СНІТЕ

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

	AA AAI	Architectural Association, 34/6, Bedford Square, W.C.1. Museum 0974 Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhampstead, Herts.	
	ABS ABT ACGB	Architects' Benevolent Society. 66, Portland Place, W.1. Welbeck 5721 Association of Building Technicians. 5, Ashley Place, S.W.1. Victoria 0447-8	
tandard contents	ADA	Arts Council of Great Britain. 4, St. James' Square, S.W.1. Whitehall 9737 Aluminium Development Association. 33, Grosvenor Street, W.1. Mayfair 75. /8 Association for Planning and Regional Reconstruction. 34, Gordon	

Association for Planning and Regional Reconstruction. 34, Gordon Square, W.C.1. Fuston 2158-9 Architectural Students' Association. School of Architecture, Manchester Municipal School of Art, All Saints, Manchester, 15. Ard Architects' Registration Council. 68, Portland Place, W.1. Wel Architectural Science Board of the Royal Institute of British Architects. ArchSA Ardwick 3480 Welbeck 9738 ARCUK

ASB 66, Portland Place, W.1. Welbeck 5721 AScW

Association of Scientific Workers. 15, Half Moon Street, Piccadilly, W.1.

Grosvenor 4761 Welbeck 5721 BAE Board of Architectural Education. 66, Portland Place, W 1. BATC

Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1.
Reliance 7611, Ext. 1706
Mayfair 8641/6 BC Building Centre. 9, Conduit Street, W.1.

British Colour Council. 28, Sackville Street, W.1.

British Cast Concrete Federation. 17, Amherst Road, Ealing. W.13.

British Cast Iron Research Association. Alvechurch, Birmingham.

British Door Association. 25, Victoria Street, S.W.1.

British Gas Council. 1, Grosvenor Place, S.W.1.

Sloane 4554

Sloane 4554

Sloane 4554

Sloane 4566 BCC BCCF BCIRA BDA BEDA BGC British Gas Federation. 1, Grosvenor Place, S.W.1.
British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2. BGF Sloane 8266

BIA Glasgow Central 2891 British Institute of Adult Education. 29, Tavistock Square, W.C.1. Building Industries Distributors. 52, High Holborn, W.C.1. Building Industries National Council. 11, Weymouth Street, W.1. BIAE Euston 5385 Chancery 7772 BID BINC Langham 2785 Board of Trade. Millbank, S.W.1. ROT Whitehall 5140 BRS Building Research Station. Bucknalls Lane, Watford Garston 2246

BSA Mayfair 0515 Building Societies Association. 14, Park Street, W.1. BSI British Standards Institution. 28, Victoria Street, S.W.1. Abbey 3333 Building Trades Exhibition. 4, Vernon Place, W.C.1. BTE Holborn 8146/7 CAS

County Architects Society. C/o A. Guy Chant, F.R.I.B.A.
Salop County Council, 5, Belmont, Shrewsbury. S
Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.
Copper Development Association. Kendals Hall, Radlett Herts. **Shrewsbury 3031** CCA Sloane 5255 CDA Radlett 5616 CIAD Central Institute of Art and Design. 41, 42, Dover Street, W.1. Regent 3074

CIAM Congrès Internationaux d'Architecture Moderne. Doldertal, 7. Zurich, Switzerland CID Council of Industrial Design. Tilbury House, Petty France, S.W.1. Whitehall 6322 Codes of Practice Committee. MOW, 42, Onslow Gardens, S.W.7. CPC

Kensington 8161 CPRE Council for the Preservation of Rural England. 4, Hobart Place, S.W. Sloane 4280

Coal Utilization Joint Council. 13, Grosvenor Gardens, London, S.W.1. **CUJC** Victoria 1534

DIA Design and Industries Association. 9, Conduit Street, W.1. Mayfair 0477 DOT Department of Overseas Trade. 35, Old Queen Street, S.W.1. Victoria 9040 EC Electricity Commission. Savoy Court, Strand, W.C.2. Temple Bar 7565

EJMA English Joinery Manufacturers Association (Incorporated). Sackville House, 40, Piccadilly, W.1. Regent 4448 **EPNS** English Place-Name Society. 7, Selwyn Gardens, Cambridge.

FAS Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1. Sloane 2837 FB 1951 Temple Bar 1951

Festival of Britain 1951. 2, Savoy Court, Strand, W.C.2.
Federation of Association of Specialists and Sub Contractors.
21, Tothill Street, S.W.1. FASSC Whitehall 9606

FBI Federation of British Industries. 21, Tothill Street, S.W.1. Whitehall 6711 FC Forestry Commission. 25, Savile Row, W.1.

Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.

Sloane 1002 **FCMI**

The Flush Door Manufacturers Association Ltd. 110well, 130well, 13 The Flush Door Manufacturers Association Ltd, Trowell, Nottingham. Ilkeston 623 **FDMA** FLD

FMB Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1. Chancery 7583

Federation of Registered House Builders. 82, New Cavendish Street, W.1.

Langham 4041 FRHB FS (Eng.) Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.W.1.

Sloane 2837 GG Georgian Group. 27, Grosvenor Place, S.W.1. Sloane 2844 HC Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1. Whitehall 2881

Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1. IAAS Sloane 3158 ICE Institution of Civil Engineers. Great George Street, S.W.1. Whitehall 4577

standard contents

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

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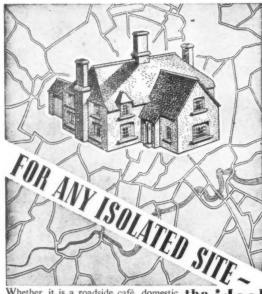
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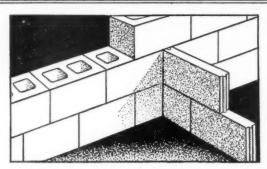


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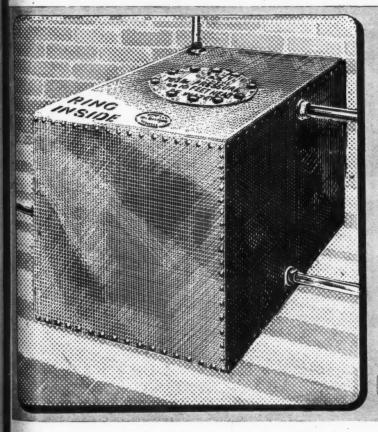
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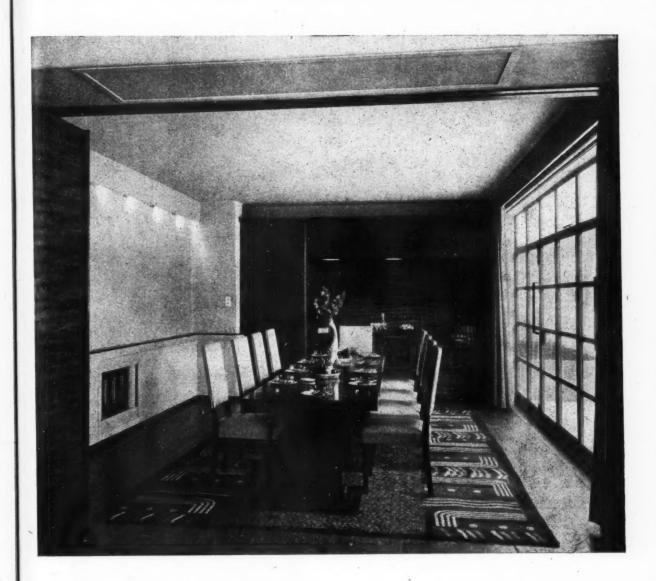
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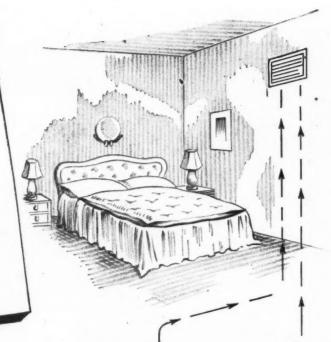


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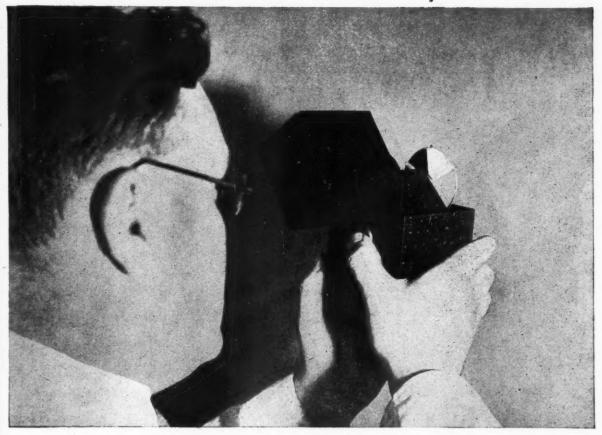




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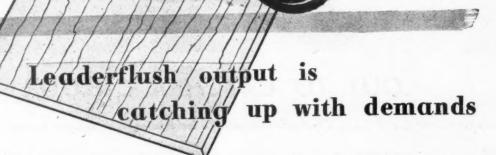
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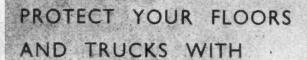
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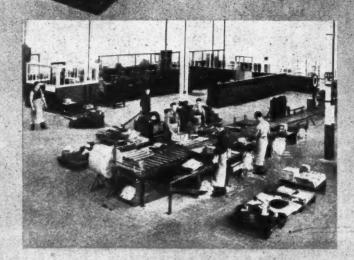






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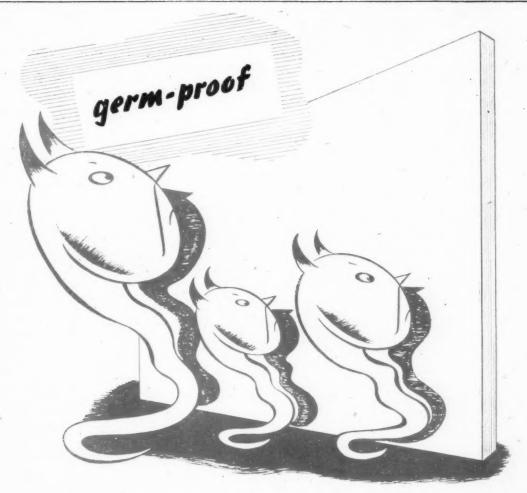
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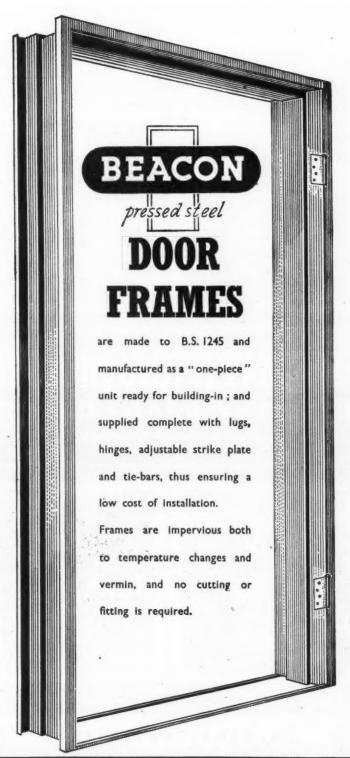
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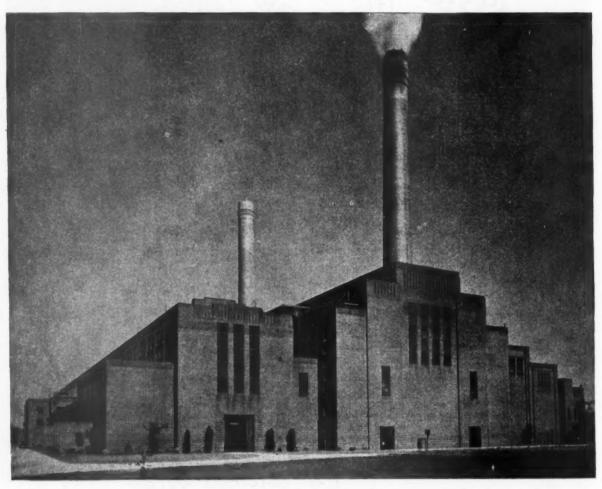
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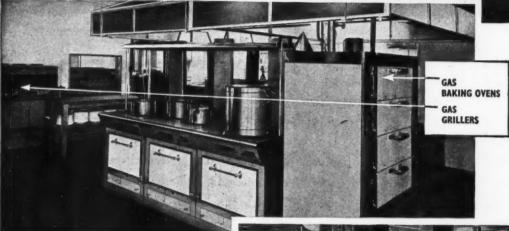
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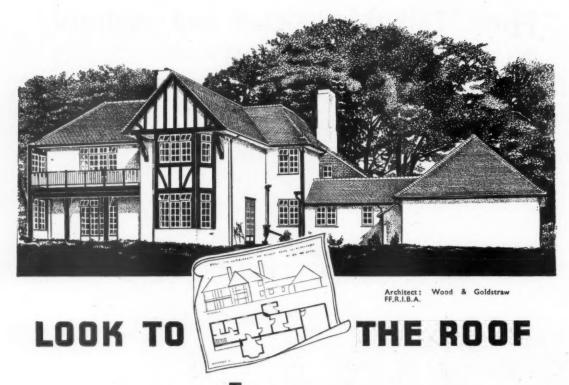
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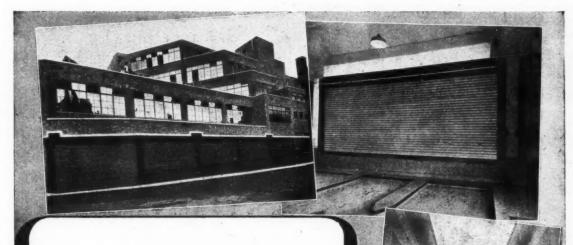
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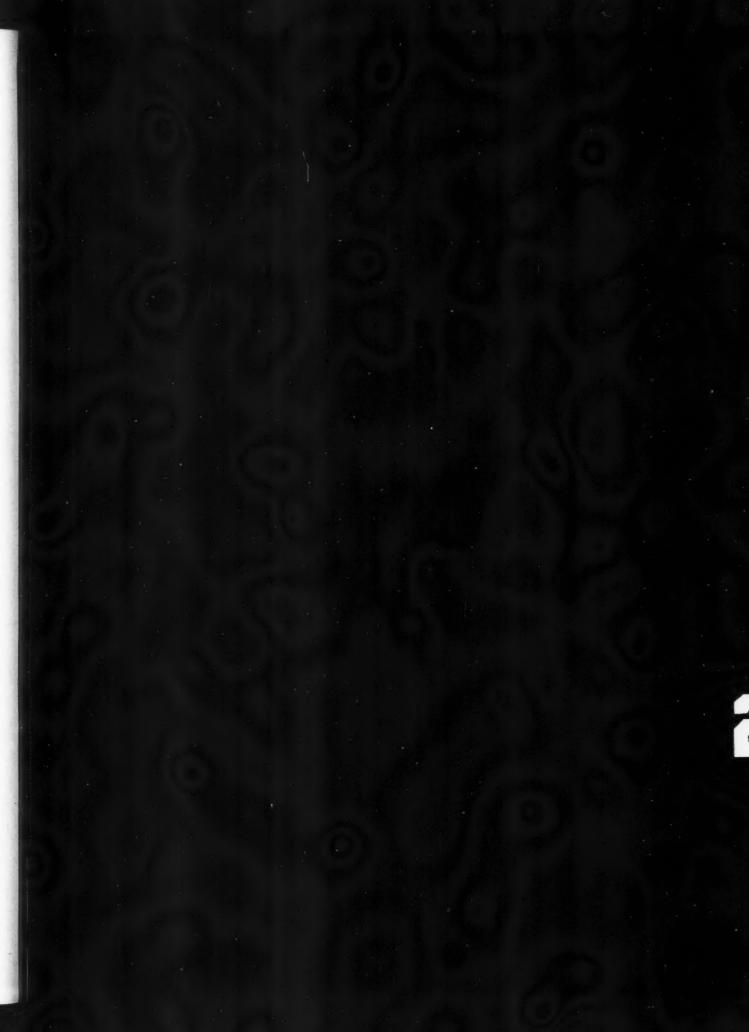
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The age-old routes from the East to the Mediterranean began to be harassed and plundered by the incursions of the Turks into Asia Minor, so that the urge to conquer the Atlantic winds and seek an ocean passage to the East acquired a new stimulus.

The Portuguese were destined to take the lead as they had perforce to learn their seamanship in the stern Atlantic fringes. They were fearless seamen of no mean ability and under Prince Henry the Navigator, a college was founded which devised improved sailing methods and navigation. The method of sailing against adverse winds was discovered and so solved the problem of beating back against the Trade Winds of the Atlantic.

Year by year new trading posts were established on the African coast until in 1487, Bartholomew Diaz reached Algoa Bay unaware that he had rounded the southern point of Africa. On his return he sighted it and

THE CAPE OF GOOD HOPE

named it "Cape of Good Hope." In 1498 Vasco da Gama rounded the Cape again, and thence steered across the Indian Ocean to Calcutta.

The sea route to the East was open. Pepper, nutmeg, cloves and ginger; fragrant spices, musk and medicines: sapphires, rubies, pearls and diamonds, all came pouring into Lisbôn. In their little ships of no more than 400 tons burden, the Portuguese sent in return, lead, silver, copper, mercury, alum and other goods.

Dutch, French, and lastly, the British followed the lead of the Portuguese. Britain rapidly assumed a position of importance and soon eclipsed all other rivals for the Eastern trade.

Ships became larger and less encumbered with fighting men. By taking the Trade Winds far into the Atlantic before making the easting, the tedious coastal crawl round Africa became unnecessary. Trade was opened up not only in Arabia, the Persian Gulf and India, but in Malaya, China and Formosa.

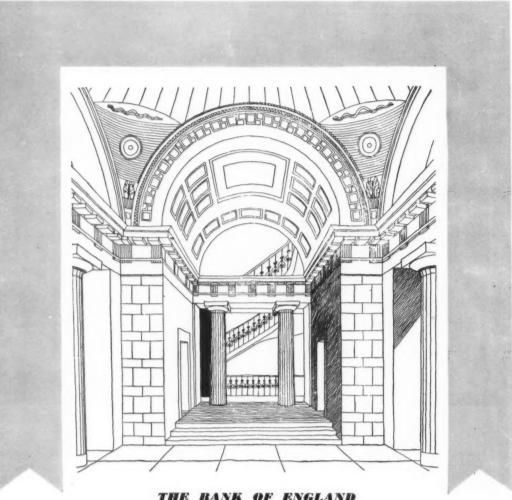
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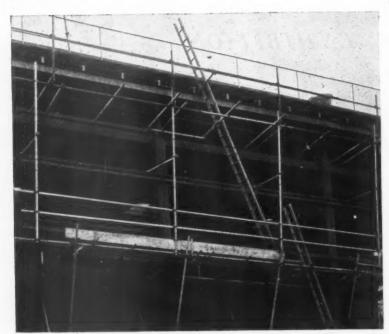
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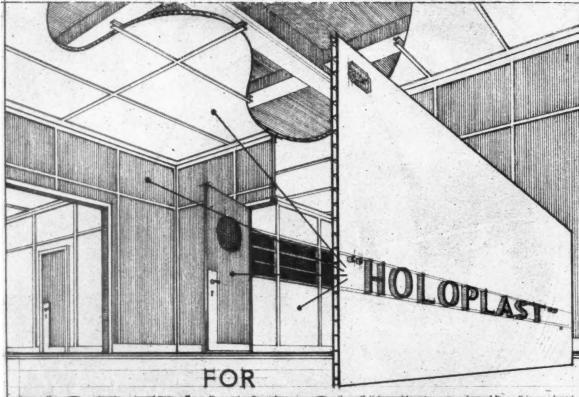
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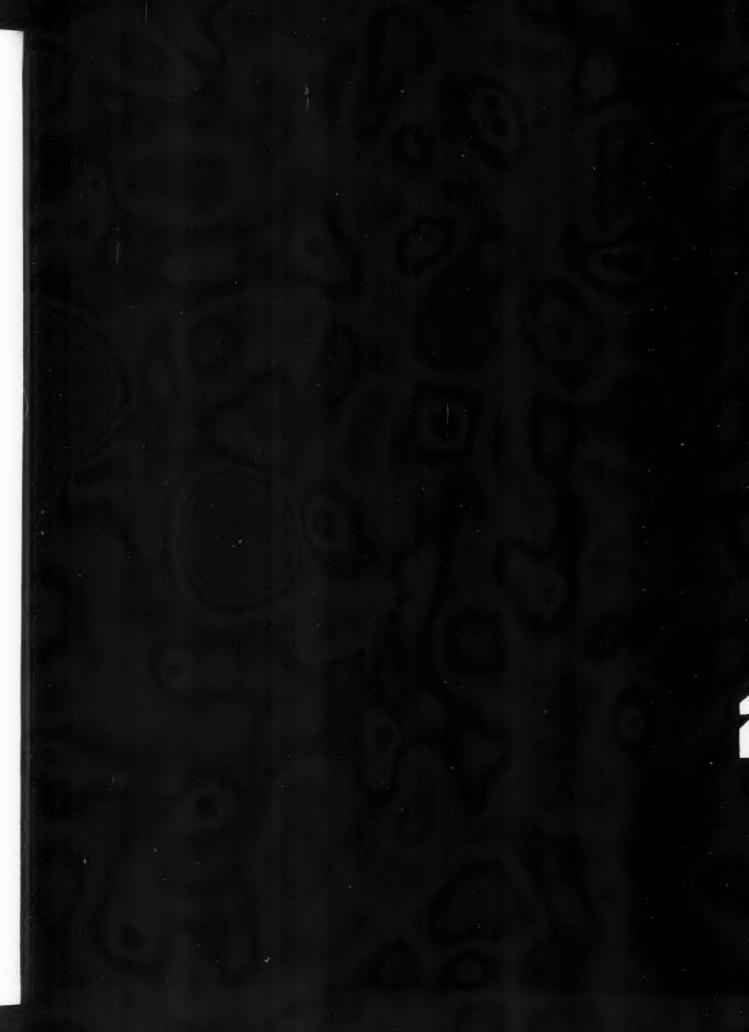
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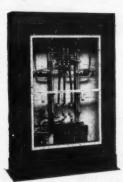






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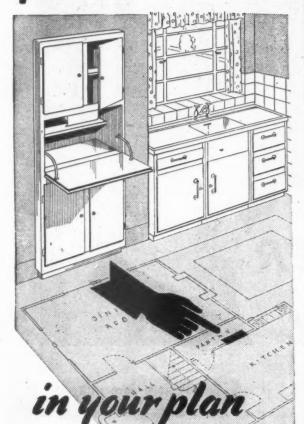
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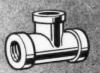






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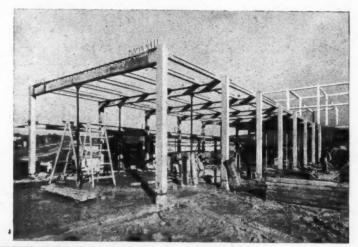


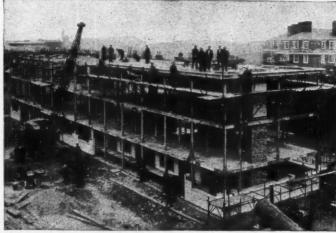
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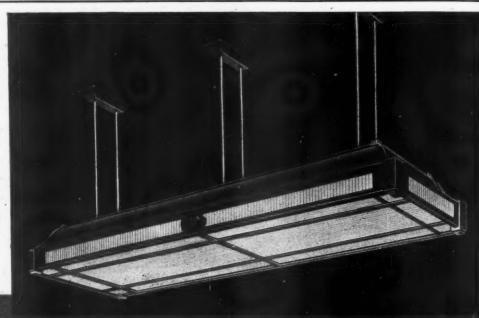
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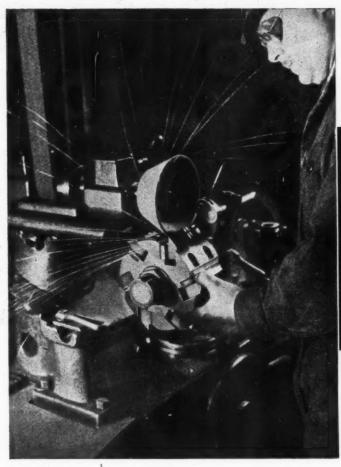
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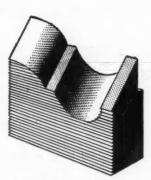
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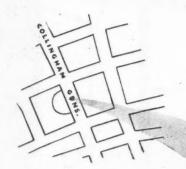
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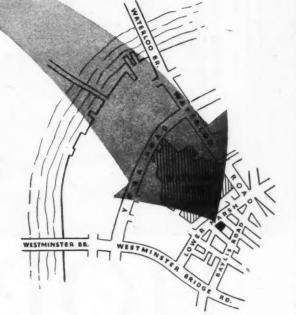


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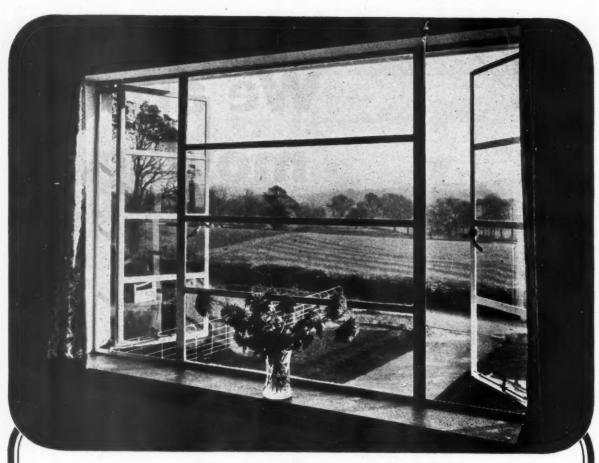
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In common with every other periodical, this JOURNAL is rationed to a small part of its pre-war consumption of paper. Circulation is therefore temporarily restricted but would-be subscribers are advised to have their names put on the waiting-list. Their names will then



on the waiting-list. Their names will then be added to the subscription list as soon as possible. Subscription rates: by post in the U.K. or abroad, £1 15s. Od. per annum. Single copies, 9d.; post free, 11d. Special numbers are included in subscription; single copies, 1s. 6d.; post free, 1s. 9d. Back numbers more than 12 months old (when available), double price. Volumes can be bound complete with index, in cloth cases, for 15s. each; carriage 1s. extra.

