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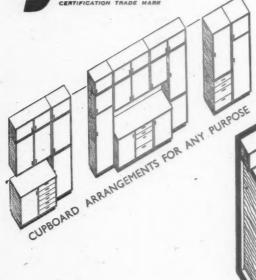
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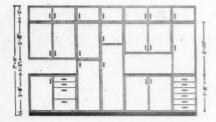
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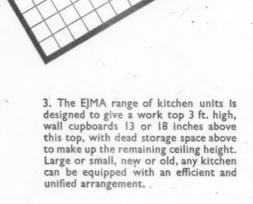




Each single unit is Ift. 9in. wide.
 Each double unit is 3ft. 6in. wide.
 Each wall unit is Ift. 0in. deep.
 Each floor unit is Ift. 7in. deep.



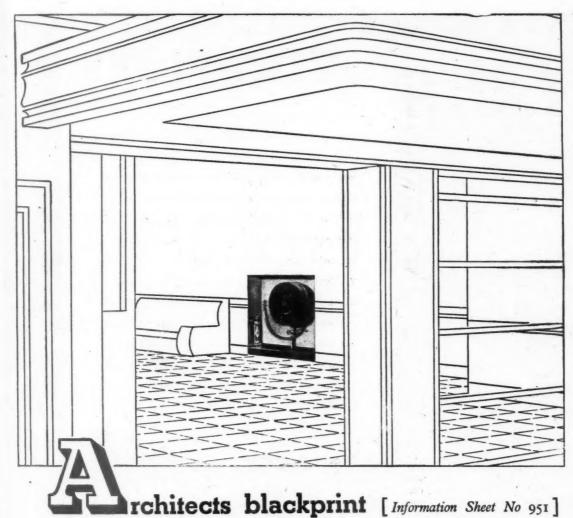
 This diagram shows how the heights of the various units have been arranged to give the fullest range of possible combinations for units.



THE

ENGLISH JOINERY MANUFACTURERS ASSOCIATION

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on application

The Pyrene "Everyway" Hose Reel and the Conquest Soda Acid Fire Extinguisher-each Is pre-eminent in its class-can be accommodated in a recess 14in. deep. Full dimensional details are given in Information Sheet 951 (105 Revised). New building calls for modern equipment and copies of the revised Information Sheet will therefore gladly be sent on request.

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Aluminium alloy extrusions are a most important addition to the traditional materials of construction. No other process can produce the intricate shapes that eliminate the complication and weight of riveted rolled sections. Extrusions can be made for stressed shapes such as spar booms for aircraft, or for non-stressed shapes like casement sections. They come in long lengths for hand-rails, or can be cut into slices for door furniture. We shouldn't even think it fanciful—or impracticable—if complicated hollow sections were specified. We can produce these, too! The uses for extrusions are legion, and many are as yet unsuspected. If you have a construction problem drop a line to our Development Department. Maybe you will find the answer . . . an extruded section.

The Shapes for Things to Come

BIRMETALS



advantages big - with big

built in, by PRESTCOLD

This built-in Prestcold refrigerator, as shown, installed in the kitchen designed by the Wessex Electricity Co., has the following important advantages:

Storage capacity of approximately 4½ cubic feet, which will hold all the perishable foodstuffs for a family of four.

Larder space rendered unnecessary. Dry goods and non-perishable foodstuffs would be kept in kitchen cupboards.

Waist-high door, allowing access to interior without stooping. Height adaptable by varying position of supporting frames.

It can be built into kitchen fitments with cupboard space above and below it.

Design provides for adequate ventilation of mechanism without the necessity for special airbricks or ducting.

Ice making and 'cold cooking' facilities.

Most important too, is the fact that this Prestcold refrigerator provides the food storage temperatures necessary for the proper safeguarding of perishable foods - for instance 35°F for fresh fish and poultry; 40°F for milkand even the lower temperatures needed to store the frozen foods which will be available later on. In addition, it will be most economical in current consumption, using only one unit a day.

PRESTCOLD Kefrigeration

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Centre illustration: Housing for Manchester Corporation. Director of Housing: John Hughes, B.Arch., F.R.I.B.A.

Bottom illustration: Flats at Northampton. om illustration: Plats at 1907 statements.

Architects: Sir John Brown and A. E. Henson,
FF/R.I.B.A.

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Information on REINFORCED CON

No. 5 MIXING WATER

The water used in mixing concrete must be clean and free from chemical and/or organic impurities. Generally water which is fit for drinking is suitable for mixing concrete. Impure water may lead to slow setting and low strength concrete. Sea water should not be used when fresh water is available. The quantity of water required depends on the richness of the mix, the slump required, and is reduced if the sand is damp. As a general guide a 1:2:4 mix using dry materials would require about 6 gallons of water for 1 cwt. bag of cement. It is important that the quantity of water used should be the minimum to produce a thoroughly mixed and workable concrete. Excess water reduces the strength of the concrete. The most convenient practical method of checking the water content is the "slump test".

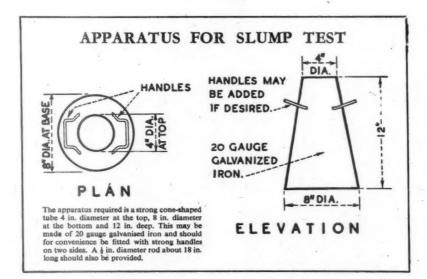
The mould used for this test is in the form of a frustum of a cone 12 inches high, bottom diameter 8 inches and top diameter 4 inches, fitted with foot plates and handles. The inside of the mould must be smooth and thoroughly clean, dry and free from set cement.

The mould is placed on a board and filled with concrete in four successive layers, each one being rodded 25 times with

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a bullet ended \(\frac{5}{6} \) inch steel rod, 2 feet long. After striking off the top so that the mould is exactly filled, the mould is removed by raising vertically. The moulded concrete is then allowed to subside, the amount of subsidence in inches being known as the "slump".



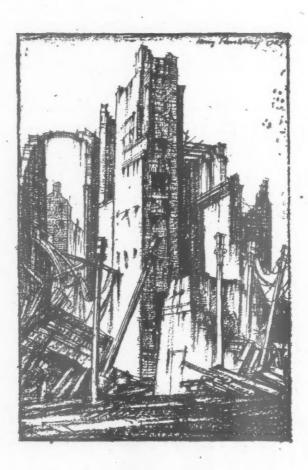
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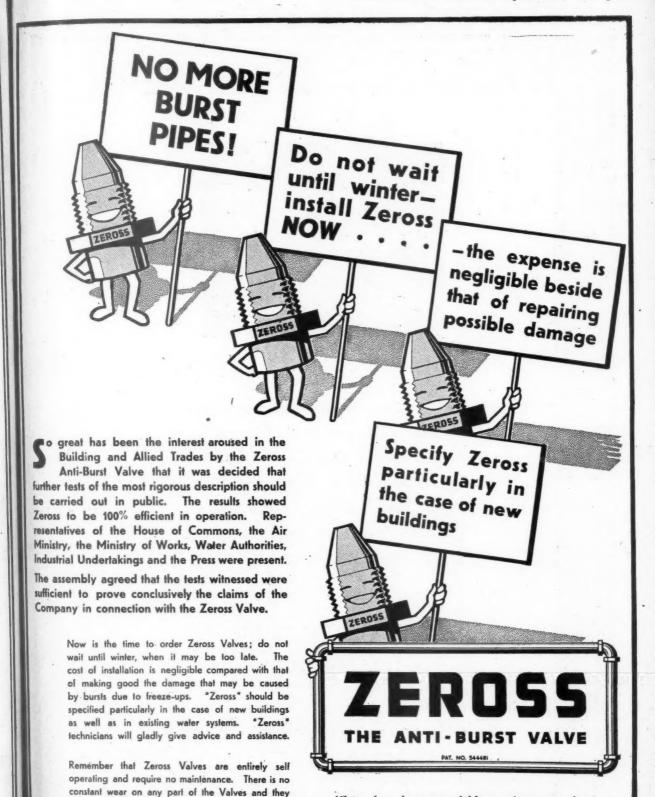
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parts are not normally in contact with the water.

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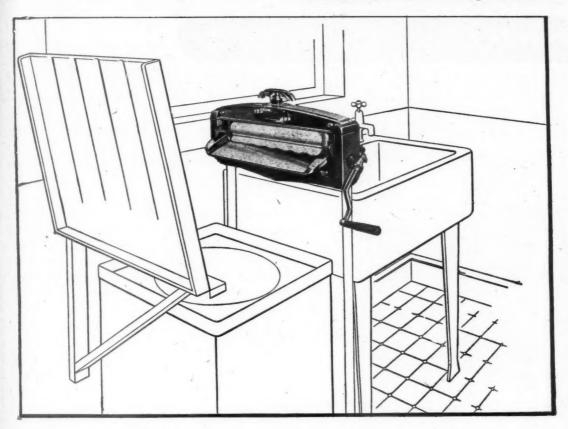
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She dreamed

and in her dream time turned back thirty years. She was a housewife, busy with the weekly wash. With aching back and heated weary face she toiled between a sink she had to bend herself in two to reach, a copper boiling over a roaring roasting fire, and a monstrous mangle she barely had the strength to turn.

She woke

and there she was — a housewife, but of the pattern of today and tomorrow. With the weekly wash before her, nothing but the normal work of a normal day. With her pleasant kitchen, her just-right sink, her easy to use wash-boiler and her rubber roller wringer. What need had she to fear a back that ached, or a skin shrivelled by heat and exhaustion?

Modern woman demands a civilised standard for the kitchen where the biggest part of her work is performed. A survey undertaken to ensure that her standards are met has laid down what are the minimum requirements—the size and

height of sink, the type of draining-board, the presence of wash-boiler. And always—room for a rubber roller wringer. The housewife herself will tell you which wringer—the Acme 55—the BEST.

To plan a modern house without a modern kitchen would be like building a ship without an engine room. To fix the kitchen without equipment for the home laundry would be leaving the engine room bare of engines.

Ministries and local authorities have accepted and approved surveys which regard conditions for the home laundry as vital. Which emphasises that room should always be made in the sink-unit for a rubber roller wringer, which halves a woman's work and takes the nightmare quality out of wash-day.

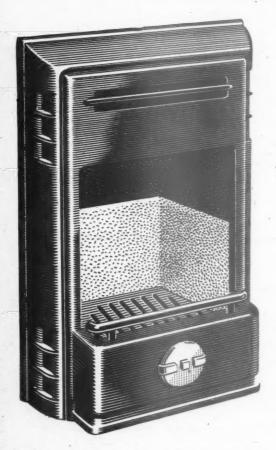
If your work brings you any problem in connection with the fixing of wringers, please get in touch with us for, advice or assistance. We will have much pleasure in

helping you.

NEW-FASHIONED VISIBLE HEAT

EXAMPLE

A.I "PROJECTOR" HEATING UNIT



SIZES: Overall sizes: 25% high x 18% wide x 12" fire.

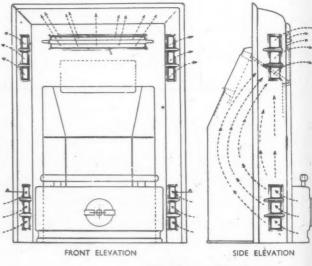
Minimum size of existing fire opening required: 22" high x 16" wide.

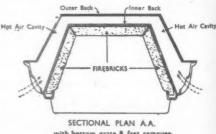
Clearance from underside of projecting lintel (if any) over fire opening to level of hearth must be at least 26".

FINISHES: Ebony black or coloured vitreous enamel, or "Alisheen" de Luxe enamel.

ADVANTAGES: The unit can be fitted to most existing fireplaces. It gives more heat per unit of fuel, and cuts down fuel consumption by approximately 40% over the ordinary coal fire.

SPECIFICATION: This is a self-contained interior grate, with double casing, which gives warmth on the convection principle. By carefully arranged air inlets in the sides and top of the unit, the heat from the fire is projected over the whole area of the room. The path of this heated air is indicated by dotted lines in the accompanying diagrams.





with bottom grate & fret removed

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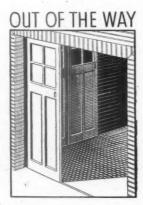


THAT IS THE QUESTION and when it comes to planning doors it needs extra careful thought-because there are few things more precious than space when you are working in confined quarters. A door that's hinged is a door that needs a lot of room; but with a sliding door it's different. If it's fitted with King Door Gear a touch of the hand takes it out of the way, gliding easily and quickly to nestle snugly against the wall, completely and unobstrusively out of the way.

It is true to say that in post-war building every inch of space will be of the utmost value; take advantage of every scrap of it—when you can, and how you can. This is where King Door Gear comes in—or to be more precise slides along. Doors that slide mean doorways that allow free passage all around them.

For ante rooms, cloak rooms, garages, lifts, etc., and places where space is limited or traffic congestion is likely to occur, sliding doors are the perfect application.

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BUILD WITH A STEEL FRAME





Painting by Doris Zinkeisen

Present Age

It is no new thought that security and freedom from want in old age should be the concern of established industry. As long ago as 1882 the Samuel Fox Stocksbridge Benefit Fund was founded to provide for retired employees. This fund continues to-day as do provisions at other branches. With time it became desirable to adopt more liberal policies. In 1935 and 1936 four voluntary contributory pension schemes were launched to cover the administrative and office staffs, establishment personnel, foremen and all other workers. They formed the largest comprehensive project of its kind ever established, and, so far, the only one within the industry incorporating all the workpeople. The schemes are

generous in their scope and impose a heavy annual liability on the company, to which is now added the responsibility for the contributions of its 5,072 employees serving in H.M. Forces. These insurances are an instance of the initiative of enlightened management in social reform, and are tangible proof that this organisation has a sincere and profound appreciation of human needs and aspirations. The community depends on steel to satisfy its necessities and provide its amenities. Thus it is of national interest that the development and economic stability of the industry should provide steady employment and social security for the company's employees.



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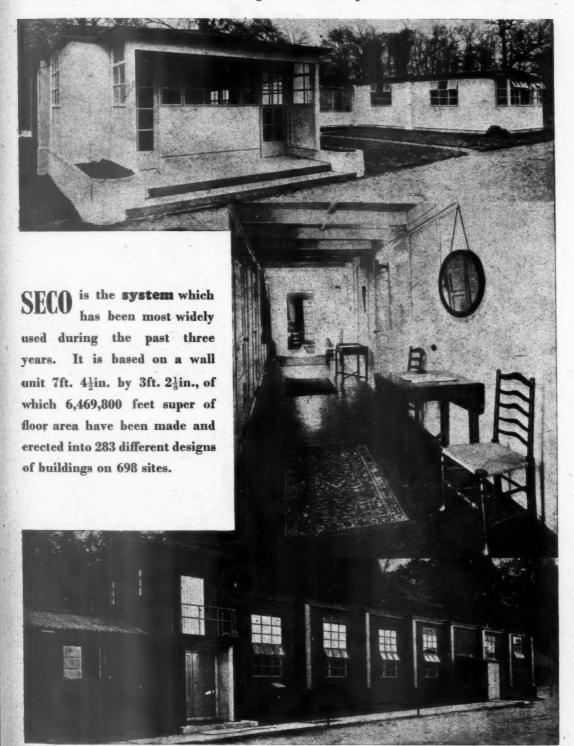
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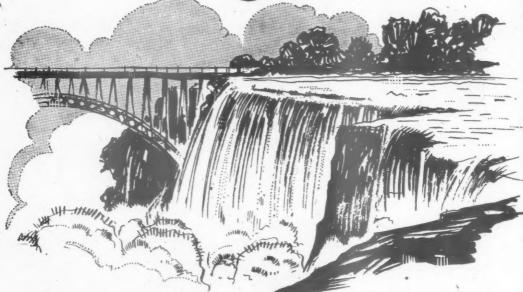
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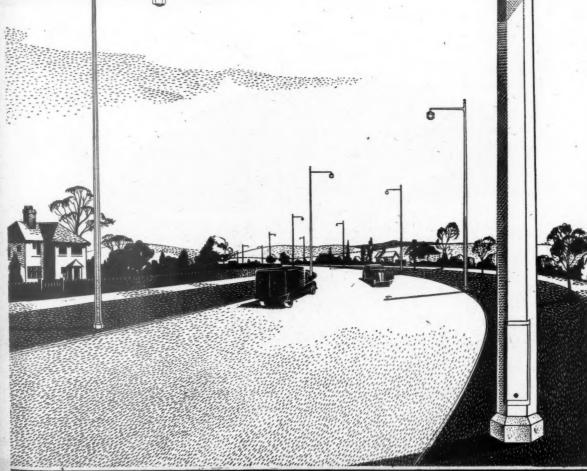


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Mr. B. E. Elford, the Chairman, made the following statement at the Thirty-seventh Ordinary General Meeting of the Company held in London:

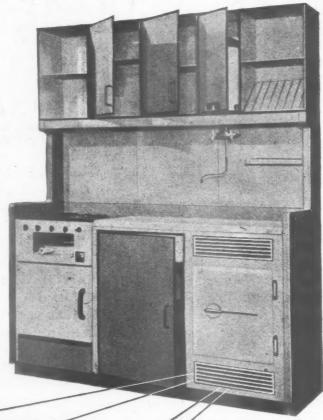
"Since my published statement was written much has happened. The second world war is at an end. But after the chaos of the last six years no one expects the mere ending of war to bring conditions of peace. We must fight for that as hard as we fought to win the war itself. In this country conditions are full of promise: accelerated demobilization from the Services plus the immediate release of people from munitions should, and we hope will, enable us to recruit the labour we need so urgently. The demand for the things we make is very great, both for this country and abroad. For the moment it is an embarrassing demand. Our three main products, white glazed tiles, coloured glazed tiles (for the present in a restricted range of colours) and floor tiles, which we are peculiarly fitted to make on account of our geographical position, will all be in intensive demand for the vast housing programme, and for the new schools, factories and public buildings, which must be built along with the houses. All through the war our remaining staff has concentrated on the production and distribution of these products, and I would like to emphasize again the tribute we all must pay to the loyal and conscientious service of our employees, particularly our colleagues in our twice blitzed London Office, who carried on so efficiently throughout. To them as to our many colleagues in the Services our heartfelt thanks are due and rendered.

