

#### VECTAIR CONVECTION HEATING

Better for Health...Better for Design

BRITISH TRANE CO., LTD., Vectair House, 52, Clerkenwell Close, London, E.C.I. Tel.: Clerkenwell 6864 & 3826. Agencies at: Belfast, Birmingham, Cardiff, Dublin, Glasgow, Liverpool, Newcastle, Sheffield, and Torquay.

## "HARCO" VENTILATORS

"HARCO" Self-acting Ventilators ensure an effective draught-free method of ventilation for buildings of any type—Camp Hutments, Hostels, Hospitals, Schools, Workshops, etc.

> "HARCO" Ventilators are made in a wide range of patterns and sizes.

MILD STEEL VENTILATING PIPING in any size, gauge or section.

GA HARVEY & CO. (LONDON)

Write for illustrated Catalogue K 481. No. 104 With round pipe stem.

No. 102

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WOOLWICH RP LONDON S.E.7.



### Gas gives the sun a holiday

Speed of heating ... wide variations of temperature under strict automatic control ... Gas ... essential to labour-saving ... clean, reliable, and economical ... the fuel for reconstruction.

Labour-saving gas appliances in hotels, hospitals, factories, laundries, and in millions of homes . . . for troublefree cooking . . . for constant hot water . . . for clean, healthy warmth . . . for clothes boiling, cleansing, sterilizing . . . and for efficient drying cupboards that "give the sun a holiday."

RADIATION LTD. are manufacturing and supplying gas appliances conforming fully to specifications drawn up by Ministries concerned with Housing, and will be pleased, on request, to furnish full particulars to Local Housing Authorities.

#### Specify NEW WORLD GAS APPLIANCES

AN FUELON



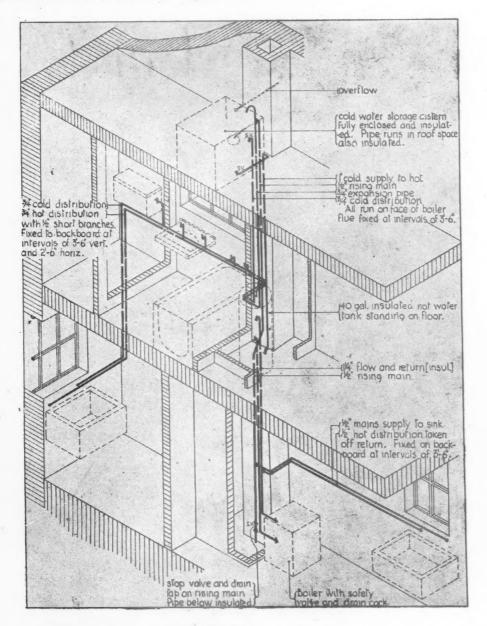
RADIATION HOUSE, ASTON, BIRMINGHAM 6. SHOWROOMS AND LONDON OFFICE: 7 STRATFORD PLACE, W.1.



Lifts by Morris

Herbert Morris Limited Loughborough

Driving gear for a Morris lift



### MODERN PLUMBING is based on drawing board

planning and off-site preparation

Pre-planning of plumbing layouts enables proper consideration to be given to close grouping of appliances to shorten pipe runs, obtaining concealment and support from the structure and providing proper access. Off-site preparation reduces and simplifies site work and enables the most suitable labour to be used for each operation. Together, they save man-hours and secure the highest efficiency and economy in both installation and operation. 13

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All enquiries relating to the use of LEAD for building purposes should be addressed to: Technical Information Bureau of

LEAD INDUSTRIES DEVELOPMENT COUNCIL, 34 Ebury Street, London, S.W.I

THE ARCHITECTS' JOURNAL for August 2, 1945 [vii



### PROTECT THEIR CLOTHING IN STEEL

Sankey-Sheldon Steel Lockers give the maximum protection against fire, damp, dust and thieving. They are all-steel—strong, space-saving, hard-wearing, good-looking. Doors are close-fitting and locked with good Spring Locks. The standardised unit construction makes it easy to expand or alter the installation. Steel lockers store so much on so little floor space. Available in sing'e, double or four tiers in several sizes with a range of standard fittings that meet all the requirements of works, offices, schools, hotels, golf clubs, etc.

### SPECIFY STEEL LOCKERS

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Chief Office : 46 Cannon Street, London, E.C.4.

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Enquiries to Sankey-Sheldon, Dept. A.J. 46 Cannon Street, E.C.4

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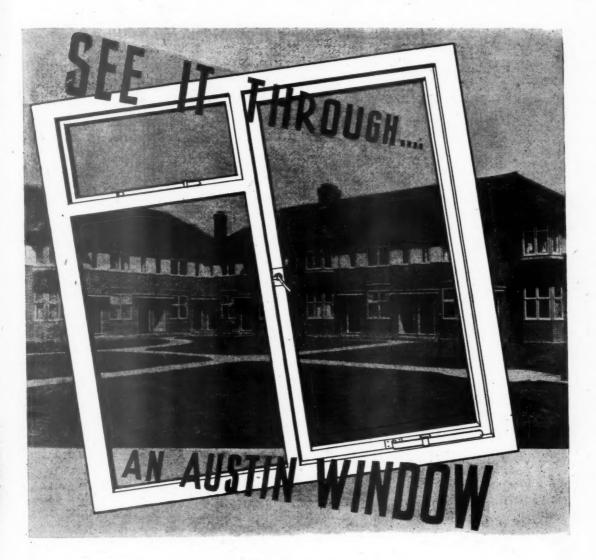
#### BUILDING & CIVIL ENGINEERING CONTRACTORS -----



At the Service - for the Service of Architects

W.H.GAZE&SONS LTD., 40, CONDUIT STREET, LONDON.W.I.-KINGSTON-ON-THAMES-SURBITON-WALTON-BATH





Good design and skilful seasoning make it possible to use window sections which are slighter than they used to be whilst still retaining the sturdiness for which Austins Windows have always been famous.

Our post war windows will be to the **GMA** design which is simple to produce, good looking and uses a minimum of timber.



Stoneham & Kirk

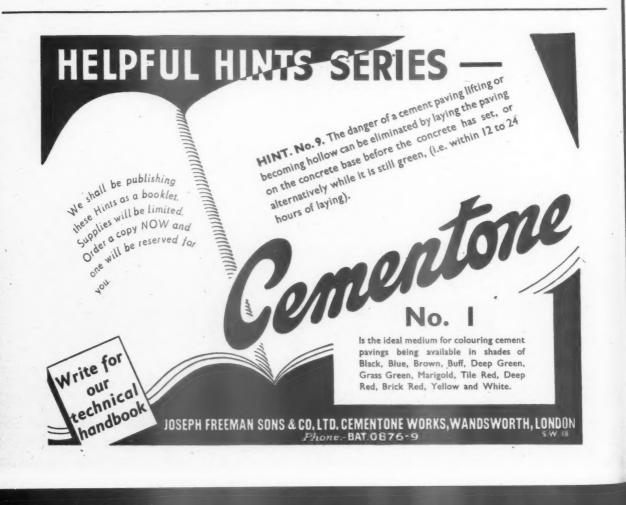


Inseparable partners, these, at the post - war conference table — Research providing the new ideas for Production to put into practice. The important new uses already found in this way for aluminium and its alloys in the prosecution of war are available *now*, so are supplies — in large quantities, for the rehabilitation of peace.

#### ALUMINIUM UNION LIMITED

A fully-owned subsidiary of Aluminium Limited, Montreal, Canada

GROSVENOR HOUSE, PARK LANE, LONDON, W.1



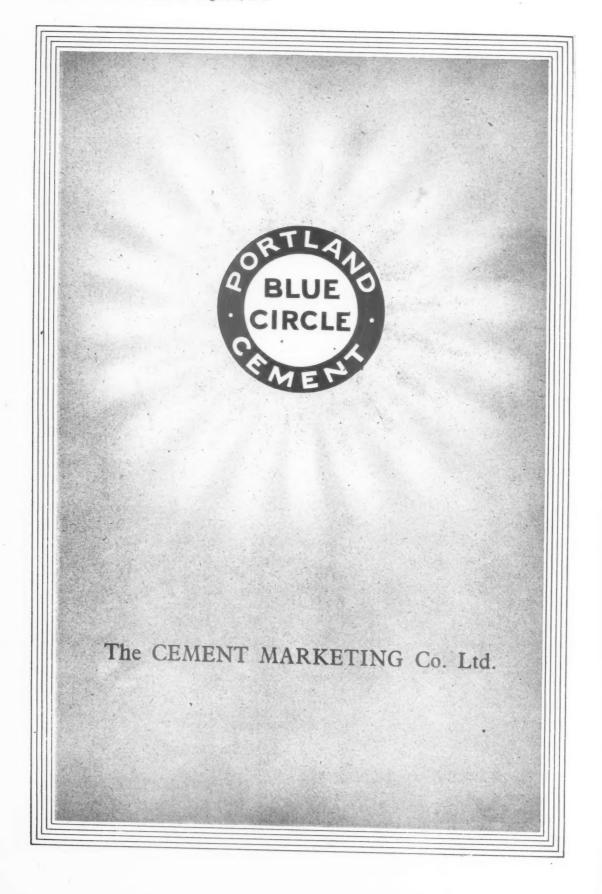
# LIFTS by PICKERINGS

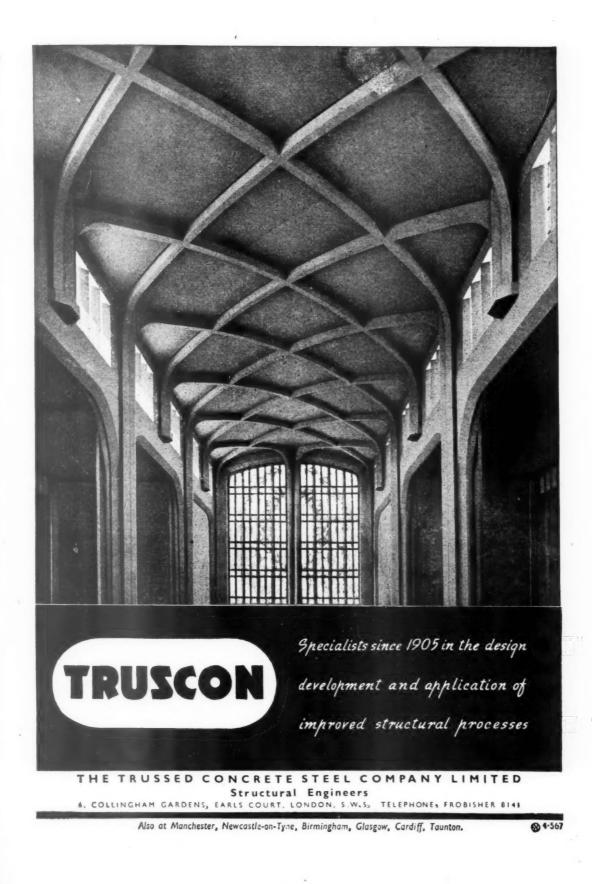
#### PICKERINGS LIMITED

ELECTRIC LIFT, HOIST and CRANE MANUFACTURERS GLOBE ELEVATOR WORKS, STOCKTON-ON-TEES London Office 116, VICTORIA STREET, S.W.I Telephone :- Victoria 9860

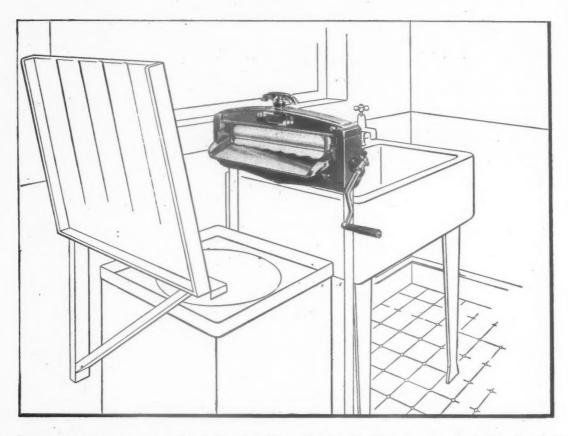


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# Fairy Tales brought bang up-to-date



"WHY GRANDMOTHER - what a bent back you have !"

"Because for years I stooped over a sink much too low for me, my dear."

"Why Grandmother - what a bad skin you've got !"

"That comes from a lifetime's toiling away on washdays, with a huge fire in the hottest weather to boil up my copper, my dear."

"Why Grandmother - what rough, red hands you have !"

" If you used the huge, heavy mangle I had to use, you'd have rough red hands, too, my dear."

But no. Grand-daughter is going to have no ugly hands, no bent shoulders, no ruined complexion. For she will run her new home in a new world. A world which plans kitchens for its housewives as it plans the most up-to-date factory for its workers.

A recent survey which has given careful thought to this question lays down the minimum requirements of a homekeeping woman. A sink of the worked-out correct height and depth, a removable or hinged draining board, a wash-boiler adjoining the sink and under the draining board. It lays stress, too, on the importance of always making space for a rubber-roller wringer, which ensures a perfect wash, with no aching backs or sore cramped hands. That means, of course, the finest of Wringers — the Acme.

A plan for a post-war home which did not include as its most important part kitchen-planning would be a poor plan. And kitchen-planning which did not give careful attention to the home laundry, would not be kitchen-planning at all.

Home laundry conditions are laid stress on in surveys accepted and supported by Ministries and local authorities. One primary condition is that space should always be provided for a rubber-roller wringer. The wringer the housewife herself knows from experience is the best, is the Acme. That is the cleanser-wringer she will demand as part of the sinkunit in her future kitchen.

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.



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the foundations of modern resin moulding. Starting from phenol and formaldehyde, he produced not only moulding powder, but also synthetic varnish resins suitable for the manufacture of laminates, finishes and cements.

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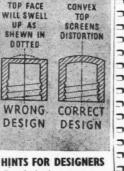
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THINGS TO COME For the present we must be content with domestic fittings, fixtures and utensils made in plastics, but who knows what lies ahead ? Many war-time uses have proved that plastics possess adequate strength, weatherresistance, etc., for less highly stressed structural parts such as windows, door frames and the like. Perhaps these will come in the near future.



In designing a com-ponent with internal thread, avoid a flat top In production a face. gas pocket would occur on the underside face of the moulding and so distort the top face of the moulding. The correct design calls for a convex top which would screen any distortion which takes place during the moulding operation.



#### DOMESTIC RECONSTRUCTION

The urgent need to provide new housing for the men and women returning from the Forces is a No. I priority which most manufacturers are anxious to meet.

We ourselves have not built an "All-Plastic House" nor have we any desire to live in one ! Many ideas have been suggested for plastic applications which we consider are only suitable for the de luxe dwellings of the distant future.

For the present let us be practical. Our service\* offers to equipment manufacturers high quality plastic products for electrical appliances, cookers, refrigerators and sanitary ware.

\*Manufacture of Products in Plastics, Rubber and Synthetic Rubbers.



