ARCHITE 80 1951



tandard

contents

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

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

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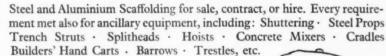
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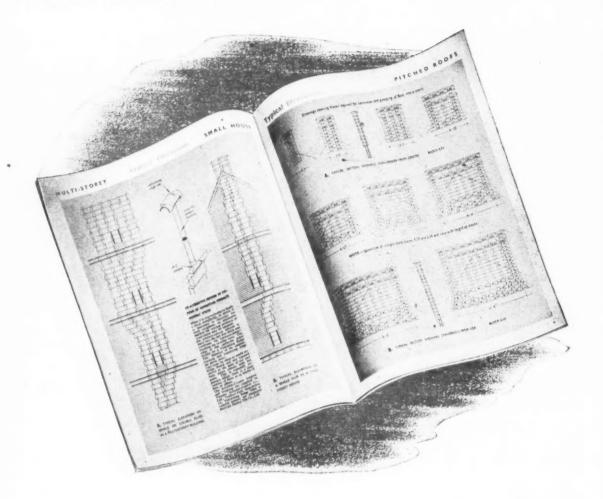
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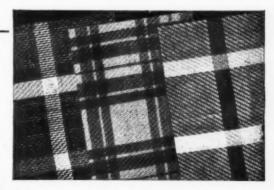
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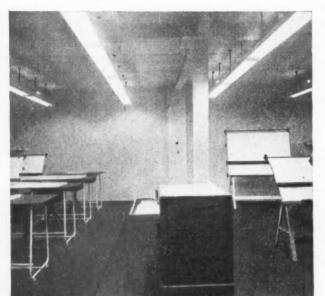


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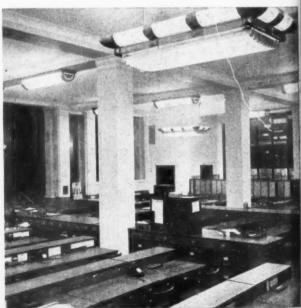
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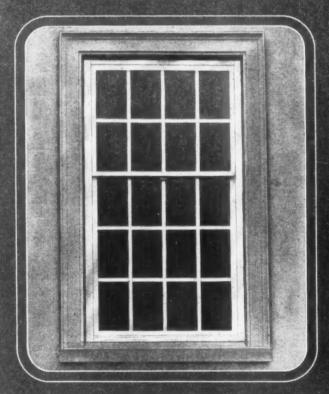


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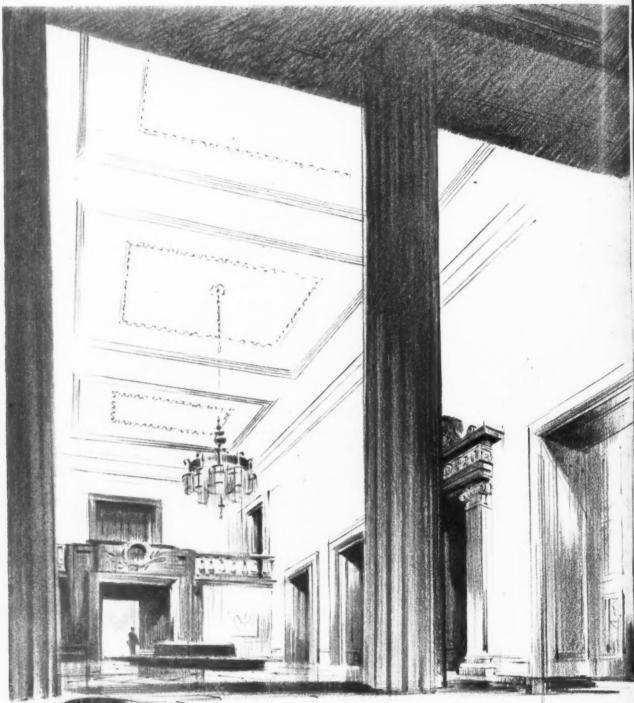
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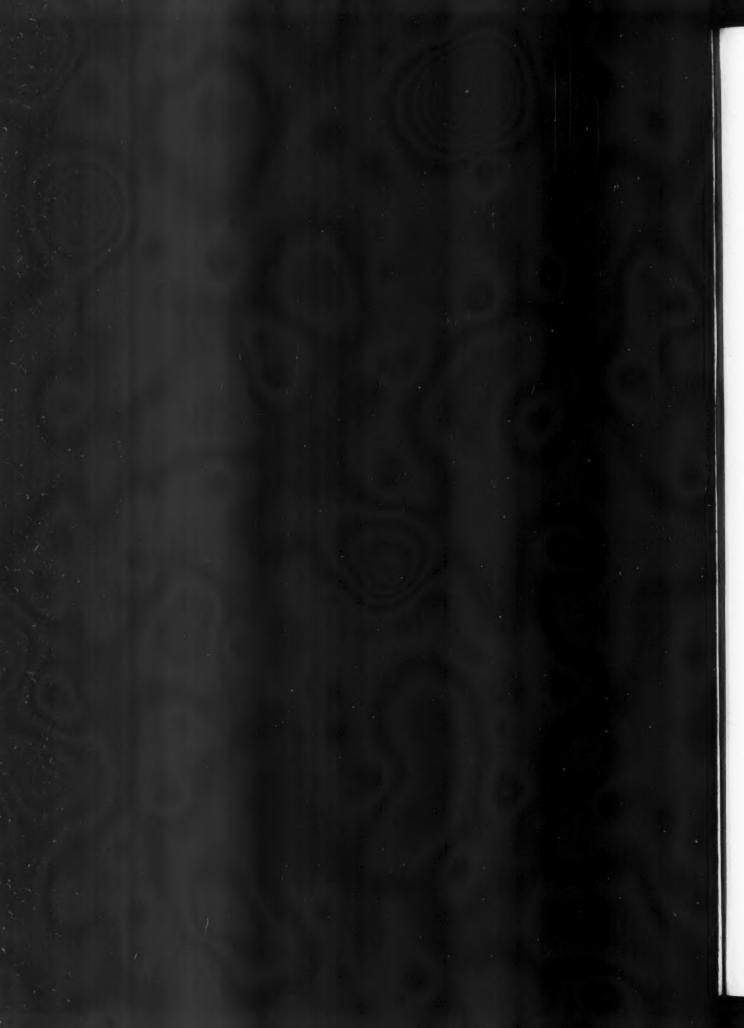


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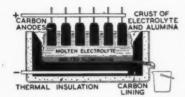
- INTRODUCTORY

Extraction

Aluminium is the most abundant metal in the earth's crust. Its most useful natural form, however, is the hydrated oxides that largely compose the mineral bauxite. This does not respond to simple smelting methods, and the metal was not isolated until 1825. Thereafter, small amounts of aluminium were produced by reduction by sodium, but it remained a very costly metal. In 1886, however, a very much cheaper way of reducing aluminium oxide (alumina), by electrolysis, was discovered, and this process is the one now in use.

