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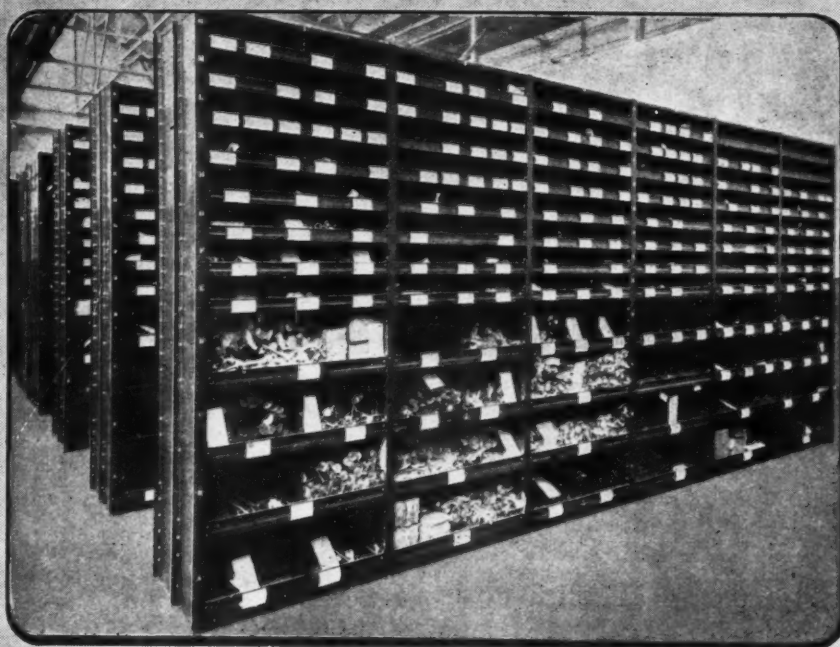
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## ANOTHER WARERITE TRANSFORMATION

*The Moo Cow Milk Bar, Cambridge Circus, London, as it is now and as it was before renovation by WARERITE Laminated Plastics. The counter top is faced with dark red WARERITE veneered board, and the flush bar front is built up with pink WARERITE panels. Shelves, wall panels and ceiling are of the same materials and colour scheme.*



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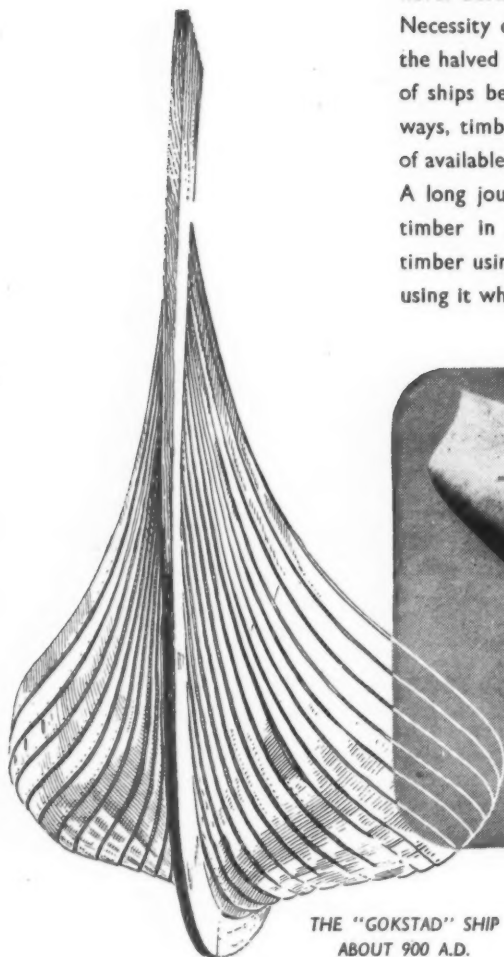
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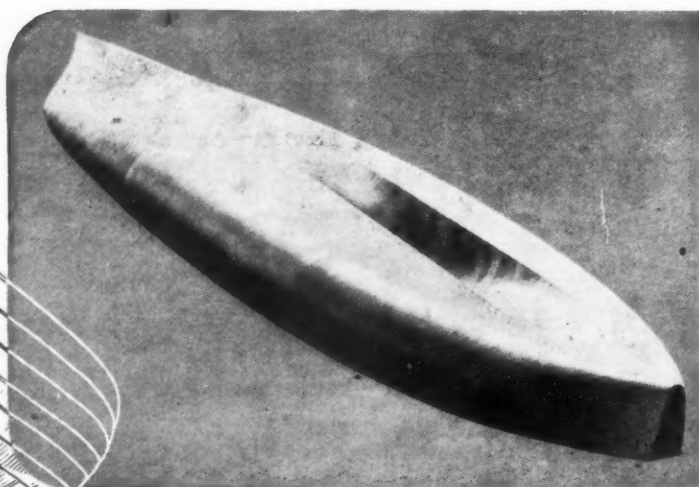
A thousand years ago there was a timber shortage in England. Saxon Angle, Norseman and Dane had so cleared the valleys of readily available trees that extraction was becoming more difficult and costs were rising. In the North, matters became desperate after Norman William burnt thousands of acres of tree-covered wold, much of which has never borne timber since.

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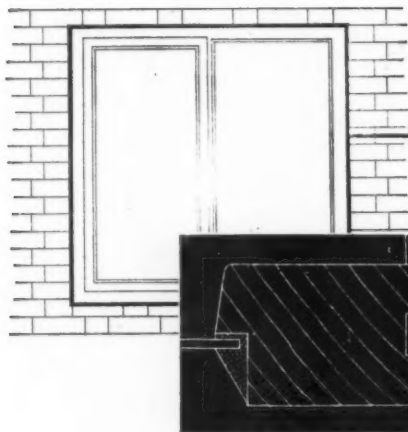
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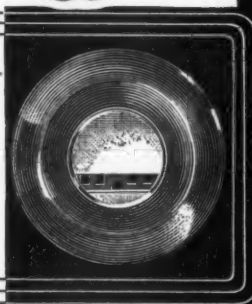
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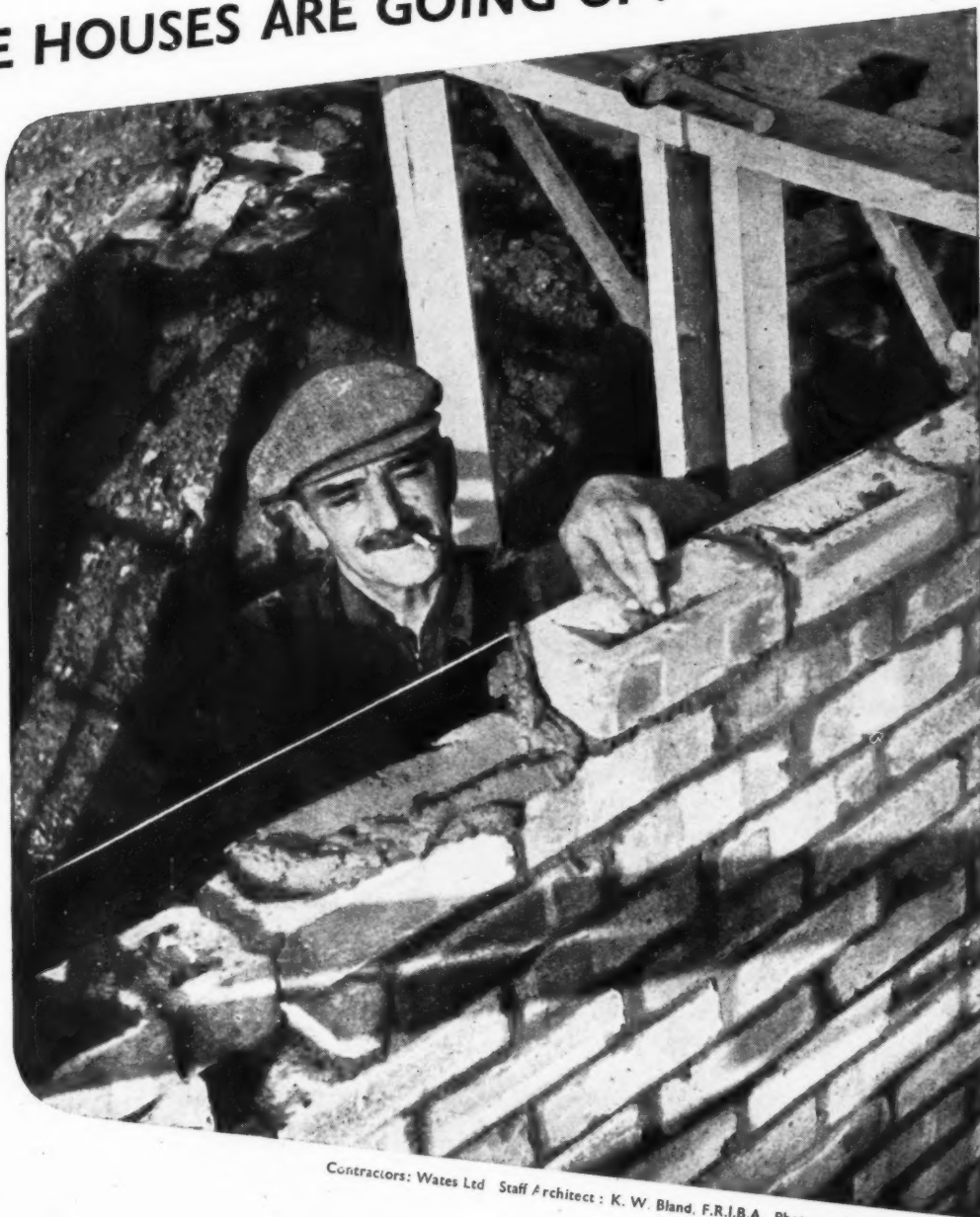
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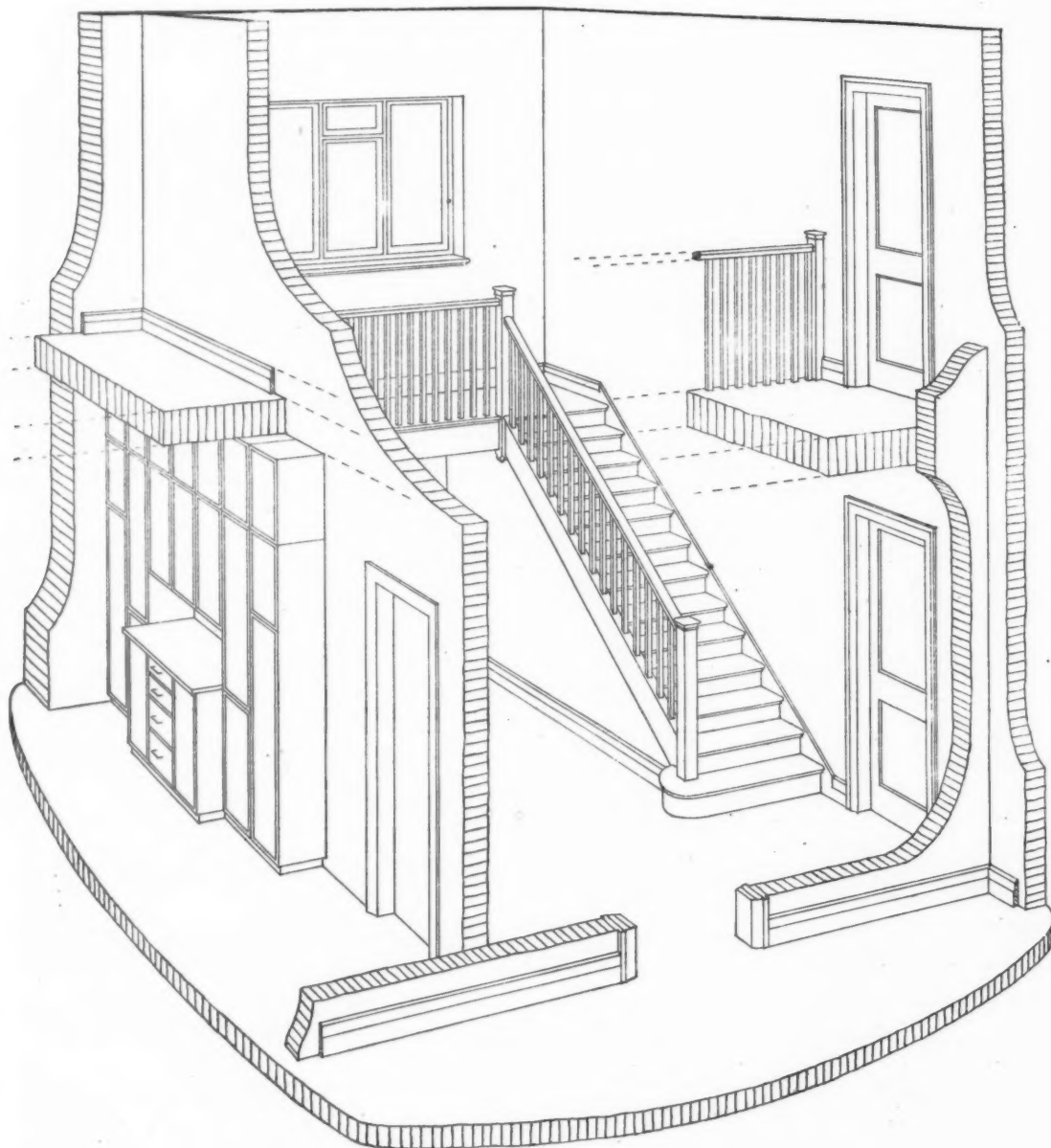
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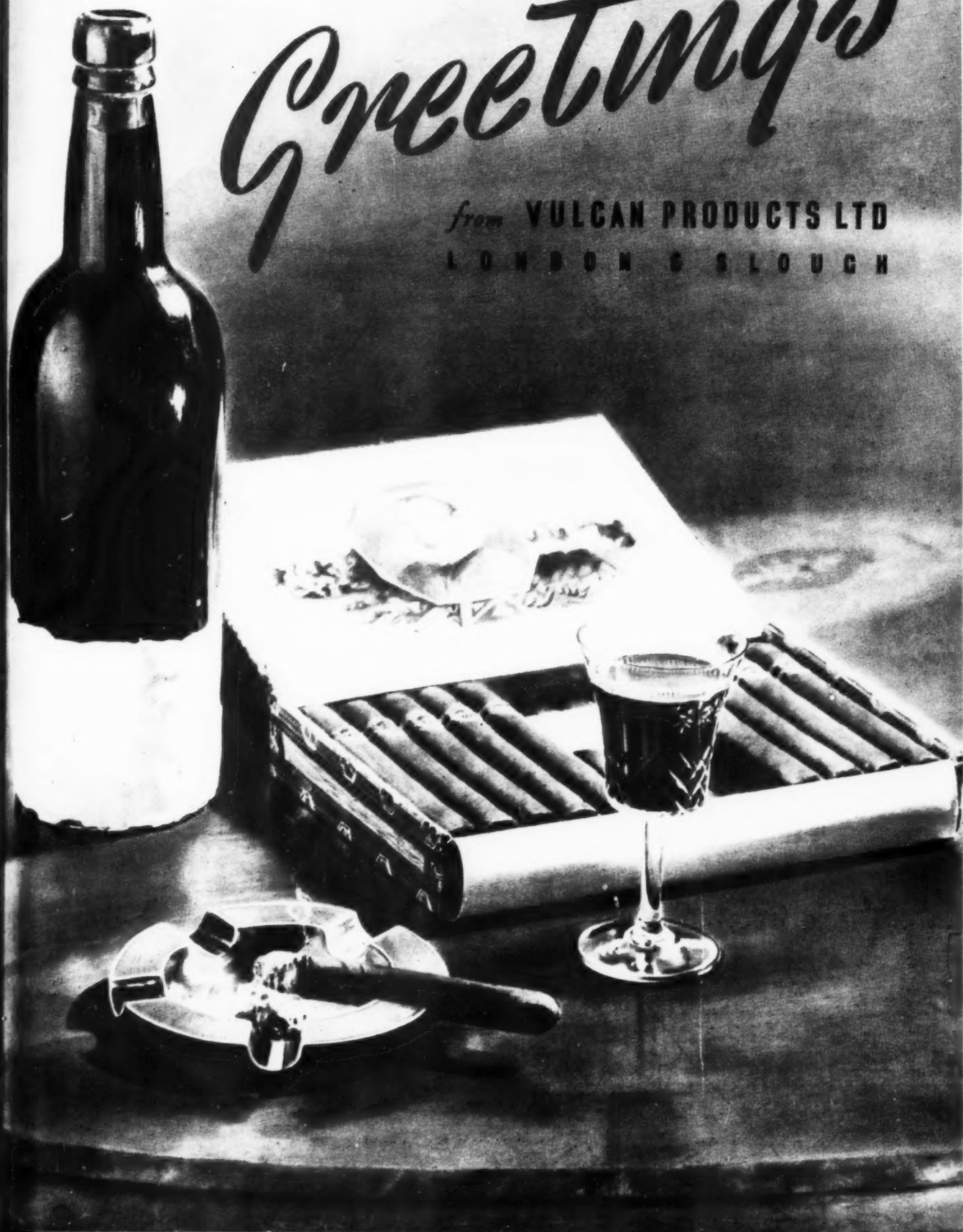






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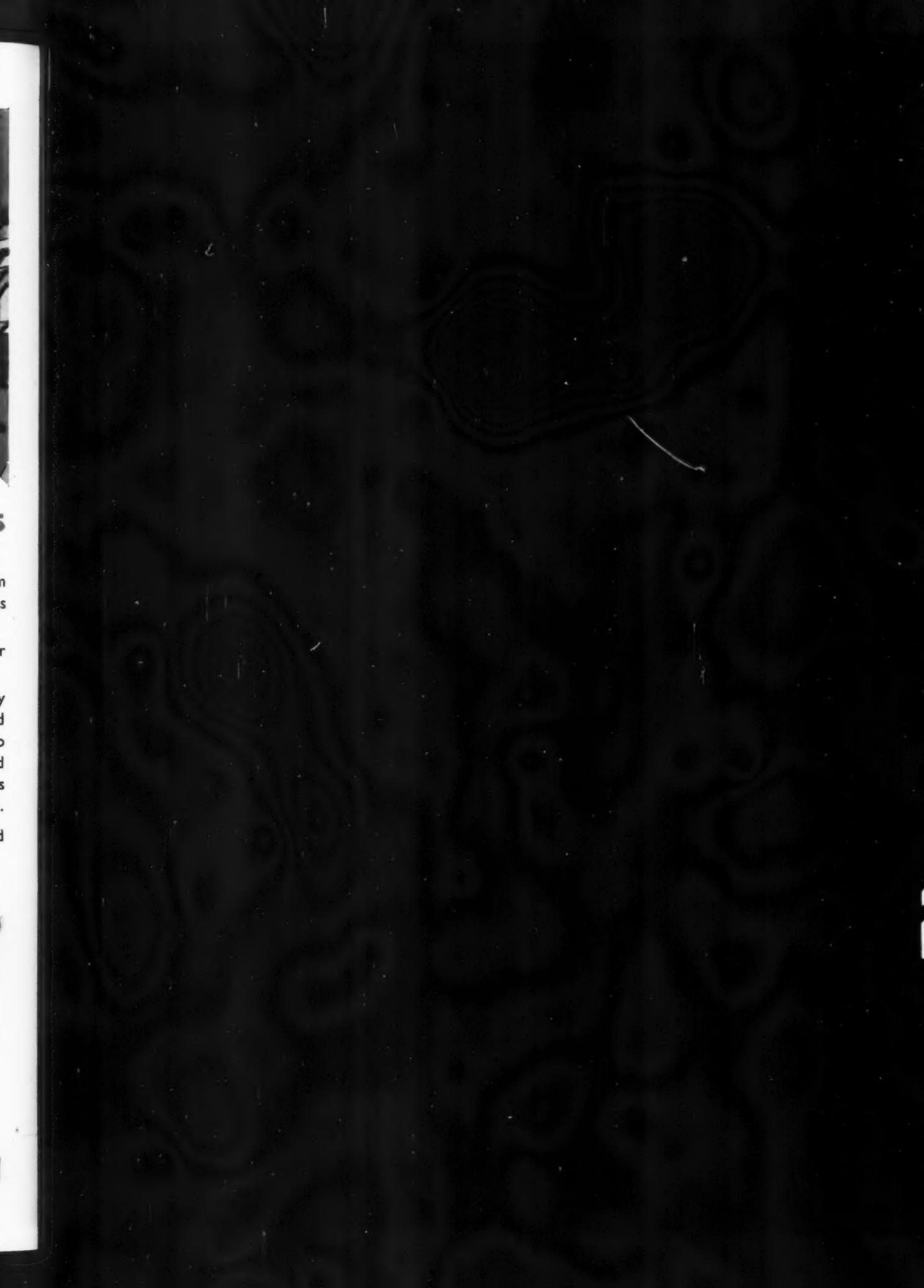