DIARY FOR NOVEMBER DECEMBER AND JANUARY

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

LONDON. Danish Art Exhibition. At the Victoria and Albert Museum, S.W.7. (Sponsor, Victoria and Albert Museum.)

Modern Views on Concert Hall Acoustics. Discussion to be opened by Hope Bagenal. At the Royal Society of Arts, 6, John Adam Street, London, W.C.2. The discussion is intended to review the position, particularly in respect of concert halls for London. Musicians, music critics, scientists and architects will be taking part. (Sponsor, The Acoustics Group of the Physical Society). 2.30 p.m. Tea will be served at 5.15 p.m.

Exhibition of Members' Sketches. At the AA, 34/6, Bedford Square, W.C.1. (Sponsor, AA.)

International Housing Exhibition. At the Empire Hall, Olympia. Nov. 9-18

A Series of Papers on Industrial Design.
R. S. Edwards. Social and Economic Aspects of Industrial Design. Nov. 10. Nikolaus Pevsner. Design in Relation to Industry through the Ages. Nov. 24. M. Hartland Thomas. Industrial Design and the Engineering Industries. Dec. 15. Milner Gray. The Industrial Designer and Consumer Goods. Jan. 19. Gordon Russell. The Industrial Designer's Responsibility. Feb. 2. Robin Darwin. The Training of the Industrial Designer. Feb. 16. John Gloag. British Industrial Designand World Markets. March 2. At the RSA, John Adam Street, W.C.2. (Sponsor, RSA.) All meetings begin at 2.30 p.m.

Sir Malcolm Trustram Eve. The Central Land Board's Policy. At the ICE, Great George Street, S.W.I. (Sponsor, TCPA.) 6.15 p.m. Nov. 15

Hartlepool's Planning Exhibition. The Max Lock Group's planning proposals for Hartlepool. At the Planning Centre, 28, King Street, W.C.2. Nov. 15-30

Gilbert McAllister, M.P. Gaps in the Planning Pattern. At the Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.) 6.15 p.m.

O. Bondy. Welding in Constructional Engineering. At the Polytechnic, Regent Street. (Sponsor, The Institute of Welding—North London Branch.) 7.30 p.m.

Nov. 18

Course in Colour and Lighting in Factories and on Machines. At the RIBA, 66, Portland Place, W.1. (Sponsor, CID.) Nov. 24-26 Alister MacDonald. The Influence of Hygiene on the Shape of Buildings. At the Royal Sanitary Institute, 90, Buckingham Palace Road, S.W.I. Chairman, Frederick R. Hiorms. (Sponsor, Chadwick Trustees.) 2.30 p.m. Nov. 23

R. Gordon Brown. A New Form of Architectural Education. At the AA, 34/6, Bedford Square, W.C.1. (Sponsor, AA.) 7.45 p.m.

R. Furneaux Jordan. As Far as Thought Can Reach. At the AA, 34/6, Bedford Square, W.C.1. (Sponsor, AA.) 7.45 p.m. Nov. 24

Building Teachers' Conference. At the Northern Polytechnic. (Convener, D. A. G. Reid, Brixton School of Building.) 10.30 a.m. to 4 p.m.

MAIDSTONE. W. Scrivens. The Town Planning Act. At the Maidstone Technical Institute, Tonbridge Road, Maidstone. (Sponsor, S.E. Society of Architects, Maidstone Group.) 7 p.m. Nov. 30

MARGATE. National Housing and Planning Conference. At the Winter Gardens, Margate. (Sponsor, Scottish National Housing and Town Planning Council.)

N EWCASTLE. D. A. Stewart. Vibrated Concrete. A course of four lectures and four practical periods. At King's College, Durham University. Course fee, 15s. Further particulars from the Director of Extra-Mural Studies, King's College, 7, Windsor Crescent, Newcastle, 2. (Sponsor, Durham University.) Nov. 29 To Dec. 3

PROVINCES. Allied Ironfounders' Exhibition Train. Schedule of its provincial tour: Sheffield, until Nov. 6, Sheffield (Victoria) Station, No. 1 Platform. Hull, Nov. 8-13, Hull (Paragon) Station, Milk Dock. Leeds, Nov. 15-20, Leeds City South Station, No. 14 Platform. Bradford, Nov. 22-27, Bradford (Forster Square) Station, No. 4 Platform. Middlesbrough, Nov. 29-Dec. 4, Middlesbrough Station. West End Dock. Newcastle-on-Tyne, Dec. 6-11, Newcastle-on-Tyne (Central) Station, West End Dock. Edinburgh, Dec. 13-18, Edinburgh (Waverley) Station, No. 5 Platform. Glasgow, Dec. 20-Jan. 1, Glasgow (St. Enoch) Station, No. 12 Platform.

COMPETITIONS

Layout of Southport Pleasureland.
Premiums: £250, £100, and £75. Further information from Southport Publicity and Attractions Committee.

ENTRIES BY NOV. 30

NEWS

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

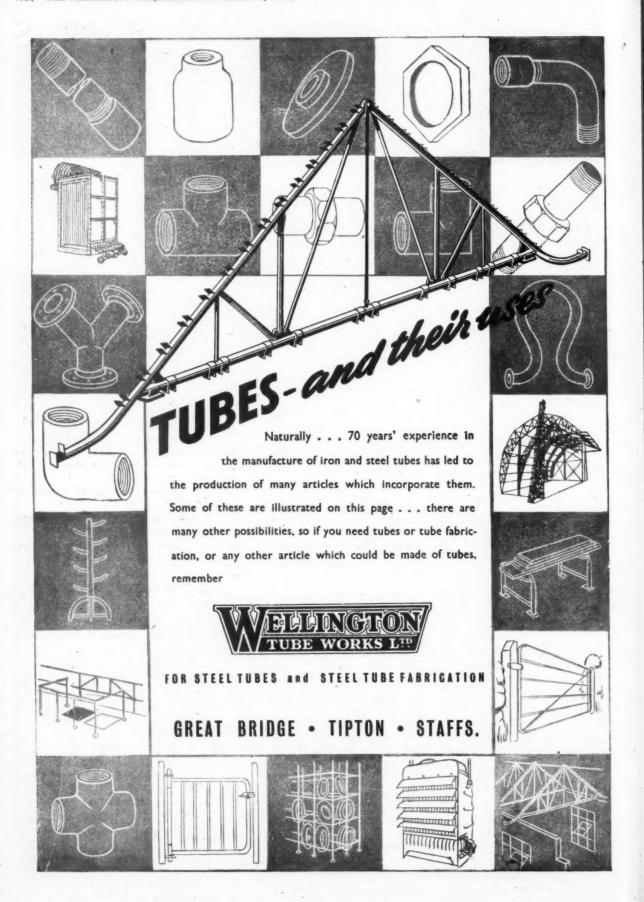
** means important news, for reasons which may or may not be obvious.

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

A ROMAN WALL has been excavated at Canterbury. It is near the Riding Gate, where the mediæval wall was blasted by a bomb in 1942. It is believed to be the best example south of York of a Roman wall built round an existing city. The foundations probably date from the end of the second century A.D. The construction is in flint. The postings consist of flint and Roman cement on a bed of loose flints in a shallow trench. The original dimensions of the wall were 8 ft. above surface level and 6 ft. wide. Its condition has undergone remarkably little deterioration.

MOTCP has approved the War Department's building programme at BARTONSTACEY.

The Ministry has announced approval of the plan to build married quarters for the training camp at Barton Stacey, Hampshire. The first year's building programme may now be proceeded with. The decision follows a public inquiry held on June 2 at Andover at which objections were raised on the ground that the site was too close to the village, and that 500-600 families would swamp the village, making it a valueless appendage to an army camp.



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From AN ARCHITECT'S Commonplace Book

THE LONDON CONSCIENCE. [From London Echoing, by James Bone (Jonathan Cape).] Londoners have a way of staging a tremendous fuss over a nonsensical loss such as the departure of the elderly elephant Jumbo to America or such matters as the sale of a secondary Rembrandt to a country that has few and not rumpling a hair over the dispersal of its fleet of river steamers or the continual exile of Wren's Temple Bar to the country, or the destruction and disfiguring of the Temple trees by a Temple Committee whose conscience may have been troubling them because they had not the fore-thought to remove the great Crusader effigies from their Church and so they were destroyed in the blitz. London did make a fight for old Waterloo Bridge, one of its grander sights which could have been strengthened to do its work till a new Charing Cross bridge at the proper axial point took the traffic increase; but down it came. When the new bridge was opened, it was also discovered from the bridge that big business had put up a building to ruin the view of St. Paul's from the north end of the bridge and the Government's Post Office department had bent the law to erect a building that interfered even more blatantly with the view of St. Paul's from the bridge centre. But credit must be given about Crosby Hall, the last of the great historical mansions of the City, which was saved (but alas not in situ!) by the citizens putting their hands in their pockets and ransoming it. The Adelphi of the Adam brothers, however, was too expensive for our financial conceptions in peace time, but there were no very loud outcries among our publicists or learned societies or sentimental Londoners when it was destroyed.

**
MOW has announced further relaxations of BUILDING CONTROLS.

tions of BUILDING CONTROLS. They include an increase in the financial limit for building licensing for certain classes of buildings and the cancellation of the WBA Priority Distribution Scheme. These relaxations took effect on November 1. The Ministry states that they have been made possible as a result of an increase in the supply of materials and by a reduction inthe overload on the building industry consequent upon capital expenditure cuts. Under the new Order the amount of £100 that could be spent on any single property without a building licence between July 1, 1948, and June 30, 1949, has been increased to £1,000 in the case of certain special classes of buildings, viz., buildings used wholly as factories; warehouses; farm buildings (excluding farm houses); educational buildings; and office buildings with a floor space of 10,000 sq. feet or more. Where there is more than one such building on a single property will still be £1,000. The limit of £100 for the year beginning July 1, 1948, remains unchanged for all other buildings, and this means it will still be necessary to apply for licences for work over £100 on houses, shops, and all building not included in the categories mentioned above.

The Ministry points out that the new relaxations are part of the declared policy to simplify controls as conditions permit. Unfortunately supplies of timber and steel are still scarce, and the Ministry feels unable as yet to introduce any relaxation in the allocation schemes for these materials. The special classes of buildings to which the new financial limit applies are those on which work carried out would normally be of an essential character, and for which licences have readily been granted in the past.

The Minister of Town and Country Planning proposes to make an order for the compulsory purchase of 230 acres of land in the CITY OF LONDON.

The order is to enable war damage to be dealt with. The City Corporation applied to the Minister for an Order to purchase 272 acres. Among the areas included in the application which it is now proposed to exclude are the following:—(a) The rail approaches to Holborn Viaduct, Cannon

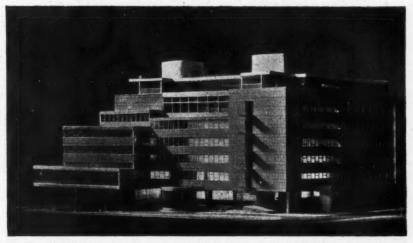
Street and Fenchurch Street Stations; (b) portions of the Inner Circle Railway; (c) a number of City churches, including St. Andrew, Holborn, the City Temple, St. Giles, Cripplegate, St. Mary-le-Bow, St. James Garlick Hythe, St. Mary Aldermanbury, All Hallows, Barking-by-the-Tower, St. Botolph, Aldgate; (d) the land between Aldgate High Street, Minories, and the City boundary; (e) the land between Queen Street Place, Upper Thames Street, Queen Hithe Dock and the river; (f) an area on both sides of Holborn Viaduct between Holborn Circus and Farringdon Street. The City Corporation will be giving notice soon of the place where a map showing details of the Minister's proposed modifications can be inspected.

The West Riding County Council have published their DEVELOPMENT PLAN FOR PRIMARY AND SECONDARY EDUCATION.

It is proposed to build nearly 900 new schools, close over 400 existing schools, and to make substantial extensions and alterations to 600 others. The completed plan proposes 34 multilateral schools, 62 bilateral

schools, 15 grammar schools, and 47 modern schools for secondary education, 932 primary schools, and some 500 nursery schools. The period for the completion of the plan has not been defined, but is likely to be about 30 years. The capital expenditure involved is estimated at nearly £55 millions. The work is divided into four priorities, and expenditure on work of first priority is likely to be £30,785,798.

Mr. R. Coppock, General Secretary of the NFBTO believes 500,000 HOUSES A YEAR to be possible. Speaking at the Institute of Housing Conference at Brighton, Mr. Coppock said:—"I am firmly of the opinion that we can build 500,000 houses a year if employers and workers are imbued with a sense of social urgency, if they are given the means, if there is no constant change of plan, and, most important of all, if all concerned are given the opportunity to get on with the job with the minimum of interference. The industry now has about a million men. If the labour of half of these can be restricted solely to house building, then half a million houses can be built annually."



The premiated designs in the recent competition for a memorial building for the TUC were illustrated in the JOURNAL for July 22. The photograph above shows the model that has since been made by the architect whose design won the first prize, Mr. David du R. Aberdeen.

Denmark in the News

The exhibition of Danish Art Treasures through the ages, the largest of its kind ever to have been collected under one roof, was opened by the King of Denmark at the Victoria and Albert Museum last week. A selection of exhibits from the modern section is illustrated on page 426. Concurrently with the exhibition *The Architectural*

Review for November is publishing a special Danish number, and the photograph above shows one of the buildings illustrated in detail in the Review. It is a view of the assembly hall at the University of Aarhus by Kay Fisker, C. F. Moller and Povl Stegman. The walls are patterned in brick for both decorative and acoustic purposes.

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Plan at St. been ning clude

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The PRESIDENT of the RIBA has written to CARDIFF CITY COUNCIL

the following letter protesting against the City Council's recent decision not to appoint a City Architect. See this week's leading

article.

SIR.—The South Wales Institute of Architects have brought to the notice of my tects have brought to the notice of my Council the fact that a deputation from them was recently received by the Public Works and Town Planning Committee of the Cardiff City Council. The purpose of the deputation was to represent to the Council the need for the appointment of a City Architect. My Council regret to learn that the Committee were unwilling to support the recommendation.

support the recommendation.

My Council have specially in mind the fact that almost all county boroughs in the United Kingdom have found it necessary, in the interest of the communities which they control, to appoint to their staffs salaried architects in full control of all building While many county boroughs have had such architects for a long time, others have recently found that the great pressure of work today resulting from housing, the provision of schools and other community buildings, has necessitated such an appoint-I understand that the present value of work for which the City Council of work for which the City Council has given approval is approximately £4,000,000. My Council are convinced that such an appointment by the City of Cardiff would be in the best interest of its citizens, who are known throughout Great Britain for their civic pride and who, therefore, should be given every opportunity to share with other cities the benefits to which they are entitled. Moreover, they are impressed by the fact that Cardiff is the capital city of a Principality, that it has a long tradition of fine architecture as represented by its magnificent Civic Centre, and that recent town planning legislation makes possible even greater advances in civic architecture.

May I request you to bring the considerations which I have set out to the attention of the City Council and to urge that they give the whole matter very careful reconsideration. Only by so doing can they secure to one of the leading cities of the United Kingdom that concentrated attention to every aspect of architecture that can be given only by an expert, in full charge of his own department and undistracted by the demands of other departmental duties.

Yours very truly. MICHAEL WATERHOUSE, President.

NEWS IN BRIEF

The Association of British Chambers of Commerce have issued a new publication called Development and Com-pensation: A Guide to the Town and Country Planning Act, 1947 [price 4s.] which is intended to be of practical use to those concerned with the development of land and other property.

Plans for a new South wing at St. Catherine's College, Cambridge, have been approved by the Town Council's plan-ning committee. Other plans approved in-clude those for alterations and extensions at Newnham, the women's college.

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Buildings for research work are to receive a larger share of building resources. This has been announced by Mr. Herbert Morrison, who said that the Government had made the decision in view of the importance of research in helping the country's economic recovery.

CARDIFF'S BACKWARD STEP

THE City of Cardiff has a good reputation architecturally, if for no other reason than that its Civic Centre is probably the best planned and the most impressive group of modern civic buildings in Britain. These buildings were, as it happens, designed by a private architect, but in a city of Cardiff's importance there is always a large quantity of work to be done by its own architectural staff, and the standard set by this work and the recognition given to it is bound strongly to influence the cultural standards achieved in the city generally. It is therefore doubly regrettable that the Cardiff City Council have recently pronounced their view that the proper place of architecture in the official

hierarchy is as a branch of municipal engineering.

The story is briefly this: for many years the city—like many other cities, unfortunately-relied for its architectural work on the City Engineer's Department, with an official holding the post of "Architectural Principal" actually in charge of the work, but responsible to the Engineer. As other cities took a more enlightened view and appointed City Architects responsible direct to their Councils, the suggestion was made that Cardiff should follow suit. But no move was made until Cardiff became in time the only city of its importance without a City Architect or its equivalent. Recently the "Architectural Principal" resigned. It may be that he realized that his post was destined to remain for an indefinite time that of an engineer's assistant—but this can only be conjectured. Whatever the reason, the need to make a new appointment was surely a suitable moment for initiating the change that had already taken place in progressive cities elsewhere. But instead of taking a step forward Cardiff took a step back. It was decided not to replace the "Architectural Principal" but instead to let the post lapse and recruit, as necessary, architectural staff of a more junior status to work under the City Engineer.

This decision naturally caused special concern in architectural quarters, and the South Wales Institute of Architects sent a deputation to the committee of the Council responsible, the Town Planning and Public Works Committee. Their plea was, however, rejected; and the rejection subsequently confirmed by the Cardiff City Council as a whole. that unsatisfactory state the matter rests, except that the President of the RIBA has now written to the Council* asking them to review the matter and giving some cogent

reasons why they should do so.

These reasons need no recapitulation here; for this is a bigger issue than simply who has charge of local jobs. A principle is at stake: whether the architectural advice required by an important city council should be given to them direct by someone whose whole attention is given to architecture or by someone to whom architecture is ancillary to other technical matters. In other words, whether architectural questions

^{*}His letter is printed on this page.

should or should not be considered at the highest, policy-making level. To say that they should is not to disparage Cardiff's City Engineer or any other City Engineer. City Engineers perform a most essential and responsible function and, in general, perform it very well. But they have a large variety of tasks, including in many localities the new one of administering the 1947 Town and Country Planning Act. We shall not get good city buildings if architecture is regarded as merely one of these tasks.

Cardiff has an immense building programme. It was recently calculated that there was architectural work to the value of four million pounds in the City Engineer's office, in addition to Cardiff's share of the national housing and school-building programme. That this work should be undertaken on the Council's behalf without a full-time architect advising them at the highest level does no credit to Cardiff which, as the capital of the Principality of Wales, should be setting a lead in civic enlightenment, not refusing to follow even the more backward of other British cities.



The Architects' Journal

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Phone: Whitshall of 11

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TOPIC

PAST, PRESIDENTS AND FUTURE

An impressive assembly of Past Presidents — "like governors on a steam-engine," said Mr. Howard Robertson, "we are there to reduce the revolutions" — gathered at the AA last week to hear the 101st President, Mr. Enthoven, give his inaugural address. As was to be expected, this proved to be quite admirable — a concise, lucid and tensely-knit survey of the problems which today face student, architect and client

modesty and charm. Mr. Enthoven's style encourages what in music-hall language is called "the slow burn" and those who were lulled by the mild eye, the tentative voice, the gracefully turned phrase into thinking that this was just another piece of polished Presidential prose must have found the prick of penetrating comment all the sharper when it came. A good evening, to which the presentation of a James Hogan goblet to the retiring (and surprised) President (Howard Robertson) made a pleasant introduction.

alike, delivered with characteristic

RDI EXHIBITION

Speaking to an assembly of frock-Burlington House Berties coated through fretwork-faced loudspeakers (not designed, I suspect, by an RDI) H.R.H. The Duchess of Kent last week opened the "Design at Work" Exhibition at Burlington House. The Duchess recalled how closely connected was the occasion with one exactly a century ago when the same organisers (the Society of Arts) arranged under Royal Patronage an Industrial Art Exhibition designed as a curtain-raiser to the Great Exhibition of 1851. (The exhibits at the predecessor incidentally included a cast-iron stag, an earthenware garden bench by A. W. Pugin, a glass bust of Prince Albert and a patent bedventilator).

The present show has similar intentions towards the 1951 Exhibition, and despite the untutored snarkiness of certain newspapers it is an admirable show reflecting great credit on all concerned.

Milner Gray and his colleagues have made a good workmanlike job of the layout (see A.J., October 21), ensuring that the exhibits are not swamped by showmanship and that there is plenty of room to move around, while the exhibits themselves are well chosen and instructively displayed. Here you will find such assorted products as Robert Goodden's Sword of Honour, R. D. Russell's school furniture and television set, a de Havilland aircraft, and the Wells Coates Ekco Radio set. This last is followed through all its stages from first sketch and prototype to finished product, the process being illustrated by photographs from which you will note with relief that while the radio undergoes considerable modification during this period, no changes in Mr. Wells Coates can be remarked.

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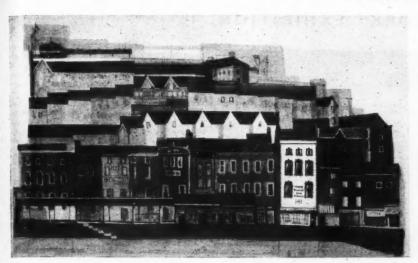
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DANISH TREASURE

Another example of good display for those who are satiated by exhibition technique is the Danish Art Exhibition at the Victoria and Albert Museum. There the presentation is so inconspicuously and gently done that one is hardly aware of it. The large rooms of the museum have been subdivided by tubular steel frames, bamboo and white cloth into a series of marquees the sizes of which are determined by the scale and number of the exhibits. Kaare Klint, the architect, had, of course, an advantage over many unfortunate exhibition designers who have such intractable material as nuts and bolts and beauty cream to display, in that the obects to be shown are in themselves both beautiful and interesting. There is little monumental or really magnificent but everything is as perfect and admirable in a quiet way as is to be expected from so charming a race.