Our concentration on the more prosaic and utilitarian side of our craft in no degree implies departure from the high standards of quality which Carters have and always will maintain. Naturally, we look forward to the time when our more decorative work, of which there is so much to our credit in pre-war architecture, will again be in evidence, but until then the quality of our production in the three utilitarian products I have mentioned will adequately maintain our reputation as amongst the leading glazed and floor tile manufacturers in the country. We can claim with confidence that we have already adapted ourselves to the new conditions and altered types of demand, enabling us to look forward to a future which we like to think will bring prosperity and happiness to those concerned—whether as workers or shareholders—in this fascinating business in which we play our several parts

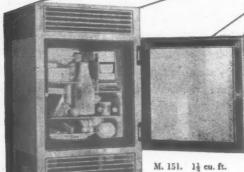
Two important subsidiaries, Art Pavements and Decorations Ltd.—in the front rank of Marble and terrazzo workers—and Carter Stabler & Adams Ltd.—making Poole pottery, which has won such a deservedly high reputation—have been working through the war under very similar handicaps to our other businesses but are ready, with the return of labour, to take their old place and improve upon it."

The Report and accounts for the year ended 31st March 1945 were unanimously adopted.

Kitchen equipment must satisfy the housewife's needs and, by its adaptability, meet the requirements of the kitchen planners. That is why Electrolux 'built-in' refrigerators are so popular. The M.151 shown, fulfils the needs of the average small family, and like all Electrolux 'built-in' cabinets, fits in to any kitchen design. Moreover, it is noiseless, has no moving parts, and does not interfere with wireless reception.



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building is to go forward at the speed which the nation demands, new ways of planning and of construction will be needed. Whatever may be the scope and shape of the building programme, structural steel will have an important contribution to make.

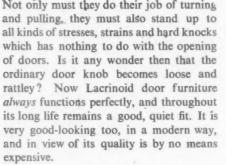
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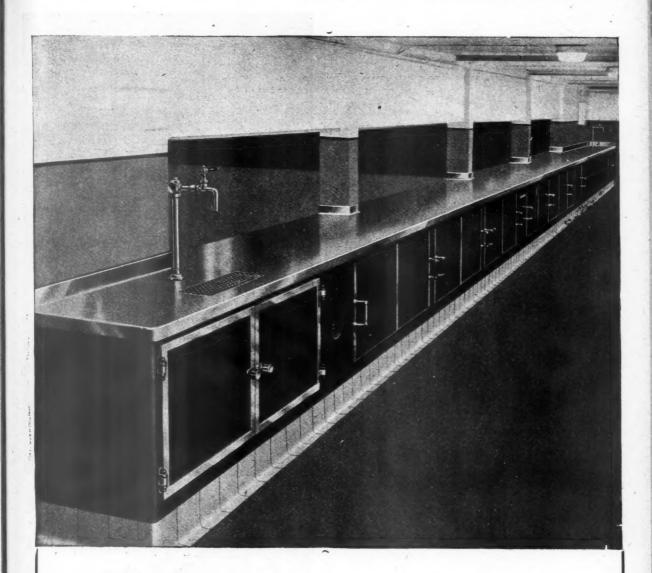




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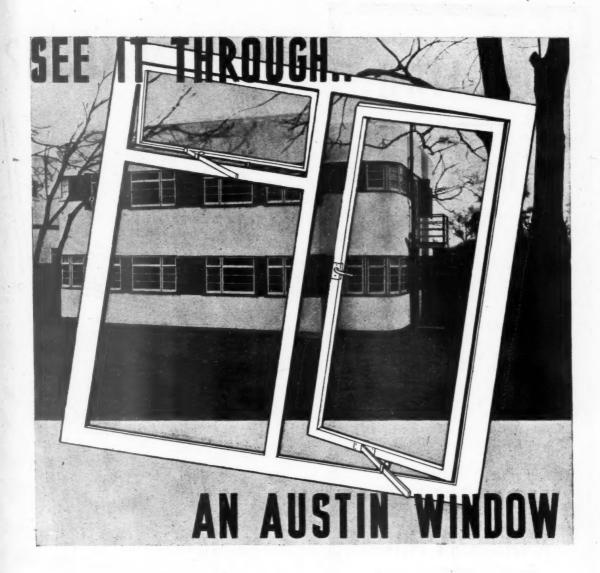
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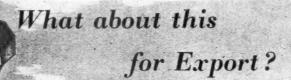
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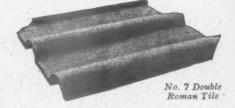
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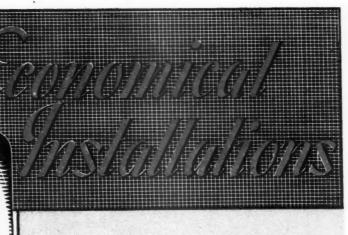


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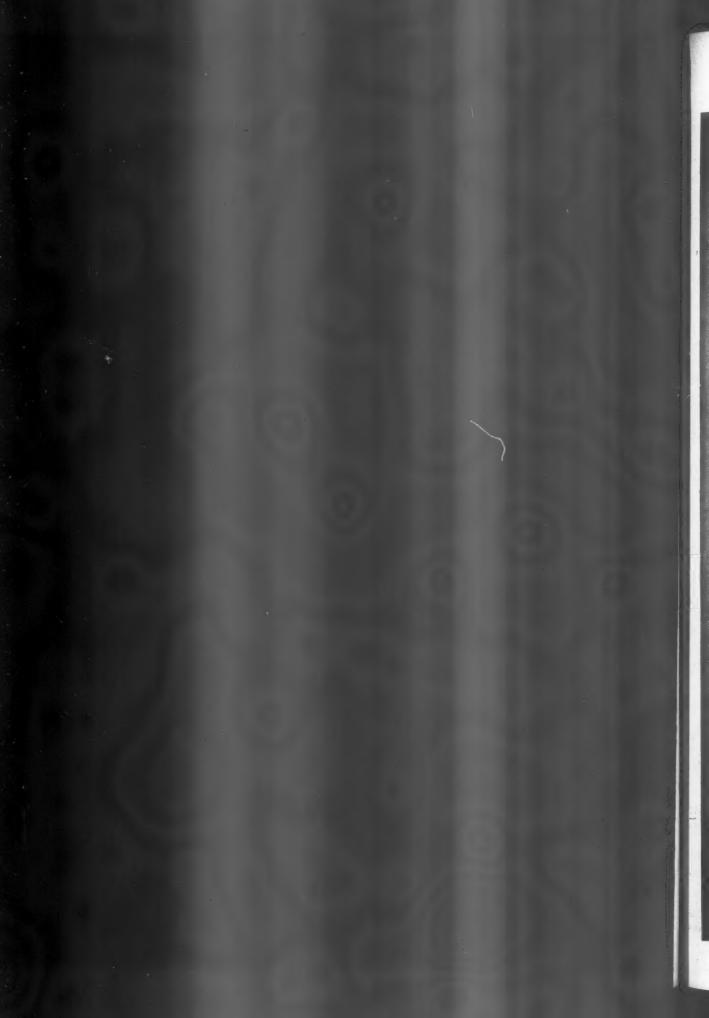
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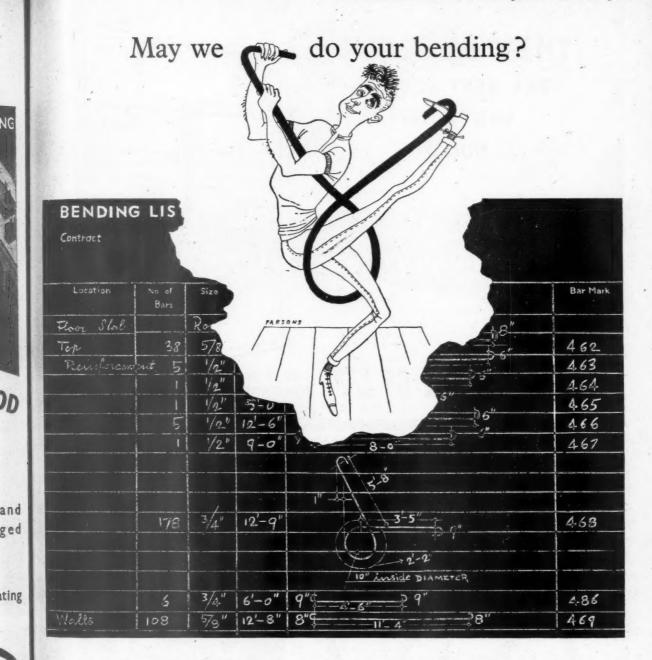
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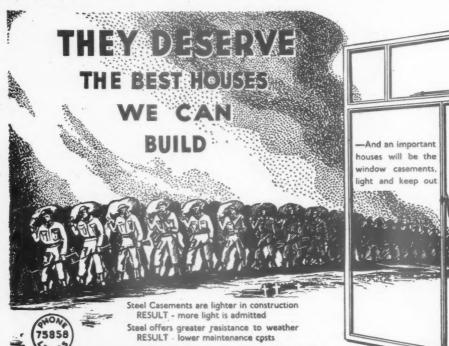
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THURSDAY,

In common with every other periodical this JOURNAL is rationed to a small part of its peacetime needs of paper. Thus a balance has to be struck between circulation and number of bages. We regret that unless a reader is a subscriber we cannot guarantee that he will get a copy of the Journal. Newsagents now cannot supply the Journal except to a "firm order." Subscription rates: by post in the



U.K. or abroad, £1 15s. od. per annum. Single copies, 9d.; post free, 11d. Special numbers are included in subscription; single copies, 1s. 6d.; post free, 1s. 9d. Back numbers more than 12 months old (when available), double price. Volumes can be bound complete with index, in cloth cases, for 15s. each; carriage 1s. extra. Goods advertised in the JOURNAL and made of raw materials now in short supply, are not necessarily available for export.

FOR SEPTEMBER OCTOBER AND NOVEMBER

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 their initials as given in the glossary of abbreviations on the front cover.

B IRMINGHAM. Modern Building Tools Exhibition. At Big Top Site, New Street, (Sponsor, MOW.) Oct. 9-13 GLASGOW. Public Association Exhibition. Lighting Engineers' (See page III.)
H OMERTON. NALGO Exhibition. AND Homerton College. (Sponsor, BIAE.)
SEPT. 24-OCT. 8 SEPT. 11-14

ILKLEY. NALGO Exhibition. At Grammar School. (Sponsor, BIAE.) NALGO Exhibition. At the

Ост. 1-8 UVERPOOL. Modern Building Tools Exhibition. (Sponsor, MOW.) SEPT. 11-15

LONDON. NALGO Exhibition. At the YWCA. (Sponsor, BIAE.) OCT. 6-13

NALGO Exhibition. At the Geffrye Museum, Kingsland Road, E. (Sponsor, BIAE.) DEC. 3-15 John Summerson. Russian Architecture: The Historical Background. First of a series of introductory lectures to the study of Soviet architecture. At the RIBA, 66, Portland Place, W.1. Chairman, Percy Thomas, P.R.I.B.A. Tickets from SCR Archi-Thomas, P.R.LBA. Tickets from SCR Architecture Group, 98, Gower Street, W.C.1.
Admission free to members of the group, non-members 1s. 6d. 6.30 p.m. SEPT. 25
Dr. F. Klingender. Socialist Realism:
The Esthetics of Soviet Architecture.
Second of a series of introductory lectures to the study of Soviet architecture. At the RIBA, 66, Portland Place, W.I. Chairman, E.J. Carter. Tickets from SCR Architecture Group, 98, Gower Street, W.C.1. Admission free to members of the Group, non-members 1s. 6d. 6.30 p.m. Oct. 22
MANCHESTER. Manchester and Dis-

MANCHESTER. Manchester and District Planning Exhibition. At the City Art Gallery, Mosley Street. The exhibition is the wesult of research by engineers, architects, surveyors and other experts, working together under the direction of R. Nicholas, the City Surveyor and Engineer of Marchester and Honorary Surveyor to of Manchester, and Honorary Surveyor to the Manchester and District Regional Com-mittee. Over two years ago a start was made with a very small planning staff, and although the City Council approved of a large extension of this staff, great difficulty was encountered in obtaining the services of efficient and capable assistants. partial completion of the air raid shelters programme released a number of technical assistants for planning, but the majority of out during the past 18 months. At the peak of the output the staff consisted of 29 technicians and 20 draughtsmen working a thick because 20 the Ott. high pressure on the City Plan, whilst 10 technicians and 8 draughtsmen were similarly engaged on the Regional Plan. Information has readily been given by Regional Plan.

other Departments of the Corporation and by the Surveyors to the other 13 constituent authorities of the Regional Committee. The City Surveyor was authorized to prepare and publish these tentative plans, but the constructive criticism of individuals and all sections of the community is sought, in order that the respective authorities may be in a better position to gauge the requirements and wishes of the public when official schemes are adopted. (Sponsor, Manchester City Council.)

SEPT. 6-8

Architects' Planning Conference. At Manchester Art Gallery, Morley Street, in connection with the Manchester Plan. Principal speakers: W. H. Ansell on The Architect's Part in Town and Country Plan-Manchester, on The City Engineer of Manchester, on The City of Manchester Plan, and L. H. Keay, the City Architect and Housing Director of Liverpool, on The Manchester Plan, and L. H. Keay, the City Architect and Housing Director of Liverpool, on The Manchester Plan and Company of the Plan and Amenities of Living—The House and Neighbourhood. The Conference is being organised by the Manchester Society of Architects on behalf of the RIBA. It will be opened by the Lord Mayor of Manchester and under the Chairmanship of J. S. Beaumont, President of the Manchester Society of Architects. SEPT. 6-7

Building (Sponsor, MOW.) SEPT. 25-29 REYDON. Country Life and Country Needs Exhibition. (Sponsor, BIAE.)

Tools

Modern

Exhibition.

FEB. 10-23

SEPT. 19-26 R UGBY. NALGO Exhibition. (Sponsor, Oct. 20-Nov. 3 VENTNOR. The Future of British Resorts. Planning Our Holiday Areas.
Town and Country Planning Association
Conference at The Winter Gardens Pavi-Conference at The Winter Gardens Pavilion, Ventnor, Isle of Wight. The conference will be opened on October 6 by the Rt. Hon. Ernest Bevin and end on October 9. Among those taking part in the discussions will be Sir Patrick Abercrombie, representatives of all the main resort towns, of the travel and holiday organizations, of the hotel, catering and resort industries, and by interested members of the public. The by interested members of the public. conference will be preceded by a holiday week, from September 29 to October 6, at the Wellington Hotel, Ventnor. The Holiday Week has been designed primarily as a holiday meeting of town and country planners, members of the Association and their friends. Excursions and a limited number of lectures on subjects related to town and country planning are being arranged. (Sponsor, TCPA.) SEPT. 29-OCT. 9 ORK. NALGO Exhibition. At Holgate Hi Settlement. (Sponsor, BIAE.)