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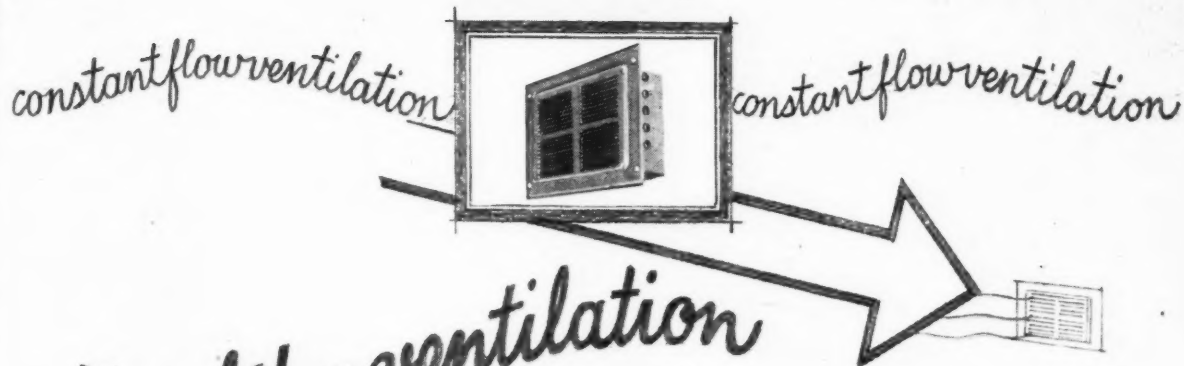
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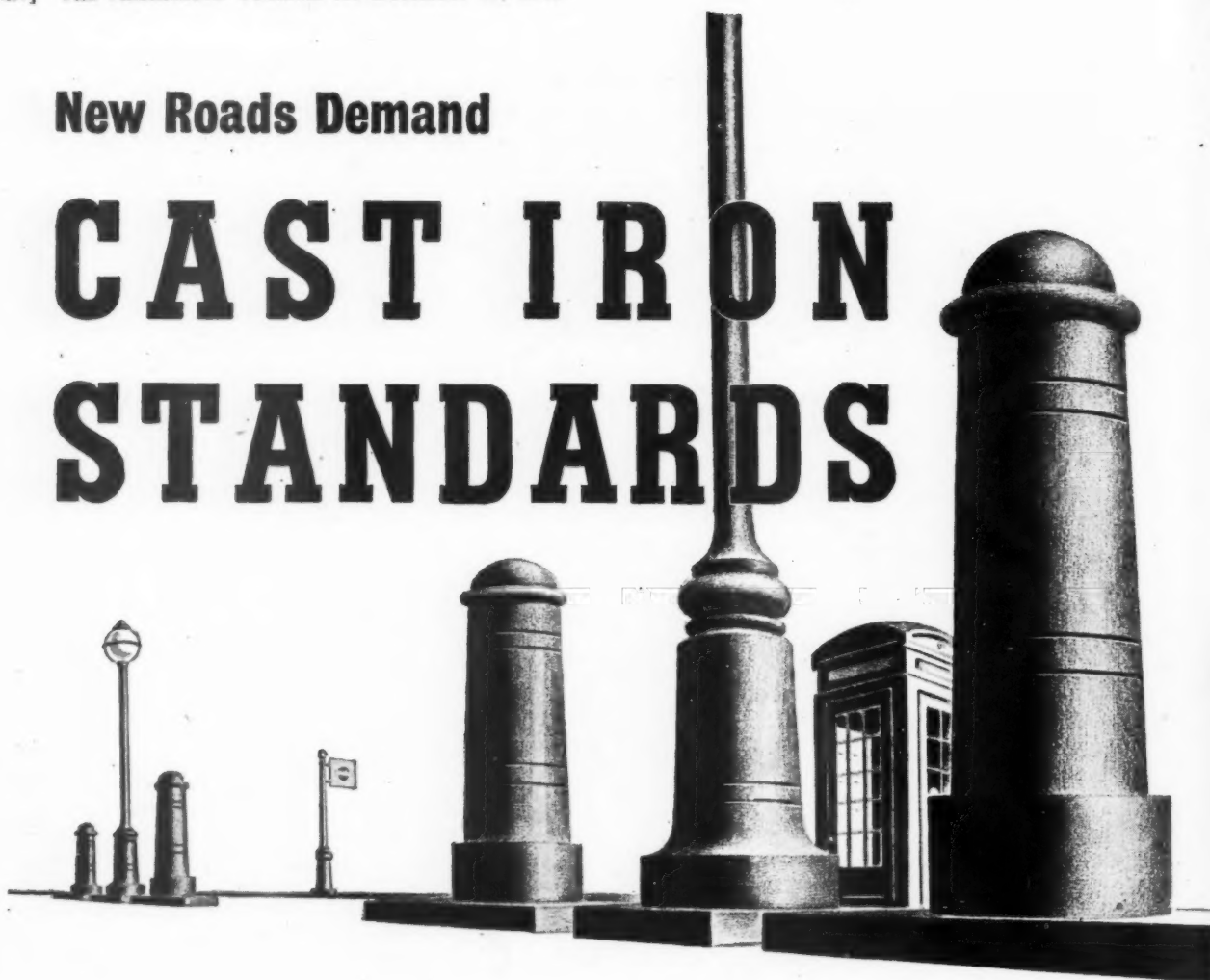
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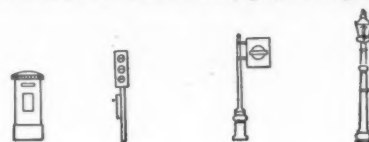
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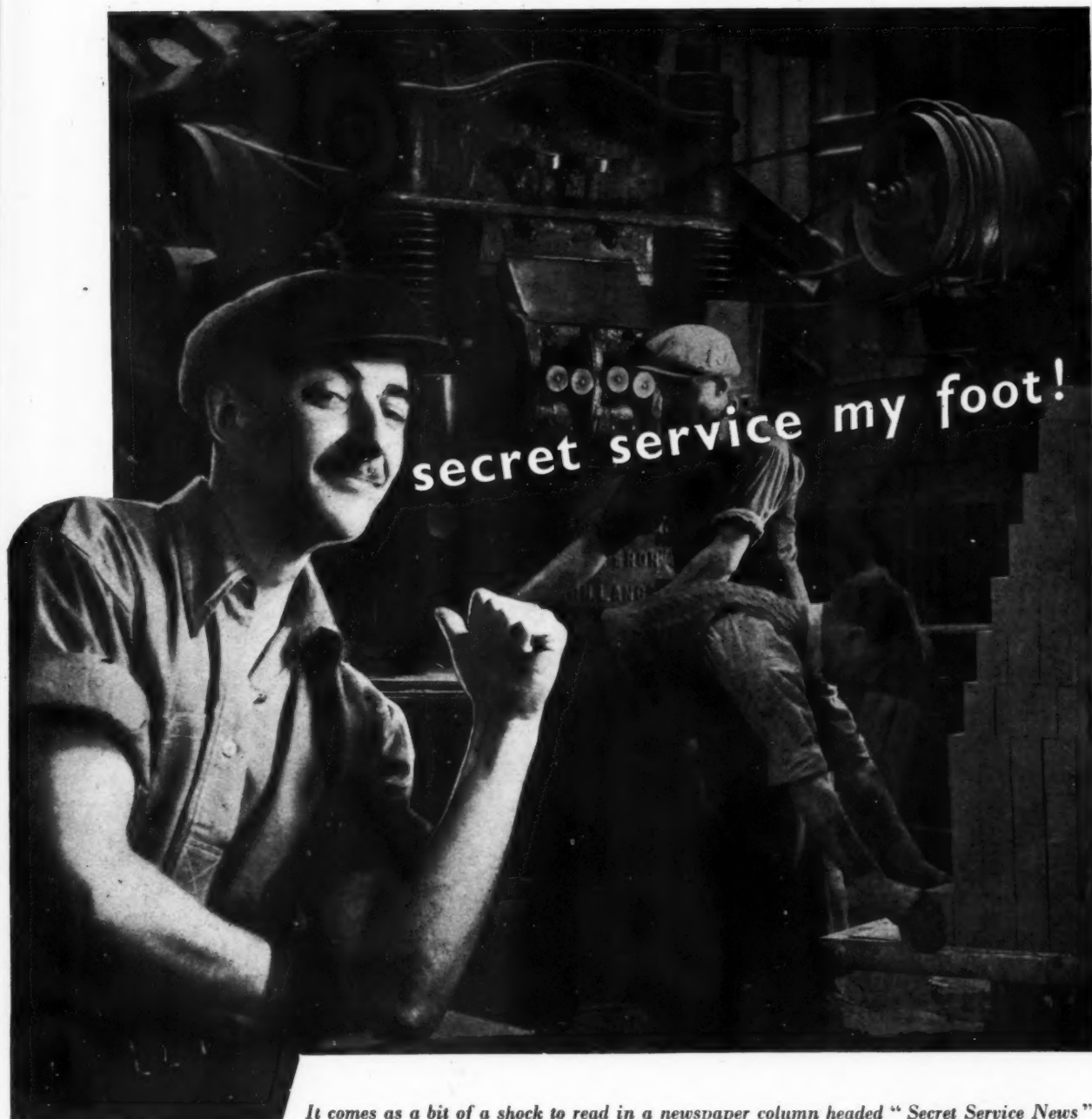
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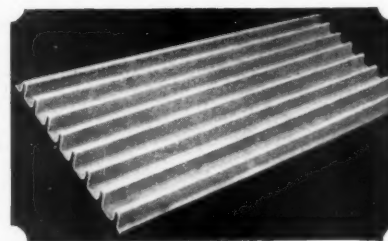
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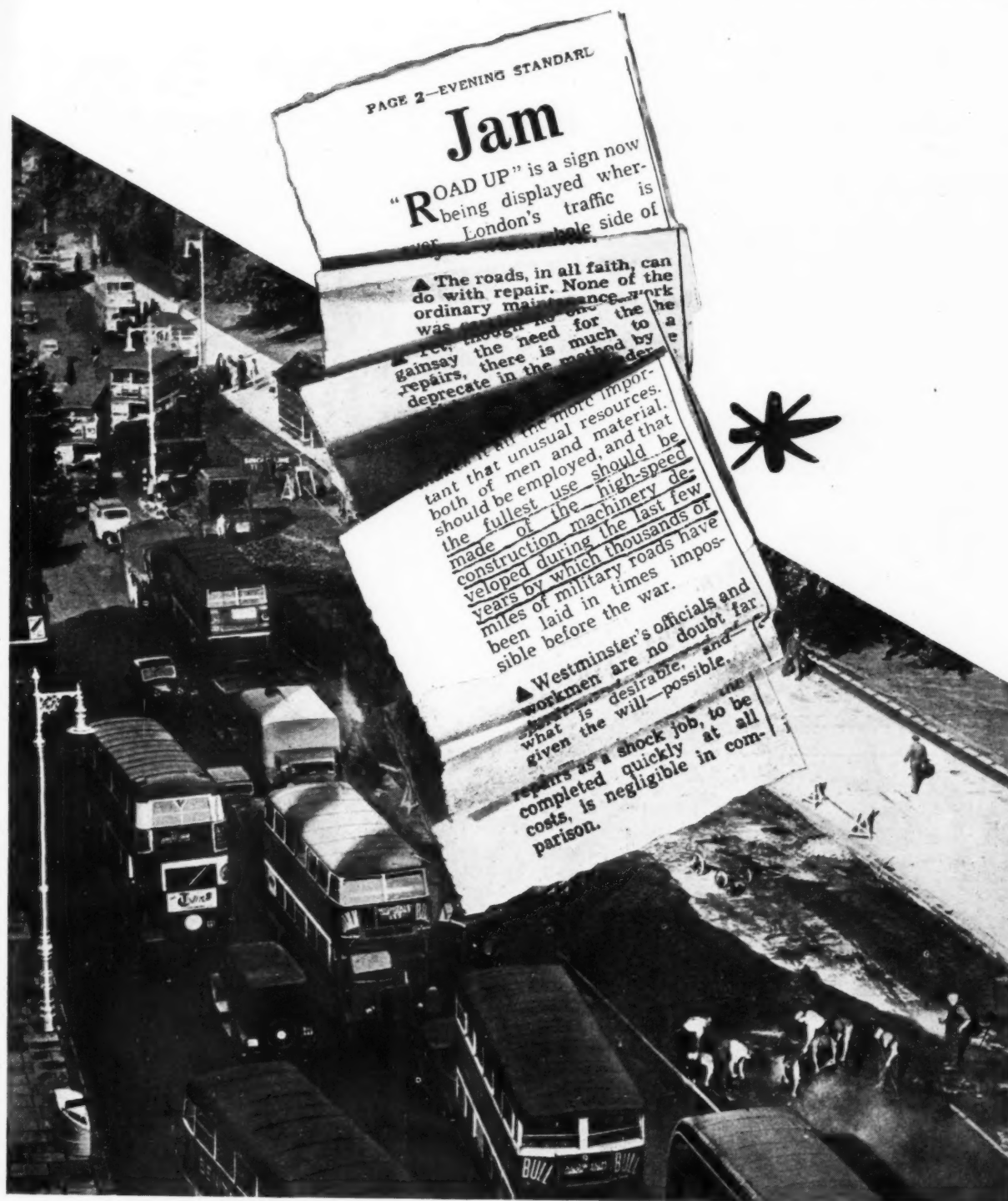
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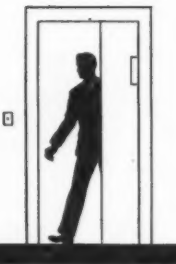
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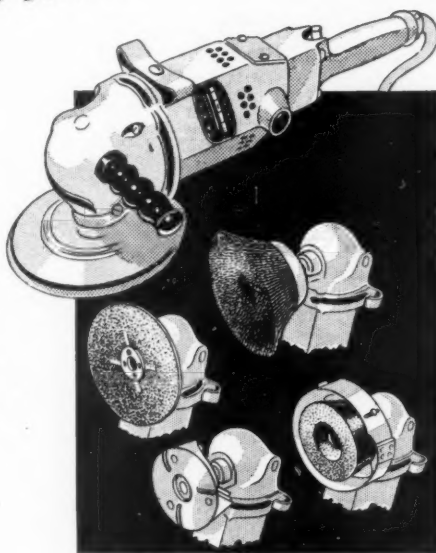
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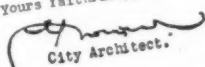
  
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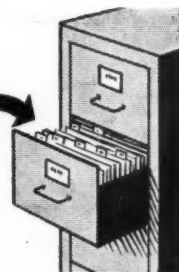
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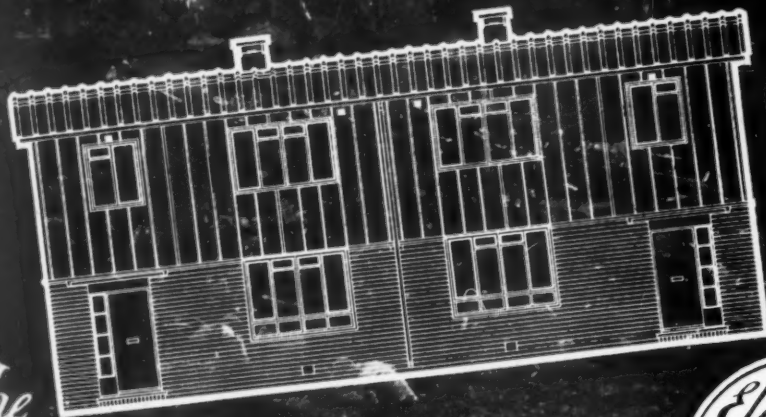
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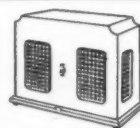
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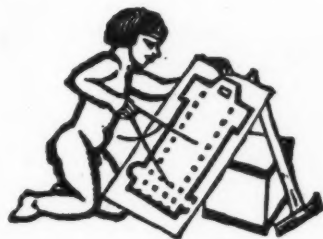
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## DIARY FOR DECEMBER JANUARY AND FEBRUARY

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

**BIRMINGHAM.** J. H. Nelson. *Industrial Decoration.* At the Imperial Hotel, Temple Street, Birmingham. 6 p.m. (Sponsor, IES, Birmingham Centre.) JAN. 3

L. A. Bawden. *Some Considerations Affecting the Use of Steam for Space and Process Heating.* At the Imperial Hotel, Birmingham. 6.30. (Sponsor, IHVE, Birmingham and District Branch.) JAN. 16

**DERBY.** *English Water Colours from the Hickman Bacon Collection.* Exhibition at the Museum and Art Gallery. (Sponsor, the Arts Council.) Until JAN. 11

**KETTERING.** *The Engineer in British Life.* Exhibition at the Public Library, Art Gallery and Museum. (Sponsor, the Arts Council.) Until DEC. 30

**LONDON.** *Exhibition of the King's Pictures.* At the Royal Academy, Piccadilly, W. About 500 paintings in the Royal Collection; selected from all the Palaces in which the collection is permanently kept. Includes a large number of works not normally accessible to the public. Weekdays, 10 a.m. to 7 p.m. Sundays, 2 p.m. to 7 p.m. Admission 1s. 6d. Until MAR. 16

*Anglo-French Art Centre. Exhibition of Drawings and Paintings.* At the Anglo-French Art Centre, 29, Elm Tree Road, St. John's Wood, N.W.8. (Sponsor, Anglo-French Art Centre.) Until DEC. 31

*British Road Federation's First Post-War Exhibition.* At the Empire Tea Bureau, 22, Lower Regent Street, W.1. Primarily the object of the exhibition is to assist road constructional engineers, designers and other technical experts to maintain contact with the new developments, both in this country and abroad. Its second feature will explain to the general public the existing highway conditions and the plans already made to alleviate the position, together with possible developments of the future. Weekdays, 10.30 a.m. to 7 p.m. Sundays, 2.30 p.m. to 6 p.m. (Sponsor, BRF.) Until JAN. 11

*Your New Home.* House Building Industries' Exhibition. At the Housing Centre, 13, Suffolk Street, Haymarket, S.W.1. (Sponsor, HC.) Until JAN. 12

Sir Frank Gill. *Engineering Economics.* At the Institute of Structural Engineers, 11, Upper Belgrave Street, S.W.1. 6 p.m. (Sponsor, ISE.) DEC. 19

Sir Alker Tripp. *Planning for Road Safety.* At Livingstone Hall, Broadway, Westminster, S.W.1. 5.30 p.m. (Sponsor, TPL) DEC. 19

G. A. Jellicoe. *Architecture: What it Means. How it Affects You at Home, at School, at Play.* Christmas lectures for boys and girls. At the RIBA, 66, Portland Place, W.1. 3 p.m. (Sponsor, RIBA.) DEC. 30, JAN. 1 and 3

*Welsh Industries Fair.* At the Royal Horticultural Hall, Westminster. (Sponsor, National Industrial Development Council of Wales and Monmouthshire.) JAN. 1-7

D. V. H. Smith. *District Heating.* At the Institution of Mechanical Engineers, Storey's Gate, Westminster. 6 p.m. (Sponsor, IHVE.) JAN. 8

Professor R. H. Evans. *Extensibility and Modulus of Rupture of Concrete.* At the Institution of Structural Engineers, 11, Upper Belgrave Street, S.W.1. 6 p.m. (Sponsor, ISE.) JAN. 9

Anthony Minoprio. *Criticism of Prizes Deed of Award.* At the RIBA, 66, Portland Place, W.1. 6 p.m. (Sponsor, RIBA.) JAN. 14

Professor W. G. Ho'ford. *New Towns.* At the RIBA, 66, Portland Place, W.1. 6 p.m. (Sponsor, RIBA.) JAN. 28

**MANCHESTER.** *Americana V Exhibition.* At 19, York Street, Manchester, 2. Weekdays, 10 a.m. to 5 p.m. Sundays, 10 a.m. to 12 noon. (Sponsor, Colour, Design and Style Centre of the Cotton Board.) Until DEC. 21

H. Y. Turnbull and H. Hoyle. *Unit Heaters.* At Milton Hall, Deansgate, Manchester. 7 p.m. (Sponsor, IHVE, Manchester and District Branch.) JAN. 13

**MARCH.** *Plans for an Arts Centre.* Exhibition at the Town Hall. (Sponsor, the Arts Council.) Until DEC. 31

**MILFORD HAVEN.** *The Art of the Film.* Exhibition at the Town Hall. (Sponsor, the Arts Council.) Until JAN. 13

**ST. ALBANS.** *History of the Playhouse.* Exhibition at the Public Library. (Sponsor, the Arts Council.) Until DEC. 23

**SWANSEA.** *Masterpieces from Welsh Houses.* Exhibition at the Glyn Vivian Art Gallery. (Sponsor, the Arts Council.) Until DEC. 27

**WALTHAMSTOW.** *Ideas on Design in the Home.* Exhibition at the Museum. (Sponsor, the Arts Council.) Until DEC. 21

## NEWS

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Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis. The JOURNAL's starring system is designed to give this emphasis, but without prejudice to the unstarred items which are often no less important.

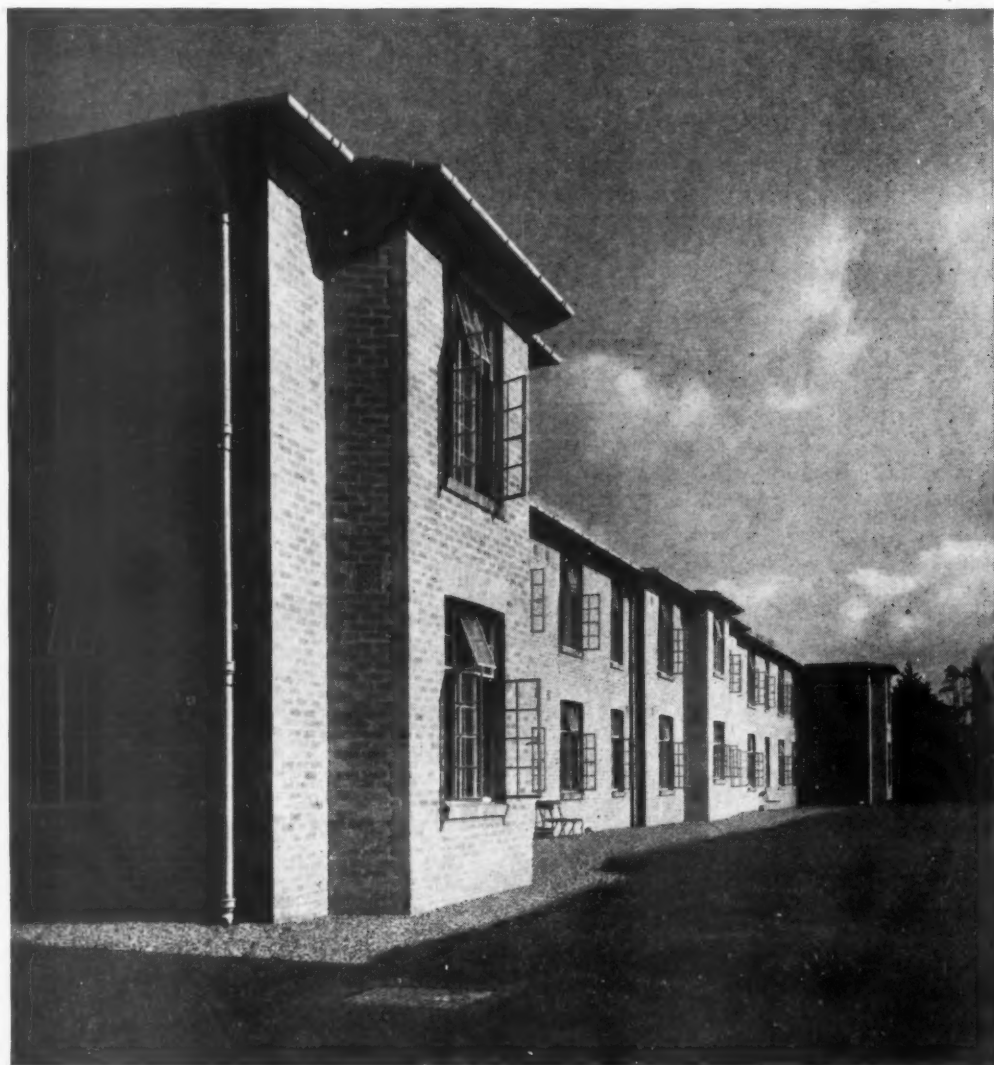
★ means spare a second for this, it will probably be worth it.

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

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

★  
**Alton Council has protested against the Lord Wandsworth Agricultural COLLEGE'S OBJECTION TO GRID being upheld by the Minister of Fuel.**

The decision of the Minister of Fuel and Power to allow, after the recent inquiry, the objection of the Lord Wandsworth Agricultural College at Long Sutton, near Alton, to the erection of an overhead electric grid which would run through the college grounds has, says *The Times*, raised a storm of protest among the local authorities. When the matter was discussed at a meeting of Alton Rural District Council, Lieutenant-Colonel L. Wrey Saville said that the decision is entirely undemocratic. The only definite reason given for the Ministry's decision to go against the considered opinion of the Hampshire County Council, the North-East Hampshire Joint Planning Committee, and the rural district councils of Alton and Hartley Wintney, and also against the considered opinions of the Central Electricity Board and the Air Ministry, is that a rich foundation is prepared to put up a sum of £5,000 to flout the opinion of these bodies. The amended line for the grid will entail the use of much more steel, cable, and labour, all of which are in short supply. He hoped the council and all other bodies concerned will fight the decision to the fullest extent of their powers. A letter from the Ministry read at the meeting stated that the Minister reached his decision after taking into account all the relevant considerations, "including the willingness of the objectors to pay a sum not exceeding £5,000 towards any extra expense incurred by the Central Electricity Board in diverting the line." The Minister, it was added, also consulted the Minister of Town and Country Planning. The council decided to bring the matter to the notice of Parliament.



East Lancashire Tuberculosis Colony, Barrowmore, near Chester  
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# HOPE'S WINDOWS

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# From AN ARCHITECT'S Commonplace Book

**GRAND BABYLON PROTOTYPE : II.** [From Boston After Bulfinch, by Walter H. Kilham (Harvard University Press).] In the upper stories (of the Tremont) were to be found 170 single and double rooms for guests, instead of the usual large rooms where several persons slept together, and, what was more, each room had a bowl and pitcher, a cake of hard yellow soap, and a whale-oil lamp. Not only did the doors to these rooms have locks, but each lock was different. No longer did the guests wash in the kitchen or barroom; there were bathing rooms in the basement supplied by rain-water cisterns. The Tremont discarded the usual hotel stable, another new idea; but perhaps its greatest innovation of all was the range of eight indoor water closets on the main floor in the rear of the lobby which supplanted the out-of-door accommodations of earlier hotels. All these comforts were available to the guest for two dollars per day, and the rate included food which he might select from a menu, instead of taking what was put before him and liking it. The Tremont's floor plan, beautifully adapted to its irregular and sloping site, was a model of simplicity and clarity, in spite of the assertion of the novelist Charles Dickens, who came to the hotel direct from an eighteen-day Atlantic crossing, that "it had more galleries, colonnades, piazzas and passages than he could remember or the reader believe" . . . Isaiah Rogers (1800-1869), the architect of the Tremont House, was the third and most famous of the notable Greek Revival group of Boston architects . . . and became known as "the father of the American hotel."