Telephone : FARNWORTH 676 (four lines) Telegrams : EBONITE, LITTLE LEVER xvi] THE ARCHITECTS' JOURNAL for August 2, 1945

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ROOF SHEETING AT 6'6" PURLIN CENTRES AND THUS EMINENTLY TLAP ET 45" NETT COVER SUITABLE FOR REPAIRS TO INDUSTRIAL BUILDINGS 15" CENTRES CROSS SECTION THROUGH SHEET ASBESTOS - CEMENT REINFORCED TROFSEC SHEETS FIXING DETAILS Made in lengths which are multiples of 6" and are stocked up up to 10" 0" lengths. Standard width, 48". Standard thickness, "". Fix to steel purlins with hook bolts, with special galvanised diamond and bitumen washers. and to timber purlins with 6" mushroom head WO PIECE ADJUSTABLE TWO PIECE ADJUSTABLE drive screws. Made and stocked in: Grey, Red, Russet Brown and Green. ACCESSORIES Close-Fitting Ridge Capping. Plain Wing Ridge Capping. North Light Ridge Capping. 2. Overall depth of corrugations,  $3\frac{1}{2}$ ". 3. Actual cover of a 7' 0" sheet as 125 Barge Boards. Actual cover of a 7 0" sneet as laid, 6 6" x 3 9".
 Spacing of purlins up to 6' 6" centres. Horizontal supports for side sheeting up to 6' 6" centres if sheets are fixed venticable. Ridge Finials. Eaves Filler Pieces. EAVE EAVES FILLES Eaves Closure Pieces. BARGE PIECE PIECE Hip Tiles. Dormer Ventilators. "S" Type Louvre Bla AREA vertically. 5. Number of square yards of sheeting per ton is approxi-mately 100. "S" Type Louvre Blades. "Z" Type Louvre Blades. Apron Flashing Pieces. Corner Pieces. No. OF COVERING AREA IN COVERIN No. OF SIZE 9. 0. 9. 6. 4 444 4 222 4 000 3 778 3 556 3 333 3 111 2 889 2 667 2 444 2 222 157.87 149.98 142.08 134.19 126.30 118.40 110.51 102.62 94.72 86.83 78.94 71.04 63.15 52' 56' 66' 67' 71' 75' 79' 82' 86' 90' 94' 97' 47 11 15' 19' 22' 30' 34' 37' 45' 49' 0"9" 6"3" 9" 6"3" 9" 6" 3" 9" 14 15 16 17 18 19 20 21 22 23 24 25 26 1234567891011213 matery 100.
Miniumum end lap of roofs, 6".
Side lap, 3".
The weight of 100 sq, ft. as laid for roofing with fixing accessories is approximately 455 lbs., or 41 lbs. perc and Soaker Flanges Dead Lights. Opening Lights. Curved Sheets. Curved-End Sheets. or 41 lbs. per sq. yd. Window Units, etc. 6 FLASHIN PIECE łC FOR COMPLETE TECHNICAL DETAILS AND METHOD OF FIXING WRITE FOR CATALOGUE SECTION 25

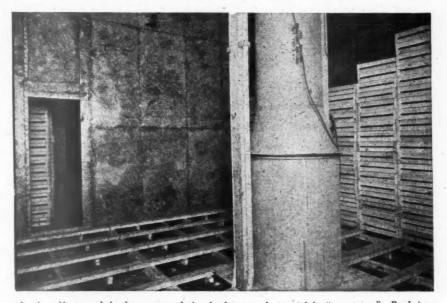
THE UNIVERSAL ASBESTOS HANDCRAFT WORKS . TOLPITS LANE . MANUFACTURING CO., LTD. rd 3371-3 Watfo

> BRASS BUSHED NECK SERRATED SPINDLE

> > ORDERING

SPINDLE OPENS OUT IN NECK OF KNOB AND IN FOLLOWER, ELIMINATING ALL RATTLE

SERRATED PIN

The Choice of those Planning for Tomorrow...TODAY mm Inn AND COMPANY LIMITED. SURREY WORKS, SMETHWICK, 40, ENGLAND 

In the cold store of the future some of the chambers may be intended for "gas storage." Rendering a store gastight requires very special knowledge and experience. We have been responsible for the design, construction and equipment of many gas stores and while it is obvious that we cannot offer to divulge all the laboriously acquired exclusive informatian we have amassed on this subject, without going so far we can do much to assist the architect who is faced with this problem in planning, and that assistance we are always glad to give quite unconditionally.

The innumerable applications of

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# REFRIGERATION

in Department Stores, Retail Shops, Factories, Office Buildings, Hospitals, Laboratories, Schools, Restaurants, Cafés, Theatres, Cinemas, Hotels, Dairies, Breweries, &c., often present Architects with unfamiliar problems of a highly technical nature, which are best solved by obtaining the expert assistance and co-operation of

# J. & E. HALL

LIMITED REFRIGERATING ENGINEERS DARTFORD IRONWORKS, DARTFORD, KENT

Established 1785

Leaders in refrigeration for over sixty years, makers of

### HALLMARK AUTOMATIC REFRIGERATING PLANT

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MOULDED W.C. SEATS

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DURABLE and HYGIENIC

- PERMANENT COLOUR & POLISH
- **NO BREAKAGES**
- IMPERVIOUS TO WATER & ACID
- ADJUSTABLE FITTINGS

Used in all Government Camps, Aerodromes and Factoria

# ROBERT MARD & CO. LTD. CROWN WORKS · DENTON · MANCHESTER

# Our new name

DURESCO PRODUCTS LTD

is

After seventy-one years of progressive trading we are rechristening ourselves. We have changed the name of our Company from "The Silicate Paint Co., J. B. Orr & Co. Ltd." to "Duresco Products Limited"; our factory address still being Charlton, London, S.E.7.

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The reason is simple. Duresco is by now a name wellknown to architects, builders and decorators all over this country — and far beyond it. It is so well-known that it was felt to be in everybody's interest that the old name of the Company (which is a cumbersome one) should now be changed.

We remind you that tint books, literature and pricelists are available on request to Duresco Products Ltd., Charlton, London, S.E.7. Telephone: Greenwich 0034, 5/6.



of Water Paints



CONTINUOUS SURFACING FOR WALLS AND CETLING Smooth, textured or moulded decoratio Protecting cover for steel work. Proof against vermi

THERMAL INSULATION K = 04 SOUND ABSORPTION B" = 04 FIRE PROTECTION B.R.S. Test Grade B 4 hrst. CONDENSATION ABSORPTION 6 times its own weight LIGHT WEIGHT: 12 lbs. per cu. ft. QUICK DRYING: normally 8 hours

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# The Machines...

# that make profit out of waste!

The "Emperor" Presses shown in this illustration are being used for the manufacture of Sand Lime Bricks. They also give excellent results in manufacturing bricks from waste materials such as shale, clinker, ashes, etc. "Emperor" Presses are made in various sizes capable of producing from 1,200 to 2,400 bricks per hour and of exerting a pressure of from 100 to 200 tons. We have been manufacturing Brickmaking and Briquetting plant for over 50 years and undertake the erection of complete brick works, including the constructional work. We're always ready to give the benefit of our experience to people who make bricks or are interested in doing so.

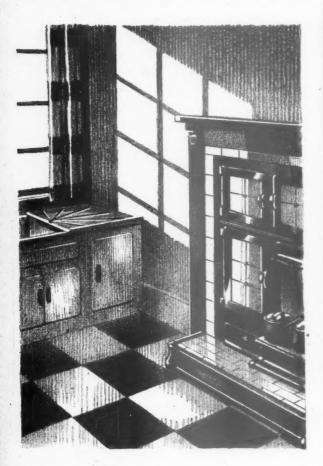
#### SUTCLIFFE SPEAKMAN

#### AND COMPANY LTD., LEIGH, LANCASHIRE

LONDON OFFICE: 82 KING WILLIAM STREET, E.C.4.

TELEPHONE: MANSION HOUSE 1285-6

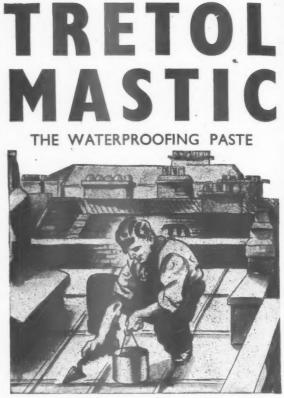
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# SERVICE par excellence

Not only do Steel and Gunton offer the benefits of extensive high-grade stocks and long experience—but they back them with real service in three phases. First they assist in the preparation of schedules with specifications, preliminary prices and the provision of samples. Then, they deliver on time and in the correct order—each piece being clearly marked for its position on the job. And afterwards they offer expert assistance on the site to advise on installation and operation, thus ensuring complete satisfaction. Certainly "service par excellence"! Your enquiries are invited. Write to Dept. 82.





An indispensable material for every builder. Keep in stock for all emergencies

for all types of roofs

GLAZING skylights, pavements and roof lights

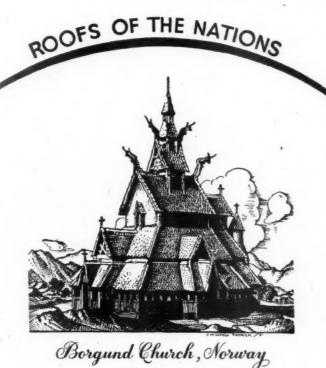
SEALING cracks and holes in brickwork, concrete, etc.

**JOINTING** brickwork, concrete, etc.



A bitumen plastic compound which remains flexible and elastic. Readily handled with a trowel . . .

TRETOL Ltd. 12 North End Rd., London, N.W.II. Tel. : Spe. 2866



As the tourist in Norway is driving through grand mountain scenery, there suddenly appears before him an extraordinary building—the famous Borgund Church. This place of early Christian worship has been standing in its wild desolate ravine for some eight or nine centuries, and with the exception of one other similar structure, is the oldest building in Norway. It is quite small, being only about forty feet long. The way in which some of the pinnacles are crowned with dragons' heads and some with crosses, contributes greatly to its weirdly picturesque appearance.

Many famous British buildings are protected by BRIGGS ROOFING — in all instances our trained specialists co-operated closely in the construction of the roof. And, they will co-operate just as closely in the re-roofing of bomb-scoured Britain — using to advantage their war-time experience and research in the reconstruction of the peace.

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WILLIAM BRIGGS & SONS LIMITED, DUNDEE. LONDON: VAUXHALL GROVE, S.W.8. ALSO AT GLASGOW, EDINBURGH, LIVERPOOL, BRISTOL, ABERDEEN, NORWICH

HE NATION'S ROOT



# Socket-Pipe Jointing

The perfect jointing material for Water, Gas, Drainage and Hot Water Pipes, also Cast Iron and Asbestos Cement, Soil and Waste Pipes, etc.

Unlimited supplies are available, and no other jointing material can claim all the following advantages :—

1. Maximum flexibility combined with a consistent density throughout the depth of the joint.

2. No heat or fire required, enabling work to be executed in inclement weather and under conditions not possible with other materials.

3. The "Philplug" joint shows an overall saving of at least

Write now for particulars to-(Co distributors) : BURN BROS. (LONDON) LTD.,

30% on labour and materials, and 85% of transport charges.

All that is required for making a "Philplug" joint is a little cold water, standard caulking tools and a hammer.

Only  $\frac{1}{2}$  lb. " Philplug " C.C.C. is required per inch diameter of pipe, therefore a 4 inch pipe requires only I lb. for a full depth joint.

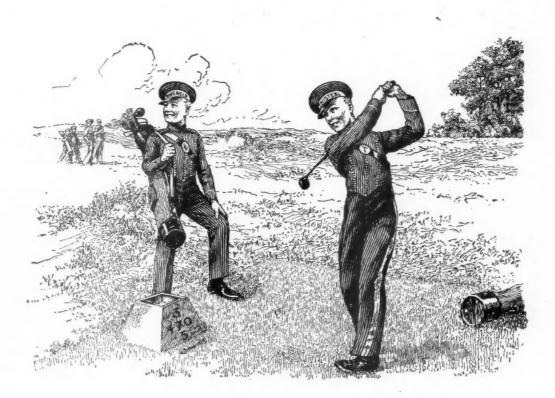
Tested and approved by leading pipe manufacturers, the Building Research Station, and specified by various Government Departments.

"Philplug " is packed in dry form in 1 lb., 7 lb. and 28 lb. tins and if stored dry will keep indefinitely.

WATerloo 5261



6, STAMFORD STREET, BLACKFRIARS, S.E.I.



#### A STRAIGHT DRIVE!

Whatever the post-war demands are on production in general it is obvious that "plus one" must be houses and the reconstruction of essential buildings.

..... and "Twisteel" and "Wireweld" are ready —ready for a straight drive to ensure maximum output with minimum delay. They are representative of an organisation which is adequately equipped to give you a service second to none in steel fabrics and designs for reinforced concrete structures of every description.

#### **TWISTEEL REINFORCEMENT LTD., ALMA ST., SMETHWICK, STAFFS**

#### And at London, Belfast, Warrington and Glasgow

		Telephone	N	los. :				
SMETHWICK	-			-	1991	(5	LINES)	
LONDON	-	-	-	SLOANE	9218	(3	LINES)	
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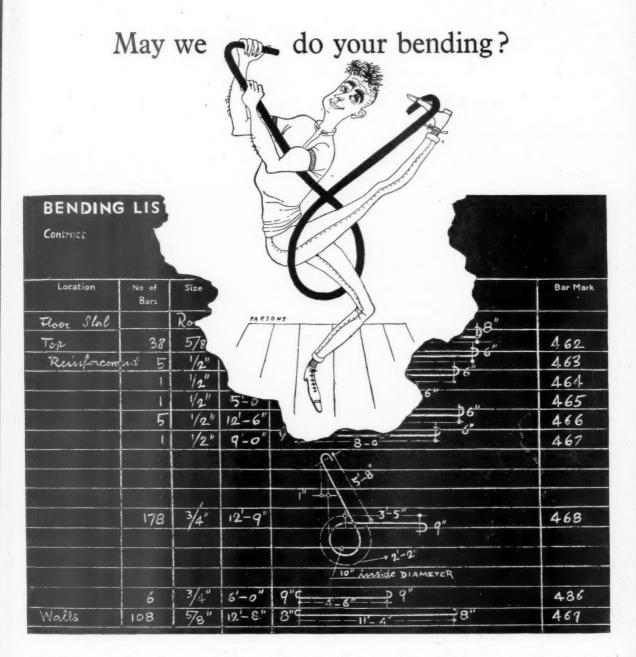
# 13 YEARS' HARD WEAR and still practically as good as when it was new!



This is an unretouched photograph taken in April, 1945, of part of the rubber floor installed in 1932 at Martins Bank, Liverpool. It is published to indicate how Dunlop Rubber Floors stand up to hard wear over a long period.



DUNLOP RUBBER COMPANY LIMITED, CAMBRIDGE STREET, MANCHESTER



Bending, of course, is only part of the service you'll want from your supplier of reinforcing material, but when we get a specification you can leave it to us to do all that's necessary and to see that you get deliveries on time, in the right order, and bundled and labelled for easy handling on the site.

