## The Architects' Journal

RIBA CONFERENCE NUMBER

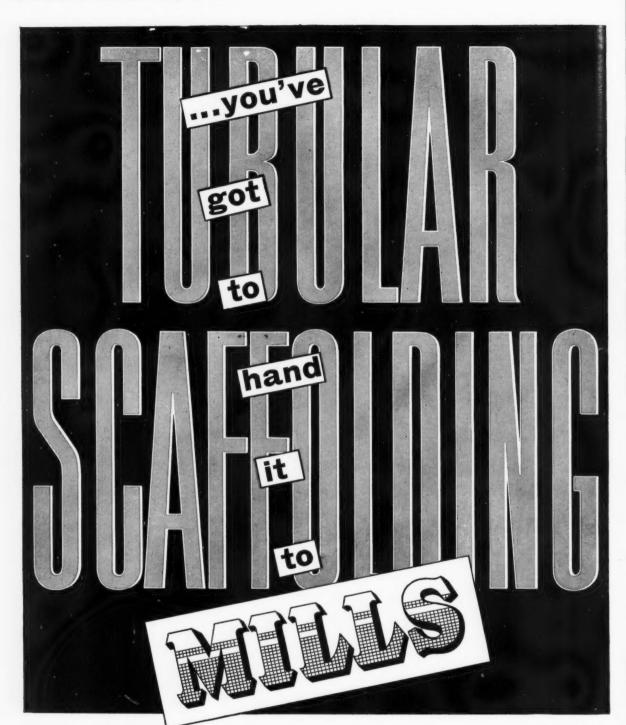


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used. (See B.R.S. Digest No. 75 on the strength and stability of walls.)

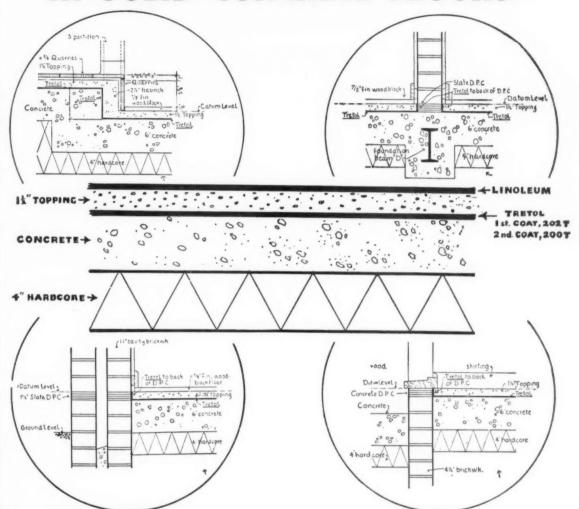
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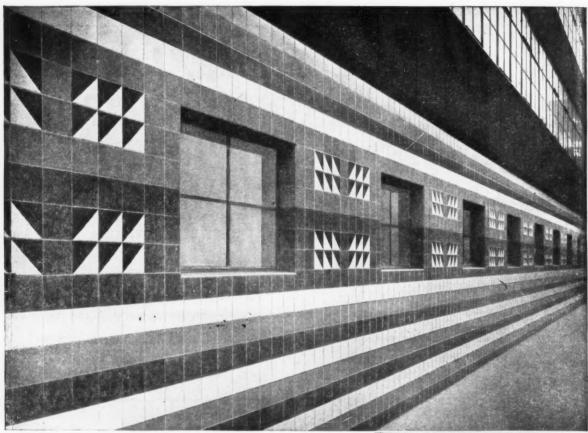
Not always appreciated, but perhaps of major importance, is the fact that **dry floors are warm floors.** Keep dampness well away from the final screed, and a valuable contribution is immediately made to better thermal insulation in domestic dwellings.

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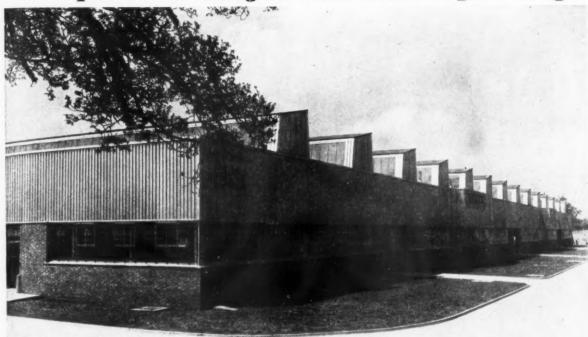
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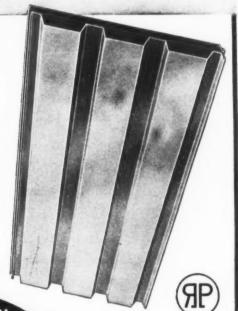


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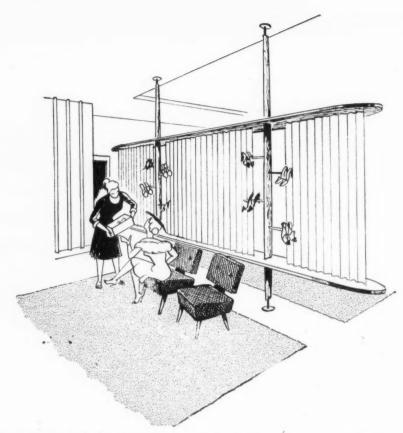
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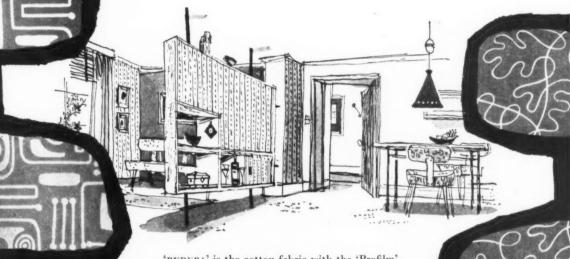
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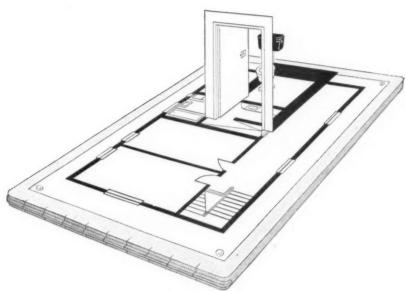
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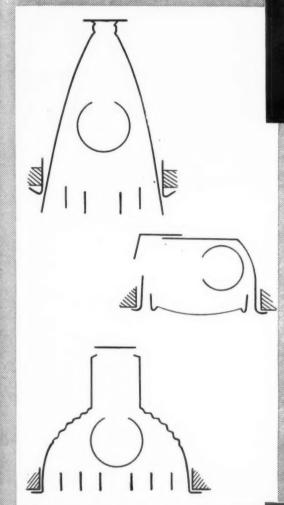
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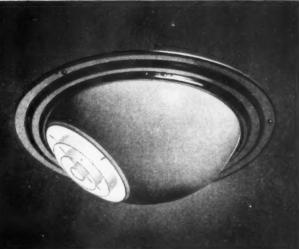
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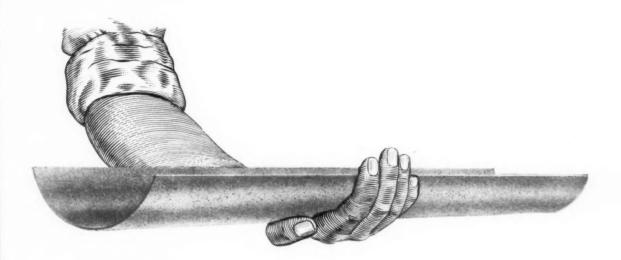
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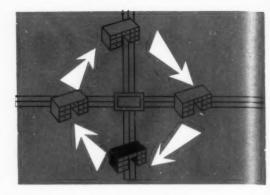
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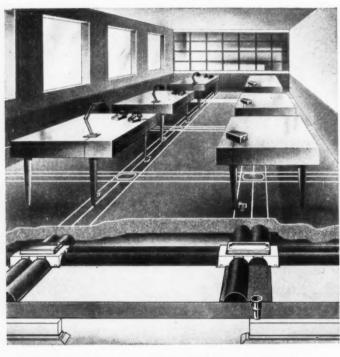
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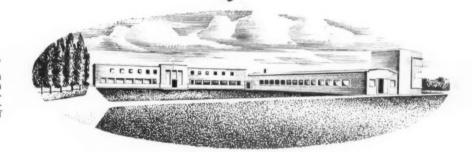


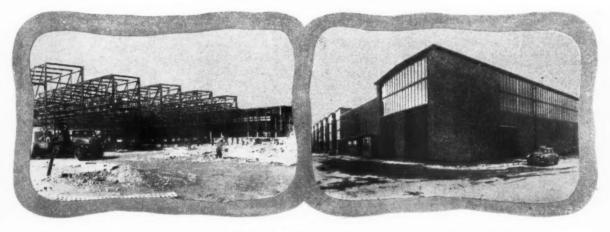
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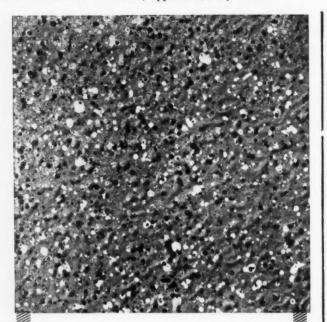
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The construction of two groups of four stations each will begin in 1960 and 1961/2 and they will be supplying electricity to the Grid by 1963/4 and 1965 respectively. The first group of stations will probably have one gas-cooled reactor each. The second group will probably utilise liquid-cooled reactors - one high rated reactor each. These stations will add well over 1,000,000 kilowatts to the nation's power resources.

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By 1975, it is anticipated that nuclear reactor power stations in Britain will have an aggregate installed capacity of between 10,000,000 and 15,000,000 kilowatts; and about half the national consumption of electricity will be derived from nuclear energy.

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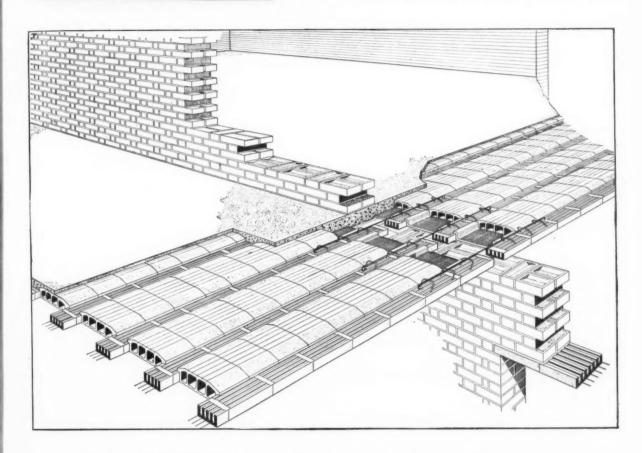
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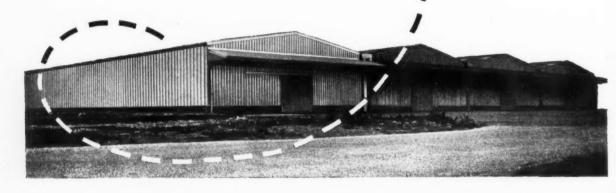
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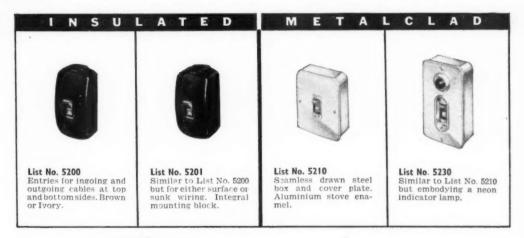
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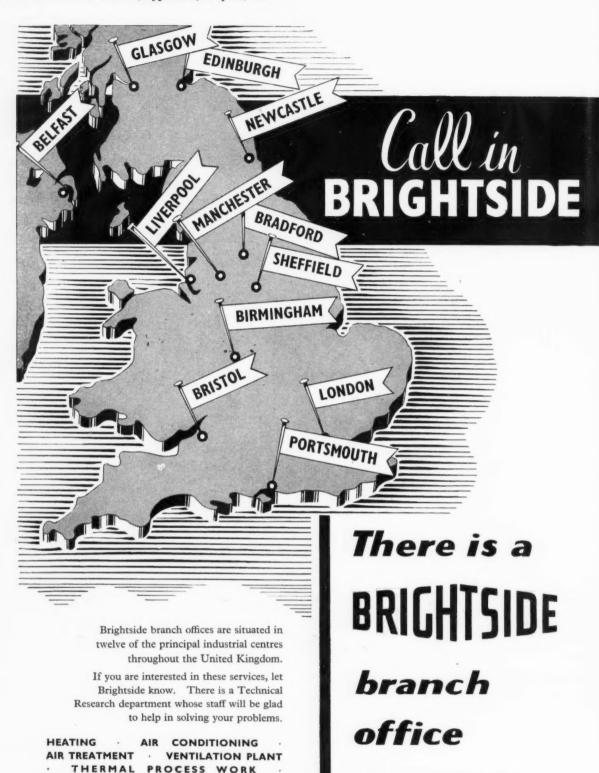
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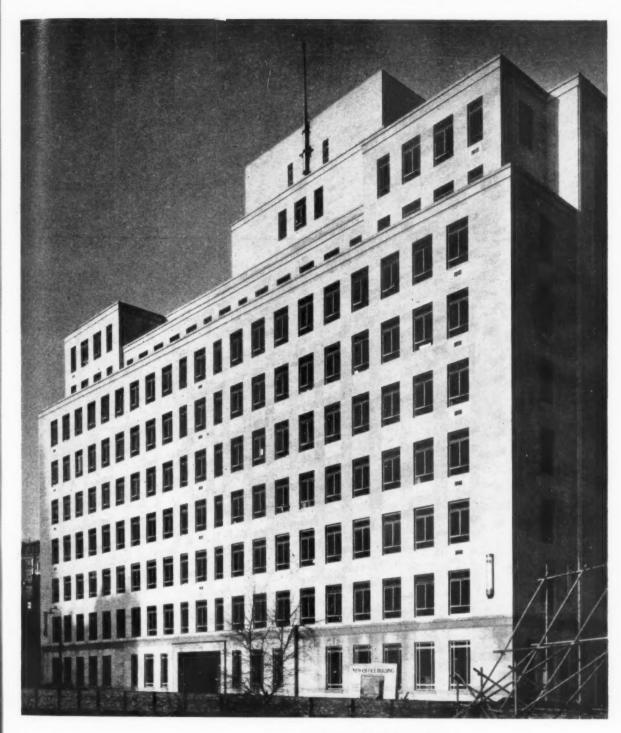
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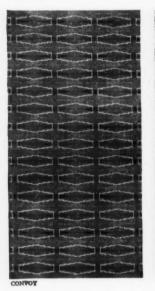
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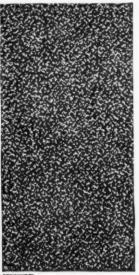
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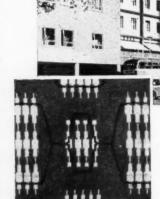
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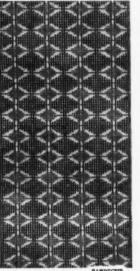
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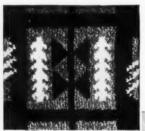
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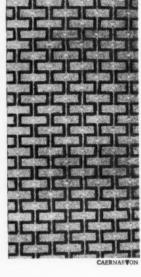
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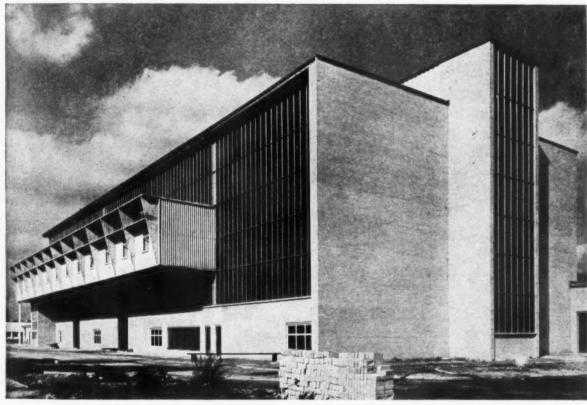




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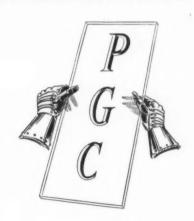
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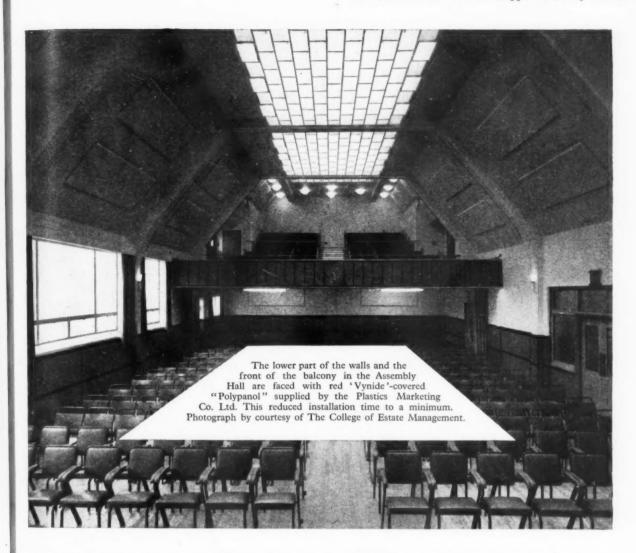
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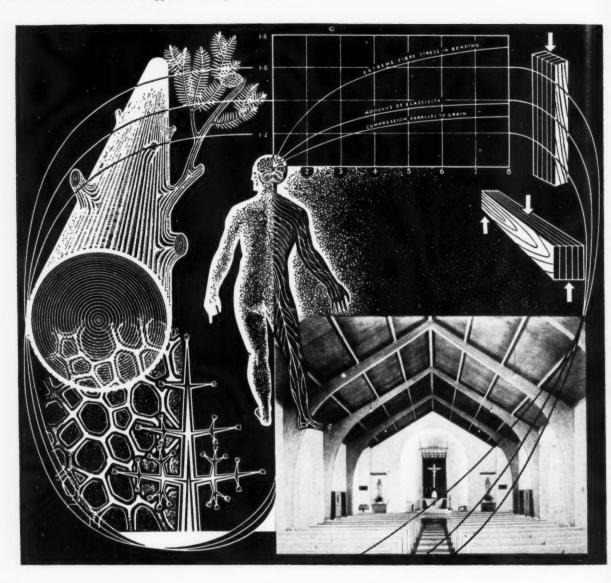
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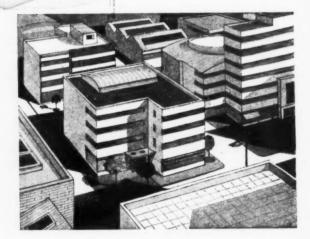
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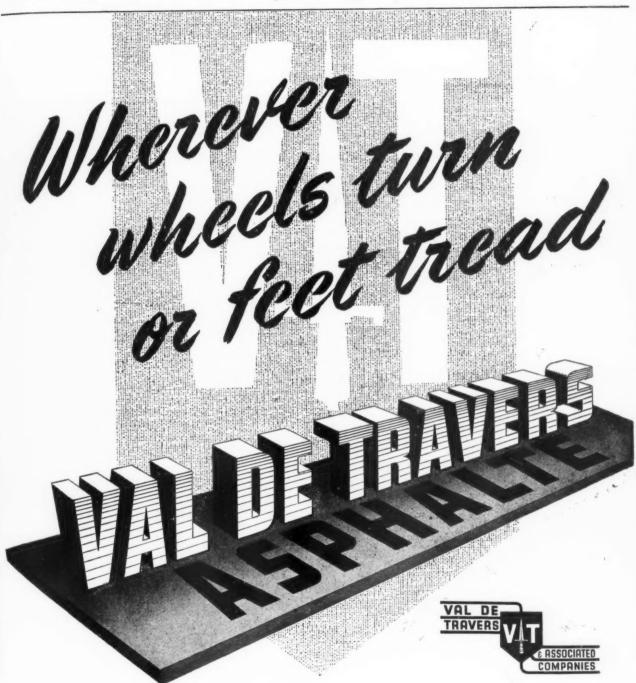
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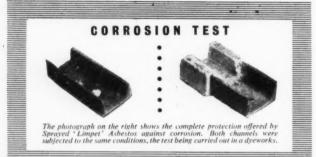
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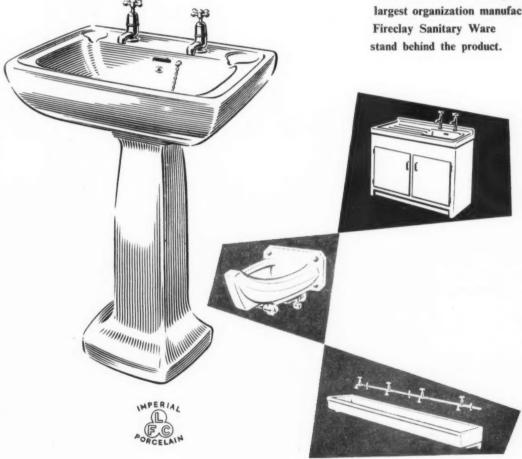
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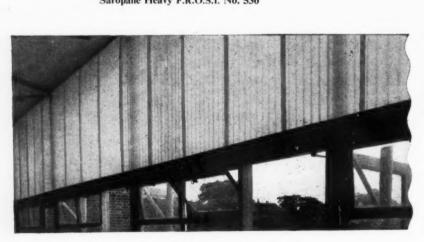
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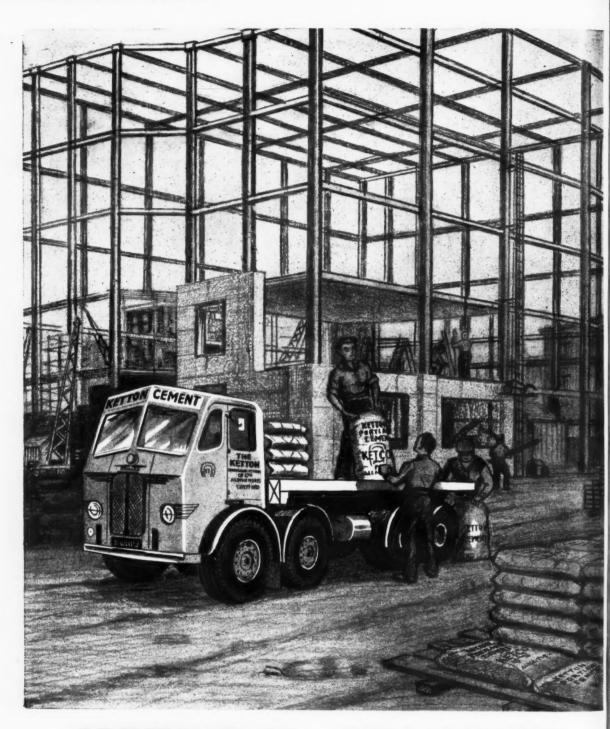


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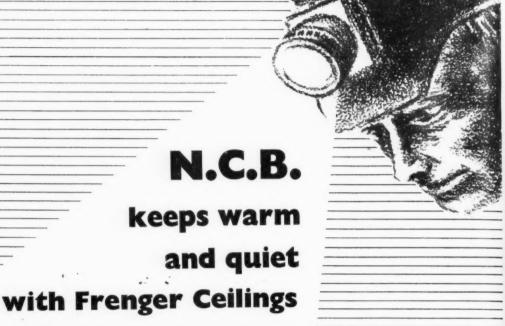
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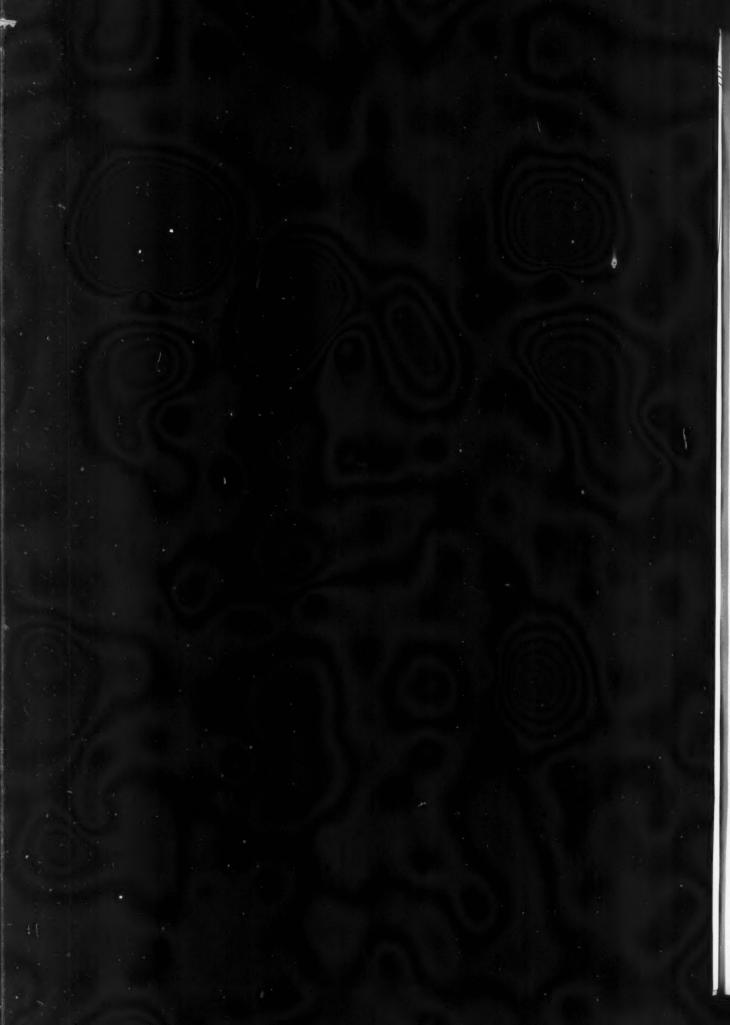
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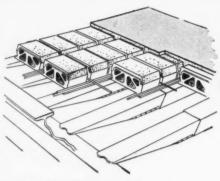
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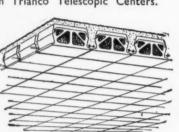
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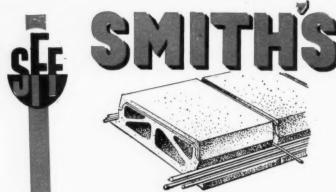
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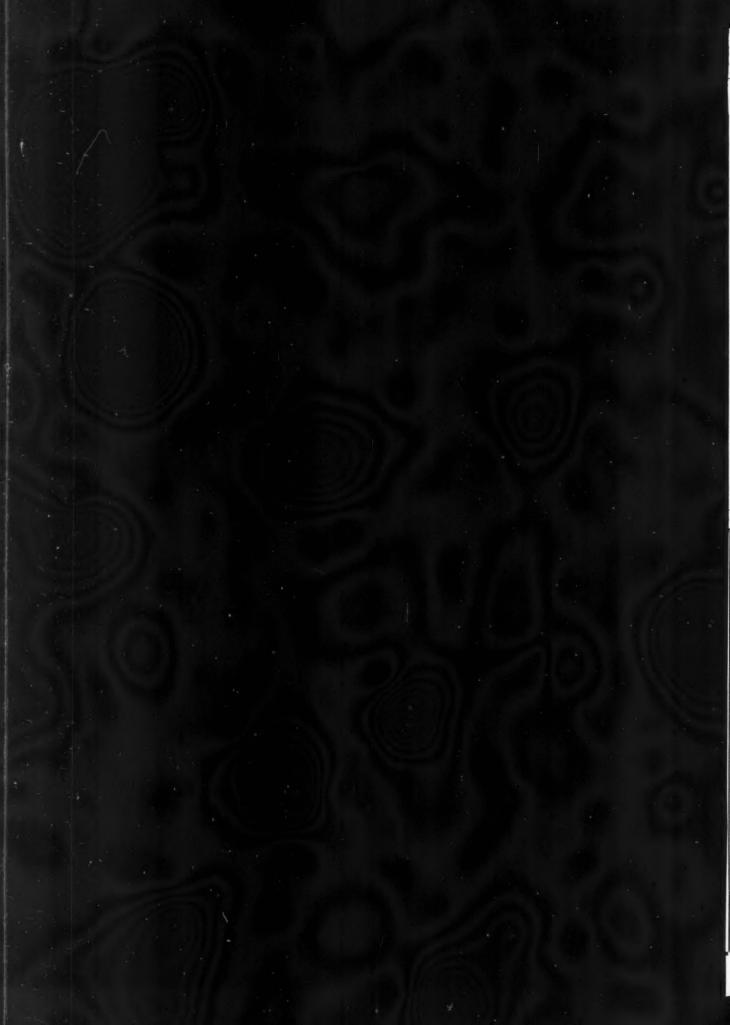
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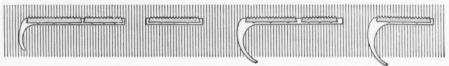
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THE ARCHITECTS' JOURNAL for May 31, 1956

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      - Parliament Buildings, Western Nigeria, opened by H.M. The Queen, February, 1956.
        - An artist's impression of the S.S. Empre of Britain, on the St. Lawrence River, Canada, launched by H.M. The

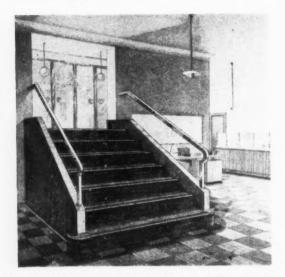
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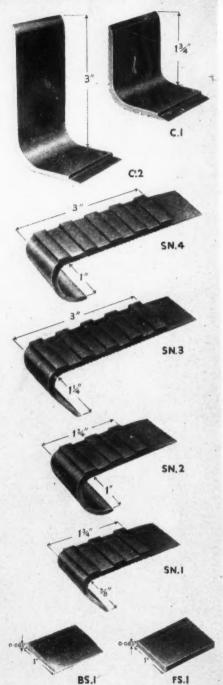
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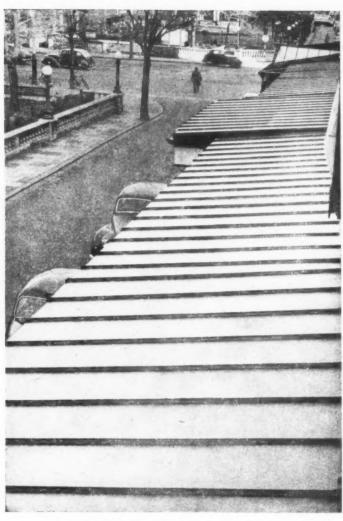
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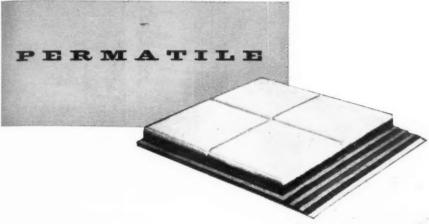
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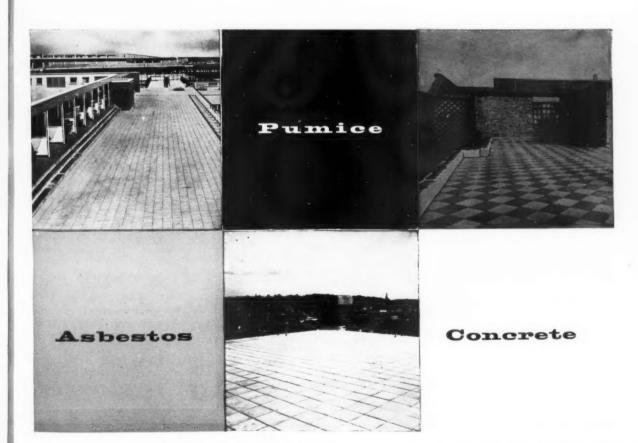
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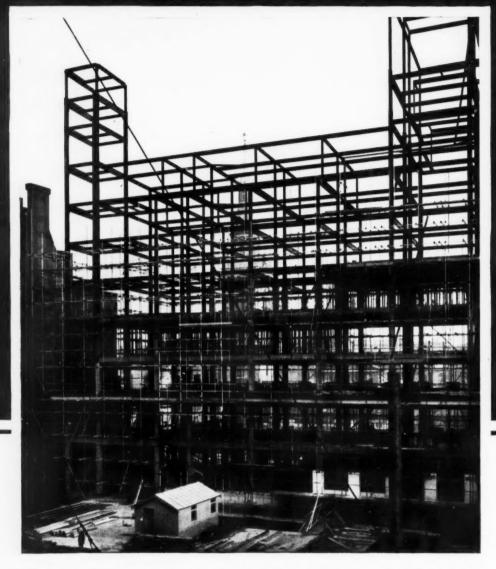
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THE ARCHITECTS' JOURNAL

No. 3196 Vol. 123 May 31, 1956

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# THE ARCHITECTS' CONFERENCE NUMBER

This year the British Architects' Conference is being held in Norwich (May 30 to June 4). In last week's JOURNAL we published a guide to the best of old Norwich and touched on the best of the new architecture to be found within reach of the city. Today we have given over our pages to the post-war work of the Conference hosts, members of the Norfolk and Norwich Association. The architects\* themselves were interviewed and photographed for us by Sam Lambert.