★★

*The Minister of Town and Country Planning, Mr. Lewis Silkin, M.P., has informed representatives of local authorities from the North-West of England that as a consequence of a report received from Dr. R. C. B. Jones, the noted geologist, of Wigan, it would be ILL-ADVISED TO BUILD THE PROPOSED NEW TOWN at Mobberley and Knutsford in Cheshire. Dr. Jones reported serious subsidence in the whole area.*

The Minister said he had been impressed by the criticisms of the original proposal to build a new town at Mobberley made at a previous meeting with the same local authorities, and he had accordingly amended his plan to include Knutsford, thus taking the new town farther from the built-up area of Manchester. The urgent Manchester housing problem and the urgent problem of dealing with the Manchester overspill made it essential that now that the Knutsford-Mobberley scheme appeared to be ruled out, no time should be lost in considering alternative sites in co-operation with the local authorities. One or more new towns would no doubt be required, as well as the expansion of existing towns. Meanwhile borings would be carried out to ascertain the extent of the Cheshire subsidence area in co-operation with the local authorities concerned. The following local authorities were represented at the meeting, which took place at the Ministry of Town and Country Planning: Manchester City Corporation, Lancashire and Cheshire County Councils, Salford County Borough, Stretford Municipal Borough, Knutsford Rural District Council, Bucklow Rural District Council, and Wilmslow Urban District Council.

*Mr. E. W. Garrett: The impression gained from the Minister of Health's speech is that the whole of the industry is tainted by the BLACK MARKET.*

Speaking at the annual luncheon of the London Master Builders' Association held in

London, Mr. E. W. Garrett, the president, said: The impression gained from the Minister of Health's speech is that the whole industry is tainted by the black market. Nobody knows better than Mr. Bevan how unfair that is. An attack on the whole industry for the actions of a small section is both unfair and discouraging to the majority who are playing their full part in the provision of houses. Mr. George Tomlinson, Minister of Works, said that the difficulties they had had to face in the past 12 months had been largely due to shortages, and neither the Government nor the builders had control over that. Many of the difficulties were being overcome.

## We regret to record the DEATH OF SIR JOHN OAKLEY.

Sir John Hubert Oakley, G.B.E., President of the Royal Institution of Chartered Surveyors in its jubilee year, died in London. As senior partner of the firm of Daniel Smith, Oakley and Garrard, he was one of the most eminent of practising surveyors and acted as a member of many important Royal Commissions and committees.

*The Prime Minister stated, in a Parliamentary written answer that he is in communication with the Dean of Westminster with a view to setting up a tablet in memory of the late PRESIDENT ROOSEVELT in a suitable position in the Abbey.*

Mr. Janner had asked whether, in connection with the rebuilding of the House of Commons, consideration could be given to installing some plaque in memory of President Roosevelt to commemorate the deep regard which members of the British Parliament had for him. Mr. Attlee replied that successive Governments had for many years followed the general rule that no memorial should be erected in the Palace of Westminster to any individual within 10 years of his decease except in accordance with the resolution of both Houses of Parliament. Even if such a resolution were passed, having regard to the time necessary to complete the new building scheme, it would not be possible to show the tablet for some years. He then made the announcement given above.



Part of the Roads Exhibition, organized by the British Road Federation now open at the Tea Centre in Regent Street, showing the development of the road in Britain.





## *No Architecture*

Not a building in sight, except that little shack on the right. This refreshing scene, a Tyrolean landscape, symbolizes a few days' rest from the toil and moil of

the architectural grind, and carries with it Christmas greetings to all our readers. The photograph was taken by Eric S. de Maré, A.R.I.B.A.



★★

*The Central Landowners' Association has launched a COMPETITION for the Planning of an Extension of a Village.*

Four villages have been selected for the purposes of the competition, namely, Godstone (Surrey), Shipton-under-Wychwood (Oxon.), Condover (Salop.), and Helmsley (Yorks.). Designs are to be related to any one, but not more than one, of these villages, to be selected by the competitor himself. It is to be assumed that the amount of additional accommodation required in each village is not less than 50 and not more than 150 houses. Within these limits, the actual numbers of houses to be provided is left to the competitor's own discretion. The Assessors are Professor Sir Patrick Abercrombie, F.R.I.B.A., P.P.T.P.I.; George Langley-Taylor, F.R.I.B.A., M.T.P.I., F.S.I., F.L.A.S.; and Thomas Rayson, F.S.A., F.R.I.B.A. First, second and third main prizes of £250, £200 and £150 will be awarded to the authors of the three best designs submitted, irrespective of the villages to which they relate, and in the case of each village not represented in the main prize list, the author of the best design submitted will be awarded a consolation prize of £100. The number of these consolation prizes will thus be not less than one and not more than three. A competitor must be either a qualified member of one or more of the following bodies, or a person acting in conjunction with such a qualified person, provided that all drawings submitted shall be drawn by the qualified person:—RIBA, Royal Institution of Chartered Surveyors, Land Agents' Society, Town Planning Institute. Applications for detailed particulars of the Competition, accompanied by a fee of one guinea, to Mr. G. Langley-Taylor, F.R.I.B.A., M.T.P.I., F.S.I., F.L.A.S., 1, Hare Court, Temple, E.C.4. Closing date, June 30, 1947.

★

*The Minister of Town and Country Planning, Mr. Lewis Silkin, M.P., has made an Order establishing a Development Corporation to build the new town at STEVENAGE.*

This is the first of the Development Corporations to be set up under the New Towns Act, 1946. The Minister has appointed the following as members of the Corporation:—Clough Williams-Ellis, M.C., J.P., A.R.I.B.A. (Chairman), Dr. Monica Felton, PH.D. (Vice Chairman), J. D. Campbell Allen, B.A., Hinley Atkinson, Councillor Frank Corbett, J.P., Alderman W. J. Grimshaw, J.P., Councillor P. T. Ireton, J.P., Mrs. Elizabeth McAllister, M.A.

★

*The death is announced in Chicago of Mr. L. MOHOLY-NAGY.*

Mr. Laszlo Moholy-Nagy, one of Professor Walter Gropius's most able coadjutors at the original Bauhaus at Weimar, has died in Chicago, where he had set up a school of design, originally called the Bauhaus and later the Institute of Design, in 1938. Laszlo Moholy-Nagy was born at Borsod, Hungary, in 1895. After the 1914-18 war he went to Berlin, and in 1923 he was appointed professor at the Bauhaus, founded by Professor Walter Gropius at Weimar, and afterwards removed to Dessau. Here Moholy-Nagy remained until 1928, acting as co-editor with Gropius of the Bauhaus publications. In 1928 Gropius gave up the Bauhaus and returned to his practice as an architect in Berlin. A little later he came under Nazi displeasure and sought refuge in England, whither in 1933 Moholy-Nagy followed him.

## ARCHITECTS AND FURNITURE

ONE of the problems of the present time is that everyone is tending to find his own job rather more than a full time occupation. Consequently there is a danger of a narrowing of outlook, over-specialization, and a lack of general cultural education. In the case of architects both the stress of grappling with immediate problems and the loss of background, due to lack of time to study developments in associated spheres, are likely to be greater than in most other professions. But unless the architect can keep a wide knowledge and appreciation of the allied arts he is unlikely to produce the best results in terms of an æsthetic interpretation of the age in which he lives. Unfortunately most architects are so busy that just now they find it extremely difficult even to keep up with the immediate technical developments directly connected with their work and therefore are liable to miss important items in other fields.

It is with these ideas in mind that we refer to a recent report on Furniture\* because clearly here is a subject on which the architect must keep abreast of events since his interior designs are so intimately concerned with the furniture which will be seen against them and which indeed should be considered not as an afterthought but as part and parcel of the whole design. Two chapters of this long report are of special interest and importance to architects. They deal with Design and Education. They are remarkable in that the Committee recognizes with brutal frankness the low level of design in the furniture trade and even more so in that a very clear statement is given of the remedies which it is considered are essential. The Committee recognizes that to achieve results *all* sections of the trade including craftsmen and managers, and also salesmen, must appreciate good design and they place great stress upon the need for training methods to combine the teaching of a high degree of technical ability with a stimulation of the imagination. The report suggests that the way to achieve this is to include painting and sculpture in the training courses. The intention clearly is to have something rather similar in spirit to the Bauhaus or the Chicago School of Design, to both of which reference is made.

In the detailed recommendations of the Committee on the subject of education there is much to interest architects. There are very close parallels to the developments now taking place in architectural teaching which are interesting and significant. Among these is the recognition of a need to study consumer needs more closely because of the lack of direct contact between designer and user. The need to consider all possible means of fulfilling requirements whether or not they fit in with traditional methods is mentioned and it is encouraging to find that the Committee, which contains a number of furniture manufacturers, is broadminded enough to suggest that any material, not merely wood, should be used

\* Report of the Board of Trade Working Party on Furniture. (HM Stationery Office 3s. 6d.)

if it can help to provide the right answer to the consumers' true needs.

There are several references to architects including an analysis of why in recent years the architect has been regarded with some antagonism by the furniture industry. This should cause some self examination, for architects must continue to be keenly interested in the production of furniture if they are to regain the sense of unity which existed between the building and its furniture in the days of Adam and Chippendale.

The essential recommendations of this part of the report are for the setting up of a Design Centre and of a National College, the purpose of the latter being to provide for advanced training of all kinds beyond the possibilities of the ordinary training school. There are a number of other statements and suggestions in the report which will also appeal to architects such as the stressing of the importance of well-designed buildings and furnishings for all schools as being one means of training the public to a realization of the qualities of good design generally. We commend these two chapters as being particularly worth studying.



*The Architects' Journal*

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T O P I C S

#### BRITISH COUNCIL

Being Superior about the British Council is by now a well-established parlour game in the more intellectual circles, and there are occasions when the Council, with the bland insensitivity of an Edwardian dowager, walks into it with both feet, and gallantly plods on. Here is the opening sentence from its annual report for 1945-46, just out: "The end of the war against Japan came on the 22nd

August, 1945, some weeks after the tenth anniversary of the Council's official inauguration in July, 1935." Does that strike a note of other-worldliness, or is it just a buzzing noise sounding in the jaundiced ear of a cynical hack?

The trouble that the British Council has inevitably to meet, to be fair to it, arises because it is, and will always be, expected to be better than it is. It is useless for it to proclaim its successes. They will only provide critics with fresh vantage points from which to see new fields of activity. When the report records that three articles by Sir Charles Reilly in the Council's overseas magazine *Britain Today* on *Rebuilding the Towns* were quoted in several countries, the planner is certain to mutter: "Did you follow it up? What else have you done about planning, and architecture . . . ?" and so on. Then he scrambles hastily through the rest of the report and finds that an exhibition on the growth of Bath went to Ethiopia and to Moscow [an interesting pair?] and some town planning photographs were sent to Buenos Ayres. At once he cries to heaven that Prague and Zurich might have liked something too, and what about Rome and Quito and Bangkok?

Finally, he looks down the list of distinguished Britons sent abroad under

the auspices of the Council, and finds not even one architect among them. It is at this point that he sits down and writes to *The Times* or his M.P., or both. Yet, unaided, could he have organised even a small display of popular views of London in a shop window in Calais? It is very doubtful. Thus are the worthy flayed by thongs of their own weaving.

#### PUBLICATIONS RECEIVED

Leafing doggedly through other publications received I find that the Cambridge Preservation Society is needing funds, but that no major campaign is on hand to save a beauty spot from rapacious landlords [who usually turn out to be one of the university's own colleges]. This year's report, therefore, is a quiet document, concerned mainly with homely details from its own properties. Bourn Mill we read is to be repainted, and a clinker road has been laid to the piggeries at Cromelea Farm.

M. K. R.'s Weekly—do you follow me, Doctor?—covers current exhibitions in the USA [including one from ex-architect New York draughtsman Steinberg], and discusses *Fortune's* estimate of last year's sales of American art—which apparently reached six million dollars. From Liverpool comes the prospectus of the School of Architecture—no students' drawing and rather too many posed photographs—and from Holloway the Jubilee prospectus of the Northern Polytechnic.

From the British Chemical Industry an illustrated catalogue of its *Portraits of Industry* Exhibition with characteristic jobs by William Dring, Edmund Wadsworth and Doris Zinkeisen. From Mrs. Cecil Chesterton the 18th report of Cecil Houses Ltd., founded by her for homeless women and children; brisk, practical, good-humoured and very moving, this is an admirable report of a still more admirable venture which is urgently in need of funds to carry on its work.

From the DIA come three excellent pamphlets at 6d. each by John Grey [*Fitness for What Purpose?*], Herbert Read [*Future of Industrial Design*], and Anthony Bertram [*The Enemies of Design*]. Mr. Bertram—who is the most readable of these three musketeers

defending design—names the enemies as Indifference, Unnecessary Novelty, Borrowed Glory, Mass Production, Artcraftiness and Fashion Snobbery. He is also brave enough to include among the designer's enemies many of its friends, those who through excess of logic try to make man live by H. & C. alone or who mistake their personal needs for those of other people. Pure functionalism is taking some hard knocks these days, even from its former friends.

#### BLACK MAGIC

The drawing below is an impression from Hilton Wright's indefatigably dancing pen of London's 1951 Exhibition as dreamed up by Misha Black. Writing in *The Ambassador*—the glossy technicoloured export journal of the textile industry, Mr. Black discusses the problems of international exhibitions in general and puts forward a few ideas on size, siting and layout for this particular case.

Size, as he points out, is no longer a touchstone of success—and anyway

cannot be achieved in London. Plumping for the South Bank as a site—for economic as well as æsthetic reasons—he imagines a composition in space, a fabulous steel and glass mountain topped with a helicopter tower, which contains suspended within its ribs hundreds of pavilions and attractions linked by ramps and winding waterways.

Such Space-Composition, he suggests, not only solves the problem of accommodation on a comparatively cramped site—but is itself a Principal Feature—that other headache of exhibition organizers. Any more space needed could be found by floating islands in the Thames or by bridging over the buildings of South London into Battersea Park.

As usual Mr. Black's ideas are as audacious as his sense of showmanship. Let's hope the Ramsden Committee takes good note of this new issue of Black Magic.

ASTRAGAL



## LETTERS

R. Petrie Baker

Andrew Carden, A.R.I.B.A.

### Registration

SIR,—I fully concur with the views expressed by Messrs. Lloyd and Myers, that although ex-servicemen may be out of date so far as architectural procedure and building practice is concerned, many who served in a specialized branch and particularly those who served in Royal Engineer Services have gained probably a far wider knowledge and experience than if they had remained in civilian practice. In many cases they have been engaged as engineers and clerks of works, thus gaining a necessary practical and intimate knowledge of the problems which occur on a job, a knowledge which is seldom obtained, in the same length of time, by the average architectural assistant in a civilian capacity.

It should be mentioned that this branch of the services covers practically every field of building and engineering constructional work, and the personnel were drawn from men previously engaged in such works.

It certainly would seem that a more sympathetic view should be taken with men, who through no fault of their own, have been prevented from becoming qualified.

Many of them, as stated by Messrs. Lloyd and Myers, are now about the age of thirty, mostly with family responsibilities and possibly with long journeys to and from their place of employment, after which they are in no proper state of mental alertness to spend the remaining two or three hours of the evening in study to prepare themselves for an examination, which does not involve assimilating knowledge of any immediate or practical use.

I think it will be agreed that the average well trained architectural assistant in the category under consideration, will be of more value and much more qualified eventually, if allowed, without the worry of examinations, to concentrate fully on his job and the real task of earning his living.

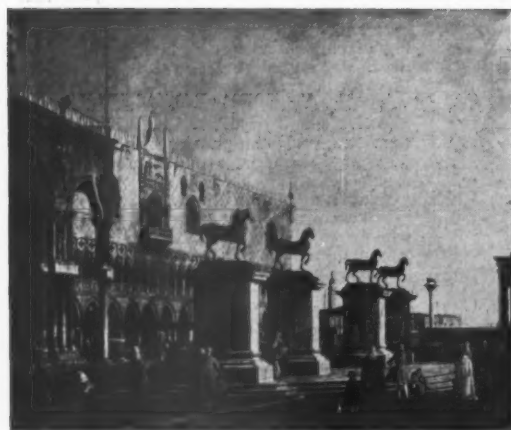
It would appear that under the present system, many well qualified men, other than



Mr. Misha Black's conception of the 1951 Exhibition on the South Bank, on which Astragal comments above.



# PICTURES FROM THE ROYAL COLLECTION



Two of the King's pictures, which have architectural interest, from the exhibition now open at Burlington House. Above, *Landscape with a Monument to Newton*, by Marco Ricci (1676-1729), from Buckingham Palace; the attributes of astronomy and mathematics and the likeness of the figure to Newton's statue on his tomb by Rysbrack in Westminster Abbey lead to the conclusion that this is a fantasy in honour of the astronomer, who died in 1727; it was bought by George III. Left, *the Horses of St. Marks*, a *Capriccio* by Canaletto, from Windsor Castle; the Horses are here imagined to be removed from their position on the façade of the church and set on four pedestals in front of it. The pictures are reproduced by gracious permission of H.M. The King.

those with a purely theoretical knowledge, will be lost to the profession.  
Burgess Hill

R. PETRIE BAKER

## Science and the Architect

SIR,—Professor Bernal's generalizations about the functions of architects are strangely pontifical and are likely after a little further repetition to produce nausea, a violent and unfortunate reaction against science and scientists in general.

I am *not* writing to decry scientists or the "scientific approach," but to state clearly that in architecture as in science, accumulating data and holding committees, however learned, are useful to test or stimulate

creative thought, but are no substitute for the creator.

The following extract from John R. Baker's book, *The Scientific Life*, illustrates my meaning. "Whenever one is able to look into the mind of a discoverer at the moment of discovery, one sees the finding out of unknown facts and the origin of great generalizations are not crudely mechanical processes, to be achieved by the efficient sorting of the cards in a card index, or the punctual study of pre-publication abstracts of other people's work. Ideas come in the most unpredictable way and seldom when they are being sought."

As for the Professor's linking of science with the pseudo-science of economics,

nothing but harm can come to science from relationship, even platonic, with such an unstable and elastic a companion.

Let us have more scientific data, in a practical and accessible form, and by all means let there be co-operation and easy access, as there frequently has been in the past, between architect and scientist. But remember that no single original work of creative art can exist without its individual creator, however many others may have assisted in its execution.

To my mind, Kekule's dictum, "Let us dream, gentlemen, then perhaps we shall find truth," is peculiarly applicable to our task to-day.

Danbury

ANDREW CARDEN



**PHYSICAL PLANNING SUPPLEMENT****GLOUCESTERSHIRE****A PHYSICAL, SOCIAL AND ECONOMIC SURVEY, AND PLAN**

The results of the Physical, Social and Economic Survey of Gloucestershire by Gordon E. Payne, Planning Consultant (formerly County Planning Officer), have recently been published. This Survey is comprehensive and reveals much information of value to planners dealing with rural and regional problems. A review of some of the more important results obtained, which are of general interest, is given below, together with a summary of the conclusions and recommendations in the proposed Outline Plan which has resulted from the Survey. The comprehensive nature of the work has necessitated the selection of only a few of the many valuable sections and maps contained in the Survey. Above, a typical view of the Cotswold Country—Coln Valley, Calcot—which is included under the Landscape Section of the Survey as Agricultural Land with Recreational value.

Gloucestershire is a highly interesting and diversified county; it is, in fact, almost a country within a country. The area, including the County Boroughs of Bristol and Gloucester, is 804,638 acres of land and inland water. Gloucestershire occupies a unique position among English counties because, whilst it is primarily a Midland county, its tidal water gives it many advantages of a maritime county. In general terms the county falls into three main divisions—hill, forest and vale—each division lying from north-east to south-west, parallel to the River Severn. Many points of interest have been revealed by the Survey recently published.

**land drainage**

A very close relationship exists between land drainage and interim development permitted under Planning Powers and agriculture. Planning Authorities permit development (they are not empowered to refuse it for land drainage reasons) which may cause the flooding of the very land which the Catchment Board is required to make dry. The majority of the trouble, however, is due to development which existed many score of years before control. Lack of decision in cases where legislation fails to cover certain aspects is dangerous. For example, where a housing estate is erected on the up-stream side of land continuing to be used for

agriculture, there is no power to require a contribution by the builder to the cost of improving the capacity of the stream which will carry the surface water from paved areas. In numerous cases, the rapid run-off of surface water results in the flooding of fields which previously were dry. Furthermore, it is not obligatory upon a Planning Authority to notify the Land Drainage Authority of such proposed development.

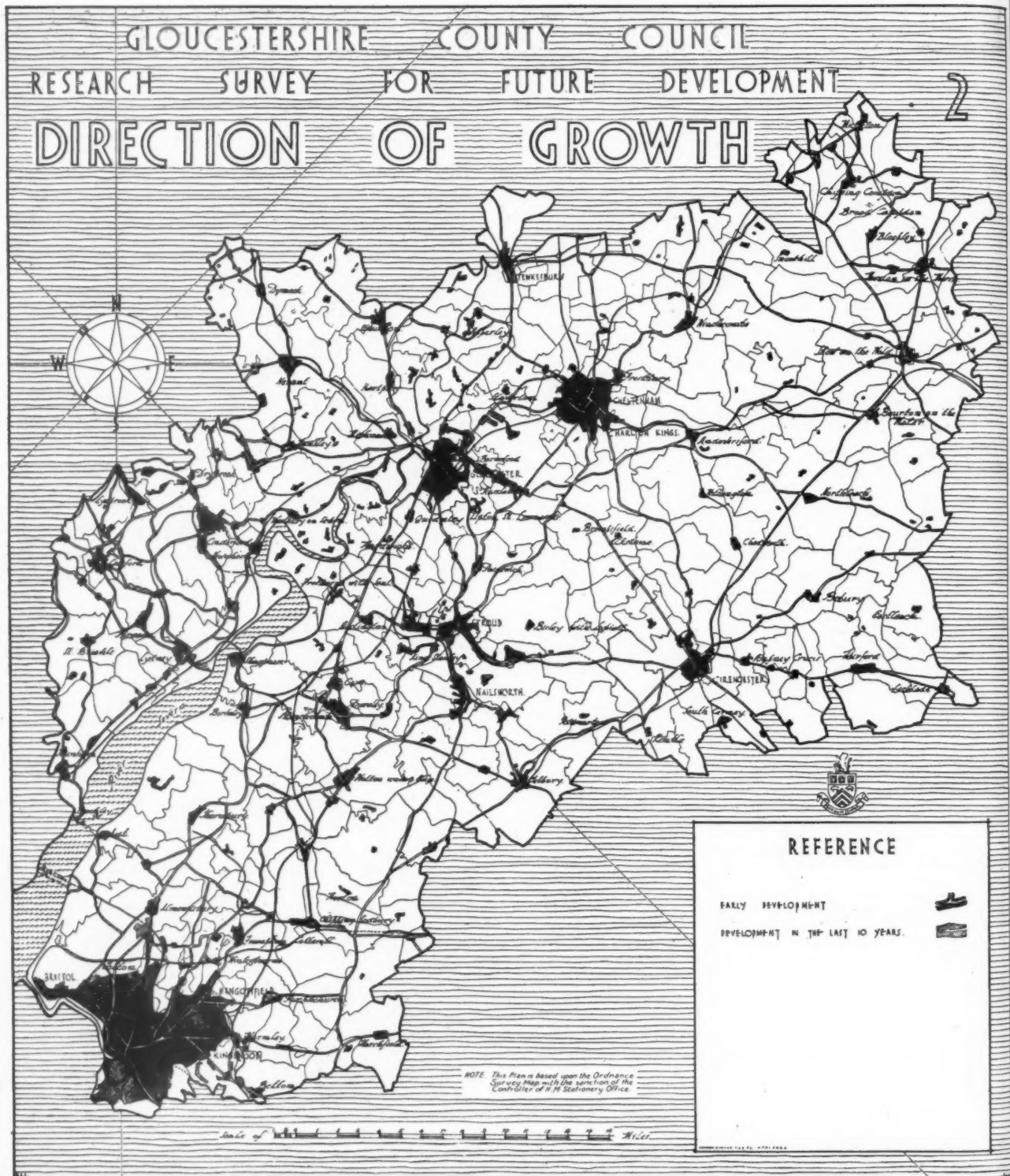
Planning Authorities can greatly assist Catchment Boards in their work by reserving access to and along both banks of a river, for the use of dredging and other machinery for river maintenance and improvement. Access is particularly desirable where road bridges span the river. Space along the banks is also required for the deposit of dredged soil. Other important questions dealt with under Land Drainage in the Survey include the pollution of rivers and streams, the legislation available and the possibilities of overcoming the many difficulties.