Besides the modern furniture, illustrated elsewhere in the JOURNAL, there are examples of contemporary Danish silver and porcelain, and a large section



The annual exhibition of members' sketches at the AA will be on view until November 19: Above, one of the exhibits: a sketch of Brixham by Ian Baker.

devoted to painting and sculpture. Those not completely engrossed in the modern movement, will enjoy equally the fourteen rooms that precede the modern section. First, because the growth and continuity of the tradition of good design, right up to the twentieth century, can be readily observed, and, secondly, because it is extremely unlikely that these art treasures will ever again be re-assembled under one roof, for the exhibits have been lent from a hundred different sourcesfrom the King of Denmark, from museums in Copenhagen, Oslo, Stockholm and London, from cathedrals, churches, and a host of private collections, and the difficulty and responsibility of collecting such irreplaceable treasures are enormous.

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After Astragal had admired the exhibits he was led to the buffet; there, with the lavish hospitality so typical of the Danes, was a table loaded with smörgesbrod, specially flown from Denmark, beer and schnapps, of course, and, to remind readers of prewar times, a choice of chicken, ham, eggs, prawns, liver, bacon. Shall I go on? Pork, cheese, lobster, pastry, mushrooms and beef.

TINKER, TAYLOR, ARCHITECT

The collectors of verbal descriptions of our art and our profession may be interested in the definition of an architect put forward by Walter Taylor, Director of Education and Research for the American Institute of Architects. "An architect," he said, in his speech at a recent architects' conference in the Central States, "is a technologist who specializes in the human aspect of the shelter or planning problem. He is the quarter-back of the building team."

As the only knowledge of American football I possess is gained from American films, and the only football film I remember vividly is that in which Groucho Marx was the quarter-backor was it Harpo in his chariot?-I can't tell whether this definition is a good one or not. However, quarter-back and architect obviously have the same need of such qualities as speed in manœuvring, ability to receive and hand out rough treatment, skill in sidestepping and swiftness in escape, and if the quarterback has any advantage over us, it is perhaps that he is better armoured for the part at the time and gets a bit more attention from the girls afterwards. And if you object that every quarter-back is expected to marry the coach's daughter, may I remind you that some of us have even achieved that and had plenty of practice since, as a result.

LARGER HOUSES

Those of you who felt inclined to throw your hats in the air over the recent announcement of an increase in the maximum permitted floor area for privately-built dwellings to 1,500 square feet and more flexibility in the ceiling price will by now be sadder and wiser men and women.

The catch in this generous gesture of hope to architects was not evident from the press notices. The memorandum from the MOH to local authorities, however, suggested that only in exceptional cases of very large families will the maximum floor area be allowed. Many hopeful architects have now had their proposals rejected as the prospective owner had omitted to provide himself with eight children. The absolute discretion of local authorities in increasing the ceiling price has in general been exercised in maintaining the status quo. I have heard, however, of one surveyor who has agreed that 33s. per square foot is a not unreasonable sum. authorities, however, do not seem to have read the report on the cost of dwellings, or they think that private development should be built more cheaply than public housing.

No, it looks as though there is still a waiting period before you can get a licence to build that £2,000 house of 1,500 square feet.

RE-HOEING THE HEATHROW

Gruesome memories of Airways House, Victoria, and Croydon Aerodrome trapped me on this page recently into pessimistic speculation as to the future appearance of our new airport buildings at Heathrow and Northolt. I am reminded, however, that all should be well so far as the former is concerned at any rate, for after the Gibberd wash and brush up for 1951, we can look forward to a "grande toilette" competitively organised by Graham Dawbarn on behalf of the Ministry of Civil Aviation. Here's something nice to look forward to now, and down on when it comes.

ASTRAGAL

LETTERS

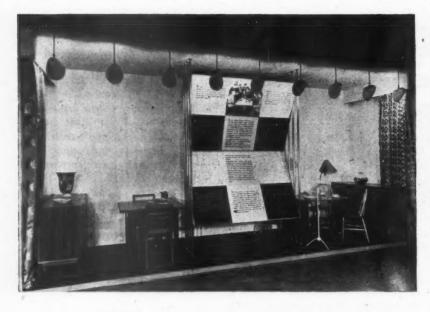
Donald Monson

Garden Cities

SIR.—As an American planner and architect, I went to see both Letchworth and Welwyn, and wonder how I could have such a different view of these two towns from that expressed in Astragal's notes in the JOURNAL for October 14.

First, Letchworth and Welwyn are not of

THE "DESIGN AT WORK" EXHIBITION







A preview of the "Design at Work" Exhibition at Burlington House, which opened last week, was given in the JOURNAL for October 21. The exhibition shows for the first time the work of members of the Faculty of Royal Designers for Industry created in 1936, and its layout and motif is intended to show the processes that good design entails and how the designer's mind works. The importance of teamwork between designer, manufacturer and consumer is emphasized. In the JOURNAL's preview, the stands in the exhibition were illustrated as projects; the photographs on this page show some of them as they are now that the exhibition has opened. Top, the display of utility furniture with utility fabric hangings; above a display feature showing designs for Wedgewood china and the Wedgewood factory; left, centre piece for the De Havilland 108, designed by James-Gardner. The designer-in-chief for the whole exhibition was Milner Gray, of Design Research Unit. It continues until November 28.

the same parent except that they have carried out Howard's principles of a town having both industry and dwellings, a town centre and a green belt, but where Welwyn is in the Georgian spirit and the estate office has exercised continuous and rather detailed control of all building, Letchworth's office has exercised a consciously negative control, permitting the owner to build his home, store or factory according to his own personal choice as long as what we in the United States would call general zoning regulations were observed. Furthermore, Letchworth Estate Office has left the citizen strictly alone, so that we found no "self-conscious artiness" there. But there is an urban form; for instance, the business street of Letchworth is a typically English market street, The shops are different, but related so that the street has an urban charm which is all the more remarkable for having been built during the time when so few business streets of any merit at all were laid out.

Welwyn, on the other hand, to the overseas visitor presents a town permeated throughout by concepts of architectural form. It is to the credit of the builders of Welwyn that, with a low density, urban character has been achieved not by archæological copying of the Georgian squares of the 18th century English scene, but by building within the spirit of Georgian urbanism. To say that the closes and streets of Welwyn do not have urban form is to misunderstand the needs of this century. One cannot copy the balance and layout of the Georgian upper class town house today. The problem fac-ing the architect now is to put architectural form into houses for the average man, to lift council housing to the architectural spirit of the upper class terraces of the Georgian and Regency periods. This has been done in Welwyn. The gardens of the Georgian squares are in the courts formed by the culde-sacs. The plans are adapted to a servantless house and a series of such house groups have in turn been grouped into neighbour-hoods having architectural unity.

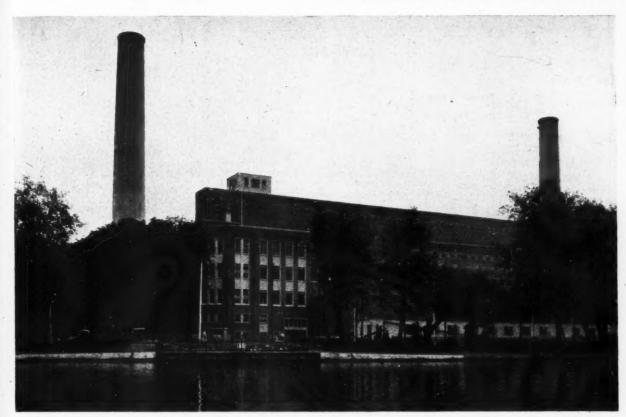
The gardens of the two existing new towns are wholly within the English tradition of town building—who could conceive a Bedford Square without its park? The overseas visitor cannot understand how anyone can say the English people do not want the openness of the two garden cities. The large number of terrace houses in the south of England built between the two great war periods bear testimony to the English desire for a house with a garden. Doubtless in recognition of this obvious fact, Sir Patrick Abercrombie deplored, at the TCPA dinner, the necessity of using an excessive number of tall apartments in the rebuilding of London.

Bele

It is a continuous source of amazement to me that the builders of the first two new towns are without honour in their own country, that the designers of their successors are not more concerned with studying them. Rather than asking that Welwyn and Letchworth be overlooked, would it not be better to use their experience to make the forthcoming new towns even better?

DONALD MONSON, City Planning Office, Detroit

[Astragal replies: "I agree that there is a difference between Letchworth and Welwyn. It was chiefly Welwyn I had in mind when I warned against our existing garden cities being held out to the future occupants of the New Towns as a pattern of the environment being planned for them. I am in favour of giving honour to the builders of Letchworth and Welwyn, but not in favour of imitating their faults as well as their virtues, so I agree wholeheartedly with the last few words of Mr. Monson's letter. He misses the point when he refers to the English desire for a house with a garden, because the provision of a garden is not in any way incompatible with a higher density than Welwyn and a more truly urban character."



From the north-west.

POWER STATION AT KINGSTON

CONSULTING ENGINEERS: PREECE, CARDEW & RIDER

Below, the turbine room.

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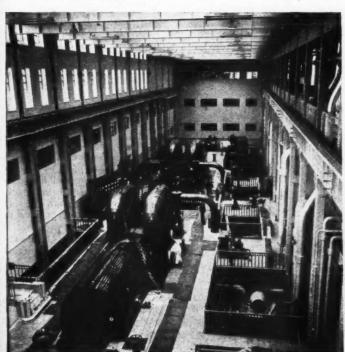
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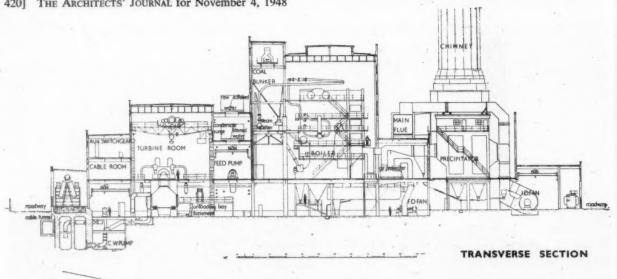
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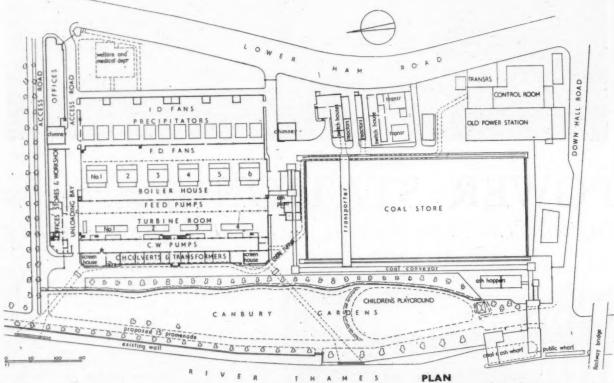
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The new power station at Kingstonon-Thames, opened by the King on October 27, is the first of twentyfive new stations comprised in the British Electricity Authority's expansion programmes covering the period up till the winter 1952. In the construction of the new station, which occupies an 8-acre site on the east bank of the Thames, near Kingston Bridge, care has been taken to preserve the existing riverside amenities, in particular the trees in the public gardens between the power station and the river towpath. It ha also been the aim of the designers to eliminate, as far as possible, chimney grit and dust, and the noise commonly associated with coaling operations and boiler plant. Among the precautions taken are the complete enclosure of all coal and ash handling plant and the installation of grit arresting and smoke abatement devices. The flat roof of the auxiliary switchgear rooms are paved and walled to form an open-air terrace 110 yards long overlooking the river.

About 5,000 tons of steel were used in constructing the main buildings.

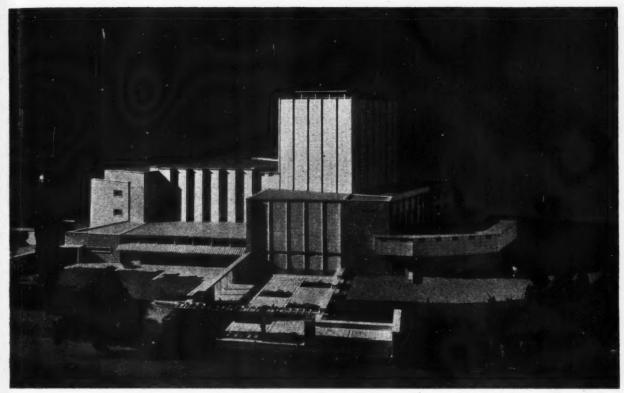






The two reinforced concrete chimneys are 250 ft. high and 18 ft. internal diameter at the top, but the steel reinforcement is such that the concrete shell of each chimney, apart from the internal fire-brick lining, is less than 9 in. thick. Hand-made multi-coloured facing bricks are used throughout, with stone-work plinths and dressings. The consulting engineers for design and supervision of the construction of the power station were Preece, Cardew and Rider, who retained the services of Coode, Vaughan-Lee, Frank and Gwyther in connection with the civil engineering works. For sub-contractors see page 432.

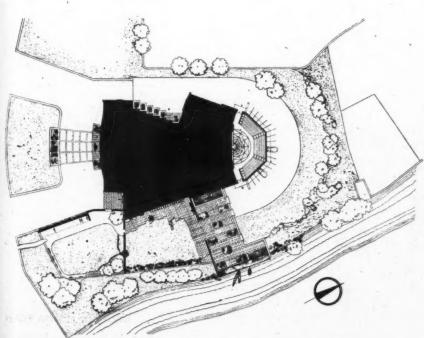
R STATION KINGSTON A



From the east

THEATRE FOR OXFORD UNIVERSITY

DESIGNED BY FREDERICK GIBBERD



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SITE PLAN

GENERAL.—The building was designed to implement the recommendations of the Oxford Drama Commission whose report was published last week. It has an adjustable stage permitting Greek, Elizabethan, Restoration, Georgian, Victorian, and Modern productions [see last week's JOURNAL.] Films can also be shown and the theatre used for concerts or lectures. There is a separate open-air theatre with 'two stages and stepped seating.

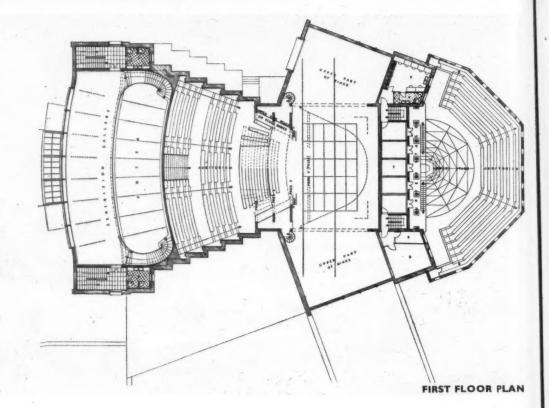
PLAN.-The chief elements of the design are as follows: The Main Entrance Block. A threestorey block at the entrance front of the building. On the ground floor the main entrance lobby, in which is situated the pay box, leads into the foyer, opening off which are the cloak-rooms and layatories. The foyer extends under the raked auditorium floor for the full two-storey height (see section) and an exhibition gallery over the entrance lobby is open to form an extension of it. The second and third floors provide class-rooms, projection room and cutting theatre. The Auditorium.

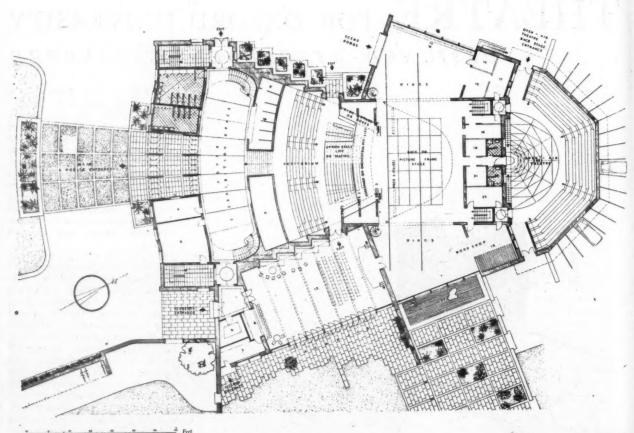
Key to first floor plan:

- F. Lavatory. 2 M. Lavatory.
- 3 Spare Dressing-room.
- " Lavatory.
- 5 Sewing Room.
- 6 Wardrobe Room.
 7 Actors' Assembly room or Green room.

Key to ground floor plan:

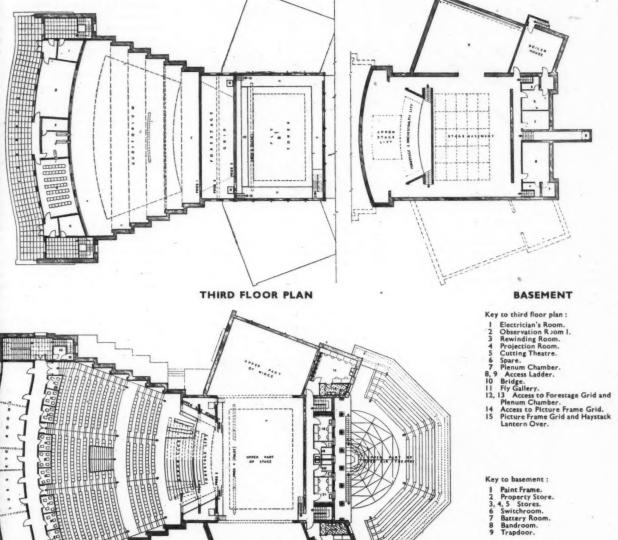
- F. Lavatory and Powder Room. 2 M. Lavatory.
- Paybox.
- Office.
- Reader.
- Students' Cloaks' Roof Light Over. 6
- 7 Kitchenette.
- 8 Snack Bar. 9
- Store. 10 Cloaks.
- Storage Space.
- Reading, Rehearsal, Exhibition, Lecture, etc., Room.
- 13 Paint Frame.
- 14 Paint Store.
- 15, 16 Scene Dock.
- Stage Manager and Box Office. 17
- 18 Stage Props.
- 19 Stage Wardrobe.
- 20 F. Lavatory.
- 21 Quick Change Room
- 22 M. Lavatory.
- 23 Electrician.
- 24 Pond (future extension).
- 25 Trapdoor.





GROUND FLOOR PLAN

D



Key to second floor plan :

- Key to second moor plan:

 1 to 9 Boxes

 10, 11 Cleaner's Cuoboard,

 12, 13 Store.

 14 F. Chorus Dressing Room.

 15 F. Chorus Lavatory.

 16 M. Chorus

 17 M. Chorus Dressing Room.

 18 F. Stars

 19 F. Stars Bathroom and Lavatory

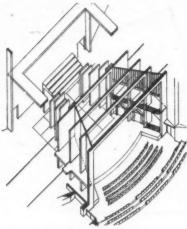
 20 M. Stars

SECOND FLOOR PLAN

A modified fan-shaped structure with stepped parallel sides seating a maximum of 687, has a curved back wall in which are set boxes, and a steeply raked floor. There is no fixed proscenium arch, the fourth wall being a "fluid" structure. Proscenium Structure. A series of arches under which are stage lifts which can be raised or lowered to form different kinds of stages, and may be used for

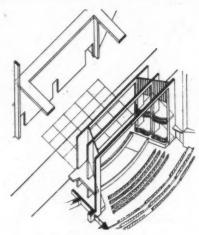
seating the audience in different ways, or may provide a sunk orchestral pit. Two floor levels are provided between the arches on each side of the building which may form side stages, boxes, stage doors, or be shut off to form part of the auditorium. Back Stage. The normal type of back stage with provisions for moving scenery off stage vertically into a fly tower, or horizontally into wings

on both sides of the stage. Scene docks and spaces for workshops are provided in the wings. Back Stage Rooms. A three-storey structure behind the stage with rooms opening off stage, such as quick-change and electrician's rooms, with green room, dressingand property rooms on the floors above. Small Hall. A small hall along one side of the auditorium, uniting the stage, foyer, and



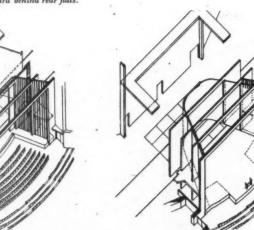
RESTORATION STAGE

Apron stage lowered and seating placed on it. Forestage raised. Fourth Proscenium Arch placed in position making a deep forestage. Side shutters raised. Two proscenium doors and one box front inserted on ground floor and three box fronts on first floor. Gallery for Orchestra behind rear flats.



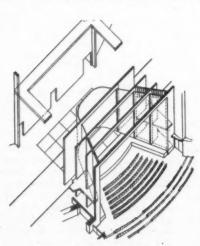
VICTORIAN STAGE

Apron stage lowered and seating placed on it. Forestage lowered to form Orchestral Pit. Side shutters raised and box fronts inserted at both levels. Fly tower and side wings operate in normal manner,



CONCERT HALL

Apron and Forestage raised. Portable staging placed between side stage and apron. Side screens lowered. Fourth Proscenium Arch lowered and plywood reflector placed in opening.



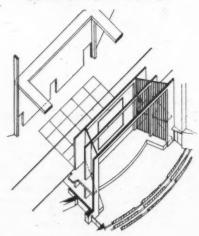
MODERN DRAWING ROOM STAGE

Apron and Forestage lowered and seating placed on it. Side screens lowered. Cyclorama unwound.

FlyTower and side wings operate in normal manner.

LECTURE THEATRE

Mpron stage lowered and seating placed on it. Forestage raised. Fourth Proscenium Arch lowered and curtain or plywood reflector placed over opening.



PICTURE THEATRE

Apron stage lowered. Forestage raised. Side shutters lowered. Film screen hung behind curtain of Third Proscenium Arch.

auditorium, to serve the joint purpose of lounge, reading-room, or rehearsal room. It may also serve as an extension of the foyer, as a refreshment room, or as additional exhibition space. Operair Theatre. The rear elevation of the fly tower and back stage rooms have been designed to provide a scena stabile for an openair theatre. This is in Graeco-Roman form with stepped seating round a semicircular stage.

ELEVATIONAL TREATMENT. -The building would be faced with stone of two distinct types to obtain contrast in form, colour, and texture. The two suggested types are roughly dressed Bladon stones of random sizes laid to rough courses with stone dressings; and plain dressed reconstructed stone slabs, of a lighter tone than the Bladon stone, laid with straight joints to express that it is a veneer. These two types of wall finish are placed in juxtaposition to heighten the contrast and prevent the building looking too massive and solid. The stone slabs are used for the large areas as, being obviously a veneer, they are more expressive of a framed structure than the rubble walls.

In order to give the design unity the building was planned to multiples of a unit dimension which finds expression in the elevations. This unit dimension was decided on plan by the depth of the stepped auditorium seating. Each set back of the splayed auditorium wall occurs at every third auditorium riser. The three rows of seating are expressed in the side elevation as each stepped wall is divided into three stone slabs. This gave a length for the individual stone slabs of which the building is faced. The height of the stones was determined by a good proportion and a convenient size for handling.

The entrance façade is faced with stone slabs, the joints of which are repeated in the other elements such as window mullions, and give a pattern over the whole surface. The large windows required to light the exhibition gallery and foyer are projected in front of the main façade and designed generally as the dominant element. Looking up at the windows one would see the foyer ceiling and structural columns, thereby obtaining a sense of the volume of the building.

The fly tower is faced with ashlar slabs and vertical stone ribs are introduced at every third joint so that the form of the tower is lightened in appearance, and to

THEATRE FOR OXFORD UNIVERSITY:

FCTURE FAMILY STATE

LONGITUDINAL SECTION

repeat the width of the auditorium buttresses thus helping the unity of the design. The section of the ribs would be a semi-ellipse to give a soft shadow, but the ribs at the corners of the building are of square section to give definition to the main form. The vertical treatment of the tower is resolved at the top by a deeply projecting roof slab over the haystack lantern. The front façades of the two wings repeat the treatment of the tower. The elevation facing the open-air theatre serves as a scena stabile, and in consequence a slight theatricality is introduced by a Classic Order set in front of the main façade of the building. The Ionic Order after Batty Langley was taken for the design, but mouldings are set out at an angle of 521 deg., giving a more subtle contour than that used by Langley. The order would be built of reconstructed stone faced with white stucco; and the podium of very rough faced granite laid to regular courses.

CONSTRUCTION AND EQUIP-MENT.—The building would be of fireproof construction. Materials generally would be chosen for their resistance to the weather and to wear, thereby keeping maintenance charges down to a minimum. The main auditorium block would be of welded steel-construction with reinforced concrete floors and roof, and brick walls and partitions. Solid concrete load-bearing walls would be used for the lower portions of the building.