SEPTEMBER 6, 1945

No. 2641. VOL. 102 News 163 Full Collaboration with Nature 164 This Week's Leading Article ... 165 Astragal's Notes and Topics 166 Letters from Readers .. 167 Courtyard into Dining Hall ... 168 Physical Planning Supplement: Manchester. Reviewed by Justin Blanco White 169 Amphitheatre at Red Rocks

Colorado. Designed by Burnham Hoyt 173 Lamella House .. 175 Information Centre 177 Societies and Institutions 179

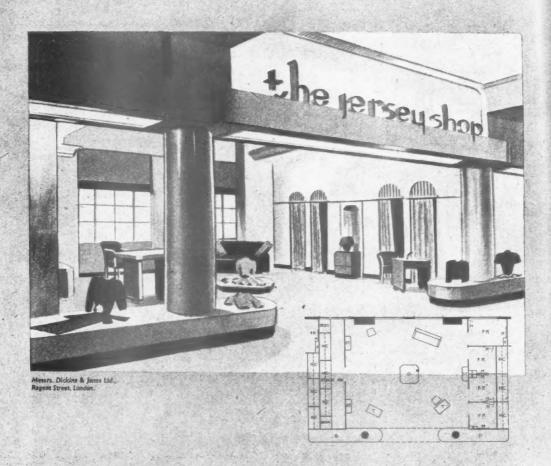
Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis. The Journal's starring system is designed to give this emphasis, but without prejudice to the unstarred items which are often no less important.

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

Government Twenty more factories, with a total area of about 4½ million square feet have been allocated by the Board of Trade FOR FUTURE CIVILIAN FUTURE CIVILIAN PRODUCTION.

Including those already announced in recent months, 74 Government factories, representing a total area of approximately 20 million square feet, and representing employment for about 200,000 workers, have now been allocated for civilian industry. Negotiations for other factories are in pro-Negotiations for other factories are in progress. Civilian production could not begin in a number of instances until after the end of the Japanese war. Among the latest 20 are factories at Gateshead (31,000 square feet) allocated to Liner Concrete Machinery Company, Newcastle, for the production of machinery for the building trade. At Swinton, Mexborough, Yorks (556,000 square feet), General Electric Company, Limited, electric cookers and household appliances. At Doncaster (109,485 square feet), Crompton Parkinson, electrical equipment. At Grantham (176,000 square feet) feet), Crompton Parkinson, electrical equipment. At Grantham (176,000 square feet), Aveling-Barford, Limited, contractors' plant, large scale cooking apparatus. At Llandudno (112,000 square feet), Ratcliffe Engineering Company, Limited, pre-fabricated house units and household appliances; and at Alloa (40,100 square feet), allocated to Harland Engineering Company, Limited, for the production of fabricated sections for the bousing programme ferrous and non-ferrous housing programme, ferrous and non-ferrous sheet metal fittings.



TODAY IS TOMORROW

Today is the Tomorrow we planned for Yesterday. In the Yesterdays, when all our skill and resources were given to the war effort, we had an opportunity to test new materials and their possibilities.

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From AN ARCHITECT'S Commonplace Book

REGENCY VIGNETTE. [From British Architects and Craftsmen, by Sacheverell Sitwell (Batsford).] The emphasis is upon the bow window; and one end of the square is left open to the sea. It is this feature that makes a walk through old Brighton, and a reverie upon the inhabitants of its houses during the last hundred years or more, into an experience as full of strange fantasy as reading the Illuminations of Rimbaud. "There are Horatian nymphs with their hair dressed in the style of the First Empire, Siberian roundelays, and Chinese ladies painted by Boucher"; such fantasies do not apply to Brighton only, they are those of everyone who has passed his childhood or kept his imagination alive in any seaside town. Take, for instance, the terraces of Hastings, due, in part, to Decimus Burton, the architect of the Ionic screen at Hyde Park Corner. Upon some engraved sheets of Victorian writing paper we find a view of Pelham Place; an immense Crimean gun from Sebastopol, guarded by a railing, points straight out to sea. We are on the promenade. There are ladies in crinolines and small children dressed in the fashions of the 'fifties. A group of persons admiring the Crimean trophy stands immediately above the blue sea and the fishing boats. At the left are the Regency houses, with bow windows, long balconies, and verandahs . . . Behind the houses, we know from an old guide, there are archery grounds and subscription gardens. Or we choose another sheet of writing paper and have Pelham Place in reverse, with Pelham Crescent at the end of it. A flagpole rises at the edge of the promenade out of the sand. Ladies in white crinolines, for summer wear, are talking over the railings. A britschka or open carriage comes quickly past, and we are to imagine the shining leather of its hood, put back and glistening in the hot sun.

of Ministry Works demonstration houses at Northolt are TO BE HANDED OVER FOR LETTING in the normal way to the EALING Borough Council. be done, the houses must Before this can be put ready for occupation, and for this purpose the site was closed to the public as from August 25. During the eleven months since the opening of the site for exhibition (on September 25, 1944), 35,000 visitors have inspected the houses. Representatives have come from the United States, Reconstruction Committees from Russia, France, Norway and Poland, professional visitors from Australia, New Zealand, Africa (South, East and West), Jamaica and the Argentine, delegations of Arabs and Jews from Palestine, and representatives of the Allied Con-trol Commission in Germany. At home, practically every local authority, from the practically every local authority, from the smallest rural district council to the Corporations of the great cities, has sent representatives who have spent many hours in-specting the site. A considerable number of parties from the Services, both men and women, have also been conducted over Estate. The Northolt experiments lifted designs and methods, both traditional and pre-fab, out of the realm of conjecture and gave them practical form, in which costs and living qualities could be actually tested out and studied comparatively.

The National Smoke Abatement Society urges that immediate action should be taken to FIT ALL NEW HOUSES WITH IMPROVED FUEL BURNING APPLIANCES.

The Society, to which over two hundred local authorities are affiliated, has sent the following note to housing authorities: Improved Fuel-burning Appliances for New Houses.—For information and any action that may be considered desirable, we beg to bring to your notice a resolution recently passed by the Executive Committee of the

Society, as follows: That the Executive Committee of the National Smoke Abatement Society expresses its grave anxiety at

situation which, judging by replies to

questions in the House of Commons by the Minister of Health (June 7) and the Minister of Fuel and Power (June 14) will, in spite of recent considerable advances in design, result in a great number of new houses being fitted with solid-fuel-burning appliances of obsolete type and inferior efficiency. This must mean: that there will be a further wasteful consumption of solid fuel during a period of continuing scarcity; that the occupiers of new houses will have permanently higher fuel costs; and that the smoke evil will be extended and intensified. The Committee has noted the Parliamentary reply on behalf of the Minister of Fuel and Power (June 13) to the effect that the fuel so wasted will be in the order of one ton per house per annum. This, at present fuel prices, is equivalent to raising the real rent of each house by about 1s. 6d. The Committee fully recognizes the difficulties of the present general situa-tion in respect of production, but it cannot avoid the opinion that this particular problem, which so closely affects not only the national economy, public health and amenity, but the cost of living, the comfort and the amount of domestic work to be done in every house, has been grossly neglected, both in planning and execution. It therefore most strongly urges immediate and determined joint action on the part of the Ministries of Health, Works, and Fuel and Power to make possible the fitting in all new houses, whether permanent or temporary, municipally or privately built, of new appliances of higher efficiency as recommended in the Government's Housing Manual, 1944. Reference may be made to the Society's Memorandum on Smoke Abatement in New Housing, dated January, 1945, a copy of which was sent you; to the paragraphs on heating installations in the Housing Manual, 1944; and to the publication, Solid Fuel Installations (Post-war Building Studies, No. 10, Ministry of Works). We suggest that it is urgently necessary that housing authorities should support this resolution and do everything possible to secure the improved appliances for their own housing. As a supplement to its previous Memorandum the Society pre-pared an information sheet giving particulars of the different types of improved appliances, with names and addresses of manufacturers. Copies of this may be obtained on request. On behalf of the Executive Committee, Arnold Marsh, General Secretary. Note.—A short emergency conference on Fuel-burning Appliances in New

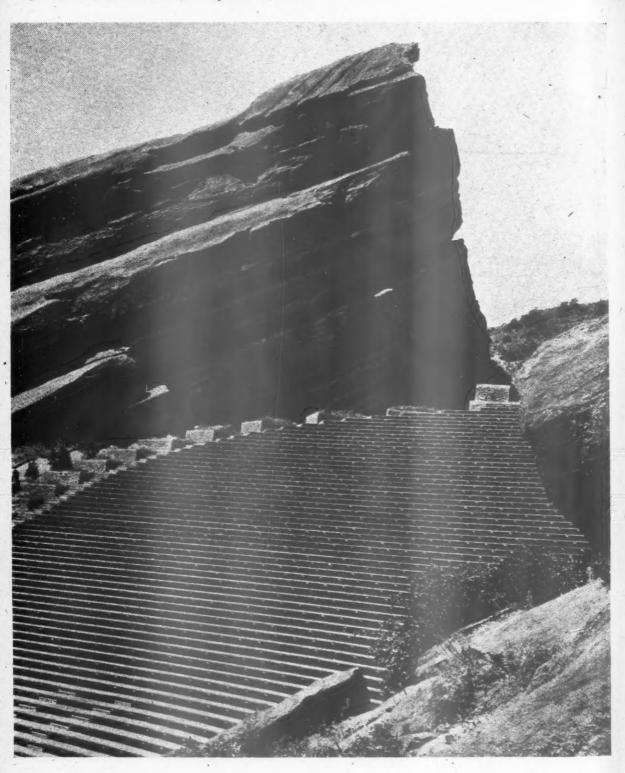
Housing will be held at the Caxton Hall, London, S.W.1, on Friday, October 19, 1945, from 10 a.m. to 12,15 p.m., preceding a general meeting of members of the Society. The conference will be open to all who wish to attend and no fees or tickets will be required. Further information and programme, when issued, will be supplied on request.

All House Builders' Organizations have UNITED TO IMPROVE HOUSING Standards.

This announcement was made at Birmingham by Mr. H. E. Coniben, President of the National Federation of Registered House Builders, who said that all members will be pledged to build up to the standards of construction prescribed by a National Registration Council, which will arrange for the independent inspection of houses and the issue of certificates of compliance with an approved specification. Among the bodies represented at the meeting were the National Federation of Registered Housebuilders, the House-Builders' Association of Great Britain, and the Birmingham and District House-Builders' Association.

The Government is being urged to PROTECT RURAL SCENERY from Unsightly Advertising.

Anticipating that competition in business freed from war-time conditions may lead to a resumption of unsightly advertising, the Lancashire branch of the Council for the Preservation of Rural England is to urge the Government to prohibit new commercial advertisements in rural areas, other than those essential advertisements permitted under existing by-laws. The branch is anxious not to hinder the provision of electricity supplies to rural communities which, it is expected, will now be expanded on a wide scale, but is concerned that new overhead lines shall be sted with the least possible injury to the



Full Collaboration with Nature

In the design of this amphitheatre, built in the stupendous setting of the Denver foothills in Colorado, Nature has been taken into full partnership. The architect, Burnham Hoyt, has been admirably restrained in subduing his building and planning to the advantages, restrictions and dramatic features of the natural site. There was no need to worry about sound, for the red sandstone rocks them-

selves provide uncanny acoustic properties. Seating layout was largely dictated by the existing slope. Car parking space is at the upper level out of view of the audience. All mechanical facilities are hidden, and the architecture, in the local red sandstone, has been kept to a minimum. A plan and other views and details are shown on pages 173 and 174 of this issue.

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1.—In little profit ing s watt viding super on n Over why ! ings the F disrur

ings the F disruption, skilled square buildi SCR—the society for cultural relations between the peoples of the British Commonwealth and the USSR—announces a series of Introductory Lectures to the Study of SOVIET ARCHITECTURE. The lectures to be held at the RIBA, 66, Portland Place, W.I., are as follows:—Sept. 25: Russian Architecture: The Historical Background. Mr. John Summerson. Chairman, Mr. Percy Thomas, PRIBA. Oct. 22: Socialist Realism: The Esthetics of Soviet Architecture. Dr. F. Klingender. Chairman, Mr. E. J. Carter. Nov. 19: The Economic Background to Soviet Architecture and Townplanning. Dr. E. M. Chossudowsky. Dec. 11: Townplanning in Action: The Moscow Plan. Mr. Arthur Ling. Chairman, Sir Ernest Simon. All the lectures begin at 6.30 p.m. Admission free to members of the Group; non-members 1s. 6d. Tickets from SCR Architecture Group, 98, Gower Street, W.C.1.

By arrangement with the Reinforced Concrete Association the Northern Polytechnic will give a course of instruction in REINFORCED CONCRETE CONSTRUCTION during the next Session, which commences on September 24. The curriculum camprises lectures and laboratory instruction in the properties of concrete and of aggregates and cement; the proportioning, mixing, placing and consolidating of concrete; the preparation and fixing of reinforcement; formwork, and the processes of construction generally. The syllabus has been drawn up primarily to meet the requirements of resident engineers, foremen, clerks of works and others who have had some experience in the industry, and will include visits to works. The lecturer will be Mr. J. M. Murdock, M.Sc., A.M.Inst.C.E. Classes will be held on Friday evenings; the fee for the course will be fil. Further particulars may be obtained from the Head, Department of Architecture, Surveying and Building, Northern Polytechnic, Holloway Road, London, N.7.

Mr. H. J. Adams: Lack of skilled workers, WHILE SKILLED MEN CLICK THEIR HEELS, is the big bottle neck hampering building. Why is so little building being done now, while the best season for it is fast slipping by? Mr. H. J. Adams, in his presidential address to the Amalgamated Union of Building Trade Workers' Conference in Aberdeen, blamed these Four Muddles:—1.—In the industry, with its 80,000 big and little firms "private enterprising" for profits. 2.—Over acquiring land for building sites, with the Barlow, Scott and Uthwatt reports not implemented. 3.—In providing materials, for though there is no insuperable shortage, price rings have thrived on muddle and artificial shortage. 4.—Over labour. There is no earthly reason why hundreds of thousands of skilled buildings operatives should not be freed from the Forces without difficulty, confusion, or disrupting fair and systematic demobilisation. Lack of skilled workers—while skilled men click their heels in barrack squares—is the big-bottle-neck hampering building.

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FUTURE OF COMPETITIONS

HOWEVER sympathetic we may be to the many good works of Mr. Percy Thomas, President of the RIBA, we must express criticism of his unqualified recommendation, in a recent London speech, of that ramshackle Unemployment Agency, the present system of Architectural Competitions.

Three years ago last January there was published in these pages a factual survey, the statistics of which, then described as astounding, have never been questioned or refuted, which showed beyond doubt that the Competition System in its present form was a dangerous waste and diversion of architect man-hours and mental energy. That was at a time when all hands were needed at the urgent task of saving the country from an æsthetic and building emergency, largely produced by the ravages of speculative builders and quack designers. If, with all the opportunities, dangers and emergencies existed before 1939, how much more do they exist today when the nation faces an unprecedented crisis in all departments of building. At this critical time, when the services of architects will be needed in every department, it would be folly if a single hour of an architect's time were again wasted on paper work which went no further than the drawing board, and which could have only a chance of theoretical relation to the needs and realities of the moment. Yet we are asked to return to this rakish gambling for jobs, this architectural roulette, which in the twenty years of the inter-war period annually absorbed the energies of over two thousand five hundred qualified architects, nearly twenty per cent. of the entire profession, and this at the very time when over half the annual national building was not in the hands of architects at all, and which reached the staggering total, for the two decades, of over 37,000 competitors, to a bare 700 winners, each working an average of four and a half months whole or part time. Has the President ever driven down a by-pass lined with ribbon development? Has he ever imagined, to take but one example, how different might have been that appalling spectacle had those 37,000 disappointed gamblers of the inter-war years been properly organised and set to work on housing?