**health and soils**

Generally speaking, soils may be classified as follows, in the order of their healthiness: gravel, sand, sandstone, chalk, rocks (granite, clayslate, limestone), loam and stiff clay, and finally alluvial land (low lying) made solid. The County Medical Officer has expressed the view that in a really healthy site, ground water should not rise to within less than 10 feet of the ground surface; it is, however, an ideal which it may not always be possible to attain, because of strong and important influences on location. It is desirable that the following conditions should exist in the selection of a site for development: a dry, fairly open and sunny situation; a pure, dry and porous soil; an elevated position on a gentle slope favouring natural drainage both on the surface and in the subsoil. Valleys lying in the direction of the prevalent winds are drier and therefore healthier than those lying in other directions.

**industry**

Based upon the experience of the Development Association



### DIRECTION OF GROWTH MAP

of the Royal Forest of Dean (for which Association the author of the Gloucestershire Survey acted as Surveyor), some valuable statements on industrial demands are given. One of the first questions asked by interested persons relates to the amount and type of labour available. This question is a most difficult one as the availability of labour and its sex composition varies from day to day, and it does not follow that even if a sufficient quantity and diversity of labour were

available at the date of the decision to establish an industry, that a similar quantity would be available when the factory is ready to undertake production. In nearly every case it was found that the number of workers available at such a time was less than on the original statement. Industrialists realize this fluidity and ask for a labour market of more than 100 per cent. above their requirements. The effect of this in the less densely populated parts has been to reduce the size of an industry entering a given area, frequently resulting in a certain amount of unemployment. One method of

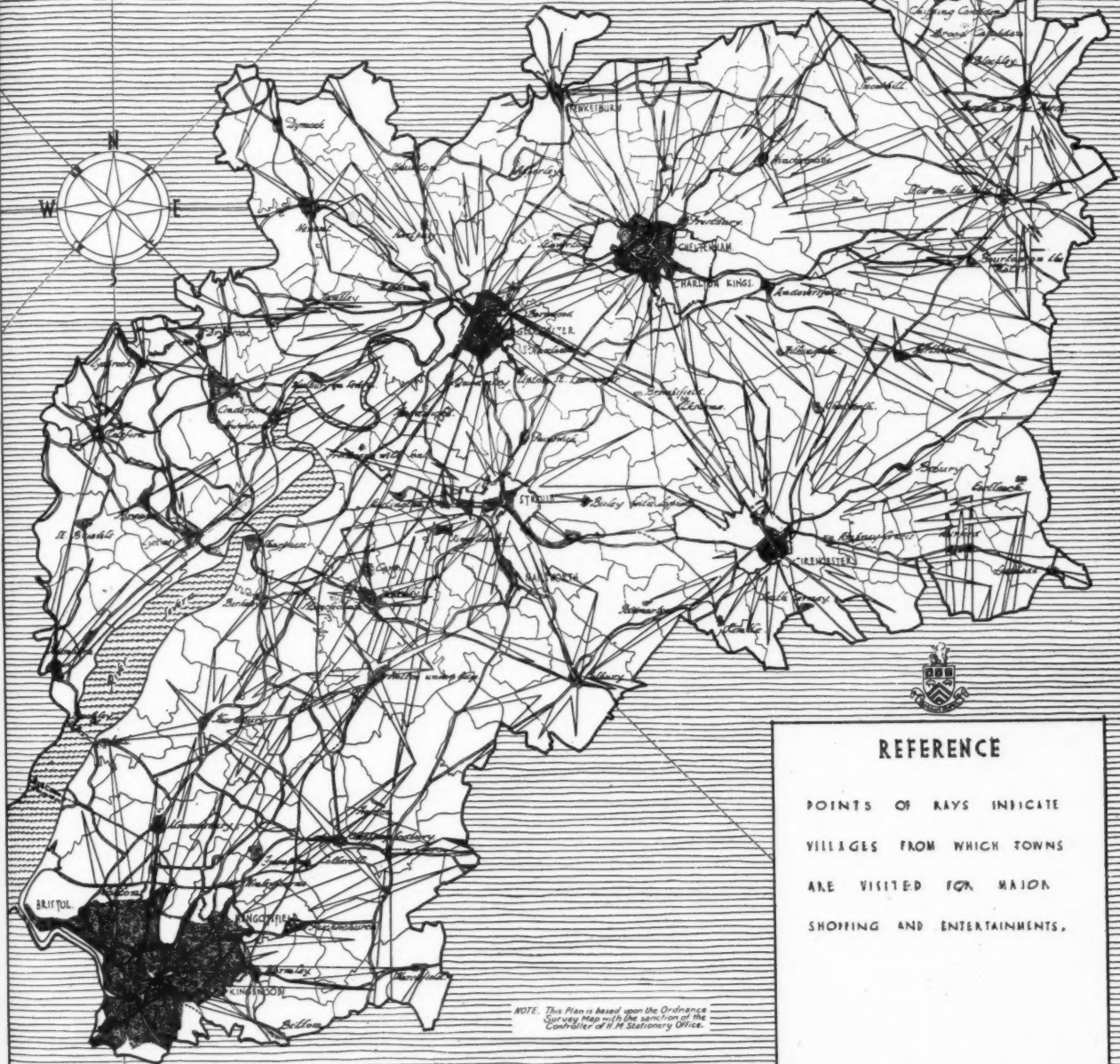


# GLOUCESTERSHIRE COUNTY COUNCIL

## RESEARCH SURVEY FOR FUTURE DEVELOPMENT

### TOWN INFLUENCES

16



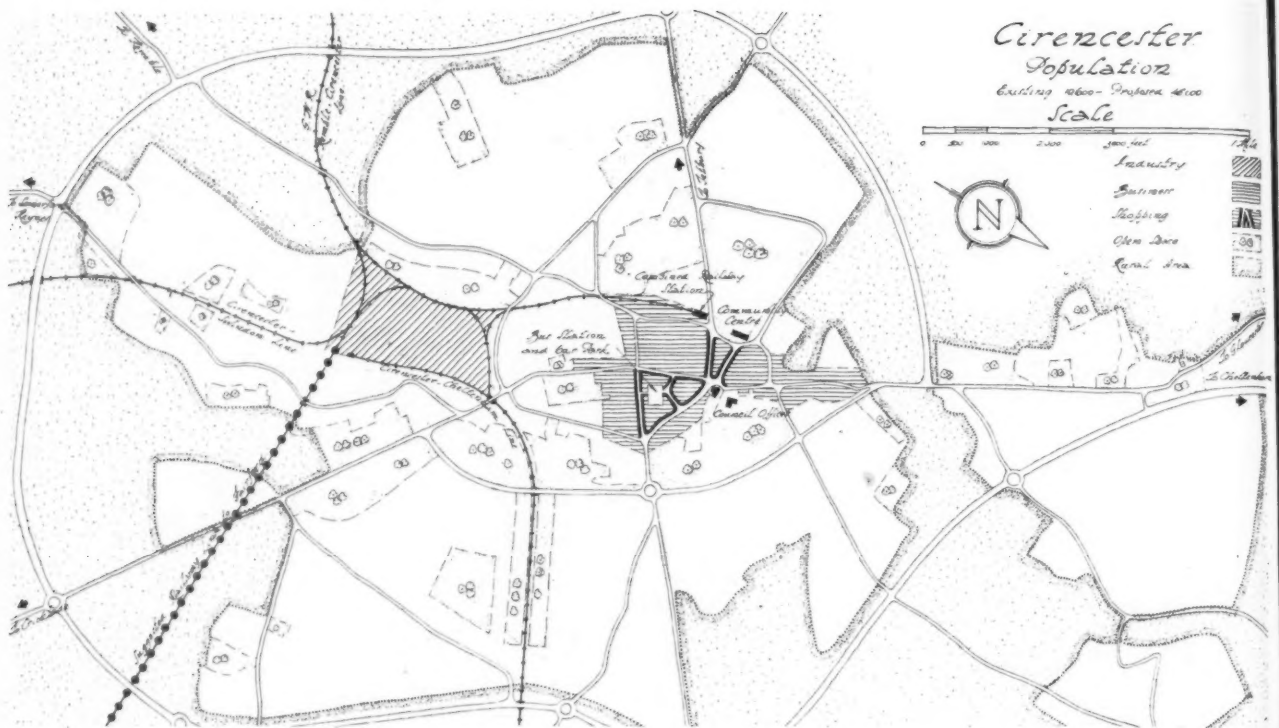
### TOWN INFLUENCES

overcoming this position is for the necessary workers to be selected in the early stages, and some allocated to temporary posts until the factory is ready for production, and others to training schools—some could also be engaged on the construction of the factory buildings.

The presence of male labour also indicates an availability of female labour, but the proportion does not approach equality because there are approximately  $2\frac{1}{2}$  times more males available than females. Furthermore, whereas the ages of males in industry range from 14 to 65 years, the female range is limited to approximately 14 to 30 years. The average

proportion is therefore  $3\frac{1}{2}$  males to 1 female available for employment. Industry in a given area should provide employment in appropriate proportions for both sexes. It would be unwise to ignore the probability of a reduction in the proportion consequent upon the substantial introduction of female labour into factories during the war.

Recent developments in Gloucestershire indicate that intelligent unskilled labour can, within a few months, become skilled. It should, however, be recognized that the creation



of a pool of skilled labour is an attraction to other industries closely related in methods of operation to the original industry.

#### sociological conditions

The results of the survey of Sociological Conditions in Gloucestershire are valuable. Sixty-five per cent. desired to work in a town because of the advantages of better prospects, more work available, higher wages and desire for town life; and 35 per cent. because of the disadvantages of life in the country (lack of an alternative to local industry, dislike of agriculture, etc.). In other words it appeared that the advantages which the town can offer are more important factors than the present disadvantages of the countryside in influencing the decisions of young people who are considering where their place of work shall be.

The investigation into Shopping and Entertainments in village life showed that 4 out of every 5 parishes were satisfied with the existing shopping facilities. Entertainment facilities were not considered so satisfactory, although 69 per cent. of the parishes considered that the existing local arrangements were satisfactory. The chief demands were for a village hall or a travelling cinema show at least once a week. 63 per cent. of the parishes were satisfied with the bus service to their village.

It was found that 81 per cent. of the farmers come from farmers' families, and 80 per cent. of those in the Vale are working at or within 15 miles of the place in which they were born. In the Cotswolds, there are many more farmers who are *foreigners*—four times as many as those who came into the Vale from outside.

#### conclusions and recommendations

1. **Geology:** Recommendations under this heading deal with the use of local building materials, the employment problems caused by the exhaustion and opening-up of coal measures, and the avoidance of development on valuable quarrying area.

2. **Land Drainage:** The necessity for compulsory notification of proposals between Planning and Land Drainage Authorities. All large scale development should be planned within one watershed.

3. **Reservations:** Lands unfit for human habitation on

The Gloucestershire Survey and Plan includes a number of Outline Proposals for various towns and villages. Cirencester is illustrated as a typical example.

#### CIRENCESTER

account of the sub-soil water levels are listed; also areas reserved for their special landscape beauty and the kind of control proposed. Major open spaces, viewpoints, areas of spectacular local beauty and nature reserves are also indicated.

4. **Agriculture and Woodlands:** Recommendations for the kind of development which may be permitted under the various categories of lands which were surveyed in the eight groups classified by Sir George Stapledon.

5. **Industry:** The proposals for industry show that a better balance and greater diversity of the kind of employment, is required in the County.

6. **Areas for Development:** A Rural Zone is proposed within which area buildings connected with rural occupations only may be built, and others only after public advertisement and the consideration of objections by the Responsible Authority. An Agricultural Zone, similar to the Rural Zone, but in which special consideration will be necessary before granting permission to build dwelling houses with small curtilages, institutions, etc. Certain towns are listed for development to improve rural conditions in some cases, and because of the natural trend of development in others.

7. **Improvements in Parishes:** Parishes requiring improvements such as improved water supply or village halls, are listed in detail.

8. **Electricity:** The disparity in charges as between urban and rural areas should be eliminated.

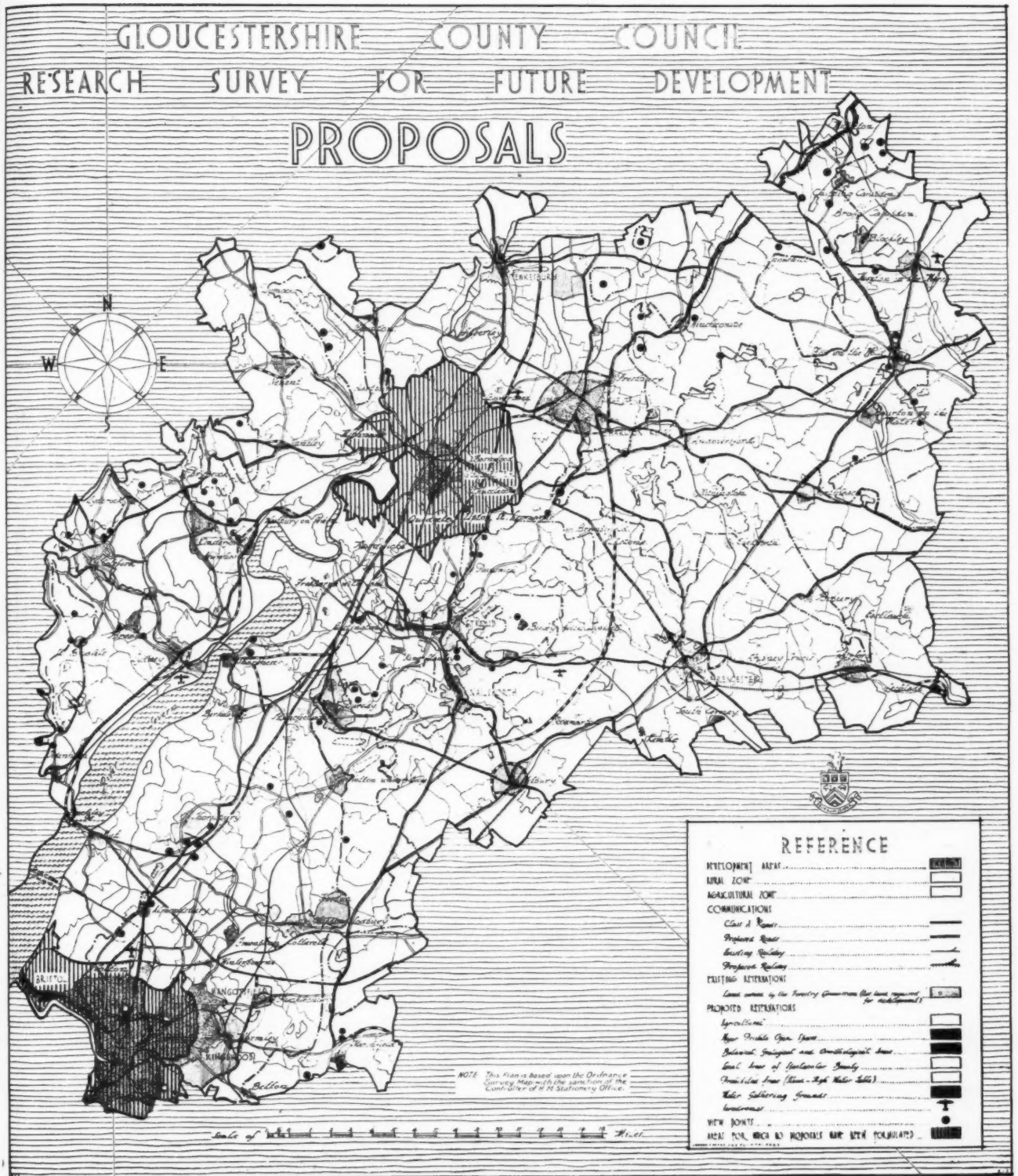
9. **Water Supply:** The formation of one or more Joint Water Boards is advocated, and the harnessing of good water running to waste.

10. **Sewerage:** Improvement of sewage works which are overloaded or pollute streams. The provision of a public system of sewerage to human settlements too compact to dispose of sewage by means of septic tanks.

11. **Accessibility:** Improved passenger services are required for the Forest of Dean, and better bus services particularly in the Northern Cotswolds.

12. **Ports and Docks:** Improvements are suggested for





## COUNTY PROPOSALS

The proposals for the future planning of Gloucestershire are based upon a very comprehensive survey, and include the whole County apart from the Bristol and Gloucester areas.

Sharpness, such as housing, public water supply, etc.

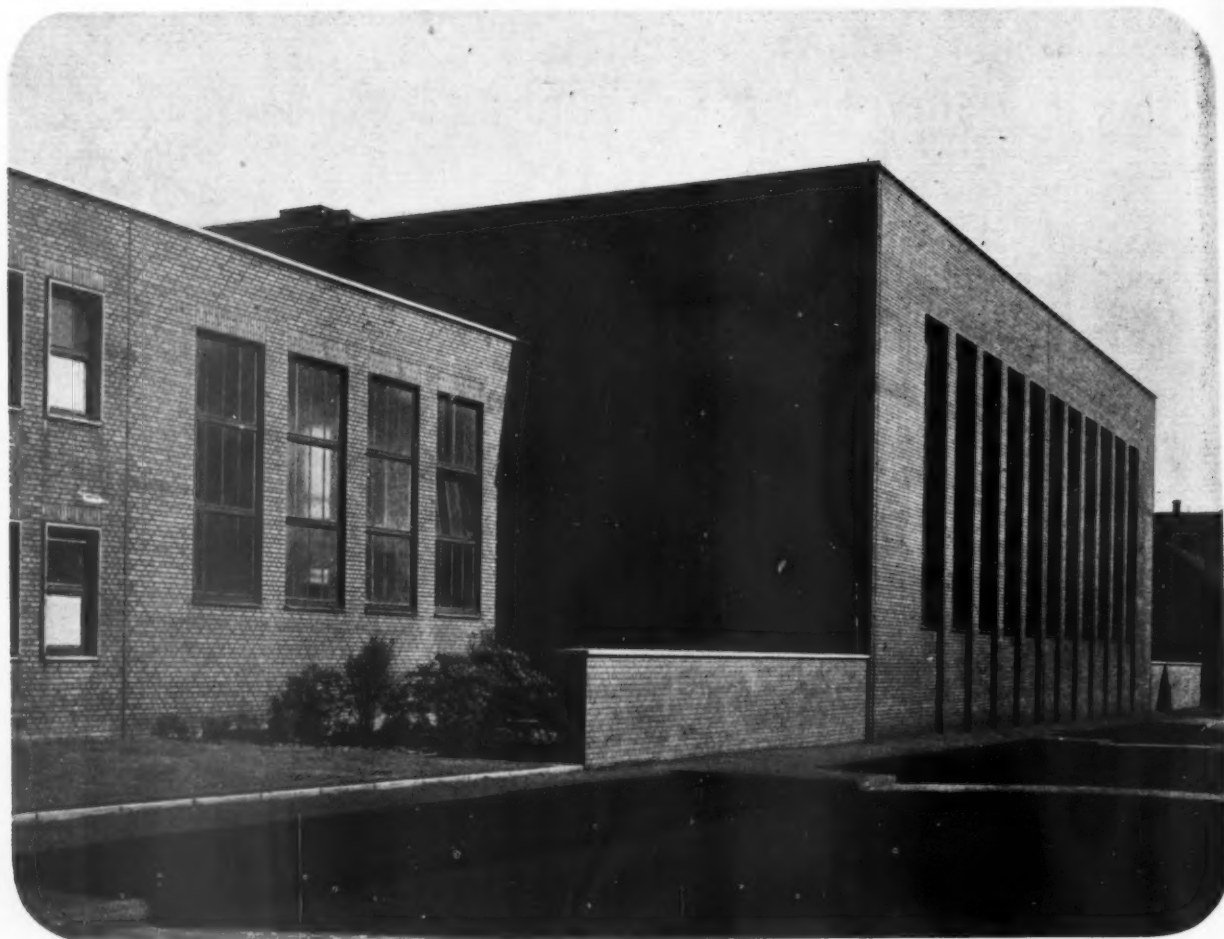
13. Severn Barrage: Advocates this project for the generation of electricity, and the estuary as a terminal point for trans-Atlantic flying boats.

14. Canals: The Gloucester and Sharpness Ship Canal is the only one for which a good future can be seen.

15. Highways: A motorway north to south through the County, and also east to west linking with the Severn Road Bridge. The provision of by-passes for certain small towns. Redevelopment to be restricted on these motor roads.

16. Railways: Various improvements in lines are listed, and particular mention is made of the necessity to eliminate the level crossings in Gloucester.

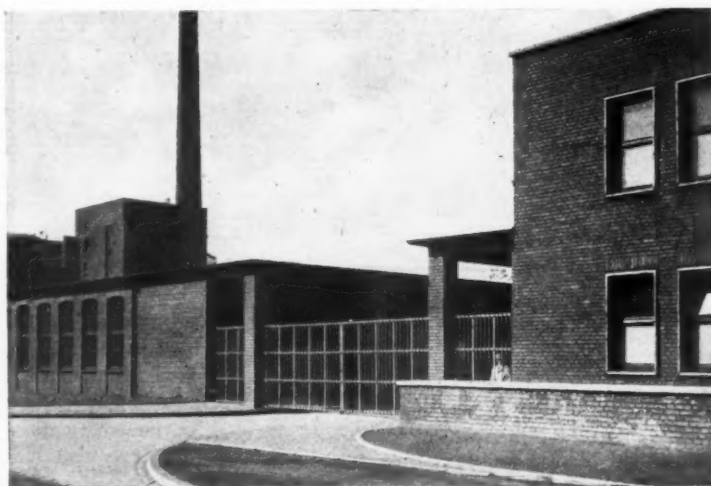
17. Aerodromes: Five sites for small aerodromes for local traffic serving the principal towns or groups of population in the County, and air car parks in each centre of development.