The boiler house situated in the basement would be equipped with oil-fired hot-water circulating boilers, and domestic het water supply boiler. The plenum chamber in the roof space would be equipped with centrifugal intake fan and motor, washer plant, circulating pumps, and pre-heater. The extract chamber, also situated in the roof space, would be equipped with a centrifugal fan with separate extracts over the auditorium and the stage. The stage lighting would be controlled by dual panels so that the lighting can be operated either from the stage or from a special control box adjacent to the rewind room at the back of the auditorium, where the operator has a view of the show in operation.

Below, from the south

Root Terrace.
Projection Room.
Class, etc., Rooms.
Corridor.
Box.
Plenum Chamber.
Access to Roof.
Access to Picture
Frame.
Adjustable Bridge.
Fly Gallery
Truck Rails.
Star Dressing Room.
Actors' Assembly
Room.
Back Stage Rooms.
Upper Stage.

Back Stage Rooms. Upper Stage. Lower Stage. Trap Door. Access to Open Air Theatre. Stage Basement. Access Platform to Orchestra. Life and Orchestral Pit. Apron Stage Life.

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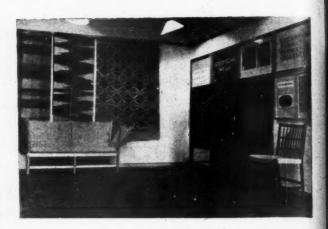
21



DESIGNED BY FREDERICK GIBBERD



Above, armchair, and sideboard with hot plate, both designed by Fenn Juhl and made by Nils Vodder. The lamp is by Professor K. Klint, and the rug by Lis Ahlmann. Top right, a corner of the exhibition showing the informal layout; right, writing table by Ole Wanscher, made by A. J. Iversen. The chair is also by Ole Wanscher and was made by Jacob Kleer.





DANISH ART EXHIBITION AT THE VICTORIA & ALBERT MUSEUM





The exhibition of Danish Art Treasures through the ages was opened last week by the King of Denmark. Some exhibits were illustrated in the JOURNAL for October 28, and more photographs of modern work are shown on this page, with the exception of the silver (1938-39) all the work shown is post war.

Above left, lamp, with shade by Professor Klint; above right, silver water jug, designed by Eric Herlow, made by A. Michelsen, and a silver teapot designed by Magnus Stephensen, made by Kay Bojesen; right, silver teapot with side-hinged lid, designed and made by Kay Bojesen. Extreme right, a rosewood cupboard for silver, designed by Rigmor Andersen and made by Rudolf Kasmussen.

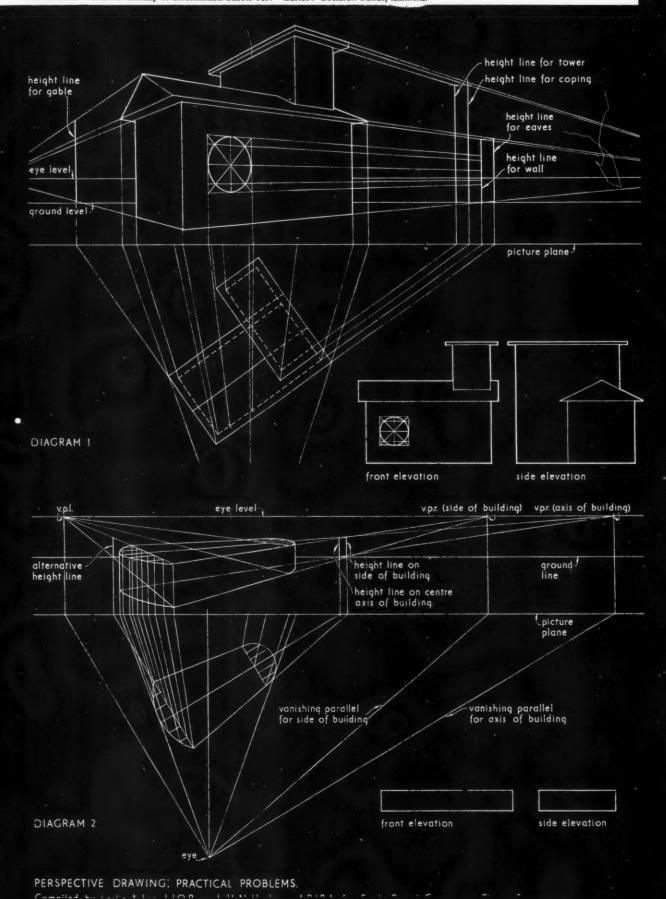








The Architects' Journal Library of Information Sheets 115. Editor: Cotterell Butler, A.R.I.B.A.



1.B31 PERSPECTIVE DRAWING: PRACTICAL PROBLEMS

This Sheet, one of the series on draughtsmanship, deals with the theory of perspective and illustrates typical examples following the principles set out on previous Sheets and covering those points which may give rise to some difficulty.

Use of a Number of Height Lines

Diagram 1 shows a simple rectangular building with a gable ended pitched roof intersected by a tower. It should be noted that separate height lines are used for obtaining the heights of the gable, tower and eaves as a height line only gives the setting out for those elements of the building which fall on the plane from which it has been obtained.

Alternatives sometimes used to reduce the number of height lines are:

(a) to draw on the perspective a section through the building to show the projections required.

(b) to draw lines following round the wall faces from another height line already used.

Where a roof projects over all the wall faces it should be remembered that at the extremities a short length of the soffit of the eaves will be seen carrying on behind the angle of the building as the roof projects beyond the hidden faces at the rear.

Curves on Elevation

On previous Sheets rectangular forms only have been considered. When curved shapes such as arch forms, circular openings, clock faces, curved roofs, etc., occur on elevations they have to be plotted by locating a series of points on the curve.

The method of drawing a curve which occurs on a vertical plane whether it is a circle, ellipse, parabola, etc. or a part thereof is to relate chosen points on the curve to a rectangle by drawing horizontal and vertical lines from each point to the sides of this rectangle or alternatively by the method illustrated in diagram 1. In this case with a circular opening on the face of the building, eight points on the curve, obtained by drawing the axes and diagonals of an enclosing square, are related to one side of the square by horizontal lines. This is set up in perspective giving a series of points through which the curve will pass.

Curves on Plan

Curves on plan may be set up in the manner just described for curves on elevation or the following method may be used which is also applicable to curves on elevation.

Diagram 2 illustrates a fan shaped building terminating in a segment at each end. From the chords of the segments offset lines are taken to locate chosen points on the curved surfaces. These set up in perspective locate the position of points on the curve.

Non-Rectangular Plans

Plan forms which are not rectangular may be set up in perspective from a suitable straight line or lines such as axes by measuring from them offsets to salient points of the irregular shape.

Diagram 2 illustrates the setting up of the fan shape from a central axis by means of offsets which are also the chords of the segments from which the ends are composed.

If much detail is to be drawn on the side of the fan shape a vanishing point for that plane may easily be obtained by drawing from the eye point a line (known as a vanishing parallel) parallel to the side of the fan to cut the picture plane. This point projected up on to the eye level line of the perspective view will give a vanishing point for all horizontal lines on the side of the building.

This Series of Sheets covers geometrical drawing, orthographic, isometric and axonometric projections, perspective, rendering, lettering and draughtsmanship generally.

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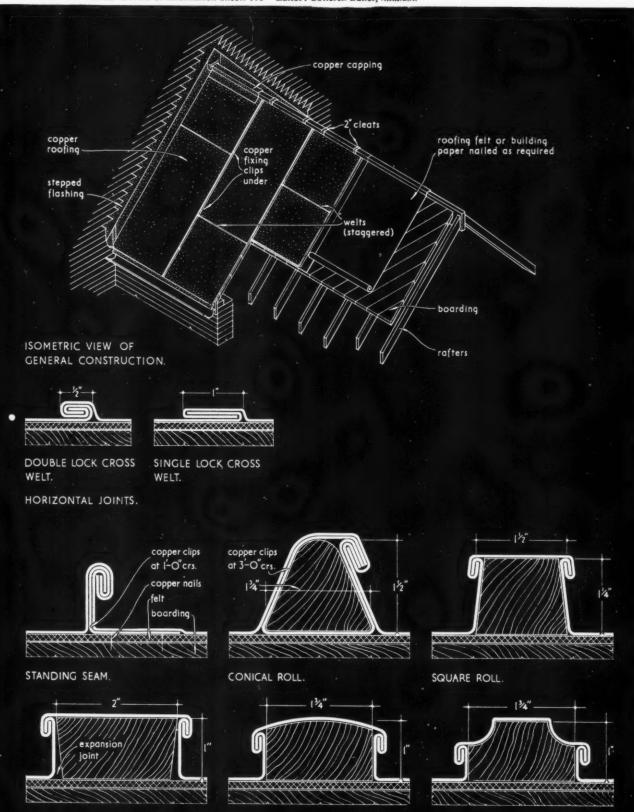


UNDERCUT.

VERTICAL JOINTS.

COPPER | APPLICATIONS

The Architects' Journal Library of Information Sheets 116 Editor: Cotterell Butler, A.R.J.B.A.



ROUND TOP ROLL.

ORNAMENTAL ROLL.

10.E1 CONSTRUCTION OF TRADITIONAL COPPER ROOFING

This Sheet is the first of a group describing traditional methods of copper roofing. It sets out the general design and construction and illustrates the accepted types of roll, seam and welt. Further details, such as stop-ends, flashings, etc. and the correct laying sequence are described on Sheet 10.E2.

Copper roofs do not need painting or other protection against corrosion. When exposed to the atmosphere, the metal begins to darken according to the amount and nature of the impurities deposited on its surface. This oxidising process is the first step in the formation of a natural protective patina which slowly develops during a period of from ten to twenty years into a highly protective pale green covering composed predominantly of a basic sulphate of copper.

Type and weight: The type of copper sheet normally used is hot-rolled, and it is important that only the softest available tempers should be used. If coldrolled sheet is used it should be of annealed temper. Manipulation during laying and vibration in the building tend to harden the metal, and use of the softer tempers allows for this hardening to take place. The following table gives the weight, gauge and covering capacity of suitable sheets.

Gauge	Weight per sq. ft.	Gross covering capacity per lb. 0-978 sq. ft.		
24 S.W.G	16 oz.			
23 S.W.G.	19 oz.	0·896 sq. ft.		

Construction Generally

Pltch: The minimum fall for copper covered roofs is 2 in. in 10 ft. The actual steepness of the pitch is immaterial, as copper has a high elasticity and may safely be applied to vertical surfaces without fear of creep. The expansion factor cannot be disregarded entirely, however, and the design of the joints should be such that slight movement is permitted.

Copper sheets: Both 23 and 24 gauge hot-rolled sheets are obtainable in any length up to 12 ft., but the basic price is the cost per pound for sheets of an area not exceeding 14 sq. ft. (e.g., 5 ft. 3 in. by 2 ft. 8 in. or 4 ft. by 3 ft. 6 in.) and of thickness of not less than 24 S.W.G.: copper sheet less than 15 in. wide is known as strip, and is priced differently. These limits have been evolved to suit the most satisfactory use of traditional copper work, and automatically restrict the spacing of horizontal and vertical joints. The material itself may be used in larger sizes, but in these cases special precautions must be taken for avoiding the effects of expansion and wind lift.

Felt or building paper: The most suitable felt for use as an underlay both on timber and concrete structures is type 2B impregnated flax felt (brown) generally known as inodorous felt No. 1, 50 lb. per roll, butt jointed and fixed by copper nailing.

Horizontal joints: Two types of horizontal welted joint are practicable. The double lock cross welt and the single lock welt. The single lock welt should only be used on vertical or sloping work. Where the roof has a pitch of less than 15°, drips 2½ in. deep should be made at intervals of 10 ft. maximum.

Vertical joints: There are two accepted methods of making the vertical joints—the standing seam method and the wood roll. The standing seam is generally considered suitable for roofs of any considerable pitch and flat roofs not subject to traffic, and is in the form of a double-lock welt left standing proud of the general surface of the roof. It requires approximately 2 in. of the two adjoining sheets for its formation. The wood roll system is recommended on flat or nearly flat roofs where traffic is to be expected. The conical shaped roll is the most common and requires 5 in. of the two adjoining copper sheets for its formation. It is finished with a welt slightly on one side of the apex.

Both systems are designed to give adequate water-lock and to provide expansion joints for the movements of the copper under temperature changes. The manufacturer generally uses brass countersunk screws for fixing vertical wood rolls, but it is important that if any iron nails are used they should be well punched to avoid the possibility of electrolytic action between the copper and the iron. For this reason, also, the nails used for attaching the cut copper clips to the boarding should always be of copper (11 in. long, parallel-sided type being recommended) with the usual flat, unshouldered head. The copper clips in conjunction with the welt of the vertical joint are the means by which the sheeting is attached to the roof. They are usually \frac{1}{2} in. wide by the length demanded by the particular type of vertical joint used. For the standing seam joint they should be spaced not more than 12 in. centres and for any type of wood roll, not more than 3 ft. apart.

Timber roofs: These should be \frac{1}{4} in. or 1 in. close boarded and the copper should be laid over an undercoating of felt or paper.

Concrete roofs: Ballast concrete flat roofs should be screeded to falls and covered with roofing felt. The surface of breeze concrete should be given a coat of asphalt paint if not screeded with cement. Provision for the fixing of the wood rolls may take the form of proprietary fixing plugs let into the concrete and set in cement, or wood fixing blocks or battens for nails or screws. When the standing seam method of jointing is used, the copper clips may be spaded and grouted with cement in holes prepared in the concrete at 12 in. centres.

The manufacturers also supply and fix zinc roofing to B.S. 849: 1939. For full details see 10.J1, 10.J2 and subsequent Sheets.

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

TECHNICAL SECTION

SAVING STEEL

The new codes* on the structural use of steel in building† and the revised editions of BS 15[‡] and, on loading, BS 449[§] establish a significant advance in structural engineering. For the first time a minimum yield point for mild steel is specified and this requirement, combined with a greater knowledge of the behaviour of structures, obtained from experience and research, allows a substantial increase in permissible stresses; an increase which has been fully accepted in these documents. The new code for reinforced concrete|| has also introduced some increases in permissible steel stresses as compared with earlier codes, although its recommendations still do not take into account the results of recent research as fully as they should.

The economy of steel, made possible by adoption of the new codes and standards, can only be realized in practice if local authorities accept them. This will be by no means automatic, for under normal circumstances it could take many years for the various local byelaws to be revised accordingly. In the past, local authorities were usually concerned with enforcing their byelaws, quite irrespective of the fact that technical progress might have rendered them obsolete. Thus, in many cases, structures had to be designed for imaginary live loads that could never occur during their lifetime and lower permissible stresses were adopted than would have been reasonable from the point of view of safety.

In view of "the present need to exercise the utmost economy in the use of steel," the MOH has recently issued a circular (No. 157/48) to all local authorities in England and Wales and the MOW a press notice (No. 113/48) drawing the attention of everybody concerned with structural design to the possibility of saving steel as against previous requirements.

As from the 1st October, the MOW, before issuing a licence for buildings involving the use of more than 25 tons of steel, will require a certificate from the responsible consultant to the effect that the building has been designed to take full advantage of the increased stresses and other weight saving clauses of the new codes and standards. It remains for local government officials, architects, structural engineers, designers and draughtsmen to familiarize themselves with these improved tools of their trade, and to use them. All interested in achieving effective economics in steel might usefully put to themselves three critical questions whenever contemplating the erection of a structure of studying a design, namely:

1. Need steel be used at all?

2. Can the general arrangement be modified so as to use less steel?

3. Is every member and detail essential, and is it so designed as to be stressed as nearly as possible to the new permissible limits in all its parts and not merely at the critical section?

This will involve a completely new departure from the previous practice of local authorities and an entirely new approach to the problem of building control. It is no longer enough merely to comply with byelaws; every effort must now be made to use the steel in the most efficient way.

This JOURNAL has repeatedly emphasized the importance of saving steel and criticized the waste caused by out-of-date byelaws and codes. It is to be hoped that the combined effort of the two Ministries mainly responsible for building will be successful and the waste of steel in buildings avoided in the future.

CP 4: 1948, Chapter V. Loading (Inf. Centre No. 1776: 1.2.46).
 CP 113: 1948 (Inf. Centre No. 17.34).
 BS 15: 1948 (Inf. Centre No. 12.24).

[§] BS 449: 1948 (Inf. Centre No. 17.39). || CP 114: 1948 (Inf. Centre No. 17.30).

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

INFORMATION CENTRE

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

2.60 planning: general 1947 ACT, EXPL. MEMORANDUM

Town and Country Planning Act, 1947: Explanatory Memorandum, Part II: Notes on Sections. Ministry of Town and Country Planning. (HMSO, 1948. 2s.)

Important official document providing detailed commentary on each Section of Town and Country Planning Act, 1947. Comprehensive subject index.

The first part of this memorandum (see 2.27:19.2.48) gave a broad analysis of the Act as a whole. The object of this second part is to provide a general description of each section.

Sections 1-4 (Part I of the Act) deal with central and local administration and cover the functions of the Central Land Board

and the local planning authorities.

Sections 5-11 (Part II) are concerned with development plans (see 2.57:14.10.48) and give guidance on surveys of planning areas (see 2.43:29.7.48); on preparation and amendments of development plans; on the Minister's additional powers with respect to such plans; on the incorporation in development plans of Orders relating to trunk roads and new towns; on modifications in relation to land designated as subject to compulsory acquisition; on supplementary provisions: and finally on the validity and date of operation of these plans.

Sections 12-36 (Part III) relate to the control of development. They deal with the following aspects:—the obligation to obtain remission for development and the procedure in connection therewith (see 2.45: 5.8.48 and 2.51: 16.9.48); the purchase of land by the local authority on refusal of permission in certain cases; the compensation for refusal of permission in certain cases; the representation and modifications of cases; the revocation and modification of permission to develop; the enforcement of planning control; the powers relating to authorised uses of land (see 2.39; 2.40; 2.41 and 2.42: 8.7.48); the preservation of trees and woodlands (see 2.53: 16.9.48) and of buildings of special architectural or historic interest; the control of advertisements: the power to require the proper maintenance of waste land; the delegation of functions to county district councils; and temporary provisions pending approvals of development plans.

Sections 37-49 (Part IV) cover the compulsory acquisition of land for development; power to acquire buildings of special architectural or historic interest; the power of local authorities to appropriate certain land for planning purposes; the acquisition of land by the Central Land Board, and by development corporations under the New Towns Act, 1946. They also deal with aspects of road construction and with the

power to stop up and divert highways.

Sections 50-57 (Part V) are concerned with amendments of law relating to compensaamendments of law relating to compensa-tion on compulsory acquisition of land, while Sections 58-68 (Part VI) provide for payments out of central funds in respect of depreciation of land values (see 2.44: 29.7.48) and Sections 69-74 (Part VII) for the determination and payment of develop-

ment charges by the Central Land Board.

Sections 75-92 (Part VIII) deal with the application of the Act to special cases including existing development contravening previous planning control; development authounder Interim Development Orders after July 21, 1943; land ripe for development; mineral workings; land acquired by local authorities and development corporations for comprehensive development or redevelopment; operational land of statutory undertakings; land held on charitable trusts; land subject to claims for betterment under other Acts; crown land; and land in process of compulsory acquisition.

Sections 93-99 (Part IX) concern the finances of local authorities, i.e., Exchequer grants in respect of the acquisition and clearance of land in redevelopment areas and in respect of certain compensation paid by planning authorities before the appointed

Sections 100-120 (Part X) deal with sup-plementary provisions under the Act and cover such aspects as local inquiries; service of public notices; amendments and repeals in relation to previous legislation; and special provisions concerning London. Finally, the memorandum interprets the

eleven schedules to the Act and concludes with an appendix describing the procedure for compulsory acquisition of land designated in a development plan as subject to compulsory acquisition.

4.43 planning: urban and rural **OLDHAM TOWN CENTRE**

Oldham Town Centre Redevelopment Pro-posals. A. L. Hobson, Borough Engineer and Surveyor. (Post-War Development Committee; Borough of Oldham, 1948.

Central area redevelopment scheme published in order to explain proposals to town's citizens in manner easily understood by laymen. Photographs, maps, diagrams.

This town centre scheme for Oldham, which lies within eight miles of Manchester, has been prepared as a master plan to which all new building and rebuilding must conform. It has been planned within the framework of the outline planning scheme of the Oldham and District Regional Planning Committee and makes reference to a

ning Committee and makes reference to a survey of existing conditions and to pro-visional zoning proposals prepared by the Borough's planning officer. The plan is mainly concerned with a more orderly rearrangement of land use within the central area, and deals with transport, shopping facilities, business buildings, a civic centre and recreational facilities. The implementation of the proposals in three stages of ten years each is fully

Planning maps are clearly presented, but the architectural designs illustrated show an unfortunate lack of vision which is

5.27 planning: public utilities NATIONAL COAL BOARD, REPORT

Annual Report and Statement of Accounts for the Year ended December 31, 1947. for the Year ended December 31, National Coal Board. (HMSO, 1948 4s. 6d.)

First annual report of coal industry under public ownership. Some useful statistical data for planners concerning employment figures, plant, land, houses and other buildings owned by Coal Board. Notes on welfare, including relations with Miners' Welfare Commission, provision of pithead baths, canteens and educational facilities. Scientific research covering fundamental laboratory work, technical and health research. Reconstruction schemes and new collieries. Other comprehensive information dealing with production and disposal of coal, ancillary activities, manpower position and finance. Tables and charts. tha 9+

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12.23 materials: metal ALUMINIUM

Non-ferrous Metals in Building: 4 Alu-minium & Aluminium Alloys. (Building Digest, Aug., 1948, pp. 271-279.)

Characteristics of aluminium for structural uses: methods of forming, i.e., extrusion, forging, etc.: jointing: applications: finishes. Quite a useful illustrated summary, but more definite information is needed on the question of durability and finish for aluminium used in components exposed externally.

12.24 materials: metal STRUCTURAL STEEL

Structural Steel. BS 1 Standards Institution, 2s.) BS 15:1948. (British

Structural steel for bridges and general building construction.

The important feature of this revised edition is the inclusion of a requirement for a minimum yield point. For mild steel, no yield point has hitherto been specified, although the safety of structures mainly depends on the yield stress and not on the ultimate strength of the material.

The minimum requirements for the yield stress are as follows:—
Plates and sections, round

and square bars up to and including } in. thick-

15.25 tons/in2 ness Over 1 in, thickness ... 14.75 tons/in² Compliance with these requirements will enable designers to utilize the permissible stresses specified in BS C. of P. 113:1948 (see No. 17.34).

12.25 materials: metals STEEL CORROSION

Corrosion of Iron & Steel. (Metallurgia, Aug., 1948, pp. 201-206.)

Report of discussions on several papers about protection of steel against atmospheric corrosion and marine fouling.

The papers included—(1) The First Report of the Methods of Testing (Corrosion) Sub-Committee, from which BSI Provisional Specification 1391-1946 was compiled; (2) Service Trials of Painting Schemes Applied to a Steel Works Gantry; (3) The Protection of Iron & Steel by Various Iron Metallic Coatings; Studies on Anti-fouling Compositions, Pts. I to III; (4) Service Tests of Experimental Anti-fouling Compositions; (5) Cementiferous Paints; (6) Marine Exposures of Cementiferous Painting Schemes. The report on the discussions is fully documented so that the original papers may readily be found. The papers included—(1) The First Report

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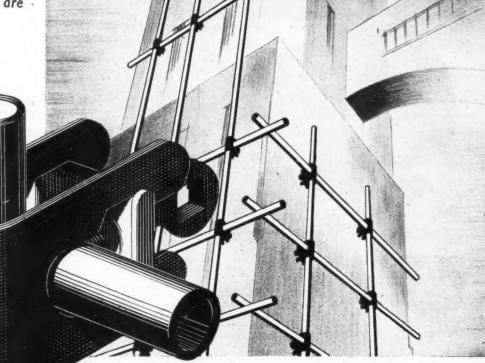
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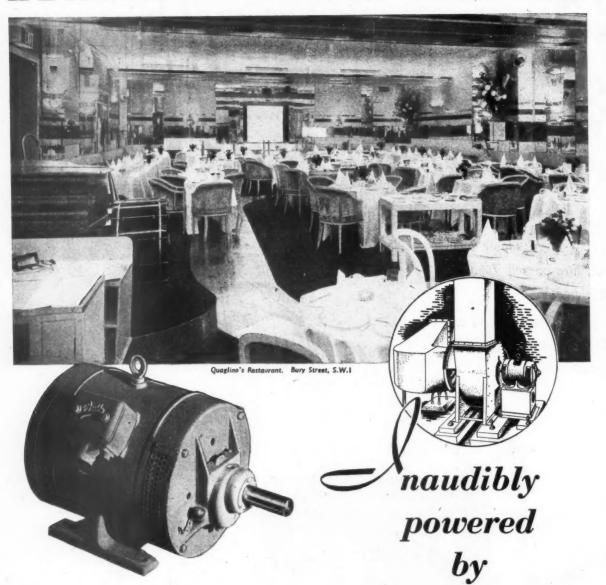
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The discussions on papers 2 and 3 are the most interesting from the architect's point of view, and the information which is given is of practical value. Points of particular

1. Both practical painting trials and small scale outdoor exposure tests showed that the efficiency of protective painting schemes is greatly increased by removing mill scale by pickling the paint. (The average life of two-coat work in the small-scale tests was 1.5 years for steel prepared by weathering hand cleaning as against seven years

and over for pickled steel.)