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# SMITHS FIREPROOF FLOORS

MATURED STOCKS OF MATERIALS SPEEDY CONSTRUCTION

The SMITH TWO-WAY

reinforced fireproof floor can be employed immediately for any flooring or roofing requirement. It is constructed with standardised pre-cast hollow concrete blocks.

The employment of patent telescopic centers permits the immediate use of the floor with the additional advantage of their removal in the minimum of time.

SMITH'S FIREPROOF FLOORS LTD. (Dept. A) Imber'Court, East Molesey, Surrey. Telephone : Emberbrook 3300 (4 lines)





# GENERALCABLE

V.I.R., P.V.C. T.R.S., L.C., etc., etc.

"When the last shot is fired in the Japanese war as it has been in the European conflict, we shall be able to restore our full normal service for civilian customers."

"My thanks are due to them all for the patience and understanding they have shown to us during the time when our needs absorbed all our energies and nearly all our output."

"But they'll be rewarded for we've built up an organisation here at H.Q. in Surrey (and elsewhere throughout the country) that will produce not only first-class cables but a service second to none. Our technical staff are working hard on improvements and developments that will be of tremendous interest to everybody. Meantime if we can assist you with any present problem or laboratory test, we have the equipment and the men ready and waiting to help."







# Us good as it looks-

Even if you judge entirely by appearance you will be justified in selecting "Standard" Sanitary Appliances, because they are made from Ideal Vitreous China, the

finest material yet discovered for the manufacture of Lavatory Basins, Water Closets, Urinals, etc.

It is easy to glaze ordinary ware with good looks, but beneath is a porous body, and it will remain sanitary only as long as the glaze is intact. Once it crazes, as it will in time, moisture and filth will penetrate, fouling it. Ideal Vitreous China, however, has a body which is as hard and non-porous as the gleaming white glaze to which it is amalgamated, a glaze that can never craze - therefore all danger of impurities being absorbed and retained is eliminated and permanent hygiene assured. Specify "Standard" Sanitary Appliances, and be certain of lasting satisfaction.

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THIS LABEL GUARANTEES PERMANENT HYGIENE IN THE BATHROOM

DEAL

BOILERS

RADIATOR

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M. K. E

### KEX PRODUCTS

# KEXACRETE

A Stable Silica Solution derived from a Silicic Ester

Kexacrete is of prime importance where the protection of floors -concrete and composition—is the first consideration. It is a bardener and preventative of dusting and should be used whenever specific forms of attack obtain, such as lactic acid in dairies; oils and acids in garages; oils, fats etc. in food factories and in general wherever increased bardness and resistance is required.

**Kautex Plastics** 

Elstree, Herts.

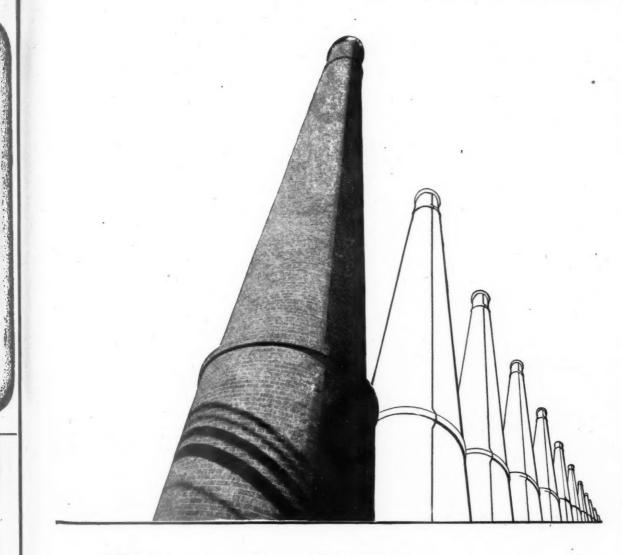
Enquiries are invited as to how Kexacrete can best serve your needs.

LTD.

This robust switch socket embodies sockets to B.S.S. 546. Anti-Flash or plain types. Shallow iron box with long spout. 2 and 5 amps. Single Pole. Page 104 of 1939/40 catalogue.

147.

Elstree 1777



# Chimney after chimney .... built with PHORPRES bricks..

For many years now the leading firms of industrial chimney specialists have preferred PHORPRES bricks, and one firm alone (Chimneys Limited) has built 259 industrial chimneys using PHORPRES bricks. This type of structure imposes more severe and fluctuating loads than any other. From footings to cap, a standard of performance must be maintained far in excess of that required in any ordinary building.



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Telephone: KEMPSTON 3131 Telephone: COLMORE 4141 Telephone: BRISTOL 46572

BIRMABRIGHT—the corrosion resisting, strong light alloy—is an ideal architectural material which is bound to be greatly admired in post-war offices, stores and public buildings

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BURMOEMAL

Hand-rail and balustrade constructed in "Birmabright" aluminium alloy by the Birmingham Guild Ltd. for Messra, John Bolding & Sons, Ltd. Architects: Messra. Braddell & Deane

BIRMABRIGHT

4

#### The answer to the Germans' "Impossible"

John Booth & Sons (Bolton) Ltd. was one of the parent firms entrusted with the construction of the floating bridges. There were 50 of them each 80ft. span. The unique design was tested by erecting one at Hulton Steelworks and twisting it 15 degrees in its length.



Messrs. John Booth & "Sons on the successful performance\_on time of their share of this remarkable engineering project.

JOHN BOOTH & SONS (BOLTON) LTD. HULTON STEELWORKS, BOLTON xxxiv] THE ARCHITECTS' JOURNAL for August 2, 1945



The use of copper and its alloys is now no longer restricted for any purpose in building

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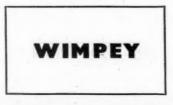
At Wimpeys' office on the site, the Building Agent puts into operation the predetermined constructional plan. Day by day he keeps a close watch to ensure that progress is up to schedule, from the preliminary excavation to roofing, lighting and the final details of decoration.

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THE ARCHITECTS' JOURNAL for August 2, 1945 [xxxvii

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Painting by Anna Zinkeisen

# This Present Age . . 6

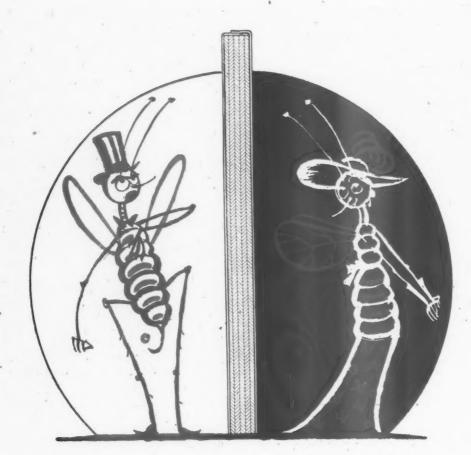
It is the supreme tragedy of war that the nation must lose the flower of its manhood with all its bright promise. Succeeding youth must be worthy of these sacrifices and, out of the chaos and confusion of war, resolve to seize the many rich opportunities which awaits it. To shoulder these great responsibilities requires a discipline of all the mental, moral and physical faculties. Since the outbreak of war the company has accepted the voluntary responsibility for the rehabilitation of Service men and women into their peacetime pursuits without loss of status. All who return will have acquired a new and disciplined outlook. Many will have discovered latent talents or acquired new skills. Such qualifications will be of inestimable value when directed to the best advantage, but of most account will be the ability of the individual to give. the highest quality of service in a spirit of free co-operation. Science and technology can bestow many bounties if youth is worthy of past traditions and future potentialities. Never in the history of the nation has so great a burden fallen on a rising generation, or so bright a prospect presented itself.

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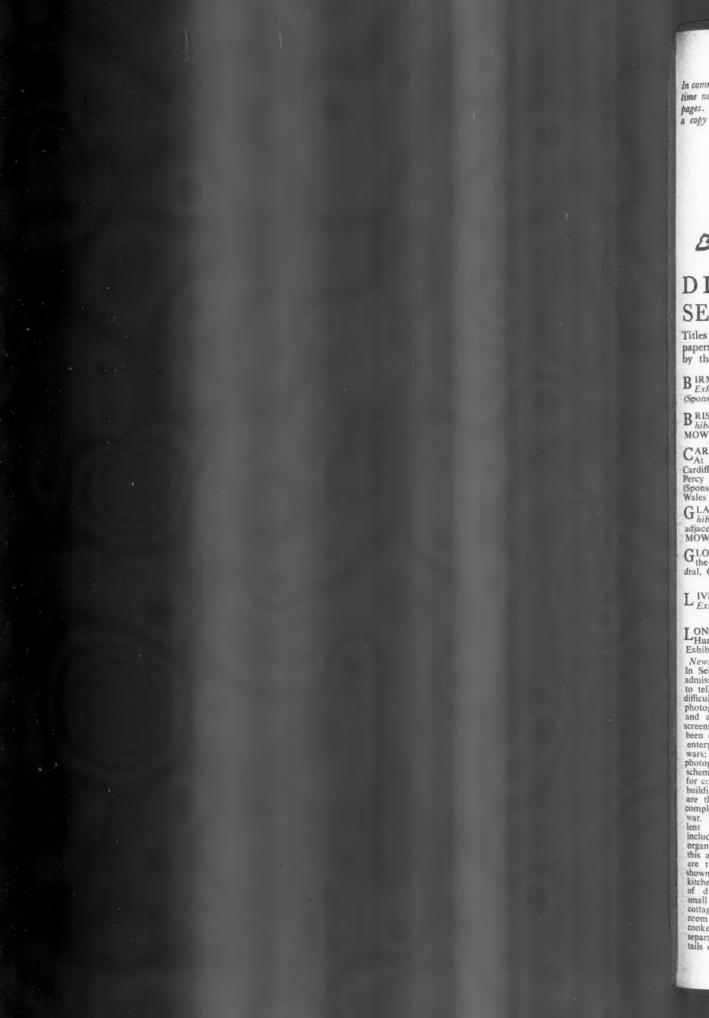
Thin-skinned but tough, a Flexometal partition keeps vermin in their place. Neither can damp penetrate, for the metal is sealed and forms a perfect enclosure and protection to the Flexoply panel, which has a valuable degree of stiffness.

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#### THE ARCHITECTS' JOURNAL for August 2, 1945 fxli

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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 pages. 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, £1 155. od. per annum. Single copies, gd.; 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.

#### AUGUST DIARY FOR AND OCTOBER **SEPTEMBER**

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

B IRMINGHAM. Modern Building Tools D Exhibition. At Big Top Site, New Street, (Sponsor, MOW.) Oct. 9-13

BRISTOL. Modern Building Tools Ex-hibition. At Black Boy's Hill (Sponsor, MOW.) Oct. 23-27 MOW.)

CARDIFF. Timber House Exhibition. At David Morgan Ltd., The Hayes, Cardiff. The exhibition will be opened by Percy Thomas, President of the RIBA. (Sponsor, TDA Bristol Channel and South Wales area) Aug. 13-25 Wales area.)

GLASGOW. Modern Building Tools Ex-hibition. At Glasgow Green, on site adjacent to People's Palace. (Sponsor, MOW.) AUG. 14-18

GLOUCESTER. Housing Exhibition. At the Chapter House of Gloucester Cathe-dral, Gloucester. (Sponsor, HC.) Aug. 3-10

L IVERPOOL. Modern Build Exhibition. (Sponsor, MOW.) Modern Building Tools SEPT. 11-15

LONDON. Royal Academy of Arts. One Hundred and Seventy-Seventh Summer Aug. 3-12 Exhibition.

News of the World Housing Exhibition. In Selfridges' basement, Oxford Street, W., admission free. The exhibition is designed difficulties and possibilities, with the aid of photographs, plans, full-size specimen rooms and actual equipment and The fittings. screens show photographically what has been done by local authorities and private enterprise, in the 20 years between the wars; while plans, models, sketches and photographe plans are also between the photographs give some idea of post-war schemes. Emphasis is given to the need for community development rather than the are the central feature of the exhibition, completely furnished and fitted on post-war, lines. The Ministry of Works has lent its Portal prefabricated unit, which includes a kitchen and bathroom. The organizers of the exhibition have added to this a living room and bedroom. There are two other sets of rooms. A flat is are two other sets of rooms. A shown consisting of bed-sitting shown consisting of bed-sitting room, kitchenette and bathroom—a bachelor type of dwelling—showing fittings built into small spaces. The ground floor of a rural cottage indicates the use of the utility room with such fittings as a solid fuel cooker and drying cabinet. There is a separate display giving constructional de-thile of modern wilding constructional deroom. tails of modern building methods (including

various systems of prefabrication), and another display of equipment and fittings. 10 a.m. to 5 p.m. Saturdays 10 a.m. to 12.30 p.m. (Sponsor, News of the World.) AUG. 3-11

Daily Herald Post-War Homes Exhibition. At Dorland Hall. (Sponsor, HC.) 10.30 AUG. 3-25 a.m.-6.30 p.m. Summer School on Health Education. By the Central Council for Health Education at Chelsea Polytechnic, London. Aug. 15-29 MANCHESTER. Manchester and Dis-Manchester, Manchester and Dis-trict Planning Exhibition. At the City Art Gallery, Mosley Street. The exhibition is the result of research by engineers, archi-tects, surveyors and other experts, working together under the direction of R. Nicholas, the City Surveyor and Engineer of Manchester, and Honogary Surveyor to the Manchester and District Regional Com-mittee Over two years agong stort was mittee. Over two years ago a start was miltee. 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. The partial completion of the air raid shelters programme released a number of technical assistants for planning, but the majority of the large amount of work has been carried out during the past 18 months. At the peak of the output the staff consisted of 29 technicians and 20 draughtsmen working at 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 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 require-ments and wishes of the public when official schemes are adopted. (Sponsor, Manchester City Council.) AUG. 3-SEPT. 8 Town Planning Institute Conference.

AUG. 31-SEPT. 1 ols Exhibition. Modern Building Tools (Sponsor, MOW.) SEPT. 25-29

NEWCASTLE. Modern Building Tools Exhibition. At Lovaine Place, Barras Bridge. (Sponsor, MOW.) AUG. 28-SEPT. 1

NOTTINGHAM. Country Life and Country Needs Exhibition. By the Notingham Rural Community Council. AUG. 3-25

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THURSDAY,		AUGUST 2, 1945	
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News 73 Plan for Middlesbrough 74 This Week's Leading Article 75 Astragal's Notes and Topics 76 Middlesbrough Survey and Plan 78-90 Announcements ... .. xlvi . . 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.