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<sup>\*</sup> Photograph of Tayler and Green, page 608, by Ford Jenkins.



LANDSCAPE EXHIBITION

Chelsea Flower Show is now so popular, and so crowded, that it is only bearable for the first hour or so after opening. ASTRAGAL, therefore, arrived as the gates opened last week, to stroll down the paths between the stalls, smugly crossing those firms off his list whose late-rising staff had failed to remove the protective hessian screens from their displays. He paused to note that too many of the flowers, like the dogs at Crufts, had been over-bred into tiresome distortions, and that the forced roses had no scent-not even when from California-and therefore could have been even better done in plastic. And then, after pausing again before the huge and glistening strawberries which, as always, evoked memories of long-ago teas-on-the-lawn and "one plain piece of bread-andbutter first, dear," ASTRAGAL made his way reluctantly to the remote screenedoff corner used for an exhibition of work by members of the ILA.

Remembering the bees devotedly working in the glass-fronted hive near-by, ASTRAGAL struggled against stupendously colourful floral distraction in order to read planting plans with no key, or merely diagrammatic plants, or just a handful of Latin plant names to indicate the author's erudition. Poor clients—if they have difficulty in reading a house plan, what chance have

they of following a planting scheme made out of conventional draughtsman's signs for trees and bushes? It must be no little relief to a client to have a landscape architect like Brenda Colvin who adds to her plan-a very attractive garden for a Bedfordshire school-thumbnail sketches to indicate the heights and massing of her planting, and who is not ashamed to use an ordinary English plant name. Among other exhibits, G. P. Youngman's scheme for a Croydon churchyard, although under-captioned, showed an imaginative treatment, and his garden for a small house, with an interesting transition from interior to exterior "rooms," was just the kind of design to catch an architect's eye.

G. A. Jellicoe had two designs on view: one was a roof garden for a Guildford store, all stepping-stones, water and a hurle-Burle of twisting shapes, striped umbrellas and teatables; the other was a very promising attempt to discipline, with bollards, paving patterns, planting and screens, an at-present sordid-looking sea-front at St. Margaret's Bay, Kent. Maurice Lee showed photographs indicating how much has been achieved at the MOE's Worthing School with a modest amount of planting placed to the best effect in carefully-detailed surroundings-in particular: interesting paving patterns and carefully disposed seats and water. One view, showing simply a cobbled wall, some concrete plant tubs, a line of dark trees and a curving hill in the background had almost the



Queuing to see ..... this

poignant quality of the famous landscaping at the Stockholm crematorium. ASTRAGAL also noted that D. R. Harper was growing conifers on the *un*levelled spoil from the Northants ironstone workings, where they grow better, apparently, than on the levelled ground. Here, surely, is the beginning of a very interesting variety of genuine 20th century industrial landscaping.

Only two gardens were shown this vear. apart from the monotonous rockeries. These being the end product of all the fuss in the marquee, it seems unfortunate that there were not more of them. Both were a better average standard of design than in previous years, but the more formal, stone-trimmed design -by Derek Lovejoy-endeavoured to introduce painted colour (strong red and blue) into garden screenwalls, and this made unnecessary competition in colour with the flowers.

### SIDEWALK SUPERINTENDENTS

If you have the good fortune to be strolling down Park Avenue between 52nd and 53rd streets any time during the next eighteen months, don't be surprised if you hear issuing from a hoarding in excellent Spanish, French and English: "Welcome! you are watching the construction of the first bronze building in the world." If you then apply your nose to one of the plexiglass portholes conveniently provided at various heights (except, of course, your own) you will indeed see. at present a very large hole, out of which will soon emerge Mies van der Rohe and Philip Johnsons' Seagram Building (see AJ: 28.4.55, p. 559).

This public- and publicity-spirited idea (illustrated below) on the part of a client who must be one of the most enlightened as well as one of the richest in the world, could surely be adapted



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for use over here. Ian McCallum, who has just returned from New York, tells me that projects like Seagrams and the Chase Manhattan Bank are continually the subject of newspaper articles and news stories, and as a result the public is much more alive to architectural issues than it is in England.

Seagrams propose to bring these short "newscasts" up to date as the building progresses, so that the sidewalk superintendent can acquire the knowledge to go with his self-assumed status. For the present he can store away the following statistics: - " Three million, two hundred thousand pounds of bronze will be used for the walls. That's more than has ever before been used anywhere on earth in one single project. The thousands of bronze units, laid end to end, would stretch 104 miles. The total bronze wall surface will be 153,000 sq. ft. That's the equivalent of three college football

### DUTCH GOTHIC

I have just received from Holland two magnificent volumes of photographs of Gothic choir-stall carvings by Martin Coppens. As pieces of bookproduction these volumes are sensational, for—in spite of their 13½ in. by 91 in. pages and seventy full-page illustrations per book-the price is only thirty-two shillings for the two volumes, yet the paper is good and the quality of the reproductions excellent. At least one of these sets of carvings is one that ASTRAGAL (and many other English visitors to Holland) must have looked at quite hard-those in the Oudekerk, Amsterdam. Yet they never seemed to have the qualities they possess in Martin Coppens' glowing photographs; this crisp, shorthand, economical igour in describing men and beasts in action.

ASTRAGAL, who counts himself a misericord-fancier, has never noticed this effect with English carvings of the same kind, but then they have never been so sumptuously published, nor so beautifully photographed.

**ASTRAGAL** 

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\* To preserve freedom of criticism these editors, as leaders in their respective fields, remain anonymous

### The Editors

### THE NORWICH CONFERENCE THEME

THE BRITISH ARCHITECTS' Conference, which is now under way at Norwich, is the occasion of the first public and official airing of "Architectural Economics "-a subject the JOURNAL has been concerned about for some time. The three papers being read\* all emphasize the need for cost knowledge to join with all the other fields of reference that lie behind an architect's choice of a particular type of plan, structural method, equipment or finish. Dr. J. C. Weston is asking for the wider use of cost analysis and cost planning; Dr. J. L. Martin is recommending the development of "elemental" bills of quantities, and both speakers have much to say about multi-storey housing. The need to build high is now on the verge of acceptance by most housing authorities, and the creative possibilities of building high are being revealed by a few pioneer architects, engineers and builders; but BRS investigation into the cost of flats shows an alarming variation of prices. This variation implies that many architects and their consultants, perhaps without realizing it, design forms of plan and types of construction that are inherently costly, for they work without the guidance of systematic cost information.

But where could they get such information? One source would be the cost analyses of their own previous jobs, but these would cover a comparatively narrow range of possibilities. What are really needed are analyses of the whole range of plan types and constructional methods available for flat design. The housing architect needs to know what other people have achieved. In other words, cost experience ought

to be shared—as it is on schools.

The great difficulty is that the Ministry's secretive and mysterious method of approving housing schemes inhibits the disclosure of housing costs by local authorities. It is ironic, then, to find the Minister of Housing, Duncan Sandys, challenging the quantity surveyors (at their annual dinner) to make "suggestions as to how the cost of building blocks of flats could be reduced." The surveyors could help by encouraging the development of cost analysis, but the decisive move lies with the Minister himself. If he would publish cost targets for housing and encourage the publication of cost analyses, so that all architects knew both what they had to aim at, and the prices of different methods of getting there, the targets could probably be reduced year by year.

<sup>\*</sup> Gothic Choir-Stolls in the Netherlands by Martin Coppens Elsevier (handled in England by Cleaver-Hulme) 2'vols., 32s.

<sup>\*</sup> By E. D. Jefferiss Mathews, Dr. J. C. Weston and Dr. J. L. Martin





# "A fine city, NORWICH"

You know the picture and the slogan as part of the excellent advertising campaign of the Norwich Union Insurance Company. But not all views in Norwich include the cathedral, and not all buildings in Norwich are old buildings. Indeed, Norwich Union have contributed to the "fine city" themselves in recent years, as you can see in the pictures below.\* Many similar buildings have been put up within the city boundaries since the war. But the compilers of Norwich guides ignore these contributions to the pattern of their city, and people who never visit the place might be excused for thinking that it is all Closes, mediaeval churches and antique shops. In fact modern architecture has by no means left Norwich

\* Left: architects, E. and G. Buckingham. Centre: architects, Olley and Howard. Right: architects, J. Owen Bond and Sons.







untouched, and we are publishing this week a comprehensive picture of the city's new face. Not many of the buildings shown here—designed by members of the Norfolk and Norwich Association, the hosts at this week's British Architects Conference—are right in the city's core. (This preserves its old charm.) Indeed, quite a number of the illustrations are of work done by Norwich architects (or by members of the Association as far north as Kings Lynn and as far east as Great Yarmouth) outside the city. But the overall picture you will obtain from this issue is one of the striking similarity of the style inspired in many of those who work in or near the fine city, Norwich. The future . . .? Well, here below and overleaf is an encouraging glimpse of it.

### THE CITY ARCHITECT'S DEPT.

THE PAST . . .



Above and below are some examples of work done since the war (housing, shops and a school) by the City Architect's Department, under L. G. Hannaford (deputy: C. J. Tomkins), who retired last year. The new city architect, David Percival (see page 590), who took over in



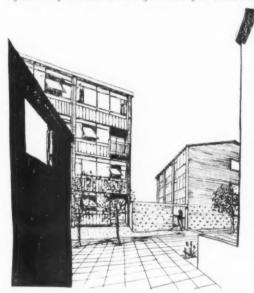
October, has already undertaken a complete review of development plans for the Vauxhall Street area and has prepared a scheme, from which the examples on the right are taken, for the development of 13 acres of land. Other

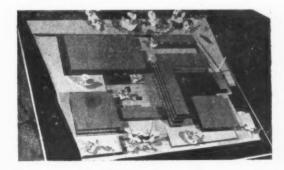


work he has completed includes the design of a secondary technical school (on the right) and proposals (overleaf) for new buildings in the city centre. THE FUTURE . .



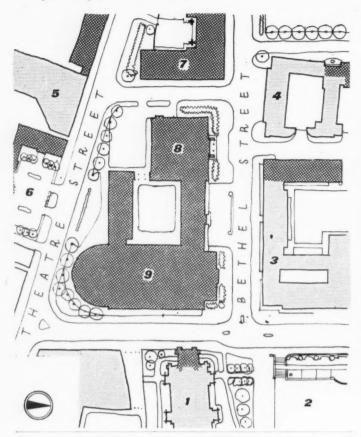
Left, the site of the scheme above. Right: the site of the scheme below,

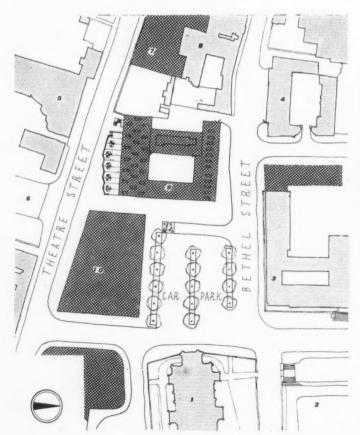




wich Union mildings in mselves in within the ons to the all Closes, it Norwich

### A fine city, NORWICH"





### NEW PLANS FOR THE

### A PLAN REJECTED

This plan (left) and perspective (below) were part of the City of Norwich Plan, prepared by C. H. James and



S. Rowland Pierce in 1944. The sketch shows how the proposed library (seen from the north-east of St. Peter Mancroft) would have thrust itself on to a scene already dominated by Messrs. James's and Pierce's city hall.

- I. St. Peter Mancroft
- Market Place
- City Hall
- Fire Station
- Theatre Royal
- Forecourt to Assembly Rooms
- Central Continuation College
- Courts building
- Central Library

### A PLAN ACCEPTED



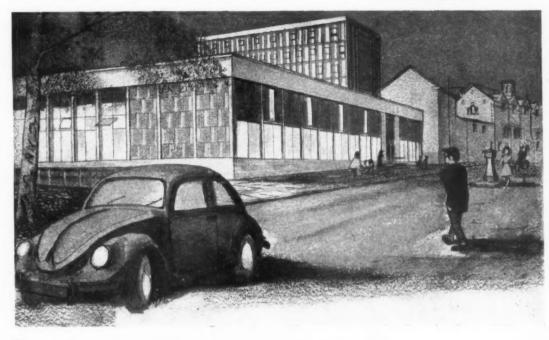
This plan and sketch, left and above, show the design by David Percival (the new city architect) which has been accepted in principle. Note how he has played down the new buildings, leaving the city hall-in his words-" as the unrivalled centreplece of the composition."

- St. Peter Mancroft Market Square
- City Hall
- Fire Station Theatre Royal
- Forecourt of Assembly Rooms
- College for Further Education
- 8. Bethel Hospital
- Library
- 10. Concert Hall

### CITY CENTRE

The photograph on the right (taken looking south-west up Bethel Street) shows the site for the proposed library, seen from the same viewpoint in the sketch below. The architect wants the building to be of reinforced concrete, with ground floor elevations clad in knapped flint work, which would be made up from prefabricated panels. These would be complementary to the knapped flint and stone of the Guildhall and St. Peter Mancroft.







west up Theatre Street); beside it is a

Above is another part of the library site sketch below shows the ground floor taken with the camera pointing north- public rooms facing on to a paved,



THE

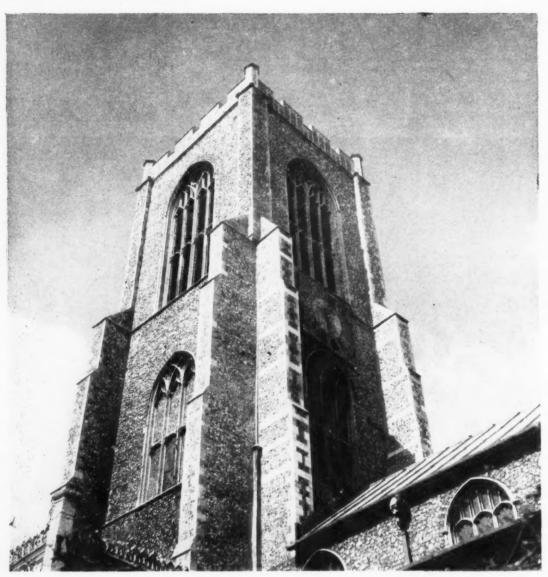
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"A fine city, NOR WICH"

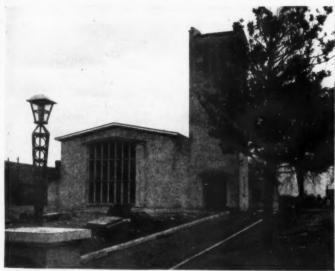
St. Giles Church, Norwich

# POST-WAR CHURCHES











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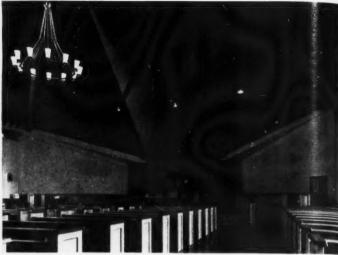




5, 6, 7,

- 1 and 2 Catholic Church at Wymondham, Norfolk. Architects: Purcell and Johnson,
  - 3 Extension to Monastery, Quidenham, Norfolk. Architect: Frank M. Dewing. 4 St. Michael's, Waddington,
  - 4 St. Michael's, Waddington, Lincs. Architects: Skipper and Partners.
  - 5 Methodist Church, Heartsease Lane, Norwich. Architect: Clifford Dann.
  - 6 St. Mary's Baptist Church, Norwich. Architects: Wearing and Hastings.
  - 7 Church extension, Mempton, nr. Norwich. Architect: J. P. Chaplin.
  - 8 Catholic church hall, West Earlham, Norwich. Architects: Purcell and Johnson.











9, 11, 12





### MORE POST-WAR CHURCHES

- 9 and 10 Trinity Presbyterian Church, Unthank Road, Norwich. Architects: Edward Boardman and Son, assisted by Bernard M. Feilden.
  - 11 Catholic church, Wymondham, Norfolk. Architects: Purcell and Johnson.
- 12 and 13 Church at Bawdeswell, Norfolk. Architect: J. Fletcher Watson.

  14 Church at Stowmarket.
  - Architect: A. D. Cooke.

### THE ARCHITECTS OF NORWICH

### EDWARD BOARDMAN & SON

ARCHITECTS IN PRIVATE PRACTICE Humphrev H. Boardman (left), 52, carries on practice with eleven assistants in Tudor (bits left) office in Queen's Street. Grandfather, who was apprenticed to Lowestoft builder, was responsible amongst other things for converting the Castle into a museum. Father designed Royal Hotel and Norfolk and Norwich Hospital. Studied at Cambridge and at the AA under Howard Robertson, Worked for father then went to the Northern Polytechnic. Father retired in 1933 and he became junior partner. President of the local association. Rowing blue, represented Britain at the Olympic Games, Amsterdam and British Empire Games, Canada. Coached Cambridge 1939 and 1940. Francis Harold Swindells, 68, was born in Lancashire. His father was a stockbroker who dabbled in architecture. Articled to Sir Guy Dawber in London and studied at the AA Day School in Tufton Street. Came to Norwich in 1919.





### T. F. TROWER

ARCHITECT IN PRIVATE PRACTICE

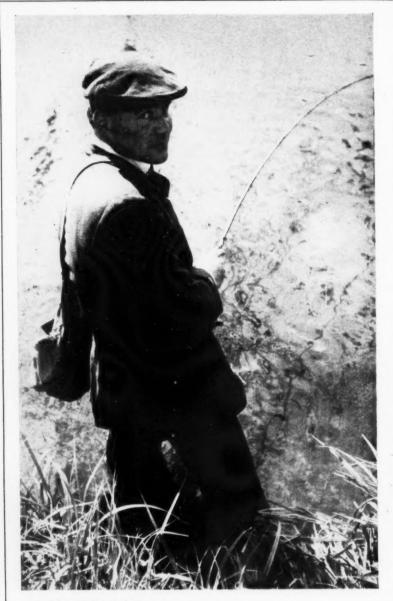
Thomas Francis Trower, 61, practised in Lincolnshire from 1925 to 1940 before coming to Norwich. His office for the last twelve years has been in the Close, overlooking the Cathedral, within pellet-shooting distance of Nelson's classroom. One pupil, two assistants. Father was a director of a building firm. Born at St. Ives, Huntingdonshire, and moved to Norwich when four. Articled to W. S. Dunham, subsequently worked in London for George Claire and in Leicester for Clare and Simmons. Biggest job on hand is the addition of 30 bedrooms to the Castle Hotel. Admires Dudok and Stockholm Town Hall. Feels Norwich is "an ivory tower which has not outgrown its scale". Younger son completes training this year at Nottingham School of Architecture. Hobbies include philately and photography. Recommends visit to Georgian houses in the Lower Close and The Cloisters.

ES

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### B. M. FEILDEN

ARCHITECT IN PRIVATE PRACTICE

Bernard Melchoir Feilden, 37, has been in practice for eighteen months. He is building his own office with flat above on the west side of Cathedral Close. Hopes to occupy it in September. Father an engineer and artist. Maternal grandfather, architect Brightman Binyon, who, with Alfred Waterhouse, built Colchester Water Tower and Sunderland Town Hall. Studied at the Bartlett and the A.A. Practised with Douglass Mathews and Edward Boardman and Son. Biggest job on hand is office block for May and Baker in Norwich. Describes himself as moderate modern, admires Powell and Moya. Likes fishing, walking, travelling (especially abroad), camping and a cat called Pimlico (became attached on visit to Powell and Moya flats). Likes Norwich and Norfolk more and more, even though he is a "foreigner." Present home a keeper's cottage, with superb views, near Norwich.

### J. P. CHAPLIN

ARCHITECT IN PRIVATE PRACTICE

John Percival Chaplin practises in early Georgian house on the south side of the Cathedral Close. Four assistants. Born in Yorkshire. Father was in the insurance business. Articled to and worked in the office of G. H. Fawcett, Scarborough, for nine years. Really wanted to be an artist but father objected to his attending life classes. Came to Norwich twenty-one years ago to develop an estate for an agent. Half his work consists of " propping up the past." Has work on hand in Durham and Cambridge. Hobbies include making model ships, carving, painting (" water colours for emotional release"), collecting ghost stories (over 200), sketching, historical research and research on family histories. His wife paints also. Son is



studying at Cambridge School of Architecture. Eldest daughter is figure drawing. Four other children. He recommends a look at St. Peter Mancroft—" a most unusual Gothic church" (see last week's AJ guide to Norwich).

### J. OWEN BOND & SON

ARCHITECTS IN PRIVATE PRACTICE



Robert Owen Bond (centre), 44, succeeds father who founded the firm in 1904. Staff of 12. Born in Norwich and studied at the AA. Responsible for Lido swimming pool, Norwich, Bond's shop (a relative), Norwich, modernization of the Royal Hotel, offices for the Norwich Union Insurance Society, and about 20 cinemas all over the country. Firm is one of largest in Norfolk. Likes farming, yachting (owns four boats and is Commodore of the Royal Norfolk and Suffolk Yacht Club), golf, bowls. Lives at Wymondham and has 100-acre farm.

Derek Owen Bond (on the right), 38, was born in Norwich, studied part-time at the Norwich School of Art and full-time at Kingston School of Art under Eric Brown, Phillip Powell and James Cubitt. Joined the firm in 1936, became junior partner in 1953. Likes golf, building television sets, gardening (which ruins golf swing), sunny climates, blue skies, bright colour, and jobs where there is chance to be a little "different." Built own contemporary house in Eaton, Norwich, 1951.

Robert William Sutton, 39, was born at Dereham, studied at Norwich School of Art and spent four years in the Middle East on survey work and counter-battery whilst with the Surrey Regiment, RA. Joined J. Owen Bond in 1934, became junior partner in 1953.

### W. A. J. SPEAR

ARCHITECT IN PRIVATE PRACTIC

William A. J. Spear, 47, chose his office with an eye on the convenience for dealing with a large part of his clientele-farmers. Junior partner who is "red-hot on construction" was previously in the architect's department at Yarmouth B.C. Staff of eight. Born in London's Mayfair. Articled to George Skipper who "never taught him anything but certainly taught him what not to do." Worked as second assistant in Skipper's London office, then in 1936 as resident engineer at the Air Ministry (on Honnington Air Field, largest in the country). After the war became MOH Housing Officer for Norfolk, Suffolk and the Isle of Ely. Set up in practice 1950, specializing in the



1947 Farm Act and 1949 Improvements Act. In early days worked 48hour stint. Now works for Swaffham
RDC, Wells UDC, Mildenhall RDC,
and Norfolk TA. Reckons to be more
of a businessman than architect. Has
always liked Sir Edward Lutyens'
work. Feels that the contemporary
style in Norfolk would look like
wearing grey flannels with a topper.
Has joined a great many of the local
clubs and is a member of the town
council.

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" The Adam and Eve," Bishopsgate, Norwich.

"A fine city, NOR WICH"

### POST-WAR PUBS

- 1 "The Sceptre," Great Yarmouth.
  2 "The Dial," Dereham Road, Norwith
- 3 "The Shoemaker," West Earlham,
- Norwich. Architects for 1, 2 and 3: Berry, Crane

and Noble.









6

8

10













- 4 " The Freed Man," St. Mildred's Road, West Earlham, Norwich.
- Architect: Cecil A. Golding.

  5 "The South Star," South Quay, Great Yarmouth. Architect: A. W. Ecclestone.

  6 "The Crocodile," Norwich. Architect:
- Cecil A. Golding.
  7 "The Norman," Fir Lane, Lowestoft.
- Architect: A. W. Ecclestone
- 8 " The Raven," Norwich city centre. Architect: Cecil A. Golding.
  9 "Links Hotel," Gorleston, nr. Great
- Yarmouth. Architect: A. W. Ecclestone.
- 10 " The Castle," Beccles, nr. Lowestoft.
- Architect: Cecil A. Golding.

  11 "The Fellmonger," Norwich. Architect: Cecil A. Golding.

3: Berry, Crane

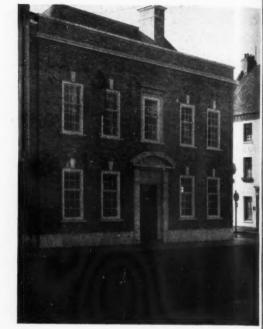
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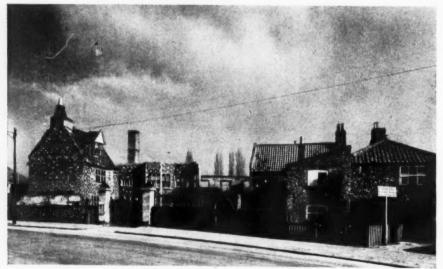
### MORE POST-WAR PUBS

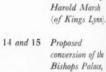




12







12 and 13 " The Woolpan Inn," Tuesday Market Place,

Kings Lynn, before and after reconstruction by

Two ways with old

buildings

Heigham, into
"The Dolphin"
Architect:
J. Fletcher
Watson.