2. When dealing with large tonnages of steel in practice, the initial surface preparation of the steelwork and the application of the priming coat should take place immediately after fabrication.

3. In order to ensure efficiency from the

economic point of view:

(a) Special plant for descaling and painting structural steel needed first to be installed.

(b) This plant should be in continuous production, and this in turn could be achieved only if the user of structural steel were educated as to the value of correct methods of surface preparation for painting.

4. Where mechanical damage to the pro-

tective scheme is anticipated, additional protection might be given by a combination of a metallic coating and paint. Such com-posite coverings are a departure from existing practice, and their efficiency is at present

being studied.

The results of tests on a range of different non-metal.ic protective coverings is given in Paper 3 and are of considerable interest. As with so many papers of this kind there is no reference to cost and little to the practical possibility of using some of the methods which were under test.

12.26 materials: metal

ZINC

Non-ferrous Metals in Building—5. Zinc. (Building Digest, Sept., 1948, pp. 309-317.) Properties: coatings: galvanized roofing, etc.: rolled zinc: zinc alloy die castings: illustrated.

A well documented and informative article on the general characteristics of zinc, with useful data on physical and mechanical properties.

Examples of the behaviour of zinc in practice are quoted and reference is made to its limitations' as well as to its advantages.

Stress is laid on the merit of zinc for

weatherings, and also for weatherstripping. The illustrations are well chosen and help to provide a useful summary of the possible uses of zinc in building.

13,33 materials: timbers

ECUADORIAN TIMBERS

Ecuadorian Timbers: TDA Timber leaflet No. 35. (Timber Development Association.) List of timbers imported from Ecuador under the Hardwood Overseas Procurement III. Leaflet gives characteristics and uses of the various timbers described.

17.39 construction: general STRUCTURAL STEEL

The Use of Structural Steel in Building. BS 449:1948. (British Standards Institution,

Revised edition giving increased working stresses and incorporating requirements for

This BS, first issued in April, 1932, was last revised in 1937. During the war, temporary amendments were introduced, giving increased working stresses to secure a measure of economy in steel used in building, thus contributing towards the maximum

steel output required to meet urgent national demands. Meanwhile, the series of British Standard Codes of Practice for building has other important publications, CP4:1944, Chapter V. Loading (see 17.31), containing, among other important publications, CP4:1944, Chapter V. Loading (see 17.6:1.2.46) and CP113:1948 (see 17.34). This code will also include a sub-code on welding (113.102).

The revised issue of BS 449 is, broadly speaking, a compilation of CP4:1944, CP113:1948, and in its clauses relating to welding are likely to coincide with sub-

code 113.102, yet to be published.

Before the introduction of the codes,
BS 449 was a very useful document, referred to in many by-laws and almost
generally accepted as a basis for the design of structural steelwork. One would have expected that with the issue of the various codes, BS 449 would be superseded by these, which could be equally well incorporated in by-laws. The revised edition would, therefore, be in the best case superfluous, i.e., in so far as it agrees with the various codes mentioned. In fact, however, it is worse than unnecessary, because it contains various deviations from the codes and will cause much confusion and difficulty for the designer. To quote a few examples at random.

at random.

(1) Table 4 (wind pressures) is quite different from the corresponding Table in CP:1944, Chapter V, referred to in CP113 1948. Consequently a structure which is affected by forces due to wind will be rather different if designed in accordance with CP113:1948 than if designed in accordance with BS 449:1948. It may be argued that Chapter V will soon be revised and Table 4 will then be brought in line with the Table in BS 449, since every code has to be brought up-to-date from time to time. This in itself is sufficient reason to time. This in itself is sufficient reason to avoid repetitions and to refer to other codes only by quoting their numbers. If a code like CP4, Chapter V, is partly or fully included in another code or standard, any revision of the former renders the latter obsolete and the various codes can never

catch up with each other.

(2) Table 1 in CP113 (bending stress factors for symmetrical sections) differs from Table 10 in BS 449, although they should

be identical.

(3) According to CP113, Clause 321 (i), "One leg or the depth of the purlins or rail should be not less than L/48, etc.," whereas according to BS 449, Clause 55,

this limit is L/45.

(4) CP113, Clause 321 (iii) specifies that "the maximum stress in the purlin or rail should be calculated on the basis of a bending moment of $\frac{WL^2}{10}$." No such provision is

included in BS 449.

The preceding examples are sufficient to demonstrate the chaotic conditions created by the co-existence of two documents serv-

by the co-existence of two documents serving exactly the same purpose, identical in their main points, but different in details. Both documents are referred to in a press notice of the MOW/113/48, which says: "...as from 1st October, 1948, all construction involving the use of more than 25 tons of steel and requiring a licence from that Ministry must, wherever possible, comply with the new standards and Codes of Practice. In support of the application for a licence, certificates will be required from the responsible architect or engineer or other professional consultant to the effect that the building has been designed to take full advantage of the increased allowable stresses and the other weight-saving clauses of BS 449:1948 or Codes of Practice 113:1948 or 114:1948. Where this cannot be done, an acceptable explanation must be given?

Will the MOW issue a ruling establishing which of the two documents relating to structural steelwork is the more authorita-

26,41 services and equipment: miscellaneous LIGHTNING CONDUCTORS

Protection of Structures Against Lightning, BS C. of P. 326.101:1948. (British Stan-dards Institution, 4s.)

Supersedes earlier code prepared before present series of codes was started. Not very different in main points but contains more detail. A valuable reference.

This code deals with the arrangement of This code deals with the arrangement of conductors to provide proper protection and also covers detail points of design and installation. It probably provides the best reference there is on this subject, and should be widely used. Specialist firms should be required to conform to its recom-

26.42'services and equipment: miscellaneous ELECTRIC COOKERS

Selection and Installation of Domestic Electric Cookers. BS C. of P. 324.301:1948. (British Standards Institution 2s.)

Reference to appropriate B.S. Space requirements, finishes, design requirements and electricity supply requirements.

27.9 furniture and fittings

PAPER TOWELLING

Paper Towelling, Dispensing Cabinets & Disposal Bins. BS 1439:1948. (British Standards Institution, 2s.)

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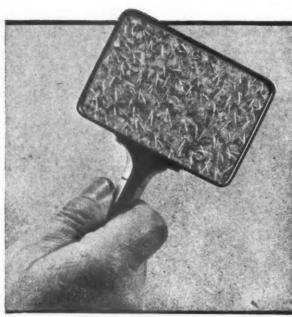
2965 CLAIMS: SECTION 58. TCPA

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TECHNICAL EXHIBITIONS

It was certainly a good idea for the Council of Industrial Design to organize a technical exhibition covering synthetic boards, plastic laminates and resin bonded materials, but more than a pity that the show should have stayed on for less than a fortnight, for there was a great deal to be seen in this small but well-arranged display. The space available at Murray House did not allow the more usual applications of the various wallboards and insulating boards to be shown in any great detail, but most architects should be familiar with the usual fixing methods by now, and the most interesting part of the display from the designer's point of view was the furniture, luggage casings and smaller items of equipment which had been made from resin bonded materials such as Vendura and Warerite.

It is to be hoped that it will at some time be possible to see this exhibition again, and that it will be open for at least a month. It is also small enough to be taken on tour without any great difficulty, where it should be even more useful than in London. The foreword to the catalogue informs us that this is the first of a series of technical exhibitions to be sponsored by the CID. This seems an admirable developus that this ment: the CID suffers from being a purely advisory body whose advice manufacturers need not take, or even ask for; providing designers with information about materials is a newer but important activity which one may be sure designers will welcome.

TIMBER PRESERVATION

At a recent reception organized by Messrs. Hickson & Welch, Mr. E. H. Nevard, known to many of us as a past member of the Forest Products Research Laboratory

staff, suggested that much timber can be starr, suggested that much timber can be saved by treating it with preservative and thus making it last longer. The building industry consumes about 25 per cent. of imported softwoods and every effort must be made to use it in the most economical way; preservation, if properly carried out, also saves labour for maintenance and replacements.

Preservation to most people (including a number of architects and builders) means brushing with some preservative, usually with a tar oil type which includes creosote. treatment can only be skin deep. Slightly more protection is given by dipping the timber into the preservative but the effect again is only of limited depth and would be of little use if the risk were severe.

A further method is the hot and cold open tank process. This can only be used with certain timbers which are easily treated, and there is little control over the amount of preservative that is absorbed. The process consists of submerging the timber in the preservative solution, which is then heated; the timber is then left in the preservative

while the solution cools.

For adequate penetration it is necessary to use the pressure method by which the pre-servative is forced into the timber. (See BS 1282.) There are two variations of this treatment, the empty and full cell methods. In the empty cell method the timber is sub-jected to an initial air pressure of about 40 lb. and without releasing this pressure the cylinder is filled with preservative solution.

Pressure is then increased to 200 lb. and when the required absorption has been obtained this pressure is released and the cylinder emptied. In the full cell process an initial vacuum is applied to the timber to assist penetration during the subsequent pressure operation. This second method is the one usually used with water soluble preservatives as it leaves the cells of the timber completely charged with preservative and enables a greater concentration of the toxic elements to be left behind.

There are three main classes of preservatives, the most familiar being the tar oil type, which includes creosote. This is an admirable preservative but has the disad-vantages of smell and dark colour, while creosoted timber cannot be painted over. The second type of preservative is known as the solvent type. The toxic elements are usually dissolved in oil or spirit which is specified as being volatile. The application of this preservative is therefore limited. With the third type of preservative, which is known as water soluble, there is no risk of accidents as the salts are dissolved in water.

They are odourless, the treated timbers can be easily painted, and the degree of con-centration in the solution can be varied at will by the addition of extra salts. These preservatives are applied by the pressure methods and as the normal aim is to obtain as deep a penetration as possible this last point is important, as, even with resistant timbers, virtually complete penetration can be obtained.

Although the salts are soluble in water they cannot be removed from the timber as easily as they are put in, for a chemical reaction takes place in the timber and the salts are fixed in a relatively short period.

The cost of treatment by the full cell process is about £10 a standard, so that the cost of the average small house would be increased by about 1 per cent., which may be regarded as a non-recurring premium for insurance throughout the whole life of the house against the attacks of both fungi and wood destroying insects. (Hickson & Welch Ltd., Ings Lane, Castleford, Yorkshire.)

INFORMATION ON GLASS

Pilkingtons have always realized that architects need information, and their publicity both in the press and at exhibitions has always been helpful and informative. The illustration on this page shows a compact display which has been produced for use in technical colleges and schools. It shows specimens of different types of glass, photographs of applications, and gives constructional details suitable for glass block walling. (Pilkington Bros. Ltd., St. Helens, Lancs.)

DATA ON ZINC

The current edition of the Zinc Bulletin (No. 5) includes two pages of useful notes on the design and fixing of zinc weather-ings and a data sheet dealing with zinc rainwater pipes to BS 1431.

Owing to their lightness, zinc pipes are casy to install and are fixed, with the seam at the back, by galvanized steel screws passing through the ears into suitable wall plugs. The screw heads may be left exposed or concealed by folding back the outer edge of

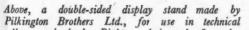
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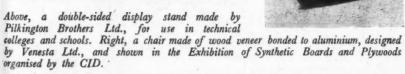
the ear.

It is good practice to mount the pipes away from the wall, and there are several methods of doing this; for example, by screwing to a hardwood block big enough to support the entire surface of the ears.

Another, and perhaps better, method is to use special clips which can be obtained either exist or built up from galvanized steal. either cast or built up from galvanized steel bar. This method of fixing is generally pre-ferred on the continent, and is both neat and strong, (The Zinc Development Associa-tion Ltd., Lincoln House, Turl Street, Oxford.)









Announcements

Mr. H. Hubbard Ford, F.R.I.B.A., of 24, Cornfield Road, Eastbourne, has opened a branch office at 51, Church Road, Hove, 3, Sussex, where he will be pleased to receive trade catalogues, data, etc.

A new model of the Biro Minor, called the New Biro Minor, has been produced by the Miles-Martin Pen Company, Ltd. Possessing all the qualities of the old model, the New Minor is refillable with inserts, available in four colours, red, blue,

inserts, available in four colours, red, blue, green and black, and a cap enables it to be carried in the pocket or handbag.

The Midland Electric Manufacturing Co. Ltd., of Birmingham, announces that as from November 1, all MEM products, including switchgear, fusegear, motor starters, industrial lighting fittings, transformer

units, tumbler switches and accessories, are

mins, fullible switches and accessories, are reduced in price by 5 per cent.

Mr. J. L. Cotterell, who for many years has represented the Vinculum Department of Tarmac Limited in the Midland Area, has now been appointed Sales Managerief that Department to Mr. J. W. Postings, who, although remaining in the service of the company, has relinquished his former position for reasons of ill-health. his former position for reasons of ill-health. A new factory at Glasgow for producing yarn from fibre glass has been officially opened by the Lord Provost of Glasgow. Built for Fibreglass Ltd., the factory is three storeys high with a floor area of nearly 100,000 square fect. Staff meals are provided in canteens and shower baths and rest rooms are available. The factory can be easily expanded, and additions will shortly be made to the 24 furnaces already installed. At a lunch preceding the opening Sir Hugh be made to the 24 furnaces already installed. At a lunch preceding the opening Sir Hugh Chance, chairman of the company, said the process had been introduced to Britain 18 years ago at the Firhill works of Chance Brothers. The rate of development seemed to justify the setting up of a separate company in association with Pilkington Brothers, St. Helens, Lancashire. The resources of the original plant were strained during the war and the new factory was planned in 1941. The firm were now in process of concentrating all their textile interests in Glasgow. interests in Glasgow.

Correction

The house at Sonning, illustrated in our issue for October 21, was built in 1940. This should have been mentioned to avoid anyone thinking that a house of this type could have been built since the war for £1.200.

Buildings Illustrated services.

Kingston-upon-Thames Power Station (pages 419-420). The Civil Engineering Works were carried out by Charles Brand & Sons, Ltd. Among the sub-contractors were: Structural steelwork, Redpath, & Sons, Ltd. Among the sub-contractors were: Structural steelwork, Redpath, Brown & Co. Ltd.; reconstructed stonework, Empire Stone Co. Ltd.; handmade facing bricks, Sussex & Dorking Brick Co. Ltd.; precast concrete roofing, Siegwart Fireproof Floor Co. Ltd.; precast concrete roof lights, Haywards, Ltd.; metal windows and gearing, Henry Hope & Co. Ltd.; glazing, Ayges, Ltd.; asphalte work, General Asphalte Co. Ltd.; steel staircases and handrailing, F. A. Norris & Co. Ltd.; Terrazzo tiling and granolithic, British Doloment Co. Ltd., and Prodorite, Ltd.; plumbing, Stitson, White & Co. Ltd.; painting and decorating, T. H. Kenyon & Sons, plumbing, Stitson, White & Co. Ltd.; painting and decorating, T. H. Kenyon & Sons, Ltd.; turbo-generator plant, British Thomson-Houston Co. Ltd.; earthenware goods, Doulton & Co. Ltd.; fire protector equipment, Mather & Platt, Ltd., Pyrene Co. Ltd., and Walter Kidde Co. Ltd.; heating installation, Norris Warming Co. Ltd.; Hy-Rib construction, Trussed Concrete Steel Co. Ltd.; ltd.; lifts (electric) Keiphey Lifts Ltd.; Rib construction, Trussed Concrete Steel Co. Ltd.; lifts (electric), Keighley Lifts, Ltd.; lighting installation, Troughton & Young, Ltd.; oil coolers, Serck Radiators, Ltd.; paints, Griffiths Bros, Ltd., Cellon, Ltd.; vacuum cleaning plant, British Vacuum Cleaner & Engineering Co. Ltd.; lagging, Newalls Insulation Co. Ltd.; feed pumps, Mather & Platt, Ltd.; cables, British Insulated Callender's Cables, Ltd.; batteries (storage), Chloride Electrical Storage Co. Ltd.; coment Cement Marketing Co. Ltd.; Ltd.; cement, Cement Marketing Co. Ltd.; condenser tubes, I.C.I. (Metals), Ltd.; mechanical stokers, ash extraction plant, Babcock & Wilcox, Ltd.

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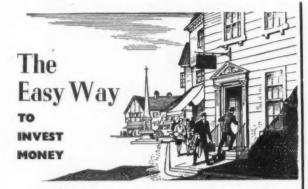
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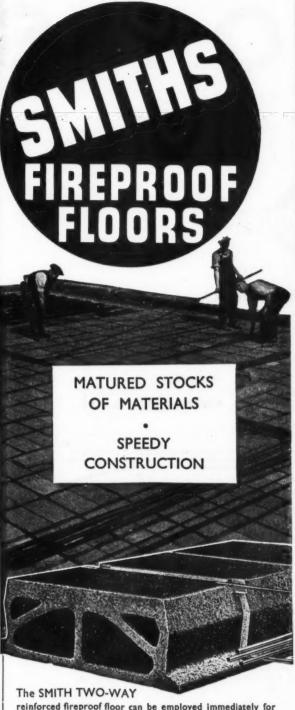
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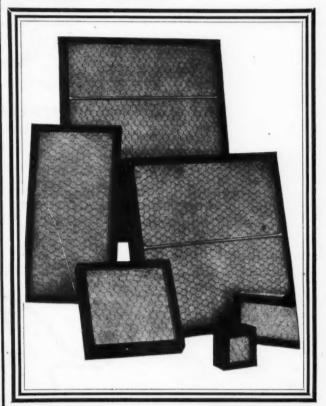
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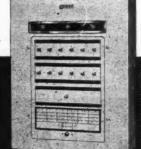
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Apac products for the decorator

APAC Super Hard Gloss Paint. A superfine paint manufactured from selected gums, oil and pure pigment—a combination which gives the best balance of durability, gloss and ease of application.

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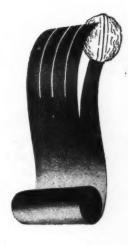
APAC Durable Gloss Paint. Especially suitable for the home decorator. It is easy to apply and dries with a hard glossy surface. Obtainable in an attractive colour range.



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Allied Paints & Chemicals Ltd., Tyseley, Birmingham, 11.





in a nutshell

There is a school of thought which holds that IBECO advertisements should not appear unless everyone who wants IBECO can get IBECO.

This, it seems to us, is like saying that because the nation can't enjoy total freedom at the moment, people should stop talking about freedom.

The wider the news and knowledge of good things are spread, the sooner the good things will be available to all.

We are producing IBECO to the top limit of what Authority and the supply of raw materials will allow. But the plain fact is that there's not enough to go round. Nevertheless, if you have a good case for using IBECO, let us know. We will explore all the "ways and means".



 famous British waterproof Kraft paper, with a score of proofing uses in building and constructional work

C. DAVIDSON & SONS LTD. (DEPT. K74) BUCKSBURN, ABERDEEN



asbestos fibres,

More then conforms with the requirements of British Standard Specification
No. 7431/941. Supplied in rolls of 24
lin. ft. in all wall widths up to 36 in.

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100% MINERAL DAMPCOURS

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THE RUBEROID CO. LTB., 2, Commonwealth House. New Oxford St., London, W.C.1

for a permanent but flexible dampcourse to withstand normal

foundation settlement, invariably specify Astos 100% Mineral Dampcourse, a balanced combination of selected bitumens and











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EN-TOUT-CAS

THE
LARGEST CONTRACTORS
IN GREAT BRITAIN FOR
ALL TYPES OF SPORTS GROUNDS

Makers of the

RECORD BREAKING RUNNING TRACK USED FOR THE OLYMPIC GAMES AT WEMBLEY STADIUM 1948

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The Pioneer British made Building & Insulation Boards, with Fifty Years' reputation for high quality and all-round excellence

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Tel: CHAncery 8159. Works: Sunbury-on-Thames, Middx.

Members of Building Board Manufacturers Association

CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal." 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1. and should reach there by first post on Friday morning for inclusion in the following Thursday's

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

Available only to applicants excepted from the Control of Engagement Order, 1947.

Public and Official Announcements

Public and Official Amnouncements
21s. per inch; each additional line, 2s.

The Incorporated Association of Architects and
Surveyors maintains a register of qualified
architects and surveyors (including assistants) requiring poets, and havites applications from public
authorities and private practitioners having staff
vacancies. Address: Employment Redisters.
When Park, Whitharps. Tel.: Uplands 0935, 991

LONDON COUNTY COUNCIL.
HOUSING AND VALUATION DEPARTMENT.
ARCHITECTURAL ASSISTANTS. Applications are invited for positions of Architectural Assistant, at salaries of up to £580 a year. Commencing salaries will be determined according to qualifications and experience, and qualified candidates will be eligible for appointment to the permanent staff of the Department on the occurrence of vacancies. Engagement will involve Superannuation contributions at the rate of 6 per cent.

annuation contributions at the rate of a per center of salary.

Successful candidates will be required to undertake the design, layout, and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's division.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed foolscap envelope required). Canvassing diagualifies. (870).

disciplination of the measuring up and settlement of the appointment of the propagation o

Act, 1937.

Applications must be made on the prescribed form, which can be obtained from the undersigned, Town Hall. Watford, and must be returned to him not later than Friday, 5th November, 1948, endorsed "Temporary Assistant Quantity Surveyor."

F. C. SAGE, Assoc.M.Inst.C.E., M.Inst.Mun.E., Borough Engineer and Surveyor. Town Hall, Watford.

Town Hall, Watiorn.

October, 1948.

LONDON COUNTY COUNCIL.

Required at Brixton School of Building,
Ferndale Read, S.W.4, to commence as soon as
possible:

(a) SENIOR ASSISTANT IN ARCHITECTURE. Applicants should be Fellows or
Associates of R.I.B.A.—a degree or diploma of a
recognized school a recommendation.

(b) SENIOR ASSISTANT IN SURVEYING.
Applicants should be Fellows or Associates of
R.I.G. ASSISTANT IN SURVEYING.
Applicants should be Fellows or Associates of
R.I.G. ASSISTANT IN SURVEYING.

B.I.O.S. Burnham scale salary, £700—£25—£800, with London allowance and training and graduate additions as appropriate. Application forms and further particulars (stamped addressed footscap envelope necessary) from the Principal at the school, returnable by 17th November, 1948. (2080)

MONTGOMERYSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the post of ARCHITECTURAL ASSISTANT on the permanent staff.
Salary in accordance with Grade II of the
Administrative, Professional and Technical
Division of the National Joint Council Scale
(£420×£15—£465). The appointment is subject
to:

the Local Government Superannuation Act, 1937, and

(b) the Scheme of Conditions of Service prescribed by the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services. Candidates should have passed the Intermediate examination of the R.I.B.A. and have had general experience in design and construction, or have reached an equivalent standard. Forms of application may be obtained from the undersigned, to whom they should be returned, duly completed, not later than Saturday, 13th November, 1948. Canvassing, directly or indirectly, will be a disqualification.

P. B. WHITE,

Clerk of the County Council.

County Offices, Weishpool.

22nd October, 1948.

BOROUGH OF SOUTHGATE.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.
APPOINTMENT OF CHIEF ARCHITECTURAL
ASSISTANT.

APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT.

Applications are invited for the abovementioned appointment in the Department of the
Borough Engineer and Surveyor.

The salary will be Grade VII of the A.P.T.
Division of the National Joint Council Scales,
plus the appropriate London weighting.
Applicants must be Associate Members of the
Royal Institute of British Architects or hold an
equivalent qualification.

Forms of application may be obtained from the
Borough Engineer and Surveyor, and should be
returned to the undersigned not later than 9 a.m.
on Monday, the 15th November, 1948.

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

GORDON H. TAYLOR,
Town Hall Palmers Green, London V.13.

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

GORDON H. TAYLOR.

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

18th October, 1948.

NORTHERN REGIONAL HOSPITAL BOARD

Applications are invited for the post of ARCHITECT to the above Board.

Candidates, who should not be more than 45 years of age, must possess a recognized qualification in architecture.

The salary will be at the rate of £750×£30 to £1,000 per annum. The post is a superannuated one in terms of the National Health Service (Scotland) (Superannuation) Regulations, 1948, and the successful candidate will be required to pass a medical examination.

The post will be terminable by three months' notice on either side.

Schedules of application can be obtained from the undersigned, and should be submitted to him together with the names of three referees, not later than Friday, 19th November, 1948.

Secretary and Administrative Medical Officer.

Raigmore Hospital, Inverness.

\$\frac{2425}{2425-2500}\$, Dus bonus. Good County post offered to young CHARTERED ARCHITECT or ENGINEER in County Planning Office in N. Ireland. Car allowance, and post peusionable after qualifying for AMT-PI. Excellent Flat at nominal rent in County town. Form of applications with conditions from Box 613.

COUNTY BOROUGH OF WALIFAX.

BOROUGH ENGINEER'S DFPARTMENT.

APPOINTMENT OF SENIOR ACCHITECT TORAL ASSISTANT.

APPOINTMENT OF SENIOR ACCHITECT ment, at a salary in accordance with Grade V. A.P.T., of the National Scales (£520, rising to £570 per annum). Previous Municipal experience is not essential providing the candidates have had sound architectural experience.

The position is a superannuated one.

Applications, stating age, qualifications, present position and salary and experience, and accompanied by copies of recent testimonials and appropriately endorsed, should be delivered to the undersigned not later than Wednesday, 10th November, 1948.

R. de Z. HALL. Town Clerk.

Town Hall, Halifax. 16th October, 1948.

CITY OF PORTSMOUTH.

CITY PLANNING OFFICER'S DEPARTMENT.
Applications are invited for the following appointments:

(a) DEPUTT CITY PLANNING OFFICER.

Salary of £780-£900 per annum.

Applicants must be Associate Members of the Town Planning Institute, and should preferably hold a recognized qualification in Architecture, Engineering or Serveying.

(b) TWO PLANNING ASSISTANTS. Grade V, £586-£560 per annum.

(c) TWO PLANNING ASSISTANTS. Grade V, £586-£70 per annum.

5-£570 per annum.
ONE GENERAL ASSISTANT. Grade I,

(d) UNE GENERAL ASSISTANTS. General Division, 2136-2385 per annum, according to age. Knowledge of current Town Planning practice is essential, and candidates for Grade VI and V positions should possess appropriate technical

is essential, and calculates by the positions should possess appropriate technical qualifications.

The City Planning Department is charged with the duties of preparing the Development Survey and Plan and administering Planning Control under the 1947 Act, and with the preparation of detailed reconstruction proposals for a Declaratory Area of 430 acres in the centre of the City.

The appointments will be subject to:

(a) The National Scheme of Conditions of Service.

(b) The provisions of the Local Government Superannuation Act, 1937.

(c) The successful candidates passing satisfactorily a medical examination by the Corporation's Medical Referee.

(d) Termination by one month's notice on either side.

side.

Applications, stating age, present position, qualifications and experience, logother with the names of three responsible persons to whom reference may be made, must be delivered to the undersigned, clearly marked "City Planning Appointment," not later than the 36th November, 1948.

V. BLANCHARD, Clerk

City Council Chambers, Southsea. 21st October, 1948.

CARDIGANSHIRE COUNTY COUNCIL.
COUNTY PLANNING DETARTMENT.
Applications are invited for the appointment of
PLANNING ASSISTANT. A.P.T. Grade I
(£300×£15—£435), in the Development Survey
Section of the above department.
Applicant must have had previous planning experience, and preference will be given those who
have passed the Intermediate examination of the
Town Planning or 6ther Technical Institution.
The successful candidate will be engaged on
the preparation of the County Development Plan,
and experience in the preparation of estate layouts for Municipal and other housing development, including ancillary social sorvices connected
therewith is essential.
The appointment is subject to the provisions of
the Local Government Superannuation Act, 1937,
the National Joint Council's Scheme of conditions
of Service, the passing of a satisfactory medical
examination, and to one month's notice on either
Applications should give details of age, whether

side.

Applications should give details of age, whether married or single, education, technical training, qualifications, present and previous appointments, and experience. Copy of one recent testimonial and name and address of two persons to whom reference may be made, should be submitted. Applications should reach the undersigned not later than 11th November, 1948.

NORMAN GREEN WOOD.

Cambrian Chambers, Aberystwyth.

21st October, 1948.

Zist October, 1948. 659

LONDON COUNTY COUNCIL.
QUANTITY SURVEYORS.
Vacancies exist for Quantity Surveyors, in the Housing and Valuation Department, for work in connection with the development of cottage estates and the construction of multi-storey dwellings, at consolidated salaries of up to £580 a year, the commencing salary in each case being determined according to qualifications and experience. Successful candidates will be required to contribute to the Council's Superannuation and Provident Fund, and will be eligible for appointment to the Council's permanent staff and for advancement on the occurrence of vacancies.

Duties will include:—

(a) Measurement of work in construction of houses, roads and sewers, preparation of interim and final bills; measurement and adjustment of sub-contracts; preparation of cost statistics, estimates, etc.

(b) Management of housing contracts of considerable value; interim valuations for payments; measurements of variations and settlement of final accounts.

Forms of application may be obtained from the

final accounts.

final accounts.

Forms of application may be obtained from the Director of Housing and Valuer, The County Hall, Westminster Bridge, S.E.1 (a stamped addressed foolscap envelope required). Completed forms must be returned not later than seven days after the appearance of this notice. Canvassing disqualifies. (632)

LONDON TRANSPORT EXECUTIVE.
Applications are invited for the following temporary appointments on the staff of the Archi-

tect:—
(a) ARCHITECTURAL ASSISTANTS. Fully qualified and experienced. Salary range £500-£560

qualified and experienced. Salary range £500-£500 per annum.

(b) GENERAL TECHNICAL ASSISTANTS. Passed Intermediate standard, with office experience. Salary range £215 to £445, according to age and qualifications. Applications, giving full particulars of training and experience, to be addressed to the Staff Officer (F/EV.29), London Transport Executive, 55, Broadway, S.W.L.

SURREY COUNTY COUNCIL

SURREY COUNTY COUNCIL

COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited from persons with
the appropriate practical experience for the
appointment of CLERKS OF WORKS, in the
County Architect's Department.
The salary will be Grade III, 2450, rising by
annual increments of £15 to a maximum of
2495, plus London allowance of £30 per annum.
The duties will involve in turn supervision of
the whole of the works normally carried out by
the County Architect, i.e., major works, minor
works of adaptations, and maintenance repairs.
No housing will be a vasilable, and the Clerk
of Works, who will be on the permanent staff of
the Council, will be required to reside in the
district for which he is appointed.
Vacancies will shortly occur in the following
Divisions:

North Central,
North Western

North Central,
North-Western,
Southern.
The successful applicants will be required to
have received a good practical training in one
of the recognized crafts of the Building Trade,
and have had a number of years of supervisory

and have had a number of years of supervisory experience.

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

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, not later than the 13th November, 1948.

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

DUDLEY AUKLAND.

Clerk of the Council.

County Hall, Kingston-upon-Thames.

FRIERN BARNET URBAN DISTRICT COUNCIL.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Temporary Architectural Assistant, within the ange of Grade V-A for the London area, £580-640 errors.

2640 gross.

The appointment will be subject to provisions of the Local Government Superannuation Act, 1937, and is terminable by one month's notice on

either side.

Applicants should have professional experience, including considerable experience in housing work and membership of the R.I.B.A. will be an ad-

Applications, stating age, experience, qualifica-tions and past appointments, accompanied by copies of two recent testimonials, should be made to J. Marshall, Esq., M.I.Mun.E., Engineer and Surveyor, Town Hall, N.11, and should be received not later than 13th November, 1948.

G. T. FLETCHER,

Clerk of the Council.

656 Town Hall, Friern Barnet, N.11.

Town Hall, Friern Barnet, N.11.

BOROUGH OF NELSON.

APPOINTMENT OF AROHITECTURAL

ASSISTANT.

Applications are invited for the appointment of
JUNIOR ARCHITECTURAL ASSISTANT, in the
Borough Surveyor's Department, at a salary in
accordance with Grade II of the National
Scales. £400 × £15-£465 (consolidated).

Candidates should have experience in housing
and general works, and preference will be given
to applicants who have passed the Inter. B.I.B.A.
examination. Applications, giving detailed particulars of experience and qualifications, endorsed
"Architectural Assistant," with copies of three
recent testimonials, to be delivered to the undersigned on or before Thursday, 11th November,
1946.

F. W. ROBERTS.

F. W. ROBERTS, Town Clerk.

Town Hall, Nelson, Lancashire. 21st October, 1948.

NATIONAL HEALTH SERVICE.

NATIONAL HEALTH SERVICE.

TORQUAY DISTRICT HOSPITAL MANAGEMENT COMMITTEE.

Applications are invited for the post of BUILDING SURVEYOR for the Group Hospitals (865
beds) and Clinics. Salary £630×£25-£730.
Candidates should posses one of the following
qualifications, ets.: Associate Membership of the
Institution of Civil Engineers. Associateship of
the Royal Institution of Chartered Surveyors or
Associateship of the Royal Institute of British
Architects, and preferably have a knowledge and
experience of the administration of Building
Bye-Laws, the Town Planning Acts, and the
general work of a Building Surveyor's office. He
will be responsible for advising on planning proposals, co-ordinating work, and the maintenance
of the fabric of the buildings and of their
Services. Officers who are transferable within
the meaning of Section 68 (i) (a) of the National
Health Service Act may opt to retain their existing salaries and conditions of service. The
successful candidate will be required to pess a
medical examination, and will be subject to the
National Health Service Superannuation regulations.

Applications, stating age, qualifications, ex-

tions. Applications, stating age, qualifications, experience, and present and past appointments, and giving the names of three referees, should reach the undersigned on or before Tuesday, 9th November, 1948, under cover endorsed "Building Surveyor."

E. L. GRIST,

62/64. East Street, Newton Abbot, S. Devon. 20th October, 1948.

20th October. 1948.

SOUTH-WEST. DUBHAM HOSPITAL

MANAGEMENT COMMITTEB.

Applications are invited for the post of
HOSPITALS ENGINEER. The person appointed
will be responsible to the Management Committee for the satisfactory operation and maintebance of the services of the 10 hospitals within
the group, as well as being directly in charge of
the engineering services in one of the hospitals.
He should reside within easy reach of that
hospital. He will be required to supervise the
carrying out of works of engineering maintenance
and to keep all records necessary for the effective
and efficient control of the engineering staff,
plant, services and equipment. He will also be
responsible for the maintenance of the fabric of
the buildings.

Applicants for this appointment should be
mechanically trained, having served an apprenticeship, and should possess a qualification at
least up to the standard of the Higher National
Diploma in Mechanical Engineering, or equivalent
in building design, construction, repair and maintenance.

The salary will be on the scale 2650, rising by

in building design, construction, repair and maintenance.

The salary will be on the scale £620, rising by annual increments of £25 to £720 per annum.

The appointment will be subject to the National Health Service (Superannuation) Regulations, 1947, and the successful applicant, if not a transferable officer within the meaning of Section 68(1)(a) of the National Health Service Act, will be required to pass a medical examination. The appointment will be terminable by three months' notice on either side.

Applications, giving agc, qualifications and experience, and the names and addresses of three referees, should be sent, not laier than Thursday, 11th November. 1948, to the Secretary of the Committee at The General Hospital, Bishop Auckland, Co. Durham.

CITY OF NOTTINGHAM.

HOUSING ARCHITECT'S DEPARTMENT.
Applications are invited for the appointment of a SENIOR ASSITANT ARCHITECT. Grade A.P.T., VII, salary £635-£710 p.a.
Candidates must be registered architecta, with practical experience in the design and construction of houses and flats, and the preparation of layouts for large estates.

The successful candidate will be required to take charge of the drawing office, and some administrative experience will therefore be an advantage.

administrative experience will therefore be an advantage.

The above appointment is in accordance with the National Joint Council's Seheme of Coaditions of Service, and will be subject to the Local Government Superannuation Act, 1947.

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

Applications, accompanied by copies of not more than three recent testimonials, must reach me not later than Thursday, 18th November, 1948.

J. E. RICHARDS, Town Clerk. The Guildhall, Nottingham

The Guildhall, Nottingham.

Town Clerk.

CHESHIRE COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.

APPOINTMENT OF PLANNING STAFF.

Applications are invited for the following appointments, which are on the permanent establishment of the County Planning Department. The posts are subject to the Local Government Superannuation Act, 1937, and the successful applicants will be required to act under the direction of the County Planning Officer, and, in the case of Area appointments, under the direction of the Area Planning Officer, in the preparation of a Development Plan for the County, and the control of development under the Town and Country Planning Act, 1947.

(a) RESKARCH ASSISTANT. Salary A.P.T., VIII (£685-£760). Headovarters Office, Chester. Duties will include the co-relation of basic surveys, statistics supplied by Government Departments and other bodies, and surveys for specific purposes, e.g., mineral, industrial, population, historical, etc.

Preference will be given to candidates possessing a degree of a British University in Geography or Economics, and having practical experience in research and survey work. Ability in statistical analysis and graphic representation will be an advantage.

(b) SENIOR PLANNING ASSISTANT, Chester. Salary A.P.T., VVI (£520-£660).

Applicants should be Corporate Members of the Town Planning Institute, and preference will be given to those possessing an additional recognized qualification in architecture or engineering. They must also have had considerable experience in all aspects of statutory planning, development control, and planning procedure.

(c) PLANNING ASSISTANTS. Salary A.P.T., III-IV (£450-£525).

Applicants for these positions should have obtained the Intermediate examination (or eventual textutions).

control, and planning procedure.

(c) PLANNING ASSISTANTS. Salary A.P.T.,
IH-IV (2460-£526).
Applicants for these positions should have
obtained the Intermediate examination (or
equivalent) of one of the recognized Institutions,
and preference will be given to candidates who
have had training in architecture and some experience in Town and Country Planning.
The successful applicants will be stationed in
the following areas:—Chester, Northwich, Nantwich, Stockport and Altrincham, and all applications should indicate the applicant's preference.

(d) JUNIOR PLANNING ASSISTANTS, Salary
A.P.T. I-II (£390-£465).
Applicants should have had training in a
planning, architectural, surveying or engineering
office.
The successful applicants will be stationed in
Chester and Stockport, and all applications
should therefore indicate the applicant's preference.

Forms of application, together with data-lie of

should therefore indicate the applicants processes.

Forms of application, together with details of the duties and conditions attaching to the appointments, may be obtained from the undersigned on receipt of a snamped and addressed foolscap envelope.

The last date for the receipt of completed applications is the 10th November. 1948.

KENNETH O. MALE.

Country Planning Officer.

Bridgegate House, Lower Bridge Street,
Chestor.

COLUMN ROPOLICH OF CROYDON.

COUNTY BOROUGH OF CROYDON.
SCHOOL ARCHITECT'S SECTION.
Applications are invited for the following

appointments:

(a) ARCHITECTURAL ASSISTANT.

Considerable experience in preparing working drawings and knowledge of specification writing

required.

(b) JUNIOR ARCHITECTURAL ASSISTANT.
Applicants should be of Inter. R.I.B.A.
standard, with experience in preparing working

standard, with experience in preparing working drawings.

Salaries: (a) A.P.T., IV, £480×£15—£525 d.s.;
(b) A.P.T., II, £420×£15—£465 p.a. In addition London weighting of £30 p.a. is paid (£20 p.a. if under 26 years of age).

The appointments are pensionable, subject to medical examination.

The Council does not offer living accommodation for these appointments.

Forms of application, obtainable from the Chief Education Officer, Katharine Street, Croydon (on sending stamped addressed foolscap envelope), must be returned to him not later than 13th November. 1948.

Canvassing will disquality.

E. TABERNER,

Toton Clerk.

COUNTY BOROUGH OF NORTHAMPTON.
BOROUGH ARCHITECT'S DEPARTMENT.
ASSISTANT ARCHITECT.
A.P.T., III (£450-£495).
Particulars of the above appointment and forms of application, which must be returned by \$th November, may be obtained from the under-

gneu. Applicants should have had considerable experi-nce in design, construction and specification

C. E. VIVIAN ROWE, Town Clerk.

BORO

Applica TWO A salary National

Preference Payar I experience would be Condit the Natare on provision Actrequired Forms Borough Burnley

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Guildhall, Northampton.

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Guildhall, Northampton.

EAST BARNET URBAN DISTRICT COUNCIL.
ENGINEER AND SURVEYOR'S

DEPARTMENT.

Applications are invited for the following permanent appointments—

(a) CHIEF ARCHITECTURAL ASSISTANT.

Grade VI (2595-2550, consolidated), plus the appropriate London weighting and car allowance for a 10 h.p. car or under in accordance with the National Joint Ceuncil's Scale.

Applicants should hold an architectural qualification by examination, and preference with a Local Authority and in Town Planning.

(b) TWO ENGINEERING ASSISTANTS.

Grade V (2520-2570, consolidated), plus the appropriate London weighting.

Applicants must have had considerable general experience in Municipal Engineering, and should be Corporate Members of the Institution of Civil Engineers, or should hold the Testamur of the Institution of Municipal Engineers.

Housing accommodation will be rented to the successful applicants, if deemed necessary.

Housing accommodation will be rented to the successful applicants, if deemed necessary.

Each appointment will be subject to the provisions of the Local Government Superannaation Act, 1837, and to the passing of a medical examination.

Forms of application should be obtained from the undersigned and returned be not later than Monday, 15th November, 1948.

C. M. BARNES, O.B.E., M.I.Mun.E., FR.S.I., Engineer and Surveyor.

Town Hall, Station Road, New Barnet.

Engineer and Surveyor.

TARVIN RURAL DISTRICT COUNCIL.
DRAUGHTSMAN.
Applications are invited for the appointment of an ARCHITECTURAL or SURVEYOR'S DRAUGHTSMAN, in the Office of the Engineer and Surveyor. nd Surveyor.

Applicants must have had a recognized training

and Surveyor.

Applicants must have had a recognized training and good experience.

The successful applicant will be engaged in a variety of work, including the revision and maintenance of Ordnance Survey Maps, and the usual Building and Engineering works carried out in a Local Authority's office.

The salary will be in accordance with Grade I (Miscellaneous Division) of the National Joint Council Scheme, viz., £315×£15-£360.

The appointment will be subject to one month's notice in writing on either side, to the provisions of the Local Government Superannuation Act, 1937, and to the selected candidate passing satisfactorily a medical examination.

Applications, stating age, qualifications and experience, together with copies of three recent testimonials, should be enclosed in an envelope endursed "Draughtsman," and addressed to Mr. Thomas Pritchard, M.I.Mun.E., to reach this office not later than Wodnesday, the 10th November, 1948.

1948.
(Sgd.) J. H. MOOP, E DUTTON,
Clerk to the Council.
Westminster Buildings, Newgate Street
Chester.
26th October, 1948.

26th October, 1948. 681

COUNTY BOROIGH OF MERTHYR TYPFIL.
BOROIGH ENGINEER'S DEPARTMENT.
Applications are invited for the following appointments in the Town Planning Section:—
(a) FIRST SENIOR PLANNING ASSISTANT. A.P.T., Grade VI. Commencing alary 2595 per annum (rising by three annual increments of £20×£20 £25) to £660 per annum. Candidates should be A.M.T.P.I., with Engineering qualifications, and should have had particular experience in the Engineering Activities of a Town Planning Department.
(b) SECOND PLANNING ASSISTANT. A.P.T., Grade II. Commencing salary £420 per annum (rising by three annual increments of £15 per annum) to £465 per annum. Candidates should have the Intermediate Degree of the T.P.I., and preference will be given to those candidates who have Engineering or Architectural qualifications, and who have had some experience in a Town Planning Department.
Appointments are subject to the Local Govern-

some experience in a Town Planning Department.

Appointments are subject to the Local Government Superannuation Acts and the Corporation's Staff Conditions of Service. Successful candidates will be required to pass a medical examination, and the appointments will be subject to one month's notice cyn either side.

Applications, stating age, qualifications, past and present appointments, all details of experience, together with copies of not more than three recent testimonials, suitably endorsed, are to be delivered to the undersired not later than Thursday, the 18th November, 1948. Canvassing in any form will be deemed a disqualification.

EDWARD ROBERTS.

Town Clerk.

Town Hall. Merthyr Tydfil. 27th October, 1948.

Town Clerk.

COUNTY BOROUGH OF BURNLEY.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.
Applications are invited for the appointment of
TWO ARCHITECTURAL ASSISTANTS, at a
salary in accordance with Grade II of the
National Scales (£420, rising to £455 per annum).
Preference will be given to candidates who
have passed the Intermediate exumination of the
Boyal Institute of British Architects, and some
experience of educational buildings and/or housing
would be an advantage.
Conditions of service are those formulated by
the National Joint Council, and the appointments
are on the established staff and subject to the
provisions of the Local Government Superannuation Act, 1937. The successful applicants will be
required to pass a medical examination.
Forms of application may be obtained from the
Borough Engineer and Surveyor, Town Hall,
Burnley, to whom applications should be returned
in the envelope provided not later than noon on
Friday, the 19th November, 1948.
C. V. THORNLEY,
Town Hall, Burnley.
October, 1948.

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Friday, the 19th November, 1943.

C. V. THORNLEY,
Town Clerk.

October, 1948.

Amended Advertisement.
BOROUGH OF SOUTHALL.

APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the above, appointment, on the permanent staff of the Corporation, at a salary in accordance with Grade A.P.T., V(a), of the National Scheme (£550-£610), plus appropriate London weighting.

Candidates must be members of the Royal Institute of British Architects, and previous Local Government experience is desirable.

Housing accommodation will be made available in the case of a married applicant.

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

It is a condition of appointment that the successful applicant shall be a member of his appropriate trade union, professional organization or other recognized body.

Applications, on forms to be obtained from the Borough Engineer, Town Hall, Southall, must be returned to him on or before Monday, 15th November, 1948.

Canvassing will disqualify.

Town Clerk's Office, Southall.

EAST KILBRIDE DEVELOPMENT CORPORATION (NEW TOWNS ACT. 1946).
APPOINTMENT OF ARCHITECTURAL AND PLANNING STAFF.
Applications are invited for blanning and designing posts in connection with the early construction of the New Town at East Kilbride. Lanarkshire.
There are two senior positions covering the following aspects of the work:—(1) Planning, and

Lanarkshire.

There are two senior positions covering the following aspects of the work:—(1) Planning, and (2) the design and layout of housing and public and other buildings. The architectural and planning staff is under the direction of the Chief Architect and Planning Officer. D. P. Reay. B Arch. M.Sc. A.R.I.B.A., A.M.T.P.I.

The two bosts are:—
1.422/48.4. ASSISTANT CHIEF PLANNER. 2.1.000×250—21250 p.a.

ADDICATION 250—21250 p.a.

0648:— 1.493/48.A : SENIOR PLANNERS. £760×£40— 1.000 p.a. 1.424/48 A : SENIOR ARCHITECTS. £760×

20.00 b.a.

1.424/48 A: SENIOR ARCHITECTS. £760×
£40-£1.000 p.a.

1.421/48.A: LANDSCAPE ARCHITECT. £760×
£40-£1.000 p.a.