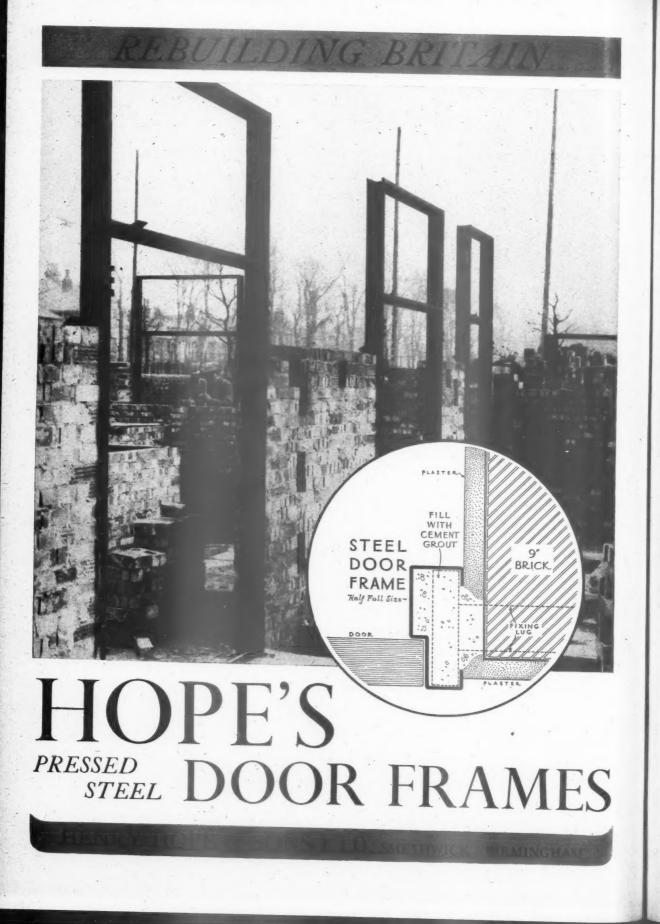
 $\star$  means spare a second for this, it will probably be worth it.

★★ means important news, for reasons which may or may not be obvious. Any feature marked with more than two stars is very big building news indeed.

The directors of Lewis's Limited, have given £35,000 to Manchester University towards the cost of a hall of residence to be known as WOOLTON HALL. W O'O'L'I'O'N HALL. The gift was announced at a luncheon in Manchester. Mr. S. H. Leake, the new chairman of the company, said it is the desire of the directors to place on record their pride in the installation as Chancellor of Manchester University of Lord Woolton, the former chairman of Lewis's group of companies and to give averagesion to their companies, and to give expression to their profound belief in the value of a university education to a business career. The direc-tors regard it as a duty that large public companies should maintain the tradition of private benefactions to universities. They have been advised that one of the most urgent needs of Manchester University is the extension of facilities for residents. Sir John Stopford, the Vice-Chancellor, acknow-ledging the gift, said that plans for the new hall will be ready in about a month. The hall will be built on a site adjoining the university athletic grounds at Fallowfield.

Almost every form of material reconstruction is being HELD UP BY THE GOVERNMENT'S FAILURE to make up its mind on roads. This opinion was expressed by Mr. Boyd Bowman, M.A., on behalf of the British Road Federation, to the West Ham Rotary Club. Continuing, he said: Housing, the distribution of industry and town and country planning all require that the road system should be planned first, and the work carried out as a matter of the highest priority. The Ministry of War Transport has said it has plans for roads; let us know what they are. Let us see how they compare with the plans put forward by the County Sur-veyors' Society, the Institution of Muni-cipal and County Engineers, the British Road Federation and other bodies. But above all, let us have bold and immediate action.

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#### AN ARCHITECT'S Commonplace Book From

DIFFERENCE BETWEEN THE ANGLO-SAXON AND THE LATIN. [From British Architects and Craftsmen, by Sacheverell Situell (Batsford).] But, in truth, we are surrounded in England even now by wonders, and there is not time in a single life to see them all. For they have, to the full, our national habit of reticence or self-effacement. Indeed, the English masters, as we would expect, are paragons of understatement. Not, of course, Vanbrugh, who was an exception to all our rules. But our national temperament could not be more aptly illustrated than by comparison with the little Rococo town of Noto, in Sicily, in its way among the minor wonders of the world, where the beauty of the architecture consists in the facades and in the balconies, these latter upheld by figures of turbaned Moors, Chinamen, Pierrots or drolls of Comedy, and winged Pegasuses, carved in the local golden stone, but the palaces have nothing whatever of interest inside them, and the whole energy and fortune have gone upon the outward show. Compare this with the exterior of Syon, or of No. 44 Berkeley Square, and you will understand the difference, in aesthetics, between the Anglo-Saxon and the Latin.

Proposals are under consideration for the fusion of all house building organisations into one body to ensure there is NO MORE FERRY BUILDING. Proposals for the fusion of all organizations of house-builders in one body, to be called the Federation of Registered House-Builders, were further considered at a meeting in London. When the merger is finally completed, inspection and certification-to ensure that there shall be no more jerry building-will be the basis of all good private house-building. Membership of the Federation will be restricted to those builders who are prepared to submit every house which they build to the independent inspection of the National House-Builders' Parieterities Council formed in 1966 to Registration Council formed in 1936 to arrange for the inspection of houses throughout construction and the issue of certificates of compliance with an approved specification. Among the bodies, repre-sented at the meeting were the House Builders' Association of Great Britain and the National Federation of Registered House-Builders, the latter body being the outcome of a merger in 1943 of two national organizations. Sir John MacTagnational organizations. Sir John MacTag-gart and Mr. Roy King, of the House Builders' Association of Great Britain, said jointly: A great progressive step has been The country cannot afford to wait for the provision of houses by local authorities. Private production before the war exceeded that of local authorities by over 200,000 houses a year. Private enterprise is uniting to-day to get greatest output in shortest time. Mr. H. E. Comben, President of the National Federation of Registered House-Builders, said: The industry is anxious to go into production. There is no need for the interminable wait that many people fear; neither need the returning soldier have to accept a sub-standard house. Sir Jonah Walker-Smith, Chairman of the National House-Builders' Registration Council, said that the acceptance by all house-builders of the Certificate Scheme will go far to raise the status of the industry to that of a public service of the highest order.

A million pound scheme for a NEW HOSPITAL AT WAT-FORD is proposed by St. Bart's. St. Bartholomew's Hospital, London-part of which has been evacuated during the war to buildings near St. Albans—is proposing build a new hospital at the cost of about to  $\pounds 1,000,000$  in the Watford area. The facili-ties to be provided will be available to Hertfordshire patients. At a meeting of the Hertfordshire County Council, the Chairman (Sir David Rutherford) said the hos-

pital will probably have about 600 beds, and include a medical school under highly experienced consultant physicians and surgeons. The hospital authorities are asking the County Council to advance the money for the building of the new hospital. If the Council take that course, adequate security will have to be provided. He asked the Council not to be alarmed at the figure in view of the large expenditure likely to be necessitated by the national health ser-vice in the provision of hospitals in the county. It was decided to appoint a committee to carry on negotiations with repre-sentatives of the hospital.

Now visiting this country is a HOUSING MISSION F R O M U . S . A. The Mission sponsored in the United States by the National Committee on Housing Inby the National Committee on Housing In-corporated is headed by Mrs. Samuel I. Rosenman, chairman of the committee. Other members are: Henry M. Propper, H. Adams Ashforth, and Webster B. Todd, all of New York City. The Mission will ex-change information on such questions as private enterprice building control of house rents and selling prices, subsidies, and plan-rents and selling prices, subsidies, and plan-ning. The centres they hope to visit in-clude Edinburgh, Glasgow, Birmingham, Liverpool, and Manchester.



Mr. Max Lock. A.R.I.B.A., A.M.T.P.I. Town Planning Consultant to the Middlesbrough Corporation, under whose direction the Middlesbrough Survey and Plan has been prepared. It is fully illustrated on pages 78 to 90 of this issue.

The Minister of Town and Country Planning has appointed a NATIONAL PARKS COM-MITTEE under the Chairmanship of Sir Arthur Hobhouse. Members of the Committee are: Lieut.-Col. Members of the Committee are: Lieut.-Col. E. N. Buxton, John Dower, Leonard K. Elmhirst, R. B. Graham, Dr. Julian Huxley, Mrs. Lindsey Huxley, and Clough Williams Ellis. In the foreword to the Report on National Parks in England and Wales by John Dower (Cmd. 6628), which the Minister presented to Parliament in May of this year it was said that further prelimithis year, it was said that further prelimi-nary work was necessary on the subject of National Parks. It is to undertake this work that this Committee has been work that this Committee has been appointed, with the following terms of referbeen ence: (a) To consider the proposals in the Report on National Parks in England and Wales (Cmd. 6628) of May, 1945, as to the areas which should be selected as National Parks; and to make recommendations in regard to the special requirements and appropriate boundaries of those areas which, in the view of the Committee, should be first selected; (b) to consider and report on the proposals made in that Report as to the measures necessary to secure the objects of National Parks, and on any additional measures which, in the view of the Committee, are necessary to secure those objects; and (c) to consider and make recommendations on such other matters affecting the establishment of National Parks and the Conservation of Wild Life as may be referred by the Minister to the Committee. The Conservation of Wild Life and proposals for the establishment of Nature Reserves were dealt with in the National Parks Report. The Minister has asked the Chairman to arrange for the examination of these proposals by a small body of experts.

Mr. A. E. Sylvester, F.C.A., Governor of the Gas Light and Coke Company, has been unanimously elected CHAIRMAN OF THE BRITISH GAS COUNCIL. The British Gas Council, the new govern-ing body set up by the Gas Industry in January last, represents municipal and January last, represents municipal and company-owned undertakings responsible company-owned undertakings responsion-for over 98 per cent. of the gas produced in the British Isles. It unites in one body the functions carried on by the National Gas Council and the British Commercial Gas Association, and thus enables the Gas Industry to speak with one voice in all matters of national and public importance.



# Plan for Middlesbrough

The most spectacular exhibit in the County Borough of Middlesbrough's Survey and Plan exhibition opened by the Marquess of Zetland in the Middlesbrough Town Hall on July 16 was one of the finest models of a town so far made to illustrate modern principles of town plan-

ning. Part of it is shown at top with an airview below of the same part of the town as it exists to-day. The guide to the respective parts of this area in each illustration is the Gothic-revival town hall in the centre with its pinnacled clock tower; there is a key plan on page 90.

\* \* The st Town town appoint month CIT RECO was di of the presid The M Commo and To does no remot gest that either a magnifi the ma their ta should In a d that th and the advanta axial v specific high s design. vidual much 1 had the ing effi to the ment h had be square or to r prehen The I Comm Court letter c than paragin of wor ingly express after a sary to and th made author sultant Tidbur mittee, comme Recons receive to det opport cussion Minist bodies. weeks criticis Count of Wa to the Beer agree Minist arrive been g draft was no whole wrong Minist withha he ha standa year to on a f during the M seeme recom

 $\star \star \star$ The suggestion of the Minister of Town and Country Planning that town planning experts should be appointed within the next six months TO PREPARE A NEW CITY OF LONDON RECONSTRUCTION PLAN was discussed at a special meeting of the Common Council under the presidency of the Lord Mayor The Minister, in a letter presented to the Common Council by the Improvements and Town Planning Committee, says he does not desire the plan to be something "remote from execution," nor does he sug-ent that the resourcement where the gest that the reconstructed City should be gest that the reconstructed City should be either a museum piece or dominated by magnificent vistas. He is convinced that the makers of the plan should approach their task by asking "what sort of place should the centre of a world capital be?" In a detailed criticism, it is pointed out that the two great monuments—St. Paul's and the Towar- are not shown to receive and the Tower-are not shown to greater advantage in spite of the opening out of axial views of the Cathedral transepts. No specific reference is made to the value of a high standard of architecture and civic design. The treatment proposed for indi-vidual buildings of historic interest left much to be desired. Half a million people had their daily work in the City. Work-ing efficiency and trade efficiency were keys to the situation. That fundamental ing efficiency and trade efficiency were keys to the situation. That fundamental require-ment had not been grasped. No attempt had been made to bring under review the square mile of the City as a related whole or to make long-term provision for a com-prehensive framework of redevelopment. The Improvements and Town Planning Committee presenting the latter to the Committee presenting the letter to the Court stated:—" The views expressed in this letter cannot, we think, be regarded as other than extremely disconcerting and dis-paraging of our efforts and the amount of work which has been entailed." Accordingly they recommended the Court "to express regret that H.M.'s Minister should, after a period of 12 months, find it neces sary to suggest that it should be abandoned and that an entirely new attempt should be made to replan the City. They ask for authority to appoint a consultant or con-sultants to advise; and to seek an early conference with the Minister." Mr. F. Tidbury Beer, the chairman of the Com-mittee in moving the adviser of the Committee, in moving the adoption of the re-commendations, said that the report of the Reconstruction of the City of London was received in July, 1944, when it was decided to defer expression of final views until opportunity had been given for public dis-cussion. Copies were sent to the various Ministers and public and professional bodies, and observations invited. weeks ago the Committee received the criticisms of the Ministry of Town and Country Planning, and those of the Ministry of War Transport were awaited. Turning to the letter from the Minister, Mr. Tidbury Beer said that members would probably agree that it was regrettable that the Minister should have taken 12 months to arrive at a conclusion which might have been given after a few days' study of the draft proposals. The vital criticism made was not concerned with detail, but that the whole basis of conception of the plan was wrong. Bearing in mind that it was the Minister's duty to consider every aspect, the withholding of any expression of view until he had all possible criticism was under-standable: but that he should wait a full year to say that the proposals were founded on a false conception of basic requirements. during which time officers of Guildhall and the Ministry had been in frequent contact, seemed to call for further explanation. The recommendations were carried.

#### PEOPLE'S PLAN A

TIDDLESBROUGH possesses. outstanding natural advantages. It is the centrally placed key town of industrial Tees-side with 138,000 of Tees-side's 350,000 inhabitants. It lies on the South bank of the Tees, set against the charming background of the Cleveland Hills. Its giant steelworks are naturally zoned in a broad belt between river and railway so that smoke usually blows away from the town. But the mammoth scale of Tees-side industry is unable to dwarf the grandeur of the nearby Cleveland Hills. The natural concentration of ironstone, coal, anhydrite and salt has made the area a centre of the nation's steel and chemical production. The port and river are capable of great development. It is the right-sized town for the region it has to serve, which contains first-class agricultural land, magnificent moors and a coast with the highest range of cliffs in England. Middlesbrough has grown up industrially at the expense of its social and cultural life and its chief planning problem lies in its violent contrasts, especially in the difference in standard that exists between the central core and the pleasant outer suburbs. In old Middlesbrough, a third of the people is found to be without bathrooms or gardens. There is an 88% deficiency of open space in neighbourhoods where from 300-450 tons of soot fall annually per square mile, and houses are built at more than 50 to the acre. In such an environment it is found that a child has a 1 in 351 chance of Higher Education, whereas in a corporation housing estate, his chances are 1 in 38, although his father has the same job as before he moved. Mortality and disease show similar contrasts.

Yet Middlesbrough is typical of most of the northern industrial towns. To bring modern living standards into these is England's chief social responsibility. In doing this we must not forget that 19th-century conditions are not inevitably cured by 20th-century industrial development-which, as is shown on Tees-side, has power to pollute over a far wider area and can lower standards to an even greater extent than the smallerscale enterprise of our grandparents. To-day, the social objectives of municipal planning and the economic objectives of industrial planning must be worked out together or they may defeat each other. We find that the removal of blight and its causes can only be undertaken by continuous cooperative teamwork on the spot. In Middlesbrough-geographic, economic, social and physical statistics have been collected by the team of planners and scientific evidence has been produced for all major planning conclusions.