Briefly, the ore is first treated to produce pure alumina; this oxide is dissolved in molten cryolite and a heavy electric current is passed through the solution from carbon anodes, near the surface, to the carbon lining of the bath. The oxide is broken down electrolytically, the oxygen combining with the anodes to escape as carbon dioxide, and metallic aluminium sinks to the bottom, whence it is tapped from time to time. Little change takes place in the cryolite; the carbon anodes are consumed and have to be regularly replaced.

Four pounds of high-grade bauxite are needed to produce two of alumina, which will in turn yield one pound of aluminium of over 99% purity. Roughly 10 kWh of electricity are consumed for each pound of metal obtained from the reduction cell; this makes cheap and plentiful power essential, and the world's main reduction plants are sited on specially built hydroelectric schemes.



Electrolytic Reduction Cell

Fabrication

Of the aluminium produced, more is marketed as sheet than in any other form. Sheet rolling is not basically different from that of most other metals, and similar equipment is used: a prepared cast ingot is passed through a succession of pairs of hard steel rolls and its thickness reduced step by step to that desired. It is first rolled

This is the first of a number of short factual reviews of those features of the metal aluminium that are relevant to its use as an engineering material. The series is intended primarily for students, to enable them to widen their acquaintance with an element that has grown, perhaps rather too quickly for the standard text books yet to have followed, to an industrial significance second only to that of steel. We hope that they may find the data worth keeping for reference when they meet aluminium, as they will ever more frequently do, in their future careers.

hot, but the final reductions are made on the cold sheet to obtain a good finish and perhaps, by work hardening, a desired degree of hardness. The production of accurately-gauged, flawless sheet and strip demands very precise and elaborate equipment and much experience.

Equal in importance is the extrusion process, by which lengths of metal of constant cross-section, solid or hollow, are made. Very high pressures are used to force hot plastic aluminium out of a container through a steel die of the required shape. This process produces, in a single operation, sections that could be made in no other way. Aluminium is one of the few structural metals that can be extruded, and the variety of intricate sections possible encourages ingenious design in many products.

Seamless light-gauge tube is made by drawing down extruded thick-walled tube through hard steel dies. Rolled sections and rod are formed by passing a cast billet or heavy extruded bar through a series of shaped rolls; by drawing the rod through dies it is further reduced into wire. A principal use of rod and wire is for making rivets.

Although now accounting for a lesser volume of metal than sheet rolling or extrusion, casting and forging are practised on a large scale.

Casting was the earliest way of making things in aluminium, and was in use from the first days of the motor industry, which is still a major consumer in crankcases.

pistons, and other engine parts. Sand moulds, or iron or steel "permanent" moulds (gravity dies), are used.

Forging is suitable for highly stressed but more simple parts, such as engine connecting rods or propeller blades. A piece of hot aluminium is simply hammered or pressed to shape between a pair of hard steel dies.

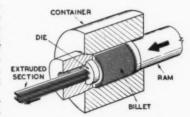
Why it is important to the engineer

The properties of aluminium are to be discussed in later articles of this series, but we should mention two of the characteristicsthat made aluminium worth developing, and that lie behind its wide acceptance as a primary structural material.

The first is well-known: that the specific gravity of the metal is low (2.70), about a third of that of steel. This gives it first place where lightness is sought in structures or mechanisms, for its strength, slight in the pure state, can by alloying and by mechanical and thermal treatment be raised to equal and surpass that of structural steel.

Not, perhaps, so widely appreciated is aluminium's power of resisting damaging attack by the atmosphere. This, probably as much as low weight, has promoted its use in building for the sake of long life and freedom from recurrent painting costs. Marine conditions are adequately withstood by suitable alloys, which are in use in many sea-going craft. Its reluctance to corrode, and the harmlessness of its salts, make the metal of value in the processing and packing of food.

In its short life, aluminium has become established as a material useful to most branches of engineering, indispensable to some.



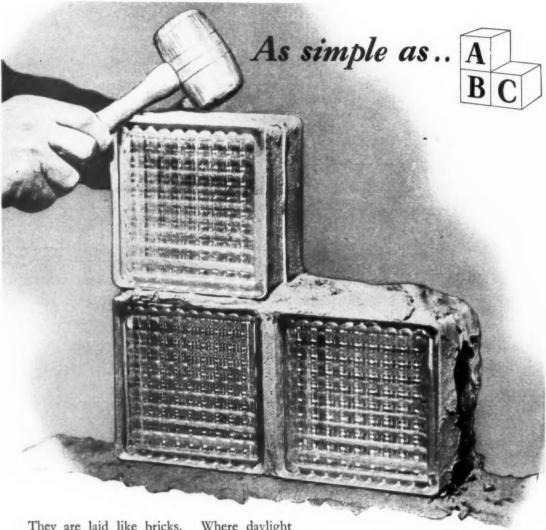
The Extrusion Process

The further articles in this series will deal with specific aspects of the metal and its behaviour.