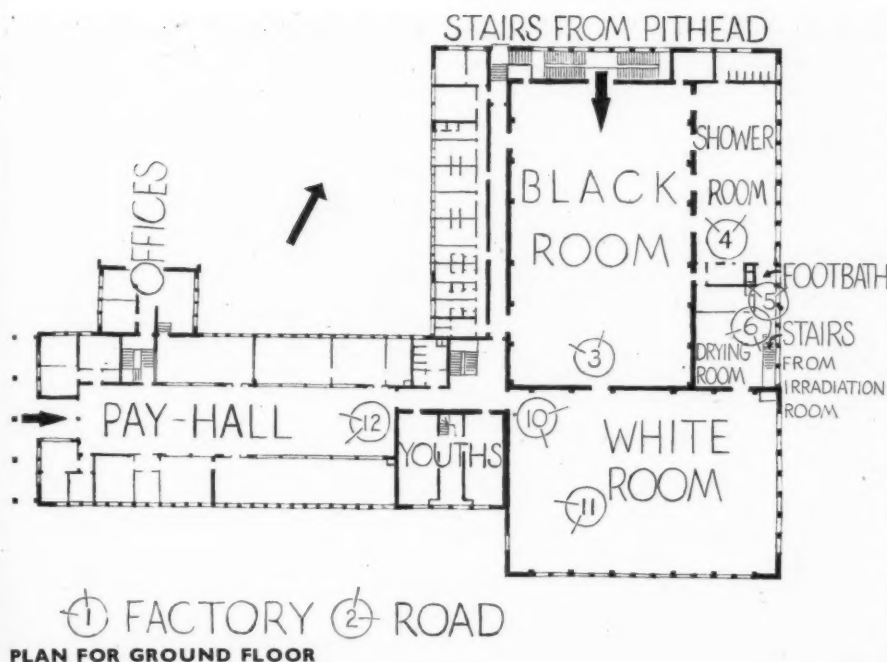
# PITHEAD BATHS

AT GELSENKIRCHEN  
ARCHITECT : VAETH

These Pithead Baths are a good example of the best German wartime industrial architecture. They were built in 1943 by the Staff Architect to the Mannersmann Tube Works. There is nothing particularly original about them, the various features and layout being similar to our own establishments of this kind. Two points are, however, of interest. One is that the Nazi political stylization of architecture is least apparent in industrial building, and the other is their standard of building, which to our ideas of wartime building is astonishingly lavish. Accommodation was provided for some 2,700 workers at a cost of RM 2.4 millions. The architect states that reinforced concrete frame was used because of shortage of steel and concrete-slab roofs to save timber; also that massive reinforced structure was needed to avoid settlements due to underground workings. But the tiling of entire walls 30 ft. high in the



Top, exterior showing the room for youths and the White Room from the factory road (view 2 in plan). Below, the entrance (view 1).



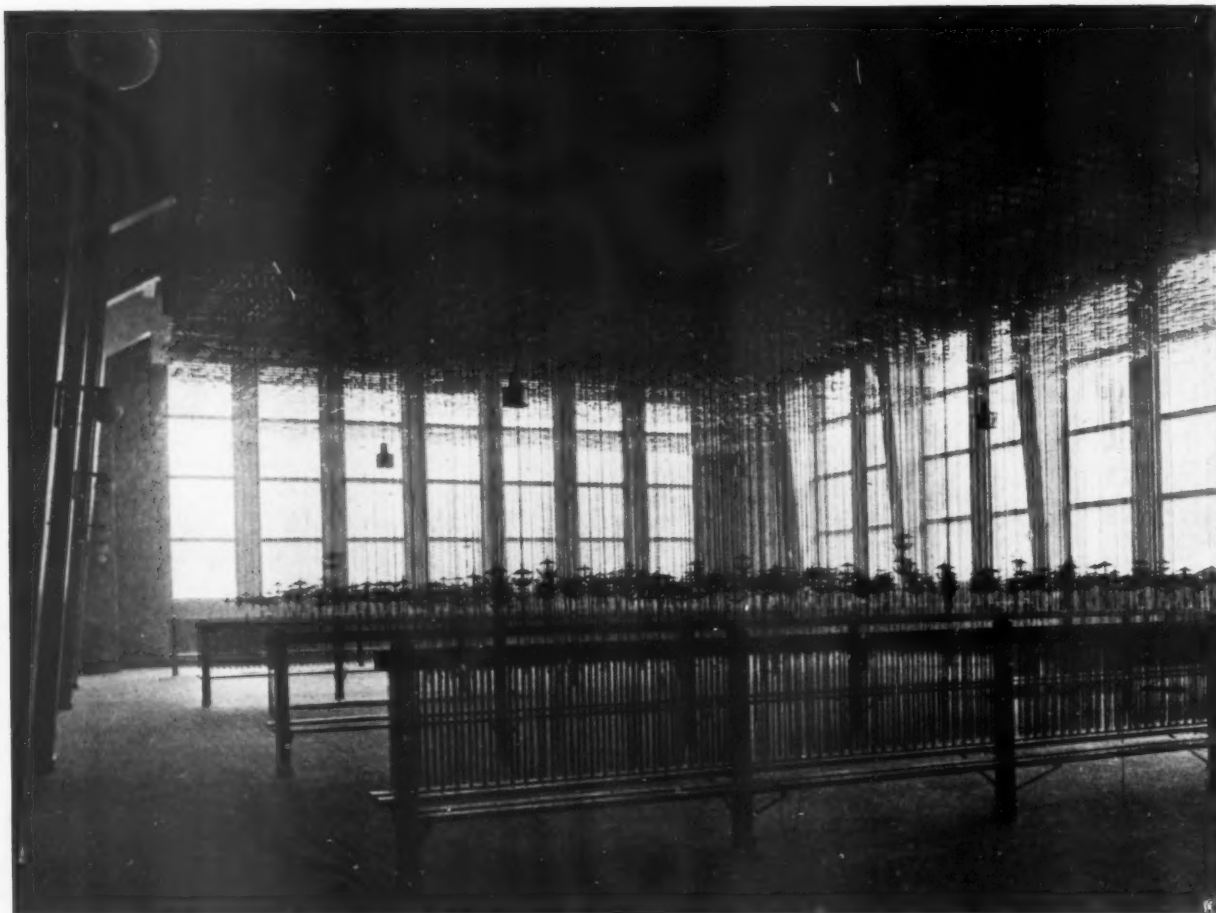
great Black and White changing rooms, asphalt tiles on the floors everywhere, the quality of the sanitary and electrical equipment, the generous space and monumental scale, the elaborate layout providing special facilities for young miners, for invalids and for foremen and inspectors—all these are very different from the strict economy in building that we were practising at the time.

There were two reasons for the difference. One was that the Germans were on top in 1940-43, when these Pithead Baths were building and were waxing fat on the loot of all Europe. Also, of course, the miner was then, as now, a most-favoured person. But the chief reason was that the German building industry stubbornly refused to abate their traditional standards of massive and elaborate building. The Nazis tried to impose building economy, but were unable to get it observed. This was perhaps one of the reasons why they lost the war. Our democratic way proved in the end to be more efficient than the dictatorial. We set up a Ministry



The Black Room looking towards the staircase door (view 3).





*Above, the White Room (view 10). Below, top left, the shower room (4). Top right, footbath between shower room and drying room (5). Bottom left, the drying room and way to irradiation room down stairs in foreground; the irradiation room is under the N.E. part of the White Room in the basement (6). Bottom right, the bathroom for men with injuries.*



of Building in response to urgent demand in the industry, and, co-operating with authority, imposed the economy standards on ourselves.

The planning of the Gelsenkirchen baths is straightforward. All the miners enter through the Pay-Hall, where they clock in, and disperse to their various cloakrooms to join together again on the stairs to the Pithead. The main body of miners goes to the White Room, where they leave their street clothes and they proceed to the Black Room and put on their pit clothes. On the return journey, the Shower, Drying, and Irradiation Rooms are visited between the Black and White Rooms.

One reason why the buildings are recorded here is that they no longer exist, having been destroyed in an air raid. Further details can be obtained at the Ministry of Works Library, where complete plans are available, together with additional photographs and a description by the architect.

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*Above, left, the miners' irradiation room. Centre, the youths' irradiation room in the storey above the youths' cloak-room. Right, the wash basins for day-workers, in the White Room (11). Below, the Pay Hall (12).*



PITHEAD BATHS AT GELSENKIRCHEN

# INFORMATION CENTRE

The function of this feature is to supply an index and a digest of all current developments in planning and building technique throughout the world as recorded in technical publications, and statements of every kind whether official, private or commercial. Items are written by specialists of the highest authority who are not on the permanent staff of the Journal and views expressed are disinterested and objective. The Editors welcome information on all developments from any source, including manufacturers and contractors.

## PHYSICAL PLANNING

2852

Planning Abroad

**TOWN PLANNING IN POLAND, RUSSIA, ITALY, AND FRANCE.** (*Architects' Journal Physical Planning Supplements: March 28, 1946: pp. 251-254, July 11, 1946: pp. 25-28, August 8, 1946: pp. 97-100, October 17, 1946: pp. 277-280.*) Plan for Warsaw. Town Planning in Russia. Milan. La Région Parisienne. Illustrated reviews.

### A Plan for Warsaw

Plan produced by Office for the Reconstruction of the Capital based on ten years' programme. Full powers of land acquisition. New Warsaw mainly governmental and cultural centre. Alignment of transport systems on north-south (national transport) and on west-east (international transport) axes. West-east artery located underground across city area. New city centre with 14 storey high skyscrapers grouped in islands and intersected by two main arteries. Lavishly laid-out educational and cultural centre. Main industrial area given to public utilities, minor industrial areas devoted to light industries mainly run on electricity. Residential areas grouped in close relationship to professional and other work areas, split up into series of large units sub-divided on neighbourhood unit principle. Careful segregation of vehicular and pedestrian traffic. Open space arranged in main strips running from north to south with series of subsidiary ones. Plan based to marked degree on visual aspects interpreted in terms of architecture and reminiscent of le Corbusier's city visions.

### Town Planning in Russia: Proposals for the Redevelopment of Novgorod, Smolensk and Novorossisk.

**Novgorod.**—Replanning of systematically destroyed town under direction of A. V. Schusef. Restoration of damaged buildings incorporating architectural heritage of Novgorod as organic part of new town. Eighteenth century radial pattern of roads converging upon historic centre retained. Through traffic along both sides of river Volga. Tree planting. New location of railways and station. Industry removed outside old city wall away from housing areas, providing easy transport connections by rail, road and water. New town centre to symbolise link between historic traditions of Russian architecture and present-day Soviet town. New buildings treated modestly to form appropriate background to historic monuments.

**Smolensk.**—New plan of almost completely destroyed town under direction of G. Golz. Economic aspects of rebuilding considered under following heads: scale of industrial development; extent of population increase; character and composition of built-up areas; amount of land required for town development; and best position for reconstructed railway station. Great double avenue to form main feature of new town. Substantial

increase of open spaces. Adoption of concentric height zoning for built-up areas with average height of four storeys within central area.

**Novorossisk.**—Extensive damage. New plan emphasizing importance of Black Sea port as holiday traffic centre. Town centre with main public buildings, hotels, tourist offices, shops, and railway station moved to shore. Provision of new tourist station near sea to facilitate transfer from train to ship. Additional industrial station near factory area divided from town by park strip.

### Milan: Outline Proposals for the Replanning and Reconstruction

Long-term plan based on considerations of balanced economy and better living conditions, setting out major proposals for housing, industry and transport with due regard to regional setting. Value of plan in broad conception of first principles taking into account social, industrial and other factors.

### La Région Parisienne: Recent Developments in the Planning Scheme.

Pictorial presentation of growth of city including latest proposals for future control and redevelopment. Variation of population density. Distribution of population. Road proposals. Allocation of open spaces.

## STRUCTURE

2853

Cruden House

**THE CRUDEN HOUSE.** (*Crudens Limited, Musselburgh, Scotland*). Steel framed, concrete clad prefabricated two-storey permanent house.

The design is based on a module of 3 ft. 6 in. The frame is of cold rolled steel sections. First floor beams span the full width of the house. Protection against corrosion is provided by a factory applied zinc chrome finish. The outer wall cladding consists of concrete blocks 3 ft. 6 in. long, 1 ft. high, 2 in. thick, of vibrated or lightweight concrete, held to the steel columns by galvanised ties. The horizontal joints are tongued and grooved, laid dry, and sealed with bituminous mastic strip in the grooves. The inner cladding is of prefabricated timber frames lined with fibre-board and filled with fibreglass where required. Both ground and first floors are in timber. The pitched roof is covered with concrete tiles laid on a metal grid.

Demonstration houses of this type were built at Milton Road, Edinburgh, and tested by the BRS. The system has been approved by the Department of Health for Scotland.

2854

Steel Frame

**SPACE FRAME.** Designed by O. Safir. (*The Architects' Journal*, October 24, 1946, pp. 299-301). System of north light roof construction.

The bays are arranged in such a way that, besides the valley and ridge purlins, only one intermediate purlin is required in the

South slope. The three purlins of one bay are framed and braced together to form a Space Frame girder of triangular cross section which can span a great length from gable to gable. In the example illustrating the system, bays of 18 ft. width have been used and the space frames have spans of 68 ft. 3 in. and 58 ft. 6 in. On the same system, the designer has prepared schemes for roofs of a free span of up to 120 ft. with a bay width of 21 ft.

2855

Pre-stressing

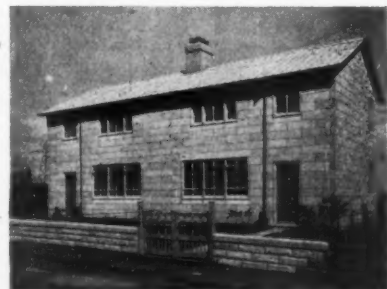
**VORGESPANNTER BETON.** (PRE-STRESSED CONCRETE). *Mitteilungen aus dem Institut für Baustatik an der Eidgenössischen Technischen Hochschule in Zürich.* No. 15. Dr. M. Ritter and Dr. P. Lardy. (Gebr. Lehmann A.G., Zürich, 12 Swiss Francs). History of pre-stressing. Theory and method of design. Results of tests made in Switzerland. Recommendations for the use of pre-stressed concrete. Swiss applications.

The book is a report on the development of pre-stressed concrete in Switzerland.

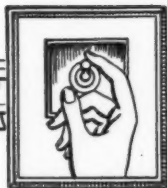
The shortage of materials during the war stimulated Swiss engineers to use pre-stressed concrete in order to save steel. An amount of appr. £2,000 was contributed by several organizations and spent on research by a Committee of the Institution of Swiss Engineers and Architects. After preliminary tests on small beams, a large number of beams 20 ft. long, 5 in. by 8 in. cross section were tested for static and a few for dynamic loading. Although further tests for dynamic loading are desirable, it was possible to make recommendations for the selection of materials, permissible stresses, method of design, factors of safety and testing.

The essential requirement of pre-stressed concrete is the maintenance of bond. This depends on the density of concrete, and on the type of reinforcement. Vibration of the concrete has a favourable effect on the bond. Square twisted single bars and twin twisted round wires are superior to the usual type of wire with blank surface.

Besides theoretical considerations and the description of test results, the book contains several applications in Switzerland. They comprise poles for electric railways, basis for timber masts, sleepers, bridges and floors for heavy loads. The most important development in the practical use of pre-stressed concrete is the combination of pre-cast pre-stressed units with *in situ* concrete in a compound structure. The units form the permanent shuttering to the *in situ* part of the construction and carry its weight, whereas any additional dead load and the whole live load are carried by the compound structure. Thus the pre-cast units are much lighter than if they had to carry the total load. This type of compound structure was suggested in this country as long ago as



The prefabricated Cruden House of steel frame with concrete cladding based on a module of 3 ft. 6 in. See No. 2853.



# *Electricity*

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Electricity, which was the *mainpower* behind the production of munitions of war, is now a prime necessity in the building and equipment of the new and better homes for peacetime Britain. Electricity is no longer a luxury to be enjoyed by a few; it is the *main source* of that comfort and cleanliness to which every householder is entitled. And, in addition to being indispensable, Electricity is able to meet—and is meeting the hundred and one demands which indispensability entails.

For information and advice about the many new uses and greatly increased adaptability of Electricity consult your Electricity Supply Undertaking or the British Electrical Development Association, 2 Savoy Hill, London, W.C.2

*The Electrical Section at the Building Centre, Maddox Street, London, W.1, provides interesting illustrations of electrical application in domestic and industrial premises.*







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1944, but has not yet been carried out.

The book shows that pre-stressed concrete offers much scope both to engineers and architects. It concludes with a list of references to publications on the subject.

## LIGHTING

2856

Vision

**THE RELATION BETWEEN ILLUMINATION AND VISION.** C. L. Crouch. (*Illuminating Engineering*, November, 1945, p. 747.) Paper reviewing research on illumination, and vision. Brief, lucid and comprehensive. Illustrated by graphs.

The paper is a review of the present state of knowledge on the relation between illumination and vision, and makes reference to the more significant of the researches which form the background of lighting practice. The material is discussed as follows:—

### Primary Factors

Visual Acuity (size of detail to be seen). Contrast (contrast of object with its background).

Time (speed of vision).

Brightness (the illumination reaching the eye by reflection from the object).

### Modifying Factors

Age (visual efficiency as compared with normal eye).

Sub-normal Vision (visual efficiency, and visual health).

Glare and State of Adaptation (visual efficiency and visual comfort).

Of the primary factors, it is pointed out that the first three—visual acuity, contrast and time—vary directly with the fourth, which is brightness. In each case it is now known what percentage efficiency corresponds to any given brightness, and it is observed that current American usage corresponds to about 98 per cent. performance for the normal eye. The efficiency accorded by British code recommendations is a little lower. This does not provide for any safety factor, or any of the comfort or health factors.

The summaries of other portions of the review are less conclusive, presumably for the reason that the subjects are less amenable to physical measurement.

The author is the technical secretary of the American Illuminating Engineering Society. The paper is written clearly and in all respects provides an admirable picture of the present state of fundamental knowledge in this field.

2857

Store Windows

**REFLECTION FACTORS IN STORE WINDOWS.** K. C. Welch. (*Arch. Record, USA*, July, 1946, p. 107.) Short note, mainly dependent on diagrams.

In this note it is observed that in America the so-called open-front window is now much used and raises particular reflection problems. The open-front store is described as one in which the display case has no back screen, and a person outside can see directly into the shop. In such cases, it is stated, it is more difficult than usual to illuminate the display sufficiently brightly to compete with reflections which may occur on plate glass windows. The reflection factor of plate glass is about 8 per cent., and it is shown that reflections of street scenes can often themselves reach brightnesses which interfere with the view of the display. This is based on the fact that where the brightness of the view being reflected is about equal to the display, the conditions will just be acceptable. When the reflected view has a brightness equal to or greater than about twice that of the display, the glare of the reflection can destroy

the usefulness of the display. It is of course common to find street scenes as bright as 500-1,000 f.c., and obviously displays cannot compete with this.

The author describes briefly how the plane of the glass can be manipulated, often in association with canopies, screens, etc., to reflect only low brightness surfaces, and there are several excellent diagrams.

For the architect interested in shop fronts and looking for material bearing on the functional influences in design, this note will be very useful.

2858

Daylight Factors

**PROTRACTORS FOR THE COMPUTATION OF DAYLIGHT FACTORS.** A. F. Dufton. (*Building Research Technical Paper No. 28, H.M. Stationery Office*, 1946. 4d. net.) Directions for using the Building Research Station Daylight Factor Protractors. Clear and useful statement. Eleven illustrations.

In 1940 the Building Research Station produced its now well-known daylight factor protractors, to meet certain needs of design in wartime factories. Since then the users of the protractors have subsisted on the briefest of instructions for their use. This is rectified in the present publication which refers to the basis on which the instruments were devised, and fully illustrates and describes their use in practice. The examples are based on factory designs but will be readily understood in terms of other building types such as schools, for which they are obviously well suited.

The Bulletin is accompanied by the protractors, now themselves obtainable from H.M. Stationery Office. They are issued in four pairs for vertical and horizontal glazing, and for slopes at 30° and 60°. Each pair consists of protractor and auxiliary scale. A further pair for unglazed apertures is also available.

The Bulletin is lucid and sufficiently comprehensive to meet the normal needs of designers. The examples are well chosen.

2859

Windows

**DAYLIGHT FACTORS FOR EJMA STANDARD CASEMENT WINDOWS.** (*The English Joinery Manufacturers' Association*, 1946.) Data on daylighting for wood windows. Reliable and useful information. Illustrated with daylight contours.

The National Physical Laboratory has published its Daylight Factor Tables (see No. 2858 above) for graded window sizes, and now EJMA has published corresponding data for standard wood windows, prepared also by the National Physical Laboratory.

The tables are published for two heights of lintel, 7 ft. 3 in. and 7 ft. 9 in., and in terms of angles of obstruction from 10° up to 40° by steps of 10°. This is a more useful arrangement than the original NPL tables, which covered the range from 0° to 60° in 15° steps, for the common and critical angles of obstruction usually occur in the region of 10° to 30°. The restriction to two lintel heights is not likely to cause any real difficulty in practice.

The booklet contains an introduction explaining the nature of daylight analysis, well and clearly written and usefully illustrated, especially in respect to different kinds of obstruction. Daylight contours for each window type are also illustrated, and these should prove both instructive and useful to designers.

It is very satisfactory to see a commercial association co-operating in this way to further the use of this new form of simplified analysis, and when the Code of Practice for Daylighting comes out in its final form, the full usefulness of the technique will no

doubt be realized. It is to be hoped that the metal window manufacturers are ready with similar data for their products.

## PLUMBING and Sanitation

2860

Sewage Disposal

**SOME MODERN DEVELOPMENTS IN SEWAGE DISPOSAL.** C. R. Deeley. (*Journal of the Institution of Municipal and County Engineers*, September, 1946. Vol. LXXIII, p. 100.) Review of developments in disposal technique since World War I, based on special problems met at Coventry. Experiments in partial purification to increase capacity of available plants. Sludge heating and gas utilization. Present trends in sewage purification. General treatment of subject. Some interesting points are raised.

2861

Sewer Sections

**THE COMPARATIVE VALUES OF CERTAIN SEWER SECTIONS.** Thomas Donkin. (*Journal of the Royal Sanitary Institute*, August, 1946. Vol. LXVI, p. 441.) Author favours new type of U-shaped sewer section, used with success at Sunderland. Claimed to be 10 per cent. less in cost over equivalent circular sections, and more efficient. Comparative calculations for velocity of flow and discharge. Factual treatment of subject.

## QUESTIONS and Answers

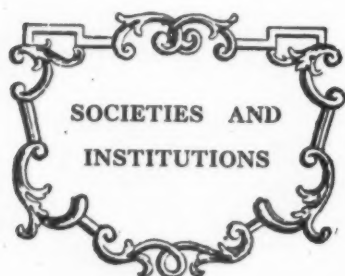
**THE** Information Centre answers any question about architecture, building, or the professions and trades within the building industry. It does so free of charge, and its help is available to any member of the industry. Answers are sent direct to enquirers as soon as they have been prepared. The service is confidential, and in no case is the identity of an enquirer disclosed to a third party. Questions should be sent to: THE ARCHITECTS' JOURNAL, 13, Queen Anne's Gate, Westminster, S.W.1.

2862

Housing Work

**Q** Since returning from the Forces I have heard that the housing work of many Local Authorities is being put out to private Architects and that there is some form of register or registers kept by the Local Authorities concerned. Can you tell me more of this scheme and what action, if any, an Architect returning from the Forces can take to make his availability for such work known?

**A** If you wish to be included on the Register of those Architects who wish to obtain work privately on war damage or under the Ministry of Health or Local Authorities, you must write to the Secretary of the RIBA, notifying him of your return from the Forces and that you are intending to recommence your private practice and that you wish to be put on the Register from which Architects are recommended for that purpose.



*Speeches and lectures delivered before societies as well as reports of their activities, are dealt with under this title, which includes trade associations, Government departments, Parliament and professional societies. To economize space the bodies concerned are represented by their initials, but a glossary of abbreviations will be found on the front cover. Except where inverted commas are used, the reports are summaries, and not verbatim.*

## BIOS

### Sir S. Cripps

December 9 at Imperial Chemical House. Speech by Sir Stafford Cripps, President of the Board of Trade, in connection with the BRITISH INTELLIGENCE OBJECTIVES SUB-COMMITTEE EXHIBITION of German Industrial Information.

**Sir S. Cripps:** I am going to tell you, quite shortly, the story of how the British Government have made available for British industry the vast stores of technical knowledge which existed in Germany at the end of the war.