The bias of mere opinion, the capriciousness of design, is here tempered by ascertained fact. The municipal departments of Middlesbrough have proved to be arsenals of fact. Experienced opinion of officials and leaders of industry, labour, trade, education, religion and culture can only be ignored by the planners at the cost of their plan. They must consult the people whose lives they would rearrange in the same way 76] THE ARCHITECTS' JOURNAL for August 2, 1945

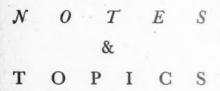
that the Architect must win the co-operation of his client and the doctor of his patient.

For this reason the Survey has been perhaps the most creative part of the Plan in its systematic appraisal of people's needs and habits by the simple method of organised personal contacts. Over 3,000 citizens have been consulted by the planners. The simple objectives of the Middlesbrough Plan have been to bring greater equality of standard of amenity and opportunity to the people of the town, giving more light, air and space in the central areas, while at the same time preventing sprawl on the periphery. The regular gridiron is maintained but simplified and rearticulated for efficient transport. Drastic shifts of shopping and business centres have been avoided, the Planners having aimed at using prospering buildings as magnets to attract similar further good development, at the same time freeing them of conflicting land uses which congest their sites. Middlesbrough's Plan is cast for a five, fifteen and thirty year period. The actual building volume should not be much more than that of the last thirty years-but now it can be carried out within the flexible framework of a Masterplan based upon the evidence of a thorough Survey. Now the Survey must be made a continuous process and brought to bear upon the gradual implementation of the Plan at all its stages.



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

Telephone : Vigilant 0087-9



#### THE CITY PLAN

It took Mr. Morrison a long time to decide that the City Plan was a bad one, but he crooned a noble swan song in exercising his powers as Minister of Town and Country Planning by turning down at last that hopelessly inadequate and unimaginative effort.

What a commotion his moderately worded letter evoked in the Common Council—"an insult unparalleled in the history of this City or any other" —"the plan prepared by our engineer was, in many respects, magnificent." But the most lame remark was that the turning down of the plan would be "an unprecedented waste of time, labour and expense."

It is a relief to know that another attempt may be made. But whoever is chosen to do the job must not forget that citizens have to *look* at their surroundings. He should consider the subtle Sharawaggi approach as expounded in the Architectural Review issue of June.

Those rare visual gems thrown up fortuitously by "a process of growth forced upon it by the amazing vitality of the life it harbours," which give the urban jungle of the City its unique character, must be consciously developed to provide many more moments of "polyphonic beauty" in the inevitable conglomeration.

#### TOWN, PLAN AND PEOPLE

Middlesbrough, the main subject of this week's issue, has several unique characteristics as well as many that are typical among northern towns. As far as I know, for England, its grid-iron plan is unique, not in so far as it is exhibited in the all too common byelaw development, but that it runs right through the town centre and even reaches some of the middle-class, inner suburbs. It gives the town a strange atmosphere, slightly American smalltown, although probably only to those who have never been to America. The straight, wide streets lined with low, uneven buildings, running for a mile or so and ending up with a superb red gasometer, or a not so superb, but equally effective, 1890 red brick church, are well worth knowing. So are the shorter ones running down to the docks, giving glimpses of fantastic cranes and sometimes of the startling Tees Suspension Bridge.

A sight Astragal will not forget was waking up to a clear blue sky and watching columns of black smoke rising one by one from the great chimneys on the industrial north side, gradually merging and drifting over the town until a grey haze took the edge off the morning. The plan shows that the prevailing winds blow out to sea, so this is probably an unusual sight and not one worth, for its own sake, going all that way to see.

The exhibition of the plan is a lively affair and has drawn many interested and critical townspeople. Apart from the exhibition, formidable enough in itself, the planning team, under the direction of Max Lock, has produced ten long reports on different aspects of Middlesbrough and its life, which include proposals for the redevelopment of the town, as well as over one hundred and fifty plans. The whole work does credit not only to the team and to those outside organizations which have helped in the research work, but also to the former mayor, Sir William Crosthwaite, and his council, who were the initiators, and to the present architectmayor, Mr. R. Ridley Kitching, and his council who have seen the work through.

Local comment has on the whole been extremely favourable. There was one lady whose sole comment on leaving the exhibition was "Why! There's nowt but maps." But in contrast there was also a small boy who, straining his chin up to a level with the model the b "Wha ment.' at lea height the n town

Judg studen there the A tory J see h filled tion i tural

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AI thoug stage which the g tice series opera vide ence mally build ment perie Joine Servi trade

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model of the new town centre, paid it the biggest compliment he knew: "What's ter use, t'out a labour guverment." It is encouraging to know that at least one member of the lower height group will be watching closely the new government's first steps in town planning legislation.

#### AA STUDENTS' EXHIBITION

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Judging from the exhibition of students' work at Bedford Square, there seems to be an alarming gap in the AA School course—design for factory production. But it is difficult to see how such a gap can be properly filled without a pretty radical alteration in the whole system of architectural education.

A new departure for the schoolthough it is still in an experimental stage-is the practical training scheme which has been developed to bridge the gap between the theory and practice of building construction. "A series of demonstrations and building operations has been planned to provide a working knowledge and experience of the materials and methods normally encountered in present-day building practice. Under this arrangement each student will gain useful experience of Brickwork, Carpentry, Joinery, Roofing, Flooring, Plumbing, Servicing and sundry other building trades and operations."

Such a scheme has long been needed, but again the stress seems to be too much on wet building and the practice of traditional trades on the site. Since these are tending to give place to dry building and machine production under cover, in the future, surely, to quote Gropius, "the field of handicrafts will be found to lie mainly in the preparatory stages of evolving experimental new type-forms for massproduction," rather than in the damp and ponderous trowelling of a mediæval wall.

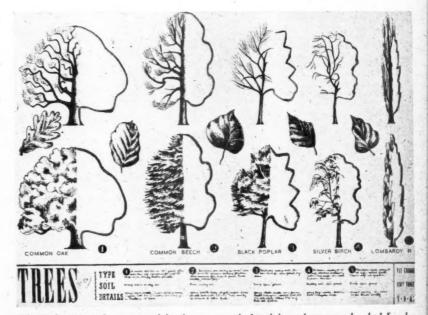
But enough carping. The year's work at the AA is of a high standard—remarkably high considering the difficult and unsettled times. A particularly valuable innovation at the AA is the emphasis on landscaping and site planning through the whole course, in which the study of trees forms an important part during the first year.

#### WITHOUT COMMENT

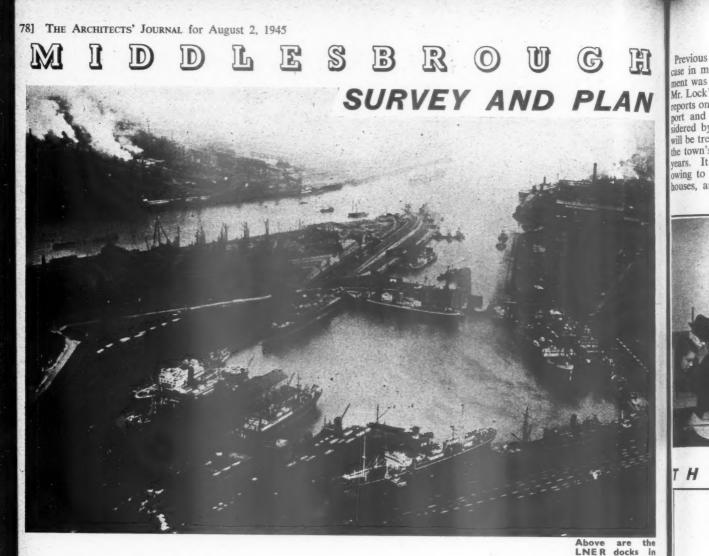
"County Borough of Eastbourne. Appointment of Architectural Assistant. Applications are invited for the post of Architectural Assistant, at a salary of £275 per annum, rising to £325 by two annual increments of £15 and one of £20, plus war bonus amounting at present to £60. Applicants should possess Architectural qualifications, and should have had experience in the design and construction of Schools, Public Buildings and Housing Estates..."

"Borough of Stretford. Appointment of Mayor's Attendant. Applications are invited from candidates possessing the necessary qualifications and experience for the appointment of Mayor's Attendant and Mace Bearer, at a salary of £300 per annum, rising (subject to satisfactory service) by three annual increments of £15 to £345 per annum, plus a cost-of-living bonus (at present amounting to approximately £60 per annum). Candidates with secretarial experience will be given preference.

ASTRAGAL.



Top Left, AA students engaged in the new practical training scheme on a bombed London site (Photo : H. P. Crallan). Below, a first-year drawing by Pat Crooke at the AA exhibition of students' work for the analytical study of common English trees, part of the year's work discussed by Astragal this week.





a message from the mayor

I am certain the Council of the County Borough of Middlesbrough were wise in their decision, made when Sir William Crosthwaite was Mayor about two years ago, to have a diagnosis of the town conditions and a plan prepared for its ordered reconstruction and development.

We are not much over a hundred years old, and the first plan for the layout of the town had quite good points, worthy almost of present-day town planning, but unfortunately, with the extremely rapid growth of the town owing to the rise of the iron and steel industry, almost all thoughts of planning disappeared in the rush of providing houses for the steadily increasing number of workers.

pages.

Middlesbrough's industrial 'north side' The plan for the town which has been prepared under the direction of Mr. Max Lock is illustrated and described on the following

Fortunately the position of the river and railway indicated sites for the works which grew rapidly, and these are all on the north side of the town. From the railway, housing spreads southwards, but up to 1914 or so the houses were closely packed, and today we have far too many of substandard condition.

I am equally certain we did well to appoint Mr. Max Lock as the Town Planning Consultant, and he, with a very competent staff, many of whom are women, has produced a detailed diagnosis of all social conditions in the town, and on his plan has indicated an ordered scheme which will guide future Councils in their work of development.

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Previous to this planning, as is the case in most towns, building development was of a very haphazard nature. Mr. Lock's plans and his ten sectional reports on Housing, Education, Transport and the like will now be considered by the Council and no doubt will be tremendously helpful in guiding the town's growth during the next 30 years. It must inevitably be tackled owing to the number of sub-standard bouses, and the need for schemes to

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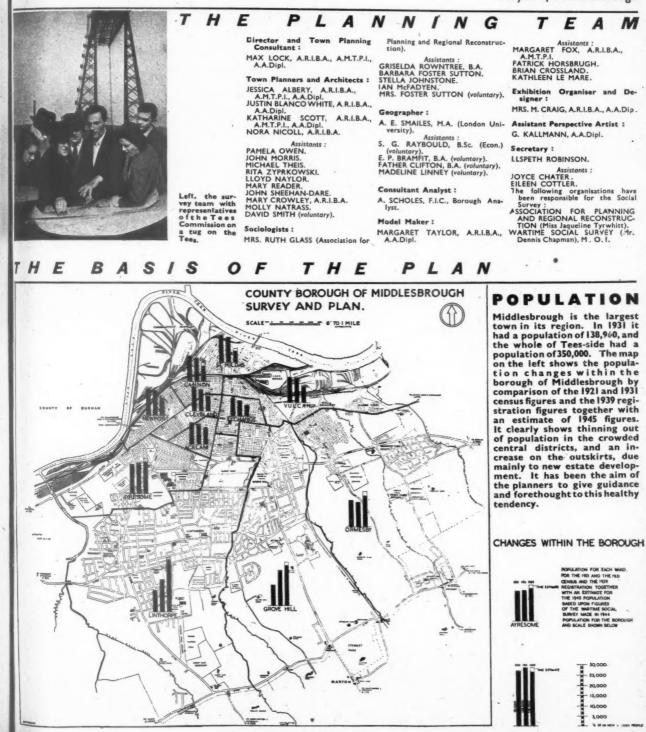
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meet the new Education Act and other Government directions.

There is a very lively outlook in industry on the part of the two largest firms, Messrs. Dorman Long & Co., Ltd., and the I.C.I. (Billingham Division), Ltd. The River Authority, the Tees Conservancy Commission, are also considering developments which will bring the river back to its pre-war position as one of the most important ports in the country. Tees-side generally, with its six towns on the north and south of the river, is looking forward to the future with great heart and a determination that the Tees-side area, comprising a portion of South Durham and the Cleveland district of North Yorkshire, will go ahead as one entity in enlightened, progressive, development and prosperity.

R. R. Kitching, J.P., F.R.I.B.A., Mayor of Middlesbrough



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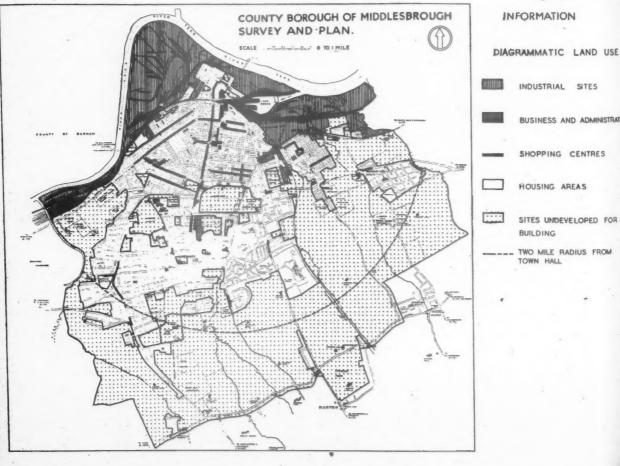


In this special issue of the Journal on The County Borough of Middlesbrough's Survey and Plan, the story of the town and its plan is told separately, in the form of a strip cartoon with photographs, running along the top of each page. Below this, for convenience in presentation, the survey and plan has been divided into various sections; in each section a representative survey map and planning proposals map is shown. Below each main title a list of maps is given, those illustrated in the Journal being marked by a star.

## LAND USE SURVEY

**Major** Physical Features Major physical features Relief Physical background in Watercourses detail Rock types Transects through underlying strata Mineral resources (chiefly ironstone mines)

Areas of Development in Region Areas of development in region Housing and industry before 1860 Housing, Industry and 'Agriculture (present day) Areas of settlement housing only, present day \*Population changes in the region (p. 79)



Below is a diagrammatic map of existing land uses. Middiesbrough is a town of 138,000 inhabitants occupying a little over 7,000 acres, well suited in size to the region it has to serve. Industry and housing are clearly separated. But among other things there is a discrepancy in open space between central and outer housing areas.