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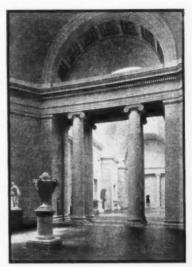


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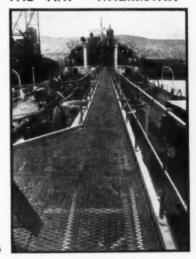


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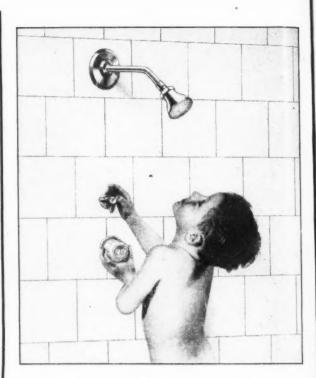


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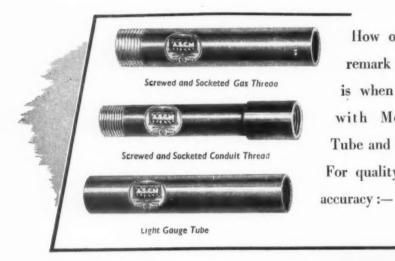
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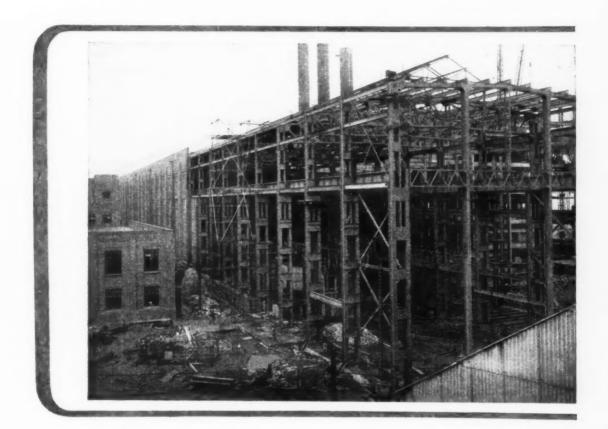
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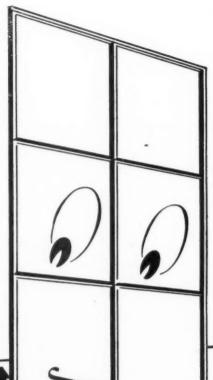


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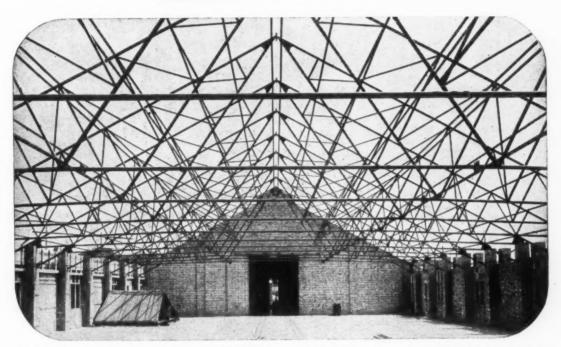
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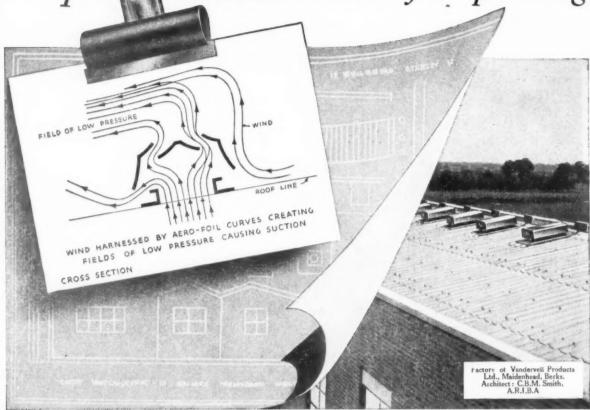
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Furthermore, these aero-foil curves assist this natural process by harnessing the free power of the wind and roof eddies, no matter from which direction they come, creating a suction which can produce a power of extraction equal to that of mechanical means without the drawbacks of noise, wearing parts or operating and maintenance costs.

operating and maintenance costs.
These aero-foil curves have been so designed as to give a flat curve of extraction to prevent extraction from becoming excessive with the high winds of winter.
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Colt Ventilation Ltd., Surbiton, Surrey. ELMbridge 6511-5 Also at Birmingham, Bradford, Bristol, Kilmarnock, Manchester, Newcastle, Newport (Mon.) and Sheffield



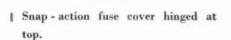
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- 2 Up to eight sub-circuits with fully-protected cartridge fuses, coloured to B.S. 1361: 1947; arranged in any combination of 5-amp., 15-amp. and 30-amp. ratings.
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- 4 Moulded knock-outs for cable entry in four sides and back.
- 5 Earth terminal.

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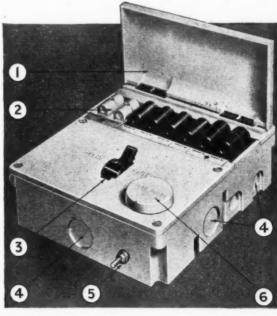
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Saracen'S HEAD

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Electrical Contractors :
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Ltd., Birmingham 1



The Saracen's Head, Shirley, is situated on the main Birmingham to Stratford Road and is typical of many Public Houses which have been reconstructed and extended over recent years. That BRITMAC products have figured so prominently in such reconstruction and new building programmes is evidence of the fine quality and superior workmanship of every component and it is these characteristics, coupled with a prompt and personal service, which have influenced both Architects and Breweries alike to accept BRITMAC ELECTRICAL ACCESSORIES as standard.

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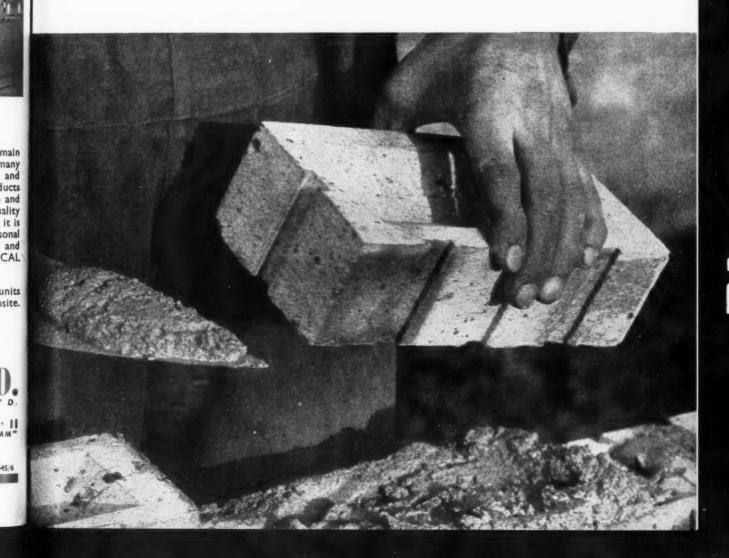