Right at the very beginning, before even the war was over, there was an Anglo-American field organisation known as CIOS (Combined Intelligence Objective Sub-Committee) which followed in the wake of the advancing armies and studied on the spot these technical developments and reported back on them.

Later, after the war was over, the combined organisation was replaced by the British BIOS and the American FIAT (Field Information Agency Technical). Ever since then BIOS and FIAT have continued to work in close co-operation so that each country has had the full benefit of the information gained by the other.

This work has also been a joint effort of the British Government and British industry, on the basis that all the information gained should be available for the whole of industry.

That information has come through a number of channels.

First and foremost: as the result of the visit of over 10,000 investigators (industrialists, technicians, scientists, and so forth) who have gone to Germany in 3,000 separate teams. This has meant a very great work of organisation in Germany which the Army and the Control Commission have undertaken. More than 10,000 separate

factories or business premises have been visited.

Second: a great mass of German documents have been obtained—research memoranda, technical reports, patent specifications (of which there are over 70,000) and such like documents.

Third, scientists and specialists in Germany have been questioned and some have been brought over to this country for that purpose.

Fourth: a very few highly qualified German technicians in special branches of industry have been brought here to work on research for which there was no available qualified British man-power.

The result of this collection is in the form of reports and documents in the BIOS, and it has been the job to edit, index and make available this valuable material for British industry.

Up to date some 1,400 reports on different subjects—concerning the whole range of production have been published.

Let me give you a list of the main industries covered so that you may realise how all-inclusive these inquiries have been:—

Agriculture, fisheries and food, building and civil engineering, chemicals, electrical and mechanical engineering, glass and ceramics, leather and furs, metals, minerals, optical and mechanical precision instruments, rubber, textiles, clothing, timber pulp and paper, and transport and public utility services. That is not the whole list, but it will show that hardly any productive process or service is left out.

To the total number of reports the joint British-American teams contributed 540, British teams 572 and American teams 278.

It is encouraging, I think, to know that apart from 460,000 copies of these reports circulated to institutions of all kinds for reference by their members, another 490,000 copies have been sold to individuals. That is very nearly a million copies have gone into circulation.

In addition to this there is, of course, a mass of more detailed material. This is partly in the library of BIOS and is available through an Information Bureau which has been set up to service industry in these matters. For the great number of original German documents which are now in our possession, the Document Unit of the Board of Trade is the main central repository, and that unit provides facilities for translating, abstracting and supplying copies to any party who is interested.

I mention all these figures relating to a little known British service, BIOS, because I want to impress upon you the vast importance to this country of the work which they and the Document Unit have done so well.

Of course, all this information is not equally valuable to us, a great deal of it is already known to some people. Some of it was peculiarly useful to war-time conditions in Germany which do not exist in our country, but there remains much from which our industrialists can learn and which will save our researchers from a waste of their time.

What I should like to emphasize is the urgent need for our manufacturers and producers to make the fullest and speediest use of this new knowledge. All of it will become out-of-date, some sooner than other, so that there is no time to waste if we are to get the full advantage of all this effort that has been undertaken. I would particularly appeal to the smaller firms who have not their own research departments to allow BIOS to help them to introduce the latest manufacturing methods and processes. This is all part of our drive to increase production and to improve our competitive position in the world markets. The Information Section of BIOS is at 37, Bryanston Square, London, but any of the Regional Offices of the Board of Trade can tell manufacturers how best they can get the information they need.

## RIBA

### New Members

**Hon. Associate (1):** Whiskard, Sir Geoffrey Granville, K.C.B., K.C.M.G., HON. LL.D. (MELBOURNE).

**Hon. Corresponding Members (4):** Lauritzen, Vilhelm Theodor Vodroffsvej; Onat, Emin; Rasmussen, Steen Eiler; Vago, Pierre.

**Fellows (13):** Bathurst, Leslie John (London); Blackburn, Jack (Old Hill, Staffs.); Cahill, Mrs. Mary Proctor (Newcastle-upon-Tyne); Cahill, Thomas Joseph (Newcastle-upon-Tyne); Dale, Bernard Henry (Southampton); Harrison, Edward James (Edinburgh); King, William Henry (Leeds); Sanders, Maurice (Pinner); Somake, Ellis Edward (London); Tatchell, Rodney Fleetwood (London); Weston, Norman Ernest Godfrey (Sheffield); Worthington, Thomas Shirley Scott (Manchester). **Overseas:** Somjee, Habib Jussabhooy Alladinbhooy (Bombay).

**Associates (27):** Addison, Alexander Joseph (London); Clark, Reginald William (Oakhams, Rutland); Cuzens, Gerald Johns (Lincoln); Dodd, Walter Duncan Middleton (Heswell, Cheshire); Englesmith, George (London); Harvey, Mrs. Margaret Elizabeth Dingwall (Shirley); Harvey, Robert Henry (Shirley); Heaton, Robert Barclay (West Kirby, Cheshire); Holland, Frank Wolstenholme (West Wickham); Knapton, Alan Derek (Worthing); Rogers, Vernon William (High Wycombe); Silcock, Raymond (Seven Kings); Wagg, Donald (Peterborough).

**Overseas:** Bhalla, Jai Rattan (Bombay); Candiotes, George (Germiston, South Africa); Khwaja, Zahir-ud-Deen (Nabha, India); Jenkins, John Tamplin (Kenilworth, Cape); Mehta, Noshir Naoroji (Bombay); Niebuhr, Richard Lodewyk (Johannesburg); Overall, John Wallace (Sydney); Prissman, Benjamin (Johannesburg); Reynolds, Roderick Barker (Cape Town); Samarasekera, Agampodi Justin Victor de Zoysa (Ceylon); Spooner, Peter (Sydney); Tacon, Ivor Charles Russell (Fairfield, N.S.W.); Beagley, John Clifford (Sydney); Lautenbach, Basil George (Cape Town).

**Licentiate (16):** Allen, Leonard Clifford (Leicester); Baird, Graham Scott (Budeleigh Salterton); Beilby, Leslie George (York); Cosedge, David Ernest (London); Curtis, John (Hastings); Gainsford, Alan Peter (London); George, Alfred (Merthyr Tydfil); Griffiths, John Morgan Gordon (Tenby); Kay, Thomas Stephen (Stafford); King, John Clifford (Sleaford); Muir, Charles Robertson (Paisley); Powell, Thomas Leonard (Northampton); Slade, Arthur (London); Stott, Hugh Ronald (Stockport); Waller, Charles Ashton (Aylesbury); Wilkinson, William Currington (Peterborough).

## Announcements

All copies of the *Building Technicians' Diary* for 1947, published by the Association of Building Technicians, were sold before delivery from the printer.

Mr. F. J. Evans has been appointed to a second post of Deputy Chief Planning Officer in the Department of Health for Scotland. He went to the Department in 1943 from the planning staff of the County Council of Lincoln, and was promoted to be a Regional Planning Officer in 1945.

## Correction

In the description of the Experimental Box Frame House at Codicote, Herts, under the heading Floors, it is stated that the concrete is screeded to give a level finish, for 4 in. Semtex rubber latex cement flooring. This is incorrect. The figure 4 in. should read  $\frac{1}{2}$  in.

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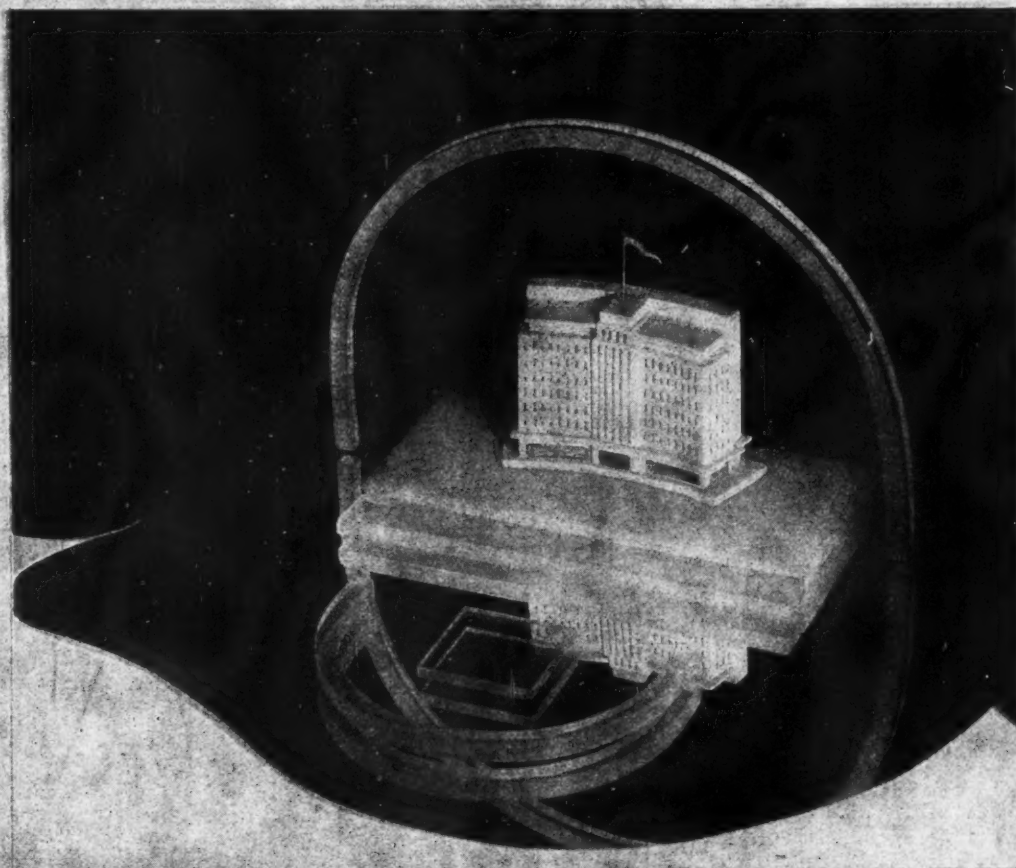
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BASIC MATERIALS	Increase over pre-war prices at end of										
	Jan. 1946	Feb. 1946	Mar. 1946	Apr. 1946	May 1946	June 1946	July 1946	Aug. 1946	Sept. 1946	Oct. 1946	Nov. 1946
Portland cement ..	Per cent. + 56.10	Per cent. + 56.10	Per cent. + 56.10	Per cent. + 56.10	Per cent. + 56.10	Per cent. + 56.10	Per cent. + 56.10	Per cent. + 56.10	Per cent. + 56.10	Per cent. + 56.10	Per cent. + 51.22
2-in. Unscreened ballast ..	+ 117.58	+ 117.58	+ 117.58	+ 117.58	+ 117.58	+ 117.58	+ 126.09	+ 126.09	+ 126.09	+ 143.48	+ 143.48
Fletton bricks (at station)	+ 36.22	+ 36.22	+ 36.22	+ 36.22	+ 49.19	+ 49.19	+ 51.35	+ 51.35	+ 51.35	+ 51.35	+ 51.35
Stoneware drainpipes (British Standard) (2 tons and over) ..	+ 43.75	+ 43.75	+ 43.75	+ 72.92	+ 87.50	+ 109.37	+ 109.37	+ 109.37	+ 109.37	+ 109.37	+ 109.37
Roofing tiles ..	+ 86.90	+ 86.90	+ 86.90	+ 86.90	+ 101.88	+ 101.88	+ 101.88	+ 101.88	+ 101.88	+ 101.88	+ 101.88
Steel joists (basic sections ex mills) ..	+ 50.03	+ 50.03	+ 50.03	+ 50.03	+ 50.03	+ 50.03	+ 50.03	+ 57.72	+ 57.72	+ 57.72	+ 57.72
Lime greystone ..	+ 57.65	+ 57.65	+ 57.65	+ 57.65	+ 57.65	+ 67.06	+ 67.06	+ 70.60	+ 70.60	+ 70.60	+ 70.60
Sheet lead ..	+ 84.79	+ 84.79	+ 84.79	+ 113.72	+ 113.72	+ 113.72	+ 197.82	+ 197.82	+ 197.82	+ 202.17	+ 202.17
Iron rainwater goods and soil pipes ..	+ 70.60	+ 70.60	+ 70.60	+ 70.60	+ 70.60	+ 82.37	+ 82.37	+ 84.72	+ 84.72	+ 84.72	+ 84.72
White lead paint ..	+ 46.21	+ 46.21	+ 46.21	+ 47.41	+ 47.41	+ 47.41	+ 65.15	+ 65.15	+ 65.15	+ 65.15	+ 65.15
<b>RATES OF WAGES (Central London Area)</b>											
Labourers ..	+ 45.54	+ 45.54	+ 45.54	+ 45.54	+ 45.54	+ 45.54	+ 45.54	+ 45.54	+ 45.54	+ 45.54	+ 45.54
Craftsmen ..	+ 35.45	+ 35.45	+ 35.45	+ 35.45	+ 35.45	+ 35.45	+ 35.45	+ 35.45	+ 35.45	+ 35.45	+ 35.45

LONDON DISTRICT		LABOUR—Rates of Wages Since January 1, 1946		N.B.—Prices of materials include for delivery to site in the Central London Area unless otherwise stated.	
Within 12 miles radius	..	Craftsmen	Labourers		
From 12-15 " "	..	2s. 7½d.	2s. 1½d.		
	..	2s. 7d.	2s. 1d.		

## GRADE CLASSIFICATIONS

	A	A <sup>1</sup>	A <sup>2</sup>	A <sup>3</sup>	B	B <sup>1</sup>	B <sup>2</sup>
Craftsmen	2/6	2/5½	2/5	2/4½	2/4	2/3½	2/3
Labourers	2/-	1/11½	1/11½	1/11	1/10½	1/10	1/9½

*T. Davis*

F.S.I., F.I.Arb.



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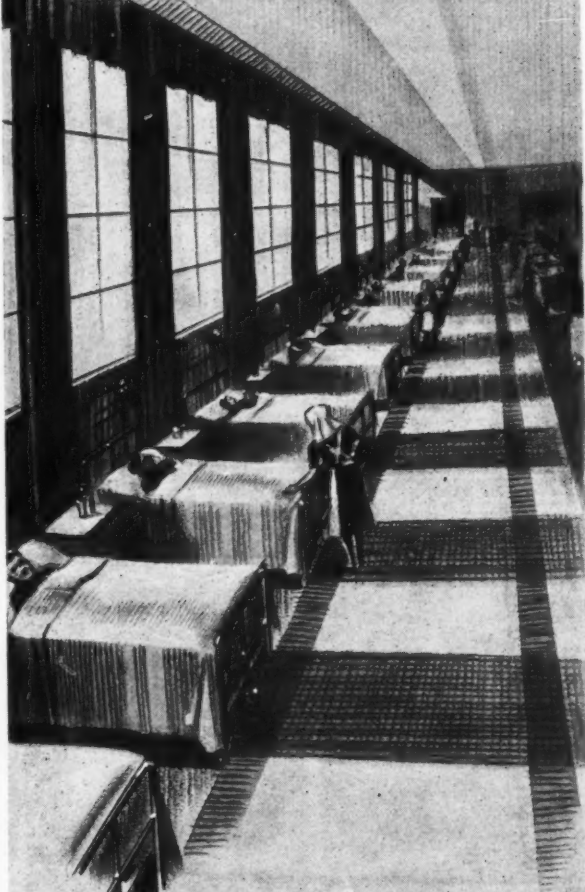
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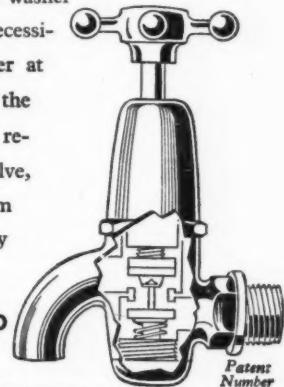
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**automatically turns off water  
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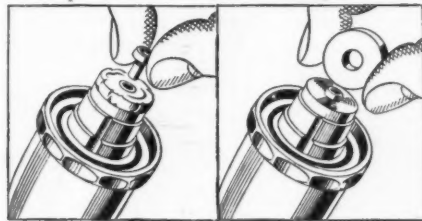
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of a *Shaff Tap* does not necessitate turning off the water at the main or stop-tap. As the head is unscrewed and removed the secondary valve, located in the bottom housing, automatically stops the flow.



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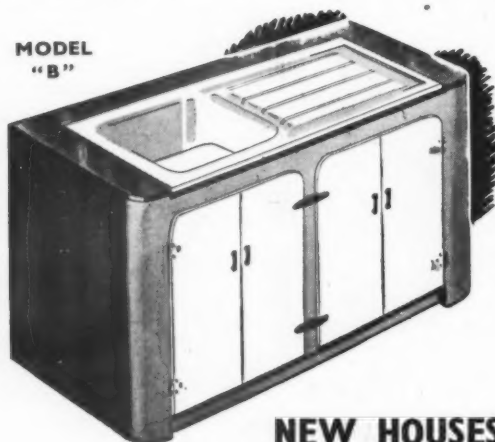
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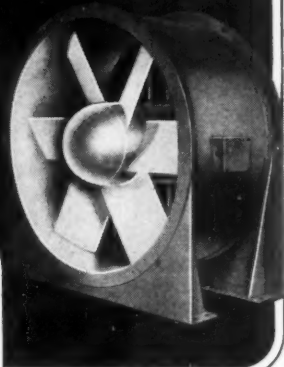
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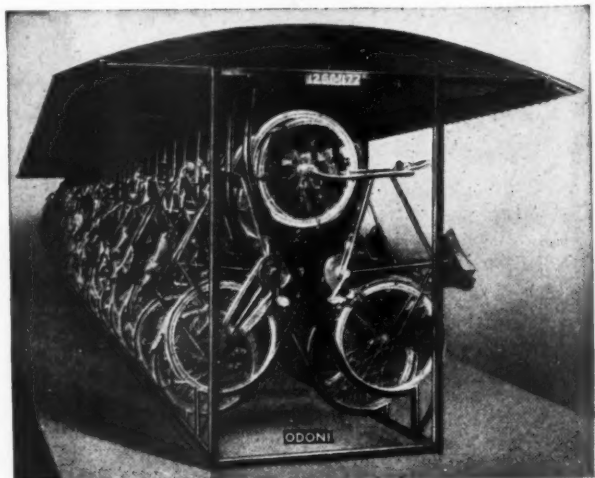


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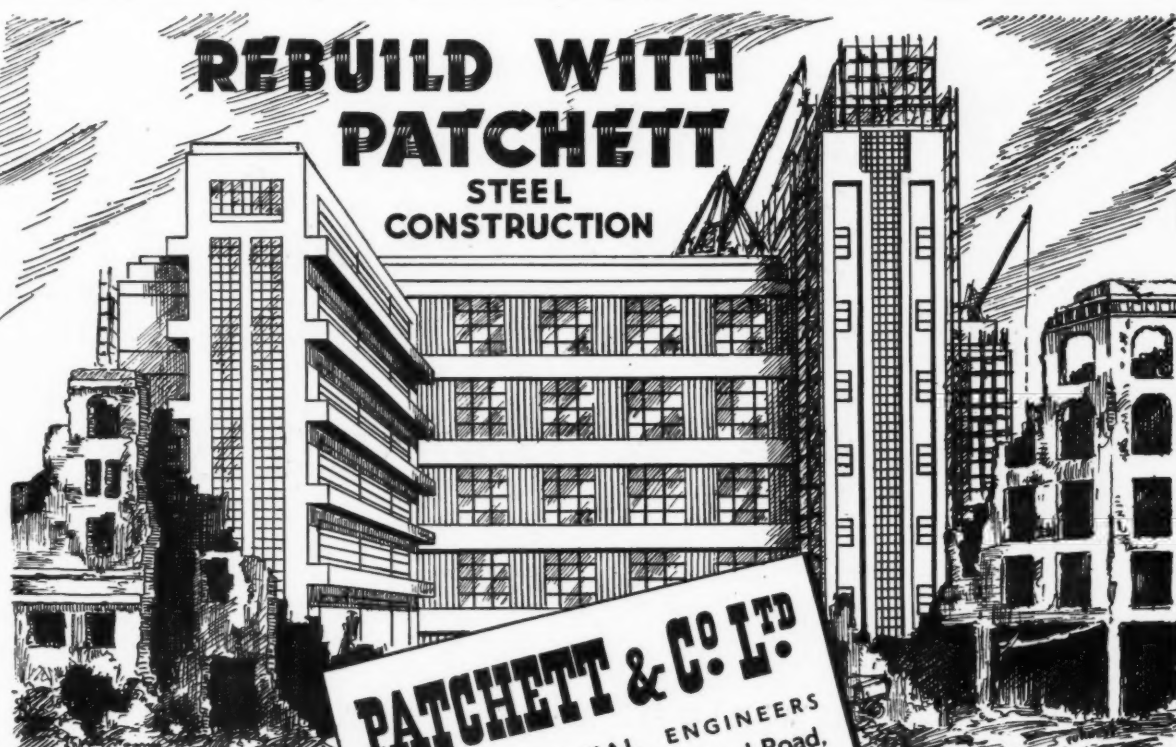
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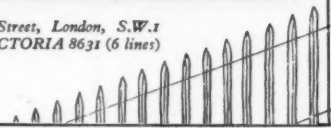
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## CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," War Address: 45 The Avenue, Cheam, Surrey, 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," War Address: 45 The Avenue, Cheam, Surrey.

## Public and Official Announcements

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

THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. Address: 75, Eaton Place, London, S.W.1. Tel. Sloane 5615. 991

## LONDON COUNTY COUNCIL.

Applications are invited for the following positions:—

(1) QUANTITY SURVEYORS AND ASSISTANTS (SENIOR AND JUNIOR). Required for:

(a) "Taking-off" quantities, measuring, and adjusting variations under building contracts and preparing estimates.

(b) Preparing estimates and measuring repairs and minor works under schedule of prices (experience of London County Council, War Department or Office of Works Schedules).

(c) Working up, etc., in connection with domestic buildings and general working up (junior).

(d) Measurement of roads and sewers and housing work on cottage estates, preparation of interim and final bills on Schedules.

(2) ARCHITECTS, BUILDING SURVEYORS, TECHNICAL ASSISTANTS (ARCHITECTURAL), AND JUNIOR DRAWING OFFICE ASSISTANTS. Required for:

(a) Work in connection with the design and development of housing schemes for cottage estates and block dwellings (experience in domestic architecture preferred).

(b) Similar work in connection with schools and hospitals.

(c) The preparation of estimates and specifications for works of cleaning and painting, repairs and minor alterations at schools and hospitals.

(d) Assistants to district surveyors. A knowledge of the London Building Acts and by-laws is necessary for these positions.

(e) Junior drawing office assistants for general drawing office work. Should be able to finish plans from rough drawings, take dimensions and make sketches. Pay, according to age and experience, up to 55s. a week, plus cost-of-living addition.

(3) HEATING ENGINEERS AND HEATING AND VENTILATING ASSISTANTS. Good technical education required. Applicants must be experienced in the design of, and preparation of drawings, specifications and estimates for modern hot water heating, ventilating and hot water supply schemes.

Except as otherwise shown, salaries for the above positions will be determined by qualifications and experience up to a maximum of £420 a year, together with cost-of-living additions up to £90 a year, according to basic salary. Salary up to £500 for certain positions of heating engineer and building surveyor. Successful candidates will be engaged on a temporary basis, but will be eligible for appointment, according to merits, for permanent appointment on the occurrence of vacancies. Temporary staff are required to contribute to the Council's Superannuation and Provident Fund.

Ex-Service candidates with experience prior to their war service will be specially considered.

Application forms may be obtained from the Clerk of the Council, County Hall, Westminster Bridge, London, S.E.1, enclosing stamped addressed foolscap envelope.

Canvassing disqualifies. 947

LONDON COUNTY COUNCIL.  
CLERKS OF WORKS.