14





#### THE ARCHITECTS OF NORWICH continued

#### BERRY, CRANE AND NOBLE

ARCHITECTS IN PRIVATE PRACTICE

Arthur G. Berry is 73. The office of the firm (founded 1903) overlooks the subtopia of Station. Thorpe assistants. Fine Work includes pubs. factories, churches and hous-Norwich family. Father a schoolmaster, Articled to G. Skipper. Designed own house in " modern Georgian" style, 1922; feels his best at "the Adam style." Used to sail



and play golf. Churchwarden at St. Peter Parmentergate; keen supporter of Norwich City Football Club; in demand as after-dinner speaker. Wife is water colourist-Edward R. Crane (right) is 45. His father was a haulage engineer; his grandfather a blacksmith. Family name can be traced back to 12th century in Norfolk. Articled to Buckingham and Berry (firm's original name: Claude Buckingham died in 1948). Continued studies at Regent Street Polytechnic. Likes messing about with old buildings or really contemporary new work, interior designs and decoration. Also likes cats, dogs, Norfolk country and churches, his Alvis (1952), children, the Royal Navy, ships in general and steam engines. He dislikes gardening, road hogs, driving at night, Norwich cockneys, London, television (except selected programmes), snobs, watery beer. Built own house in 1952; wife one-time Wren.

John B. Noble, (left), 43, joined firm in 1949. Born at Inverness; father a farmer. Articled to Carruthers & Ballantyne; studied at Robert Gordon's College, Aberdeen-Practised with J. Emberton; later with Manger & May. Likes contemporary house—and factory—design; would like to design and build luxury hotels; interests include shooting, fishing and flying. Likes country and country people, piano concertos and bagpipe music. Dislikes large towns. Designed own house at Cringleford.

#### L. E. G. HUNT

ARCHITECT IN PRIVATE PRACTICE Leslie E. G. Hunt, 44, has offices in two houses recently converted "in contemporary style." He has a staff of 3. Trained with A. F. Scott & Sons, from 1929 to 1935. He has other offices in North Walsham and Thetford. Work in hand includes agricultural, domestic, shops, offices, garages, and holiday camps (alterations and extensions) to a value of £,20,000-£,25,000. Favourite type of work is commercial and domestic. Lives at Old Catton, near Norwich, in house he designed "in cottage style" about eight years ago. Hobbies are golf and gardening. He is an honorary lieutenant of the Royal Engineers.



The Woolpack an," Tuesday Iarket Place,

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larket Place, ings Lynn, fore and after construction by arold Marsh f Kings Lynn).

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#### 590

### PURCELL & JOHNSON

ARCHITECTS IN PRIVATE PRACTICE

DonovanPurcell(right in picture), 42, established himself in 1952, and the firm occupies Georgian town house in Bethel Street. Partnership formed as result of advertisement; staff of 3. Born Norwich. Articled to A. G. Berry. Has worked for Q.M.G., War Office, Cooperative Wholesale Society, Reckitt & Colman, NorwichCity Architect, and Hum-

phrey Boardman, the present president of the local association. Assistant lecturer at Cambridge University School of Architecture for five years; built up practice at same time. Does a lot of work on historic buildings and is currently engaged on the restoration of Corpus Christi, Cambridge, and Oxburgh Hall (National Trust property). Practice includes factory and domestic work. Likes Spence's Coventry Cathedral. Editor of this year's Norfolk and Norwich Architectural Association's year book. Member of a Catholic discussion group. Designed own house at Wymondham.

Frederick Johnson, 47, was articled to Naish & Mitchell



at Bury St. Edmunds. Worked on schools, hospital, brewery, shops and offices. Between '36 and '38 managed two practices; formed first partnership in '38. During the war was A.R.P. technical adviser and war damage assessor and taught at technical school. Work on hand includes hospital, school, garage, showroom and housing. Likes working on historical buildings, hospitals and schools; ambition is to make greater study of use of colour in buildings. Hobbies are map-making (latest effort is 20 ft. × 8 ft. for a hall), travelling whenever possible, modern painting and sculpture. Lives in new house in wooded, rolling country near Norwich.

#### C. DANN

ARCHITECT IN PRIVATE PRACTICE

Clifford Dann, 56, was articled to C. Upcher and studied privately. After working for Upcher he set up in private practice in 1945. Work on hand includes private houses, a bakery and Methodist churches at Gorleston, Potter Heigham and Aldeburgh. Commenced teaching architecture at the Norwich School of Art in 1930. He continued there until 1949 when a full-time tutor was appointed. Since then has taught only history of architecture. Interests include photography and amateur dramatics.



#### A. D. COOKE

ARCHITECT IN PRIVATE PRACTICE

Alan Dennis Cooke, 39, has had an office in Norwich since 1944. Also has branch offices in Ipswich and London. Fifteen assistants. Born at Newport Pagnell, Buckinghamshire, and lived most of his early life in London. Studied at Regent Street Polytechnic and had passed all his exams at 19 but was not able to qualify until he was 21 because of RIBA Regulations. Went to Norwich as agent for a building contractor working on airfield construction. Has three-quarters of a million pounds work on hand. Would like to build for entertainment. Admires the "so-called contemporary style," also Frank Lloyd Wright. Is learning to fly and aims to commute between offices by air. Would like to visit the states. Married to Parisienne. They live in house of his own design (see page 611) overlooking the river at Horning.



#### A. WRIGHT

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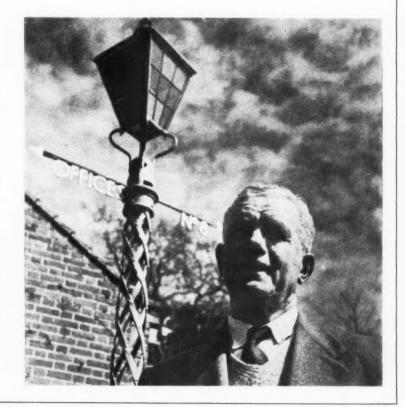
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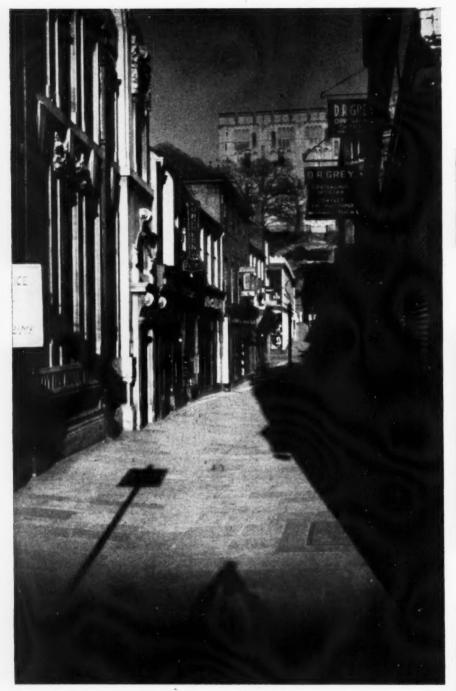
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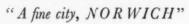
12

ARCHITECT IN PRIVATE PRACTICE

Alec Wright combines office and living quarters in converted gig house, harness room and stables near Thorpe. Five assistants. Born in Norwich. Was articled to Claude Buckingham, then forsook architecture in 1930 and set up in partnership with a builder at Wroxham. In 1942 rejoined Claude Buckingham as War Damage Assessor but as he had not registered in the interval of non-practice had to take RIBA exams again. Work on hand includes buildings for Goodyear, Bird's Eye, Unilever and the Milk Marketing Board. One son is a civil engineer in Toronto. Daughter a Wren at Malta. Likes travel and has paid Scandinavia half-a-dozen visits " to pick up ideas."







Davey Place, Norwich







3



POST-WAR SHOPS









- 1 Shops at Caravan Camp, North Denes, Great Yarmouth. Architect: -H. R. Lister.
- Electricity Service Centre, The Walk, Norwich. Architect: Thomas F. Trower.
- 3 Curls' stores, Norwich. Architects: A. F. Scott and Sons.
- 4 Pilch's (behind Curls'), Norwich. Architects: A. F. Scott and Sons.
- 5 Bonds' stores, Norwich. Architects: J. Owen Bond and Son.
- 6 Shops, Back-of-the-Inns. Norwich. Architect: Alec Wright.
- Shopfront, Kings Lynn. Architect: Ellis Middleton (of Kings Lynn).
- Reconstruction of shops, St. Andrews Hill, Norwich. Architect: Frank M. Dewing. (Partner: J. M. Herriott Shop, London Street, Norwich. Architect: J. P. Chaplin.
- 10 Shopfront, Attleborough, Norfolk. Architect: Frank M. Dewing (Partner, J. M. Herriott).





11





12

11 and 12 Dry Cleaners, High Street, Lowestoft. Architects: Tayler and Green.

13, 14 and 15 Combined restaurant and confectioners, Back-of-the-Inns, Norwich, Architect: A. D. Cooke.







15



#### THE ARCHITECTS OF NORWICH continued

#### A. F. SCOTT and SONS

ARCHITECTS IN PRIVATE PRACTICES

Eric W. B. Scott, 67, is eldest son of A. F. Scott, who founded the firm, 1880. There are now five partners. Grandfather was a Methodist minister. Articled to his father and at one time worked for W. S. Cross. Opened London office for father in 1910 (closed first world war). Has worked in Norwich ever since. Mainly large industrial buildings: also Curls (biggest department store in City). Has been to USA to study industrial architecture (1923). One-time member of the RIBA Council. Still on the RIBA Practice Committee. Was sole representative of RIBA on the MOW Committee which was set up to revise the Model Bye-laws. Has been honorary secretary of the Norfolk and Norwich Architects Association from commencement. Member of the local photographic society.

Theodore G. Scott, 65, trained with father and at King's College, London, and the Royal Academy School of Architecture. Has been responsible for housing, churches, restoration of old halls and other buildings, electricity workshops and stores and factories. Current work includes dwellings, industrial buildings and new head offices for Pye Ltd., at Cambridge. Interested in travelling, international goodwill, gardening, music.



#### C. L. LISTER

ARCHITECT IN PRIVATE

Claude Lewis Lister, 52, twelve years older than his brother in Yarmouth, set up in private practice in August 1955. One assistant. Father a director



of timber merchant's firm. Born in Lowestoft and articled to a Lowestoft architect, E. Allerton. Worked subsequently with F. G. Sainsbury at Reading. Then became chief assistant architect to the Norwich Corporation 1924 to 1946. Transferred to the MOH but found the work too frustrating, and as both sons have grown up decided this was the time to set up in private practice. Both sons are studying architecture, one an assistant with F. Dewing, the other at Norwich Art School. Chief hobby, sailing (in one of the original 30-ft. sailing cruisers built for the Broads). Finds he is thoroughly enjoying life. Working on council housing at Thetford, conversions and a warehouse. Recommends a visit to the backyards off Magdalen Street and St. Giles' Street.

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#### C. H. THURSTON

COUNTY ARCHITECT OF NORFOLK

Christopher Henry Thurston, 49, is County Architect of Norfolk (third or fourth largest administrative county in the country). Responsible for buildings for police, welfare, children, district nurses' and old people: also fire stations, offices and courts, but in common with only two other counties, not education. Staff of 25, including engineers and Q.S. Born in Essex, came to Norfolk when very young. Articled to A. F. Scott & Sons. Has been in the Department since 1931; became County Architect in 1942. Biggest post-war job is Divisional Police Station at King's Lynn. Not strongly contemporary-minded. Likes gardening and playing with the car. Recommends visit to Georgian houses in Ber Street and St. Catherine's Plain.

#### SKIPPER AND PARTNERS

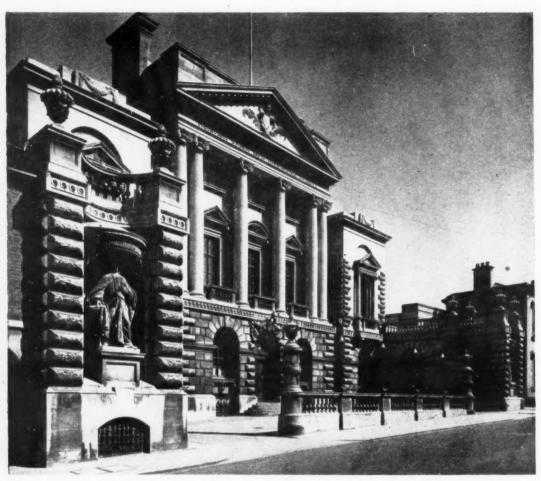
ARCHITECTS IN PRIVATE PRACTICE

Eric H. Skipper, 59, and Edward J. G. Skipper, 38, succeed their fathers who at one time practised together. The firm originated when George J. Skipper commenced practice, aged 20, in 1876. He was joined in about 1885 by his brother, F. W. Skipper, and the partnership lasted until 1912, when it was dissolved. The two separate businesses were then carried on in the same street. The two firms united again in 1946, when the present partnership was formed. There is a branch office in Lowestoft (see page 608). Total staff seven.

Eric Skipper was articled to his father. He studied at the Bartlett under Professors Simpson, Richardson and Adshead. Practised for three years with G. T. Brown in Sunderland (domestic, shops and colliery subsidence). Became father's partner in 1926. Work includes offices, shops, churches, estate development, restoration. He is Norwich Diocesan surveyor. Likes gardening, reading. Son is quantity surveyor in the firm.

Edward Skipper trained with his father and at the Norwich Art School. Began to practise with his father in 1936. Likes work on historical buildings and contemporary architecture, garden design and site planning, sketching, modelling, photography, woodwork and metalwork. Is group scoutmaster. Work now in progress on scheme for rebuilding in Sackville Street, London, won by competition.





"A fine city, NORWICH"

Norwich Union offices, Surrey Street.

## POST-WAR OFFICES













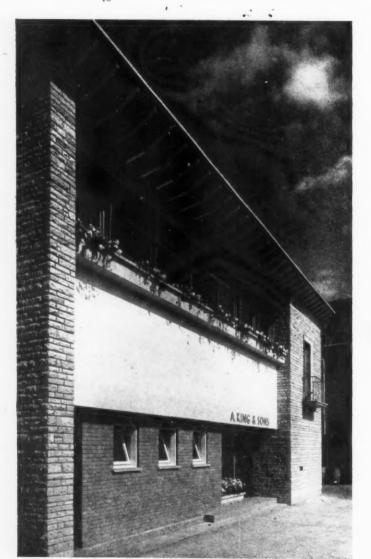




- 0
- 1 Offices in Castle Meadow, Norwich. Architect: Alec Wright.
- Norfolk House, Exchange Street, Norwich. Architect: Alec Wright.
- 3 Agriculture House, Ber Street, Norwich. Architects: Berry, Crane and Noble.
- 4 Offices for Norwich Building Society, Norwich. Architects: E, and G. Buckingham.
- 5 Offices for Weights and Measures Department. C. H. Thurston, County Architect.
- 6 Offices, Cathedral Street, Norwich. Architect: Leslie Hunt.
- 7 Offices for Leeds Building Society, Norwich. Architect: Leslie Hunt.
- 8 Offices for factory, near King's Lynn. Architect: Harold Marsh (of King's Lynn).



10



MORE POST-WAR OFFICES



- 9 Offices in Fishergate, Norwich. Architects: Berry, Crane and Noble.
- 10 Offices in Ber Street, Norwich.
- Architects: Skipper and Partners.

  11 Proposed offices, Loddon, for Loddon
  RDC. Architects: Tayler and Green.

#### THE ARCHITECTS OF NORWICH continued



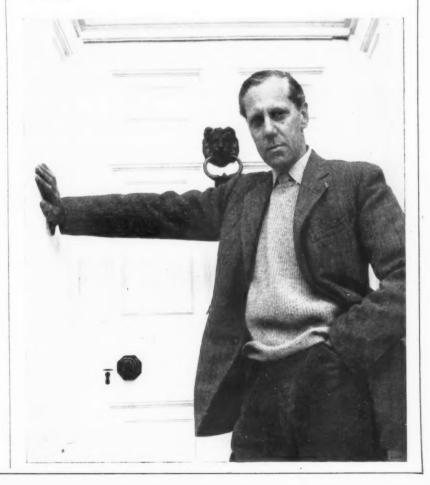
#### C. UPCHER

ARCHITECT IN PRIVATE PRACTICE Cecil Upcher, 72, has the most picturesque office in Norwich, Pulls Ferry. He restored this Ferryman's 17th century cottage in 1947, as well as the mediaeval Watergate, now a Girl Guides' HQ. (The Ferry lapsed during the war but the boat is still to be seen.) Landward approach to Watergate is one-time line of canal used for delivering Caen stone for building the Cathedral. Born in Norfolk, father a parson (family name supposedly derives from description of the "people from the Upshires"). Articled to Edward Warren and studied at Liverpool School of Architecture. Set up practice in 1904, and is concerned mainly with church restoration, the design of church furniture and houses. Likes Georgian adaptations; dislikes "this modern stuff." His one sport is fishing in Devonshire.

#### J. F. WATSON

ARCHITECT IN PRIVATE PRACTICE

John Fletcher Watson, 42, shares office with uncle, C. Upcher, at Pulls Ferry. Staff of five shared between them. Great grandfather, architect J. B. Watson, was practising in London in the 1840's. Studied at the Royal Academy School of Architecture under C. De Gruchy (Silver Medallist 1936). Work for Sir Aston Webb and Son included participation on Government House, Cyprus. Has been in practice in Norwich since 1947; one of his best works is the new church at Bawdeswell (page 582). Work on hand includes school additions, bank alterations, houses and cottages and repairs and alterations to churches and country mansions. Feels architecture of this country should be contemporary with it and should not copy past styles. But he believes that traditional materials can and should be used with originality in modern work. Has leanings towards American Colonial. Hobbies include painting in water colours, visiting picture galleries (Constable, Turner, Cotman), classical music and Glenn Miller type of jazz, ballet, fox hunting, tennis. Pets include one horse, two ponies, one Labrador dog. Likes country life, mountains, trees, music, vintage motor cars. Dislikes ribbon development and badly-designed lamp-posts. Lives near Wymondham in small red-brick Georgian house buried in the country.



#### E. H. AND G. S. BUCKINGHAM

ARCHITECTS IN PRIVATE PRACTICE



Ernest Hugh Buckingham, 82, went to his office in Tombland in 1936. No assistants. Father a shoe retailer and one of seventeen children. Norwich family. Articled to A. C. Habers after having been apprenticed to a building contractor until 21. Founded firm in 1896 with surveyor B. B. Morgan, separated in 1936. Surveys about seventy buildings a month for the Norwich Building Society. Likes bowls (roving Jack), fishing (the best at Woodbastwick Broad), snooker, billiards. Daughter is a sculptress and other son also an artist. Recommends visit to Elm Hill, a coffee in the Britten Arms and a look inside the Stranger's Club. Was responsible for returning statues of Samson and Hercules to their rightful position outside the building (now a dance hall) in Tombland.

Geoffrey Sambrooke Buckingham, 53, was articled to his father. Worked for Hubert Lidbetter, Sir Giles Scott, William and Edward Hunt. Joined his father in 1936. Works mainly on church repairs. Has designed first permanent holiday camp in Norfolk at Gorleston. Likes figure skating, sketching, gardening and Scottish country dancing. Recommends a prowl round the central market on a Saturday morning.

#### WEARING AND HASTINGS

ARCHITECTS IN PRIVATE PRACTICE



Stanley J. Wearing, 75, has a small office in Bank Plain and "an invaluable secretary of 30 years standing." Was born in Wiltshire and articled to Coles and Johnson of Market Harborough. Interrupted training to

join up for the South African war. Worked for Everard and Pick of Leicester before buying a practice in Norwich 45 years ago (after an inspection whilst on holiday with his fiancee at Lowestoft). Married on the strength of a commission for 50 cottages from the Thetford RDC (original price £130 each, recent expenditure £600 each on improvements.) Largest job on hand is shops for Norwich Co-op. Prefers style "based on the Georgian." Eldest son is practising architect near Croydon. Is eldest living P.P. of the Norfolk and Norwich

Association of Architects, and the only one to be elected twice. Was President on the last occasion of the Conference in Norwich (1926). Author of five books including "Georgian Norwich—its Builders" (1926), "Beautiful Norfolk Buildings" (1944), and "More Beautiful Norfolk Buildings" (1947)—all illustrated with his own drawings. President of the Norfolk and Norwich Archaeological Association. In his capacity as investigator for the NBR has visited all 650 Norfolk churches (cycling from the nearest station—a mode of transport continued until last year). Authority on civic sword and mace rests and Royal Coats of Arms in the area. Recommends a visit to the Water Mill at Coltishall, eight miles out on the Wroxham Road and the Thatched Crown Pub at Pulham Market, fourteen miles out on the Diss Road.

Barry C. C. Hastings, 32—father a Norwich schoolmaster, forefathers Norwich leather merchants—was articled to Wearing, then worked for Wright and Mason and Sir John Brown, A. E. Mason and Partners. Joined Wearing's in 1953. Feels he is a modernist at heart; admires work of Lloyd Wright. Interests include TA. Recommends visit to the Norfolk coast between Cromer and Bacton; also Holkham, with its sand-dune-surrounded bay with pine trees to the water's edge.

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#### D. E. PERCIVAL

CITY ARCHITECT

David Eyre Percival, 41, became Norwich's third City Architect in November, 1955, (predecessors Nelson Meredith and Leonard Hannaford). Office on top floor of the City Hall overlooking the Market Place. Staff of 50, including 21 qualified architects. Born in London; father a professor of singing at the Royal Academy of Music. Studied at the Bartlett (quarrelled violently with Richardson). Influenced by Salvisberg of Switzerland, Kajmøller (University of Aarhus), and Thomas Sharp. Has worked for Miners' Welfare, Farmer and Dark, Malcolm Glover, local government at Kent and Newport (where he qualified as town planner and met his wife), MOTCP, East Kilbride and Coventry. On arrival at Norwich started by redesigning bus shelters and public lavatories. Has produced a comprehensive plan for the Vauxhall Street area (316 dwellings, twelve types). Main battle is against the stereotype. Appropriation is £,800,000 per year. Feels the best contemporary work is done by those who have a catholic understanding of the past. Likes urban landscape. Hopes to build central library, the first in the UK since the war (on a site next to Norwich Town Hall). Activities include housework (unwillingly), broadcasting (recently, a Norfolk round-up: forthcoming, "Outrage" programme with Sir Hugh Casson). Likes Norwich because it is a regional centre without urban rivals and its isolation has made it possible to retain an individuality of culture (one amateur theatre with eleven shows a year-two other theatres). Notes that there was less re-building in the 19th century in Norwich than anywhere else. Recommends a visit to Tombland which has "a very Continental flavour." (Examples of his work are illustrated on pages 577-579.)

#### C. A. GOLDING

ARCHITECT IN PRIVATE PRACTICE

Cecil Arthur Golding, 55, is staff architect to Youngs, Crawshay & Youngs, one of the big four Norwich brewers. He has his office in the Music House, one of the three Jew's houses in the county, one-time meeting place of waits and the Norwich players. Father a schoolmaster. Articled to the now-extinct Reading firm of Millar & Son. Later qualified as chartered surveyor. Spent 21 years as chief assistant architect to the Brighton brewers, Tamplin and Sons. Has been 13 years Likes the with present firm. "Georgian style." One of the few



elected council members of the Norfolk and Norwich Architects Association. Also Committee Chairman of the Regional Branch Surveyors' Institute. His home, sham-Tudor. Recommends a visit to pre-Elizabethan Adam and Eve in Bishopgate, the White House, Attleborough (reed thatch, 15 miles out on the AII), and the Dolphin at Diss.

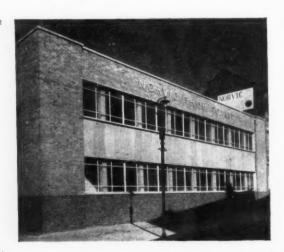


"A fine city, NORWICH"

Coslany Street, Norwich.

- Proposed stores for Pitt Broi Ber Street, Norwich. Architect: Claude Lister.
- 2 Sandal factory, St. George Street, Norwich. Architects: Wearing and Hastings.
- 3 Stores for Messrs. Herring Industries, Ltd., Whapland Road, Lowestoft. Architect: Thomas F. Trower.

# POST-WAR INDUSTRIAL BUILDINGS













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and Everard, Ltd.,
Norwich. Architects:
Edward Boardman
and Son.
6 Farm buildings.

4 and 5 Canteen for Sexton, Son

6 Farm buildings, Buxton, Norfolk. Architect: W. A. J. Spear.

7 Factory, Salhouse Road, Norwich. Architect: W. A. J. Spear.

8 Canteen and store, Mile Cross, Norwich. Architects: A. F. Scott and Sons.

9 Canteen for Messrs. Lincolnshire Canners, Ltd., King's Lynn. Architect: Guy Bishop (of King's Lynn).

10 Factory for Boulton and Paul, Norwich. Architects: J. Owen Bond and Son.

11 Fletchers Works, Norwich. Architects: A. F. Scott and Sons.

12 Showroom for Ben Burgess Tractors, Ltd., Norwich. Architects: Berry, Grone and Noble

13 Warehouse in Calvert Street, Norwich. Architect: J. P. Chaplin.





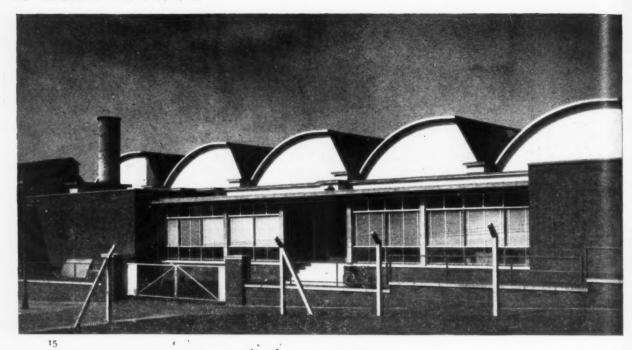








12 and 13





15 Bally Shoe Factory, Lowestoft, Suffolk. Architects: Berry, Crane and Noble.

16 and 17 Harmers Factory, Norwich. Architects: Edward Boardman and Son.





## THE ARCHITECTS OF KING'S LYNN, LOWESTOFT AND YARMOUTH



H. G. BISHOP

Lowestoft

orwich.

Boardman

Berry, Crane

ARCHITECT IN PRIVATE PRACTICE Hugh G. Bishop, 47, occupies Victorian-type office building near Cattle Market, King's Lynn. Staff of six, including typists. Father a mining engineer; studied at University College, Nottingham (engineering and surveying) and at AA. Worked for W. B. Sharr and Hall, Nottingham, Boots Cash Chemists, Nottingham Corporation, Ministry of Health and Cornell, White and Webster. Formed partnership with Webster in 1950 and set up own practice in 1955. Work includes hospital, factory, housing and schools. Likes factory and domestic work; wants to make a reasonable living and run a happy office. Likes riding and crewing 12-ft. Nationals and 12-square-metre " super-Sharpies. Dislikes the modern" buildings as he thinks that they are unrealistic, that they cut right across the traditional way of English life. Likes "modernized Georgian" architecture. Has no place for glass designers.

#### H. MARSH

ARCHITECT IN PRIVATE PRACTICE;

Harold Marsh, 54, claims to have had the largest architectural practice in Norfolk (35 assistants, housing for five local authorities). Office in King's Lynn was once a public house and part of a brewery. Born in East Grinstead and started life as land agent's assistant, which brought him to King's Lynn in 1934, at



which time he set up as an architect. Post-war jobs include that of inspector of housing at Sandringham. Designing houses for two local authorities. President of Norfolk County Golf Union; county vice-president of the Norfolk and Norwich Association of Architects; vice-chairman for local Conservative ward. Also on executive committee of the National Association of Almshouses, honorary clerk of two charities. Would like to own 25-acre plot and build his own house on it.

#### J. E. MIDDLETON

ARCHITECT IN PRIVATE PRACTICE

J. Ellis Middleton, is a qualified engineer, surveyor and architect. Founded his firm in 1927 and practises in King's Lynn. Staff of six. Served articles with Arthur Hindle of Blackpool and Manchester near the beginning of the century. Has worked for Brierley, Holt and Co. of Blackburn, Blackpool and Manchester;



the Board of Inland Revenue and Blackpool Corporation. Since 1920 has restored many churches in Norfolk. Has built a canning factory, banks, shops and housing. Is at present engaged on extensions to a school, a rectory and a bank. Favourite work is church restoration. Favourite personalities, Sir Winston Churchill, Sir Albert Richardson and Sir Laurence Olivier. Likes the theatre, cricket, music. Dislikes "ultramodernism" in art and architecture, demagogues. Author of some fourteen novels. Started with "Road of Destiny" as therapy for nervous breakdown. Best novels, he says are "Vaulting Ambition" and "My Lord Greystark;" local setting to be found in "Morella the Gypsy."



#### R. B. CORLESS

Richard Bolton Corless, 36, runs
Lowestoft branch of Skipper and
Partners (see page 597). Born in
Lancaster, father a farmer and
publican. Articled to J. Harrison
(Liverpool University) and studied at
Birmingham School under Douglas
Jones. Worked for A. G. Berry:
became a partner of Skippers in
1953. Biggest building is the recentlycompleted South Pier pavilion at
Lowestoft. Loathes neo-Georgian designs. Likes cricket.