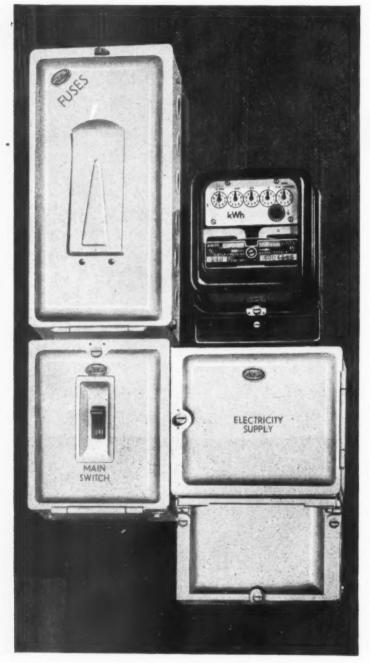
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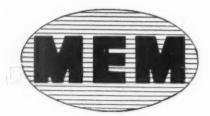
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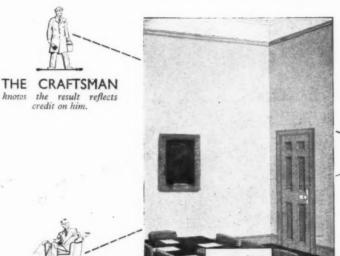
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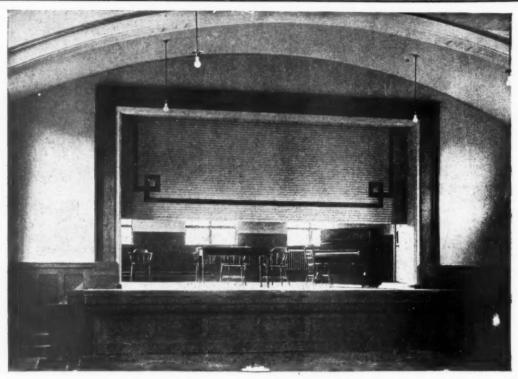
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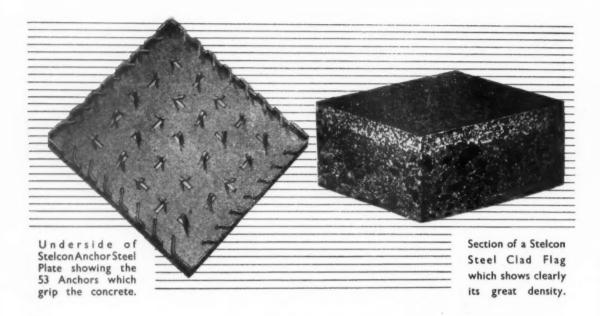
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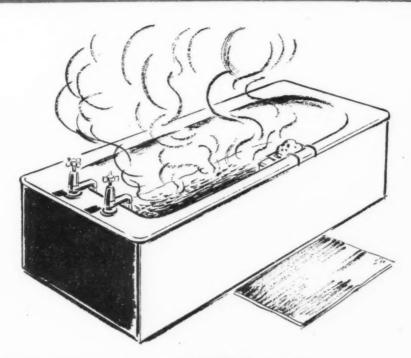
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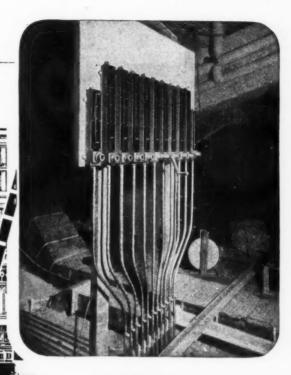
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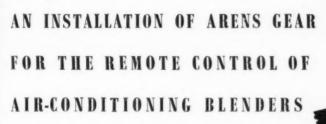
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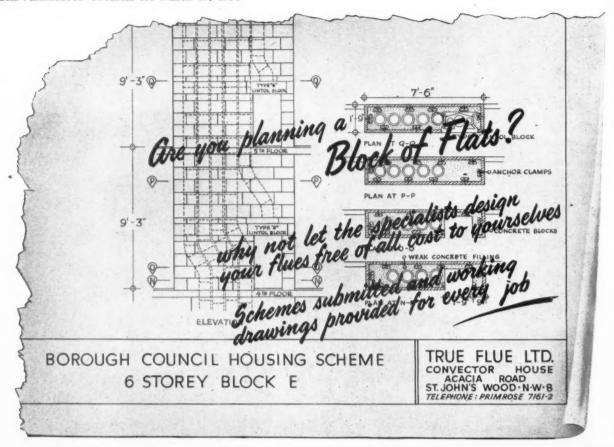
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Illustration shows Pattern No. M. 1008. Other Patterns and full particulars in Catalogue A.J. 58.

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NC

for Lotus eaters



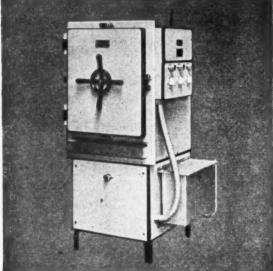
This is a small part of the magnificent all-electric canteen recently opened by Messrs Lotus Ltd at their Stone (Staffs) factory. It's said that it 'approaches more closely to the principles of planned flow than any . . . yet seen'