THE ARCHITECTS' JOURNAL does not wish to abolish the Competition System out of hand. What we press for is immediate and long overdue reform. Architectural Competitions, rightly organised, can be a valuable method of bringing to the surface young and unknown talent, but the ironical and unmistakable fact is that, as at present held, Competitions restrict instead of open opportunities to all.

As a basis of discussion we suggest an immediate reform which would benefit winners as much as losers. It may not be desirable to restrict the number of competitions held annually, but a system could be organised by which preliminary sketch competitions, to take a few days or at most a few weeks to complete, could be held. This would provide a weeding-out

method in that a fixed and limited number of finalists would be selected from the entrants to carry out full drawings.

By such a system, not only would much valuable time be saved, but the field would at once be thrown open to a much larger number, for at present barely a fifth of the Profession of some 15,000 registered architects can now afford to spend the long time usually needed on the competition gamble.

So much for revitalising the Competition System. In a future article we shall discuss its essential corollary: development of the system of Distribution of Jobs. In the meantime, and forthwith, let Portland Place sweep away an old-standing abuse which threatens to suck the life-blood from the profession at a time when maximum vigour is needed.



The Architects' Journal War Address: 45, The Avenue, Cheam, Surrey

Telephone: Vigilant 0087-9

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THE LIGHTS COME ON AGAIN

The lights that are coming on again all over Europe include, in Norway, the first "liberated" number of the architectural journal Bygge Kunst, which has been under the yoke of the Germans for the past four years. A wellproduced monthly journal, sponsored by the Norwegian equivalent of the RIBA, Bygge Kunst flourished for some years before the war, under the editorship of Arkitekt Eivind Alnæs.

When the Germans occupied Norway in 1940, they closed down or took over the direction of many journals. At first, Bygge Kunst was luckier than most, as it was allowed to appear under its old editorship for nearly a twelvemonth. Then, one day in 1941, the Herrenvolk arrived at the paper's offices and installed a Quisling editor.

The April 1941 issue had already been printed and copies were stacked ready for dispatch. Eventually the Quislings dispatched them, but not before they had made an important alteration; they pasted a newly-printed slip over the imprint, where the editor's name appeared. The slip did not give the name of the new editor but merely referred to him by his official title of Riksleder (which may be roughly or rudely translated as "state stooge").

The Riksleder went on editing Bygge Kunst until the Germans surrendered. Soon after the Allied Forces appeared in Norway, Arkitekt Alnæs reappeared in his old office. The new number of the paper which has just appeared is the first visible result of his efforts. Almost inevitably, a large number of its pages are devoted to an article on bomb-damage in Norwegian townswith photographs of ruins which the Germans had not considered it necessary to publish.

POETS' CORNER

THE SPEC BUILDER SPEAKS-1*

On bargain sites I gazed with prescient

Bought, breathed and wished, and io! the

values grew;
Thus Enterprise allied to Laissez-faire
Can charm a thousand fortunes out of air. Freedom's the word: no tape, of red or

pink.
Shall crang the psyche of the kitchen sink, As H. and C. released from all control In individualistic torrents roll;
In clashing hues the livid walls shall swim,

Doors shut and open at their own sweet whim,

While to the attic dizzy stairs invite To brave the Alpine hazards of their flight. Refained the names my tasteful models Veeouse and Herozholme and Monshatto,

With acknowledgments to The New Statesman and

Blimpcot and Laskiville (with upper story Duly equipped as an observatory).

Meanwhile the homeless pilgrims vainly

Scan the blank vistas and await the view Where Cotes with Havens, Nests with Villas

And roofs and prices both affront the sky.

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JERZY FACZYNSKI

Reproduced on the facing page are drawings by 28-year old architectural student Jerzy Faszynski. They come from his new book, Studies in Polish Architecture,† which is described by the publisher as "a pictorial review of imaginative compositions illustrating the history of Polish architecture from earliest times to the present day."

The author-artist, an ex-flight-sergeant in the RAF, has been completing his studies at the Polish school attached to Liverpool School of Architectureanother notch on the Reilly rifle-buttand he is now returning to Poland and to the tasks of reconstruction. That is if he is not seduced from the way by Hollywood or the Jolly Miller.

For Mr. Faczynski is clearly a born Despite their economy set-designer. of statement nearly every one of his drawings is charged with tension and drama-or what the film-boys used to call Atmos. I can almost visualise the minute-"Hire that guy Jerzy, and put him to work on the new Errol Flynn picture."

In technique he has much in common with his compatriot Topolski—the same glowing wet wash-strokes, the same dancing calligraphic line, the same high-speed and enthusiastic attack. And for those who are not disarmed by such virtuosity and need sterner fare, the drawings are accompanied by captions from Polish scholars and historians, and supplemented by an authoritative historical essay by a professor.

From this we learn, among other weightier facts, that the author is susceptible to advice from pretty girlssomething for which he surely found

[†] Studies in Polish Architecture by Jerzy Faczynski. University Press of Liverpoot, £1 1s. 0d..

sympathy in Liverpool—and that the peasants of the Western Carpathians have a popular vocabulary of æsthetic appreciation ranging from "Szumny" (pronounced shumny) meaning perfect, through "swietny" meaning wellformed, to "pickny" meaning just fine.

Personally, I think most of Mr. Faczynski's drawings are pickny—some of them swietny and one or two of them practically shumny. And what a shumny way to learn architectural history. Here is a brilliant precedent for our schools to emulate—and, if the results are not always

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equally skilful and fascinating, at least the student will have learned more on this sort of step-ladder than by sliding down the banisters.

CEAPE CORNER

Fired by his success with the radiators at Leicester Astragal is now attempting to change the name of the Council for the Education in the Appreciation of Physical Environment to something a little more slippy. The Council is willing to consider suggestions from readers, so let's have a few. How about "Council for the Encouragement of Visual Appreciation" for a start?

ASTRAGAL



LETTERS

Roy A. J. Gazzard
(Lieut. 12th Bn. Devon Regt.)

The Admiralty Extension

SIR,—The letter by the Secretary, IAAS, raises several points, not because of the offhand way in which he condemns a most interesting piece of contemporary architecture, but because it is evident that even now there exists a certain portion of the profession which would—if it could—sabotage any reasoned and enlightened plan for London—evidence that there remains even at this enlightened stage a perpetual menace to progressive architecture. One hesitates to label any building, de-

One hesitates to label any building, designed by a contemporary, as an "eyesore"—more especially when judgment is based upon "hearsay" and "high authority." "High authority" it certainly was that caused its inception in 1940. Team-work was then the order of the day as the reali-

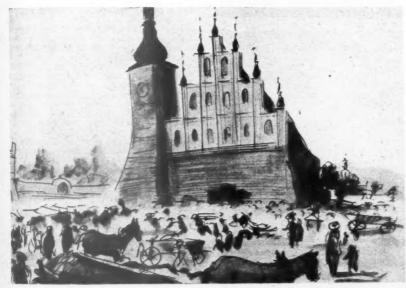
"High authority" it certainly was that caused its inception in 1940. Team-work was then the order of the day as the realization of the magnitude of the impending struggle all too slowly dawned upon us—and team-work in its fullest sense was to be found in the group of Admiralty officials, architects, engineers, surveyors, contractors, and operatives which, bound down by numerous difficulties, embarked on this amazing project.

The original architect tragically became an air-raid casualty, but the designs were adapted and altered sometimes beyond recognition to meet new circumstances. New techniques were developed which meant continual experimenting on the site; but in spite of all the obstacles the scheme was finished to schedule.

I also have heard the building described

I also have heard the building described in similar tones to those used by the Secretary, IAAS, proving conclusively that the building does at least express its function—it pretends to be no more than a bomb-proof, fortified, nerve centre.

As the Secretary very rightly suggests, it is "far from being temporary"—and from a knowledge one has of its construction, it would seem that removal would entail such fabulous expenditure, money, time, and energy, as to render it for all practical reasons as being as permanent as the Pyramids. At all costs the accommodation available in London dictates that we put up buildings—not pull them down. Remembering also that it has taken six years

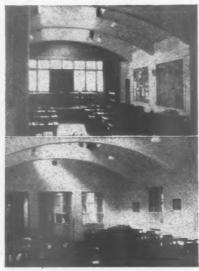




Two sketches by Jerzy Faczynski published in his Studies in Polish Architecture which Astragal reviews this week. Top, "Market Place." Below, "Old Street."

COURTYARD INTO DINING HALL







and many millions of money to win the first round of this present war, it would seem rather audacious to waste time and money "civilizing" a building when it seems we still have ourselves to which to attend.

A knowledge of the construction employed would prove that the facing is not as unsuitable as the Secretary would have us think. It is composed of pre-cast concrete slabs ingeniously designed to act as permanent shuttering at a time when timber was unobtainable. Resistance to smoke and acids and a rough camouflaged texture which is easily cleaned and which weathers better than fair-faced concrete,

ber was unobtainable. Resistance to smoke and acids and a rough camouflaged texture which is easily cleaned and which weathers better than fair-faced concrete, are other qualities.

Portland stone might, it is true, be applied to the outer surface and spotted with niches containing sundry statues (doubtless in three-cornered hats), which we are told are in short supply in the vicinity—the senior service apparently not having been inclined to persecute posterity with such atrocities. If the roof can take the heaviest aerial bomb—it could doubtless support a Quadriga on the grass-topped

roof, and what fun we would have surrounding the figures (WRENS with telescopes, perhaps), with a conglomeration of coils, tridents, and dolphins.

Roffey Park, Horsham, built as a country house for a millionaire, was recently adapted by Mr. John MacGregor, MacGregor, F.R.I.B.A., as a rehabilitation centre for industrial and clerical workers. The most difficult requirement was the addition of a dining hall to seat 150 with adequate adjacent kitchens without building a mere additional hut. The problem was solved by throwing concrete beams across the kitchen yard supporting a Siegwart concrete roof with a continuous clerestory light and re-erecting the stone mullioned wall at the end. The beams were cast in situ in sequence from the same shuttering. Top left, the original courtyard. Top right, two views of the completed interior. Bottom, the concrete beams in position, showing the sunk panels formed by fixing wall board to the shuttering.

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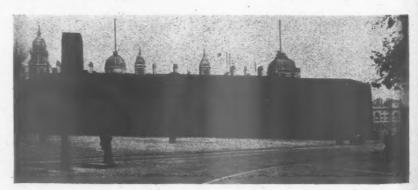
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No—if it is sculpture the Secretary wants, he has to look no further than the building itself. Clean up the building by removing the line of the parapet and lay out a useful restrained garden in the triangle at the front elevation—let us have our sculpture there—of the type and nature that will amplify the building's expression, and explain its function. Let neat trimmed hedges line up between the machine-gun posts and reconstruct the roof gardens for dinner-hour relaxation. Let us have our Quadriga tumbling down in Berlin, leaving Portland stone for "St. Paul's and St. Martin's "—leave posterity to differentiate between the Elevations of Nash, the Horse Guards, the old and new Admiralty, and not to try to dress a battleship as a yacht.

not to try to dress a battleship as a yacht. It would seem that a memorial is what the Secretary wishes—here we have one peculiar to London—as symbolic as the ruin memorials in the City. A memorial in the form of what is perhaps the largest self-contained single air-raid shelter in London. A memorial to an unrecognized, unknown professional team and a few hundred operatives who did a good job for the country in record time. To a building industry that can produce a modern building as technically efficient as a Bren gun or Spitfire—to the brain and brawn of the Royal Nayy.

Let it not only be a reminder that "total war" results in construction just as much as destruction, with a corresponding monetary cost, but let it be a reminder of the form which architecture will have to take if "total war" becomes a permanent threat and men prefer to live over rather than under the ground.

ROY A. J. GAZZARD, Lieut., 12th Bn. Devon Regt.



The Admiralty Extension. See letter from Lieut. Roy A. J. Gazzard.

PHYSICAL PLANNING SUPPLEMEN

MANCHESTER

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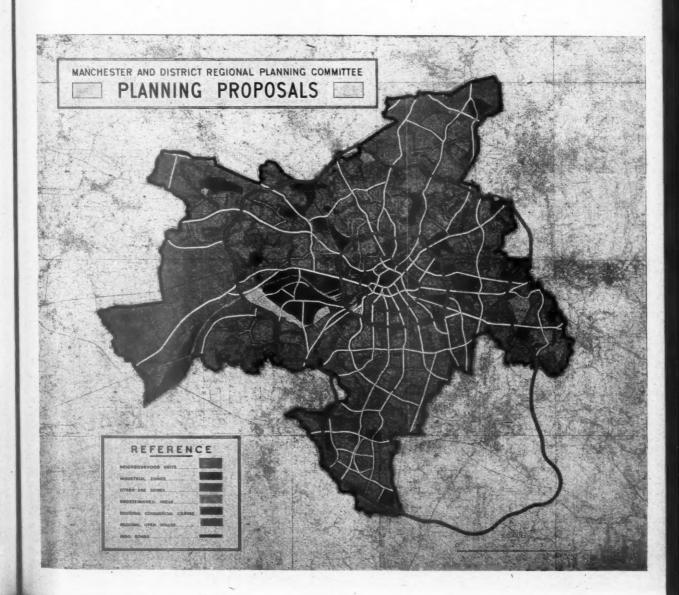
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st in d, nne nne al ch ehe Manchester, though second city of England in actual size, is the centre of an urbanized area larger and probably more populous even than the London Region itself. A textile centre from the Middle Ages, Manchester was well based near the sea for the vast but disorderly expansion of industrial Victorianism. In the city's tortuous agglomerations the housing problem, felt in its most acute forms, has often in the past been countered and ameliorated, but these TOWN AND REGIONAL PLANNING PROPOSALS by R. NICHOLAS, B.Sc., M.Inst.C.E., M.T.P.I., are the first all-out effort to deal with Cottonopolis basically, radically, and as a whole. The 1941 population of 705,000 is expected to drop to 659,000 by 1961, with a parallel decrease in the persons per family unit. The first two steps in vast rehousing schemes envisage replacement of 68,000 and subsequently 53,000 unfit dwellings. An unexpected aspect of the Plan, the main zoning of which is shown below, has been the readiness of the Railway Companies to provide survey and technical assistance. It is expected that the City Council will shortly begin to ratify the proposals, which have been visited on Exhibition since July 20 by 125,000 people. Some aspects of this bold plan are discussed on the next page by JUSTIN BLANCO WHITE, A.R.I.B.A., A.A. Honours Diploma, 1933, Henry Jarvis Scholar, and a member of the Group recently engaged on the Middlesbrough Survey and Plan.



MANCHESTER

reviewed by

JUSTIN BLANCO WHITE

moderate density

The regional plan for Manchester and District has to deal with a concentration of well over 1½ million people, and this not in isolation, but within a patchwork of other important industrial towns. The density of population in the region as a whole is moderate—just under 18 per acre—but in the central nodule of built-up areas it is much higher, and is nearly 40 per acre throughout the whole city of Salford.

recreation survey needed

The physical setting provides the moist air and supplies of water which have led to the growth of the cotton industries. The land slopes from 700 ft. in the north-east to below 100 ft. in the south-west, the most open and unspoilt country being to the west and south. One would like to know what use people make of the countryside and which parts are most popular, so as to know the significance of the policy for open spaces.

air pollution

Pollution of the air reaches nearly 500 tons a sq. mile a year in one industrial area. The worst residential area has over 2½ times as much deposit of pollution as has the suburb of Wythenshawe, with some 100 tons.



Industry as proposed would group itself much more definitely and compactly along its natural arteries and would include the many smaller individual factories within the new and neater boundaries.



Industry as at present has mushroomed along the Canals, clotted at the Canal Docks, interfered with the civic and business centre, and has also vaguely spotted itself over the whole urban area.

regional centre muddle

The regional centre, 3 to 4 miles across, is a confusion of scattered industry, commerce, administration, dense housing, and congested important traffic routes. The first essential for a Plan is therefore to sort out the basic needs of these conflicting factors.

manufacturing population exceptional

The region has a proportion of people employed in manufacturing industry which is nearly twice the national figure. There is an industrial ill-balance of clothing, cotton, and textile industries, and in 7 out of 14 districts over 20 per cent. of the workers are employed in one industry, which in five cases is cotton. These industries are carried on mainly in small, central factories. 83 per cent. of clothing firms employ less than 100 workers. On the other hand, the growing engineering industry has some very large suburban works, and is a balancing influence.

smoke nuisance

Heavy industry, tied to the Ship Canal, is largely grouped just west of the Centre, and its smoke blows north-east and east over much of the housing. A map showing the dates of development of the industrial sites, and their industrial type, would help to explain siting tendencies.

industrial questionnaire

An industrial questionnaire was used to find out the difficulties of resiting old scattered industries; although the results are not published they must be of great interest. It is proposed that Trafford Park, being by the Ship Canal and less mingled with housing than other industrial sites, should be developed for heavy and any noxious industry. One wonders to what extent other industry, for its own efficiency, would like to move during the redevelopment period to suburban sites. Would this cause more decentralization of employment than the 10 per cent. which is planned to deal with the housing overspill?