#### H.R. LISTER

Herbert Robert Lister, 39, runs a small office with two assistants in Great Yarmouth. Was born in Lowestoft. Has worked for West Hartlepool, Middlesbrough and Jackson in the Yarmouth Education Department. Set up practice in 1954: is designing bungalows, shops and a bakery. Likes the Modern Movement, Gropius, Breuer, sailing and the Broads. Lives on a houseboat at Burgh Castle.

#### TAYLER AND GREEN

ARCHITECTS IN PRIVATE PRACTICE

Herbert Tayler (right), 44, was born in Java. Father a sugar exporter. Grandfather an engineer. Mother Dutch. Studied at the AA. Associate of the ILA. Used his Henry Florence Travelling Scholarship to study Charles Rennie Mackintosh buildings in Scotland. Might have become an organist (studied at Westminster Abbey whilst at the AA). Likes contemporary music, gardens and travel. Lives in remote mid-Victorian house near Bungay with self-designed garden; runs a Zephyr. Teamed-up with Green on a thesis design at the AA (opera house in Regent's Park). Started practice together in London, 1939, but transferred after the war to Lowestoft where Green's father had practised for 50 years. Their office overlooks a ravine and park developed by a mid-Victorian railway baron.

David John Green, 44, was born at Lowestoft and studied at the AA. Hobbies include photography (with a half-plate camera) and fast cars (latest is Triumph sports model with substituted Zephyr engine). Partnership has designed over 400 houses for Loddon RDC. Also for Lothingland RDC, houses in London and on the Broads and buildings for Imhof. Largest job on hand is a plan for the total reconstruction of St. Luke's Hospital, Lowestoft. Awards include medal from MOHLG for housing at Windmill Green, Ditchingham, and FOB award for housing at Loddon.





F. JACKSON

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ARCHITECT TO YARMOUTH EDUCATION COMMITTEE

Frank Jackson, 43, heads a department founded in 1950 from a nucleus of assistants in the school section of the borough engineer's department. Office was once a pair of Victorian houses near the sea. Articled to A. R. Gradwell and Sons, Blackburn, studied at the Blackburn School of Architecture (School of Art) under F. Chippindale. Later became Chippindale's assistant. Has also worked with LCC architects (Schools Section), Morecambe C.B., Enfield, B.C., Ealing B.C. and Rotherham C.B. Biggest job to date is technical high school worth £212,000. (Distressing problem is the shortage of land in the district). Ambition is to enlarge the scope of practice. Dislikes gardening. House is detached, 1922 vintage, architect-designed, on Gorleston cliffs. Wife is teacher of ballet.



G. M. PEGG

ARCHITECT IN PRIVATE PRACTICE

Graham M. Pegg, 35, has been in practice for two months. Office and home are situated in a "possibly-Georgian" house originally in about three acres of wooded grounds on the High Street at Gorleston. He was articled to W. J. Dunham and studied part-time at Norwich School of Art. He gained most of his experience and training whilst assistant in the borough engineer's office and the school architect's department of Great Yarmouth. Work on hand includes a group surgery, houses and a holiday accommodation scheme similar in function to the American motels. Hobbies include woodwork, particularly the design and making of furniture (all his living room furniture, except chairs) and maintaining his car, including major overhauls and decokes.

#### A. W. ECCLESTONE

ARCHITECT IN PRIVATE PRACTICE



Arthur W. Ecclestone, 55, director and Surveyor to E. Lacon and Co., Yarmouth brewers, took over the job of surveyor in 1938. His office overlooks one of the biggest brewer's yards in the provinces. Four assistants. Grandfather was a builder. Father and son both articled to same architect, J. W. Cockrill, borough surveyor at Great Yarmouth for 49 years. 625 jobs (including five new pubs) completed since the war. Prefers "Georgian style" and recommends the Customs House at Great Yarmouth as a good example. Interested in local archaeology and history. Is local councillor, magistrate and chairman of the housing committee. Has built sea-front house in a contemporary (he says) style. Recommends walk round Yarmouth walls and down some of the remaining 145 rows (narrow east-west alleyways connecting north-south roads), named after pubs at one or the other end.



The Cathedral Close, Norwich.

"A fine city, NOR WICH"

### POST-WAR HOUSING

- 1 Old people's cottages, Mousehold Heath, Norwich. Architect: Cecil Upcher.
- 2 Wicken Farm House, near Norwich. Architect: J. Fletcher Watson.
- 3 Children's reception home, East Deveham, Norwich. G. H. Thurston, County Architect.
- 4 Police sergeant's house for Norfolk County Council. County Architect: C. H. Thurston.
- 5 Fire Officers' houses for Norfolk County Council. County Architect: C. H. Thurston.
- 6 Housing for Swaffham RDC. Architect: W. A. J. Spear.
- 7 Proposed housing for Thetford. Architect: Claude Lister.
- 8 House in Norwich. Architect: W. A. J. Spear.
- 9 At Spixworth, Norwich. Architect: W. A. J. Spear.
- 10 Agricultural cottages, Ashill. Architect: W. A. J. Spear.







































11 At Cliff Hill, Gorleston. Architect:

12 At Victoria Road, Gorleston. Architect:

13 At Youell Avenue, Gorleston. Architect:

14 At Borrow Road, Oulton Broad. Architects: Skipper and Partners. (Partner in charge of job: R. Corless.) 15 At Borrow Road, Oulton Broad.

Skipper and Partners.

J. P. Chaplin.

Dewing.

19

R. H. Lister.

R. H. Lister.

H. R. Lister.









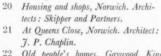












22 Old people's homes, Gaywood, King' Lynn. Architect: Harold Marsh.

At St. John's Terrace, King's Lynn. Architect: Harold Marsh.

24 House at Horning. Architect and client: A. D. Cooke.







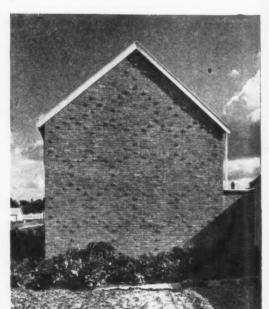
#### MORE POST-WAR HOUSING

















34

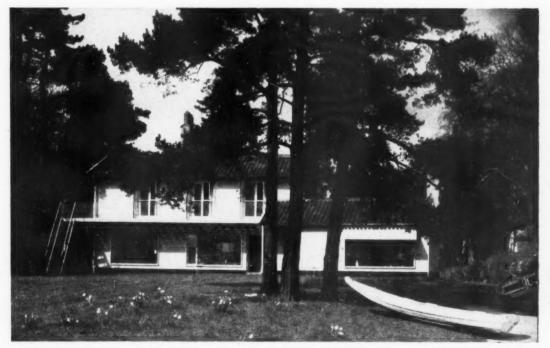
Details from some of the many housing estates designed by
Tayler and Green for Loddon
RDC. (See map showing sites in the AJ Norwich Guide, May 24.)

35 and 36 "North Landing": a house

an the Af Norwich Guide, Ma 24.)
35 and 36 "North Landing": a house overlooking Oulton Broad, designed by Tayler and Green for the photographer, Ford Jenkins.



30



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47, 49, 51, 52









43, 45

- At Kings Lynn. Architect: Harold Marsh (of Kings Lynn).
- Rectory at Grimston, Kings Lynn. Architect: Guy Bishop (of Kings Lynn).
- At Guyton Road, Kings Lynn. Architect: Ellis Middleton (of Kings Lynn).
- At Stoke Holy Cross, Norwich. Architect: Clifford Dann.
- At Diss. For UDC. Architect: Clifford Dann. 42
- At Bawburgh. Forehoe and Henstead RDC. Architect: Clifford Dann. 43
- At Great Melton. Forehoe and Henstead RDC. Architect; Clifford Dann.
- At Trowse Newton, Forehoe and Henstead RDC, Architect; Clifford Dann.
- 46 At Chapelfields, Norwich. Architect: J. Owen Bond and Son.
- 47 Flats, Old Palace Road, Norwich. Architects: Berry Crane and Noble.
- At Cringleford, Norwich. Architects: Wearing and Hastings.
- Rectory, Attleborough. Architects: Berry, Crane and Noble
- At Upton Close, Norwich. Architects: Wearing and Hastings.
- At Cringleford, Norwich. Architects: E. and G. Buckingham.
- At Cringleford, Norwich. Architects: E. and G. Buckingham.







46, 48, 50

BOARDS

ner," London

The British Transport Commission's new Passenger and Cargo Building at Southampton

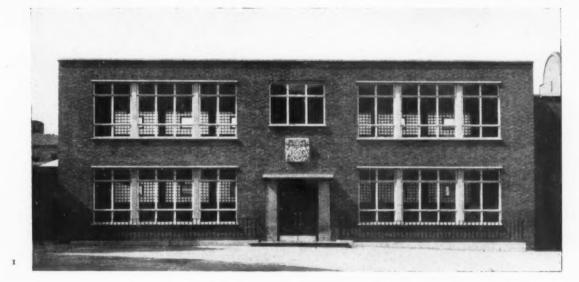
## Main waiting hall and auxiliary rooms decorated and furnished by

### HEAL'S CONTRACTS LTD.



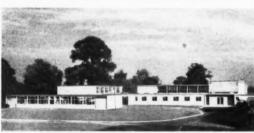
The main waiting hall and auxiliary rooms of this new ocean terminal were designed and executed by the Marine Design section of Heal's Contracts department under the direction of A. W. Skeels, M.S.I.A. Every item, right down to the last chair, was designed especially for the occasion. Work began early last September with the erection of the upper and lower ceilings and free form centre section. The entire work was completed for the official opening in January this year.

Immigration Hall: natural Honduras mahogany panelling with radiused walls in shallow slatted sections of the same wood; main columns in Genoa marble; Customs' console desks and stools of limed oak; pale lime ceiling; thick lino flooring in dove grey; wall seating covered in dark blue hide. The whole of this work was carried out in collaboration with the docks engineer, Mr. J. H. Jellet, O.B.E., M.I.C.E., and Mr. C. B. Dromgoole, L.R.I.B.A., as architect. thampto



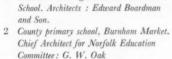


## POST-WAR SCHOOLS

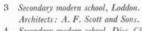








1 Extension to King Edward VI Grammar



- 4 Secondary modern school, Diss. Chief Architect for Norfolk Education Committee: G. W. Oak
- 5 Secondary modern school, Swaffham. Architect: G. W. Oak.
- 6 Junior school, North Lynn, Kings Lynn. Architect: G. W. Oak.



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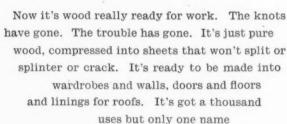
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I knew it when it was a tree . . .





## Bowater Board

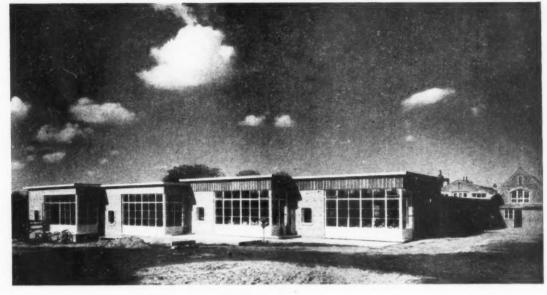
(you used to know it as Lloyd Board)



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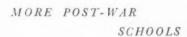












7 and 8 Junior school, Redenhall. Architect: J. Fletcher Watson.

9 Technical high school, Gorleston, near Great Yarmouth. Chief Architect to Yarmouth Education Committee: Frank Jackson.

10 Infants' school, Kings Lynn. Architects: J. Owen Bond and Son.

11 Herman infants and junior school, Great Yarmouth. Architect: Frank Jackson.

12 Peterhouse school, Great Yarmouth.
Architect: Frank Jackson.

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SECONDARY SCHOOL FOR THE L.C.C.

J. L. MARTIN, M.A., Ph.D., F.R.I.B.A., ARCHITECT TO THE COUNCIL

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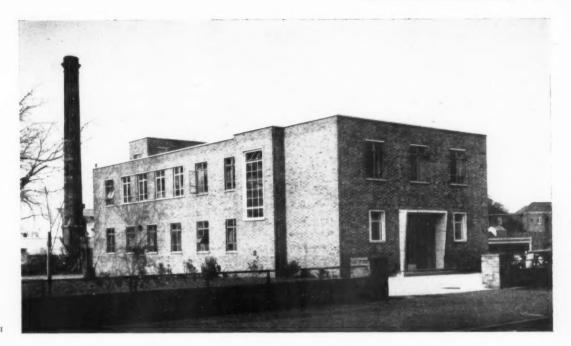
WINDOGRID with swing ventilators, metal window boards and blind boxes. Rough-cast glass at floor levels covers painted surfaces within. Panels covering stairs and cloakrooms are 'glazed' with mahogany veneer plywood, and fixed glass louvres inserted where required.

Send for List 295

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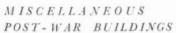












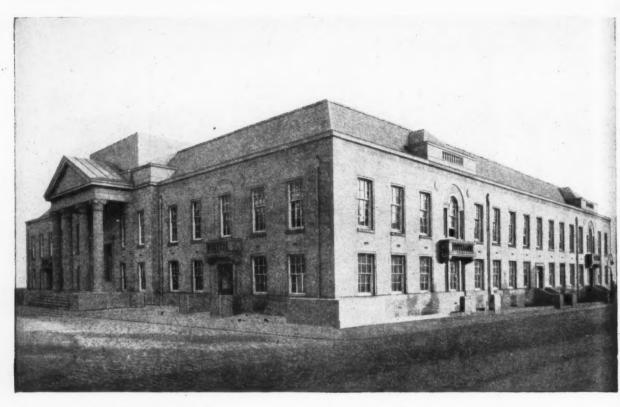
- 1 Public health laboratory, Medical Research Council, Bowthorpe Road, Norwich. Architects: Edward Boardman and Son.
- Divisional police H.Q., Dersingham.
   C. H. Thurston, County Architect.
- 3 Divisional police H.Q., Kings Lynn. C. H. Thurston, County Architect.
- 4 Surgery, Heartsease Estate, Norwich. Architects: Wearing and Hastings.
- 5 Methodist School Hall, Chapelfield Road, Norwich. Architect: Clifford H. Dann.
- 6 T.A. Drill Hall, Kings Lynn. Architect; W. A. J. Spear.



2, 3







By courtesy of the County Borough of Burnley and the main contractors Leonard Fairclough Ltd.

Architects: Messrs. Bradshaw, Gass & Hope Sub-Contractors: Messrs. William Livesey & Sons (Blackburn) Ltd.

### THE NEW BURNLEY POLICE HEADQUARTERS

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7, 8, 9

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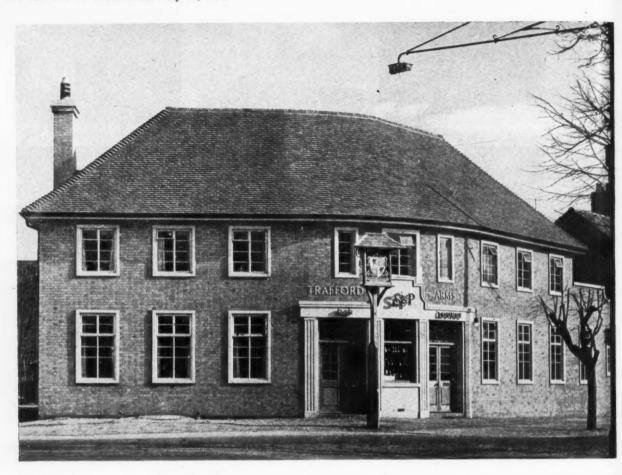
 Village hall, Felbrigg.
 Architects: Purcell and Johnson.
 South Pier pavilion, Lowestoft. Architects: Skipper and Partners. (Partner in charge of job: R. Corless).
 Proposed holiday accommodation, Gorleston. Architect: Graham Pegg.
 Proposed group surgery, Gorleston. Architect: Graham Pegg. 8, 9 and 10

**ERS** on of this outward

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DNES 2641 TERING



## On a Wide Front . . . . Ibstock Golden Brown

SANDFACED WIRECUTS

Of the many materials used for the frontage of the ubiquitous English pub, none is more widely successful than the age-old facing brick. This example, one of a number recently built in the Norwich area with Ibstock facings, makes good use of Ibstock Golden-Brown sandfaced wirecuts.

## **Ibstock**

**FACING BRICKS** 

IBSTOCK BRICK & TILE COMPANY LIMITED, Near LEICESTER London: L.M.R. Goods Depot, Wright's Lane, Kensington, W.8.

Architect: Eric Smith, L.R.I.B.A.,

Architect's Office, Steward & Patteson Ltd.

Contractors: Stephenson & Evans, Norwich.

Bricks supplied through: Builders Direct Supply Co. Ltd. Norwich.

Owing to present demand, supplies of facings of most types are booked for a long time ahead, and reservations for 1956 1957 are now being made.

Phone: Ibstock 591 (2 lines) Phone: Western 1281 (2 lines)



S. W. Milburn, F.R.I.B.A. Arthur 7. Willis, F.R.I.C.S. F. W. Gregory, A.R.I.B.A. R. D. Butterell, M. 7. Huckstepp and T. P. Garwood-Jones, A./A./A.R.I.B.A. Misha Black D. 7. Wager

#### Letter From A Nominee

J. I. Bernard, (of B.E.D.A.)

SIR,—As a Fellow nominated for election to the RIBA council I would like to take advantage of the opportunity the JOURNAL gives to express briefly my views on the more important issues in front of our profession.

I consider the most urgent pressing need is to improve the outlook for our young qualified architects to enter into the practice qualified architects to enter into the practice of architecture, with prospects similar to those given to the young medical student. I consider that both in private practice and public employment "too much is being done by too few," and that under present arrangements and conditions the young architect has a very slender chance of obtaining commissions to design buildings.

S. W. MILBURN.

Sunderland.

#### Q. S. Author Replies

Sir,—Might I make some comment on the natural and very useful criticism of "More Advanced Quantity Surveying" made by the reviewer in your issue of April 19?

I did consider substituting two or three new examples from more "contemporary" new examples from more "contemporary" drawings, where the drawings appearing are rather "dated," but this would have added substantially to the cost of the book. It is only because standing type 16 years old is used, corrected in each edition, that the price can be kept down to the present level. I felt that the student would rather have the extra 10s. or so in his pocket, and put up with the need for using a little ingenuity (which is good for him) instead of being spoon-fed (which isn't!).

The principles governing the measurement

The principles governing the measurement The principles governing the measurement of heating services are substantially the same as for cold water services under the Standard Method. I agree that an example would be useful, and I will certainly examine the possibility in the next edition. It means, however, more hand-set type, another drawing and, therefore, a higher

price.
Electrical work I have only had to measure for tenders once—and that for a small house—in a practice of over 30 years (and I think I pressed for it, as I wanted to experiment!). To measure it properly one must have complete circuit diagrams and a very good knowledge of wiring practice, though, of course, measuring finished work with an electrician at one's elbow is easier. This trade should never have been included in the Standard Method for use by the normal practitioner, though I have no doubt normal practitioner, though I have no doubt that there is scope for specialists in that branch of quantity surveying.

Your reviewer's point on repetitive work is a very good one. The main difficulty in dealing with the re-use of formwork is that it must be the contractor's responsibility to decide how many times he can re-use it: this is part of his organization, with which the quantity survey must not interfere. Under the Standard Method, as it stands, the tenderer must, for in-situ work, form his opinion from his inspection of the drawings. Perhaps the contemplated revision of the Standard Method will take the new circumstances into consideration.

Finally, may I emphasize the reviewer's closing paragraph: "A knowledge of the work of the Quantity Surveyor, the type of drawings and the information and specification and s Quantities, should be part of the Architect's training if both professions are to work efficiently. "If only architectural schools ciently . . . " If only architectural schools would invite the co-operation of quantity surveyors and builders in giving instruction, it would make all the difference to efficiency on the "business side." Is it very tactles to whisper the possibility of the blind leading the blind?

ARTHUR J. WILLIS

F. W. GREGORY.

London.

The Unqualified Architect

SIR,-First of all I should like to say that SIR,—First of all I should like to say that none of the remarks in my letter were directed against assistants who have been prevented from qualifying by war service or other abnormal difficulties. All that I wished to point out was: (a) It is difficult for the RIBA to help assistants who remain outside the Institute. (b) The special final transition is designed to give entry to the examination is designed to give entry to the RIBA for competent and experienced assistants. (c) That if high salaries and responsibilities are given to unqualified assistants, it discourages those attempting to

ants, it discourages those attempting to qualify from doing so.

I would support the suggestion that some minor qualification should be considered by the RIBA. This point could be considered by the new department being set up within the Institute to study salaries and office establishment.

London.

#### Architectural Cars Wanted

SIR,--Congratulations on your excellent account of the Silverstone Trophy Meeting (May 10) which would have done credit to some of our motoring magazines. Your comment on our moribund motor industry seems particularly apt—we wonder if the industry is interested in design, for the examples of coffee-bar-type cars we see around lead us to believe otherwise. When is our industry going to produce cars as "archiindustry going to produce cars as "archi-tectural" as the Fiat 600, Renault Dauphine, Porche, and Citroen DS19? We feel that a large number of our profession is interested in motor car design, not only as seen in vintage and veteran cars, but also in the

more progressive contemporary models. We look forward to seeing "carefully used racing cars" advertised in the back pages

of the JOURNAL.

R. D. BUTTERELL, M. J. HUCKSTEPP,

T. P. GARWOOD-JONES.

#### Architecture At The Academy

SIR,-Visiting the architectural room at Burlington House was a depressing experience insufficiently alleviated by the high quality of many of the designs there displayed. Jumbled together with scant ceremony in a corner of the Academy pan-technicon, this display does little service to British architecture or to the visitors whom it presumably intends to delight or impress.

As public interest in architecture increases

there is surely need either for architecture to have a better showing at the Royal Academy or, preferably (since buildings now sit uneasily under the Academy umbrella), for a separate exhibition of designs for projected buildings to be staged.

It should be the privilege of the RIBA to promote this separate exhibition, and if the benediction of the Royal Academy is of importance to some architects, perhaps the Academicians could be persuaded to visit the internal process. the sister show and from the work there exhibited decide whom they should honour. MISHA BLACK.

London.

Easy Filing

SIR,—I would like to take this opportunity of congratulating you on your new layout, another step you have taken in helping to sort out the problem of "Information for the Architect" the Architect.

the Architect."
Filing is now a pleasure, devoid of the painstaking decisions such as which side of the page to file under what heading, and most of all "turn to page so and so."

D. J. WAGER.

#### **Electrical Information**

SIR,—We were interested to read your contributor's comments on the recent Electrical Engineers' Exhibition (April 26) and in particular his remarks on the Electrical Data sheets which we publish from time to time.

It is natural that architects should wish to know how the use of electricity compares with various types of fuel for particular purposes, but it is not possible to discuss this matter in detail, and give sufficient information to enable him to make a selection, in 1,000 words, which is the average length of text in a data sheet.

With regard to the data sheet on electric floor warming, with which your contributor is principally concerned, this system is not urged now in inappropriate circumstances, as he states. The opening sentence, for example, states: "it offers considerable advantages over other forms of continuous heating in many present-day conditions," and the first paragraph on page 2 concludes "operational costs are reasonable, especially for buildings which are in continuous use or are occupied for long periods of time." Both these qualifications give some indica-tion, as your contributor would wish, as to the most favourable conditions for its use.

Obviously thermal storage heating by electricity becomes more attractive as the offpeak tariff becomes more favourable, but apart from relative prices, there will always be the need to encourage off-peak use in order to obtain more efficient loading of

generating plant.

As for the "most economic" system, it is well to remember that, in practice, the choice of one method of heating in preference to another can rarely be decided solely on the estimated cost of providing so many B.Th.U. Many other factors are involved. for example convenience, cleanliness, reduced maintenance, automatic control, absence of labour, all of which have widely different degrees of importance attached to them by different clients.

London.

J. I. BERNARD.

Smith, R.I.B.A., son Ltd.

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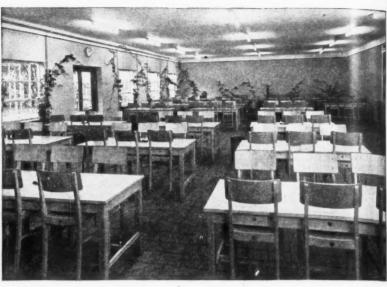
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#### Correction

The words in italics in the following sentence were inadvertently omitted from the note about architects' sign-boards which appeared in the JOURNAL for May 17. Single board, £6 2s.; four boards, £5 1s. per board; eight boards, £4 13s. per board; twelve boards, £4 6s. per board. (In addition, the price for single boards was given as £6 3s. by mistake.)

#### Acknowledgment

The architects concerned in the designs by the City Architect's Department, Norwich, shown on pages 577-579, are as follows:—deputy city architect: C. J. Tomkins; chief assistant (housing): C. Heathcote; chief assistant (schools): J. Pogson; chief assistant (general): M. Gooch. The architect-in-charge of the Secondary Technical School project is H. J. Barber. The architect-in-charge of the central library project is A. Miller-Forward. The architect-in-charge of the Vauxhall Street project is J. R. Leeks, The sketches were by B. Annable, K. Graham, J. R. Leeks, A. Miller-Forward, B. Moore, and R. Thompson.

#### Buildings Illustrated

New offices for Norwich Union Insurance Societies, Upper King Street, Norwich. (Page 576.) Architect: Robert Owen Bond, F.R.I.B.A., A.A.DIPL. General contractors: H. G. Carter Ltd. Sub-centractors: Steelwork: Robert Stevenson Ltd. Electrical installation: Messrs, Yaxleys. Hot water and heating: Wm, Freer Ltd. Stonework: Saunders (Ipswich) Ltd. Lifts: Waygood-Otis Ltd. Metal windows: Crittall Manufacturing Co. Ltd., Sanitary fittings: R. J. Pryce & Co. Reinforcement: Twisteel Reinforcement Ltd. Flooring: The Granwood Flooring Co. Ltd.; Acme Flooring & Paving Co. (1904) Ltd. Terrazzo floor: Marbello & Durus Ltd.

St. Mary's Baptist Church and School Buildings. (Page 581.) Architects: Wearing & Hastings, F./A.R.I.B.A. General contractors: J. Youngs & Son Ltd. Subcontractors: Heating: W. Freer Ltd. Electric lighting: A. Pank & Son Ltd.

Catholic Church, Wymondham, Norfolk. (Page 581.) Architects: Purcell & Johnson, F./F.R.I.B.A. General contractors: John Cochrane Ltd.

Catholic Church Hall, West Earlham, Norwich. (Page 581.) Architects: Purcell & Johnson, F./F.R.I.B.A. General contractors: J. Youngs & Son Ltd.

Church at Waddington, Lincolnshire. (Page 581.) Architects: Skipper & Partners, A.R.I.B.A. Quantity surveyors: Ashford, Trower & Waller. Consultants for reinforced concrete: Considere Constructions Ltd. (London). General contractor: Wm. Wright & Sons Ltd. Sub-contractors and suppliers:—Roof: Concrete Co. Ltd. Roof finish: Standard Flat Roofing Co. Glazing: Morris Singer Ltd. Bells and bellframe: John Taylor. Cork flooring: Cork Insulation and Asbestos Co. Stonework: The Gregory Quarries (Mansfield). Electrical installation and heating: A. Scott & Son. Light fittings: Hume Atkins Ltd. Paint: Lewis Berger Ltd. Door furniture: Parker Winder & Achurch. Wrought ironwork: Fredk. Coldron & Son.

Carmelite Monastery, Quidenham, Norfolk.
(Page 582.) Architect: F. M. Dewing,
A.R.I.B.A. General contractors: Mcssrs.
E. H. J. Macro. Sub-contractors: Steelwork:
Dawnays Ltd. Heating: W. J. Taylor
Ltd. Plastering and paving: Crotch &

Son Ltd. Steel windows: Crittall Manufacturing Company Ltd. Stonework: Arthur Potter. Leaded windows: G. G. King & Son (Lead Glaziers) Ltd. Stained glass windows designed and executed by Miss M. E. Aldrich Rope, F.B.S.M.G.P. Oak block flooring: Hollis Bros. Ltd. Lightning conductors: W. J. Furse Ltd. Bell and clock: John Taylor & Co. Semtex flooring: Limmer & Trinidad Lake Asphalt Co. Ltd. Facing bricks: Builders Direct Supply Co. Ltd. Light fittings: Hubbard Bros. Ltd. Electrical work: G. A. Lee Ltd.

Bawdeswell Church, Norfolk. (Page 582.)
Architects: Cecil Upcher and J. Fletcher Watson, F./A.R.I.B.A. General contractors: H. C. Greengrass & Sons Ltd. Sub-contractors: Church furnishings, organ case, light fittings; tower (including spire and weathercock): H. E. Taylor & Co. Ltd. Electrical installation and heating: Beaven & Sons Ltd. Ancaster stone font, external stone carving: A. J. Woods & Sons Plastering, acoustic ceiling: Crotch & Son Ltd. Plaster supplied by: Cafferata & Co. Steel work: Barnes & Pye Ltd. Organ building: Messrs. W. & A. Boggis. Steel windows: Morris Singer Co. Ltd. External bricks: High Brooms Brick Co. Pantiles: John Brown & Co. (Bridgewater).