Applications are invited for positions of Clerks of Works (Class II), in the Architect's Department, to supervise construction, maintenance and repair works at the Council's schools, hospitals, and other buildings. There may also be shortly a few Class I positions. Rates of pay (according to qualifications and experience) are: Class I, £360-£400 a year (basic), plus cost-of-living addition, at present £78-£90 a year; Class II, up to 135s. a week, plus cost-of-living addition, at present, of 30s. a week.

Successful candidates, under 35 years of age, will be subject to the Council's Superannuation and Provident Fund, but will be temporary in the first instance.

Other things being equal, preference will be given to persons registered under the Disabled Persons' (Employment) Act, 1944, and ex-Service men will also receive special consideration.

Applications (enclosing stamped addressed envelope) to be made to the Architect to the Council, County Hall, Westminster Bridge, S.E.1, for form of application.

Canvassing disqualifies. 955

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

Applications are invited for the following appointments, all of which are permanent and subject to the Local Government Superannuation Act, 1937, a satisfactory medical examination, and one month's notice on either side for termination.

The salary scales are those of the A.P. & T. Division of the National Scheme of Conditions of Service, and are exclusive of the cost-of-living bonus, at present £59 16s. per annum.

(a) ENGINEERING ASSISTANT (Grade V), £460-£510.

(b) ENGINEERING ASSISTANT (Grade IV), £420-£465.

(c) ARCHITECTURAL ASSISTANT (Grade IV), £420-£465.

(d) CHIEF TOWN PLANNING ASSISTANT (Grade V), £460-£510.

Candidates for appointment (a) should hold one at least of the following qualifications (a) Associate Membership Examination Inst. C.E., (b) Testamur of the Inst. M. & Cy.E., (c) an Engineering Degree of a British University, and should have had considerable experience in Municipal Engineering Works.

Candidates for appointment (b) should preferably hold one of the qualifications referred to in appointment (a), or should be well advanced in the examinations for such qualification, and should have had some experience in Municipal Engineering Works.

Candidates for appointment (c) should be Registered Architects, and preference will be given to those who have passed the examination for Associateship of British Architects, and should have some experience in Municipal Architectural work, particularly housing and schools.

A Borough Architect's Department is being set up, and the candidate appointed will join that department.

Candidates for appointment (d) should be Associate Members of the Town Planning Institute, and have good experience in the preparation of Town Planning Schemes.

Applications, stating age, present and previous positions, technical training and qualifications (with dates), and concise particulars of experience, together with the names and addresses of two persons to whom reference may be made, must be delivered, appropriately endorsed, to Mr. James H. H. Assoc. M. Inst. C.E., Borough Engineer and Surveyor, Town Hall, Widnes, to arrive not later than Monday, the 6th January, 1947.

Canvassing will be a disqualification, and candidates must disclose any relationship to members of the Council.

The Council are having houses erected for members of their staff who are urgently needing them, and if required by the successful candidates, houses will be offered during the first six months of their service.

JAMES WALLACE.

Town Clerk.

Town Hall, Widnes.  
3rd December, 1946.

528

## BOROUGH OF NELSON.

Applications are invited for the appointment of SECOND ARCHITECTURAL ASSISTANT, in the Borough Surveyor's Department, at a salary in accordance with Grade IV of the National Scale, £490-£515-£465, plus cost-of-living bonus, at present £59 16s. per annum.

Candidates should have had experience in housing and general work. Applications, giving detailed particulars of experience and qualifications, endorsed "Architectural Assistant," with copies of three recent testimonials, to be delivered to the undersigned on or before Saturday, 28th December, 1946.

F. W. ROBERTS.

Town Clerk.

Town Hall, Nelson, Lancashire.  
5th December, 1946.

546

## BOROUGH OF LUTON.

## TECHNICAL STAFF.

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

(a) TWO SENIOR ARCHITECTURAL ASSISTANTS. Salary £535-£570-£520-£225-£460.

(b) ONE ARCHITECTURAL ASSISTANT. Salary £420-£465.

Applicants must be A.R.I.B.A., and have had extensive experience in the design and construction of public buildings, schools, and municipal houses, and, in particular, have had recent experience in the design and development of housing schemes.

The appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and temporary cost-of-living bonus, at the rate of £59 16s. per annum, is payable in respect of each appointment.

Applications, suitably endorsed, giving particulars of age, qualifications and experience, together with details of present appointment, and accompanied by copies of not more than three recent testimonials, should be delivered to the Borough Engineer, Town Hall, Luton, Beds, not later than first post of Friday, 10th January, 1947. Canvassing, directly or indirectly, will disqualify.

W. H. ROBINSON.

Town Clerk.

Town Hall, Luton.  
3rd December, 1946.

535

COUNTY BOROUGH OF HALIFAX.  
BOROUGH ENGINEER'S DEPARTMENT.

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

(1) PRINCIPAL ARCHITECT FOR SCHOOLS, at a salary of £575, rising to £650 per annum, in accordance with Grade VII (A.P.T. Division) of the National Scale.

(2) ARCHITECTURAL ASSISTANT, at a salary of £420, rising to £465 per annum, in accordance with Grade IV (A.P.T. Division) of the National Scale.

(3) QUANTITY SURVEYOR, at a salary of £420, rising to £465 per annum, in accordance with Grade IV (A.P.T. Division) of the National Scale.

(4) JUNIOR ARCHITECTURAL ASSISTANT, at a salary of £315, rising to £360 per annum, in accordance with Grade II (Miscellaneous Division) of the National Scale.

Cost-of-living bonus, at present £59 16s. per annum, will be payable in respect of each appointment.

Candidates for appointment:

(1) will be responsible for the design and construction of new schools, alterations to existing schools, and for the carrying out of instructions issued through the Chief Education Officer in respect of the administration and maintenance of School Buildings. Candidates must be A.R.I.B.A. or hold equivalent qualifications, and have had experience in design of school buildings, and should be competent in architectural design. They must also be familiar with the Building Regulations of the Ministry of Education.

(2) should be fully trained architects, experienced in the preparation of plans, working drawings, details and specifications, and be capable of preparing estimates and making surveys and levelling. Preference will be given to those having experience in housing, and who hold a recognized Architectural qualification.

(3) must have had regular training as Quantity Surveyors, and have had considerable experience in the preparation of building quantities and settlement of accounts.

(4) should be trained Architects, capable of assisting in the preparation of schemes for and the supervision of architectural work. They must be neat draughtsmen, and a recognized architectural qualification will be considered an advantage.

The appointment will be subject to the conditions of service adopted by the Corporation, and to the Local Government Superannuation Act, 1937.

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

Applications, stating age, qualifications, present position and salary, and experience, accompanied by copies of three recent testimonials, appropriately endorsed, should be delivered to the undersigned not later than Saturday, the 28th December, 1946.

W. USHER.

Town Clerk.

Town Hall, Halifax.  
25th November, 1946.

508

CROWN AGENTS FOR THE COLONIES.  
COLONIAL GOVERNMENT APPOINTMENTS.

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

DRAUGHTSMAN required by the Government of Uganda Public Works Department for three years, with prospect of permanency. Salary according to qualifications, and experience in the scale £372, rising to £500 a year, plus cost-of-living allowance, which on salary of £372 is between £43 and £166, according to number of dependants. Initial outfit allowance £30. Free passages and quarters. Candidates must be rapid and accurate architectural draughtsmen, with considerable experience of the design and construction of public buildings. Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/12940 on both letter and envelope. 551

COUNTY BOROUGH OF OLDHAM.  
APPOINTMENT OF GENERAL ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of a General Architectural Assistant in my department.

The salary will be at the rate of £360 per annum, rising to £405 per annum (plus cost-of-living bonus, at present £59 16s. per annum), being Grade II of the National Scale of Salaries.

Applicants are requested to give full information regarding their qualifications and experience.

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

Applications, stating age and previous appointments, in addition to qualifications and experience, and copies of three recent testimonials, must reach the undersigned not later than Monday, 23rd December, 1946, in envelopes endorsed "General Architectural Assistant."

A. L. HOBSON.

Borough Engineer and Surveyor.  
Municipal Buildings, 75, Union Street,  
Oldham.

4th December, 1946.

531

# MIDDLESEX COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. Applications are invited for the following appointments to established staff, subject to medical examination:—

(a) **ARCHITECTURAL STAFF:**  
(1) **SENIOR ASSISTANT.** Commencing salary £750, rising by annual increments of £50 to £850 p.a.

Applicants must have a specialized knowledge of school design, be capable of controlling staff, and have good experience on administrative work.

(2) **ARCHITECTURAL ASSISTANTS.** in the following grades of the Administrative, Professional, and Technical Division of the National Scales:—

Grades VI.—£555-£620 p.a.  
Grades II, IV and V.—£390-£530 p.a., or at intermediate salaries.

Grade I.—£350-£395 p.a.

(3) **JUNIOR ARCHITECTURAL ASSISTANTS.** in Miscellaneous Division, Grade I (£285-£330 p.a.).

Applicants for appointments in Grade VI and above should be Associate Members of the R.I.B.A.

(b) **QUANTITY SURVEYING STAFF:**  
(1) **CHIEF QUANTITY SURVEYOR.** Commencing salary £850, rising by annual increments of £50 to £1,000 p.a.

Applicants must be fully qualified Quantity Surveyors, have had wide experience in all branches of the work, and be good organizers.

(2) **QUANTITY SURVEYING ASSISTANTS.** in the following grades of the Administrative, Professional, and Technical Division of the National Scales:—

Grade VIII: £645-£720 p.a.  
Grade VII: £595-£670 p.a.  
Grade VI: £555-£620 p.a.

Grades II and IV: £380-£485 p.a.

Applicants for Grade VI and above must be fully qualified Quantity Surveyors.

Temporary cost-of-living bonus, £50 p.a., additional to all the foregoing salaries, which are inclusive of London Weighting.

Written applications, stating appointment and grade for which applying, and giving full details of age, qualifications and experience, together with copies of recent testimonials, to C. G. Stillman, F.R.I.B.A., County Architect, 20, Vauxhall Bridge Road, S.W.1, by Monday, 30th December, 1946.

Canvassing will disqualify.  
C. W. RADCLIFFE,  
Clerk of the County Council.

Guildhall, S.W.1 (A.773). 998

# COUNTY COUNCIL OF LEICESTER. Applications are invited for the following appointments, on the permanent staff of the Department of the Architect to the Education Committee:—

(a) **THREE ARCHITECTURAL ASSISTANTS.** National Scale, A.P.T., Grade III. Salary £390 to £435 p.a., plus war bonus (at present £59 16s. p.a.).

(b) **ONE DRAUGHTSMAN.** Miscellaneous Division, Grade II. Salary £315 to £360 p.a., plus war bonus (at present £59 16s. p.a.).

Applicants should have had experience in an Architect's Office, and should be able to prepare working drawings. They should have a thorough knowledge of building construction.

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

It is desirable that applicants should be members of the Royal Institute of British Architects.

Applications, stating age, qualifications, experience, the names of two persons to whom reference may be made, and endorsed "Architectural Staff," should be delivered to the undersigned not later than the 31st December, 1946.

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

JOHN A. CHATTERTON,  
Clerk of the County Council.  
County Offices, Grey Friars, Leicester.  
29th November, 1946. 999

# METROPOLITAN BOROUGH OF BERMONDSEY. APPOINTMENT OF ESTIMATOR.

Applications are invited from fully qualified and experienced persons for appointment as Estimator. In the Building Manager's Department. The salary will be between £500 and £600 per annum, according to the qualifications and ability of the successful applicant, who will be required to pass a medical examination, and to contribute to the Council's Superannuation Fund. The appointment will be temporary for a period of one year in the first instance, and subject to one month's notice on either side. At the end of that period, and subject to satisfactory service, the position will be reviewed with a view to transfer to the Council's permanent establishment.

Applications, on forms to be obtained from the Building Manager, Municipal Offices, Bermondsey, must be enclosed in a sealed envelope marked "Estimator," and returned to him not later than the 28th December, 1946. Canvassing will be a disqualification.

S. E. FREEMAN,  
Town Clerk.  
Municipal Offices, Spa Road, S.E.16.  
2nd December, 1946. 526

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

Applications are invited for the following appointments, in the Borough Engineer and Surveyor's Department. The appointments are established posts, subject to the provisions of the National Scheme of Conditions of Service and of the Local Government Superannuation Act, 1937. The successful candidates will be required to pass a medical examination. The appointments will be terminable by one month's notice on either side. In addition to the salaries stated below, each appointment carries with it a cost-of-living bonus, which is at present £59 16s. per annum.

(1) **SECOND ARCHITECTURAL ASSISTANT.** Grade IV/V (£420-£435-£445-£455-£465-£475-£485). Commencing salary £435. Qualifications required:—A.R.I.B.A.

(2) **THIRD ARCHITECTURAL ASSISTANT.** Grades III/IV (£390-£405-£415-£425-£435-£445-£455). Commencing salary in accordance with qualifications. Qualifications required:—Registered Architect, preference A.R.I.B.A.

(3) **QUANTITY SURVEYING ASSISTANT.** Grade III (£390-£405-£415-£425-£435). Qualifications required:—Member of the Royal Institution of Chartered Surveyors (Quantities Sub-Division).

(4) **GENERAL ENGINEERING ASSISTANT.** Grade I (£330-£345-£355-£365-£375). Qualifications required:—Previous municipal experience, B.Sc. (Engineering) or Sections A and B of the A.M.I.C.E. Examination or Intermediate Examination of the Testamur of the Institution of Municipal and County Engineers.

Applications suitably endorsed, giving details of experience, age, etc., together with copies of not more than three recent testimonials, to be delivered to the Borough Engineer and Surveyor, Carr Bank, Mansfield, not later than Tuesday, 31st December, 1946.

Canvassing, either directly or indirectly, will disqualify.

A. C. SHEPHERD,  
Town Clerk.  
Carr Bank, Mansfield.  
3rd December, 1946. 545

# COUNTY BOROUGH OF BURTON-UPON- TRENT.

# APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of a Senior Architectural Assistant, in the Borough Surveyor's Department, at a commencing salary of £535 per annum, subject to the National Scheme of Conditions of Service relating to Local Government Officers, and in accordance with Grade VI—Administrative, Professional and Technical Division thereof—plus cost-of-living bonus, at present amounting to £59 16s. per annum.

Preference will be given to Associate Members of the Royal Institute of British Architects, and who possess a knowledge of the design, construction and maintenance of Schools, Housing and Public Buildings.

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

The successful applicant will be required to pass a medical examination by the Medical Officer of Health.

Applications, endorsed "Senior Architectural Assistant," stating age, training, qualifications and experience, and accompanied by copies of not more than three recent testimonials, must be delivered to me not later than Saturday, the 4th January, 1947.

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

H. BAILEY CHAPMAN,  
Town Clerk.  
Town Hall, Burton-upon-Trent.  
7th December 1946. 558

# COUNTY BOROUGH OF EASTBOURNE. BOROUGH ENGINEER'S DEPARTMENT.

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

(a) **TWO ASSISTANT ARCHITECTS.** for Educational Buildings. Salary, Grade A.P.T. V, £460-£510, plus bonus.

(b) **ONE ASSISTANT ARCHITECT.** for Housing and General Architectural work. Salary, Grade A.P.T. V, £460-£510, plus bonus.

(c) **ONE ASSISTANT QUANTITY SURVEYOR.** Salary, Grade A.P.T. II, £360-£405, plus bonus.

Cost-of-living bonus is at present £59 16s. p.a.

Applications for appointments (a) and (b) should be of A.R.I.B.A. standard, and have had appropriate experience.

Appointments are subject to:—

(1) The National Joint Council's Scheme of Conditions of Service.

(2) The Local Government Superannuation Act, 1937.

(3) Medical examination.

Applications, giving details of training, qualifications and experience, together with two recent testimonials or names and addresses of two referees, must reach the undersigned not later than Wednesday, 1st January, 1947.

R. WILLIAMS, B.Sc., A.M.Inst.C.E.,  
Borough Engineer.  
2/4, St. Johns Road, Eastbourne.  
5th December, 1946. 563

# COUNTY OF GLAMORGAN. GLAMORGAN JOINT PLANNING COMMITTEE.

**APPOINTMENT OF PLANNING OFFICER.**  
Applications are invited for the post of Planning Officer to the above-mentioned Joint Committee. The post now advertised is the first appointment to be made.

The post will be a whole-time one, and the salary will be at the rate of £750 per annum, rising by annual increments of £50 to £850, plus cost-of-living bonus, as may from time to time be paid by the Joint Committee (at present £59 16s. per annum). The conditions of service will be those contained in the Scheme of Conditions of Service, prepared by the National Joint Council for Local Authorities Administrative, etc., Services. The appointment will be determinable by three months' notice on either side, and will be subject to the provisions of the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination.

The Joint Committee has recently been constituted to prepare a Planning Scheme for that part of the County of Glamorgan comprising the areas of Ilwchr Urban District Council, Pontardawe Rural District Council, and Gower Rural District Council.

Applicants should have had wide experience of all aspects of Statutory Planning, Interim Development Control, preparation of basic surveys and statutory planning schemes, and must be Corporate Members of the Town Planning Institute. In addition, applicants must be one of the following:—

(a) Corporate Members of the Institution of Civil Engineers.

(b) Corporate Members of the Institution of Municipal and County Engineers.

(c) Corporate Members of the Royal Institution of Chartered Surveyors.

(d) Fellows or Associates of the Royal Institute of British Architects.

Applicants must disclose in writing whether to their knowledge they are related to any Member or Senior Officer of the Joint Committee. Canvassing, directly or indirectly, will disqualify.

Applications, stating age, qualifications, past and present appointments, and present salary, accompanied by the names of two persons to whom reference may be made, must be sent to reach the undersigned by the 5th January, 1947.

E. A. GRIFFITHS,  
Clerk to the Joint Planning Committee.  
Council Offices, West Street, Gorseion.  
2nd December, 1946. 522

# BOROUGH OF WREXHAM. HOUSING ARCHITECT'S DEPARTMENT.

Applications are invited for the following temporary appointments, in connection with a large housing scheme:—

(a) **QUANTITY SURVEYOR.** £600 per annum.

(b) **SENIOR ARCHITECTURAL ASSISTANT.** £575 per annum.

(c) **ARCHITECTURAL ASSISTANT.** £510 per annum.

(d) **ARCHITECTURAL DRAUGHTSMAN.** £375 per annum.

The above salaries are inclusive of the cost-of-living bonus, at present amounting to £59 19s. 3d. per annum.

Further particulars and Conditions of Appointment may be obtained from the undersigned, to whom applications are to be delivered by not later than 30th December, 1946.

Subject to the Conditions of Appointment the Corporation is prepared to provide houses for the successful applicants and to pay their removal expenses.

PHILIP J. WALTERS,  
501

# BOROUGH OF BRIDLINGTON. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

The Town Council invites applications for the appointment of an Architectural Assistant, at a salary in accordance with Grade II of the A.P.T. Division of the National Scale of Salaries (£360-£405 per annum, and cost-of-living bonus). The commencing salary will be fixed according to the qualifications and experience of the successful applicant.

The appointment will be subject (a) to the National Scheme of Conditions of Service, (b) to the Local Government Superannuation Act, 1937, (c) to the successful applicant passing a medical examination, and (d) to termination by one month's notice on either side.

Applicants should be Associates of the R.I.B.A., with good general experience. The Council will if necessary arrange housing accommodation for the successful applicant.

Applications, stating age, qualifications and experience, present and past appointments (if any), accompanied by copies of three recent testimonials, endorsed "Architectural Assistant," must be delivered to me not later than Wednesday, the 8th January, 1947.

Canvassing, directly or indirectly, will be a disqualification, and applicants must disclose in their applications whether to their knowledge they are related to a member of the Council or Senior Officer of the Council.

S. BRIGGS,  
Town Clerk.  
Town Hall, Bridlington.  
29th November, 1946. 534



**COUNTY BOROUGH OF SOUTH SHIELDS.  
APPOINTMENT OF CHIEF TOWN  
PLANNING ASSISTANT.**

Applications are invited for the above appointment. The salary attributable to the post is Grade V (£460-£510), plus bonus. The post is superannuated.

Applications, on forms to be obtained from the undersigned, should be returned not later than 10th January, 1947.

**JOHN REID,**  
*Borough Engineer.*

Town Hall, South Shields.  
26th November, 1946. 509

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

Applications are invited for the undermentioned appointments, in the above Department, at salaries within the Administrative, Professional, and Technical Division of the National Joint Council Scale indicated, namely:—

(a) ASSISTANT ARCHITECTS (2), at salaries within Grade IV, namely £420×£15-£465 per annum;

(b) ASSISTANT ARCHITECTS (3), at salaries within Grade III, namely £390×£15-£435 per annum; and

(c) ASSISTANT ARCHITECT (1), at a salary within Grade II, namely £330×£15-£375 per annum.

In addition to the salaries indicated above there will be paid a cost-of-living bonus, at present £59 16s. per annum. Preference will be given to applicants who are Members of the Royal Institute of British Architects.

The appointments will be subject to the Local Government Superannuation Acts, and the successful candidates will be required to pass a medical examination. Canvassing of Members of the County Council, either directly or indirectly, will be regarded as a disqualification.

Application forms and conditions of appointment may be obtained from the County Architect, Shire Hall, Nottingham, to whom completed applications should be returned as soon as possible.

**K. TWEEDALE MEABY,**  
*Clerk of the County Council.*

Shire Hall, Nottingham. 519

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

Applications are invited for a number of positions in the following grades:—

PLANNING OFFICER (Grade III). Up to £500 a year (basic).

TECHNICAL ASSISTANT. Up to £420 a year (basic).

Commencing rate of pay will be according to qualifications and experience. Cost-of-living addition, at present £78 to £90 a year (men), and £63 to £84 (women), are payable in addition.

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

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

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

Other things being equal, preference will be given to candidates registered under the Disabled Persons (Employment) Act, 1944, and ex-Service men and women will also receive special consideration.

Application should be made to the Architect to the Council, County Hall, Westminster Bridge, S.E.1, for form of application (enclosing stamped addressed envelope), returnable not later than ten days from this date.

Canvassing disqualifies. 983

**BOROUGH OF SURBITON.  
BOROUGH SURVEYOR'S DEPARTMENT.  
APPOINTMENT OF ARCHITECTURAL  
ASSISTANT.**

Applications are invited for the permanent appointment of an Architectural Assistant, at a salary in accordance with Grade A.P.T./II of the National Scheme of Conditions of Service, namely £380 per annum, rising by annual increments of £15 to a maximum of £425 per annum, plus bonus, which is at present at the rate of £59 16s. per annum. The salary stated includes the "weighting" for the London area.

Applicants should be Registered Architects and/or Members of the Royal Institute of British Architects, or hold similar qualifications. Experience in housing work of a local authority would be an advantage.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and to the successful candidate passing a medical examination.

Applications, on forms to be obtained from the undersigned, must be delivered not later than 10th January, 1947.

Canvassing, either directly or indirectly, will disqualify.

**R. H. WRIGHT,**

*Town Clerk.*  
Council Offices, Surbiton. 570

**BOROUGH OF BRENTFORD AND CHISWICK.  
APPOINTMENT OF ARCHITECTURAL  
ASSISTANTS.**

Applications are invited for the appointment of Two Temporary Architectural Assistants, in the Borough Engineer and Surveyor's Department.

Salary £500 per annum, plus cost-of-living bonus, at present £59 16s. per annum. Candidates should be members of the Royal Institute of British Architects (or hold equivalent qualifications), and have had experience in school and house planning and design, and in general architectural work.

The successful candidates will be required to work a reasonable amount of overtime, which will be paid for at the appropriate rates.

Applications, endorsed "Architectural Assistant," stating age, qualifications, present and previous appointments and experience, and accompanied by copies of three recent testimonials, should reach the undersigned not later than 12 noon on Monday, the 6th January, 1947. Canvassing, directly or indirectly, will disqualify.