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Cities

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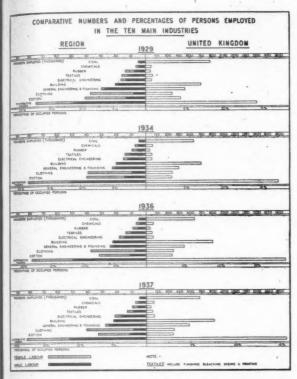
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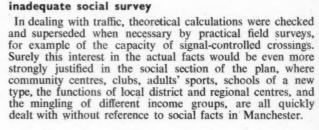
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Cities such as Manchester cannot be replanned without reference to a national framework. Industrial surveys such as this, comparing the numbers of people engaged on the city's main industries with those engaged on the same industries throughout the whole country, will be increasingly significant.



commerce and administration ignored

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There is no discussion of commerce and administration, the space and types of development needed, and the relation to transport, culture, and entertainment. This is less important than is industry or housing, but surely more important than the particular routes of traffic proposals dealt with later.

three miles slum without parks

The housing survey and proposals are the main influence of the plan. The region has 63,000 houses, or 17 per cent. of the total, at over 42 to the acre, and 43 per cent. at over 30 to the acre. Over half the houses are at over 24 to the acre, since this type of building, without baths or gardens, continued into the present century. Besides these high net densities, housing in the central part of the region—some 3 miles across—has no open spaces of any size. Over imilion people live in areas with less than 1 acre per 1,000 people of open space, that is, less than a quarter of the current minimum standard.

transport and industry

Transport, like industry, is covered by a very valuable and full survey. This includes a road traffic flow map and estimate of future traffic flow volumes. Ten Class I roads converge on the regional centre, without relieving ring roads, and there are 10 railway goods terminals spaced out round the centre and connected only by horse-drawn traffic across it. Road transport from the Canal Docks has been classified by destination, and supports the need for ring roads.

MINCES & GLOG SLABS CHEMICALS MUSICAL INSTRUMENTS INCHE STEEL

MANUFACTURE OF COTTON

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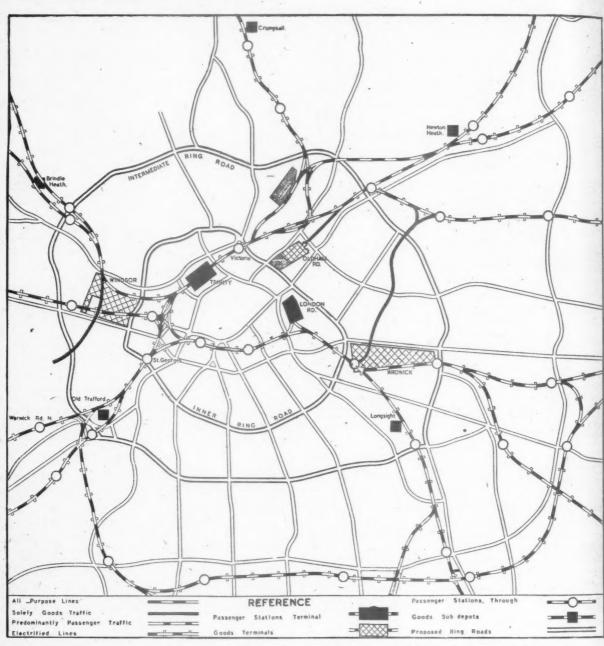
Clear comparisons of present and proposed accommodation in terms of floor space and site area are basic and essential facts without which a Town Plan must remain dangerously unrealistic. Mr. Nicholas has taken special pains with his survey of Manchester's industrial structure, present and future.

main proposals

Following the survey, the Plan's main objectives are: (1)-To rebuild in an open way all houses at over 24 to the acre; (2) a green belt defining the region from surrounding towns; (3) grouping of industry in zones, and decentralization of lighter industries with the overspilling of population, and (4) efficient transport.

floor space investigation

It is proposed to sort out the jumble of mixed old industries and housing by very precise zoning, based on detailed calculations of the site areas needed for each. The standards of space taken for new and rebuilt housing are a generous interpretation of the Dudley Report—a gross neighbourhood density of 30 and 45 people per acre. Those for industry result from a most interesting survey of the present industrial structure and use of floor space and sites, adjusted to allow for up-to-date layouts; they require 6.1 acres per 1,000 people for industrial sites throughout the region,



Railway Proposals. At present Manchester's main line passenger entrances and exits are inconveniently split up amongst four separate stations. The plan proposes centralization of the main line passenger access in the new Trinity Station, alleviating traffic jams on the suburban system.

decentralization

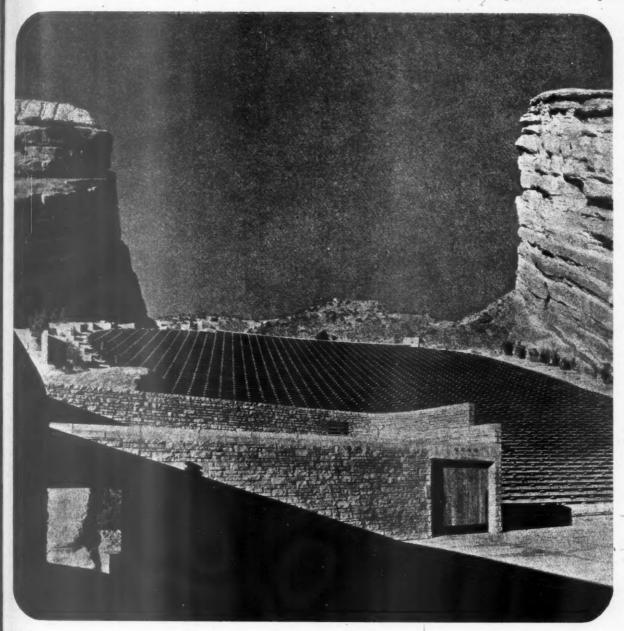
The population movements necessary for redevelopment will merely reinforce an existing decrease in central population, due to a lower birth rate and a spontaneous tendency to move outwards. The result is that the Plan requires just over one-tenth of all the people in the region—or some 138,000 people—to form a planned overspill. The central authorities—Manchester, Salford, and Stretford—are planned to lose about one-third of their people, it being expected that by 1961 they would have spontaneously lost one-tenth in any case. These figures allow 8 acres per 1,000 people for open space in the region, including parks, adults' sports fields, and half the school sites needed under the 1944 Education Act, and 1 acre per 1,000 people for allotments. The green belt, 5-6 miles from the centre, adds farmland and woodland to these spaces, particularly in the west.

industries grouped

To make rebuilding of central housing possible, industry is grouped, the groups being extensions of the existing main industrial sites. These sites are linked by the Inner and Intermediate Ring roads, which also free the region's Commercial and Shopping centre from through traffic. Grouping of railway stations, and removal of goods depots to just outside and adjoining the inner ring, will also free the central area and reduce double handling of goods.

a bold plan

This is a bold positive plan for housing standards, industrial siting, and transport. It is not at all impracticable with the legislation proposed by the present Government. It should be carried on to the stage of layout and design. A Plan should be positive in æsthetics, and made definite by examples, before its standards are proved.



AMPHITHEATRE AT RED ROCKS, COLORADO

Red Rocks Amphitheatre lies in the magnificent setting of the Denver foothills with a view of the distant mountains in the east. The plan was determined by the natural rock formation. Red sandstone monoliths surround

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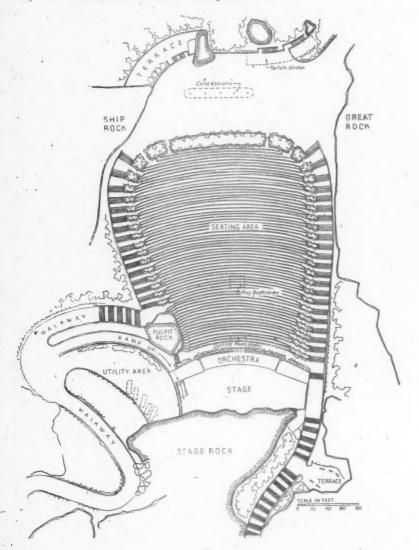
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DESIGNED BY BURNHAM HOYT

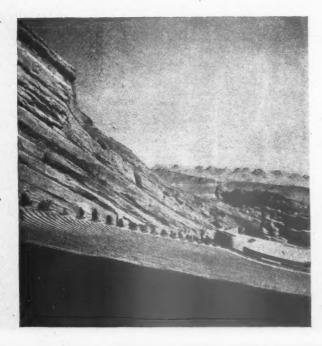
the huge sloping open area and provide weird acoustic properties so that a whisper carries perfectly to the top of the auditorium. Local stone, approximating to the red colour and rough texture of the monolithic rocks was used. The seating layout was dictated

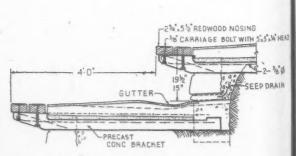




by the existing top level slope but some cutting and filling had to be undertaken at the lower level. The wide seating rows are reached by side stairways, being separated from them by strips of juniper, a native shrub. Excavation has provided two levels of storage space and dressing rooms under the stage. Mechanical facilities are hidden. The switchboard which controls the lighting is placed behind the conductor's stand. A film projector booth is placed under a section of removable seats in the centre area, and 'the stage has a disappearing cinema screen and four traps.

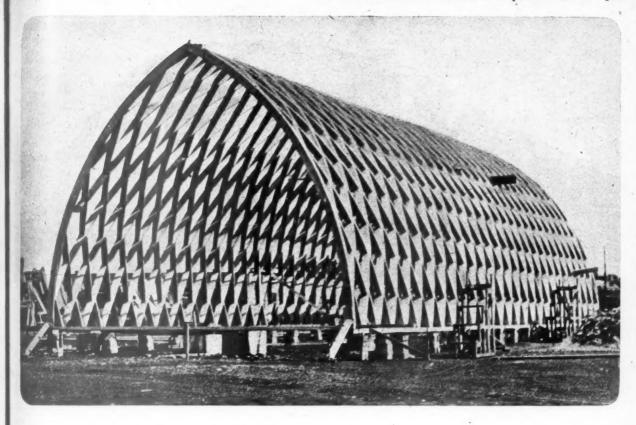
Another view of the amphitheatre is shown on page 164.





Top left, general plan, showing seating accommodation for 9,000. Top right, the ramp house showing, on the right, entrance to dressing rooms and toilets. Left, looking across the auditorium to the stage. Above, detail section of the seats; the 4'0" width allows late comers to reach their seats without disturbing others. (Illustrations: Architectural Forum).





LAMELLA HOUSE TRUSSLESS WOOD WITH ROOF

GENERAL—The Lamella timber trussless roof developed by F. Hills and Sons, of Manchester, has been known for many years as a system for covering large spans without intermediate support. Now the Company has applied the system to house construction and a prototype pair of agricultural cottages has been built at Barnstaple by the Barnstaple R.D.C., planned according to one of the type designs of the Ministry of Works. The object was to illustrate the application of the Lamella roof to rapid permanent house construc-tion. When they are in full scale production it is claimed that it will be possible to erect the houses in less than ten days. A further pair of experimental houses with further improvements has been built at Stockton-on-Tees.

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CONSTRUCTION-The whole of the upper storey carcase is formed by the Lamella roof in which no

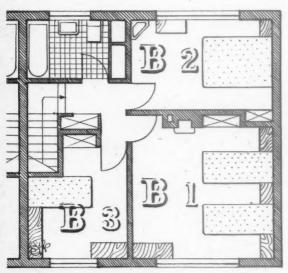
piece of timber longer than 4 ft. is used. Construction starts with the erection of a temporary steel frame which binds the structure and takes the thrust of the roof. After the completion of this unit, the first floor and the Lamella roof, which is prefabricated in large sections in the factory, is erected on the site 2ft. 6 in. above ground level. It is then lifted into position on the steel frame with hydraulic jacks. Building then begins concurrently on both the ground floor and upper storey. As the roof is being covered, the brickwork (if specified) is being run up from the

ground to the roof.
When equipment is available the
Lamella framing will be preassembled into two sections per house including any dormer windows; the erection time would then be reduced to the actions of lifting the sections into position and fixing the holding down bolts and ridge bolts.

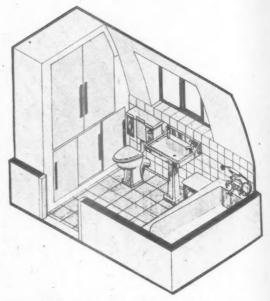
INSULATION—Insulation probably be confined in the future to the provision of diamond-shaped slag wool blankets secured midway between the front and back edges of the Lamella mesh.



Top, the Lamella roof forming the upper storey carcase, which is lifted to position with hydraulic jacks. Below, the finished pair of prototype houses.



HALF FIRST FLOOR PLAN



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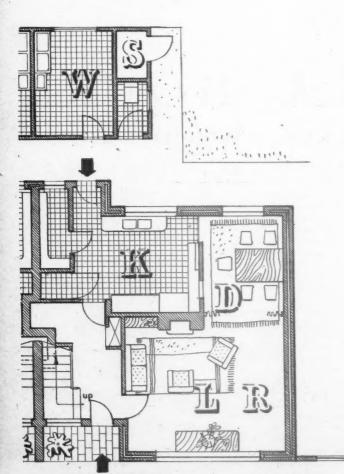
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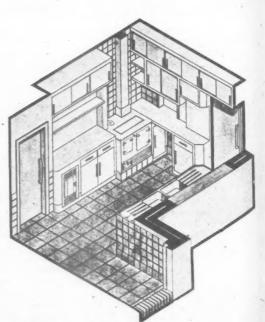
Two roof, inter

ISOMETRIC OF BATHROOM



HALF GROUND FLOOR PLAN





ISOMETRIC OF KITCHEN

LAMELLA HOUSE WITH TRUSSLESS ROOF

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.

STRUCTURE

2089

E

Post-War Techniques

Possibilities in Post-war Techniques. Robert L. Davison. (Architectural Record, May, 1945, pp. 85-90.) Recent trends in construction of small houses. Consumer research. Different types of prefabrication. Foundations, floors and basements. Walls, windows and doors. Sunlight and sun heat. Roofs. Interior finishes. Heating, airconditioning and lighting. Kitchens, bathrooms, utility rooms.

The appearance of Consumer Research in the housing field may profoundly influence the design of the low-cost house. Planning based upon factual data on how people live and what possessions they have, will result in houses that are far better to live in than those prevalent to-day. Prefabrication in some form will be almost universal in this field.

The most advanced technology is fore-shadowed by the formation of Dymaxion Dwelling Machines, Inc. This new company brings the entire production facilities—materials, methods, plant, machinery and personnel—of a major aircraft factory into the house manufacturing field along with a new organization of labour. The latter factor is not a technical one, but is of great importance as an indication that organized labour may become a major force in support of technological advances in the construction field, instead of opposing them as many of the building trades unions have done in the past. The adaptation of aircraft materials and light construction techniques to the design and production of dwellings is the most promising thing for post-war houses. The houses thus produced of aluminium, light alloys, moulded plywood and plastics will bear little resemblance to the typical pre-war small house. Not only in materials and construc-

tion will this be true, but also in basic design. The post-war low-cost house will be designed as such from the beginning, and will not be merely a cut-down and cheapened version of a \$10,000 house. Post-war trends and possibilities for various parts of the dwelling are summarized briefly in the article.