There is a superannuation scheme, and selected candidates will require to pass a medical examination. Applications, containing details of the candidate's are, qualifications and experience, together with the names of three referees, should be submitted in four conies to: The Technical and Scientific Register, Ministry of Labour and Vational Service. K. York House, Kingsway, London. W.C.2. not later than 30th November. 1948. Letters should state the title of the post applied for. There is no prescribed form of application. Canvassing, directly or indirectly, of the members of the Corporation will constitute an absolute dismanification.

COUNTY COUNCIL OF RENFREW.

COUNTY COUNCIL OF RENFREW.

TOWN PLANNING STAFF.

The Council invite applications for the appointment of SENIOR TOWN PLANNING ASIS-TANT, in the County Engineer's Department. Salary scale 2480, rising by varying annual increments to £570 per annum, inclusive of all bonus. Candidates should have passed the Final examination of the Town Plenning Institute or hold a professional qualification in Civil Engineering, Architecture or Surveying; and should have experience in the preparation of basic surveys and in the control of interim development, and should be conversant with the Town and Country Planning (Scotland) Act, 1947, and the various Revulations and Orders. The appointment is subject to the provisions of the Local Government Superannuation (Scotland) Act, 1937, and the surcessful candidate will require to pass a medical examination.

Applications, stating age, onalifications and experience, should be lodged immediately with the County Clerk, County Buildings, Paisley. 666

SOUTHERN RHODESIA GOVERNMENT.
PUBLIC WORKS DEPARTMENT
VACANCIES: ARCHITECTURAL DRAUGHTS.
MEN.
ANTITY SURVEYOR'S ASSISTANTS (WORKERS-UP),
Applications are invited for posts of Architectural Draughtsmen and Quantity Surveyor's Assistants ("workers-up"), with not less than siz years' experience in the work required.
Appointments will be on the basis of a three-year contract.

Appointments will be on the basis of a three-year contract.

Salary scale: 1st year, £605 p.a.; cost-of-living allowance, £107 p.a.; marriage allowance (if eligible), £50 p.a.; children's allowance (dependent and under age of 18), £30 p.a. 1st child, £24 p.a. each additional child. 2nd year: £632 10s. p.a.; cost-of-living allowance, £113 p.a.; marriage allowance (if eligible), £50 p.a.; children's allowance (dependent and under age of 18), £30 p.a. 1st child, £24 p.a. each additional child. 3rd year: £660 p.a.; cost-of-living allowance, £116 p.a.; marriage allowance (if eligible), £50 p.a. children's allowance (dependent and under age of 18), £30 p.a. 1st child, £24 p.a. each additional child. Hours of work: 8.50 a.m. to 1 p.m., 2 p.m. to 4 p.m., weekdays; 8.30 a.m. to 1 p.m., Saturdays. Vacation leave is granted at rate of ith of service.

Vacation leave is granted at rate of hth of service.

Steamship and rail fares will be paid to Salisbury, Southern Rhodesia, for successful applicants and half the cost of passages and fares of his wife and dependent children under 18 years of age. Subsistence allowance at Government rates and in similar proportion will be paid in respect of journey from port of disembarkation.

Appointment is subject to Civil Service Regulations, and successful applicants are required to pass a medical examination by a Southern Rhodesia Government Medical Officer.

Application forms and further information may be obtained from the Secretary. Rhodesia House, 429, Strand. London, W.C.2. and completed forms must be returned by the 19th November, 1948.

Canvassing will disqualify applicants. 676

SALOP COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of a SENIOR ASSISTANT ARCHITECT on A.P.T., Grade VI (£655 to £660 per annum).

Candidates must be Registered Architects and members of the R.I.B.A., and preference will be given to those who have had experience in the design and construction of schools. The successful applicant will be required to act as a Section Head, and some administrative ability will therefore be an advantage.

The appointment will be subject to one month's notice on either side; to the terms of the National Joint Council's Scheme of Conditions of Service, and to the provisions of the Local Government Superannuation Act. 1937. The successful applicant will be required to pass a medical examination.

tion.
Application forms may be obtained from the County Architect. Mr. A. G. Chant. F.R.I.B.A., 5. Belmont. Shrewsbury, to whom they must be returned, accompanied by copies of not more than three recent testimonials, not later than Tuesday, 23rd November, 1948.

G. C. GODBER,
Clerk 81 the Council.

Shrewsbury. October, 1948.

COUNTY OF LINCOLN—PARTS OF LINDSEY.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following
appointments on the permanent staff of the
Architect's Department:—
(a) SENIOR ASSISTANT ARCHITECT. Grade
VII 6535 to 6710

(a) SKNIGR ASSISTANT ARCHITECT. Grade VII. £635 to £710.
(b) ASSISTANT ARCHITECTS (3 vacancies). Grades V and VI. £520 to £660.
(c) ASSISTANT ARCHITECTS (2 vacancies). Grade V. £720 to £570.
(d) ASSISTANT ARCHITECT. Grade IV. £480 to £525.

Grade V. Eval 16 2017.

(d) ASSISTANT ARCHITECT. Grade IV, £480 to £525.

(e) SENIOR QUANTITY SURVEYOR. Grades VI and VII, £595 to £710.

(f) JUNIOR ENGINEERING DRAUGHTS-MAN. Grade II, £420 to £455.

The scales are those of the A.P.T. Division of the National Scheme of Conditions of Service. Candidates for appointments (a), 'b), (c) and (d) must be Recistered Architects, and preferably Associates of the R.I.B.A. and should have had good experience in the design and/or construction of modern buildings.

Candidates for (e) must be Chartered Quantity Surveyors, and should be capable of undertaking all stages of the work in the preparation of Specifications and Bills of Quantities, including preliminary estimates.

Candidates for (f) should be able to take off the County Council, and subject to the provisions of the Local Government Superannuation Act.

The successful candidates will be required to

visions of the Local Government Superannuation Act.

The successful candidates will be required to pass a medical examination, and all applicants must state whether to their knowledge they are related to Members or Senior Officers of the County Council.

Applications, stating age, qualifications, experience, and accompanied by copies of two recent testimonials, should be sent to A. R. Clark, A.R.I.B.A. A.M.T.P.I., County Architect, County Offices, Lincoln, not later than 22nd November. 1948.

GOVERNMENT OF NORTHERN IRELAND.
ASSISTANT ARCHITECTS.
Applications are invited for posts of Assistant
Architects, in the Ministry of Health and Local
Government. The appointments will be temporary,
but so far as can be foreseen will last for several

years.
Remuneration: Successful candidates will be remunerated within one of the following salary

remunerated within one of the following salary ranges:

Range A.—2700-£900 per annum inclusive, Range B.—£500-£750 per annum inclusive, and the commencing salary within these ranges will be fixed in each case according to qualifications and experience. A vacancy exists at Range A for Housing work, and vacancies at Range A for Housing, Planning and Public Health work.

Qualifications: Candidates must be Registered Architects by examination. In addition they should have experience in up-to-date house or hospital design and layout, and some aptitude for research into comparative standards of design and construction. In the case of a Planning appointment candidates must possess a recognized qualification in town planning or have good experience in town planning work.

Preference will be given to candidates who served with H.M. Forces during the 1914-18 or 1939-45 wars, providing the Ministry is satisfied that such candidates can, or within a reasonable time will be able to, discharge the duties efficiently.

that such extanges the quasetime will be able to, discharge the quaseefficiently.

Closing date for receipt of applications:
Applications, giving date of birth, full particulars
of qualifications and experience, and stating the
post applied for, together with copies of two
recent testimonials, must reach the Assistant
Secretary (Establishments), Ministry of Finance,
Stormont, Belfast, on or before the 15th
November, 1948.

BOROUGH OF EALING.

BOROUGH OF EALING.

Scretary (Establishments)
Stormont, Belfast, on or before the 19th
November, 1948.

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

APPOINTMENT OF ARCHITECTURAL

ASSISTANT.

Applications are invited for the permanent appointment of an Architectural Assistant, in appointment of the A.P.T. Division of the National Joint Council's Scales, at a salary commencing at £555 per annum and rising by annual increments to £560 per annum, plus £30 London weighting.

Applicants must be Associate Members of the Royal Institute of British Architects, preferably with Municipal experience.

The Council is unable to provide housing accommodation for the successful candidate.

Forms of application, together with conditions of appointment, may be obtained from the Borough Engineer and Surveyor, Town Hall, Ealing, W.5. and must be returned to me not later than the 10th November, 1948.

E. J. COPE-BROWN.

Town Clerk.

Town Hall, Ealing, W.5.

GOVERNMENT OF NORTHERN IRELAND.
MINISTRY OF FINANCE
ASSISTANT QUANTITY SURVEYORS.
Applications are invited for appointments as
Assistant Quantity Surveyor. Ministry of Finance,
Northern Iroland. The employment will be temporary, but so far as can be foreseen will last
for several years.

Northern Iroland. The employment will be temporary, but so far as can be foreseen will last for several years.

Qualifications: Candidates must be British subjects and Associates of the Royal Institution of Chartered Surveyors (formerly P.A.S.I., Quantities Section).

Preference will be given to ex-Service candidates of the 1914-18 or the 1939-45 wars, provided that they can or within a reasonable time will be able to fill the post efficiently.

Remuneration: The range of salary (consolidated) is £500-£750 per annum. Closing date: Applications, with copies of two recent testimonials, should be sent to the Assistant Secretary (Establishments), Ministry of Finance, so as to reach him on or before the 19th November, 1948.

DEPARTMENT OF AGRICULTURE FOR

Secretary (Establishments), Ministry of Finance, so as to reach him on or before the 19th November, 1948.

DEPARTMENT OF AGRICULTURE FOR SCOTLAND.

ARCHITECTS AND SURVEYORS (ASSISTANT GRADE), TEMPORARY, WITH PROSPECTS—ELEVEN VACANCIES.

Remuneration will be at a rate from £462 (age 25) to £735 per annum (headquarters Edinburgh or Glasgow). £443 (age 25) to £720 per annum (headquarters lesewhere in Scotland). Starting salary depends on age.

Age Limits: Candidates must have been born on or before 2nd August, 1919, and have attained age 25 by 1st October, 1948. Exceptionally well qualified candidates born between 2nd August, 1914, and 1st August, 1919, may also be considered. Qualifications: Registered Architect by examination or Professional Associate of the Roval Institution of Chartered Surveyors (Building Section or Quantities Section). Duties: Duties will include the preparation of drawings of buildings from field notes, designing of proposed works, the making of field surveys, preparation of maps of land and the preparation of schedules and specifications, arranging of contracts for execution of works. Tenure: Appointments will in the first instance be temporary and non-pensionalle, but there will later be an onen competition for established pensionable posts.

Apply quoting J.425/48 (K Section). Ministry of Labour and National Service, Technical and Scientific Register, York House, Kingsway, London, W.C.2.

COUNTY BOROUGH OF MERTHYR TYDFIL. SCHOOLS ARCHITECTURAL ASSISTANT. Applications are invited for the appointment of a Schools Architectural Assistant, on the permanent staff in the Department of the Borough Architect, Engineer and Surveyor, at a salary in accordance with A.P.T., Grade VI (£595 to £660 per annum). Candidates must have had experience in the design and construction of new school buildings and canteens, and the adaptation and extension of existing schools, and in the preparation of specifications, bills of quantities and estimates in connection therewith, and should be an Associate of the Royal Institute of British Architects or have reached a similar standard. The tenancy of a Council house will be made available to the successful applicant. Applications, endorsed "Schools Architectural Assistant," stating age, qualifications and experience, together with copies of three rocent testimonials, must be delivered to the undersigned not later than Thursday, the 18th November, 1948.

The appointment will be subject to the provisions of the National Scheme of Conditions of Sorvice and the Local Government Officers' Supersanusation Act, 1957, and the successful candidate will be required to pass a medical examination. The appointment will be a time and and the conditions of the support of the supersanusation and the successful candidate will be required to pass a medical examination. The appointment will be a disqualification.

EDWARD ROBERTS Clerk.

Town Hall, Merthyr Tydfil. 27th October, 1948.

METROPOLITAN BOROUGH OF HOLBORN.
HOUSING AND PLANNING DEPARTMENT.
Applications are invited for the appointment

METROPOLITAN BOROUGH OF HOLBORN.
HOUSING AND PLANNING DEPARTMENT.
Applications are invited for the appointment of:

(a) CHIEF ASSISTANT ARCHITECT.
Salary Grade, A.P.T., VIII, commencing at £685
p.a. (consolidated), rising by three annual increments of £25 to a maximum of £760, plus London weighting (at present £30 p.a.).
Candidates must be qualified Architects, and are required to have had experience in the preparation of schemes for multi-storey flats, conversion of houses into flats, and other general architectural work, including preparation of specifications, estimates, and supervision of works in progress. Applicants should also have had some administrative experience in a Local Government Architect's or similar Department. Planning experience would be an advantage.
(b) SENIORA ASSISTANT ARCHITECT.
Salary Grade, A.P.T. VVI (commencing salary within these Grades, according to qualification and experience): Grade V, £250×£15 (2) and £20 to maximum of £570 p.a.; Grade VI, £55×£20 (2) and £25 to maximum of £560 p.a. (plus London weighting in each case—now £30 p.a.).
Candidates should be suitably qualified Architects, having experience in the preparation of sketch plans, working and detail drawings of finations and estimates.

C. F. B. CHAPPLE.
Town Hall, 197, High Helborn, W.I.

METROPOLITAN BOROUGH OF HACKNEY.
BOROUGH ENGINEER AND SURVEYOR'S

Applications are invited for the appointment of Architectural Assistants on the permanent and temporary establishments, at salaries in accordance with the following grades of, and subject to, the Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative. Professional, Technical and Clerical Services, plus London weighting allowance.

Grade VI. A.P. and T. Division (£595 p.a., rising to £660 p.a.).

Administrative, Professional, Technical and Clerical Services, plas London weighting allowance.

Grade VI, A.P. and T. Division (£595 p.a., rising to £660 p.a.).

Grade VII, A.P. and T. Division (£635 p.a., rising to £660 p.a.).

Grade VIII, A.P. and T. Division (£635 p.a., rising to £710 p.a.).

Grade VIII, A.P. and T. Division (£635 p.a., rising to £760 p.a.).

Candidates must be Associates of the Royal Institute of British Architects, and preference will be given to those with a wide experience of Municipal housing work.

Applicants are advised that the Council is unable to provide any housing accommodation for the successful candidates.

The appointments will be subject to:—

(i) In the case of permanent appointments, to the provisions of the Council's Superannuation Acts, to the successful candidates passing a medical examination, to the Council's regulations relating to staff appointments, and to termination by one month's notice on either side.

(ii) In the case of the temporary appointments, and to termination by one month's notice on either side.

Applications in writing, on forms to be obtained from the undersigned upon receipt of a stamped addressed envelope, must be received not later than first post on the 25th November. 1948, endorsed "Architectural Assistanta." Candidates should state on the application forms the salary grade for which they wish their application to be considered, and also whether they apply for permanent and/or temperary appointments.

DUDLEY SORRELL,

DUDLEY SORRELL, Town Clerk.

Town Hall, Hackney, E.8.

SURREY COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments:—

ASSISTANT ARCHITECT (Grade VI).
Commencing salary £595, rising by annual increments of £20/£25 to a maximum of £660, plus London allowance of £30.

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

perience in the design and construction of modern buildings.

It is desirable that applications should be accompanied by a small sample of the applicant's

work.
ASSISTANT QUANTITY SURVEYOR (Grade III).

ASSISTANT QUANTITY SURVEYOR (Grade III).

Commencing salary £450, rising by annual increments of £15 to a maximum of £495 per annum, plus London allowance of £30.

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

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect. Surrey County Council, County Hall, Kingston-upon-Thames, not later than the 20th November, 1948.

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

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

DUDLEY AUKIAND,

Clerk of the Council.

County Hall, Kingston-upon-Thames 690

CUMBERLAND, COUNTY COUNCIL.

County Hall, Kingston-upon-Thames 690

CUMBERLAND COUNTY COUNCIL.

PLANNING ASSISTANT.

Applications are invited for the above appointment in the Department of the County Planning Officer. The commencing salary for this post will be within Grade VI of the National Scales (£955-£660 per annum). A car allowance will be paid in accordance with the Council's scale, subject to variation from time to time, but at present a standing charge of £80 per annum, plus a mileage allowance, and subsistence according to the National Charter scales. The appointment is subject to the Local Government Superannuation Act, 1937, and the successful candidate will be required to undergo a medical examination. The appointment will be terminable by one month's notice in writing on either side. Applicants must be Members or Associate Members of the Town Planning Institute, and a qualification in Architecture or in Engineering will be an advantage. The commencing salary on the grade will be determined according to the successful candidate's previous experience. Applicants must be fully conversant with the Town and Country Planning Acts and Orders made thereunder, and be fully conversant with the Town and Country Planning Acts and Orders made thereunder, and be fully conversent with the Town and Country Planning Officer, Citadel Chambers, Carlisle, to whom completed applications, accompanied by a copy of one testimonial and the names and addresses of two referees, and endorsed "Planning Assistant," should be forwarded, using the prescribed form, to arrive not later than first post on Monday, 22nd November, 1948.

G. N. C. SWIFT.

Clierk of the County Council.

The Courts, Carlisle.

The Courts, Carlisle.

STEVENAGE DEVELOPMENT CORPORATION. Applications are invited for the post of DEPUTY CHIEF, in the Deportment of Architecture and Planning. Candidates must be fully qualified Architects and have specialized in housing. The salary offered is on a range £1.250-£1.500 per annum, commencing salary according to experience. Housing accommodation available. The selected candidate will be required to contribute to a Local Government Superannuation Fund or an Insurance Schome.

Forms of application may be obtained from the Chief Administrative Officer, Aston House, near Stevenage, Herts., and should be returned completed by applicants not later than 20th November, 1948.

HAILSHAM RURAL DISTRICT COUNCIL.
Applications are invited for the appointment
ARCHITECTURAL ASSISTANT, at a salary

Applications are invited for the appointment of ABCHITECTURAL ASSISTANT, at a salary of £520 per annum.

The appointment is to be temporary, but for a period of not leas than three years, subject to satisfactory service, to the provisions of the Local Government Superannuation Act, 1937, and to one mouth's notice on either side.

Applicants should preferably have passed the Final examination of the Royal Institute of British Architects, and must be thoroughly experienced in housing work. It will be an advantage if the applicant can provide a motor car for the performance of his duties, an allowance for which will be paid on the Council's scale.

Applications, appropriately endorsed, stating age, qualifications, experience, and past and present appointments, accompanied by copies of three recent testimonials, must reach the undersigned not later than Monday, 22nd November, 1948.

Canvassing, directly or indirectly, will discarded the contraction of t

invassing, directly or indirectly, will dis-

A. CARR, Clerk to the Council Cortlandt, Hailsham.

NORTHERN POLYTECHNIC, HOLLOWAY,
LONDON, N.T.
The Governing Body invite immediate applications for the following appointments to the fulltime staff of the Department of Architecture,
Surveying and Building:

(a) SENIOR LECTURER IN TOWN
PLANNING.

(a) SENIOR LECTURER IN TOWN PLANNING.
Applicants are expected to be members by examination of the Town Planning Inatitute, and the Lecturer appointed will be required to organize and give lectures to senior students in the Day and Evening Schools of Architecture.
(b) STIDHO MASTER IN ARCHITECTURAL DESIGN.
Applicants must have passed the Final examination for Associateship R.I.B.A., and preferably have completed a full-time course of study in a Recognized School.
(c) TEACHER OF BUILDING SUBJECTS, INCLUDING BUILDING CONSTRUCTION, GEOMETRY, ETC.
The Teacher appointed will be primarily required to assist in the preparation of students for the Examinations of the Royal Institution of Chartered Surveyors and the Institute of Builders. The salaries in respect of the above appointments will be in accordance with the Burnham Scale for technical teachers. Members of the staff of the Department are afforded reasonable opportunities for private practice should they so desire.

desire.

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

R. H. CURRELL, Clerk

SOMERSET COUNTY COUNCIL.

APPOINTMENT OF CHIEF QUANTITY
SURVEYOR.

Applications are invited for the appointment of Chief Quantity Surveyor in the Architect's Department.

The appointment, which is subject to the Conditions of Service and Scale of Salary of the National Joint Council, will be made within Grade VIII of the A.P. and T. Division (£685-£760.per annum); commencing salary according to experience. Candidates must have passed the Final examination of the Royal Institute of Chartered Surveyors (Quantities Section), and be fully experienced in the preparation of Bills of Quantities, Specifications and Estimates, and the settling up of Final Accounts. Candidates must particularly be experienced in the control and administration of a programme of building work being undertaken by the staff of the Quantity Surveying Section of the Department. Service with a Local Authority would be regarded as an advantage.

The appointment is on the established staff, subject to the provisions of the Local Govern-

with a Local Authority would be regarded as an advantage. The appointment is on the established staff, subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

The County Council is unable to assist at the present in offering housing accommodation, but an allocation of a number of houses for 1949 has recently been received from the Ministry of Health for Staff housing purposes.

Applications in sealed envelopes, endorsed "Chief Quantity Surveyor," stating age, qualifications and details of experience, and accompanied by copies of three testimonials, must be delivered to the undersigned on or before Thursday, the 18th November, 1948.

Canvassing will disqualify, and applicants must state any relationship to any member or senior official of the Council.

R. O. HARRIS, F.R.I.B.A.

R. O. HARRIS, F.R.I.B.A.. County Architect.

Park Street, Taunton. 28th October, 1948.

CITY OF STOKE-ON-TRENT.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointment on the Establishment Staff of the City Architect's Department:

ONE ASSISTANT ARCHITECT (RDUCATION). Salary A.P.T., Div., Grade VI, £596-2660

TION). Salary A.P.T., Div., Grade v1, 2002.

2660.

The selected applicant will be required to pass a medical examination, and the appointment will be subject to the following:

(1) One calendar month's notice on either side.

(2) The provisions of the Local Government Superannuation. October, 1937.

(3) The National Scheme of Conditions of Service for Local Government Officers.

Applicants must be Associates of the Royal Institute of British Architects, and have had experience in the planning, design and construction of buildings for Educational purposes, and possess full knowledge of the Building Regulations and standards for School premises of the Education Act, 1944.

Act, 1944.
Applications, giving date of birth, particulars of training, qualifications, details of experience, present and previous appointments and salary, with copies of two recent testimonials and the names and addresses of two persons to whom reference may be made, should be received by J. R. Piggott, F.R.I.B.A., City Architect, City Architect's Department, Kingsway Chambers, Kingsway, Stoke-on-Trent, endorsed "Assistant Architect (Education)," not later than Friday, 12th November, 1948.

HARRY TAYLOR, HARRY TAYLOR, Town Clerk.

Town Hall, Stoke-on-Trent. 21st October, 1948.

Applica appointm Engineer The sa A.P.T. I Scales, p Applica Boyal II quivaler Forms Borough returned on Mon Canvas be a dis

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BOROUGH OF SOUTHGATE.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.
APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.
Applications are invited for the above-mentioned appointment in the Department of the Borough Engineer and Surveyor.
The solary will be Grade V (£529-£570) of the AP.T. Division of the National Joint Council Seales, plus the appropriate London weighting. Applicants must be Associate Members of the Boyal Institute of British Architects or hold an equivalent qualification.
Forms of application may be obtained from the Borough Engineer and Surveyor, and should be returned to the undersigned not later than 9 a.m. on Monday, the 22nd November, 1948.
Canvassing, either directly or indirectly, will be a disqualification.
GORDON H. TAYLOR,
Town Hall, Palmers Green, London, N.13.
28th October, 1948.

WILTSHIRE COUNTY COUNCIL.

Town Hall, Palmers Green, London, N.13.
28th October, 1948.

WILTSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited from qualified Members of the Royal Institute of British Architects for the appointment of CHIEF ASSISTANT ARCHITECT, in the County Architect's Office. The salary will be in accordance with Grade VIII of the National Scales, viz., £685 per annum, rising to a maximum of £760 per annum.
The appointment is superannuable, and subject to medical examination, and terminable by one month's notice on either side.
Applications, on forms to be obtained from the County Architect, must be sent to the undersigned within two weeks of the date of the publication of this advertisement.
P. A. SELBORNE STRINGER.
Clerk of the County Council.
County Hall, Trowbridge.
2nd October, 1948.

GLOUCESTERSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments:—
(a) ASSISTANT ARCHITECTS.
Candidates should be qualified members of the B.I.B.A., with good general experience in design and construction of public buildings, including schools.
A.P. and T. Grade V. and eligible for promotion

A.P. And T., Grade V, and eligible for promotion to A.P. and T., Grade VI, according to experience. (b) ARCHITECTURAL ASSISTANTS. Candidates should have passed the Intermediate examination of the R.I.B.A., with general experience in design and construction.

A.P. and T., Grade IV.

(c) JUNIOR ARCHITECTURAL ASSISTANTS. Salary in accordance with experience. A.P. and T., Grade IV.

Appointments will be subject to the Local Government Superannuation Act, 1937, and candidates, before appointment, will be required to pass a medical examination.

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

Applications, stating (1) name and address, (2) married or single, (3) age, (4) qualifications, (5) present position, salary and date of appointment, (6) previous positions with dates and salaries. (7) particulars of experience, and accompanied by copies of three recent testimonials, should be sent to S. E. Urwin, F.R.I.B.A., County Architect, Shire Hall, Gloucester, not later than Friday, the 19th November, 1948.

GUY H. DAVIS.

CUMBERLAND COUNTY COUNCIL.

36th October, 1948.

26th October, 1948.

CUMBERLAND COUNTY COUNCIL.
Applications are invited for the appointment of
a CLERK OF WORKS, to supervise the erection
of a new Secondary School at Wigton.
The inclusive wage will be £9 9s. per week.
Applicants ahould have good practical knowledge of all trades and experience in the erection
of steel-frame buildings, and should be able to
measure up work.

measure up work.

The appointment will be temporary and subject to four weeks' notice on either side.

Applications, stating age, present employment, qualifications and experience, together with copies of three testimonials, should be delivered to John H. Haughan, F.R.I.B.A., County Architect, 15, Portland Square, Carlisle, not later than 22nd November, 1948.

G. N. C. SWIFT,

Clerk of the County Council.

Catalogs 1948.

October, 1948.

BRANDON AND BYSHOTTLES URBAN DISTRICT COUNCIL.

ARCHITECT'S DEPARTMENT.

Wanted, ARCHITECTURAL ASSISTANT (Male or Female). Salary, per N.J.C. Scale Misc., Grade III. £375 to £420, increments of £15.

An opportunity exists for the successful applicant to obtain all-round experience in housing and planning relating to major developments. Candidates must disclose in their applications whether, to their knowledge, they are related to any member of the Council or Senior Officer, and failure to disclose this information will be a discussion. and if appointed will be liable to dismissal without notice.

Applications, together with the names of two referees, should be ferwarded to F. Hedley, A.R.I.B.A. Chartered Architect, Council Offices, Langley Moor, Durham, not later than 12th November, 1948.

A. A. LUXMOORE,

A. A. LUXMOORE, Clerk to the Council

SKIPTON URBAN DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment, at a salary within Grade IV of the National Scales (£480-£525 per annum). The commencing salary of the successful candidate will be determined according to experience and qualifications.

Housing accommodation will be made available if required.

Housing accommodation will be made available if required.

The appointment will not be made to the permanent staff, but it is anticipated that the Council's Housing Programme will continue for at least 5 years.

Applications, on forms to be obtained from the unsersigned, and giving the names and addresses of three persons to whom reference may be made, should be sent, in an envelope endorsed "Architectural Assistant," so as to be received by the undersigned not later than Monday, 22nd November, 1948.

K. B. ROBINSON, B.Sc.(Eng.)

K. B. ROBINSON, B.Sc.(Eng.), A.M.Inst.C.E., Engineer and Surveyor.

Town Hall, Skipton.

29th October, 1948.

CRICKLADE AND WOOTTON BASSETT

RURAL DISTRICT COUNCIL.

ARCHITECT AND SURVEYOR.

Applications are invited for the above appointment from persons possessing Local Government

ment from persons possessing Local Government experience. Candidates should be Members of the Royal Institute of British Architects. Corporate Members of the Institution of Civil Engineers, or possess equivalent qualifications. There is a possibility of housing accommodation being available in the near future, if required. The appointment will be subject to the provisions of the Local Government Officers' Superannuation Act, 1937.

Applications, stating salary required, age, qualifications, and details of present and past appointments, should reach the undersigned, together with copies of three recent testimonials, not later than 30th November, 1948, endorsed "Architect and Surveyor."

than 30th November, 1948, endorsed "Architect and Surveyor."

W. J. HOSIER

Deputy Clerk of the Council.

Council Offices, Wootlon Bassett, Wilts.

5th November, 1948.

BELFAST COUNTY BOROUGH COUNCIL

APPOINTMENT OF HOUSING ARCHITECT.

Applications are invited for this position from Fellows and Associates of the Royal Institute of British Architects, who have wide experience of general architectural practice and special knowledge of housing architecture.

The salary attaching to the position is within the range £1,500-£1,750 per annum, the commencing figure to be determined having regard to the experience and suitability of the person appointed.

The appointment will be full time, and the person appointed.

The appointment will be full time, and the person appointed will be required to carry out such work in connection with the design and construction of houses and the supervision of houses and the supervision of housing schemes from the layout stage to the completion of the houses as may be assigned to him.

Candidates must not be more than 45 years of

completion of the houses as may be assigned to him.

Candidates must not be more than 45 years of age on the date of appointment, which it is anticipated will be made by the Council on the 3rd January: 1949. This condition shall not apply to officers of the Council.

The person appointed will be required to reside inside the County Borough.

Preference will be given to ex-Service candidates possessing the required qualifications.

Applications, setting out the candidates' age, qualifications and experience, and enclosing the names of three referees, should reach the Town Clerk, City Hall. Belfast, Northern Ireland, not later than 12 noon on Saturday, 20th November, 1948.

Canvassing in any form, oral or written, direct or indirect, will if proved to the satisfaction of the Council disqualify a candidate for appoint-

JOHN DUNLOP, Town Clerk City Hall, Belfast.

City Hall, Belfast.

Town Clerk.

NORTHUMBERLAND COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.
Applications are invited from persons with suitable qualifications for the appointments of (a) ONE SENIOR PLANNING ASSISTANT, at a salary in accordance with Grade A.P.T., VI (£596-£660): and (b) ONE PLANNING ASSISTANT, at a salary in accordance with Grade A.P.T., III (£450-£495) of the National Joint Council's Scale of Salaries. Candidates for appointment (a) should be Members of the Royal Institute of British Architects, the Royal Institute of Chartered Surveyors or the Institute, and possess recent practical experience in the preparation and administration of planning schemes and in the control of development.

Both appointments (which are whole-time ones) will be subject to the National Scheme of Conditions of Service, to the provisions of the Local Government Superanuation Act, 1937, and to three months' notice on either side, and the successful candidates will be required to pass a medical examination to the Council's satisfaction.

Applications, on forms to be obtained from the undersigned, must be submitted not later than the 26th November, 1948.

E. P. HARVEY.

Clerk of the Count, Council.
County Hall, Newcastle-upon-Tyne, 1.

CITY OF BATH.

CITY ENGINEER'S DEPARTMENT.

ARCHITECTURAL SECTION.

Applications are invited for the appointment of a GENERAL ARCHITECTURAL ASSISTANT (Perm nent), at a salary of 2450-2495 or 2460-2525 per annum (A.P.T., Grade III or IV), according to qualifications and experience.

Candidates should be Associate Members of the Royal Institute of British Architects or hold equivalent qualifications. Preference will be given to candidates with experience in the design and supervision of housing estates or domestic buildings.

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

Applications, stating age, qualifications and experience, together with copies of two recent testimonials, should be sent to the City Engineer, Guildhall, Bath, not later than Saturday, 13th November, 1948.

JARED E. DIXON, Town Clerk. Guildhall, Bath. 28th October, 1948.

EAST SUFFOLK COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following posts
in the County Architect's Department:—
(a) GRADE A ASSISTANT ARCHITECTS.
P.T., Grades V and VI. Consolidated salary,

A.P.T., Grades V and VI.

£520-£660.
(b) GRADE B ASSISTANT ARCHITECTS.
A.P.T., Grades III and IV. Consolidated salary,

2520-2660.

(b) GRADE B ASSISTANT ARCHITECTS.
A.P.T., Grades III and IV. Consolidated salary,
2450-2525.

The commencing salary in the grades will be fixed according to the qualifications and experience of the candidate.

Applicants for appointment (a) must be Registered Architects, and preferably Associates of the R.I.B.A. The work to be dealt with is that normally carried out by a Local Authority. Candidates must be quick and accurate draughtsmen, capable of carrying a job through in all its stages, and with a sound knowledge of design, building construction and specifications, and must have had at least five years' office experience, excluding arcticles, etc.,
Applicants for appointment (b) must be Registered Architects, and preferably Members of the R.I.B.A. They must be quick and accurate draughtsmen, fully conversant with h in. scale, half inch and full size details for all types of buildings normally dealt with by a Local Authority, and have a good knowledge of design, construction and specifications.

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

Applications, stating age, qualifications, and full details of previous experience, accompanied by copies of three recent testimonials, should be sent to E. J. Symcox, F.R.I.B.A., County Architect, County Hall, Ipswich, not later than 20th November, 1948.

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

Clerk of the Council.

County Hall, Ipswich.

County Hall, Ipswich.

County Hall, Ipswich.

COUNTY COUNCIL OF INVERNESS.
COUNTY ARCHITECT AND PLANNING
OFFICER'S DEPARTMENT.

ASSISTANT PLANNING OFFICER.
Applications are invited for the appointment of
Assistant Planning Officer, in the County Architect and Planning Officer's Department. Consolidated salary scale, A.P.T., V. £250 by £15
to £570 per annum. The appointment will be subject to the provisions of the Local Government Superannuation (Scotland) Act, 1937.
Candidates should possess a recognized architectural or engineering qualification, and preference will be given to those who have qualified for Associate Membership of the Town Planning Institute.

Applications and copies of three recent testimonials should be lodged with the undersigned within fourteen days of the publication of this advertisement.

R. WALLACE,

advertisement.

R. WALLACE,

County Clerk.

County Buildings, Ardross Street, Inverness. 709

NORTH-WEST METROPOLITAN REGIONAL HOSPITAL BOARD.
ARCHITECT'S DEPARTMENT.
Applications are invited for the appointment of THREE PRINCIPAL ASSISTANT ARCHITECTS, in the Department of the Architect to the Board, at an inclusive salary of £400×255-£990 per annum. Applicants should be Associates of the Royal Institute of British Architects, and must possess wide experience of hospital design and construction in all branches, i.e., Acute and Chronic Sick Hospitals, Sanatoria and Mental Hospitals. Good administrative ability is essential. Hospitals.

essential.

The three appointments will be subject to the provisions of the National Health Service (Superannuation) Regulations, 1947. and will be terminable by one month's notice.

Applications, giving details of experience together with the names of three referees, should be addressed to The Secretary, North-West Metropolitan Regional Hospital Board, 11a, Portland Place, W.1, to arrive not later than 25th November, 1948.

COUNTY BOROUGH OF BURTON-UPON-TRENT.

APPOINTMENT OF ARCHITECTURAL
ASSISTANT.
APplications are invited for the above-mentioned appointment, in the Architectural Office of the Burough Surveyor, at a salary of £480 per annum, subject to the National Scheme of Conditions of Service relating to Local Government Officers, and in accordance with Grade IV, A.P.T. Division.
A flat will be made available to the selected candidate.

A flat will be made available to the selected candidate.

Applicants should preferably be Corporate Members of the R.I.B.A., but persons studying for the R.I.B.A. Final examination will be considered. A good knowledge of building construction and quantities is essential.

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

Applications, in sealed envelopes endorsed "Architectural Assistant," stating age, qualifications and experience, and accompanied by copies of not more than three recent testimonials, must be delivered to me not later than 10 a.m. on Monday, the 22nd November, 1948.

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

H. BAILEY CHAPMAN,
Town Hall, Burton-upon-Trent.

H. BAILEY CHAPMAN,
Town Hall, Burton-upon-Trent.
2nd November, 1948.
CITY AND COUNTY OF KINGSTON-UPONHULL.
CITY ARCHITECT'S DEPARTMENT.
Applications are invited for Assistant ARCHITECTS. A.P.T., Grade III, 2450-2495 per annum.
Applicants abould not be over 40 years of age (except in the case of applicants who are serving or have served in the Forces).
The appointment will be subject to one month's notice on either side, to the National Scheme of Conditions of Service, and the Local Government Superannuation Act, 1937.
Applications, on forms which can be obtained from the undersigned, are to be returned not later than 14 days after the insertion of this advertisement.
Any applicant canvassing a member of the Council or a Chief Official will be disqualified.
ANDREW RANKINE, A.R.I.B.A.,
Guildhall, Kingston-upon-Hull.

CITY AND COUNTY OF THE CITY OF

Guildhall, Kingston-upon-Hull.

Gity Architect.

City Architect.

City Architect.

City AND COUNTY OF THE CITY OF

LINCOLN.

APPOINTMENT OF ARCHITECTURAL STAFF.

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

(a) SENIOR ARCHITECTURAL ASSISTANT.

(b) ARCHITECTURAL ASSISTANT. Grade IV (£480-£255).

ARCHITECTURAL ASSISTANT. Grade III

(£460-£525).

(c) ARCHITECTURAL ASSISTANT. Grade III (£450-£456).

The scales are those of the A.P. and T. Division of the National Scales of Salaries.
Candidates for appointment (a) should be Associate Members of the R.I.B.A., and have had experience in the design and construction of school building. Candidates for appointment (b) must be Registered Architects. Candidates for appointment (c) should have passed the Intermediate examination of the R.I.B.A.

The appointments will be subject to the National Scheme of Conditions of Service, to the provisions of the Local Government Superannuation Act. 1937, and to one month's notice on either side. The successful candidates will be required to pass a medical examination.

Application forms may be obtained from A. Adlington, A.M.I.C.E.. City Engineer and Surveyor, Silver Street, Lincoln, and should be returned to him in envelopes endorsed "Architectural Appointment." so as to be received not later than the 20th November, 1948.

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

(Sgd.) J. H. SMITH.

Town Clerk.

Corporation Offices, Lincoln. 30th October, 1948.

Tenders for Contracts

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

PEMBROKESHIEE COUNTY COUNCIL
HAVERFORDWEST MODERN SECONDARY
SCHOOL (NEW).
Building Contractors desirous of Tendering for the Erection of the above School (approx. 5-Form Entry) are requested to submit their applications to Walter Barrett, M.B.E., A.R.I.B.A., County Architect, County Offices, Haverfordwest, Pembrokeshire.

General Conditions and Bills of Quantities will be supplied on receipt of £5 5s. deposit, returnable upon receipt of a bona-fide Tender or the return of the Bill. Drawings, etc., can be inspected at the office of the County Architect during the usual working hours.

No Tender will be considered unless submitted in the endorsed envelope provided for the purpose and the Council does not bind itself to accept the lowest or any tonder received. Contracts for the following works in connection with this Project have now been let:—
(1) Steelwork;
(2) Preliminary Site Clearance;
(3) Provision of Works Service Road. Contractors will be required to provide proof

that they are in a position to provide the necessary labour to carry out the works.

Last day for receipt of Tender is first post, Monday, December 6, 1948.

D. T. JONES,

Clerk to the Education Committee.

County Offices,

Haverfordwest, Pembs.

30th October, 1948.

Partnerships and Financial

6 lines or under, 10s.; each additional line, 1s. 6d.
QUANTITY SURVEYOR, with small but growing practice, would like to meet another in similar position, or one who contemplates free-lancing, with a view to combining. Member of R.I.C.S. preferred. Box 57.

Architectural Appointments Vacant 4 lines of under, 5s.; each additional line, 1s. 6d
A RCHITECTURAL ASSISTANTS required immediately; salary according to qualifications and experience. Johns & Slater F./A.B.I.B.A., 8, Lower Breck Street, Ipswich ch additional line, 1s. 6d.

REQUIRED ARCHITECT'S ASSISTANT in Manchester area; should be qualified; state salary required and experience. Box 532.

SHOPFITTING DRAUGHTSMEN; state whether experience mainly architectural, building or design; also age and salary. A. Edmonds & Co., Ltd., Constitution Hill, Birningham, 19.

mingham, 19.

JUNIOR ARCHITECT'S ASSISTANT, or Architectural Draughtsman working up for examinations, required for Country practice in the Midlands. Apply, stating age, previous experience, and salary required. Box 579.

JUNIOR ARCHITECTURAL DRAUGHTS.

MAN required for industrial concern in South-Eastern England. Write to Box 585, stating qualifications.

qualification

A SSISTANT required for senior position in a Bank's Architect's office in London; age about 40; preferably an Associate of B.I.B.A.; must be thoroughly experienced in the design and construction of office buildings and war damage rep irs; good prospects and permanency for suitable applicant. Box 611.

ENIOR and Intermediate ARCHITECTURAL ASSISTANTS required immediately; salary according to experience and qualifications. Farmer and Dark, Chartered Architects, Terminal House, Grosvenor Gardens, London, S.W.1. 620

TEMPORARY ARCHITECTURAL or SUR-VEYING ASSISTANTS required in London office; must be quick and accurate draughtamen, with experience of measuring existing buildings. Write, stating age, experience, and salary re-quired, Box 623.

A RCHITECT, fully qualified, wanted by large firm Midland builders, preferably with experience of schools, public and industrial buildings; good opening for a keen man; permanent pensionable appointment; application in confidence. Westwood Morris, solicitors, Waterloo Street, Birmingham.

Street, Birmingham.

ENIOR ARCHITECTURAL ASSISTANTS are required to fill vacancies for permanent pensionable positions in the Head Office of the Premises Department, Ind. Coope & Allspop, Ltd., Burton-on-Trent. Applicants should be either Associates of the Royal Institute of British Architects or trained at a recognized School of Architects of Architects of Architects of School of Architects of School of Architects of School of Architects of Architects of School of Architects of Architects of School of Architects of Arch

A RCHITECTURAL ASSISTANT required by North-East Coast Brewery; age 25 to 35; must have sound training and experience; knowledge of licensed work desirable, but not essential. Full particulars and salary required to Box 683.

VACANCY for experienced ARCHITECT'S ASSISTANT; preferably qualified; living accommodation available. Gotch, Saunders & Surridge, F./A.R.I.B.A., High Street, Kettering, Telephone 3165/6.

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Telephone 3165/6.

JUNIOR ARCHITECTURAL ASSISTANT or DRAUGHTSMAN required immediately by firm of Croydon Architects. Write, stating age, experience, and salary required, to Box 665.

ARCHITECT'S ASSISTANT required; good draughtsman, and experience in specifications; work varied and interesting; salary 240 to £500, according to qualifications; good prospects. Apply G. H. Herring, L.R.I.B.A., 21, Milton Road, Harpenden, Herts.

RAUGHTSMAN (Junior or Improver) required in Architects' and Surveyors' office, Midlands; knowledge of preparing working drawings and specifications an advantage. Apply, with details of experience, references, and salary required, to Box 691.

ings and specifications an advantage. Apply, with details of experience, references, and salary required, to Box 691.

ARCHITECTURAL DRAUGHTSMAN for Architect's department of an industrial undertaking in Birmingham. Write age, qualifications and experience, to Box 699.

ARCHITECTURAL ASSISTANT, used to General Practice, required for small busy office, Sheffield. Particulars of training and salary to Box 700.

ARCHITECT'S ASSISTANT required; Intermediate standard; some office experience essential; salary according to experience. Fairtlough & Morris, F./A.R.I.B.A., 8/9, Long Acre, W.C.2. TEM. 9970.

ARCHITECT'S ASSISTANT required for Construction Department, large multiple firm, Birmingham office; good progressive position, with superannation and five-day week, offered to keen, energetic, and capable man; state age, experience, and salary required. Box 703.

TWO first-class fully qualified SENIOR ASSISTANTS (A.R.I.B.A.) required by Architect in West End, who is engaged on important contracts; salary offered, £650 per annum; applicants must have had all-round experience in construction, design, office and site supervision. Write, stating full particulars, Box 597.

ARCHITECTURAL DRAUGHTSMAN required. Salary approximately £6 per week. Apply F. R. S. Yorke, E. Rosenberg, C. S. Mardall, 2, Hyde Park Place, W. 2. 722

ARCHITECTURAL DRAUGHTSMAN required. Experience in the preparation of Estate Layouts and knowledge of Town Planning Act essential. Box No. 442, c/o George Murray (Advertising) Ltd., 184, Strand, London, W.C.2.

W.C.2.

Note of two Architectural Assistants required with experience in working drawings and running contracts. Write, stating age, qualifications and salary required, to Houchin, Harrison & Stevens, 8 & 9, Great James Street, Bedford Bow, W.C.1.

JUNIOR ASSISTANT required in busy Weet End Office. Good prospects. Apply, stating age, experience and salary required, to J. Stanley Beard, Bennett & Partners, 101-3, Baker Street, W.1.

Architectural Appointments Wanted

Architectural Appointments Wanted

A. B.I.B.A. (Female) requires progressive peeform of conditions of the conversion, and the conversion, multi-storey flats, surveys, sketch schemes, working drawings, details, specifications, etc.; would welcome a chance to work on non-domestic jobs; salary about £520 p.a. Box 197.

WELL-EDUCATED young Man (24), 4 years' experience as Draughtsman, recently in Royal Engineers, desires position in Kingston-on-thames or Birmingham districts. Details from Box 198.

Box 198.

ARCHITECT and SURVEYOR (age 49)
desires permanent responsible position; Midlands area preferred; housing, licensed premises,
hospitals. factories, working drawings, specifications, bills of quantities, final accounts; general
supervision; salary £650 p.a. Box 199.

A SHSTANT ARCHITECT, A.R.I.B.A.,
B.Arch., 5 years' 1st class training, 2 years
best London offices, seeks post where day-to-day
site and building experience possible; suggest
Assistant Clerk of Works-cum-Assistant Architect
on site; thorough, painstaking; salary by arrangement. Box 200.

ment. Box 200.

A PPLICANT, with good experience and references, seeks employment as CLERK OF WORKS or supervising officer, with a progressive firm of Building Contractors or Interior Decorators. Box 201.

Other Appointments Vacant

times or under. 5s.: each additional line, 1s. 6d.

A SSISTANT DESIGNER required by wellacturers: must be proficient in the preparation
of Interior perspectives in water-colour. State
age. experience, and salary required, to Box 534.
SHOPFITTING TECHNICAL REPREsentative; Midlands area, living Birmingham; state experience and age. A. Romonds
& Co.. Ltd., Constitution Hill, Birmingham, 19.

SHORTHAND TYPIST required for Architect's office. Please 'phone or send details and salary required to C. Edmund Wilford, A.R.I.B.A., Eagle House, 109, Jermyn Street, London, S.W.I. (Whitehall 8065 and 6694.)

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٧t . 1s. 6d. TLOOR COVERING.—Required a SERVICE REPRESENTATIVE to advise customers on laying and planning floors, to be covered with P.V.C. tiles. Send full details of past experience and positions held. Write Box 690, Dorland Advertising, 18-20, Regent Street, S.W.I. 685

NDUSTRIAL DESIGNED

tising, 18-20, Regent Street, S.W.1.

NDUSTRIAL DESIGNER, experienced at producing working drawings, preferably with engineering knowledge, required by Gaby Schreiber & Associates, 7, Hobart Place, London, S.W.1.

Services Offered

Thereof to the control of the contro

DUPLICATING.—Specifications, Bills of Quantities, etc., expertly typewritten or duplicated; moderate charges; qualified. Miss Stone, 6, Duke Street, S.W.1. Whitehall 9662, 1667

EXPERIENCED SHORTHAND TYPIST seeks post in Architect's office; easy reach Chiswick; available middle November. Box 692.

For Sale

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

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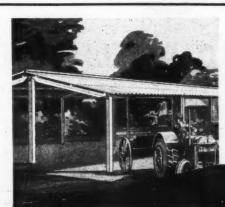
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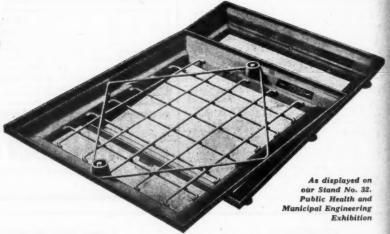
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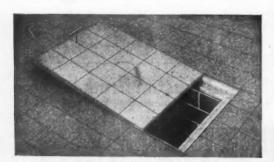
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