INDUSTRIAL

SITES

BUSINESS AND ADMINISTRATION

SHOPPING CENTRES

SITES UNDEVELOPED FOR

TWO MILE RADIUS FROM TOWN HALL

HOUSING AREAS

BUILDING

Town P Regional side Joir Middlest Planning Sphere ( Land L

Diagram Diagram Bomb d

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smoke-pollution, and in addition, are almost completely starved of open space (2). The planners' first step was to gauge the extent of the problem, and this is roughly what they found. The post-1914 housing development prospers or suffers in inverse proportion to the pre-1914. Although it is further from the work-places, smoke pollution is negligible; it has more open space than that demanded by accepted standards, but social life, which is as vigorous as the conditions permit in the central area, is almost non-existent in the outer areas. The planners propoals are shown in simplified form in the map below, and it would be as well to turn back

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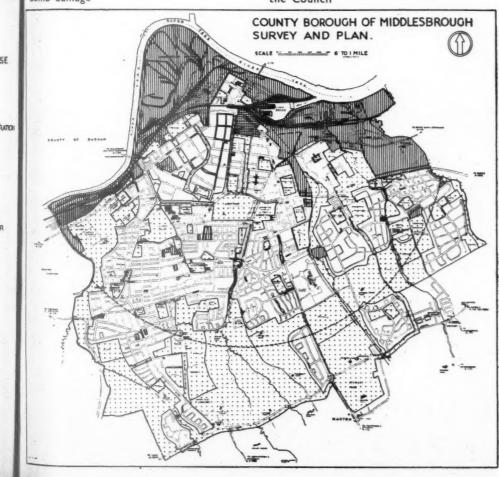
## LAND USE PROPOSALS

Town Planning Background Regional plan—North and South Teesside Joint Committees Middlesbrough—South Tees-side Joint Planning Committee (2 maps) Sphere of Influence of Middlesbrough

Land Use \*Diagrammatic—Existing \*Diagrammatic — Proposed Bomb damage and disused or empty property Land owned by Council

Boundaries Boundaries in region ,, in Middlesbrough

Implementation Land values Transparency of land owned by Council Proposals for land to be bought by the Council



Below is a diagrammatic map of land use proposals. The inner areas are developed at less density ; the shopping centre is regrouped ; new estates are developed on the outskirts, and wedges of open space are brought through and between these estates right to the town centre. There is a buffer of green space between central housing areas and industry.

INFORMATION

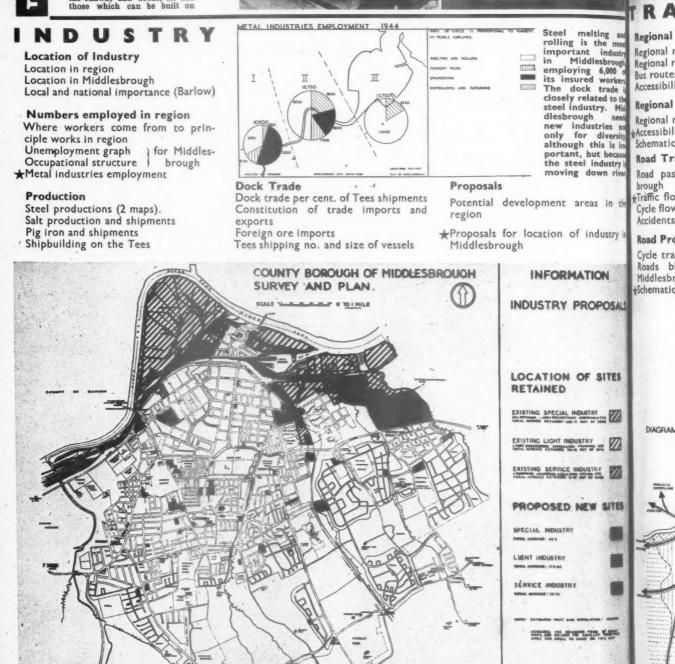


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to this map after studying the different parts of the town which are surveyed and planned on the are surveyed and planned of the following pages. The story of Middlesbrough starts with its industry. It was founded in about 1830 on the, almost aggressive, faith in its possibilities of Joseph Pease; it started by exporting coal but its possibilities and was scally due Pease; it started by exporting coal but its rapid growth was really due to the discovery of iron ore in the Cleveland hills. This has made it much too much of a single industry town, The plan-ners suggest that existing, heavy industry(4) needs modernising on its existing site ; that more light industries should be encouraged, both those needing sites close to the railway and docks, (5) and those which can be built on





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Road pas brough Traffic flo Cycle flow

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Middlesbr Schematic " green sites," such as food fac- 6, 7 tories : and that there should be more " service industries " such as laundries, bakeries and workshops carefully sited to serve the needs of the town.

needs of the town. The connecting link in the plan is transport. Looking at Middles-brough set in its region (6) it can be seen that it is on the route to the expanding in-dustries on the east and to the beautiful country round the Cleveland hills in the south-east. Cleveland hills in the south-east. But Tees-side needs an arterial link with the Great North road and with the rail junction of Darlington; these are provided in the planning proposals. The suggestions for Middlesbrough itself are clearly shown in the

# **TRANSPORT**

**Regional Road Traffic** Regional road traffic flow

Regional road proposals Bus routes and frequencies Accessibility in region by bus

**Regional Rail Routes** 

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Regional rail routes and frequencies Accessibility by rail Schematic rail diagram

#### Road Traffic in Middlesbrough

Road passenger services in Middlesbrough

\*Traffic flow in Middlesbrough Cycle flow in Middlesbrough Accidents in Middlesbrough

#### Road Proposals in Middlesbrough

Cycle track proposals Roads blocked and new roads in Middlesbrough \*Schematic road diagram

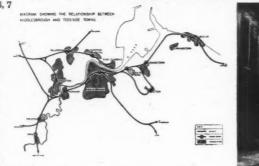
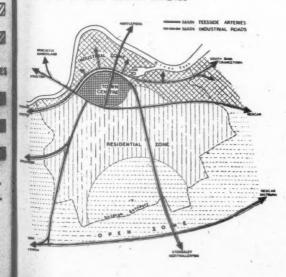






DIAGRAM OF MAIN TRAFFIC ARTERIES



The heavy industries still use mainly water and rail. But the Middlesbrough dock needs both road and rail connections to serve norm road and rail connections to serve more diverse industries. North and south Tees-side are linked on the west by the Tees bridge ; however, a new tunnel would open up the north-eastern bank of the estuary, and improve access to the Hartlepools. The map above shows traffic flow in Middles-brough itself. The diagram on the left I he map above shows traffic flow in Middles-brough itself. The diagram on the left shows the road transport proposals. A cross-town arterial parkway is suggested linking the Tees-bridge, the Stockton road and the Trunk road. A by-pass is also sug-gested south of the Borough Boundary. The road connection along Tees-side has a weak link in Middlesbrough. Also cross town con-pertions are protected to the southern emitting nections are poor; the southern exit is tortuous. Through traffic, industrial traffic and town traffic are dangerously mixed. It is proposed to segregate traffic into four types, I. Through traffic which will use the new east-west arterial parkway and the two main radials, 2. Industrial traffic which will run on a separate road south of the railway, with an improved bridge to the north side, 3. Main town traffic to shops and offices, which will use subsidiary radial roads and cross links, and 4. Local traffic which will run on by-roads discouraging through-traffic.



built, 22,000 cleared. By 1975 the plan provides for 2,000 more dwellings to be cleared than to be built. It is important that the new houses should be varied to suit different families. In Middlesbrough there are 8% of single people households, 28% of three people households, 18% of three people households, 18% of five people households, 12% of five people households, 12% of five people households, 12% of five should households. 12% of six or more people households. New estates should consist of all kinds of people, with dwellings planned accordingly. What is also important is that the new estates should house in redevelopment, the real neighbourli. ness that they possess at present. The planner cannot create this, it is only the people who can do that, but the planner can help to create the physical conditions in which it can take on a new lease of life. To give only one small example he can give those who like to stroll about on a warm summer evening better surroundings than those in (10). But more than this the planners propose a full quota of clubs, cinemas, libraries and community buildings within a quarter of a mile of peoples homes --hat means for; every neighbourhood group (about 10,000 neonle).

The plan for a new estate at Thorntree is shown at the foot

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## **NEIGHBOURHOODS**

#### Neighbourhood Maps

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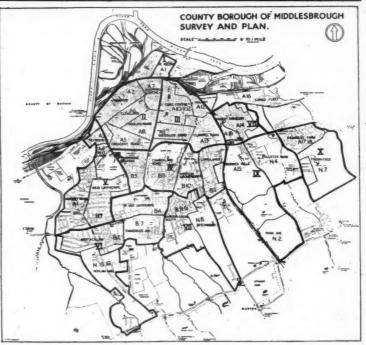
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Definition of neighbourhoods IA Adjusted to census enumeration districts IB Neighbourhood indices (5 maps) Ward boundaries Census enumeration districts

#### Detailed Proposals, New Neighbourhoods

I St. Hilda's—a central neighbourhood 2 North Ormesby—an inner suburban neighbourhood 3 Thorntree—an outer suburban neighbourhood I, 2 and 4 being reconstructed after clearance and \$3 being developed new \$4 Town centre, including I, 2 and 3 (on p. 90)



Above is a map showing the ten neighbourhood groups in Middlesbrough. The survey work in this section was done by the Association for Planning and the Wartime Social Survey. The method for discovering neighbourhoods was first to plot the most flourishing clubs and institutions and then to discover their catchment area by marking on maps the homes of their members. By plotting similar clubs on one map, groups of people were found sharing a simi-

lar outlook. By plotting all the clubs in the town, the areas where social activity is greatest was found. Many other questions relating to such subjects as household habits, shopping and the journey to work, were asked and answered by these survey methods. The map on the left and the model below show the proposed new Show the proposed new Thorntree estate, which would come in the fifteen year period of the programme. It is designed for 6,200 persons in 1,550 houses.





of the preceding page alongside a model of the same scheme. The key to Middlesbrough's growth is in the policy for the Southern edge, adjoining the fine country. It is important to see that new building here should not just spring up between the existing suburbs, driving the country away from the town and spoiling the best farmland, as it has done in many towns. New estates must be planned with green spaces separating them from the existing estates, and farmland must be allowed to come right up and into the towns of tomorrow. In the countral area of Middlesbrough, the houses are much too near to the industries, and the

planners suggest clearing the 11 nearest ones to provide a buffer of green space between housing and industry (see the airview drawing at the foot of the page). But even this will not redress the deficiency of open space in the central area, for although it contains 71,150 people, or 52% of the people in the town, it has today only 8% of the open space. In fact, the north-west of the town has an 88% deficiency in school and adult playing fields, public gardens and playgrounds (11). Whereas the southern fringe of the town contains only 12% of the people, but has 52% of the open space, twice the standard nationally recommended for suburbs. The plan-



COUNTY BOROUGH OF MIDDLESBROUGH

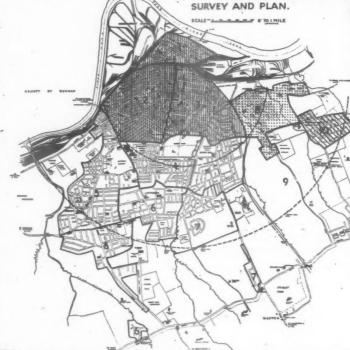
## **OPEN** SPACE

#### Existing

★ Deficiencies Regional amenities Undeveloped sites Allotments with catchment areas Sportsfields

#### Proposed

Proposed standards Existing standards Proposals for location of open spaces of all kinds Parks (location) Sportsfields (location) Allotments (location) Playgrounds (location)



Below is an air perspective showing one of the open-space proposals for Middlesbrough; it is a green buffer separating industry and the docks on the north from the town centre and housing on the south.



the town has an 88 per cent. deficiency. For planning proposals, see p. 81. 4 mil 1

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ners suggest that a more equal share-out is possible if only 25 % instead of 52 % of the people live in the central areas, thus giving them 14 % of the open space instead of 8 %. They sug-gest that this new open space should then be linked up with the fingers of open space which will be planned in and between the new housing estates, so joining them to the open coun-try.

try. Closely linked to the problem of open space is that of health ser-vices. First of all the general hospital in Middlesbrough needs to be rebuilt, Then it is proposed that Hemlington Hospital should be dereined as the centre of a be developed as the centre of a regional group where patients

can benefit from pure air and 12, fresh food straight from the farms. The plan also provides a general health centre for the town and 10 local health centres, one for each neighbourhood. There will also be a new mater-nity hospital with 200 beds in place of the present 58. Smoke pollution is one serious cause of ill-health, and Middlesbrough suffers to no small extent from this (12). In those parts of the town built before 1914—smoke pollution is three times as bad as in the newer parts. In each year 250-450 tons of dust, soot and dirt are deposited on square mile of this central area. The planned redevelopment of Mid-dlesbrough will go a long way



COUNTY BOROUGH OF MIDDLESBROUGH

# HEALTH

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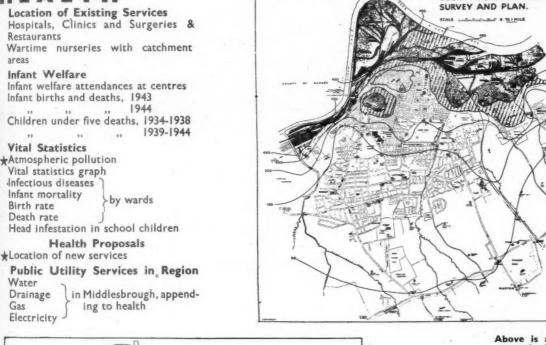
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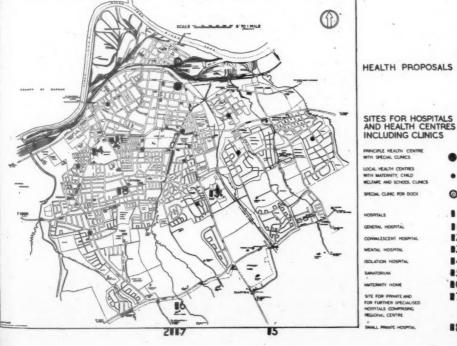
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Above is a map showing atmospheric pollution. The shaded portions of the map are those areas over which more than 450 tons of soot and dirt descend each year, the cross-hatched portions are those areas over which 350-450 tons descend. Figures for the other areas are given at each end of the lines marking them. The map on the left shows health proposals for the town.

