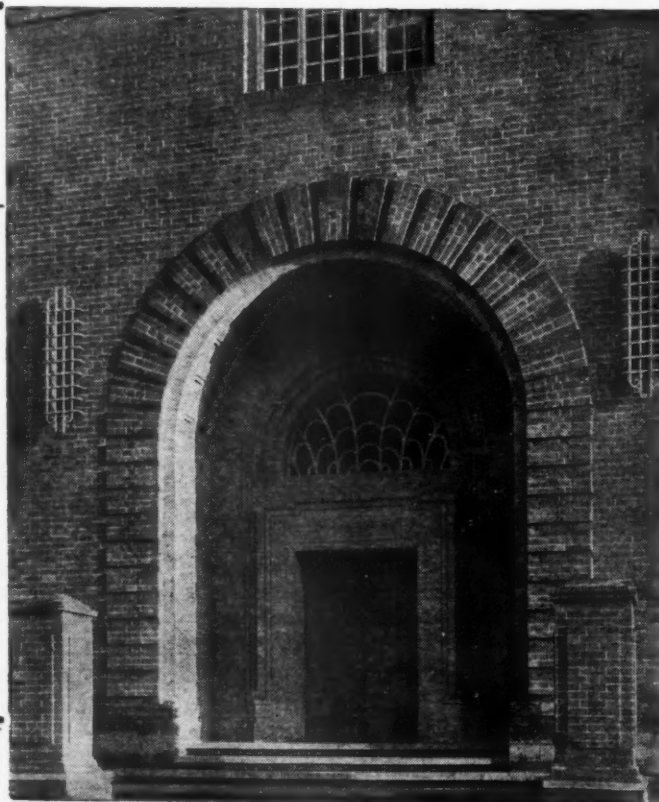
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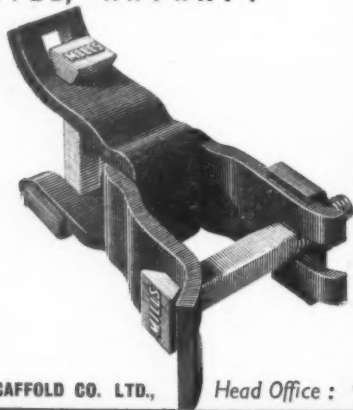
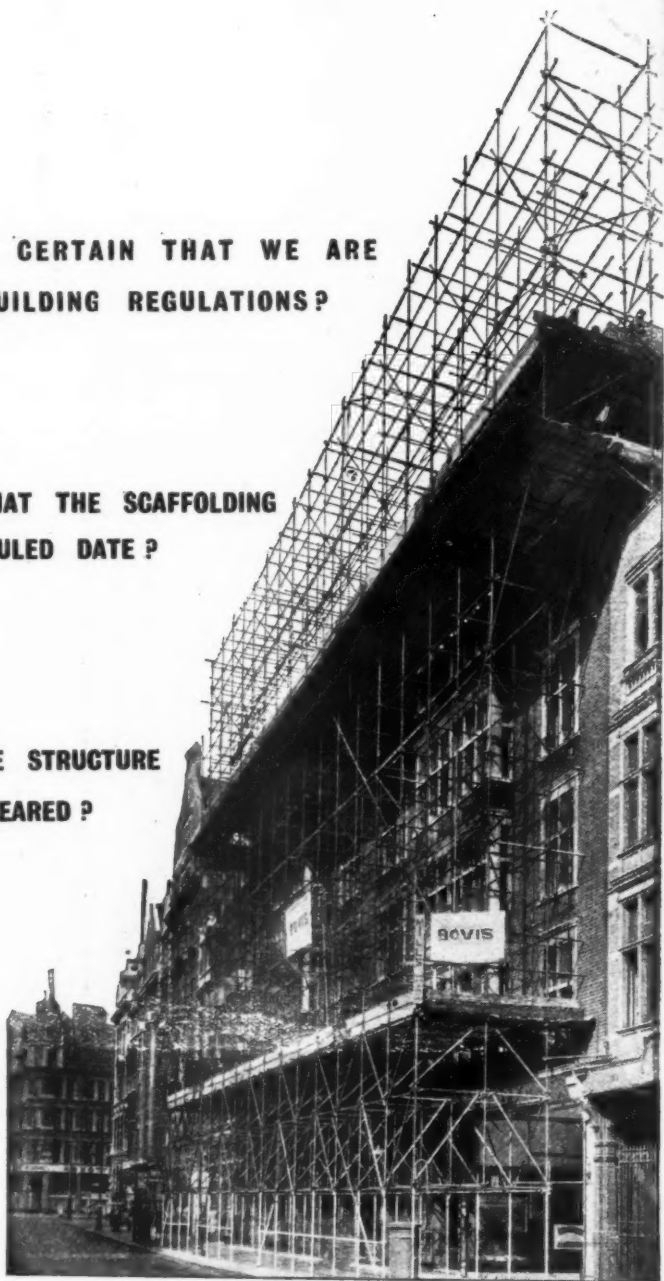
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