Church at Stowmarket. (Page 582.)
Architect: A. D. Cooke, A.R.I.B.A. General
contractors: Messrs. Sadler & Sons, Ipswich.
Sub-contractors:—Heating: G. N. Haden
Ltd. Steelwork: Dawnays Ltd. Reinforced
concrete floors: The Kleine Co. Ltd. Windows: Crittall Manufacturing Co. Ltd.
Electrical: Mann Egerton & Co. Ltd. Light
fittings: Merchant Adventurers (London)
Ltd. Stonework: Empire Stone Co. Ltd.

"The Sceptre," Great Yarmouth. (Page 586.) Architects: Berry, Crane & Noble. General contractors: H. A. Holmes & Son Ltd.

"The Dial," Beecham Road, Norwich. (Page 586.) Architects: Berry, Crane & Noble, General contractors: R. G. Carter Ltd.

"The Shoemaker," West Earlham, Norwich. (Page 586.) Architects: Berry, Crane & Noble. General contractors: Hugh R. Wilkings Ltd.

"The Raven", St. Giles Street, Norwich.
(Page 587.) Architect: C. A. Golding, L.R.I.B.A. Quantity surveyors: Philip Pank & Partners. General contractors: Bush Builders (Norwich) Ltd. Sub-contractors:—Facing bricks: Ibstock Brick & Tile Co. Ltd. White facing bricks: Fisons, Ipswich. Steel windows and lantern lights: Luxfer Ltd. Cast stonework: Dawber, Townsley & Co. Ltd. Structural steelwork: Barnes & Pye Ltd. Reinforcement: British Reinforced Concrete Engineering Co. Ltd. Asphalt roofing and tanking, semtex flooring: Limmer & Trinidad Lake Asphalt Co. Ltd. Rubber flooring: Leyland & Birmingham Rubber Co. Ltd. Lifts: Aldous & Campbell Ltd. Sanitary fittings and ironmongery: Rownson. Drew & Clydesdale. Plumbing, central heating and hot water: W. J. & F. Taylor Ltd. Fireplaces and tiling: Gale & Galey Ltd. Electrical installation: Johnson Pearce & Co. Ltd. Electric fittings: G.E.C. Ltd. Joinery and panelling: H. E. Taylor & Co. Ltd. Paints: Dixons Paints Ltd. Furniture: G. Attoe & Sons Ltd.

"The Freed Man", St. Mildred's Road, West Earlham Estate, Norwich. (Page 587.) Architect: C. A. Golding, L.R.I.B.A. Quantity surveyors: Philip Pank & Partners. General contractors: Bush Builders (Norwich) Ltd. Sub-contractors and suppliers:—Electrical contractors: Johnson Pearce & Co. Ltd. Hot water and heating: William Freer Ltd. Facing bricks: Builders'

Direct Supply Co. Ltd. Artificial stonework: The Cambridge Artificial Stone Co. Ltd. Steelwork: Robert Stevenson Ltd. Wrought ironwork: Hubbard Bros. Fireplaces and tiling: Gale & Galey Ltd. Bar fittings and panelling: H. E. Taylor & Co. Ltd. Accotile floor tiling: Holmes (Norwich) Ltd. Rubber flooring: Leyland & Birmingham Rubber Co. Ltd. Asphalting: Limmer & Trinidad Lake Asphalt Co, Ltd. Furniture and beer engines: Gaskell & Chambers (London) Ltd. Lift: Aldous & Campbell Ltd. Sanitary fittings: Lacey & Lincoln Ltd. Forecourt pavings: Noelite Ltd. Carlite plaster: Gotham Co. Ltd. Steel windows: Crittall Manufacturing Co. Ltd. Ironmongery: Rownson, Drew & Clydesdale Ltd. Paint: Dixon's Paints Ltd.

"The Castle", Rigbourne Hill, Beccles, Suffolk. (Page 587.) Architect: C. A. Golding, L.R.I.B.A. Quantity surveyors: Philip Pank & Partners. General contractors (Structure): D. Leighton & Son Ltd. Contractor for internal finishings: G. H. Hipperson & Sons Ltd. Contractor for car park: R. G. Carter Ltd. Sub-contractors:—Facing bricks: Builders' Direct Supply Co. Ltd. Asphalting to roofing, tanking and floors, semtex flooring: Limmer & Trinidad Lake Asphalt Co. Ltd. Sanitary fittings and ironmongery: Rownson, Drew & Clydesdale Ltd. Electrical installation: Boardley & Roberts Ltd. Electric fittings: General Electric Company Ltd. Rubber flooring: Leyland & Birmingham Rubber Co. Ltd. Fireplaces, tiles and gates: Gale & Galey Ltd. Furniture: G. Attoe & Sons Ltd. Reinforced floors: The Trussed Concrete Steel Co. Ltd. Hot water heating: W. J. & F. Taylor Ltd.

"The Fellmonger", Oak Street, Norwich. (Page 587.) Architect: C. A. Golding, F.R.I.C.S., L.R.I.B.A. Quantity surveyors: Philip Pank & Partners. General contractors: G. W. Gooch & Sons. Sub-contractors:—Facing bricks and roofing tiles: Robt. R. Ruymp & Son Ltd. Steelwork: Barnes & Pye Ltd. Asphalt roofing: Limmer & Trinidad Lake Asphalt Co. Ltd. Wrought ironwork: Hubbard Bros., Norwich. Electrical installation: Norwich Electrical Company Ltd. Electric fittings: G.E.C. Ltd. Lift: Aldous & Campbell Ltd. Steel windows: Henty Hope & Sons Ltd. Accotile floors: Holmes (Norwich) Ltd. Leaded lights and glazing: The Norwich Glass Co. Ltd. Fireplaces, tiling, etc.: Gale & Galey Ltd. Furniture: G. Attoe & Sons Ltd.

Showroom for the Eastern Electricity Board, 21, The Walk, Norwich. (Page 592.) Architect: Thomas F. Trower, F.R.I.B.A. General contractors: Thomas Gill & Son (Norwich) Ltd.

Shops at St. Andrew's Hill, Norwich, for Anguish's Girls Hospital. (Page 593.)
Architect: F. M. Dewing, A.R.I.B.A. General contractors: J. Youngs & Son. Ltd. Plastering: Crotch & Son Ltd. Flat roofing: William Briggs & Son Ltd. Steelwork: Dawnays Ltd. Stonework: A. J. Woods & Sons. Electrical work: Fishers (Norwich) Ltd.

Matthes Ltd., Norwich. (Page 594.)
Architect: A. D. Cooke, A.R.I.B.A. General contractors: W. S. Lusher & Sons. Subcontractors:—Shopfront and fittings: Messrs. Courtney Pope. Restaurant fittings: Messrs. Wallace King, Heating: G. N. Haden Ltd. Carpets: Messrs. Steele, Banbury. Curtains and fabrics: Messrs. Tibor.

Shop in High Street, Attleborough, for G. A. Lee. (Page 594.) Architect: F. M. Dewing, A.R.I.B.A. General contractors: Steels. J. Tofts Ltd. Sub-contractors: Steelwork. Robert Stevenson Ltd. Staircase: Hubbard Bros. Ltd. Signs: Modern Electric Ltd. Flooring: Wallace King Ltd. Electrical wiring: G. A. Lee Ltd.

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N)

D., Joinant House D., Chester Street Claude Benton's Shop, London Street, Norwich. (Page 593.) Architect: J. P. Chaplin, A.R.I.B.A. General contractors: Wallace King Ltd.

Store for Bonds (Norwich) Ltd. (Page 593.) Architect: Robert Owen Bond, F.R.I.B.A., A.A.DIPL. General contractors: J. Youngs & Son Ltd. Sub-contractors: Steelwork: Robert Stevenson Ltd. Electrical: Mann, Egerton & Co. Ltd. Hot water and heating: A. Pank & Son Ltd. Metal winneating: A. Pank & Son Ltd. Metal windows: Henry Hope & Sons Ltd.; Barnes & Pye Ltd. Flooring: Hollis Bros. Ltd. Shopfronts: Harris & Sheldon Ltd. Artificial stone: Empire Stone Co. Ltd. Reinforcement: British Reinforced Concrete Engineering Co. Ltd.

Agriculture House, Ber Street, Norwich. (Page 599.) Architects: Berry, Crane & Noble. General contractors: R. G. Carter

Offices for Arthur Howlett Ltd., Fishergate, Norwich. (Page 600.) Architects: Berry, Crane & Noble. General contractors: R. G. Carter Ltd.

Stores for Messrs. Herring Industries Ltd., Whapload Road, Norwich. (Page 604.) Architect: Thomas F. Trower, F.R.I.B.A. General contractors: R. G. Carter Ltd.

Sandal Factory for Norvic Shoe Company Ltd. (Page 604.) Architects: Wearing & Hastings F./A.R.I.B.A. General contractors: J. Youngs & Son Ltd. Sub-contractors: Heating: A. Pank & Son Ltd. Lighting: Eastern Electricity Board.

Red House Farm Buildings, Buxton. (Page 605.) Architect: W. A. J. Spear, L.R.I.B.A. General contractors: Messrs. Norgate Bros.

Factory canteen for Sexton, Son & Everard Ltd. (Page 605.) Architects: Edward Boardman & Son. General contractors: Lionel Smith.

Calvert Street Warehouse, Norwich. (Page 605.) Architect: J. P. Chaplin, A.R.I.B.A. General contractors: Westgates A.R.I.B.A. General contractors: Westgates (Norwich) Ltd. Sub-contractors: Steelwork: Robert Stevenson (Structural) Ltd.

Factory, Salhouse Road, Norwich. (Page 605.) Architect: W. A. J. Spear, L.R.I.B.A. General contractors: Churchill Constructors

Building for Boulton & Paul Ltd., Riverside Works, Norwich. (Page 605.) Architect: Robert Owen Bond, F.R.I.B.A., A.A.DIPL. General contractors: Messrs. W. S. Lusher Seneral contractors: Messrs. W. S. Lusner & Son. Sub-contractors: Electrical installation: Mann, Egerton & Co. Ltd. Sanitary fittings: Robt. R. Ruymp & Son Ltd. Hot water and heating: A. Pank & Son Ltd. Metal windows: Henry Hope & Sons Ltd. Lifts: Evans Lifts Ltd. Flooring: Granwood Electring Co. Ltd. wood Flooring Co. Ltd.

New factory for Fletcher & Son Ltd., Norwich. (Page 605.) Architect: Robert Owen Bond, F.R.I.B.A. General contractors: Owen Bond, F.R.I.B.A. General contractors: R. G. Carter Ltd, Sub-contractors: Steelwork: Boulton & Paul Ltd. Hot water and heating: Wm. Freer Ltd. Electrical installation: Mann, Egerton & Co. Ltd. Windows: Crittall Manufacturing Co. Ltd. Reinforcements: Twisteel Reinforcement. Office flooring: Granwood Flooring Co. Ltd. Hardwood flooring: Homes (Norwich) Ltd. Sanitary fittings: R. J. Pryce & Co.

Canteen store, Mile Cross, Norwich. (Page 605.) Architects: A. F. Scott & Son, General contractors: J. G. Carter Ltd.

Ben Burgess Ltd., Tractors, King Street, Norwich. (Page 605.) Architects Berry, Crane & Noble. General contractors: H. C. Greengrass & Sons.

Factory Canteen for Messrs. Lincolnshire Canners Ltd., West Lynn, King's Lynn, Norfolk. (Page 605.) Architect: H. Guy Bishop, A.R.I.B.A. General contractors: R. W. Dye & Sons Ltd.: Sub-contractors: Heating, ventilating and electrical work: A. Pank & Son Ltd. Illumination: Messrs. A. Pank & Son Ltd. Illumination: Messrs. Crompton Parkinson. Wall tiling and floor tiling: Carter & Co. Ltd. Steelwork: Dawnays Ltd. Flat roofing: Standard Flat Roofing Co. Ltd. Dome lights: Mellowes & Co. Ltd. Metal windows: Crittall Manufacturing Co. Ltd. Iron staircase: Haywards Ltd. Kitchen equipment: Messrs. Stotts of Oldham, Refrigeration: Mann Egerton & Co. Ltd. geration: Mann Egerton & Co. Ltd.
Decoration and plumbing: Messrs. W.
Lock. Flooring: Granwood Flooring Co.
Ltd. Counter shutter: Roller Shutters Ironmongery: Jame's Gibbons Ltd.

House, Spixworth, Norfolk. (Page 610.) Architect: W. A. J. Spear, L.R.I.B.A. General contractors: Messrs, W. Evans & Son.

House, Norwich. (Page 610.) Architect: W. A. J. Spear, L.R.I.B.A. General contractors: T. Gill & Son (Norwich) Ltd.

Swaffham RDC Traditional Housing. (Page 610.) Architect: W. A. J. Spear, L.R.I.B.A. General contractors: Messrs. Potter Bros.

Agricultural cottages, Ashill, Norfolk. (Page 610.) Architect: W. A. J. Spear, L.R.L.B.A. General contractors: Messrs. Tennant.

Wicken Farm House, Castle Acre, Norfolk. Wicken Farm House, Castle Acre, Norfolk. (Page 610.) Architects: Cecil Upcher and J. Fletcher Watson, F./A.R.I.B.A. General contractors: Fishers & Sons Ltd. Subcontractors: Heating and electric installation: A. Pank & Sons Ltd. Decorations and panelling: A. E. Baxby. Marble fireplace: Mallett & Son (Antiques) Ltd. Marble flooring: A. J. Woods & Sons. Sanitary fittings: J. Bolding & Sons. Electric clock: J. Smith & Sons (Derby) & Sons (Derby).

Norfolk Regiment War Memorial Cottages. (Page 610.) Architect: Cecil Upcher, F.R.I.B.A. General contractors: Messrs. W. S. Lusher & Sons, Sub-contractors: Electrical installation: Beaven & Sons Ltd. Stone War Memorial: A. J. Woods & Sons.

Grove House, East Dereham (Children's Reception Home). (Page 610.) Architect: C. H. Thurston, L.R.I.B.A., County Architect, Norfolk. Main contractors: Burrell Bros. Ltd. Sub-contractors and nominated sup-pliers: Ironmongery: Guntons of Norwich. Flat roofing: Wm. Briggs & Sons Ltd. Staircase balustrade: Barnes & Pye Ltd. Facing bricks: Builders' Direct Supply Co. Ltd. Precast hollow flooring, flat roofs, in situ staircases: Concrete Ltd. Basement tanking: Norwich & East Anglian Asphalt Co. ing: Norwich & East Anglian Asphalt Co. Metal windows, lantern lights, pressed-steel door frames: Henry Hope & Sons Ltd. Electrical installation: G. S. Lacey. Heating and hot water: F. L. Lawrence (Engineers) Ltd. Paved terrace: "Noelite" Ltd. Roof tiling: Dawber, Townsley & Co. Ltd. Semastic tile floors: Limmer & Trinidad Lake Asphalt Co. Ltd. Fire surrounds: Eastwoods Sales Ltd. Artificial stone: Cambridge Artificial Stone Co. Sanitary fittings: Messrs. Finch & Co. Internal doors: H. E. Taylor Ltd. Taylor Ltd.

"Bel Air," house at Horning. (Page 611.)
Architect: A. D. Cooke, A.R.I.B.A. General
contractor: H. A. Holmes Ltd. Sub-contractors: Heating: G. N. Haden Ltd. Windows: Wonderwindows, Sweden. Reinforced concrete: B.R.C., London.
fittings: Messrs. Wallace King.
and fabrics: Messrs. Tibor.
doors: Messrs. Brady.

House at Cottishall, Norwich, Norfolk, (Page 611.) Architect: F. M. Dewing, A.R.I.B.A. General contractors: Messrs, Norgate Brothers. Plastic flooring: (Fage 611.)

AR.I.B.A. General contractors: Messra.

Norgate Brothers. Plastic flooring:
Holmes (Norwich) Ltd. Hot and cold water supply: R. G. Taylor. Electrical work: Charles Gates Ltd.

House at Oulton Broad for Commander R. Jenkins. (Page 611.) Architects: Skippe & Partners, A.R.I.B.A. Quantity surveyors: Ashford, Trower & Waller. General contractor: Harvey & Leech Ltd. Facing bricks: Gisleham Brick Co. Electrical: Lowestoft Electrical Co. Stone fireplace: The Gregory Quarries (Manchester). Sanitary equipment: R. J. Pryce & Co. Steel windows: Crittalls Manufacturing Co. Ltd. Cork flooring: Armstrong Cork Co.

Corton House, Norwich. (Page 611)
Architect: F. M. Dewing, A.R.LBA
General contractors: J. Youngs & Son
Ltd. Sub-contractors: Heating and
plumbing: W. J. Taylor, Norwich. Plastering: Crotch & Son (Norwich) Ltd. Lino
floors: Wallace King Ltd. Cork floors;
H. E. Richards Flooring Ltd. Steel work;
Barnes & Pye Ltd. Metal windows;
Crittall Manufacturing Co. Ltd. Roads;
Harry Pointer (Norwich) Ltd. Furnishings;
Heal & Sons Ltd; Robertson & Colman
Ltd. Fabrics: Garland & Sons Ltd.

Private Houses at Queens Close, Norwich, (Page 611.) Architect: J. P. Chaplin, A.R.I.B.A. General contractors: Westgates (Norwich) Ltd. Sub-contractors: Electrical installa-tion: G. Roe.

Bungalow at Borrow Road, Oulton Broad. (Page 611.) Architects: Skipper & Partners, A.R.I.B.A. Quantity surveyors: Ashford, Trower & Waller. General contractors: Harvey & Leech Ltd. Sub-contractors and suppliers:—Heating: A Pank & Son Ltd. Electrical: Lowestoft Electrical Co. Ltd. Facing bricks: Ipstock, per Buildern Direct Supply Co. Roof tiles: Marley Tiles Ltd. Driveway: East Anglian Roadstone & Transport Co. Joinery: H. R. Middleton. Sanitary equipment: R. J. Pryce & Co. Pryce & Co.

House at 1, Judges Drive, Norwich, for Eric H. Skipper. (Page 611.) Architects: Skipper & Partners, A.R.I.B.A. Quantity surveyors: Philip Pank & Partners. General Surveyors: Fifth Paint & Partners, General Contractors: Westgates (Norwich) Ltd. Sub-contractors and suppliers: Facing bricks: Ibstock Multi Facings. Wood windows: E.J.M.A. manufactured by F. Taylor & Co. Cavity brickwork (inner leaf foam slag blocks): Cringlefold Hardwood floors; first floor—Tasmanian oak: Mallinson; ground floor—Alfron-mosia: Jewsons. Wrought ironwork: mosia: Jewsons. Wrought ironwork:
Hubbard Bros. Plaster: Carlite. Heating
and plumbing: F. L. Lawrence (Engineers
Ltd. Asphalt paving: Limmer & Trinidat
Lake Asphalt Co. Ltd. Stonework: A J. Woods & Sons.

Swaffam Secondary Modern School (Page 615.) Architects: Norwich Education Department: G. W. Oak. General Contractors: Potter Bros. Sub-contractors contractors: Potter Bros. Sub-contractors: Steelwork: Boulton & Paul Ltd. Floor and roofs: Concrete Ltd. Bricks: London Brick Co. Ltd. Asphal tanking: Norwich & East Anglian Asphal (1932) Ltd. Roof lights: Luxfer Ltd. Heating installation: Barnards & Boulto Ltd. Electrical installation: Johnson Pearce & Co. Ltd. Sanitary fittings Stitsons Sanitary Fittings Ltd. Gainstallation: Eastern Gas Board. Electrical supply: Eastern Electricity Board. Thermoplastic tiles: Holmes (Norwich) Ltd. (Accotile). Composition floors: Granwood. plastic tiles: Holmes (Norwich) Lu (Accotile), Composition floors: Granwoo Flooring Co. Ltd. W.c. cubicles: Wa Mallinson Ltd. Cloak and changing roo fittings: Comyn Ching & Co. Ltd. Flu Norfolk,
L. Dewing,
Messrs,
flooring;
and cold
Electrical

mmander R.
s: Skipper
surveyors:
eneral contd. Facing
Electrical:
e fireplace:
ster). SaniCo. Steel
ng Co. Ltd.
Co.

Page 611),
ings & Son
eating and
th. Plaster
Ltd. Lino
oork floors:
Steel work:
windows:
d. Roads:
Furnishings:
& Colman
ons Ltd.

se, Norwich. olin, A.R.I.B.A. is (Norwich) ical installa-

per & Parteyors: Asheral contractors Pank & Son electrical Co. per Builden les: Marley nglian Roadnery: H. R. nent: R. J.

Norwich, for Architects:
... Quantity ners. General prwich) Ltd. ers: Facing ngs. Wood tured by F. kwork (inner Cringlefold r—Tasmanian toor—Alfronatt ironwork: lite. Heating ce (Engineer) er & Trinidad tonework: A.

dern School.

vich Education
k. General
b-contractors:
Paul Ltd.
concrete Ltd.
Ltd. Asphalt
glian Asphalt
etal Casements
Luxfer Ltd.
ds & Boulton
it Johnson,
itary fittings:
Ltd. Gas
rd. Electricity
ovard. ThermoNorwich) Ltd.
rs: Granwood
changing room
Co. Ltd. Flush

4

9



working detail

CANOPY: LONDON AIRPORT

Frederick Gibberd, architect

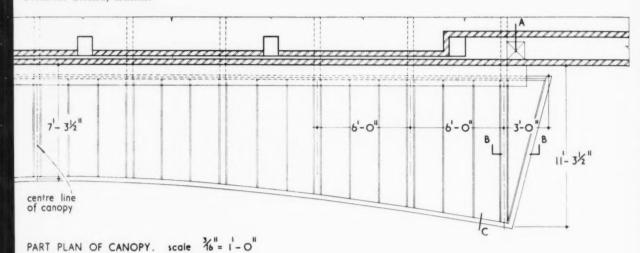


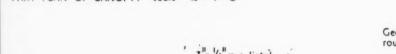
The canopy is supported on purpose-made r.s.j's which taper along their length and, passing over the top flange of one r.s. beam directly behind the wall face, are botted to the web of another 6 ft. further back. The fascia is formed in aluminium-faced plywood clipped to a r.s. angle and the same material is used to box in the supporting r.s.j's.

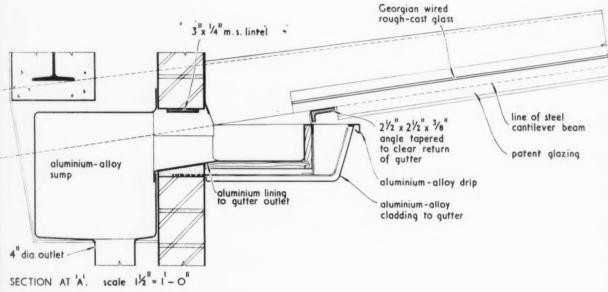
#### working detail

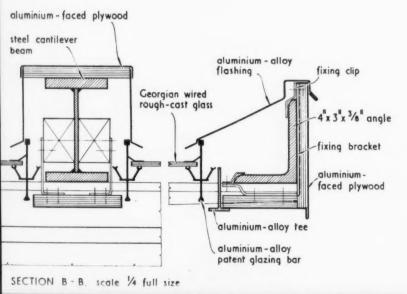
CANOPY: LONDON AIRPORT

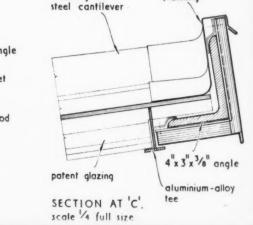
Frederick Gibberd, architect









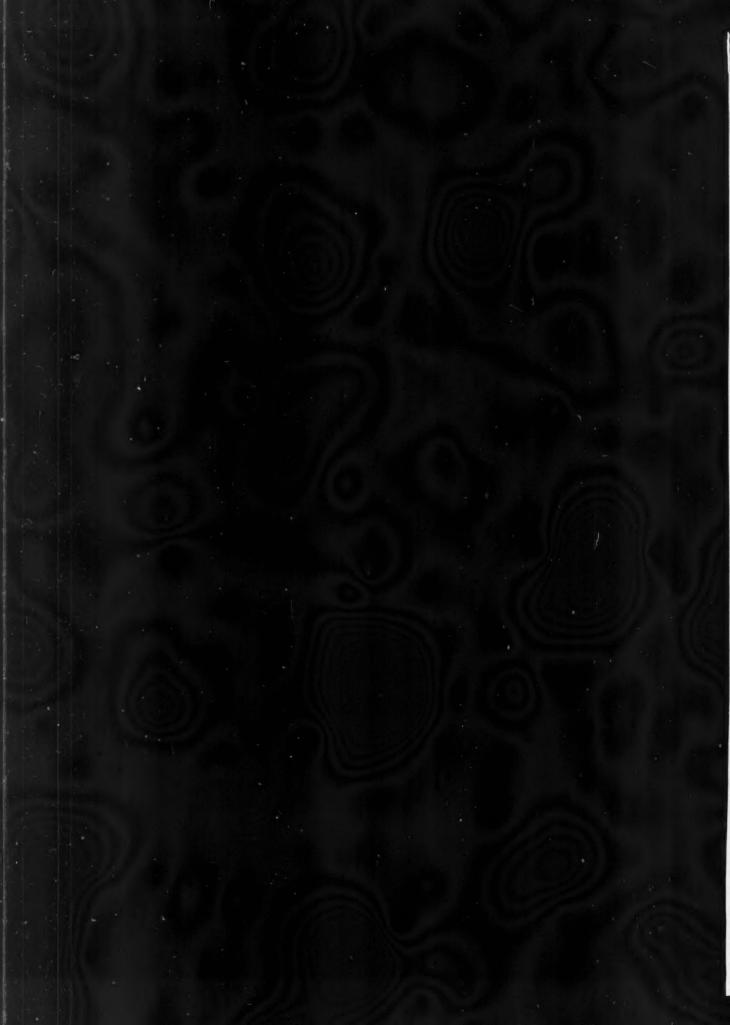


cladding to

aluminium - alloy

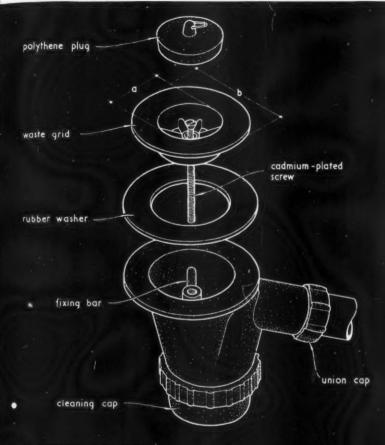
flashing





#### SANITATION EQUIPMENT

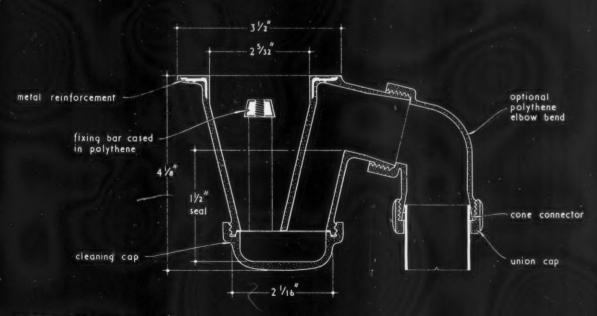
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0	ь	applications		
11/4*	2 1/16"	lavatory basins		
11/2"	21/8"	baths		
11/2"	33%"	sinks		

SIZES OF WASTE GRIDS.

ISOMETRIC VIEW OF TRAP.



SECTION THROUGH TRAP (showing conversion to S-trap).

#### 33.P2. · A.B.M. UNIVERSAL· POLYTHENE TRAP

Provisional Patent No. 3810/54

This Sheet describes the A.B.M. Universal polythene trap for use with lavatory basins, baths and sinks. The trap occupies a very small amount of space and owing to the material from which it is made it is non-corrosive, acid-resisting and free from electrolytic action.

#### General

The trap has been primarily designed to eliminate the possibility of the electrolytic action between dissimilar metals which occurs in the traditional type of waste disposal system. The tendency to electrolysis is aggravated today by the increasing use of powerful detergents and bleaches, which remove the protective layer of grease normally existing in the drainage system and expose the metal surfaces.

#### Material and Construction,

The trap is moulded in polythene, a material which is non-corrosive and acid-resisting; it expands and contracts without cracking and is therefore unaffected by frost.

The top of the trap is reinforced with metal and there is a metal fixing bar to take the cadmium-plated screw of the waste grid. No metal is exposed, as it is completely encased in polythene. A cleaning cap is screwed to the base of the trap and may be removed by hand.

Connection: The trap outlet is designed to take the Fingafix union cap and cone connector for simple connection to special 1\(\frac{1}{4}\)-in. dia. A.B.M. polythene tube or domestic copper tube to B.S. 659. As the outlet has a 1\(\frac{1}{4}\)-in. B.S.P. thread, galvanised steel tube may be used or, where a lead waste pipe is desired, a standard 1\(\frac{1}{4}\)-in. cap and lining may be fitted in place of the Fingafix union cap.