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towards surmounting this prob-lem altogether. About 22 % of elementary school children in Middles-brough attend schools built before 1880 - a typical one is St. Hilda's (18). These schools are dark and often poorly ven-tilated; without proper hall or playfields. The children from the central areas, St Hilda's, Can-non and Newport have only one chance in 351 of entering higher education. But, children from the new housing estates have one chance in 38, although their fathers have the same wages towards surmounting this probfathers have the same wages and occupations as before they moved from the central areas. The planners propose that 10

ust 2, 1743 unfit schools should be pulled down, 4 sub-standard schools should be reconstructed and all the remaining schools should have enlarged sites according to the 1944 Education Act. Before the war, schools lagged 5 to 6 years behind the building of houses. The new corporation and private estates should in-clude schools from the beginning. It is proposed that housing states for 28,000 people be built in the next 15 years, in-cluding 7 new primary schools. There must also be 17 new local authority and Roman Catholic secondary schools, which should include 3 new grammar schools, 6 new tech-

nical schools, and 8 new modern 13 schools. Grants under the 1944

Act will meet over half the cost of these requirements. Some shopping centres in Mid-dlesbrough are poor and others are prosperous. Some subare prosperous. Some sub-centres are very prosperous and have wide "catchment areas," but others, perhaps too near the chief centre, are blighted. Gene-rally, there are too few shops in the suburbs. Middlesbrough is the chief centre for Tees-side, but at present, the shopping area is not very attractive. It is too scattered. Heavy traffic runs through it, many of the shops are still converted houses (14). Tees-side is a developing region Tees-side is a developing region



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EDUCATION

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#### Location and Type of Schools

\*Location and size of schools School playing field facilities

#### **Catchment Areas**

All schools also R.C. and C. of E. grouped together (about 40 maps) Removals of families with school children

Non-attendance (court cases only)

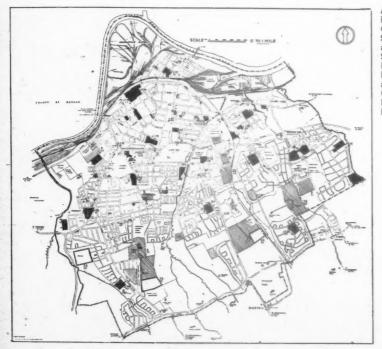
Secondary Schools

Leavers before 16 years of age

#### Proposals

★15 year programme 30 year programme Unfit schools





Above is a map showing the location and size of schools in Middlesbrough. Black areas denote local authority, Church of England and Roman Catholic Elementary Schools, and the shaded areas local authority Higher and Technical Schools and Roman Catholic Secondary Schools. On the left is a map showing Education Proposals for a fifteen-year period. Black areas denote local authority and Roman Catholic Primary schools, and the shaded areas local authority and Roman Catholic Bacarden areas local authority and Roman Catholic Secondary. The areas surrounded by heavy black lines are those sites which have already been bought for local authority secondary schools.

# THE DEFEAT OF THE MAGNETIC MINE

Assembling buoyant centres and electrode tails for Buoyant Cables in the HENLEY factories.

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Hitler's first "secret" weapon, the Magnetic Mine, was conquered by the gallant minesweepers of the Royal Navy using Buoyant Cables. A completely successful design was produced by Henley's in record time, and we have supplied many hundreds of complete sets, involving over 1,000,000 yards of cable.

This is yet another major victory of the war in which a leading part was played by Henley's.



ELEGRAPH WO

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# REFLECTIONS FOR TOMORROW

We cannot content ourselves by merely giving thought to the ideas of tomorrow and leaving it at that — we must convert them into the practical needs of today — now. New materials — new treatments — new designs, and yet, since newness alone is not a virtue, we must base these new ideas on old experience and present needs. Whilst we always have in view the reflections of tomorrow, we are working now for those stores and commercial premises who are concerned with reconstruction today.

# GEORGE PARNALL & CONTRACTOR SQUARE LONDON. W.C.I.





and needs a first-class shopping centre. The planners propose an island shopping centre (15) where buses will set down shoppers at the edges, and where they will be able to circulate without the danger of being nocked down. This will be on the same site as the present shopping centre (14). The planners also provide a group of daily needs shops within a quarter of a mile's walk from the home of every housewife, and three sub-centres for special needs. The new town centre which would include the shopping have a new civic centre ; this will take the form of an addition to the town hall (17) which was

### SHOPS

HE STORY

Location of, Shops General centres and isolated shops Empty shops Special shops

#### Prosperity

Centres blighted or prosperous Date of Establishment Number of employees Sugar registration turnover Housewives—where they buy: sugar, greengroceries, best clothes (3 maps)

Main Shopping Centre Town centre catchment area Sub-centre catchment area

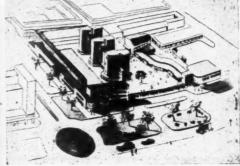
#### Local Centres

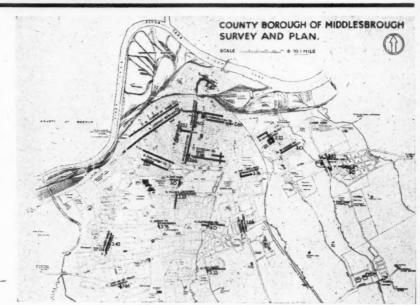
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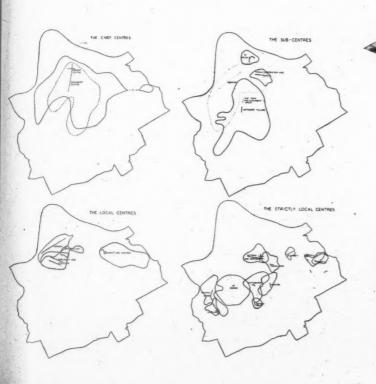
#### Proposals

Proposed shopping centres and num-









The map above shows prosperity and depression in shopping centres. The numbers at the side of each centre denote the following : over 3, prosperous ; 2-2.9, mixed, prosperous and poor ; under 2, poor. On the left are maps showing the various catchment areas of the chief, sub-local and strictly local shopping centres. The model above is part of the model of the new central area of the town showing the shopping precinct with the bus-station beyond.



THE TOWN CENTRE

(Maps relating also to HOUSING & NEIGHBOURHOODS) Wartime Social Survey Material Information relating to Housing (9 maps).

Catchment Areas Clubs (about 30 maps). Library users Post Offices Political boundaries and persuasion

Council Estates, Brambles and Whinney Banks Former address of past tenants Former address of present tenants Duration of tenancy

Neighbourhood Services Existing services (7 maps). Proposed neighbourhood services combined Existing neighbourhood services combined built in 1867 when the civic centre moved from the old market square (16). The later town hall is well sited for the needs of twentieth century Middlesbrough, and so around it the plan also provides cultural and entertainment centres, and centres for business, marketing and warehousing, as well as clubs, swimming baths, car parks, a new railway station, a new postal sorting office and extended parks. The map and the model below show the various groups of buildings, which, if carried out, as they well could be, given the support of the people of the town, would make Middlesbrough the star-town of the north.





Above is the model of the proposed town centre. The shopping precinct illustrated on the previous page is on the right, the new business centre in the foreground and the

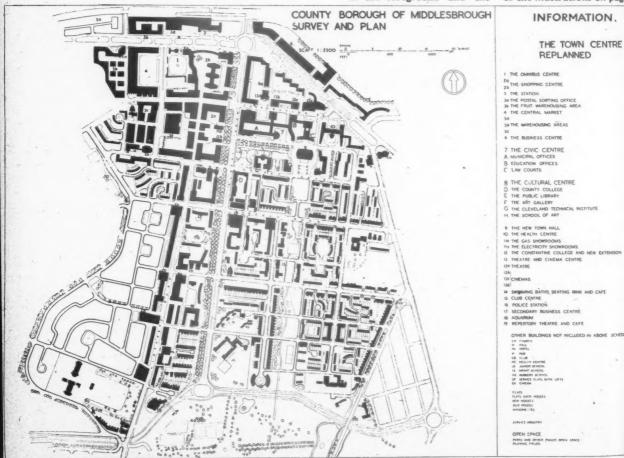
existing town hall and new civic centre beyond. The map below provides a key to the proposals for the central area, it can also be used as a guide to the illustrations on page 74

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# HOW WIDE IS TOWER BRIDGE ?

Spanning the broad river near the Tower of London, this famous bridge measures some 880 feet across - including its approach viaducts at either bank. Opened in 1894, it was the engineering miracle of its day. Try to picture a vast airplane hangar, with an entrance even wider than the Thames at Tower Bridge. What miracle of present-day engineering can produce doors of a size and strength to seal that great opening against wind and weather . . . doors that will slide back when not in use, folding themselves easily and unobtrusively to give completely unobstructed access?

Just another problem for ESAVIAN, designers of doors to fulfil every individual need, whatever its proportions. Now ESAVIAN are developing a Hangar Door which, when closed, will be approximately 1050 feet long by 65 feet

high, operating in three sections, each 300 feet clear the whole door opening or closing in under two minutes. Each door section will operate independently, either to the centre or ends as required.

END

ap a, ie

> Another example of the limitless adaptability inherent in the ESAVIAN principle of "slide and fold".



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## Announcements

Messrs. Pite, Son & Fairweather (Fellows RIBA), at present occupying temporary offices at 16, Market Square, Westerham, Kent, will shortly resume their practice in London as soon as suitable accommodation can be found. Major Geoffrey Hubert Fairweather, R.E. (A), will join the firm as a partner on his return from H.M. Forces.

Professor Sir Patrick Abercrombie has opened an office in conjunction with Mr. Richard Nickson at 33, Welbeck Street, London, W.1. Telephone: WELbeck 1681-2. All correspondence in connection with his private practice should now be sent to this address.

Mr. F. G. Southgate, A.R.I.B.A., A.M.T.P.I., M.I.M. & Cy.E., has taken up the appointment as Borough Architect at Walthamstow and would be pleased to receive current trade catalogues.

From July 15 all communications to Robert Hening & Anthony M. Chitty, M.A., F.R.I.B.A., A.M.T.P.I., should be addressed to the firm's London Office, which has now been reopened at 20, Gower Street, London, W.C.1. Telephone: Museum 8575 (4 lines).

Mr. Anthony J. Steel and Mr. Alec Owen, of the firm of Anthony Steel & Owen, A/ARIBA, 'have moved into permanent offices at Cogan Chambers, Bowlalley Lane, Hull, E. Yorks, and will be pleased to receive trade catalogues, brochures, etc.

Messrs. Ash's Manufacturing Co. (Blackfriars), Ltd., catering equipment manufacturers has changed its name to Messrs. Gardiner and Gulland, Ltd. The change has been made for domestic reasons. The board of directors, shareholding, management, staff and premises remain the same. Mr. Morton A. Mackenzie, Chartered Architect, having completed his appointment with the Ministry of Works, has now commenced in practice at Mawson's Buildings, Mosley Street, Newcastle-upon-Tyne, 1, where he will be pleased to receive trade catalogues.

All employees of Lorival Plastics, both works and staff, are to get an extra week's holiday with pay in addition to their 1945 summer holiday. In making this announcement the Directors and Management of the company, United Ebonite and Lorival Ltd., Little Lever, Bolton, conveyed to the workpeople their appreciation of the contribution which all have made to the war effort. Lorival Plastics, like other manufacturers, have been engaged during the last five years entirely on priority work for the Services.

THE ARCHITECTURAL STUDENTS ASSOCIA-TION announces that, under the revised Constitution, the offices of Publicity Secretary is superseded by that of National Secretary. Mr. D. M. Goodacre, fifth-year student at the Nottingham School, holds the new office, at the ARCH. S.A. Publicity Centre, School of Architecture, College of Art, Waverley Street, Nottingham.

Mr. A. E. Beezer, who has been appointed Works Manager to the General Cable Manufacturing Co., Ltd., Leatherhead, Surrey, commenced his career with the Weston Electric Company before the Great War, in which he served throughout with the Royal West Kents in Mesopotamia and Persia. Since then he has been continuously employed in the Electrical Cable Industry with the Telegraph Construction & Maintenance Company, Croydon Cables, and for the last ten years with his present company.

Mr. F. C. Edwards has been appointed Sales Manager of De La Rue Plastics Limited. Mr. Francis W. B. Yorke, F.R.I.B.A., M.Inst.B.E., Chartered Architect, of 36, Cal, thorpe Road, Edgbaston, Birmingham, 15has taken into partnership Mr. Horace Minns Barker, L.R.I.B.A. The practice will be continued under the style, Yorke & Barker.

Mr. C. F. Rumble, of Croxley Green, Herts, quantity surveyor, has opened additional offices at 29-31, Whitehall, London, S.W.I. He informs us that he will be pleased to cooperate again with old friends and will also welcome enquiries from architects who require the services of a quantity surveyor.

Mr. George Scott has been appointed manager of the Contracts Department of Messrs. F. McNeill & Co., Ltd., roofing contractors and manufacturers of building materials, of 10, Lower Grosvenor Place, London, S.W.1. Mr. Scott has been a member of the firm of Messrs. Wm. Briggs & Sons, Ltd., Dundee, for many years, and is well known in Scottish building circles.

Mr. Frederic E. Towndrow, F.R.I.B.A. (formerly a Senior Architect in the Directorate of Post-war Building, and recently Controller of Experimental Building Development in the Ministry of Works), has now resumed private practice at Iddesleigh House, Caxton Street, Broadway, Westminster, S.W.1. Telephone: Abbey 3311. As soon as Mr. Geoffrey Ransom is release from the Army, the firm will resume its previous title, Towndrow & Ransom, F. AND A.R.I.B.A., P.A.S.I., A.M.P.T.I., Chartered Architects, Housing, Town Planning, and Building Industries Consultants

Mr. Edward D. Mills, A.R.I.B.A., has resumed practice at 127, Cheapside, London, E.C.2. Telephone number : Monarch 2539, where he will be pleased to receive trade catalogues.

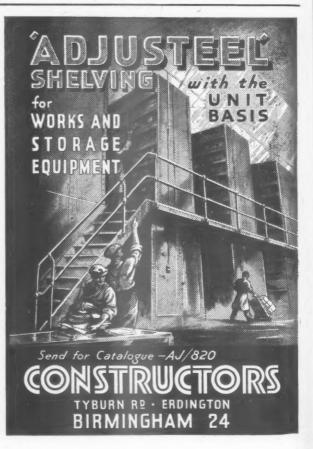
# Memorandum ON PRESENT & POST-WAR HOUSING

Medical Authorities have established that a large percentage of illness is due to lack of fresh air in our homes, especially in winter when windows are kept closed.