In foundations the general trend will be to reduce excavation to the absolute minimum. The author expects that most low-cost houses will rest on piers, since that type of foundation requires the least excavation and site construction. This will make possible the use of steeply sloping, irregular sites that were formerly considered unfit for house construction. Continuous foundations below frost line will continue to be used for the more expensive houses, largely because they are traditional. Tradition will be the only justification for the building of basements, since none of the reasons that originally caused them to be built are any longer valid. All of the functions formerly performed in the basement can be better and more economically done above ground.

In structure, the trend for the low-cost house will be toward a light, highly engineered structure, utilizing modern materials to near their maximum strength. Two types of structural system permit freedom in the disposition of the outside walls, and both will be used. One is the Skyscraper Frame of widely spaced supports; the curtain walls can be placed in line with the supports, or inside or outside of this line, or omitted entirely. This type of construction is ideally suited to pier foundations. The other type is the cantilever system where the roof is cantilevered out on both sides of a central core. If the roof construction is kept very light, so that only a light truss is required, this type of structure is quite feasible even for the lowest-cost house. The trend toward movable partitions and open planning favours a roof construction free from interior supports. Fixed frame bents or three-hinged arches will be considerably

used in spite of their being rather awkward to transport. Laminated wood and light alloy metal will be the two principal types.

The trend toward extensive glass areas and large openings will continue and gain in strength, as designers master the new technique of sun-control. They will bring the sun's full light and heat deeply into the house at times when they are wanted, and will exclude either or both of them when they are not wanted. Sun-control will cut heating and cooling costs and make the house pleasanter at all times. Extensive research is needed in this field to supply the basic data, develop working formulæ, and establish standards, all in a form which will be convenient for the use of designers. Plastics will be extensively used in post-

Plastics will be extensively used in postwar houses, but, needless to say, will not produce the miracles that have been so glowingly described by the Sunday feature writers. Plastics will, of course, continue to be used for all kinds of small gadgets, and probably for piping. But their most important use, in the author's opinion, will be in wall, floor, and roof materials, where plastics will serve as adhesives, impregnants, binders, aerated insulating cores, and finishes. Easily cleaned, warm to the touch and endlessly varied in colour and texture, plastics are ideally suited as interior finishes. Doors and windows and their frames, if not made of solid plastic, will at least be finished in plastics. Plastics may even furnish the answer to the long-sought low-cost floor that will be resilient but

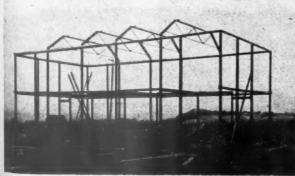
2090

Steel-Framed House

DENNIS STEEL-FRAMED HOUSES. Designed by Dennis Steel-Framed Houses Ltd. (Architectural Design and Construction, July, 1934, pp. 163-166.) One of few alternative methods originating from last post-war period still being adopted. Outer skin brick, inner skin of foamed slag slabs.

During the inter-war period 9,000 houses of varied design were built in the Dennis-Wild System. It was developed in 1923 at Blackpool. One of the houses in a very exposed situation was recently opened up. The steelwork was in a first-class condition. According to the Blackpool Council's Borough Treasurer, the maintenance of the Dennis-Wild houses erected 20 years ago has cost less than that of all-brick houses upon adjoining sites erected at the same

The original company claimed to erect a pair of houses in 8½ davs. This was achieved with houses of 753 sq. ft. A pair of demonstration houses has recently, been erected at Paddock Drive, Blackpool. In 15 working days of 8 hours. These new houses are larger; they have an area of





Two progress photographs in the erection of the Dennis steel-framed houses. Left, the steel framing, with its twin-trussed beams in the roof, carrying all super-imposed loads. Right, timber or aluminium studs in place with $4\frac{1}{2}$ in. brick infilling up to first floor level. The internal skin is of $2\frac{1}{2}$ in. foamed slag forming a $2\frac{1}{2}$ in. cavity. See No. 2090.

916 sq. ft.; plus an outbuilding of 70 sq. ft. They contain a number of improvements in constructional design, internal fittings and equipment.

Although alternative materials may be used, it would normally be a feature of this system to employ light precast floors, aluminium alloy flange channel first floor wall and roof components, thus reducing timber content. Because of the lack of necessary tools to produce these components, timber that been used in the experimental block.

External walls of ground floor are composed of 4½ in. brick outer skin, 2½ in. foamed slag concrete slabs inner skin with 2½ in. cavity between. The party wall is in two leaves of foamed slag concrete slabs, with a continuous cavity of 4½ in. between. These houses only require approx. 5,000 bricks per house, inclusive of outbuildings, i.e., one quarter of the conventional.

2091

Carpentry and Joinery

THE NEW BUILDERS' HANDBOOK, No. 2. CARPENTRY AND JOINERY. S. H. Glenister. (George Allen & Unwin, 5s. 0d.) Tools. Fundamental joinery processes. Floors. Door frames and casings, doors, windows. Roofs. Stairs.

This second book of 'the series does not reach the standard of the first on brickwork and drainage. (See No. 1895: 26.4.45.) The illustrations—perhaps the most important part of this kind of a book—are not sufficiently clear, sometimes even confusing, and are not provided with notations necessary for easy understanding by students. Also the text lacks clarity and precision.

2092

Architectural Practice

ARCHITECTURAL PRACTICE AND PROCEDURE. Hamilton H. Turner. (B. T. Batsford, 18s.) Third Edition of standard work. Office records, surveying of sites and buildings, drawings and specifications, bills of quantities, schedules of prices, approximate estimates and tenders. Inspection of work, certificates, variations, provisional sums. London Building Acts, Ancient Lights, dilapidations, etc. Reports and arbitrations.

Mr. Turner's book has, with very good reason, a high reputation, and the new edition will be especially welcomed. The Second Edition was, to some extent, obsolete, more particularly in its dealings with the RIBA Contract and London Building Acts, and a book which is known to be partly out-of-date must be handled by students with some misgivings.

by students with some misgivings. In the Third Edition, the contents are thoroughly revised and improved, and once again we have a wholly reliable work dealing with all the practical considerations surrounding an architect's practice. After the introduction, Mr. Turner deals with the manner in which work is obtained and the working of an architect's office, including the proper keeping and recording of papers and other matters relating to the business side of architecture, which are too infrequently stressed in architectural schools.

Following this are chapters on surveying sites and buildings, on drawings and specifications. There is no doubt that the ability to write an adequate specification is an important part of the architect's job which, again, is not always sufficiently highly stressed, and Mr. Turner has brought a sense of reality into his book by introducing a complete typical specification in the Appendix which should be invaluable both to students and young practitioners.

to students and young practitioners.

The next portion of the book brings the reader up to the contract stage, with

chapters on Bills of Quantities, Schedules of Prices, Approximate Estimates and Tenders. The chapter on Contracts deals with the RIBA Form of Contract in great detail, clause by clause, and in the Appendix are to be found a short form of contract for small jobs and also a form of Prime Cost Contract.

Following, naturally, after this are the problems which an architect may be expected to have to deal with during the progress of the contract, including the inspection of the work, certificates, variations, and provisional sums.

Personalities are dealt with next—the Quantity Surveyor, the Client, the Clerk of Works, and so on. This is followed by chapters on fees and the legal side of an architect's practice, and finally by a series of chapters on subjects closely related to architecture, including the London Building Acts, Ancient Lights, Dilapidations, Reports and Arbitrations.

The not inconsiderable Appendix contains many matters in addition to those referred to, including a typical Party Wall Award and Schedule of Dilapidations.

It is impossible to do justice to such a work in the space allotted. Mr. Turner mentioned that "the onlooker sees most of the game," and few will quarrel with this statement as applied to himself. The book is packed with sound advice based on practical experience, and any young architect who is not content with committing designs to paper and who wishes to undertake the responsibilities of his profession. would do well to buy a copy! to read it and to keep it in his office for future reference.

LIGHTING

2003

Colour Harmony

Notes on the Problem of Color Harmony and the Geometry of Color Space. A. Pope. (Journal of the Optical Society of America, December, 1944, p. 759.) Discussion of articles by Moon and Spencer on geometric formulation of classical colour harmony.

Moon and Spencer's notes on the analysis of colour harmony have been reviewed here previously (No. 1656:2.11.44). This article is a discussion of some of their theories. Mr. Pope, who lectures on theory of design at Harvard, finds the Moon and Spencer colour-space a valuable contribution, but criticises some of their contribution, but criticises some of their contributions to æsthetic theory. He claims that colour harmony is a spatial affair, and is therefore based on a different principle from musical harmony. This suggestion undermines, in his opinion, the special virtue of colour-intervals. Area effects are also discussed. The article is of interest and value to those who are concerned with colour theory.

colour theory.

There is a reply from Moon and Spencer clarifying some of the controversy.

2094 Lighting of Production Plant

LIGHTING FOR WAR PRODUCTION PLANTS—STAGE 3. J. L. Kamm (Lighting and Lamps, April, 1945, p. 24.) Reduction of brightness contrasts in war factories.

This is a general note setting out what the author calls the third stage of wartime lighting. The first was apparently the conversion of old plants, the second was the lighting of the new ones, and this third stage is the refinement of the installations, getting high contrasts on the work, and low contrasts between the work and its background,

and elsewhere in the visual field. The article largely advocates this objective. There are several useful illustrations.

2005

Factory Lighting

MAKING WORK LIGHTER (published 1945 by the Illuminating Engineering Society and illustrated by Fougasse). Popular pamphlet on factory lighting.

2096

Electric Wiring

USE OF RING CIRCUITS IN WIRING PRACTICE. (Journal of the Institution of Electrical Engineers, June, 1945, Part I, p. 215.) IEE wiring regulations being altered to validate ring main wiring.

The conflicting aim of more outlets at less cost is stated to be largely reconciled by the use of ring mains, but the system runs counter to the IEE wiring regulations at they stand. The latter are being reconsidered by the Institution to validate this arrangement of wiring.

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, 45, The Avenue, Cheam, Surrey.

2097

Electricity Installation

I have a client who wishes to convert a windmill to a summer cottage and use the motive power of the sails to generale his electricity. Could you refer me to any publication dealing with the technicalities of domestic private electricity installations?

A We regret that we have not been able to trace any publications on this subject. The use of wind power for such a purpose is, of course, not altogether unusual, but there may be great practical difficulties which will render the conversion uneconomic.

In theory it should be possible to gear the drive to a dynamo, but it might be an expensive matter, and the windmill would probably be noisy in operation, which might be annoying.

You might care to write to Messrs. Joseph Lucas, of Great King Street, Birmingham, 19, who produce wind-driven lighting equipment, but who (as we have verified) have not had experience of converting existing windmills. Alternatively, we can only suggest that you can get an expert to visit the site and make a report.

2098

Address of APGOSCR

What is the address of the Architecture and Planning Group of the Society for Cultural Relations with the USSR under the presidency of Sir Charles Reilly?

A The address of the Architecture and Planning Group of the Society for Cultural Relations with the USSR is: 91. Gower Street, London, W.C.1. The ive.

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THE ARCHITECTS' JOURNAL for September 6, 1945 [xlix

REMOVE RESTRICTIONS

on Planning

"The use of a local Gas Geyser system for a domestic hot water supply means greater freedom in house planning. With a centralized hot water system the draw-off taps must be carefully related to the heating source and to the hot water storage, and this greatly detracts from the flexibility of any building plan. Other considerations may, upon occasion, make it undesirable to plan compactly, but it should be remembered that an open plan embodying a central system of supply necessitating long pipe-runs entails high circulation losses. A local gas geyser system, however, imposes no planning restrictions; the geyser itself occupies no floor space and storage space for fuel and water is unnecessary. These advantages suit the present tendency in domestic designing to make use of every square foot of space. Gas geysers also allow considerable economies in flue construction and plumbing." C. R. FOWKES, A.R.I.B.A., AM.T.P.I.

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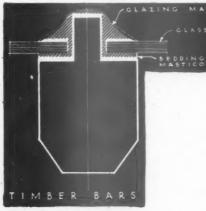
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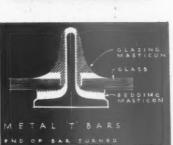
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1. Th late (all-persal P Report.

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Speeches and lectures delivered before societies, as well reports of their activities, are under this dealt with 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 Except where inverted commas are used, the reports are summaries, and not verbatim.

TCPA

Memorandum

Below is published in full the memoandum issued by the Town and Country Planning Association, which gives the outline of what the Association believes to be a DESIRABLE AND PRACTICAL PLANNING POLICY. memorandum has been sent to the heads of the Ministries concerned and to Members of Parliament.

"The new Parliament will no doubt treat the Housing emergency as a matter of first mority. The need of this is common ground. The present memorandum raises the closely related issue of the Town and Country Planning policy within which both the emergency and permanent Housing country Planning policy within which both the emergency and permanent Housing programmes must fit. Town Planning policy cannot wait, because the siting of the first houses built affects permanently the whole future of towns and countryside. A good Planning policy does not mean delay in Housing; it may mean greater speed.

1. The Accepted Planning Policy: ate (all-parties) Government accepted a Dispersal Planning policy based on the Barlow Report. It may be briefly summarised thus: (a) Further spread of big cities to be

stopped. (b) Congested centres of cities to be "de-congested"—that is, reduced in density by locating part of their industry and population elsewhere, with more gardens and open space.

Green (country) belts to be reserved around and between cities and towns, thus safeguarding agricultural land ad-

joining cities.
"Overspill" of population and industry from congested areas to be "relocated" in satellite towns and existing country towns, separated from the big cities by the country balls.

the country belts.
(e) Future development and redevelopment to be in the form of complete communities, where people can live reason-

ably near work and enjoy a full range of social and cultural amenities.

2. Steps already taken on the Right Lines: A Ministry of Town and Country Planning was created in 1943. By the Act of that year all land is now technically under Planning control. The Act of 1944 gave powers for public acquisition of areas of war damage and of bad or obsolete de-velopment, and for their redevelopment under a leasehold system; land can also be acquired for relocation of the "overspill" of industry and population.

A number of Regional and City advisory

Plans have already been prepared on the basis of the accepted Dispersal policy—notably the Plans for Greater London, Manchester and Plymouth. These have still to be translated into Executive Planning Schemes.

3. Steps taken on Wrong or Doubtful Lines: On the other hand, some extensive housing schemes are being prepared, and even started, which ignore the new Planning policy so far. Thus, many cities and towns are preparing Housing Estates in suburbs, are preparing Housing Estates in suburbs, distant from workplaces and eating further into what ought to be their country belts. Also, in some cities the absence of any definite plan for dispersal is causing the attempt to start central rehousing at too high a density—which means an excessive proportion of flats as against the more popular (and more human) houses with gardens, and an insufficient provision of public onen spaces. public open spaces.

4. Need of More Decided Action: A concerted policy, operated by all the Departments concerned, could rapidly correct this situation without delay to Housing. The main measures necessary are briefly summarised.

5. New Towns and Town Extensions: In 5. New Towns and Town Extensions: In the regions of all congested and overgrown cities, sites should at once be acquired and competent bodies set up, for the building of new satellite towns and planned community extensions to suitable country towns. The situations of possible new towns and country-town extensions have already hear cheere in Personal Plans and already been chosen in Regional Plans, and the Ministry of Town and Country Plan-ning has the information necessary for siting others. Priority for housing should be given to the sites of these future communities, even if for the time being transport to existing workplaces has to be provided and subsidised.

Location of Industry: New legislation should be introduced to the effect that the settlement or resettlement of any industrial or head-office business in a congested city needing dispersal, or in a country site not intended to be a town, should not be permitted, except under express licence. Powers should also be taken to promote the establishment of Trading Estates in the intended dispersal centres (satellite towns intended dispersal centres (satellite towns and country towns), and to give industry and office businesses encouragement and facilities to settle therein. (Many would be glad to do so). In the meantime, the existing system of licensing of building should be operated to prevent resettlement in congested cities and encourage the needed degree of dispersal. Subject to the necessary restrictions, industry should retain free choice of location as between the permitted areas. mitted areas.

7. Definite Planning Standards: The Ministry of Town and Country Planning should formulate standards of maximum housing density, and of minimum open housing density, and of minimum open space, to be applied in the redevelopment of congested cities. Standards have been worked out for housing density which would enable city-dwellers who wish to do so to have family houses with some garden-space; and these should be stated, and no departure from them allowed without the express consent of the Minister for good reasons. Proper standards of necessary open space have also been worked out these also should be specified and not out; these also should be specified and not allowed to be varied except by express consent. Thus on redevelopment conconsent.

gested cities could gradually be transformed into good places to live in.