**JOHN SKINNER,**

*Town Clerk.*

Town Hall, Chiswick, W.4.  
December, 1946. 550

**CRANBROOK RURAL DISTRICT COUNCIL.  
WHOLE-TIME ARCHITECT AND HOUSING  
SCHEME SUPERINTENDING OFFICER FOR  
5-10 YEARS.**

Applications are invited for a whole-time Architect and Superintending Officer to the Council in connection with the Council's Housing Schemes. The term of the appointment will, subject to satisfactory service, be for five years at least, with a possibility up to ten years.

Applicants (who should not be over 45 years of age) must be Associates of the R.I.B.A., and any other qualifications, will be an additional recommendation. Previous experience of supervising and superintending building work under Contract (and particularly the erection of houses) is essential.

Duties of the appointment are:—  
(a) To prepare layouts for site development; plans and types of houses, and the specifications thereof (but not bills of quantities).

(b) To supervise the carrying out of the work under Contract for site development and the erection of the houses, and generally to perform the duties of Superintending Officer, under the Contracts.

(c) To deal with the final accounts arising under the Contracts in conjunction with the Chief Financial Officer.

The salary will be at the rate of £900 per annum, rising by five annual increments of £30 to £1,050 per annum. A travelling allowance for the use of the officer's car in the performance of his duties will be arranged with him.

Applications, stating age, qualifications, and particulars of all experience, together with a copy of three recent testimonials, should be received by the undersigned not later than 28th December, 1946.

Canvassing in any form will disqualify.

By order,

**P. G. BANFIELD,**

*Clerk to the Council.*  
Council Offices, Hill House, Cranbrook, Kent. 514

**CITY OF LIVERPOOL.  
ARCHITECTURAL AND HOUSING  
DEPARTMENT.**

The Council of the City of Liverpool invite applications from qualified persons for the following temporary positions, in the Architectural and Housing Department, at the salaries shown, viz:—

TWO QUANTITY SURVEYORS. Salary £500, plus war bonus.

Applicants for these positions must be competent in measurement of works and checking contractors' accounts, and have professional experience, preferably in Local or Central Government service.

Although the positions are classed as temporary, it is probable that on continued satisfactory service the officers appointed will be absorbed into the permanent establishment of the department at a later date, subject to the Standing Orders of the City Council. The appointments will be determinable by one calendar month's notice on either side. Applications on forms to be obtained from the City Architect and Director of Housing, Blackburn Chambers, Kingsway, Dale Street, Liverpool, 2, accompanied by copies of three recent testimonials, must be addressed to the City Architect and Director of Housing (endorsed with the description of the post applied for, e.g., "Quantity Surveyor"), and should be received on or before the 31st December, 1946. Candidates serving in H.M. Forces abroad need not complete the official form of application, but may submit direct application on or before the date specified, giving particulars of age, education, qualifications and experience, and three names as references. The number of the applicant's release group and probable date of release should also be stated. Canvassing of members of the City Council, either directly or indirectly, will be a disqualification.

**W. H. BAINES,**

*Town Clerk.*  
Liverpool, 2.  
December, 1946. 567

**CITY AND COUNTY OF KINGSTON-UPON-  
HULL.  
APPOINTMENT OF ASSISTANT ARCHITECTS,  
QUANTITY SURVEYORS, AND  
ASSISTANT CLERKS OF WORKS.**

Applications are invited for the following permanent appointments:—

(a) ASSISTANT ARCHITECTS (Grade VI), £535-£600, by annual increments, two of £20 and one of £25, plus bonus.

(b) ASSISTANT ARCHITECTS (Grade V), £460-£510, by annual increments, two of £15 and one of £20, plus bonus.

(c) ASSISTANT ARCHITECTS (Grade III), £390-£435, by annual increments of £15, plus bonus.

(d) ARCHITECTURAL ASSISTANTS (Grade I), £330-£375, by annual increments of £15, plus bonus.

(e) QUANTITY SURVEYORS (Grade V), £460-£510, by annual increments, two of £15 and one of £20, plus bonus.

(f) QUANTITY SURVEYING ASSISTANTS (Grade III), £390-£435, by annual increments of £15, plus bonus.

(g) QUANTITY SURVEYING ASSISTANTS (Grade I), £330-£375, by annual increments of £15, plus bonus.

(h) ASSISTANT CLERKS OF WORKS (Grade I), £330-£375, by annual increments of £15, plus bonus.

The above grades are in the National Scale of Salaries, and the cost-of-living bonus is at present £59 19s. 3d. per annum.

Candidates for the appointment as Assistant Architects should be Members of the Royal Institute of British Architects, and should preferably have had experience in the type of work carried out by Local Authorities, i.e., housing, schools, hospitals, police stations, etc. The Architectural Assistants must at least be student members.

Candidates for the appointment as Quantity Surveyors, and Quantity Surveying Assistants, must be experienced in taking off quantities for large projects, measuring up and checking builders' accounts.

Candidates for Assistant Clerks of Works must be qualified tradesmen, experience in the preparation of reports, and have had some technical training.

The whole of the appointments will be subject to the Local Government Superannuation Act; to one month's notice on either side, and to the successful candidate passing a medical examination. Application forms, which can be obtained from the undersigned, should be sent in completed, together with copies of three recent testimonials, on or before 6th January, 1947.

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

*City Architect.*  
Guildhall, Kingston-upon-Hull. 574

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

Appointment of:—

(a) CHIEF ARCHITECTURAL ASSISTANT.

(b) BUILDING INSPECTOR.

Applications are invited for the following appointments on the established staff of the Borough Engineer and Surveyor's Department:—

(a) CHIEF ARCHITECTURAL ASSISTANT. Salary in accordance with qualifications and experience, and in any case not lower than Grade VI of the A.P.T. Division of the National Joint Council Scales, i.e., £535-£600 per annum, plus £20 London "Weighting," and cost-of-living bonus (at present £59 16s. per annum). Applicants must be Associate Members of the Royal Institute of British Architects, or hold an equivalent qualification. Previous municipal experience, particularly in housing, will be an advantage.

(b) BUILDING INSPECTOR. Salary in accordance with Grade I of the A.P.T. Division of the National Joint Council Scales, i.e., £330-£375 per annum, plus £20 London "Weighting," and cost-of-living bonus (at present £59 16s. per annum). Applicants should indicate whether they have taken or are preparing to take any examination of a recognized professional institution.

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

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

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

Applications, stating age, qualifications, present and past appointments, with dates and salaries, and particulars of experience, accompanied by copies of three recent testimonials, and endorsed on the envelope "Chief Architectural Assistant" or "Building Inspector" (as the case may be), must reach Mr. J. T. W. Peat, F.R.I.B.A., Borough Engineer and Surveyor, Southgate Town Hall, Palmers Green, N.13, by not later than Wednesday, 1st January, 1947.

**GORDON H. TAYLOR,**

*Town Clerk.*  
Southgate Town Hall, Palmers  
Green, N.13.  
December, 1946. 575



## CORPORATION OF LONDON.

## CITY SURVEYOR'S OFFICE.

## APPOINTMENT OF TECHNICAL STAFF.

Applications are invited for the following appointments, in the City Surveyor's Office:—

- (a) ARCHITECTURAL ASSISTANTS. Salary £450, inclusive of consolidated bonus.  
(b) ARCHITECTURAL ASSISTANTS. Salary £350, inclusive of consolidated bonus.

Applicants for appointment "A" should either have qualified or be about to qualify for Associate Membership of the Royal Institute of British Architects or Associate Membership of the Royal Institution of Chartered Surveyors (Building Sub-division).

Applicants for the appointment (b) should be students of the Royal Institute of British Architects, or probationers of the Royal Institution of Chartered Surveyors (Building Sub-division).

Both grades of appointment are for the present on a temporary basis, and will be concerned principally with the reinstatement of war damage to a variety of types of properties. There will be a possibility of establishment in connection therewith, previous training, positions and experience, date when available to commence duties if selected, together with copies of two testimonials.

Previous experience with a Municipal Body is not essential.

Applications, endorsed "Technical Staff," to be made to George Holliday, F.S.I., The City Surveyor, 55-61, Moorgate, E.C.2, giving the following particulars: Service with Armed Forces, age, qualification or intention in connection therewith, previous training, positions and experience, date when available to commence duties if selected, together with copies of two testimonials.

569

## CITY OF LIVERPOOL.

## ARCHITECTURAL AND HOUSING DEPARTMENT.

The Council of the City of Liverpool invite applications from qualified persons for the following temporary positions, in the Architectural and Housing Department, at the salaries shown, viz.:

- (a) ONE ASSISTANT SURVEYOR. Salary £450, plus war bonus.  
(b) ONE ASSISTANT ARCHITECT. Salary £450, plus bonus.

Applicants must be members of the Surveyors' Institution or the Royal Institute of British Architects respectively, and professional experience, preferably in the local government service.

Although the positions are classed as temporary, it is probable that on continued satisfactory service the officers appointed will be absorbed into the permanent establishment of the Department at a later date, subject to the Standing Orders of the City Council.

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

Applications, on forms to be obtained from the City Architect and Director of Housing, Blackburn Chambers, Kingsway, Dale Street, Liverpool, 2, accompanied by copies of three recent testimonials, must be addressed to the City Architect and Director of Housing (endorsed with the description of the post applied for, e.g., "Assistant Surveyor"), and should be received on or before the 31st December, 1946.

Candidates serving in H.M. Forces Broad need not complete the official form of application, but may submit direct applications on or before the date specified, giving particulars of age, education, qualifications and experience, and three names as references. The number of the applicant's release group and probable date of release should also be stated.

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

W. H. BAINES, Town Clerk.

Liverpool, 2, November, 1946. 524

## CITY OF LINCOLN.

## CITY ENGINEER'S DEPARTMENT. APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment, in the City Engineer's Office.

The salary will be £460, rising to £510 per annum, plus cost-of-living bonus, in accordance with Grade V A.P.T. of the National Scale of Salaries and Conditions of Service.

Candidates should be Associate Members of the Royal Institute of British Architects (or hold equivalent qualifications), and have good experience in general architectural work, including school planning and design, and in the preparation of working drawings and specifications.

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

Forms of application can be obtained from, and should be returned to, the City Engineer and Surveyor, Corporation Offices, Silver Street, Lincoln, not later than Saturday, 11th January, 1947.

J. H. SMITH, Town Clerk.

Corporation Offices, Lincoln. 7th December, 1946. 579

## PONTYPRIDD URBAN DISTRICT COUNCIL.

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT, at a salary of £435 per annum—the maximum of A.P.T., Grade III, of the National Scale of Salaries—plus bonus, at present £59 16s. per annum.

Preference will be given to candidates who have passed either the Intermediate or Final Examinations of the R.I.B.A.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and to the successful candidate passing a medical examination.

The person appointed will be required to devote the whole of his time to the service of the Council, and the appointment will be subject to one month's notice on either side.

Applications, stating age, present and previous positions, technical training and qualifications (with dates) and concise particulars of experience, together with the names and addresses of two persons to whom reference may be made, must be delivered, endorsed "Architectural Assistant," to the undersigned, to arrive not later than Thursday, the 2nd day of January, 1947.

Canvassing will be a disqualification, and candidates must disclose any relationship to members of the Council.

H. LEONARD PORCHER,

Clerk of the Council.

Municipal Buildings, Pontypridd. 7th December, 1946. 556

## COUNTY BOROUGH OF DONCASTER.

## ESTATES AND HOUSING DEPARTMENT.

## ARCHITECTURAL ASSISTANT.

Invitations are invited for the above-mentioned appointment, on the permanent staff.

Candidates must have had experience in domestic architecture, and have passed the intermediate examination of the Royal Institute of British Architects. Preference will be given to applicants who have had previous experience in layout, design, and execution of housing schemes.

The commencing salary will be £360 per annum, rising by annual increments of £15 to £405 per annum, subject to satisfactory service, plus a cost-of-living bonus, at present £59 16s. per annum.

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

Canvassing in any form will be a disqualification.

Applications, stating age, qualifications and experience, accompanied by copies of not more than three recent testimonials, and endorsed "Architectural Assistant," must be delivered to the undersigned on or before Monday, 30th December, 1946.

H. S. ESSENHIGH,

Town Clerk.

1, Priory Place, Doncaster. 5th December, 1946. 557

## NORTH RIDING OF YORKSHIRE COUNTY COUNCIL.

## COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the under-mentioned appointments on the permanent staff. Salaries in accordance with the National Joint Council's Scales, where applicable, plus cost-of-living bonus (at present £59 16s. per annum).

- (a) DEPUTY COUNTY ARCHITECT. £700, by annual increments of £50 to £800 per annum.

- (b) SENIOR ASSISTANT ARCHITECT. A.P.T., Grade VI (£535-£600).

- (c) ASSISTANT ARCHITECT. A.P.T., Grade IV (£420-£465).

- (d) JUNIOR ASSISTANT ARCHITECT. A.P.T., Grade I (£330-£375).

- (e) JUNIOR ASSISTANT ARCHITECT. General Division (salary according to age).

Candidates in respect of (a), (b) and (c) must have qualified as Associate Members of the Royal Institute of British Architects, and (d) and (e) must have had experience in the Architect's Department of a local authority.

The following conditions apply to appointment (a):—The person appointed will be required to provide and maintain a car. Travelling and subsistence allowances will be paid on the Council's scale. The appointment will be terminable by three calendar months' notice on either side. The appointment covers the whole of the architectural work of the Council, with the exception of that of the Education Committee.

All the above appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and to a satisfactory medical examination. Appointments (b), (c) and (d) will be terminable by two months' notice in writing on either side, and (e) by one month's notice.

Forms of application are not being issued, but further information may be obtained from J. Catchpole, A.R.I.B.A., County Architect, County Hall, Northallerton. Applications, stating age, qualifications and experience, together with particulars of present and previous appointments, and the names and addresses of three persons to whom reference can be made, must be delivered to the undersigned, not later than Tuesday, the 7th January, 1947.

Canvassing, directly or indirectly, will be deemed a disqualification, and candidates should state, in writing, whether they are related to any member of the Council, or the Head of any Department or his standing Deputy.

H. G. THORLEY,

Clerk of the County Council.

County Hall, Northallerton. 536

## Amended Advertisement.

## BOROUGH OF ROYAL LEAMINGTON SPA. DEPARTMENT OF DIRECTOR OF HOUSING.

## APPOINTMENT OF SENIOR ASSISTANT ARCHITECT.

Applications are invited for the above appointment, in accordance with Grade IV of the A.P. & T. Division, £420, rising by annual increments of £15 to £465, plus cost-of-living bonus. Housing accommodation will be made available to the successful applicant.

The appointment will be on the unestablished staff of the Corporation, terminable by one calendar month's notice on either side.

Candidates must be qualified Architects, and should have had a thorough training in design and construction, and be experienced in the preparation of sketch plans, working drawings and specifications, particularly in relation to flats, housing estates, and buildings related thereto.

Applications must be made on the appropriate forms, which can be obtained at the address given below, and must be returned, together with not more than three testimonials, before 12 noon on Tuesday, the 31st December, 1946, endorsed "Senior Assistant Architect."

H. FEDESKI, A.R.I.B.A., Dip.T.P.,

A.M.T.P.I.,

Director of Housing.

Town Hall Annexe, 3, Regent Grove, Leamington Spa. 10th December, 1946. 576

## COUNTY BOROUGH OF CROYDON.

## BOROUGH ENGINEER'S DEPARTMENT.

## ARCHITECTURAL DIVISION.

## VACANCIES ON PERMANENT STAFF.

Applications are invited to fill the under-mentioned permanent appointments, in the Borough Engineer's Department. The persons appointed will carry out their duties under the Principal Assistant Architect:—

ONE GENERAL ASSISTANT, to be a Registered Architect, with a good general knowledge of the architectural work undertaken by a Local Authority. Wide housing experience is essential. Salary scale: Grade A.P.T., IV, £440 × £15-£485, plus cost-of-living bonus, at present £59 16s. per annum.

ONE ARCHITECTURAL DRAUGHTSMAN, to be a recognized Student in Architecture, with at least 3 years' local Government drawing office experience, and possessing a high standard of draughtsmanship.

Salary scale: Grade A.P.T., I, £350 × £15-£395, plus cost-of-living bonus, at present £59 16s. per annum.

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

Forms of application may be obtained from the Borough Engineer, Town Hall, Croydon, and should be returned to him not later than 31st December, 1946.

Canvassing will disqualify.

S. TABERNER,

Town Clerk.

Town Hall, Croydon, Surrey. December 3, 1946. 572

## CHICHESTER RURAL DISTRICT COUNCIL.

## ENGINEER AND SURVEYOR'S DEPARTMENT.

## APPOINTMENT OF CHIEF ENGINEERING AND SURVEYING ASSISTANT.

The Rural District Council of Chichester invites applications from qualified Engineers and Surveyors, for the established post of Chief Engineering and Surveying Assistant, with salary in accordance with Grade V A.P.T. Division of the National Scale of Salaries—£460 to £510, plus cost-of-living bonus, at present £59 16s. per annum.

The appointment will be subject to:—

- (a) The National Joint Council's Scheme of Conditions of Service.

- (b) The Local Government Superannuation Act, 1937.

- (c) A medical examination by the Council's Medical Officer of Health.

- (d) One month's notice of termination by either side.

Applicants should have experience in the preparation of schemes of water supply, sewerage and sewage disposal, housing estate development, and the general supervision of a large technical staff, and must possess one of the following qualifications by examination:—

- (1) A.M.I.C.E.

- (2) M.I.M. & Cy. Engrs.

- (3) P.A.S.I.

- (4) A.M.I.Mech.E.

Associate Membership of the Town Planning Institute would be an advantage, but is not essential.

The person appointed will be required to provide and maintain a car, for which a travelling allowance, for use on official duties, will be paid in accordance with the Council's scale.

Applications, on forms to be obtained from J. K. Lawson, F.S.I., Engineer and Surveyor to the Council, East Pallant House, Chichester, must be delivered to the undersigned, suitably endorsed, not later than Saturday, the 11th January, 1947, accompanied by copies of three recent testimonials.

LEONARD BAILEY,

Clerk to the Council.

Pallant House, Chichester. 577

**Amended Advertisement.**

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

Applications are invited for the appointment of an Architectural Assistant, in the Engineer and Surveyor's Department, at a salary in accordance with the National Joint Council's Scale, Grade IV, A.P.T. (£420-£465), plus cost-of-living bonus (at present £59 16s. per annum).

The appointment is of a temporary nature to cover a period of approximately four years, and will be terminable by one month's notice in writing on either side.

Candidates should have had a good knowledge of the preparation of plans, specifications and quantities; experience in Local Authorities' Housing Schemes and the design of municipal buildings will be an advantage, and preference will be given to those holding a recognized qualification.

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.

Further particulars regarding the appointment may be obtained from Mr. Henry Nurse, F.R.I.B.A., Engineer and Surveyor to the Council.

Applications, stating age, qualifications and experience, and accompanied by copies of not more than three recent testimonials, should be endorsed "Architectural Assistant," and be received by the undersigned not later than 10 a.m. on Monday, 30th December, 1946.

Canvassing, directly or indirectly, will disqualify.

EDWIN JONES,  
Clerk of the Council.

Council Offices, Irlam.  
11th December, 1946. 582

**COUNTY BOROUGH OF DONCASTER  
EDUCATION COMMITTEE.  
APPOINTMENT OF ASSISTANT EDUCATION  
ARCHITECT.**

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

Salary in accordance with Grade A.P.T., VI, of National Joint Council Scales (£535-£20-£220-£250-£600), plus bonus (at present £59 16s.).

The post will be superannuable. Conditions of appointment obtainable from the undersigned on receipt of stamped addressed foolscap envelopes. Applications should be sent as soon as possible.

V. H. HOSKIN,  
Chief Education Officer.

Education Office, Wood Street, Doncaster.  
11th December, 1946. 581

**Competition**

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

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(b) Assessor: Mr. T. Cecil Howitt, D.S.O., F.R.I.B.A.

(c) Premiums: 1st, £500; 2nd, £250; 3rd, £150.

(d) Last date for questions: 28th February, 1947.

(e) Last date for submitting designs: 30th June, 1947.

(f) Conditions of the Competition may be obtained on application to the Chief Education Officer, Education Offices, Town Hall, Peterborough.

(g) Deposit £2 2s. (two pounds two shillings).

LESLIE TAIT,  
Chief Education Officer. 566

**Architectural Appointments Vacant**

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

**ARCHITECTURAL DRAUGHTSMAN** required, Maidenhead; capable of working up from sketches, preparing details, surveys, etc. Send details of experience and salary required to Box 573.

**JUNIOR DRAUGHTSMAN** required in Maidenhead Architect's Office. Send particulars of experience and salary required to Box 572.

**HENRY C. SMART & PARTNERS**, Architects, 120, Moorgate, E.C.2, require Assistant; working drawings, details, surveys, etc. Write, stating age, experience, and salary required. 913

**ASSISTANT ARCHITECTS** required in Manchester Office; should be experienced in commercial and industrial work; good draughtsmen, with sound knowledge of general construction; salary up to £400 per annum, according to qualifications (plus war bonus of £74); good prospects of promotion for competent assistants; successful candidates will be required to pass a medical examination for entry into compulsory superannuation scheme. Applications, stating educational qualifications, experience, and age, with copies only of testimonials, to Box 980.

**ARCHITECTURAL ASSISTANT** required by East Coast Brewery Company; experience in working drawings and surveys; experience in quantity surveying preferable, but not essential; good salary for suitable applicant; accommodation may be found. Reply, giving full details of experience, to Box 987.

**ASSISTANTS AND JUNIOR ASSISTANTS** wanted in busy Mayfair Architect's Office. Apply to Alan A. Briggs, F.R.I.B.A., 15, Curzon Street, London, W.1. Tel.: GROsvenor 4151. 310

**EXPERIENCED ASSISTANT** required, with expert knowledge of design, and the preparation of show drawings and sketches for clients; constructional knowledge an advantage, but not essential. Write, stating experience and salary required, to Louis de Soissons, A.R.A., 21, St. John's Wood Park, London, N.W.8. 513

**YOUNG, qualified, ASSISTANT CIVIL ENGINEER** required for private office in West Norfolk; must be good draughtsman, and have sound experience of reinforced concrete construction, roads and sewers; salary £400 to £500 per annum, according to qualifications. Reply, with full details, to Box 520.

**COMPETENT JUNIOR ARCHITECTURAL DRAUGHTSMAN** required for office in West Norfolk; salary £300 to £400 per annum, according to experience. Reply, with full details, to Box 521.

**SHOPFITTING DRAUGHTSMAN** required; thoroughly experienced coloured perspective drawings and scale layout work, with good knowledge of building construction; good prospects, with progressive firm, West London. Full particulars and salary expected. Box 532.

**ARCHITECT**, Central London, requires **HEAD ASSISTANT**; good measuring-up and draughtsmanship essential; state age, experience, and salary required. Box 547.

**WANTED**, for a Railway Civil Engineer's Office in Edinburgh, **TEMPORARY ARCHITECTURAL ASSISTANTS**; capable of preparing working drawings from rough sketches, estimating and supervising works in progress. State age, qualifications, and salary expected, to Box 548.

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**CAPABLE ARCHITECT** required immediately interesting work. Apply Law 2, Waterloo Road, Wolverhampton

**NOTTINGHAM ARCHITECTS' ASSOCIATION** progressive position for keen according to qualifications Box 552.

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**SENIOR ARCHITECTURAL** required; must be thorough taking full responsibility for work. Write, state full particulars, a Gallanagh & Nicholls, L.A.I. Architects, Waterloo Hotel Somerset.

**3 VACANCIES** occur for D. Southsea, Branch Office. **SURVEYORS** with firm required for London Office. Experience, with salary required. Nightingale & Ambrose, 27, J. Adelphi, London, W.C.2.

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**CAPABLE ASSISTANTS** required, with good general experience, in the Architect's department of a multiple company in the Midlands; permanency and good prospects to suitable applicants. Apply, stating age, experience, and salary required, to Box 578.

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