#### Sizes

The dimensions of the trap are as given in the drawing on the face of the Sheet and the table shows the size of the waste grid to suit each application. The area of the waterway throughout is equivalent to that of a 1\frac{1}{4}-in. pipe and the trap has a 1\frac{1}{2}-in. seal.

#### Fixing

The fixing screw of the waste grid is supplied in the correct lengths to fit sinks, baths and lavatory basins. The joint at the trap outlet is easily made by placing the Fingafix union cap on the pipe to be fitted, followed by the loose cone connector with its tapered edge towards the end of the pipe. The pipe is then inserted into the trap outlet and the union cap screwed up with the fingers. The cleaning cap is similarly screwed with the fingers when necessary.

#### **Optional Fittings**

Elbow bend: There is a polythene elbow bend available for converting the trap to an S-trap at small extra cost.

Polythene tube: A.B.M. special 1\(\frac{1}{4}\)-in. dia. polythene tube is made with an outside dia. the same as 1\(\frac{1}{4}\)-in. domestic copper tube to B.S. 659; it is supplied in 12 ft. lengths with the Fingafix cone ring moulded on at one end. Short lengths cut from the 12 ft. may be used with the loose cone connector supplied with every trap. The use of A.B.M. polythene tube ensures that the complete installation will be free from any possibility of corrosive action.

#### Finish

The waste grid is chromium-plated.

#### Colours

The trap is normally supplied in black but colours may be produced where large quantities are required.

Compiled from information supplied by:

Associated Builders Merchants Limited.

Address: Peters Hill, Upper Thames Street, London, E.C.4.

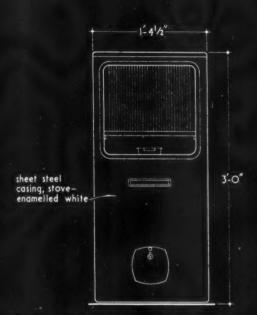
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Editor: Cotterell Butler, A.R.I.B.A.

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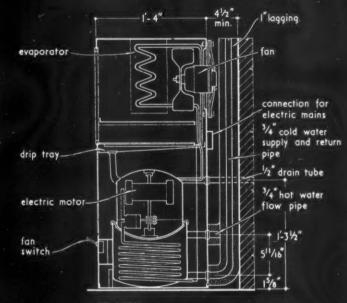


#### REFRIGERATION | COLD ROOMS | GENERAL DATA

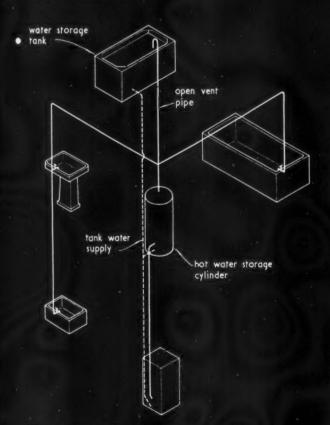
The Architects' Journal Library of Information Sheets 570. Editor: Cotterell Butler, A.R.L.B.A.



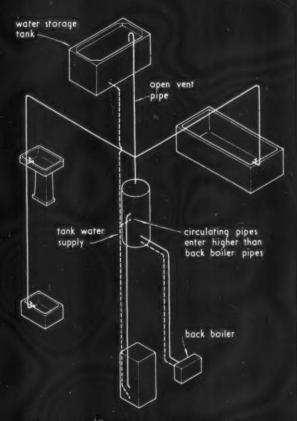
FRONT ELEVATION.



SECTION.



TYPICAL INSTALLATION.



USE IN CONJUNCTION WITH BACK BOILER.

#### 28.J1 · FERRANTI FRIDGE-HEATER ·

This Sheet describes the Ferranti Fridge-Heater, a heat pump designed to take heat from a !arder and convert it for use in It shows how to design the hot water system heating water. and the larder.

#### Heat Output

The heat output is rated at 4200 B.t.u./hr. for summer working and 2400 B.t.u./hr. for winter working.

The consumption varies between 250 and 500 watts, the average being 400 watts.

The voltage is 210/240 volts A.C. 50 cycles.

#### Design of Installation

Larder: For larders of normal construction (i.e. 4½-in. brick internal walls plaster-faced on both sides and outside walls of 11-in. cavity construction) the floor area should not be less than 9 sq. ft. or greater than 15 sq. ft. where the sub-floor is of concrete, or 12 sq. ft. where the floor is of timber. Under certain circumstances, condensation may occur on the cold

certain circumstances, condensation may occur on the cold underside of timber floors. In order to prevent any adverse effect from this, the underside of the floor should be treated with a suitable protective paint.

The following calculation is made to ensure that the heat lost from the larder is balanced by the heat lost from the circulating pipes and cylinder in the airing cupboard.

To calculate the heat lost from the larder, the area of each bounding surface (except the ceiling) is multiplied by the thermal conductivity (T) in the first table below. The results are added together and multiplied by 1.5. This figure represents the heat taken from the larder per day. The heat lost from the circulating pipes is calculated by multiplying the length of run by the figure corresponding to pipe size and extent of lagging shown in the second table (it is usual to assume a minimum 1-in. lagging in the first instance). The heat lost from the pipes is then subtracted from the heat heat lost from the pipes is then subtracted from the heat lost from the larder to determine the amount of heat which would be lest from the children in the arigin support. The must be lost from the cylinder in the airing cupboard. appropriate cylinder size and degree of lagging can then be selected from the third table.

Thermal Conductivities (T = B.t.u. per sq. ft. per day for 15 deg. F. drop)

				Surface					T
Valls								in.	
	brick,	unplastere	ed					45	123
9.9	22	**						9	105
	9.9	**		**			* *	135	78
Solid	brick,	plastered		* *				45	112
22	22	81.				* *		9	88
12	9.9	9.9		* *				133	73
19	99				* *		4.4	18	63
C 22	22. 1	99	***			* *	* *	221	57
		, unventil	ated.					153	66 57
2.9	* 9	11		*				20	51
Cavity	v brick	, ventilate	d n	lastered		* *		11	73
CHVIL	y Dilen	, ventinate	u, p	nastered				154	62
**	**	**		**				20	54
Conc		12	**	**				4	122
**								6	107
22								8	96
9.9	**							10	83
Wood	i, tong	ued and g	roov	ed				1	100
. 11	1.9	**	2.0					13	83
Stone		* *	**					12	97
**			* *					18	83
22			* *	* *	**		* *	24	71
Asbes	stos sh			* *				8	157
Com	gated	corrug			* *	**		*	188
Corre			in I	ourd				19	83
Breez	e, plas		·m. ·				* *		97
	er				**	* *	* *		83
Wind	OWY			**					03
	, single	e							170
93	doub								100
Floor:									
		on joists,							70
		on joists,			ter cei	ling			114
Conc		contact w		earth					57
9.9		us wood							47
19				* *	* *				57
D 20		th air spa	ce						103
Doors		lu aquite							0.3
		y cavity	* *	0.0					83
Single	e pane	1		* *					144

Heat loss from circulating pipes in B.t.u. per day per foot run

Pipe size	Bare	1-in. lagging	2-in. lagging	3-in. lagging	
in.	1000	250	150	100	
	1200	300	180	120	

Cylinder heat loss in 1000s B.t.u. per day

Dia. (in.)	Thickness of lagging (in.)	Height (in.)				
		24	36	42	48	
12	1 2 3	6·0 4·2 3·3	7·9 5·3 4·0	8.9 5.9 4.4	9·8 6·5 4·8	
14	1 2 3	7·0 4·9 4·1	9·3 6·3 5·0	10·4 7·0 5·4	11.6 7.9 5.9	
16	1 2 3	8·8 6·3 5·1	11·3 7·8 6·1	12·6 8·6 6·6	13.9 9.4 7.1	
18	1 2 3	10-4 7-5 6-4	12·9 9·0 7·1	14·4 9·8 7·6	15.9 10.8 8.2	
21	1 2 3	12·9 9·5 7·8	16·3 11·4 9·2	18·0 12·5 9·8	19·6 13·6 10·6	
24	1 2 3	15·4 11·5 9·3	19·3 13·5 10·7	21 · 2 14 · 7 11 · 5	22 · 9 15 · 8 13 · 3	

Air vents should be located near ceiling.

Doors should be double-skinned and tight-fitting.

Electric point should be provided to take a 5-amp. plug.

The minimum clearance behind the Fridge-Heater should be 4½ in. and the run of circulating pipe in the larder should be as short as possible. As the lower temperatures in the larder occur below the top of the Fridge-Heater, shelf space should be provided in this portion. Moisture condenses on the evaporator as the larder air is cooled, and is piped to the back of the unit: provision should be made for connecting the drain tube to an outside waste.

Piping: The maximum permissible distance between the Fridge-Heater and the hot water storage tank is 20 ft. 0 in. measured along the circulating pipe track. Long horizontal runs should be avoided and the total amount of horizontal piping should not exceed the vertical: the vertical pipe length should not be less than 3 ft. 0 in. The cold feed to the unit must be connected as shown in the drawings on the lower face of the Sheet. The unit should not be connected direct to the unit should not be connected direct to the unit should not be connected direct. to the mains water and is suitable only for heads up to 30 ft. 0 in. The flow pipe should enter the hot storage tank 4 in. to 6 in. above the return and both should be connected as near the bottom of the cistern as possible, due allowance being made for scale accumulation.

Hot water storage tank: A 30-gallon tank is recommended.

The drawings on the lower face of the Sheet show typical installations. Where the daily demand for hot water is likely to exceed 60 gal., an immersion heater should be fitted in the storage cylinder: this should be so placed that there are 20 gal. below the immersion heater. The Fridge-Heater can be used in conjunction with a back boiler provided that this is equipped with a damper. The circulating pipes from the Fridge-Heater must enter the cylinder higher than those from the back boiler to prevent back-circulation from lowering the temperature of the water when the back boiler is not in use.

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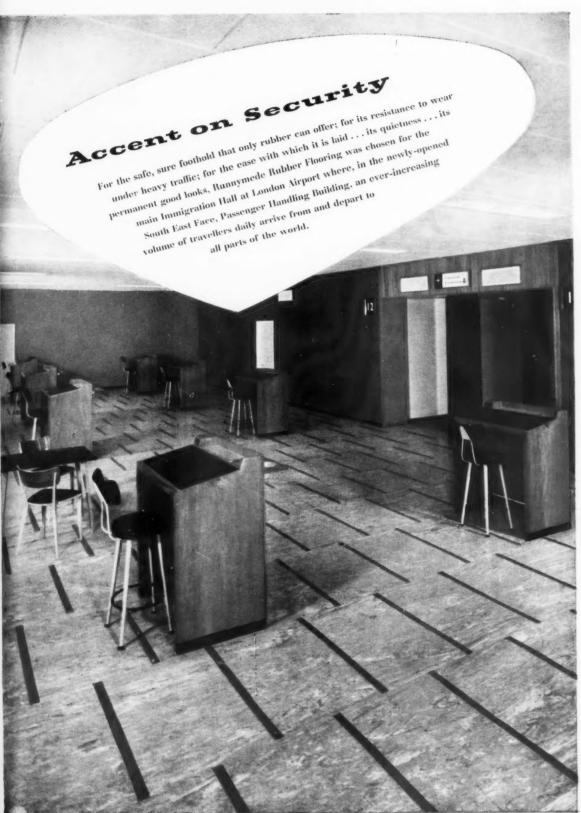
#### Ferranti Limited.

Address: Moston, Manchester 10.

Telephone: Failsworth 2271. London Office: Kern House, 36, Kingsway W.C.2. Telephone: Temple Bar 6666.







RUNNYMEDE RUBBER COMPANY LTD . 6 OLD BAILEY . LONDON . E.C.4. . TELEPHONE CITY 2471



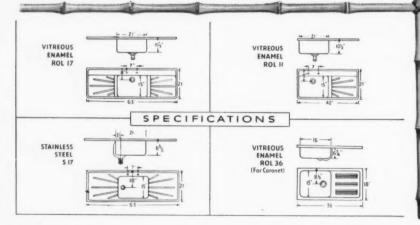
We show here some of the sink units in our range. You will see that there are models—and different styles—suitable for every size of kitchen. Sink tops can be stainless steel or porcelain-enamel\* as required, also right- or left-handed. The cabinets are all made from sound, well-seasoned wood.

As to prices, these are very fair indeed!

\*Available in cream, white, eau-de-nil, light blue and primrose. Cabinets available in cream, white, slate grey and light blue.

## EASICLENE

## Attractive ... efficient ... well made!



\* All sink tops available separately. Products include wash basins, cisterns, draining boards, etc.



"Duchess" style



"Princess" style



"Coronet" units

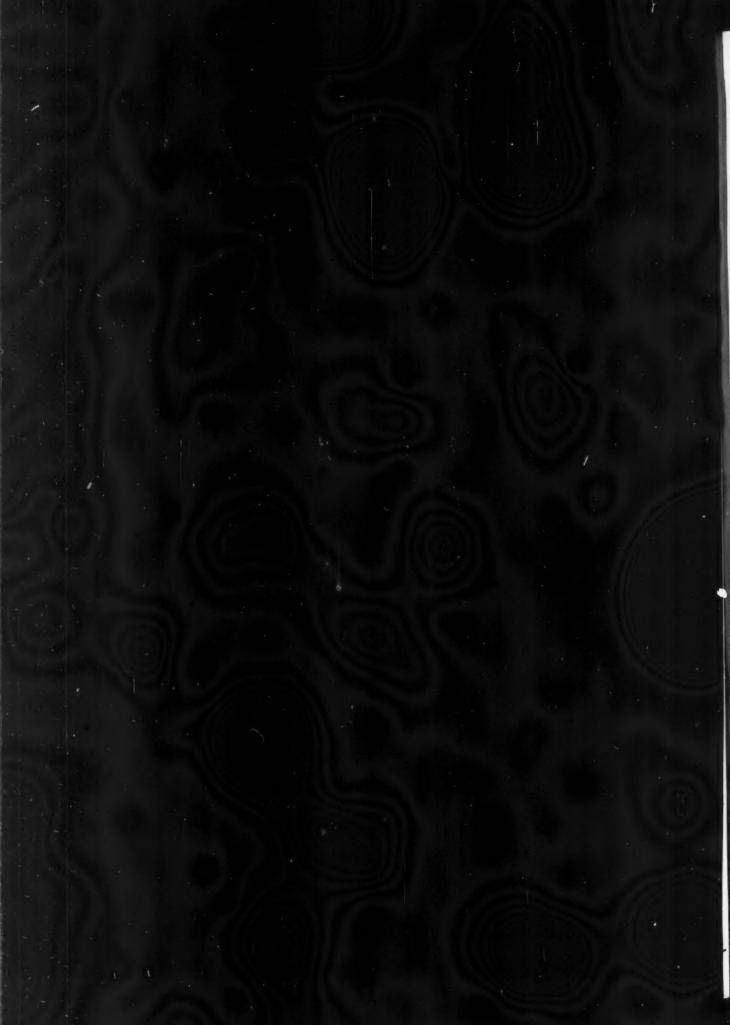
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Diss Girls' Secondary Modern School.
(Page 615.) Architects: Norwich Education
Department: G. W. Oak. General contractors
R. G. Carter Ltd. Heating and hot water
installation: G. N. Haden & Sons Ltd.
Electrical installation: Eastern Electricity
Board. Gas installation: Eastern Gas
Board. Structural steelwork: Boulton &
Paul Ltd. Precast concrete floor units:
Constone Ltd. Playing field preparation:
E. Doe & Sons Ltd. Playing rounds, roads,
and paths: East Anglian Roadstone
Transport Co. Ltd. Thermoplastic tile
floors: Semtex Ltd. Composition flooring:
Granwood Flooring Co. Ltd. Tanking:
William Briggs & Sons Ltd. Metal windows
and roof lights: Rea Metal Casements
(1932) Ltd. Hardwood strip floors: Horsley
Smith & Co. (Hayes) Ltd. Asbestos
spray: Turners Asbestos Cement Co. Ltd.
W.c. cubicles: Venesta Ltd. Sanitary
fittings: Stitsons Sanitary Fittings Ltd.
Flush doors: Boulton & Paul Ltd. Ironmongery: Comyn Ching & Co. Ltd.
Cloakroom fittings: Cloakroom equipment
Ltd.

King's Lynn North Lynn Junior School. (Page 615.) Architects: Norwich Education Department, General contractors: Messrs. Warren Bros. Sub-contractors: Piling: J. L. Kier & Co. Ltd. Heating and hot water: Barnards & Boulton Ltd. Metal windows: Morris Singer Ltd. Structural steel: Boulton & Paul Ltd. Built-up roofing: Bond & Lacey Ltd. Flooring (block): Terradura Flooring Co. Ltd. Flooring (tile): Marley Tile Co. Ltd. Suspended ceilings: Merchant Trading Co. Ltd. Automatic stokers: Young, Austen & Young. Asphalt paving: Ayton Asphalt Co. Ltd. Electrical installation: Johnson, Pearce & Co. Ltd. Facing bricks: Builders' Direct Supply Co. Ltd. Roof construction (Myko): Tidnams Ltd. Ironmongery: Lockerbie & Wilkinson Ltd. Sanitary fittings: Guntons of Norwich. Special pressed-steel doors: H. Hope & Sons Ltd. W.c. cubicles: Flexo Plywood Industries Ltd. Sun blinds: Harris & Sheldon Ltd. Cloakroom fittings: Comyn Ching & Co. (London) Ltd. Lighting fittings: Johnson, Pearce & Co. Ltd.

Burnham Market Junior and In School. (Page 615.) Architects: No Education Department: G. W. Norwich General contractors: Messrs. Potter Bros.: W. Oak. Sub-contractors: Heating and hot-water installation: G. N. Haden & Sons Ltd. Electrical installation: Barnhams Electrical Co. (Fakenham) Ltd. Composition floors: Granwood Flooring Co. Ltd. Struc-tural steelwork: Boulton & Paul Ltd. Metal windows: Aygee Ltd. Thermoplastic tile Holmes (Norwich) Ltd. floors: Felt roof-William Briggs & Sons Ltd. Sewage ing: disposal plant: Ames Crosta Mills & Co. Ltd. Asphalte playgrounds, roads and paths: Ayton Asphalte Co. Ltd. Sanitary fittings: B. Finch & Co. Ltd. Cloakroom fittings: fittings: Cloakroom Equipment Ltd.

Secondary modern school, Loddon, for the Norfolk Education Committee. (Page 615.) Architects: A. F. Scott & Son. General contractors: R. G. Carter Ltd. Redenhall Junior School. (Page 616.) Architects: Cecil Upcher and J. Fletcher Watson, F./A.R.I.B.A. General contractors: Blackburns (Harleston) Ltd. Sub-contractors: Space heating: A. Pank & Son Ltd. Electrical installation, light fittings, etc.: Eastern Electricity Board. Accotile floors: Holmes (Norwich) Ltd.

King's Lynn North Infants' School. (Page 616.) Architect: Robert Owen Bond, F.R.I.B.A., A.A.DIPL. General contractors: Messrs. Warren Bros. Sub-contractors: Hot water and heating: Young, Austen & Young Ltd. Electrical installation: Eastern Electricity Board. Flooring: Granwood Flooring Co. Ltd.; Art Pavement & Decorations Ltd. Steelwork: Boulton & Paul Ltd. Metal windows and doors: Henry Hope & Sons Ltd. Reconstructed stone: Saunders (Ipswich) Ltd. Built-up felt roofing: Bond & Lacey Ltd.

Weights & Measures Office, Thorpe Road, Norwich. (Page 617.) Architect: C. H. Thurston, L.R.I.B.A., County Architect, Norfolk. General contractors: H. G. Lomax & Son Ltd. Sub-contractors and nominated suppliers: Bitumetal roofing: Wm. Briggs & Sons Ltd. Plastering and granolithic flooring: Messrs. Marshall & Mann. Thermoplastic tile flooring: Messrs J. Hesp & Sons. Artifical stone: The Cambridge Artificial Stone Co. Ltd. Metal windows: Crittall Manufacturing Co. Ltd. Roof light: Henry Hope & Sons Ltd. Asphalt tanking: Limmer & Trinidad Lake Asphalt Co. Ltd. Ironmongery, Sanitary goods: Guntons of Norwich. Metal fascia letters: E. L. Hunt Ltd. Terrazzo standard slabs: Roman Mosaic Ltd. Steel floor plate: Dawnays Ltd. Wall hook: G. Holmes, Hot water heating system: F. L. Lawrence (Engineers) Ltd. Electric lighting and heating: Beaven & Sons Ltd.



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T.A. Drill Hall, King's Lynn, Norfolk. Page 617.) Architect: W. A. Spear, (Page 617.) Architect: W. A. Spear, L.R.I.B.A. General contractors: Chas. D. L.R.I.B.A. C

Surgery at Heartsease Estate, Norwich. (Page 617.) Architects: Wearing & Hastings, F./A.R.I.B.A. General contractors: R. G. Carter Ltd. Sub-contractors: Electrical installation: H. A. Greenfield & Sons Ltd.

Divisional Police Headquarters, Dersingham. (Page 617.) Architect: C. H. Thurston, F.R.I.C.S., L.R.I.B.A., County Architect, Norfolk. General contractors: Messrs. Potter Bros. Sub-contractors and suppliers: Heating installation: Messrs. Barrett & Wright. Electrical installation: Eastern Electricity Board. Reinforced-concrete floors and roofs: The Kleine Co. Ltd. Roof coverings: Wm. Briggs & Sons Ltd. Thermoplastic tile floors, wood block flooring; Limmer & Trinidad Lake Asphalt Co. Ltd. Artificial stone coat of arms: The Cambridge Artificial Stone Co. Ltd. Precast stonework: Crotch & Son Ltd. Sanitary fittings: Eastwoods Sales Ltd. Metal windows: Crittall Manufacturing Co. Ltd. Ironmongery: Comyn Ching & Co. Ltd. Police lamp: R. Crosskill Ltd. Glascrete window:
A. J. King & Co. Ltd. Plastic lettering:
Messrs. Drakard & Humble. Bronze lettering: Comyn Ching & Co. Ltd. Sliding door gear: P. C. Henderson & Co. Ltd. Sewage disposal plant (tipping trough): Tuke & Bell Ltd. Sewage disposal plant (electric pump): Broadwell Engineering Co. Ltd.

Police Station, King's Lynn. (Page 617.) Architect: C. H. Thurston, L.R.I.B.A., County Architect, Norfolk. General contractors: Kerridge (Cambridge) Ltd. Sub-contractors

and suppliers: Pile foundations: Simplex Concrete Piles Ltd. Reinforced concrete work: Indented Bar & Concrete Engineering Co. Ltd. Steelwork: Dawnays Ltd. Hollow tile floors: The Kleine Co. Ltd. Asphalt: Limmer & Trinidad Lake Asphalt Co. Ltd. Fletton bricks: London Brick Co. Brick facings (front): Crowborough Brick Co. Ltd. Brick facings (back): Builders' Direct Supply Co. Ltd. Brick facings (light reflection): Fisons Ltd. Stonework: Empire Stone Co. Ltd. Roof Stonework: Empire Stone Co. Ltd. Roof tiles: Dawber, Townsley & Co. Ltd. Flat roofing: W. Briggs & Sons Ltd. Metal windows generally: Jas. Gibbons Ltd. Cell windows: J. A. King & Co. Ltd. Internal doors: Manor Joinery Works Ltd. Cell doors: Venesta Ltd. Plastic tile floors: Semtex Ltd. Clock turret (framework): Frazers Joinery Co. Ltd. Clock turret (copper work): F. Braby & Co. Ltd. Ornamental metalwork: Morris Singer Co. Ltd. mental metalwork: Morris Singer Co. Ltd. Ironmongery: Comyn Ching & Co. Ltd. Sanitary fittings: B. Finch & Co. Ltd. Sliding door gear: P. C. Henderson Ltd. Paint and distemper: Mander Bros. Ltd. Electrical installation: Eastern Electricity Board. Electric clocks: Gents & Co. Ltd. Hot water, heating and ventilation services: F. L. Lawrence (Engineers) Ltd.

Felbrigg Village Hall, Norfolk. (Page 618.) Architects: Purcell & Johnson, F/F.R.I.B.A. Contractors: A. J. Cooper.

South Pier Pavilion, Lowestoft. (Page 18.) Architects: Skipper & Partners, R.I.B.A. General contractors: R. G. Car-618.) A.R.I.B.A. ter Ltd. Sub-contractors: R. G. Car-ter Ltd. Sub-contractors: Steelwork: Dawnays Ltd. Heating: A. Pank & Son Ltd. Electrical installation: Frank N. Gort & Sons Ltd. Plumbing: W. J. & F. Taylor Ltd. Gas installation: Eastern Gas Board. Facing bricks: Builders Direct Supply Co.

Main roof and wall cladding: Turners Asbestos Co. Ltd. per Dawber Townsley & Co. Flat roof finish: Standard Flat Roofco. Flat fool finish: Standard Flat Roof-ing Co. Sanitary ware: R. J. Pryce & Co. Acoustic tiling: Cyproc Ltd. Ceiling tiles: Perfontit Ltd. Frostproof tiles: S. G. B. Dudley. Glazing: J. Dyson Ltd. Tyrolean finish: Cement Marketing Co. Floor tiles: finish: Cement Marketing Co. Floor tiles; Messrs. Gibbons Hinton. Cork flooring: Armstrong Cork Co. per Holmes (Norwich) Ltd. Hardwoods: Wm. Mallinson & Son. Stage curtains: Garrick Curtains, London, Stage lighting: Strand Electric & Engineering Co. Safety curtain, counterweighting frame, stage equipment: Hall Stage Equipment Ltd. Heater units: F. H. Biddle Ltd. Extractor fans: Keith Blackman & Co. Boiler and radiators: Crane Ltd. Ampli. Boiler and radiators: Crane Ltd. Boiler and radiators: Crane Ltd. Amplification system: Pamphonic installation, Morlings Ltd. Window gear: Wm. Newson & Sons Ltd. per R. J. Pryce. Kitchen equipment: Crittal-Froy Ltd. Fire fighting equipment: Pyrene Co. Ltd. Lightning conductors: W. J. Furse Ltd. Lantern lights (kitchen): J. A. King & Co. Hand powered lift: G. Brady & Co. Ltd. Door furniture: Parker Winder & Achurch Ltd. Paints and decoration: Goodlass Wall & Co. Wallpaper: John Line & Sons Ltd. Lighting fittings: Messrs. Courtney Pope. Ampli-

#### Announcements

PROFESSIONAL

John R. Rylands, M.SC., M.L.E.E., F.INST.F., is to succeed to the office of President of The Institute of Fuel next October. He is Chief Engineer and a Director of E. Green & Son Ltd., Wakefield, and has been responsible for a number of con-tributions to the Journal of The Institute of



These two sound-deadened Partitions (Type 700) in pencil-striped sapele mahogany show the flexible use of space at the Students Union Building Council Chamber, University of London. Architects: Adams, Holden & Pearson, F.F.R.I.B.A.

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FLOORS - Sealing cable duct covers.

WALLS and CEILINGS - Sealing wall-

board joints (with cover strips). Sealing

glass bricks to door and window frames.

DOORS and WINDOWS - Sealing door

and window frames to brickwork.

Bedding window frames and window

SANITARY WARE - Sealing baths, wash-

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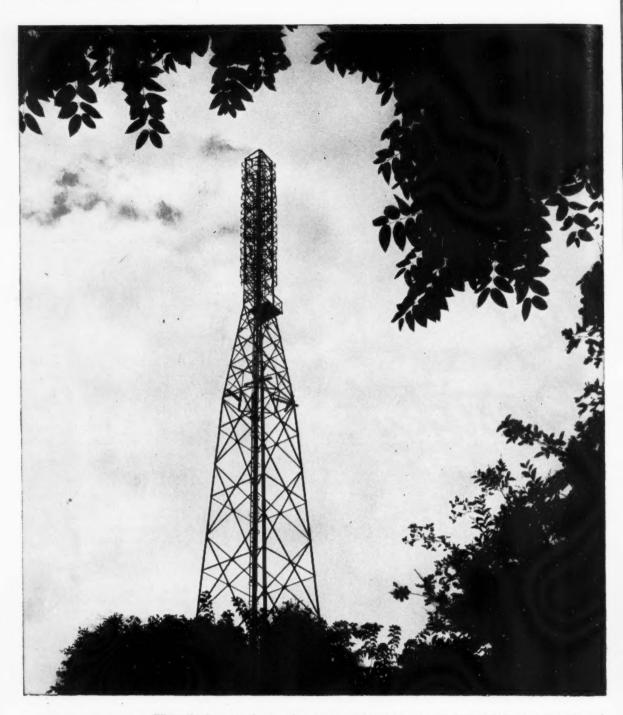












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\*Conversion architect: Peter Moro F.R.I.B.A.