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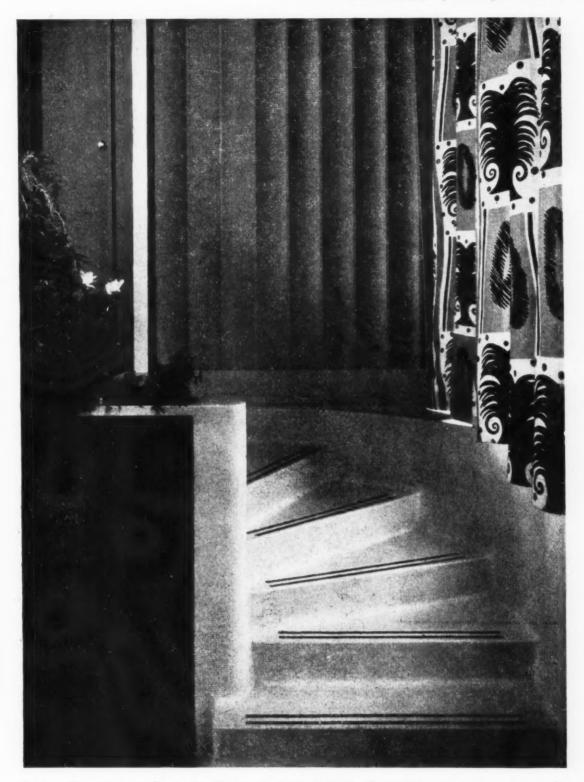
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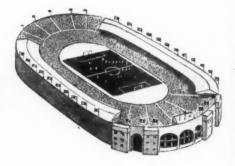
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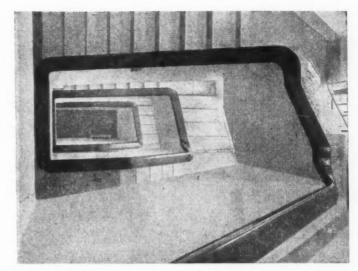
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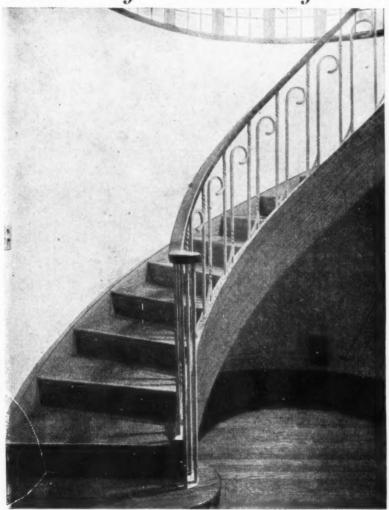
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Right: Continuous handrail round three floors of an open well staircase. Its construction, as well as that of the interesting semi-circular flight of stairs shown below, involved many problems of craftsmanship, which Sadds knew how to solve. At the same time, their works are equipped for economical production of long runs of staircases for housing schemes.



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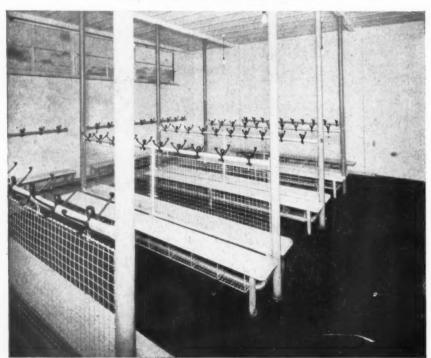
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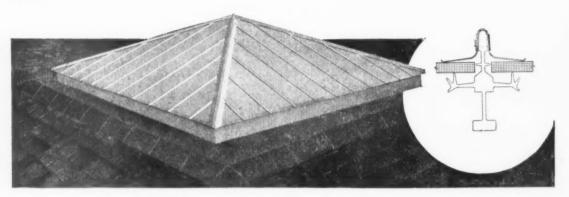
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This office at the Doncaster Co-operative Society is a picture of functional beauty. In no small measure this is due to the attractive colour and subtle design of its Dunlop Rubber Flooring.

But the picture cannot show the quiet, the resilience and the long-lasting wear that Dunlop Rubber Flooring provides. Today more and more Dunlop Rubber Flooring is being installed.

In the hands of the craftsmen of the Dunlop Rubber Installation Service, the 46 plain and marbled shades can lend beauty as unique as it is durable. Monograms and special patterns (see inset) can be made to any design: Dunlop designers will be pleased to assist. Full details of the product and service may be obtained at any of the addresses below.

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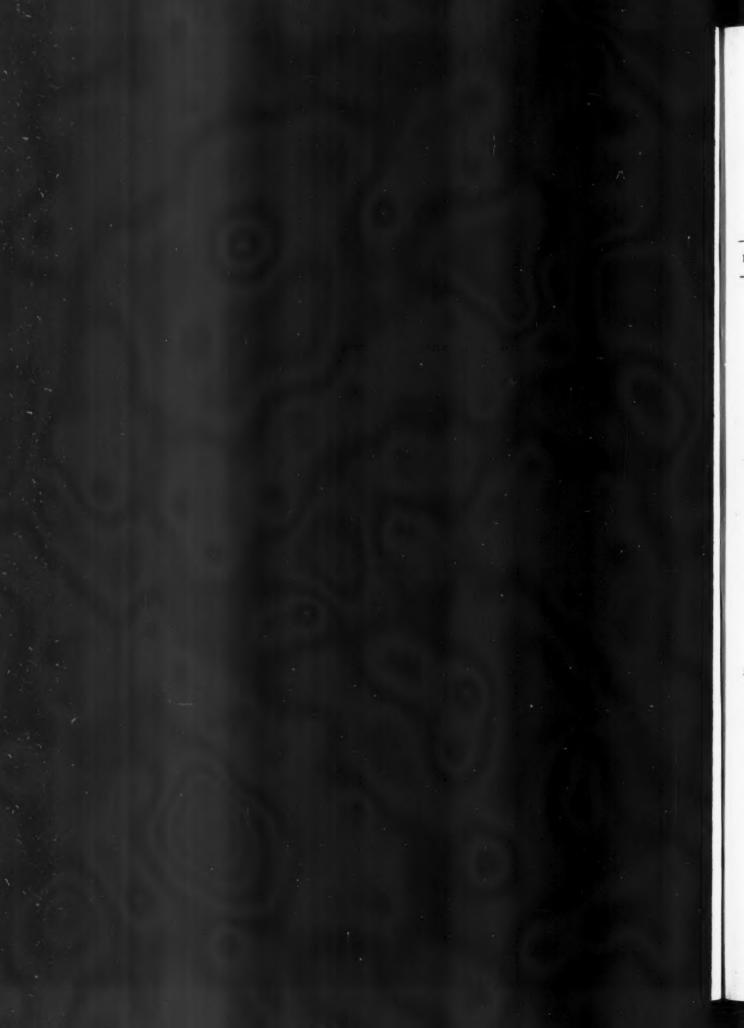
B.I.F. Complete installations and range of patterns and colours can be seen on Stand No. D 520 Castle Bromwich, Stand No. E.24, Olympia, April 30-May 11

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THE ARCHITECTS' JOURNAL

No 2924

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IDEAL HOME

There's a certain amount of Victorian whimsy at this year's Ideal Home Exhibition, but not enough to be really irritating. The furniture most worth seeing is, as usual, by Dunn's and Heal's with some interesting new designs by Story's of Kensington; see, too, the Morris furniture in the Berg House. The rest of the show is much as usual, with the houses slightly better, though it seems to me that they are all furnished to a standard of luxury which hardly any buyers can afford.