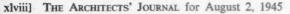
In the national interest, a serious attempt is being made to remedy this and the Government has decided that every room of every house under their present and post-war Building Schemes shall have positive ventilation giving a specified rate of air change without draught and independent of windows.



meets all these requirements. Technical leaflets 20/21 can be obtained from Dept. H COLT VENTILATION LTD., SURBITON, SURREY "Phome: ELMbridge (511 (4 lines)









THE ARCHITECTS' JOURNAL for August 2, 1945 [xlix

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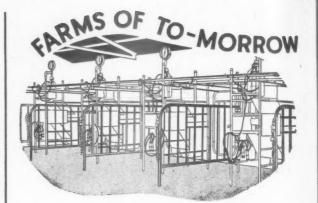
HOUNSLOW-67, Dene Avenue, HOUNSLOW, MIDDLESEX. MANCHESTER-509/513, Corn Exchange Buildings, 4. NEWCASTLE-ON-TYNE-90, Pilgrim Street. LEEDS-Prudential Buildings, Park Row. 1] THE ARCHITECTS' JOURNAL for August 2, 1945

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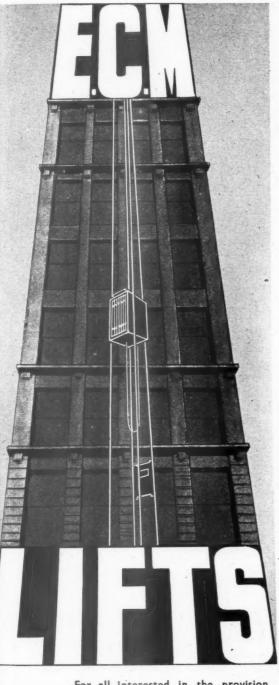
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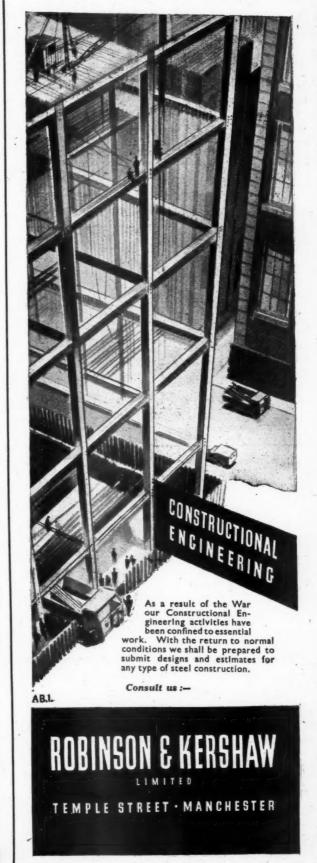
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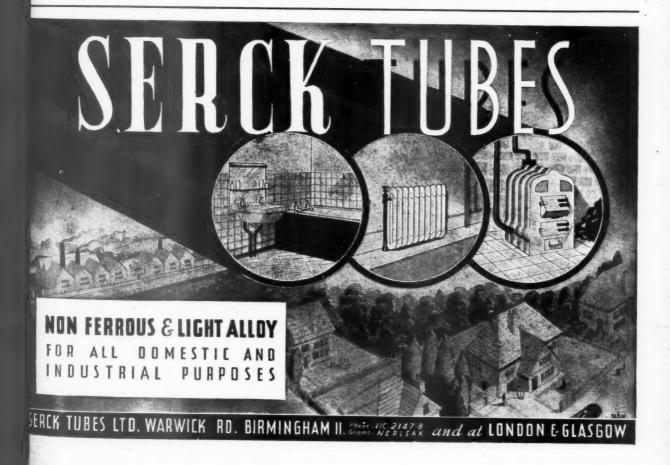






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#### liv] THE ARCHITECTS' JOURNAL for August 2, 1945

#### CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to e Advt. Manager, "The Architects' Advertisements should be underessed in the Advt. Manager, "The Architects' Journal." War Address: 45 The Avenue, Cheam, Surrey, and should reach there by first post on Friday morning for inclusion

in the following Thursday's paper. Replies to Box Numbers should be addressed care of "The Architects' Journal," War Address: 45 The Avenue, Cheam, Surrey.

#### **Public and Official Announcements**

Six lines or under. 8s.: each additional line. 1s. THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVIVORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners baving staff vacancies. ADDRESS: 75, EXTON PLACE, LONDON, S.W.1. TEL.: SLOAME 5615. 991

DERBYSHIRE COUNTY COUNCIL.

#### ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of a SENIOR ARCHITECTURAL ASSISTANT. The salary will be £400 per annum, rising by annual increments of £12 10s. to £450 per annum, plus cost-of-living bonus, at present £59 18s. per annum, and an allowance for extended office house.

hours

hours. Candidates must be qualified as Associates of the Royal Institute of British Architects, and over 30 years of age, unless medically unfit for Army Service. Applications should be sent to the undersigned by 11th August, 1945. The appointment is subject to the approval of the Ministry of Health. J. HARRISON, County Architect.

County Architect.

26th July, 1945.

THE NORTHAMPTON ELECTRIC LIGHT & FOWER CO., LTD.

#### ARCHITECTURAL ASSISTANT.

Applications are invîted for the position of Architectural Assistant, at a commencing salary of about £600 per annum, according to experience. Applicants should preferably be Associates of the R.B.A., with experience in the design and erection of offices, workshops, and sub-station buildinge erection buildings. The po

buildings. The position is permanent, and the person appointed will be required to pass a medical examination, and to contribute to the company's superannuation scheme. Applications, endorsed "Architectural Assistant," should reach the undersigned not later than first post or Monday, 13th August. E. G. H. JACKSON, *General Manager.* 25. Bridge Street, Northampton. 985

25, Bridge Street, Northampton COUNTY BOROUGH OF OLDHAM.

### APPOINTMENT OF ARCHITECTURAL ASSISTANT.

ASSISTANT. Applications are invited for the appointment of an Architectural Assistant in my Department. The salary will be at the rate of £360 per annum, rising by three increments to £465, plus £59 168. cost-of-living bonus. Applicants must be next and capable draughts-take out quantities and prepare estimates. They must possess a recognized Architectural qualifica-tion, and experience in a Municipal Office will be an advantage. The appointment will be subject to the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination. Conditions relating to the applications and be obtained from the under-signed.

appointment can be busined applications, stating age, qualifications and ex-perience, and accompanied by copies of three recent testimonials, must reach the undersigned not later than the Tth Angust, 1945. A. I., HOBSON, Borough Engineer and Surveyor. Municipal Buildings, 75, Union Street, 19th July 1945. 982

19th July, 1945.

#### COUNTY BOROUGH OF ROCHDALE.

TEMPORARY ARCHITECTURAL ASSISTANTS.

Applications are invited for Two Temporary Architectural Assistants, in the Department of the Borough Surveyor and Architect, at a salary of £320, rising to £350 per annum, plus war bonus, at present amounting to £59 16s. per

Annum. Applicants should be qualified Architects, and have had experience of school, hospital, and general work. Applications on forms to be obtained from the Borough Surveyor and Architect, Town Hall, Rochdale, must be delivered at the office of the undersigned not later than 9 a.m. on Thurs-day, 23rd August; 1945. HARBY BANN.

HARRY BANN, Town Clerk.

Town Hall, Rochdale. 23rd July, 1945.

#### KENT COUNTY COUNCIL.

RENT COUNTY COUNCIL. FIVE ARCHITECTURAL ASSISTANTS are required on the temporary staff of the Buildings Department. The basic salaries, which will not exceed 4400 a year in respect of four of these according to qualifications and experience. The posts may be superannuable, and the successful candidates will be required to pass a medical examination. Candidates must be experienced in the prepara-tion of preliminary plans, working drawings, and specifications for buildings of all types, and the supervision of works in progress. Application forms may be obtained from the Council's Architect, Buildings Department, Springfield, Maidstone, not later than the 15th August, 1945. W L DIATTS

W. L. PLATTS, Clerk of the County Council. 19th July, 1945.

REDDITCH URBAN DISTRICT COUNCIL.

#### APPOINTMENT OF ARCHITECT

Applications are invited for the above appoint-ment, at a salary of £525 per annum, plus cost-of-living bonus, at present amounting to £59 16s. per annum.

per annum. Apolicants must be registered Architects and A.R.I.B.A. or equivalent, and have had experi-ence in the preparation of large scale housing schemes. The person appointed will be required to work under the direction of the Engineer and Surveyor to the Council. The appointment will be a temporary one, for a period not exceeding two years in the first instance, terminable by one month's notice on either side.

Thereforence will be given to an ex-Service Applications, marked "Appointment of A ct," stating age, experience, qualification tect," stating agp, experience, qualifications, present and past appointments, and accompanied by copieg of not more than three recent testi-monials, must be submitted to the undersigned not later than 12 noon on Saturday, the 18th August, 1945.

### W. IRVING WATKINS, Clerk of the Council.

Council House, Redditch. 24th July, 1945:

997 BOROUGH OF CHELMSFORD.

#### ARCHITECTURAL ASSISTANTS.

ARCHITECTURAL ASSISTANTS. Applications are invited for the temporary appointment of two Architectural Assistants in the Office of the Borough Engineer and Surveyor, at a salary of £420 per annum, rising, subject to salisfactory service. by £20 per annum to £480 per annum, plus cost of living award, at present 23e. per week. Preference will be given to persons who have bassed the Final Examination of the Royal Institute of British Architects, or who held equivalent qualifications. Applicants should have had previous experience in the design of Council houses, housing layouts, etc. The appointments will be terminable by one month's notice on either side. Applications, stating age, qualifications. ex-perience and position with regard to military service. accompanied by copies of three recent testimonials, and endorsed "Architectural Assistant," should reach the undersigned not later than noon on Wednesday, 22nd August, 1945. VINCENT J WILLIS

1945.

VINCENT J. WILLIS, M.Inst.M. & Cy.E., Reg. Arch., Borough Engineer and Surveyor and Planning Officer. bioal Offices, Rainsford House, Duke Street, Chelmsford. 56 502 COUNTY BOROUGH OF BOLTON

Applications are invited for the following tem-porary appointments in the Housing Depart (1) ARCHITECTURAL ASSISTANT. (2) OUANTITY SURVEYOR Depart-

Municipal

Applications are in the Housing Depart-ment — (1) ARCHITECTURAL ASSISTANT. (2) OUANTITY SURVEYOR. Applicants should be fully qualified and have had considerable housing experience, preference being civen to members of the Royal Institute of British Architects and Surveyors Institution. The salary for each post will be from 4400 to 4500 per annum, according to the experience and qualifications of the successful applicant, plus war bonue, at present £59 198, per annum. Applications, appropriately endorsed, stating age, qualifications, details of experience, and accompanied by copies of three recent testi-monials, should be sent to the Housing Director, Town Hall. Bolton, the New Clerk. Town Hall, Bolton.

Town Hall, Bolton. 27th July, 1945. 501

#### CITY OF OXFORD.

Applications are invited for the appointment of JUNIOR ARCHITECTURAL ASSISTANT in the Department of the City Estates Enveyor and Architet to the Education Committee; appli-cants should have passed the Intermediate ex-amination of the R.I.B.A. Salary £250 per annam, inclusive of bonns. Applications, stating age and details of ex-perience, together with copies of two recent testimanials, should be sent to the Architect to the Education Committee, Town Mail, Oxford, not later than 18th August, 1945.

993

### ELLAND URBAN DISTRICT COUNCIL

### APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the temporary ppointment of Architectural Assistant, in the ngineer and Surveyor's Department. Salary 320-£20-£400, plus cost of living bones, at resent 6:50 16a present £59 16s.

Applicant 259 10s. Applicants must be registered Architects and A.R.I.B.A., or equivalent, and have had consider. able experience of Local Authorities' Housing Schemes, and in the design of Municipal Build-ing ganerely. Applications from men in H.M. Forces will be ings

considered. Applications, endorsed "Architectural Assistant," stating age, qualifications, details of experience, and position regarding National Service, 'together with copies of three recent testimonials, to be sent so as to reach the under-signed not later than Tuesday, the 21st August, Applicants, abcold states

1945. Applicants should state whether to their know. ledge they are related to any member or Senior Officer of the Council. Canvassing will be a disqualification.

A. W. HOWARTH, Clerk of the Council. The Council Offices, Southgate, Elland, Yorkshire. 966

### THURROCK URBAN DISTRICT COUNCIL. ENGINEER AND SURVEYOR'S DEPARTMENTS.

DEPARTMENTS. Applications are invited for the following tem-porary technical appointments :-(a) ARCHITECTURAL ASSISTANT. Salary on the scale £320 x 215-£320, plus war bonne, at Associateship of the R.I.B.A. will be an ad-vantage, and experience in the design and con-struction of houses, including repairing, drawings and specifications, is essential. (b) ARCHITECTURAL DRAUGHTSMAN, Salary on the scale. £250 x £15-£305, plus war bonns, at present £59 16s, per annum. Candidates must be neat and expeditions architectural drawings. Applications, sits descent accompanied by not more than three recent testimonials, should be addressed to the undersigned, to reach me by first post Monday, 18th August, 1345. A. E. POOLB.

Council Offices, Whitehall Lane, Grays, Essex. 17th July, 1945.

### NEWMARKET RURAL DISTRICT COUNCIL.

#### APPOINTMENT OF ARCHITECT.

Applications are invited for the above whole-time appointment, at a salary of £600 per annum. plus cost of living bonus (at present 259 16s. per annum). The appointment will be subject to the pro-visions of the Local Government Superannuation Act, 1937, and to one month's notice on either

Acc. Applicants should be Associate Members of the Applicants should be Associate Members of the R.I.B.A., or hold equivalent qualifications. The person appointed will be required to carry out all Architectural duties in connection with the Council's housing schemes, and all other from time to time by the Council. He will also be required to provide and maintain a car for the purposes of his duties, for which a travelling allowance will be paid in accordance with the Council's scale. Applications on forms to be tained from the undersigned, must be made by Tnesday, 7th August, 1945. T. H. BROWN,

T. H. BROWN, Clerk to the Council Council Offices, Park Lane, Newmarket.

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

Wherever possible prospective employers are urged to give in their advertisement full information about the duty and response bilities involved, the location of the office, and the salary offered. The inclusion of the Advertiser's name in lieu of a box number is welcomed.

QUALIFIED ARCHITECTURAL ASSISTANT QUALIFIED ARCHITECTURAL ASSISTANT wanted; temporary engagement, about 2 years; candidates should have had good ar perience in design and construction of modern warehouses, offices, industrial buildings, etc.; salary about £650, according to qualification and experience. Applications, with copies of jeed-monials, to Dock's Engineer, Southern Railway, Southampton.

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EXPERIENCED ARCHITECT; taking charge drawing office; state qualifications and mary required. Apply Box 969.

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a. 1 SENIOR ASSISTANT required by West End Architects; capable of taking complete darge of important contracts. Apply in writing, saing qualifications and salary required, to I. Stanley Beard & Bonnett, F/L.R.I.B.A., 20, Baker Street, London, W.1. 938

D EQUIRED immediately, experienced Architec-be taral Assistants. Must be first-class draughts-ent. Apply, stating age. salary and experience, Bert d. Rowse, F.K.I.B.A., Martins Bank Salding, Liverpool 2. 848

ADVANCED JUNIOR ASSISTANT required by West End Architects; must be good (magnitsman, experienced in detailing, making mreys, and measured drawings. Apply in miling, stating qualifications and salary re-quired, to J. Stanley Beard & Bennett, I/L.R.I.B.A., 101/3, Baker Street, London, W.1. 930

A BCHITECT requires capable Assistant; London West Central district; state experi-ments and salary required. Box 980.

TWO ARCHITECTURAL ASSISTANTS I wanted in London Office of Staff Architect large industrial company; well trained; good daughtsmen; able to handle large and small iss from sketch plans to finish; salary 2004250, according to qualifications. Apply Box 986.

ABCHITECTURAL ASSISTANT required in proportional office; 30 miles from London; good proports for right man; small house available; site experience, qualifications, and salary re-quired. Box 988.

TWO ARCHITECT'S ASSISTANTS wanted immediately for Industrial Rebuilding Pro-gamme in Midlands; state age, experience, and slary required, and if free to take up appoint-ment. Box 994.

A BCHITECT'S ASSISTANT réquired. Apply, A stating age, experience, and salary, to Hency C. Smart & Partners, architects and sur-regors, 251.3, Finsbury Pavement House, 120, Moorgate, E.C.2.

A RCHITECT'S ASSISTANTS required (hree). Apply, giving full particulars of coperience, to Lawton, Knight & Co., Chartered inhitects, Regent House, Rotherham. 504

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