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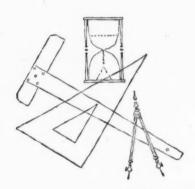
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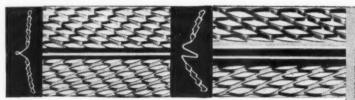
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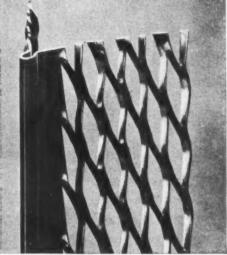
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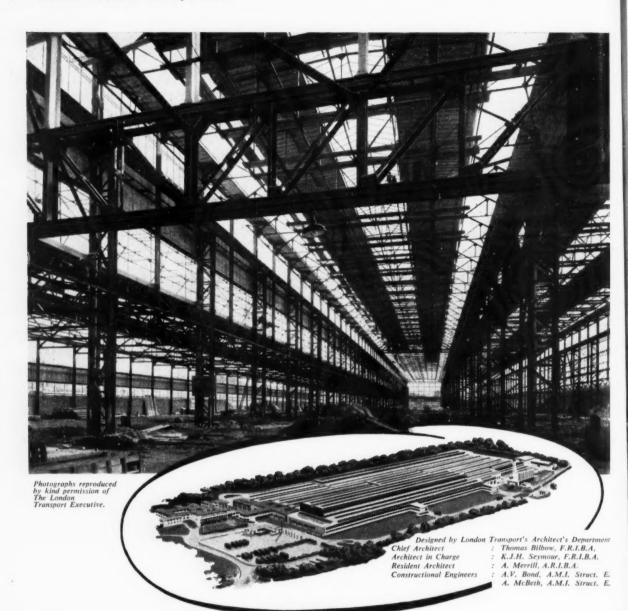
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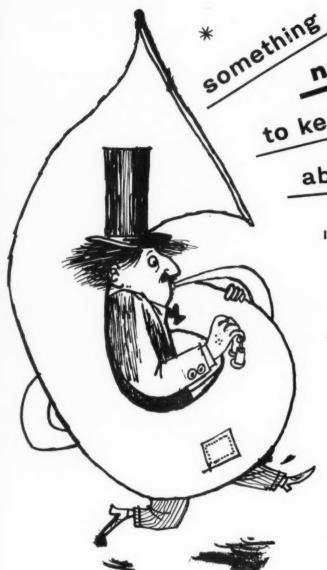
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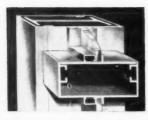
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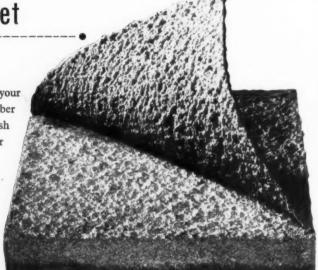
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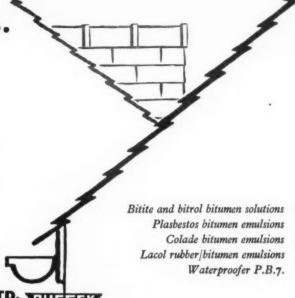
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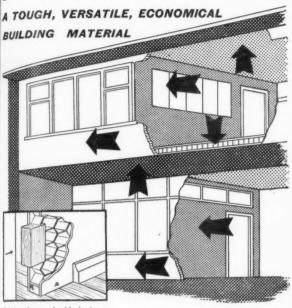


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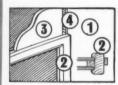
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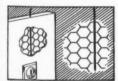
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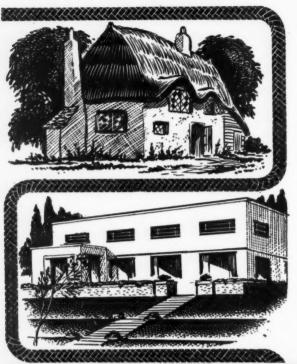
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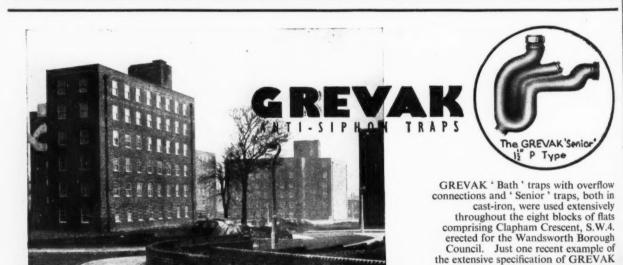


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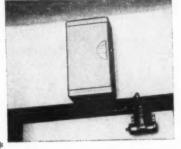
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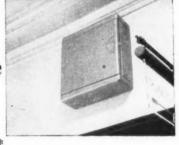
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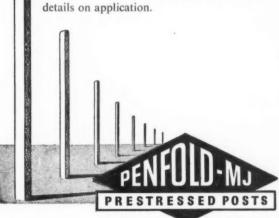
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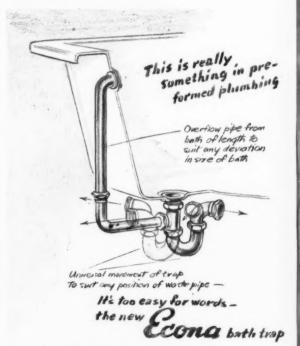
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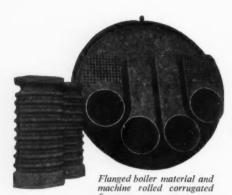
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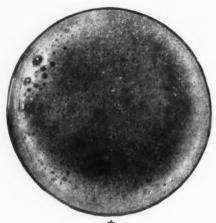
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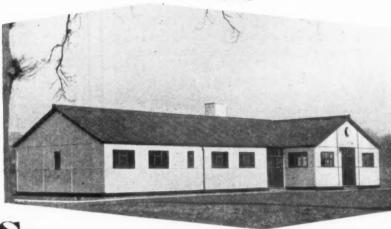
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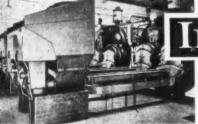
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Foreword by Lord Strang, Chairman of

the National Parks Commission

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designed to show how it is possible to build in wild and still unspoilt countryside without destroying or impairing its essential character - how, it fact, to halt the spread of Subtopia. The book analyses, with many beautiful illustrations, the regional tradition of building on Dartmoor, and demonstrates the methods and materials used successfully in the past (with particular emphasis on the siting, design and colour of the buildings); and then shows that once the traditional principles have been grasped, the possibilities of successful and original design based on the principles are unlimited. It also provides practical advice on suitable colours for use on moorland buildings in the form of a colour chart.

Although it is concerned specifically with the Dartmoor National Park, the principles which this book clearly enunciates are equally valid for a the National Parks and, indeed, for all areas where natural beauty is threatened by Subtopian development.

Size 81 ins. by 51 ins. 64 pages with over 80 illustrations in line and halftone, maps showing Administration and Geology of Dartmoor and a colour chart. Price 5s. net, postage 6d.

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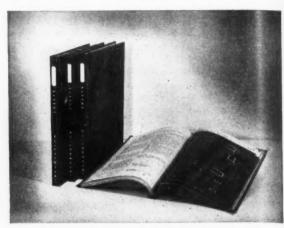
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CLASSIFIED ADVERTISEMENTS

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 are of "The Architects' Journal," at the address care of "The

Public and Official Announcements

Public and Official Announcements

253. per inch; each additional line, 28.

HAYES AND HARLINGTON URBAN
DISTRICT COUNCIL
Applications are invited for:—
(a) ARCHITECTURAL ASSISTANTS (PERMANENT) (two vacancies), Grade A.P.T. II, i.e.,
£595—£575 per annum, (b) SENIOR ARCHITECTURAL ASSISTANT (TEMPORARY),
Grade A.P.T. IV, i.e., £710—£385 per annum, plus
London "weighting" in each instance, 21-25 years
220 per annum, 25 years and over £30 per annum.
Candidates for (a) must have passed the R.I.B.A.
Inter. Exam., good experience of housing work
with local authority. Housing accommodation
will be made available for one of these two
appointments if necessary. (b) Must be a
Registered Architect, have good general experience in design and construction in relation to
Municipal housing and other works, and capable
of supervising large building contracts. The
Council is unable to provide housing accommodation for this appointment. 5-day week.
Further particulars and form of application
obtainable from the undersigned, which, when
completed, must be returned as soon as possible.

Town Hall, Hayes, Middlesex.

9932

AMENDED ADVERTISEMENT

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GEFR and Solicitor.

932

AMENDED ADVERTISEMENT

WORCESTERSHIRE COUNTY COUNCIL

COUNTY ARCHITECT'S DEPARTMENT

Applications are invited for the following positions on the permanent staft:—

(1) SENIOR ASSISTANT ARCHITECT, Grade

A.P.T. VI (£880-£1,080). This position is for a
group leader in charge of a section of the drawing office, mainly engaged in carrying out major

capital projects on mew schools. Candidates

should be qualified Architects, with good experience in the design and construction of contem
porary schools.

cate in the design and construction of contemporary schools.

(2) ARCHITECTURAL ASSISTANT, Grade A.P.T. III (£640-£765). Preference will be given to candidates who have passed the Intermediate (3) APCHINESS.

APT. III (2500-2765). Preference will be given to candidates who have passed the Intermediate Examination.

3 (ARCHITECTURAL ASSISTANT, Grade APT. II (2595-2675).

4 (APT. II (2595-2675).

4 (APT. III (2595-2675).

4 (APT. III) (2595-2675).

5 (APPLICATING), Grade A.P.T. IV (2710-2885). Applicants should have had training and supervision of contracts for heating and supervision of contracts for heating and allied service in schools and other large public buildings, and of maintenance of equipment. Application forms may be obtained from L. C. Lomas, F.R.I.B.A., County Architect, 14, Castle Street, Worcester. (J292).

GOVERNMENT OF NORTHERN IRELAND ASSISTANT ARCHITECT
Applications are invited for the unestablished post of Assistant Architect (Lass II in the Works Directorate, Ministry of Finance.

Salary scale, which attracts pay supplement of amounts between 291 and 2160 per annum is 4875×225-2750×230-2960×240-21,000. Minimum of scale is linked to entry at age 26 plus or minus one increment for each year above or below that age. Maximum entry point 2900 plus pay supplement of 2118.

Candidates must be Registered Architects by examination, and must have had at least two years' experience in an Architect's Office in the preparation of working drawings for new buildings. Preference will be given to a suitably qualified candidate who served in H.M. Forces during the 191418 or 1939-45 wars, provided the Ministry is satisfied that such a candidate is, or within a reasonable time will be, able to discharge the duties of the post efficiently.

Application forms may be obtained from the Director of Establishments. Ministry of Finance, Stormont, Belfast, to whom they must be returned, together with copies of two recent testimonials, so as to reach him not later than 25th June, 1996.

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Required for the production of Development
plans for Government Stations, African towns
and villages.

and villages.

Appointment is either permanent and pensionable in the salary scale £1,086 to £1,680 p.a. or on contract in the scale £1,170 to £1,824 p.a. Officers on contract receive a gratuity of £100 to £150 on satisfactory completion of contract.

Free passages for officer and wife and up to cost of two adult passages for children. Allowances from £120-£288 may also be payable. Quarters, if available, at rental of 84 per cent. of basic salary. Generous home leave on full salary.

salary.
Candidates should be A.M.T.P.I. Experience in research for planning an advantage.
Write to the Director of Recruitment, Colonial Office, London, S.W.I., giving age, qualifications and experience, quoting BCD.103/408/04.

CAMBRIDGESHIRE COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT
Applications are invited for the following appointments:—
(a) TWO QUANTITY SURVEYORS, Grade IV

(£710×£35−£885). (b) ONE ASSISTANT QUANTITY SURVEYOR, Grade II (£595×£20−£675). (c) ONE ENGINEER, Grade IV/V (£710×£35−

Grade II (£995×£20-£675).

(c) ONE ENGINEER, Grade IV/V (£710×£35-£970).

(d) ONE ARCHITECTURAL ASSISTANT, Grade IV (£710×£35-£985).

(e) TWO ARCHITECTURAL ASSISTANTS, Mis. Div. III (£445×£15×£20-£510).

(a) Applicants should have had considerable experience in all duties of quantity surveying, including site measurement and final accounts.

(b) Applicants should have had experience in abstracting, billing and site measurement. Preference will be given to applicants who have passed the Intermediate stage of the R.I.C.S.

(c) Applicants should be Associate Members of the Institute of Heating and Ventilating Engineers, or hold equivalent qualifications, and should have had experience in preparing designs, specifications, and also the supervision of contracts for heating, ventilating and lighting services in large public buildings.

(d) Applicants should be neat and expeditious draughtsmen and be able to prepare working drawings from tracings.

The appointments are subject to the Local Government Sunerannuation Acts, 1937 to 1953, the National Scheme of Conditions of Service, a satisfactory medical examination, and termination by one month's notice on either side.

Applications, stating age, present salary, present and previous appointments, details of training and experience, together with one recent testimonial and the names and addresses of two-referees, should be submitted to the undersigned not later than 4th June, 1956.

CHARLES PHYTHIAN, Clerk of the County Council.

May, 1956.

Shire Hall, Cambridge. May, 1956.

Shire Hall, Cambridge.

May, 1956.

WARWICKSHIRE COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT
Applications are invited for the following
appointments:—
(a) SENIOR ASSISTANT ARCHITECT'S,
Grade A.P.T. V (£795—£970). Applicants must
be competent designers, having a knowledge of
modern methods of construction, and be capable
of handling large building projects from sketch
plan stage to completion.
(b) ARCHITECTS, Grade A.P.T. IV (£710— 2885). Applicants must be competent designers,
having a good knowledge of construction and be
capable of handling medium sized contracts.
(c) ASSISTANT ARCHITECTS (scale £690— 2840). The successful applicants will work in
teams on large projects, but opportunity will be
given to men with enthusiasm and ability to
design and carry out smaller projects under the
Group Architect.
(d) CLERKS OF WORKS. Applications are
invited for the appointment of Clerks of Works
to supervise the erection of new school buildings
in various parts of the County. Salary £14 per
week.

The commencing salaries can be within the

in various parts of the County. Salary £14 per week.

The commencing salaries can be within the grades according to the ability and experience. The appointments, except (d), are on the established staff, and subject to the Scheme and Conditions of Service of the National Joint Council for Local Authorities. All appointments are subject to the Local Government Superannuation Acts, 1937-1953. Successful candidates will be required to pass a medical examination.

The Council is unable to offer successful candidates housing accommodation.

Applications are to be on forms which can be obtained from G. R. BARNSLEY, F.R.I.B.A., County Architect, Shire Hall, Warwick.

L. EDGAR STEPHENS.

Clerk of the Council.

L. EBGAR STEPHENS,

May. 1956.

LONDON ELECTRICITY BOARD
ARCHITECTURAL ASSISTANT
Applications are invited for the above position in the Architect's Section of the Chief Engineer's Department in Central London.
Applicants should be studying for or have passed the Infermediate Examination of the R.I.B.A.. be capable draughtsmen, and have had several years' experience in an Architect's office.
The post is graded under Schedule "D" of the National Joint Board agreement as Grade V (2735 to £840 per annum), inclusive of London allowance.

Application forms from Personnel Officer, 46, New Broad Street, London, E.C.2. Please quote ref. PER/2156/A. 1083

ref. PER/2156/A.

SURREY COUNTY COUNCIL

COUNTY ARCHITECT'S DEPARTMENT
Applications invited for permanent appointments for ARCHITECTS and QUANTITY
SURVEYORS A.P.T. IV-VI. Minimum 2710.
maximum 21,080, plus 230 London Allowance per

Salary range of appointment and commencing lary will depend on experience and qualifi-

cations.
Applications with two testimonials to County Architect, County Hall, Kingston-on-Thames, as soon as possible.

NORTH KESTEVEN RURAL DISTRICT
COUNCIL
APPOINTMENT OF DRAUGHTSMAN
The above Council invite applications from suitable persons for the above appointment in the Department of the Surveyor to the Council.
The successful candidate should be capable of assisting with the preparation of plans for housing schemes including site lay-outs and should preferably have some knowledge of building construction and be capable of dealing with matters relating to byelaws as to new streets and buildings and will be required to perform such other duties as may be delegated to him by the Surveyor, from time to time.
The salary offered is subject to the present scale
A.P.T. Grade 1 of the salaries fixed by the National Joint Council (£550 × £20—£510) the commencing salary to be fixed according to the qualifications and experience of the person appointed.

appointed.

The appointment will be subject to the provisions of the Local Government Superannuation Acts, and the successful candidate will be required to furnish a medical certificate of fitness.

Applications in writing, stating age, qualifications and experience, with the names of two persons to whom reference may be made, must be received at my office, and addressed to the undersigned, not later than first post on Wednesday, 6th June, 1956.

F. FOSTER,

F. FOSTER, Clerk of the Council.

Council Offices,
31, Clasketgate,
Lincoln.

PONTYPRIDD URBAN DISTRICT COUNCIL
APPOINTMENT OF ARCHITECTURAL
ASSISTANT
Applications are invited for the appointment of Architectural Assistant at a salary in accordance with A.P.T. Division, Grade IV (£710-£355 per annum). The successful candidate will be placed on the appropriate incremental stage of such salary scale in accordance with his experience. Candidates must be Associate Members of the Royal Institute of British Architects.
The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, a satisfactory medical examination, and one month's notice on either side for termination.
Particulars of the mode of application are obtainable from Mr. W Cecil Evans, Engineer and Surveyor, Municipal Buildings, Pontypridd, Glam., and should be obtained by intending candidates. Housing accommodation will be provided if necessary
Applications, in form required, together with tames and addresses of three persons to whom reference may be made, must be delivered to the undersigned not later than Monday, the eleventh day of June, 1956.
Canvassing will be a disqualification, and candidates must disclose any relationship to Members of the Council.

BERNARD M. MURPHY.
Clerk of the Council.

BERNARD M. MURPHY, Clerk of the Council.

Municipal Buildings
Pontypridd.

18th May, 1956.

CHAPELEN-LE-FRITH RURAL DISTRICT
COUNCIL
APPOINTMENT OF BUILDING INSPECTOR/
CLERK OF WORKS
Applications are invited for the above appointment on Grade A.P.T. II (£595—£678) with a car allowance on 10 h.p. or 1,199 c.c. Housing accommodation will be available for the successful candidate. Candidates must be members of one of the building trades, preferably with local authority

experience.

Applications on forms obtainable from the Engineer and Surveyor at the address below must be returned to the undersigned by the 16th June, 1006.

G. E. J. ASHWORTH, Clerk of the Council.

Council Offices, Hayfield Road, Chapel-en-le-Frith, Via Stockport.

Chapel-en-le-Fritti,
Via Stockport.

Via Stockport.

23rd May. 1956.

CITY OF CANTERBURY
Applications are invited for the following permanent appointments:—
(a) CHIEF TOWN PLANNING ASSISTANT,
A.P.T. IV (£710-£385).
(b) ASSISTANT ARCHITECT, Special Grade
(£690-£340).
Applicants for appointment (a) must be Associate
Members of the T.P.I. and should also be qualified
architects. They must have general planning
experience and also be capable of dealing with
three dimensional design problems particularly in
connection with redevelopment and reconstruction.
Applicants for appointment (b) must have
passed Parts I and II of the R.I.B.A. final
examination or the equivalent and be competent
existences and the contemporary outlook. The
successful candidate will be engaged on School
uliding projects.

successful candidate will be taged as building projects.

The commencing salary for each appointment will be fixed within the Grades according to ability and experience.

Applications together with names of two referees must reach the City Architect and Planning Officer, Mr. L. Hugh Wilson, O.B.E., A.R.I.B.A., A.M.T.P.I., not later than the 13th June, 1956.

Canvassing will disquality

J. BOYLE.

J. BOYLE. Town Clerk.

Municipal Buildings, Canterbury.

CITY AND COUNTY OF
NEWCASTLE UPON TYNE
APPOINTMENT OF CHIEF ASSISTANT
ARCHITECT (EDUCATION)
The Housing Committee of the Council invite applications for the position of Chief Assistant Architect (Education) in the City Architect's Department, at a salary in accordance with Scale D (£1,307 10s., rising by annual increments to a maximum of £1,517 10s.).
Applicants must be Fellows or Associates of the Royal Institute of British Architects, and should have received a sound architectural training, preferably at a recognised School of Architecture. The officer appointed will be responsible under the direction of the City Architect for the control of all building work undertaken by the Department for the Education Committee. Extensive practical experience of the administration and control of staff is an essential qualification, and recent experience of the design and construction of Schools and Technical Colleges is desirable.
The Educational Building programme at present amounts in value to approximately £1,000,000 per annum, including certain schemes carried out by Architects in private practice.
Forms of application, together with further particulars of the appointment, may be obtained upon application to George Kenyon, Dip.Arch., A.R.I.B.A., Dip.T.P., A.M.T.P.I., City Architect, 18, Cloth Market, Newcastle upon Tyne, 1.
Closing date for receipt of completed applications, first post on Tuesday, 12th June, 1956.

JOHN ATKINSON,
Town Hall,
Newcastle upon Tyne, 1.
18th May, 1956.

Town Hall, Newcastle upon Tyne, 1. 18th May, 1956.

BOROUGH OF DOVER

SENIOR ASSISTANT ARCHITECT

Applications are invited for the above appointment in the Borough Engineer and Surveyor's Department. Salary-Special Grade for Architectural Assistants (£690/£840 per annum).

Applications, stating age, qualifications and experience together with the names and addresses of two referees, must be delivered to the Borough Engineer, Brook House, Dover, not later than the 8th June, 1956.

Provision of housing accommodation will be considered.

JAMES A. JOHNSON, Town Clerk,

New Bridge House, Dover. 22nd May, 1956.

22nd May, 1956.

COUNTY COUNCIL OF ESSEX
COUNTY PLANNING DEPARTMENT
Applications invited for superannuable post of
Draughtsman (male or female) Misc. Grades II-IV
(4395-4575) at Broomfield, Epping and Wanstead.
Applicants should be aged 21 years of age or over,
but consideration will be given to the appointment
of juniors wishing to be trained as Draughtsmen/
Planning Assistants.
Applications in own handwriting to County
Planning Adviser, Broomfield Place, Broomfield,
Chelmsford, as soon as possible. Canvassing forbidden.

Chelmsford, as soon as possible. Canvassing forbidden.

1170
COUNTY OF LINCOLN—PARTS OF KESTEVEN
COUNTY ARCHITECT'S DEPARTMENT
Applications from suitably qualified persons are
invited for the following appointments:

(a) THREE ASSISTANT QUANTITY SURVEYORS, A.P.T. Grade V (4795—4970).

(b) ENGINEER'S ASSISTANT (Heating),
A.P.T. Grade III (£540—4765).

(c) TWO ARCHITECTURAL ASSISTANTS,
A.P.T. Grade II (£595—2475).

(d) JUNIOR ARCHITECTURAL ASSISTANT
(Electrical), General Division (£180—£500).

Applicants for posts (a) to be experienced in
all stages of the preparation of Bills of Quantities, the issue of interim certificates and the
settlement of final accounts for Schools and other
major, projects.

tes, the statement of final accounts for Schools and other major projects.

Applicants for post (b) should have had previous experience of the design of heating installations for Schools and other major projects.

Applicants for posts (c) should have had experience in general architectural work.

Appointments will be subject to the usual conditions of service for Local Authorities' staff.

Applications, stating age, experience, qualifications, past and present appointments with dates and salaries, together with copies of two recent testimonials, should be received by the undersigned not later than the 14th June, 1956.

Clerk of the County Council.

County Offices.

County Offices, Sleaford, Lincs. 24th May, 1956.

NORTH RIDING EDUCATION COMMITTEE
Applications are invited for the following posts in the Education Architect's Department.

(a) ASSISTANT ARCHITECTS (A.R.I.B.A.).
Scale A.P.T. IV. 4710—4885.
(b) ARCHITECTURAL ASSISTANTS (Inter. R.I.B.A.). Scale A.P.T. II, £595—£675; A.P.T. I, £50—6675; A.P.T. I,

R.I.B.A.). Scale A.P.T. II, £995—£015; A.E.A. A. £550—£610.

(c) Q'.ANTITY SURVEYING ASSISTANT (Inter. Ic.I.C.S.). Scale A.P.T. II, £995—£675.
Previous experience may be taken into account in fixing commencing salary and experience with Local Authority not essential. Car, travelling and subsistence allowances, where applicable. Local Government Superannuation Act. Canvassing disqualifies. Further particulars from F. Barraclough, County Hall, Northallerton. 1177

STAFFORDSHIRE COUNTY COUNCIL COUNTY PLANNING AND DEVELOPMENT DEPARTMENT Applications are invited for the appointment of JUNIOR PLANNING ASSISTANTS on A.P.T. Grades I-II (£550-£675 per annum) in the Area Planning Offices at Stafford, Wolverhampton and Newcastle-under-Lyme.

Applicants for the appointments should have had training in an Architect's, Engineer's, Surveyor's or Planning Office and preference will be given to those who have passed the Intermediate Examination of the Town Planning Institute or its equivalent.

Event to those who are the country of the town Planning Institute or its equivalent.

Applicants should give details of age, education and training qualifications, present and previous appointments and experience, and the names of two persons to whom reference can be made. Applications, in which relationship to any member or senior officer of the County Council must be disclosed, should be sent to D. W. Riley, County Planning and Development Officer, 41a, Eastgate Street, Stafford, not later than 15th June, 1956.

Clerk of the County Council.

1203

Clerk of the Councy

BOROUGH OF DAGENHAM

SENIOR ASSISTANT ARCHITECT

Senior Assistant Architect required by Dagenham Borough Council. Salary: Grade A.P.T. VI.
i.e. £910 to £1,110 at age 26 and over.

Applicants must be Associate Members of the R.I.B.A., with good experience in the design and supervision of housing schemes, modern school buildings and general municipal work.

The person appointed will be expected to deputise for the Chief Assistant Architect.

Housing accommodation available. Forms of application etc. from the Borough Engineer.

Closing date 18th June, 1956.

KEITH LAUDER,
Town Clerk.

Civic Centre,
Dagenham.

ANTRIM COUNTY COUNCIL
ASSISTANT (ARCHITECT)—PLANNING
DEPARTMENT
Applications are invited from Chartered Architects for the above position. A p'anning qualification will be an additional advantage.
Salary on A.P.T. Grade VI (£880 × £40—£1,080).
subject to deductions under the Local Government (Superannuation) Act (N.I.) 1950.
It is the Council's policy to give special consideration to candidates who have served in Her Majesty's Forces.
Applications giving age and full details of qualifications and experience, together with the names of two referees, to be received by me not later than 30th June, 1956.

W. S. HENDERSON.

County Courthouse, Crumlin Road, Belfast.

Belfast.

BOROUGH OF WILLESDEN

BOROUGH ENGINEER AND SURVEYOR'S

DEPARTMENT

Applications are invited for the following permanent appointments:—
(a) ASSISTANT ARCHITECTS (three posts),
Grade A.P.T. V (£795 × £35—£970).

Applicants must be A R.I.B.A., and will be required to work with Group Leader on schemes consisting mainly of housing projects.

(b) ARCHITECTURAL ASSISTANTS (three posts), Grade A.P.T. III (£640 × £25—£765).

Applicants must be Students of the R.I.B.A., and will be engaged on various schemes to be carried out by the Department.

London weighting is payable in addition to the above.

The Council is markle to assist with housing

above. The Council is unable to assist with housing

The Council is unable to assist with housing accommodation.

Forms of application and conditions of appointment may be obtained from the Borough Engineer and Surveyor. Town Hall, Dyne Road. Kilburn, N.W.6. Applications are to be returned to the undersigned not later than 9 a.m. on Monday. 18th June, 1966.

When writing for application forms candidates must state for which appointment they wish to apply.

R. S. FORSTER, Town Clerk

CITY AND ROYAL BURGH OF

BURGH ARCHITECT'S DEPARTMENT
Applications are invited for the post of ASSISTANT ARCHITECT on the salary scale A.P.T.
VA-VI (2745-2870) with placing according to age,
qualifications and experience. The post is superannuable and subject to medical examination.
Applicants should be Associate Members of the
Royal Institute of British Architects.
Applications, stating age, experience, qualifications and present appointment, together with
copies of two recent testimonials, should be
addressed to Leonard Howarth, Burgh Architect,
6, Abbot Street, Dunfermline.
The post has been designated by the Town
Council for purposes of priority housing.
Applicants must disclose in writing whether to
their knowledge they are related to any member
or senior officer of the Town Council and canvassing either directly or indirectly will be a disqualification.

J. DOUGLAS,
Tann. Clark.

J. DOUGLAS, Town C'erk.

City Chambers, Dunfermline. 19th May, 1956.

THE CORPORATION OF THE DISTRICT OF NORTH VANCOUVER, B.C., CANADA Applications are invited for ASSISTANT PLANNER, Qualifications: Basic University Degree in Architecture or Engineering with either experience or further training in Town Planning or acquivalent combination of training and experience. Duties: to undertake general planning duties with a minimum of supervision, with particular emphasis upon industrial and commercial sites and potential within the Municipality; to special research studies of a wide variety of problems; to assist in processing of Land Sale, Subdivision and Zoning Applications.