ATOMIC ART

The scheme sponsored by the CID in which a number of manufacturers have been producing for Festival year patterns based on crystal structure diagrams-i.e., diagrams showing the arrangement of the atom in particular materials—have now been made public, together with some of the results. The results, as one might have expected. are good, bad and indifferent; you will have plenty of opportunity of judging for yourself since the Regatta Restaurant on the South Bank will be full of them and they will turn up in a good many other places too.

But what of the idea behind the scheme? Have we here at last a true love match between science and artor just a marriage of convenience? I can't help feeling that it is the latter. The chief point that strikes me about the crystal structure diagrams that I have seen is that they look so remarkably like the patterns that designers who have never heard of the things have been producing for some years past. Nature, as usual, imitates art.

MORE V AND A

Under the directorship of Sir Leigh Ashton, the V & A is rapidly becoming the pleasantest of all London museums to visit. In the rearranged galleries the technique of display is exemplary, and everything possible has been done to make one forget the over-bearing character of the building which contains them.

But one's pleasure is enhanced most of all by the new principle of arrangement, according to which works are grouped by period instead of—as they used to be-by the medium in which they are executed. In the old days it simply wasn't possible to see if a pot and a picture made in the same country at the same time had anything in common; they were probably 100 yards apart with an acre of needlework and 100 tons of sculpture to

distract the attention in between. All that is now changed.

The occasion of these remarks? The re-opening of a further seventeeen rearranged rooms, mostly devoted to the Italian Renaissance. Go and see them.

DIFFERENTIAL RENTS

I see that a local authority trying to vary rents in proportion to the gross incomes to the families concerned has got itself into trouble by trying to check tenants' statements about wages with their various employers. This has aroused a great deal of local resentment as being something approaching the ever unpopular means test. I am not so much concerned with the argument but it appears that there is quite a large group of families with gross incomes of over £1,000 a year. Is there any reason why these people should be living in subsidized houses? And do most of them want to? I very much doubt it, even though I am certainly not pro spec-builder.

LIKE A SNAIL, UNWILLINGLY . . .

I often wonder whether school programmes are designed to produce good architectural assistants, able at least to draw quickly and neatly, or good architects. Architectural education might be divided into two parts: design (æsthetics, construction, planning) and practice (i.e. seeing that the design is built at the time, in the way, and of the materials which you desire). Far too many schools today still seem to over-emphasize the importance of work on the drawing board, in particular the production of the entirely unrealistic convention of such-and-such a scale drawings. Drawings, of course, have their uses, besides impressing external examiners, but are only a



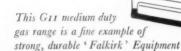
"Now if I were a Captain of Industry...

I'D PUT IN 'FALKIRK'
HEAVY DUTY COOKING EQUIPMENT"

'INDUSTRIAL RELATIONS' was a phrase uncoined when Sir Francis Drake was sailing rings round the Armada lumbering its way up Channel, but his probable attitude can be judged by his well-known order: "I must have the gentlemen to haul and draw with the mariner, and the mariners with the gentleman. I would know him who would refuse to set a hand to a rope." If Sir Francis were in charge of a modern industrial staff he would sing out loud and clear for 'Falkirk' cooking equipment to provide hot, adequate wholesome meals. 'Falkirk,' acknowledged experts in this field, make cooking appliances for every known type of fuel: gas, steam, electricity, solid fuel and oil. Craftsmanship, experience and fine material ensure that 'Falkirk' equipment stands up to long years of exacting trouble-free service.

'FALKIRK' SERVICE FOR CATERERS

Catering problems vary. Canteens, hospitals, hotels, clubs and cafés cater for different needs. That is why 'Falkirk' maintain a permanent staff of experts to prepare individual plans for every type of kitchen. Representatives are located all over Britain to give advice, supervise installation, inspect and provide maintenance when the kitchens are finally in operation.



THE FALKIRK IRON CO. LTD. FALKIRK, SCOTLAND

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rea not and Know we that La son of dust do cause this tablet to be here inserted that you may not attribute the design of this Building to others than myself which I designed in my Eighteenth year and third of my studentships 1529. During an absence from my native town Belfast the superintendency was entrusted at its commencement to two quacks. Duff and Jackson self-styled architects who so mutilated my designs as to make me almost disown them that portion of the dross you People of refined taste which i can foreset you must be can easily distinguish from the refined—on my return i fostered my own child untill it grew to what you now behold traving began and finished the Peripteral Portico under nw own personal superintendance in the year ISM JOHN MILLAR ARCHITECT.

The above plaque was found inside one of the four cast-iron columns of the entrance portico (right) of Rosemary Street Presbyterian Church, Belfast, when it was destroyed by a bomb in 1941. It reads as follows: Know ye that I a son of dust do cause this tablet to be here inserted that you may not attribute the design of this Building to others than myself which I designed in my Eighteenth year 1829 During an absence from my native town Belfast the and third of my studentship superintendensy was entrusted at its commencement to two quacks Duff and Jackson self styled architects who so mutilated my designs as to make me almost disown them that portion of the dross you People of refined taste which i can foresee you must be can easily distinguish from the refined on my return i fostered my own child untill it grew to what you now behold having began and finished the Peripteral Portico under my own personal superintendance in the year 1831 JOHN MILLAR Architect. A very muddled Ozymandias, the architect never realised that the plaque could not be read unless the church was dismantled. However, he did take the extra precaution of having his name carved on one of the stones forming the frieze and then concealing it with a filling of soft plaster which, in the course of time, fell away, thus revealing the true architect. (Photograph right: courtesy of Belfast Telegraph.)



portion of the architects' task. They have been allowed to assume too much importance in schools, and tend to become merely the most convenient method by which a student's ability can be judged.