Agencies of Promotion and Building: Some of the new communities could be developed by the larger city authorities (e.g., L.C.C. and Corporations of Manchester and Leeds) or by other authorities or groups of authorities. But there should groups of authorities. But there should also be public corporations promoted by the Ministry of Town and Country Planning or by private enterprise, to build communities and trading estates. Sites should be compulsorily acquired for approved schemes, and public loans should be made available. Powers similar to those given to the Board of Trade for the "unemployment" development areas should be given to the Ministry of Town and Country Planning for "dispersal" development areas.

9. Land: Compensation and Betterment:
This vital problem was not solved by the
Coalition Government owing to party
differences as to the method. The need,
for new compensation provisions arises in

wo types of case:

(a) Where part of a congested city is to be redeveloped at lower density, land values will be reduced by insistence on values will be reduced by insistence on the reduction of the number of dwell-ings per acre, and by the imposed change of use of business land to housing, or of either to open space.

(b) The preservation of green (country) belts around cities will remove pros-pective "building value" from large

areas.

In both these cases assistance must be National Compensation Fund. Otherwise the authority cannot restrict development without grave hardship to individuals.

In many cases the values from the re-stricted land will be transferred elsewhere, e.g., to other towns and new towns where e.g., to other towns and new towns where the industry and population are relocated. Alternative proposals are made in the Uthwatt Report and the Government White Paper on Control of Land Use for the collection of a "Periodic Levy" or a "Betterment Charge" on land the value of which is enhanced by the shift of popu-lation

In the long run Compensation may be largely balanced by Betterment. But it is agreed that this would not be so in a short period. An advance to a Planning Compensation of the state of the pensation Fund by the Exchequer is therefore an urgent necessity if planning is to be made practicable.

10. Reasons for Urgency: Dispersal Planning is a long-term policy and the rebuilding involved may take 20 to 30 years. But any building done now, whether permanent or temporary, will affect the location of industry and population for a century. It is vital to start on the right pattern now.

pattern now.

11. No Delay to Housing: Diversion of part of the national effort to the new satellite towns and country-towns extensions will not delay housing by a day. In many city centres sites for housing cannot be found, and houses are therefore being built on the city fringes, as between 1919 and 1939. This involves just as much estate development (new roads, services, etc.) as would be necessary for the new communities. With imaginative planning, the same expenditure of money and effort would produce results immediately quite as effective in relief of housing pressure, and far more satisfactory in the long run.

SUMMARY OF RECOMMENDATIONS 1. Concerted operation of Dispersal Planning Policy by Departments concerned with Planning, Housing, Building and Factory Location.

Factory Location.

2. Sites to be publicly acquired for New Towns and Extensions of Country Towns as dispersal centres. Local authorities and public utility corporations to be empowered and financed to undertake development.

3. Ministry of Town and Country Planning to have similar powers for promoting

provision of Trading Estates in Satellite Towns and Country Towns as Board of Trade has for Development Areas under Distribution of Industry Act.

4. Full priority to be given for housing and factory building in the new communities

munities.

5. Redevelopment of "blitzed" and "blighted" areas and cities to proceed with all speed at proper standards of density and open space.

6. Location of industry to be restricted in congested cities and encouraged in dis-

persal communities.

National Compensation Fund to be set up to make grants to local authorities for compensation to land-owners; (a) for reduced values in decongested areas and (b) for reservation of country belts. To the extent that land is not nationally acquired, a Betterment Charge to be made where values are increased by shifts of population.

TCPA

St. Baker

At the Planning Centre, 28, King Street, W.C.2. Lunch-time meeting of the Town and Country Planning Association. Talk on THE PLACE OF TREES IN TOWN AND COUNTRY PLANNING, by Richard St. Barbe Baker. Chairman: Lady Seton.

R. St. B. Baker: Trees are the very basis of our life; it is not possible to exist without them, or even breathe without them. create the right atmosphere for breathing. The larger the area allosted to industry, the greater forest area is needed to purify the air. Trees are filters of bad air and a belt of woodland is a definite necessity near an industrial area.

Although trees are usually ceeded a place

Although trees are usually ceded a place in the æsthetic life of a town, it is seldom realised how necessary they are from a health point of view. All towns should belt of woodland or forestland as part of a surrounding green belt. In America it has been discovered that hospitals for chest complaints are more efficient when surrounded by trees. The patients are able to breathe purer air and so cures are achieved much more quickly. In France there exists a hospital which is surrounded by trees and which always escapes any pre-vailing epidemics: Trees do make the air clean and therefore new towns should be planned to include not only a surrounding green belt for recreation and food growing, but a belt of woodland to keep the air in the town as pure as possible. I believe the approach to this subject is biological. There is nothing new I can tell you about town and country planning, but I do urge you to remember, when planning for a green belt, that there should be an acre of woodland to each family. This is a high sta but one which should be aimed at. Whilst we have every sympath This is a high standard-

sympathy with people who hate cutting down trees, it is foolish to plan a district according to its trees, rather than in relationship to its wood-It may be necessary to fell a certain amount of woodland when a site is found suitable for building a new town, as a vista is needed as well as a system of tree lined

roads On this question of forest land one must learn to take a really long term view and judge what is best for the country as a whole. One must not become too parochial, but accept the fact that while a local authority understands the needs of the district, there must be direction from a National Planning Body to serve the interests of the whole nation.

Of the wood needed for our war effort in this country, 98 per cent. was produced

by the private land owner and one million acres have been felled to meet war needs. However, as in 1939 we were the worst forested country in Europe, the position now is serious. Before the war England had only 41 per cent, woodland, whereas France had 25 per cent., Germany had 26 per cent., and even industrial Belgium had 18 per cent. Sweden had as much as 50 per cent. to 75 per cent. forest land. The position in this country therefore is danger-Sweden had as much as 50 ous for the health of the people. England never has and never could be self supporting as regards timber, but it is easy to store trees, so that we could try to replace what we have lost.

As trees are growing they are helping the and. We could plant and replant and have a store of trees which are paying their way They require no elevators or barns or cold storage. A well managed forest will protrees that grow high in a small area and all the time that area is building up a new contribution to the health of the nation. Fine forests make fine men, and life on a forest holding is all that the best of us could desire.

I would like to see foresters in every new town, with village college centres in each village, where people could be taught about the forests and could start by learning handcraft and different branches of small wood industries. Local industries could be developed. There are many possibilities in this direction. I know, of course, that veloped. this direction. I know, of course, that timber production is the main industry connected with trees, but there are thousands of subsidiary ones. When I was in Welwyn Garden City I found it utterly impossible to buy toys made of local wood. Here is a craft which could be innovated. In Germany the woods provide small handcraft industries on which families work in the which add considerably to the winter and family funds. Toy making and carving are the most obvious, and Welwyn could easily become a centre for such small industries.

Before 1914 there were 400 known industries connected with trees. After 1918 there were 4,000. I do not know how many there are now, but it is quite certain that the uses for wood discovered during this war have added considerably to this figure. The Mosquito aeroplane is a good instance.

Wood is a reliable commodity. more aerodynamic than metal. It gives warning before it gives way. Wood will talk to you, metal will not. An outstanding example of this faet can be found in the coal mines. The miners prefer wooden It gives pit props to metal ones and have even gone on strike to keep them. Wood always tells them in advance when it is going to fall, but metal props give way without warning at all, and the men therefore appreciate that a wooden pit prop gives them a better chance of survival.

Cutting down timber for the money it shortsighted policy. denude a hillside of its natural growth of timber is to lay the soil open to erosion and swamping and to ruin it for food production. In this country we produce twice as much per acre as is the case in America and this can largely be accounted for by our ancient system of farming in small fields with hedgerows surrounding the tilled land. The Americans cannot understand our "old fashioned" farming methods and apparently fail to see that our success depends upon those very methods they would have us alter. We have no Dust Bowl in England, whereas in America great clouds of dust blow right across the continent, taking with them the farms—or rather the soil which has been worked to provide farms. It is the trees which make the soil. With their wonderful machinery the Americans have proved themselves extremely efficient destroyers. The Sahara must be 20,000 years old, but years the Americans have created a new Sahara entirely due to selfishness and greed. Australia is next in the list of de-structive efficiency farmers.

A lot of planning is being discussed from a wrong angle; for instance, we have heard of a plan to provide water for the whole the whole country, but nothing has been said about first collecting the water. It is the trees It is the trees which keep water circulating and available, and without trees the ground becomes swampy or porous according to the nature of the soil. Without trees the water of the soil. Without trees the water will disappear after the ground is drained. Trees would renew it. The south and southwest coasts of England have been steadily draining off their water for years and are doing a great deal of harm to the ground in consequence. When planning a project of the sequence when planning a project of the sequence when planning a project of the sequence without trees.

We cannot be without trees. years at least. We cannot be without trees. The broadleaf, hardwood tree produces very good soil and civilisation cannot exist with-True planning should aim out these trees. at true citizenship, so when planning a town try for one acre of woods to each family. Plant trees that can be utilised-but provide for tree planting. sary to good health. Trees are neces-

LMBA

uantities

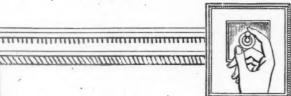
The Administrative Committee of the London Master Builders' Association, at its meeting last week, passed an URGENT RESOLUTION reminding its members that they are under pledge not to tender for work over £1,500 without quantities, and instructing them that this now applies to housing contracts.

The resolution is as follows: - " Members shall not tender in competition for contracts exceeding £1,500 in total value without bills of quantities being supplied. In the case of contracts for the repetitive con-In the struction of small dwelling houses the bilk of quantities shall be prepared in accordance with the principles of the code for the measurement of building work in small dwelling houses. This undertaking shall not apply to contracts for repairs or contracts for painting or decorating only.

Our reason for issuing this instruction to our members just now, said Mr. G. H. A. Hughes, Director of LMBA, is that we are at the beginning of a new era of building The Government, through the Ministry of Health, which has long opposed quantities for housing, has at last recognized their importance by urging Local Authorities to "make the fullest trial of the new system, that is, the modified bills of quantities which the National Federation and the Chartered Surveyors' Institution have worked out, in their new housing programmes.

The case for quantities is obvious. The provision of quantities makes clear to builders what they are tendering for, and that everybody is tendering on the same thing. It avoids the need for a large num-ber of builders getting out quantities for themselves before they are in a position to tender, and it forces the client to make up his mind what he really wants before the work begins, thereby allowing the proper organization to be set up for job. It ends the slip-shod methods which have too often been used in the past, by which some builders put in a price which they hoped would work out all right, but which very frequently didn't. This inevitably caused confusion, and many builders found themselves in financial difficulties.

The Ministry of Works Mission to the United States last year reported strong in favour of simplified quantities for use in connection with small dwelling houses, in the interest alike of efficient building and reduced costs.



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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.I, provides interesting illustrations of electrical applications in domestic and industrial premises.

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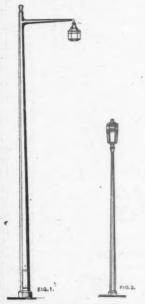
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Trade Notes

The introduction of the tapering hexagonal section, a new departure in the manufacture of steel street lighting standards, is being shown by Messrs. Poles, Limited, at the Association of Public Lighting Engineers' Exhibition at Glasgow, from September 11



It is a development of the tapering circular standard which received the highest commendation from the Royal Fine

Art Commission in their adjudication of the designs submitted in 1939.

Fig. 1 illustrates a column with a 25 ft. mounting height and an outreach of 5 ft. Detailed improvements include extra heavy gauge metal for the manufacture of the sections themselves and special considera-tion has been given to the design of a com-pletely detachable slotted steel instrument panel. This is fitted inside the column near the ground level for fixing auxiliary near the ground level for fixing auxiliary apparatus used in connection with gaseous discharge lighting, remote control equipment, fuses and switches, raising and lowering gear winch, etc. Access to the interior of the pole is obtained through an unobtrusive door which can be supplied with a simple locking device or alternatively a six lever lock. The base plinth can be cast in situ by standard steel shuttering. Alternatively a separate cast iron base can be supplied. As in the circular models the same facilities are available for carrying overhead electric lighting circuits and various types of bracket arms are manufactured, all of which are designed to blend in the general outline.

Fig. 2 shows the Hexagonal Standard specially designed for vertical lanterns at 15 ft. mounting height. It can be supplied with a large base fitted with the standard slotted steel panel and door as previously described. Swan-neck arms and other similar brackets are available to suit special reguirements for quantities. apparatus used in connection with gaseous

similar brackets are available to suit special

requirements for quantities.

The columns are galvanised by complete immersion in hot spelter after manufacture, to ensure maximum protection. An enamelled finish is available if desired, and where this is applied, the galvanised surface is specially treated to ensure efficient bond-ing of enamel and spelter. The Standards are Adastra products manufactured by Messrs. Poles, Limited, Nickel Works, Tyburn Road, Birmingham 24. Full details can be obtained from the new catalogue No. 240 just issued by the company.

Announcements

The following changes in the staff of the Home Timber Production Department of the Ministry of Supply are announced:—Messrs. G. H. A. Golding, Divisional Officer, Headquarters; F. J. Bailey, Divisional Officer, Nottingham; and Messrs. J. W. Tel-ford, C. I. Venables, and F. Taylor, Tradaford, C. J. Venables, and E. Taylor, Trade Production Officers in the Newcastle, Production Officers in the Newcastle, Shrewsbury and Exeter Divisions respec-Shrewsbury and Exeter Divisions respectively, have taken up appointments with the Control Commission for Germany. Mr. H. L. Wright has been appointed Divisional Officer at Exeter in place of Mr. N. J. Davies, who has been released to join the Malayan Planning Unit. Mr. R. J. Watersan has been appointed Divisional Officer. man has been appointed Divisional Officer at Nottingham. Mr. G. I. Mackenzie has been appointed Divisional Officer at Cambridge in place of Mr. J. Q. Williamson, who has returned to the Forestry Commission at the request of that Department for educational purposes. Mr. G. U. Thomson, Trade Production Officer in Scotland, has relinquished his appointment.

Mr. R. Stewart, L.R.I.B.A., having been re-

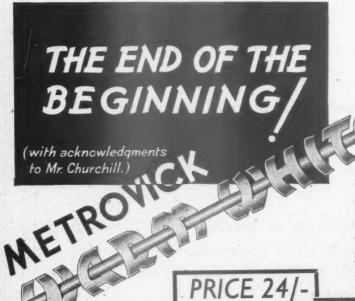
leased from Government service, has now resumed active practice at his old address, Brundrit & Stewart, County Square, Ulverston, Lancs, and will be pleased to receive recent trade catalogues, etc. (Tel., Ulverston

Mr. A. Lawrence Farman, F.R.I.B.A., having relinquished his appointment with the Ministry of Health, has now returned to private practice with temporary offices at 42, Richmond Park Road, London, S.W.14, at which address he will be pleased to receive up-to-date trade catalogues with particular reference to Municipal Housing.

Mr. Julian Leathart, F.R.I.B.A., has opened an office at Mount Lodge, Sunning-dale, Berks. Telephone: Ascot 300.

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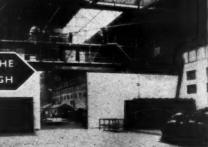
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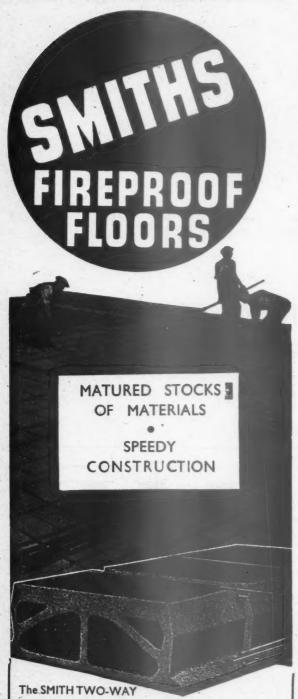
(e) good workability.