Salary Range: \$555.00 to \$425.00 per month (£126—£151).

problems; to assist in processing of Land Sales, Subdivision and Zoning Applications.

Salary Range: \$555.00 to \$425.00 per month (£126-£151).

All applications and further enquiries to: Mr. F. G. Saunders, Comptroller, 171, West Esplanade. North Vancouver, B.C., Canada.

CITY AND ROYAL BURGH OF DUNFERMLINE

BURGH ARCHITECT AND TOWN PLANNING DEPARTMENT

Applications are invited for the post of TEM-PORARY PLANNING ASSISTANT on the salary scale A.P.T. IV-V (£655-£760) with placing according to qualifications and experience.

Preference will be given to Associate Members of the Institute of Town Planning.

Applications stating age, experience, qualifications and present appointment, together with copies of two recent testimonials should be addressed to Leonard Howarth. Burgh Architect and Town Planning Officer, 6, Abbot Street, Dunfermline.

Application stating age, experience in writing whether to their knowledge they are related to any member or senior officer of the Town Council and canvasing either directly or indirectly will be a disqualification.

J. DOUGLAS, Town.

J. DOUGLAS, Town Clerk

City Chambers, Dunfermline. 24th May, 1956.

AIR MINISTRY, Works Designs Branch, requires in London and Provinces ARCHITEC TURAL ASSISTANTS experienced in planning preparation of working drawings and details in permanent and semi-permanent buildings. Salaries up to £898 p.a. (men) and £788 (women). Starting pay dependent on age, quals. and experience

Paid overtime. Long term possibilities with promotion and peusionable prospects, 4 weeks leave a year. Liability for overseas service. Normally natural born British subjects. Write stating age, quals, employment details, inc. type of work done, to any employment exchange, quoting Order No., Borough 1900.

of work done, to any employment exchange, quoting Order No., Borough 1000.

YORKSHIRE ELECTRICITY BOARD APPOINTMENT OF ASSISTANT ARCHITECT ON THE STAFF OF THE CHIEF ENGINEES Preference given to applicants who are Associate Members of R.I.B.A. Must have had good training and adequate experience in design and construction of modern offices, service centres, workshops and substation buildings.

Permanent superannuable post—National Joint Board conditions.

Salary scale—£810 × £25—£935 rising to £1,635 per annum. Commencing salary according is qualifications and experience, together with the names of two referees, should be forwarded to The Secretary, Yorkshire Electricity Board, Wetherby Road, Scarroft, near Leeds, within 14 days of the appearance of this advertisement.

1154

COUNTY BOROUGH OF HALIFAX

appearance of this advertisement.

COUNTY BOROUGH OF HALIFAX
Applications are invited for the appointment of an assistant architect (education) at a salary in accordance with Special Grade (£940).
Applications stating age, education and training, qualifications, present and experience, accompanied by copies of two recent testimonials should reach me by Monday, 11th June, 1956.

RICHARD de Z. HALL,
Town Hall

Town Hall, Halifax.

Town Hall,
Halifax.

NORTH WEST METROPOLITAN REGIONAL
The Board are engaged on a number of new building projects including a new hospital awdewny and the following staff are required to fill new posts on the establishment created to deal with the increased work.

(a)=ASSISTANT ARCHITECTS—good experience of design and construction necessary preferably in hospital work. Salary scale £640 × £25(4) × £30(4) × £35(2)—£930 plus £20—£40 London (b) ARCHITECTURAL ASSISTANTS—to give technical assistance to professional officers. Salary scale £400 (age 21 and over) × £20(7) × £25(2)—£570 plus £20—£30 London weighting. Improved scale awaited.

Applicants for (a) above must be Associale Members of the R.I.B.A., and for (b) must have Inter. R.I.B.A. Commencing salary above minimum may be paid to successful candidates according to appropriate experience since qualification Posts are subject to Whitley Council conditions (with dates) and experience, with mames of two referees, to Secretary, North West Metropolitan Regional Hospital Board, 11a, Portland Place, W.I., by 14th June.

ISTRICT OF CAN DA ASSISTANT

Degree in her experience nning or an and experience, anning duties ith particular innercial sites, tity; to carry ide variety of Land Sales,

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PLANNING on the salary lacing accord-

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DOUGLAS, Town Clerk. Branch, re-ARCHITEC-in planning/ d details for dings. 2788 (women). uals. and ex-

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BOARD ARCHITECT ENGINEER are Associate I good trainign and con-tice centres,

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Z. HALL,
Town Clerk.

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COUNTY BOROUGH OF GREAT YARMOUTH SCHOOLS ARCHITECT'S DEPARTMENT Applications are invited for the appointment of a Temporary Senior Assistant within Grade A.P.T. VI (£880-£1,080). The post is superannable and subject to the National Conditions

annuable and subject to the National Conditions of Service.
Candidates must be Associate Members of the R.I.B.A. and should have extensive experience in design and construction of schools. Previous knowledge of schools for partially blind and deaf children will be an advantage.

Housing accommodation will be made available frequired and the post is guaranteed for a minimum of two years.

Applications stating age, qualifications, experience, with details of past and present appointments, together with the names of two referees, should reach the Schools Architect, 22. Euston Road, Great Yarmouth, by 11th June, 1952.

2. Euston Road,

22, Euston Road, Great Yarmouth.

Great Yarmouth.

BOROUGH OF ASHTON-UNDER-LYNE
Applications are invited for the following appointments in the Borough Engineer and Surveyor's Department within the respective grades according to experience.

(a) SENIOR ASSISTANT (QUANTITIES). Grade IV (£710-£885). Qualifications: A.R.I.C.S. or equivalent.

(b) SENIOR ARCHITECTURAL ASSISTANT. Special Grade (£690-£484). Qualifications: Registered Architect with good experience in the design and construction of Municipal houses, flats and public buildings.

There is a full and varied programme of building work and both positions offer opportunities for taking responsibility and supervising work in progress.

and progress.

Housing accommodation will be provided if

required.

Application forms may be obtained from the Borough Surveyor, Municipal Offices, Ashton-under-Lyne and should be returned to the undersigned by 18th June, 1956.

G. A. MALONE, Town Clerk.

Town Hall, Ashton-under-Lyne. 22nd May, 1956.

NORTHERN IRELAND HOUSING TRUST The Trust invites applications for the following

posts:—
QUANTITY SURVEYORS
(a) SENIOR ASSISTANT QUANTITY SURVEYOR on the salary scale £960 × £30—£1,050 × £10—£1,050 v which has associates of the Royal

VEYOR on the satary state 200
Candidates must be Associates of the Royal Institution of Chartered Surveyors and should have considerable experience.

(b) QUANTITY SURVEYING ASSISTANT on the salary scale £625 × £25-£700.
Candidates must have passed the Intermediate examination of the Royal Institution of Chartered Surveyors.

candidates must nave passed the intermediate examination of the Royal Institution of Chartered Surveyors.

ARCHITECT

(c) ASSISTANT ARCHITECT on the salary scale £700 × £25-£800.

Candidates must be suitably qualified.

Preference will be given to ex-service candidates. The persons appointed will be required to participate in a contributory superannuation scheme which allows for the reciprocal transfer of benefits in Local Government schemes in suitable cases. Assistance in obtaining housing accommodation may be given in suitable circumstances to the successful candidates.

Applications should be made not later than 5th June, 1956, stating post applied for and giving full details of age, education and experience, including present post and salary, to the General Manager, Northern Ireland Housing Trust, 12. Hope Street, Belfast.

For post (a) please mark envelope 35/53.

For post (b) please mark envelope 35/54.

For post (c) please mark envelope 33/54.

ISLE OF ELY COUNTY COUNCIL
APPOINTMENT OF COUNTY ARCHITECT
Applications are invited from Registered Architects for the wholetime appointment of County
Architect at a salary within the scale of £1,905 ×
£55(4) × £50-£2,175. Travelling and subsistence
allowances will be payable in accordance with
the regulations of the Council.
Application forms and terms of conditions of
appointment may be obtained from the undersigned to whom applications should be forwarded
not later than the 23rd June, 1956.
R. F. G. THURLOW.
Clerk of the County Council.
March.

1210

County Hall, March.

STEVENAGE DEVELOPMENT CORPORATION Applications are invited for the post of MODEL. MAKER in the Chief Architect's Department on Clerical Division N.J.C. Scale £520 × £20—£580

Clerical Division N.J.C. Scale £520 × £20—£580 per annum.
Candidates must be able to construct all types of architectural models from drawings for presentation to Corporation Committees, and opportunities will occur for work on the design and preparation of public exhibitions and displays.
Housing accommodation will be available in due course in an appropriate case.
Applications giving details of experience and names of two referees should be sent to the Chief Administrative Officer, Aston House, Nr. Stevenage, Herts, not later than Monday, 4th June, 1956.

FAREHAM URBAN DISTRICT COUNCIL

(Population 48,000)
Applications invited for JUNIOR ARCHITECTURAL ASSISTANT (TEMPORARY) of or approaching Intermediate Standard in Architectural Section of Engineer and Surveyor's Department

tural Section of Engineer and surveyors Department.

Commencing salary and Grade will be fixed in accordance with qualifications and experience.

Appointment subject to National Scheme of Conditions of Service, Local Government Superannuation Acts, a satisfactory medical examination and one month's notice on either side.

Applicants should write within 14 days stating age, experience and present salary, and giving names and addresses of two referees.

B. W. RANDS,

Clerk to the Council.

Merton,"
5, Grove Road,
Farcham, Hampshire.

5, Grove Road,
Farcham, Hampshire.

COUNTY BOROUGH OF GATESHEAD
Applications are invited from qualified and
experienced persons for the following appointments which are subject to N.J.C. Conditions:
SENIOR ARCHITECTURAL ASSISTANTSA.P.T. V (1795-1770).
Applicants must be Registered Architects and
should be Corporate Members of the Royal
Institute of British Architects. They should have
had good experience in the design and construction of Public Buildings, Schools and/or Municipal Housing Schemes.
JUNIOR ARCHITECTURAL ASSISTANT—
A.P.T. I-III (4530-4765).
Applicants should have had previous experience
in an Architect's Office and must have passed
the R.I.B.A. Intermediate Examination.
Posts pensionable subject to medical examination and one month's notice on either side.
Applications, on forms obtainable from the
Borough Surveyor, Swinburne Street, Gateshead,
8, must be returned to him not later than 14th
June, 1956.

C. D. JACKSON,
Tanno Clerk

C. D. JACKSON, Town Clerk. Town Hall, Gateshead, 8, 24th May, 1956. 1204

COUNTY BOROUGH OF HALIFAX
ARCHITECTURAL AND TOWN PLANNING
ASSISTANTS
Applications are invited for the following
appointments:

ASSISTANT
ARCHITECT (General), salary

£690-£840. ASSISTANT ARCHITECT (General), salary £595—£675. TOWN PLANNING ASSISTANT, salary £595—

Applications stating age, education and training, qualifications, present and past appointments (with dates and salaries) and experience, accompanied by copies of two recent testimonials should reach me by Monday, 18th June, 1956.

RICHARD de Z. HALL,
Town Clerk.

Town Hall, Halifax.

Halifax.

SENIOR ARCHITECT
The METROPOLITAN BOROUGH OF BERMONDSEY invite applications for the appointment of SENIOR ARCHITECT in the Borough Engineer and Surveyor's Department from persons not over 45 years of age to take charge of the Architectural Section of the Borough Engineer and Surveyor's Department, Grade VII, 2975—21.200, plus London weighting.
The commencing salary will be fixed in accordance with qualifications and experience. Candidates must be Associates of the Royal Institute of British Architects, with considerable office experience, particularly of multi-storey housing projects. They must be capable of organising and supervising the work of the Architectural Section and should have a contemporary approach to Architecture.

Applications must be made on the appropriate form, obtainable from the undersigned, and returned not later than the 17th June, 1956.

S. E. FREEMAN,
Municipal Offices,

Municipal Offices, Spa Road, S.E.16.

1212

S.E.16. 1212

METROPOLITAN BOROUGH OF BATTERSEA'
BOROUGH ENGINEER AND SURVEYOR'S

DEPARTMENT

Applications are invited for the appointment of
JUNIOR ASSISTANT BUILDING SURVEYOR,
Grades A.P.T. II-III. 4595-4765 per annum, plus
London weighting. Commencing salary according
to qualifications and experience.
Preference given to applicants who have passed
the Intermediate Examination (Building SubDivision) of the R.I.C.S. Previous experience in
local government an advantage but not essential.
Application forms from Borough Engineer and
Surveyor. Town Hall, S.W.11. Closing date 18th
June, 1956. 1213

LONDON COUNTY COUNCIL
ARCHITECT'S DEPARTMENT
Vacancy for ARCHITECT GRADE III (salary
up to 1937) in HISTORIC BUILDINGS SECTION.
Duties include inspection, preparation of schemes
for restoration, and the maintenance of buildings
of architectural and historic interest in the
Council's possession. A.R.I.B.A. or equivalent
preferred.
Particulars and application form, returnable by
2th June, from Architect (AR/EK/HB/3), County
Hall, S.E.1. (908).

COUNTY BOROUGH OF STOCKPORT
ARCHITECT required. A.P.T. Grade VI (£880—
£1,000). Commencing salary according to qualifications and experience. Appointment in connection with public buildings. Details and names and addresses of two referees to Borough Architect, Town Hall, Stockport, by 16th June, 1956. Post pensionable, subject to medical examination. Canvassing disquaifies. Applicants to disclose whether related to any member or senior officer of Council.

vassing disquaifies. Applicants to disclose whether related to any member or senior officer of Council.

CHELTENHAM COLLEGE OF ART STUDIO INSTRUCTOR required for School of Architecture in September. Grade B. Applications by Saturday, 9th June. Forms and details from the Principal.

PEAR DISTRICT NATIONAL PARK Applications are invited for the undermentioned appointments under N.J.C. service conditions in the office of the Peak Park Planning Board at Bakewell.

(a) ONE PLANNING ASSISTANT. A.P.T. Grade III. (£640—£765).

(b) ONE JUNIOR PLANNING ASSISTANT. A.P.T. Grade III. (£655—£675).

For appointment (a) applicants should have passed an appropriate examination and have varied planning experience and for appointment (b) a varied experience in planning work, including draughtsmanship, is desirable and applicants should be of T.P.I. Intermediate standard. Application forms, with further details of poets, obtainable from the Planning Officer, Aldern House, Bakewell, Derbyshire, to be returned by 13th June, 1956. Canvassing disqualifies.

BORGUGH OF WATFORD

APPOINTMENT OF CHIEF ASSISTANT QUANTITY SURVEYOR

Applications are invited for the above post on Grade A.P.T. V (£795—£970).

Applicants should be accustomed to the preparation of Bills of Quantities, Specifications, Estimates and settlement of accounts in connection with building work. The holding of a professional qualification will be given to the professional qualification will be an advantage.

Consideration will be given to the profession of housing accommodation for the successful applicants.

cant.
Forms on application, returnable on 11th June,

F. C. SAGE, Borough Engineer, Surveyor and Architect.

Town Hall, Watford. 22nd May, 1956.

Tenders Invited
6 lines or under, 12s. 6d.; each additional line, 2s.

BOROUGH OF EALING ERECTION OF 27 FLATS

Tenders are invited for the erection of three blocks of three-storey 2-bedroom and 1-bedroom flats at Compton Crescent, on the Lime Trees Estate at Northolt.

Forms of Tender and Bills of Quantities may be obtained from the Borough Surveyor, Town Hall, Ealing, W.5, on and after Friday, 1st June, and upon a deposit of £2, which will be returned on receipt of a bona-fide tender.

Tenders (in plain sealed envelopes endorsed "Tender for 27 Flats, Lime Trees Estate," but bearing no name or mark indicating the sender), must be delivered at my office not later than 9,30 a.m. on 22nd June, 1956.

The Corporation do not bind themselves to accept the lowest or any tender.

E. J. COPE-BROWN.

Town Hall, Ealing, W.5.

Town Hall, Ealing, W.5.

BOROUGH OF EALING
FLATS, FAIRVIEW ESTATE, NORTHOLT
Tenders are invited for the erection of two
blocks of 3-storey flats (comprising 36 flats and
site works) in Wismere Drive, Fairview Estate,

blocks of 3-storey hats comprises of the site works in Wilsmere Drive, Fairview Estate, Northolt.

Forms of Tender, Bills of Quantities and Plans may be obtained from the Borough Surveyor, Town Hall, Ealing, W.5, upon a deposit of £2, which will be returned on receipt of a bona-fide Tender.

Tenders (in plain sealed envelopes endorsed

Tenders (in plain sealed envelopes endorsed Tender for 36 Flats, Fairview Estate," but bearing no name or mark indicating the sender), must be delivered at my office not later than 9.30 a.m. on 22nd June, 1956.

The Corporation do not bind themselves to accept the lowest or any Tender.

E. J. COPE-BROWN.

Town Clerk.

Town Hall, Ealing, W.5.

Town Hall, Ealing, W.5.

Architectural Appointments Vacant 4 lines or under, 7s. 6d.; each additional line, 2s. A lines or under, 7s. 6d.; each additional line, 2s.

HASTIB, WINCH & KELLY require AECHITECTURAL ASSISTANT. able to take charge of medium-sized jobs, including Churches, Hostels, Factories, etc. Telephone for an appointment, WEL, 865, or write with particulars to 1. Bentinck Street, W.1.

ARCHITECTURAL ASSISTANTS, Senior and Junior required, preferably with London practice experience, office and factory buildings. Write, giving particulars of experience, etc., to Meesers. Betes & Sinning, 89, Chancery Lane, W.0.2.

CO-OPERATIVE WHOLESALE SOCIETY, LTD.
ARCHITECT'S DEPARTMENT, MANCHESTER.
A PPLICATIONS are invited for the following
appointments:

appointments:—
(a) SENIOR ASSISTANT ARCHITECTS, with sperience of work on commercial and industrial

experience of work on commission.

Salary range £820 to £976 per annum.)

(b) ASSISTANT ARCHITECTS, capable of preparing working drawings from preliminary details.

(Salary range £850 to £830 per annum.)

There is a five-day week in operation, and both appointments offer prospects of upgrading.

Applications, stating age, emperience, qualifications and salary required, to G. S. Hay.

A.R.I.B.A., Chief Architect, Co-operative Wholesale Society, Ltd., 1, Balloon Street, Manchester, 4, 3871

CO-OPERATIVE WHOLESALE SOCIETY, LTD., ARCHITECT'S DEPARTMENT.
LONDON.

ARCHITECT'S DEPARTMENT.
LONDON.

AND SHOP FITTING DRAUGHTSMAN.
Applications are invited from suitably qualified persons. Salary on a scale \$485—2945 inclusive of L.W., with placing according to age, qualifications and experience. The posts are superannuable, subject to medical examination. Five-day week in operation. Applications, stating age, experience, qualifications and salary required, to.—W. J. Reed, F.B.I.B.A., Chief Architect, Co-operative Wholesale Society, Ltd., 99, Leman Street, London, E.1.

A RCHITECTURAL. ASSISTANTS

A RCHITECTURAL ASSISTANTS required for small West End Office. Good salaries. Write to Box 9580.

RCHITECT with small varied practice in West London requires ASSISTANT for preparation of working drawings, running contracts, etc. Salary £600-£700, according to experience.—Write details, Box 9728.

perience.—Write details, Box 9728.

LONDON Consultants require immediately ASSISTANTS of both Inter. and Final B.I.B.A. standard for varied and interesting contamporary industrial projects. Responsibility given to applicants with good design sense and constructional ability. Apply, giving full particulars and salary required. to Box No. 407, Glovers Advertising Ltd., 361, Oxford Street, London, W.I. 9349.

BNIOR ARCHITECT required for work in South Wales on the design and co-ordination of industrial projects. Candidates must be qualified A.R.I.B.A.—Please write, giving details of previous experience and salary required, to Box No. 417, Glovers Advertising, Ltd., 351. Oxford Street London. W.1. 9693

A SSISTANT A SSISTANT ARCHITECTS required for interesting work on modular, prefabricated structures of varied types. A contemporary outlook is preferred, and applicants should be Associates or approaching qualifications.—Please write, stating salary required, age, and details of experience, to Box 9985.

A RCHITECTURAL ASSISTANT required.

A Good draughtsman with office experience and knowledge of building construction.—Apply, stating salary required. to Caroe & Partners, 16. Great College Street, Westminster.

JUNIOR ASSISTANT required. Must be good draughtsman and with some previous office experience.—Write, with full particulars and salary required, Jackson & Jackson, F./L.R.I.B.A., 13. North Street, Ashford, Kent.

A RCHITECTURAL ASSISTANT of Intermediate standard, preferably with previous office experience, required immediately for busy general practice in Home Counties. Travelling expenses to interview paid.—Write, stating age, experience, and salary required, to Box 9996.

RCHITECTURAL ASSISTANT, Intermediate standard, required for busy office near Nottingham with interesting and varied bractice, Salary according to experience.—Apply Box 1018.

JAMPS & BYWATERS urgently require ASSIST TANT of Intermediate standard or higher detailing various types of buildings. Salary according to experience and qualifications.—Apply in writing to 5. Bloomsbury Street, W.Cl. or telephone Museum 9952.

A SSISTANTS required by Architects with extensive London and Provincial practice, including large reinforced concrete and steel-framed structures.—Apply Box 1037.

RCHITECTURAL ASSISTANT required in Architect's Department of London Brewery Company. Must be good draughtsman.—Write, stating age, experience, salary required, Box

CITY Architects' Office require experienced ASSISTANT, with contemporary outlook. Commencing salary £900 per annum. Congenial office conditions.—Box 1055.

DOISSEVAIN & OSMOND require JUNIOR ARCHITECTURAL ASSISTANTS with a contemporary outlook. They should be good draughtsmen with some office experience. Excellent opportunities for rapid advancement for the right man; it is our policy to give responsibility commensurate with ability. Please telephone HOL 3381 for appointment.

RAMSEY, MURRAY, WHITE & WARD have

No vacancies for:—
(a) QUALIFIED ARCHITECT, with at least
12 months' office experience since qualifying.
(b) ARCHITECTURAL ASSISTANT, advanced
student R.I.B.A., with at least 12 months' office

student R.I.B.A., Wish at least 12 inclines carried experience.

Salary to be agreed on the basis of qualifications and experience.

Apply 32. Wigmore Street, London, W.I., or telephone WELbeck 1409.

9625

Apply 32. Wigmore Street, London, W.I. or telephone WELbeck 1409.

6025

CO-OPERATIVE WHOLESALE SOCIETY, LTD. ARCHITECT'S DEPARTMENT, BIRMINGHAM, APPLICATIONS are invited for the following Applications in a newly formed Branch Office. Interesting and varied commercial and industrial projects.

(a) SENIOR ASSISTANT ARCHITECT, with experience in Store and Shop Design.

(Salary range 2830 to 2975 per annum.)

(b) ASSISTANT ARCHITECTS, capable of preparing working drawings and details from preliminary sketches.

(Salary range 2850 to 2820 per annum.)

Both appointments offer prospects of upgrading. Applications, stating age, experience, qualifications, and salary required, to G. S. Hay. A.R.I.B.A., Chief Architect, Co-operative Wholesale Society, Ltd., J. Balloon Street, Manchester, 4, 3872

THE ARCHITECTS' JOURNAL' required in the preparation of Information Shoots and Working Details. First class draughtemanship, knowledge of building construction and a keen interest in the compilation of technical information. Write to the Editor (Information Sheets), 9, Queen Anne's Gate, S.W.1, stating age, architectural training, and experience.

ARCHITECTURAL ASSISTANTS required for St. Albans office for work on School, Commercial and Housing projects. Should be good draughtsman with contemporary author.

ARCHITECTURAL ASSISTANT required in

A RCHITECTS ASSISTANT required in writing to Kenneth F. Masson, A.E.I.B.A. Chief Architect, S.C.W.S. Ltd., 76, Morrison Street, Glasgow. C.S. Morrison Street, Glasgow. C.S. Sistandary required to A. B. Smith, A.R.I.B.A., 22, South Audie Street, London, W.I. Lang, 22, South A.R.I.B.A., 23, Smith, A.R.I.B.A., 23, Smith, A.R.I.B.A., Chief Architect, S.C.W.S. Ltd., 76, Morrison Street, W.C.I. Smith, A.R.I.B.A., Chief Architect, S.C.W.S. Ltd., 76, Morrison Street, Glasgow. C.S. Smith, A.R.I.B.A., Chief Architect, S.C.W.S. Ltd., 76, Morrison Street, Glasgow. C.S. Smith, A.R.I.B.A., Chief Architect, S.C.W.S. Ltd., 76, Morrison Street, Glasgow. C.S. Smith, A.R.I.B.A., 22, South Audley Street, London, W.I. 1993.

\*\*Experienced Architect, S.C.W.S. Ltd., 76, South Audley Street, London, W.I. 1993.

\*\*Experienced Architect, S.C.W.S. Ltd., 76, South Audley Street, London, W.I. 1993.

\*\*Experienced Architect, S.C.W.S. Ltd., 76, South Audley Street, London, W.I. 1993.

\*\*Experienced Architect, Company of Archite

A RCHITECTURAL ASSISTANTS required by London Architects. Salary £500 to £1,000 per annum (plus benefit of Pension Scheme) according to experience.—Reply Box 1186.

A SSISTANT ARCHITECT required by large commercial firm for Branch Office in Newcastle. Applicants must be A.R.I.B.A., capable of supervising staff and controlling work through all stages of development, must hold a current driving licence. 5-day week, good Pension and Life Assurance Scheme, sickness benefits, and free luncheon vouchers. Social club.—Write, giving full details, stating age, experience, and salary required, to Box 1185, quoting ref. AA144.

A RCHITECT'S ASSISTANT required with

A RCHITECT'S ASSISTANT required, with good general experience, West London.— Hammond & Harvey, 8-10, King Street, Hammer-smith, W.6. Tel. RIV. 3108.

A RCHITECT'S ASSISTANT.—Assistant, passed A RCHITECT'S ASSISTANT.—Assistant, passed Internediate R.I.B.A. required for City office, to assist in the preparation of drawings for substantial contracts, including Research Laboratories, Factories, Hospitals, Schools and Licensed Premises. Work includes visits to Building Sites and work in progress. Salary up to £600 per year, according to qualifications and experience. Good prospects for keen man. 5-day week. Free lunch vouchers and overtime if desired. Later summer holidays by arrangement. —Write, giving full particulars, to Stewart & Hendry, FF/R.I.B.A. A.M.T.P.I. 90, Fenchurch Street, E.C.3. A SSISTANT ARCHITECT.—Fully qualified Assistant Architect, age not over 40, required immediately in City office to assist Principals in the running of substantial contracts, including Research Laboratories, Factories, Hospitals, Schools and Laboratories, Factories, January 10, 283 per year, according to qualifications and experience. Good prospects for the right man, able and willing to accept responsibility and possessing initiative 5-day week, free lunch vouchers and overtime if desired. Late summer holidays by arrangement.—Write, giving full particulars, to Stewan & Hendry, FF,R.I.B.A., A.M.T.P.I., 9, Fenchurch Street, E.C.3.

PROMINENT Architects' Office in London, principally engaged in large industrial projects, requires ASSISTANT or JUNIOR. Salary in accordance with age and experience. Applications, giving qualifications, experience, and when available, should be made to Box 1192.

A RCHITECTURAL
DRAUGHTSMEN required
immediately, R. H. Pickles,
Harrison Road, Halifax.

ASSISTANTS
urgently.—Apply
A.R.I.B.A., 1
119

INTERMEDIATE STANDARD ARCHITECTURAL ASSISTANT required by Birmingham firm. Contemporary design. Salay from £500 p.a., according to experience. Concessions for study by arrangement.—Box 1190.

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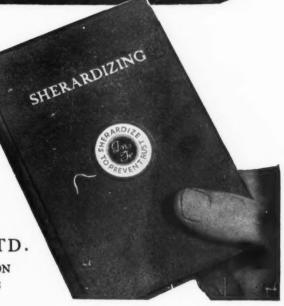
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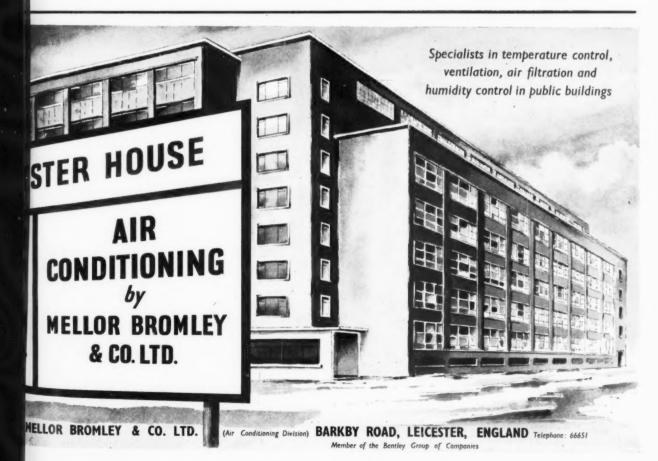
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