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Quite obviously architects cannot be made in five years, but during that time an educational advance on a broad front should surely be attempted. The students' æsthetic, organizing, planning, constructing and drawing powers should be stimulated equally, and in turn, until he hums with potential powers.

As an example, I was recently shown a term's programme for fourth year students at the Northern Polytechnic, London. It was obviously a carefully thought out document, but one or two aspects of it seemed to me rather alarming. For instance, during a period of ten weeks, the students had to design an arts centre (comprising a theatre for 600, exhibition room, library, cloakrooms, and so on) and in that time were expected to present plans, sections and elevations to either one eighth or one sixteenth scale no less than four times. Each presentation was presumably intended to show a further stage in the detailed development of the design. One day of each week was given up to lectures on the construction and acoustic problems of theatre design.

For the student who has started on the right lines all may go well. For

the student who slowly realizes that he has made a wrong decision at the start it is difficult to imagine a more depressing situation: continuously at the drawing board preparing highly finished drawings (tracing paper is discouraged, I am told) or at lectures, he has little time to make a fresh study of the programme and begin again. And this programme, I am told, was a fairly typical one.

These criticisms, perhaps rather unkindly, refer to one specific school: obviously there must be many other schools to which they would equally apply. I wonder, however, how many architectural schools, like the Northern Polytechnic, have a school of building next door and do not regularly and frequently work together?

COVERING UP THE PAST

Spare a tear, my more gentle readers, as you flick over page 332 of this issue, for Birmingham's cast-iron art gallery, which softly now lies sleeping, behind plasterboard and paint. None of the structure has been altered, and all could be put back again as it was, but it was felt that the original style was unsuitable for modern methods of museum display.

I am not complaining about the new scheme. After all, I have been asking for this kind of change for years. Nevertheless, I feel that something is missing, despite the efficient lighting

and the more interesting display of exhibits. You don't know what I am talking about? Oh well then, never mind.

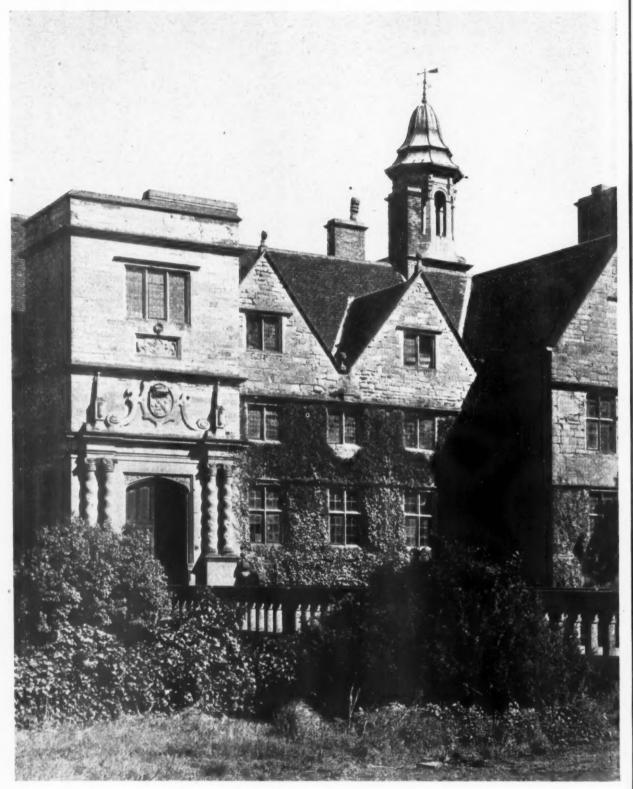
IS A CAVE A HOUSE?

Kidderminster's Registrar was set a pretty problem the other day when the owner of some caves applied for a possession order and the people living in them claimed that the Rent Act applied and that they were protected tenants. The decision has been left for a month at the cave owner's request but it will be interesting to see whether a cave is a dwelling within the meaning of the Act. How many people I wonder are living in hen houses and other odds and ends of accommodation of this kind?

BROGUE ARCHITECTURE

One of ASTRAGAL's roving spies has sent in a report on his two day visit to Dublin—that unknown city with the oldest maternity hospital and the largest brewery in the world. Written on paper stained with bacon fat and reeking of whisky, it reads approximately as follows.

"Travelled North with distinguished grey-haired type, revealed in later conversation as a client's accountant. Beneath each prettily chintzed armchair in the saloon of the new Hibernia leered an apple-green chamber pot. Not wanted on voyage: sea flat and colourless as lead. English visitors wolfing eggs and bacon as watchfully



Saved from Threatened Demolition

Rufford Abbey, which has been in danger of demolition for some time, has now been bought by the Nottingham County Council. It will be remembered that the building, which had been occupied by Italian prisoners-of-war for some years, was about to be demolished by its owner when it was made the subject of a building preservation order. Later, when the County Council had estimated that the

cost of restoring the building would be £60,000, the MOTCP gave it permission to destroy the Abbey, provided the crypt was preserved. The SPAB pointed out that only £11,500 would be needed for restoration work, and this undoubtedly tipped the scales in favour of the preservation of the building. Whether the last of the Dukeries will be put to worthy use remains to be seen.

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as cats. At Dun Laoghaire the ten year strike at Bailey's saloon still on: pickets grey-haired now. At Dublin the taxi driver strapped a stranger's playpen to the roof and dropped us at the Shelbourne Hall packed with duffle coats and Newmarket boots. Hunting notices pinned to board above which hung an ablative absolute announcement: "Letters not being sent to bedrooms, visitors are asked ..." (These things having been done -remember?-Caesar went into winter quarters.) Seen, 1 in. scale dyeline in hand, in the brass and mahogany hall, a famous English lighting consultant. Exchanged a few courtesies on the importance of not destroying character in Edwardian hotels and passed out for a quick tourist rundfahrt. Ensor's Rotunda and Merrion Square; Gandon's Customs House and Scott's Bus Station; the monuments of Chambers and Deane and Woodward; the stucco work of Cramillion in the Rotunda Hospital chapel; the quays along the Guinness-coloured Liffey.