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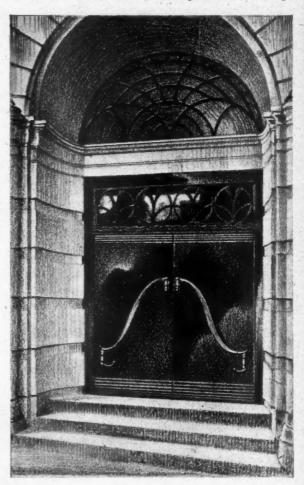
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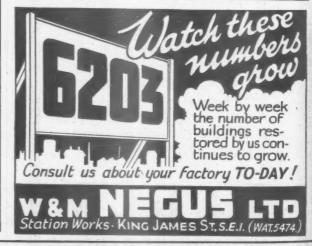


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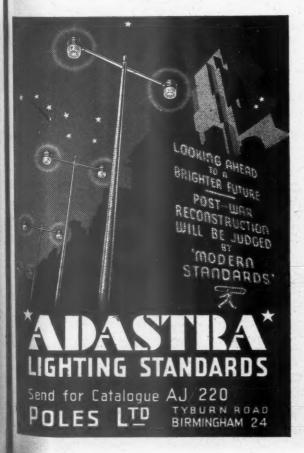




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Replies to Box. Numbers should be addressed care of "The Architects' Journal,"
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THE INCORPORATED ASSOCIATION OF ABCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (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.: SLOAME 5515. 991

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Applicants must be Registered Architects, and have had a wide experience in large scale

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of roads and sewers construction on large monaing Estate.

The cost-of-living bonus, which is additional to the above basic salaries, is in each case £59 15a. per annum, except the Junior appointments, where the bonus and salary is according to age.

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

The position with regard to National Service must be stated.

Applications, on forms obtainable, from the undersigned, accompanied by copies of not more than three recent testimonials (not returnable), must be received by me in the envelope supplied therefor, not later than 10 a.m. on Tuesday, 11th September, 1945.

therefor, not later than 10 a.m. on Tuesday, 11th Soptember, 1945.

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

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

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Vacancy in City Architect's Department for permanent Housing Architectural Assistant—2566 by 215 to £410 per annum, plus cost-of-living bonus, at present 21s. per week.

Preference given to candidates trained in a recognised School of Architecture, and who are A.B.I.B.A. Previous experience of municipal housing work desirable, but not essential. Successful candidate will be required to pass medical examination for Local Government Superannuation Act, 1937.

Applications, endorsed "Housing Architectural Assistant," to be received by Mr. L. H. Wilson, A.B.I.B.A., A.M.T.P.I., City Architect, by not later than 12th September, 1945.

Town Clerk.

Town Clerk Municipal Buildings, Canterbury.

BOROUGH OF WREXHAM.

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(1) ALCHITECTURAL ASSISTANT.

(2) PLANNING ASSISTANT.

Applications are invited for the following temporary appointments:—
(1) Architectural Assistant. Salary £400.£450 per annum, according to qualifications and experience, plus cost-of-living bonus.

(2) Planning Assistant. Salary £250 per annum, plus cost-of-living bonus.

The present cost-of-living bonus is at the rate of £59 19s. 3d. per annum.

For appointment No. 1 preference will be given to candidates who are A.R.I.B.A., and have had experience in housing, layout of housing estates, planning, and general architectural work.

For appointment No. 2 preference will be given to candidates with either parts of Testamur examination and/or Certificate in Town Planning of I.M. and Cy.E. or A.M.T.P.I., and having experience in layout of housing estates and general knowledge of planning work (required for a Neighbourhood Development Scheme).

The appointments are subject to the successful candidates passing a medical examination; to the Corporation's Sickness Regulations and Conditions of Service, and to determination by one month's written notice on either side.

Forms of application and particulars and conditions of the appointment may be obtained from the Engineer and Surveyor, 1, Grosvenor Road. Wrexham. Completed applications, with three recent testimonials, to be delivered to the undersigned in a sealed envelope, not later than 17th September, 1946.

recent the sealed envelope, and signed in a sealed envelope, self-signed envelope,

611

Guildhall, Wrexham. 22nd August, 1945.

NANTWICH URBAN DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment in the Engineer and Surveyor's Department, at a salary of £400 per annum, plus bonus, at present £59 16s.

Applicants must be Associates of the Royal Institute of British Architects, or hold equivalent qualifications, and are Registered Architects.

Candidates must have had experience in the design, preparation of working drawings, specifications, etc., for housing and other architectural work normally carried out by a Local Authority, under the direction of the Engineer and Surveyor.

Surveyor.

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

tion Applications, on forms obtained from the Engineer and Surveyor, Mr. E. H. Bailey, F.S.I., M.Ines, M. and Cy.E. Council Offices. Barker Street, Nantwich, stating age, qualifications and experience, accompanied by three recent testimonials, and endorsed "Architectural Assistant." must be received not later than 8th September, 1945.

D. TUDOR EVANS.
Clerk of the Council.

21st August, 1945

URBAN DISTRICT OF HECKMONDWIKE.

ARCHITECTURAL ASSISTANT (TEMPORARY).

Applications are invited for the appointment a Temporary Architectural Assistant, at a slary of £360, rising (subject to satisfactory prvice) by annual increments of £10 to £400 er annum, plus war bonus, at present £59 16s.

per annum, plus war bonus, at present per annum.
Applicants must be Registered Architects, and must have had experience in the preparation of plans. working drawings, specifications, and quantities for housing estates, and in general architectural work.

Applications, stating age, qualifications and experience, accompanied by copies of two recent testimonials, must reach the undersigned not later than 17th September, 1945.

GEORGE HOLT.

Clerk of the Council.

6 Church Street, Heckmondwike.

LONDON COUNTY COUNCIL.

The following full-time Teachers are required as soon as possible at the Hammersmith School of Building and Arts and Crafts, Lime Grore, Shepherds Bush, W.1.

(1) TEACHER OF BUILDING CONSTRUCTION AND GEOMETRY in the Junior and Senior Building Schools. A knowledge of building organisation and experience in brickwork an advantage.

ing organisation advantage.

(2) TEACHER OF ARCHITECTURAL DRAW.
ING., DESIGN AND ASSOCIATED SUBJECTS in the Junior and Senior Building Schools. Ability to assist with History of Architecture, etc., a recommendation.

Appointments will be temporary, subject to

Ability to assist with History of Architecture, etc., a recommendation.

Appointments will be temporary, subject to review at any time and in any event at the end of the war. Salaries in accordance with Burnham Scale, together with London allowance and additions for qualifications and training as applicable. Application forms. T.1/40, obtainable from the Education Officer (T.11), County Hall, S.E.1 (stamped addressed envelope necessary), returnable by 22nd September, 1945.

WELLINGBOROUGH RURAL DISTRICT COUNCIL.

HOUSING AND SURVEYOR'S DEPARTMENT. APPOINTMENT OF TECHNICAL ASSISTANT.

Applications are invited for the above appointment. Candidates must have had experience in an Architect's or Surveyor's office, and be capable of making Housing Surveys.

Applications, stating age, salary required, and full particulars of experience, accompanied by

Applications, stating age, salary required, and full particulars of experience, accompanied by two recent testimonials, should reach the undersigned not later than Tuesday, 11th September, 1945, endorsed Technical Assistant.

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. Any further particulars required can be obtained on application.

Canvassing members of the Courally ithe

application.
Canvassing members of the Council, either directly or indirectly, is strictly prohibited. and will disqualify any candidate.
H. C. HORTON,

Clerk of the Council.

18. Oxford Street, Wellingborough.

BOROUGH OF SCUNTHORPE.

Applications are invited for the following appointments in the Borough Engineer and Sur-

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

(a) PERMAN ENT ARCHITECTURAL ASSISTANT. Salary £400 per annum, plus cost-of-living bonus, at present £59 15s. per annum, applicants should hold a recognized Architectural qualification, and have had experience in housing.

(b) PERMANENT BUILDING INSPECTOR. Salary £350 per annum, plus cost-of-living bonus as above. Applicants should have had experience in the examination of deposited building plans, and supervision of building operations. The appointments will be subject to the Local Government Superannuation Act, 1937, terminable yone month's notice on either side, and the successful candidates will be required to pass a medical examination.

Applications, stating age, qualifications and experience, endorsed "Architectural Assistan" or "Building Inspector," as the case may bt, accompanied by copies of two recent testimonials, must reach the undersigned not later than 12th September, 1945.

W. P. ERRINGTON, Municipal Offices, 34, High Street,

Municipal Offices, 34. High Street, Scunthorpe, Lincs. Scunthorpe, 28th August, 1945. 633

BOROUGH OF LUTON.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT to the Borough Engineer. of 230 per annum, rising by annual increments of 215 to 2355, plus cost-of-living bonus, at present at the rate of 259 16s. per annum. The position will be a temporary one in the first instance, but 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.

candidate will be required to page examination.

Applicants should have had some practical experience after completion of training, and have made specific progress in obtaining a recognised professional qualification.

Applications diving navigendary of age, train-

professional qualification.

Applications, giving particulars of age, training, experience and qualifications, and stating to the properties of the properties of the forwarded to the Borough Engineer, Town Hall, Luton, not later than the 22nd September.

All, Luterin, 1946. Canvassing will disqualify. Canvassing will disqualify.

28th August, 1945.

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BOROUGH OF SOUTHALL.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant on the permanent staff of the Council. Salary, £366 x £15-£425, plus cost-of-living bonus, at present £59 16s. per asum. Commencing salary according to qualifications and experience Candidates should be registered architects, and preference will be given to members of the Royal Institute of British Architects. Experience in preparation of working drawings, specifications, surreying and setting-out in connection with bousing works, is desirable.

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

Applications must be submitted on the official form, which should be obtained from, and sterned to, the Borough Engineer, Town Hall, Southall, Middlesex, with copies of three recent testimonials, not later than noon on September 18th, 1945.

Canvassing any member of the Council or any

18th, 1945. Canvassing any member of the Council or any Committee thereof, directly or indirectly, will

M. LINDSAY TAYLOR, Town Clerk. Town Clerk's Offices, South Road, Southall, Middx. 31st August, 1945.

BOROUGH OF WEDNESBURY.

BOROUGH ARCHITECT/ENGINEER'S - DEPARTMENT.

ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment. In the Borough Architect/Engineer's Department, at a salary of £450 per annum, plus war bonus (at present £59 los, per annum). Preference will be given to candidates trained in a recognised Architectural School and are ARLBA.

A.B.I.B.A.

The successful candidate will be required to pass a medical examination for the purpose of the Local Government Superannuation Act, 1937.

Applications, endorsed "Architectural Assistant, stating age, qualifications, experience, and present position, and accompanied by copies of not more than two recent testimonials, to be sent to the undersigned, not later than Saturday, September 22nd, 1945.

ARTHUR BOOTH, F.R.I.B.A.,

Borough Architect/Engineer.

Town Hall, Wednesbury.

638

Architectural Appointments Vacant
Four lines or under, 4s.; each additional line, 1s.

MANCHESTER.—Architectural Assistants required for industrial and housing work;
good prospects. Write fully, stating age, experience, qualifications, and salary required,
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ARCHITECTURAL DRAUGHTSMAN required in Drawing Office in Maidstone district; position offers good prospects for suitable applicant. Write, stating age, experience, and salary required, to Box 613.

PROGRESSIVE Firm of Architects, with fifty years' standing in the Midlands, have vacancies for one or two experienced Architectaral Assistants; good salaries paid to suitable applicants, who must be first-class draughtem and well trained for important large scale work; a similar vacancy occurs in our London office. Please state qualifications, age, and experience to Box 600.

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A VACANCY occurs for two Architectural Assistants, with a minimum of at least 5 years' experience of preparing plans, details, specifications, etc., in the Architect's department of London office or multiple company; salary 2400-2450 per annum, according to grade. Write stating age, experience, and when available, to Box AV.8944, 10, Hertford Street, W.1.

DOX AV.8944. 10, Hertford Street, W.1.

ARCHITECT'S SENIOR ASSISTANT required in N.E. London; experienced in design of industrial and commercial buildings; state age, experience, and salary required. Box 604

JUNIOR ASSISTANT required immediately by Chartered Architects, in South-East England; must be a good draughtsman, and capable of preparing working drawings and details from rough sketches; write fully, stating age, experience, and salary required. Box 631.

RCHITECTURAL ASSISTANT, with bousing

A RCHITECTURAL ASSISTANT with housing and surveying experience, required. Telephone Central 6685 or write Box 621.

JUNIOR ARCHITECTURAL ASSISTANT required for Birmingham Architect office. Apply, telephone Birmingham Central 3628 or write Box 642.

SENIOR ARCHITECTURAL ASSISTANT required for Birmingham Architect office.
Apply, telephone Birmingham Central 3628 or write Box 643 State experience and salary

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R. A. F. Officer (air crew), with pre-war experi-tione as Architectural Representative, wishes to contact progressive firm with view to engagement on release from H.M. Forces.

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REGISTERED ARCHITECT, aged 33 years, with good knowledge of quantities, requires position with London or South-East Coast firm of Architects or Surveyors; capable of taking complete charge of small architectural practice. Box 94.

A RCHITECT. 40 (Major R.E., Group 15), pre-war office manager to well-known London architects, considerable experience large scale office and flat buildings in London, and of L.B.A., and contract and building law, offers services in similar capacity; salary £1,000 p.a., or arrangement with view to partnership. Box 95.

A R I R A (32), available part-time: London:

R.I.B.A. (32), available part-time; London;

• town planning or modern work. Box 96.

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Box 101.

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A RCHITECT, with war damage experience in London, offers spare-time assistance with surveys, estimates, and preparation of conversion schemes. Box 99.

Schemes. Box 99.

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A. B.I.B.A. (39), with over 20 years' varied
experience of important work, desires post, preferably near London; particularly interested in design. Box 104.

PERSPECTIVE ARTIST; work promptly executed, in any medium; moderate fees; London and West of England. Box 105.



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EXPERT Stress Analyst and Structural Designer, B.Sc. degree, with outstanding record in structural design, offers technical assistance or consultant service to Architects and Structural Engineers, especially those engaging in bold design projects; specialist in welded steel frameworks, reinforced concrete, curved beams, bridges and portais; excellent knowledge of the properties and economic use of light alloy materials; thoroughly conversant with technical literature here and abroad. Box 593.

Competition

Six lines or under. 8s.; each additional line, 1s.

COLOMBO CATHEDRAL COMPETITION.

The Colombo New Cathedral Committee, in association with the Standing Committee of the Diocesan Council of the Church of Ceylon, invites architects who are qualified Members of the Royal Institute of British Architects or Allied Bodies to submit in competition designs for the proposed Cathedral of The Holy Cross, together with Bishop's House, Divinity School, Diocesan Hall and Offices, in Colombo, on a site adjoining Buller's Road in that city. The competition is being organised by the Royal Society of Arts, London, on behalf of the Colombo New Cathedral Committee.

Premiums: £500, £200, and £100.
Last day for submitting designs: 31st December, 1946.
Assessor: Sir Giles Gilbert Scott, O.M., R.A., 3, Field Court, Gray's Inn, London, W.C.1.
Conditions of Competition may be obtained on application to the Secretary, The Royal Society of Arts, 6, John Adam Street, Adelphi, London, W.C.2. Deposit £1.

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As originators of the Auto-Recorder System of Machine Milking, we have had extensive experience of planning layouts to accommodate the new technique. The Ministry of Agriculture's Clean Milk Bill, when passed, will mean a large increase in the number of new or modified farm buildings required. The position will be affected also by the findings of the English and Scottish Commissions on this important subject. The service of our Technical Department is available to any Architect who may be consulted in these matters. Write in confidence to: Gascoignes (Reading), Ltd., Berkeley Avenue, Reading.

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Session begins 24th September.

Prospectus from the Registrar. 610

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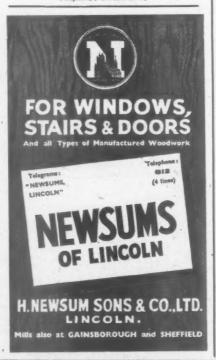
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The Architects' Journal for September 6, 1945 [lxiii London County Council.

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Principal: H. W. MOLE, F.R.I.B.A., M.I.Struct.E.

Session 1945-46.

New session commences on 24th September, 1945. Enrolment week: 17th September, 1945.

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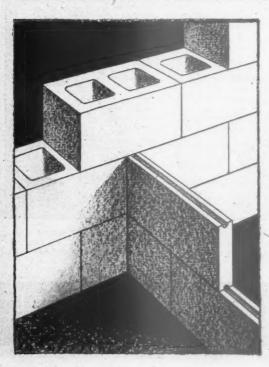
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