"Everywhere the seagulls, heavy and hunched as vultures, perched on the statues, queueing along the boulevards, hanging outside the Jammets, the restaurant, where, so they say, Dr. Goyartz had the wallpaper changed between the soup and the fish in order to please a sensitive guest (basis of Astragal-type joke here -Jammet yesterday, Jammet today, but jamais . . . oh well, never mind.) Note: turf accountant means bookmaker, but turf factor means fuel office. Procession of IRA men carrying dummy coffin parade briskly past a crocodile of children towing a couple of nuns. Sunday lunch in an 1840 country house looking on to wet lawns, seated next to elderly Irish lady (breeder of horses and self-confessed sufferer from noises in the head). Conversation reveals best - known English architectural names are Ove Arup and Osbert Lancaster: whitewinged Collinstown stretched like a dead seabird over the green aerodrome and a Dublin evening paper read over the mountains of Wales. Last message from Eire in personal column: 'Patrick Kelly, saxophone virtuoso, advertises from Convent View that he will accept engagement for Easter Sunday."

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ASTRAGAL

The Editors

MISSING THEIR SECOND CHANCE

TF the fire of London gave the citizens their first opportunity to replan the City, the last war gave them the second. On pages 327 to 329 of this issue we publish photographs of some of the first buildings which are now being built in the City. These may indicate the degree by which the representatives of these citizens are availing themselves of this opportunity. It is not fair to comment on the æsthetic qualities of the buildings shown until they are finished, though perhaps in some cases enough can be seen to show that they are disappointingly eclectic in style. Our complaint, however, is not against the æsthetic values of the buildings so much as against the design and siting of them in the light of present-day town-planning precepts. To take just one aspect; there is very little indication that the opportunity has been taken to improve the quality of daylighting up to the recommended modern standards by the careful placing of blocks. Nor is it readily apparent that this rebuilding is part of an overall plan which, while solving problems, such as the shortage of office space, traffic congestion, and the provision of open space, will also provide the visual qualities that so many wish to see in this great city. The architects who have designed these buildings would appear to have been as rigidly dictated to on questions of site boundaries, rights of light, density, building lines, and so on, as they have always been in the past. Just as though the benefits of enlightened town planning have yet to be thought of, far less applied.

There is now a unique opportunity for long-term, economic town planning which should not be missed. It would be pessimistic in the extreme to assume that yet a third opportunity, due to similar events, will ever be given to the planners.

FIRE WITHOUT SMOKE

People living or working in a certain area of Coventry are now liable to pay heavy fines if their chimneys are seen to be smoking. This area is the first of the "smokeless zones," the principles of which were suggested by the National Smoke Abatement Society in 1936. The commencement of the zoning scheme two weeks ago, together with the MOH's recent statement that all applicants for house building licences are expected to agree to the installation of solid fuel appliances, at least as efficient as those used by the local authority, shows that real progress is at last being made in the solution of the problem of ridding our country of smoke and grit and its attendant ills.

How are these smokeless zones to be operated? It may seem easy enough to ensure that efficient solid fuel appliances are installed in all buildings in an area that is being reconstructed, but is it possible to make sweeping changes in districts where a great deal of smoke is already produced? And will not the implementation of a Smokless Zone Act be regarded by many

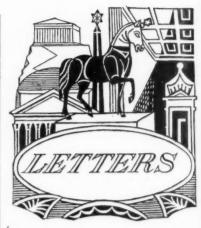
as "interference with the liberty of the individual"? The advantage of the smokeless zone scheme is that, wherever it is operated, it will be started in an area in which it can be administered with ease. In many cases this area will be the city centre, where the heating arrangements of most of the buildings (theatres, shops, offices, etc.) are such that premises may be made smokeless without great difficulty. And as the city centre is the centre of civic pride, an example that is set there will impress the public and will doubtless encourage the city council to accelerate the extension of its scheme.

It might be doubted whether the prevention of smoke in a small area will have any noticeable effect, particularly if it is surrounded by large smoke producing districts. The extent of improvements in the condition of the atmosphere will depend on the size of the area and the day-to-day weather conditions. But it is expected that some degree of improvement will be found under even the worst conditions. And, of course, the small zones must be regarded only as a beginning of a long term scheme of progressive extensions that will be made until whole towns are smokeless.

What of the cost of large-scale conversions of fuel appliances? It is thought that in the central commercial districts the question of costs will not raise any difficulties. And in the factory areas many industrialists will probably be willing to help with a zoning scheme, if only because it is a paying proposition to install modern appliances and to avoid excessive waste of fuel. When the zones include housing districts there may be some difficulties, but these may well be overcome

by the granting of subsidies to property owners by local authorities. The City of Salford is planning to grant such subsidies.

It will be some time before the ten cities which have powers to introduce smokeless zones have done so. Let us hope that other councils will ask for similar powers without waiting for the results of experiments. And in the meantime something can be done to prepare the way for the larger schemes by the creation of semi-smokeless zones. Local authorities can follow the example set by Stretford, which has made the use of smokeless fuel a condition of tenancy, or the example set by the LCC, which has made the use of gas ignited coke fires a matter of policy and has launched some interesting experiments in whole house heating by means of convected warm air. Architects, of course, can help by attending carefully to such matters as the proper insulation of houses and the placing of chimneys so as to avoid heat wastage through external walls. (The reduction in heat requirements naturally results in a reduction of fuel used and of smoke emitted.) And the rest of us might well adopt Bernard Shaw's suggestion. should cut all those persons who have smoky chimneys," he said. "We should refuse their invitations to dinner, alleging as the reason: 'I have seen black smoke proceeding from your kitchen chimney." At least we can now feel confident that Shaw was right when he said that coal smoke, unlike original sin, is a thing we are not obliged to put up with.

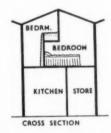


B. Grant

Plan Group

"The Builder" Competition

SIR,—I have read with interest your review of the Low Cost House designs submitted in *The Builder* Competition. While the design whose section (No. 6) you describe as "amusing" may have been extremely diverting to its author, may I suggest that it will prove to be slightly less mirth-provoking to the housewife who will have to make up the bunk at a height of some 6 ft. from the floor? Having built a bunk at approximately the same height, I can assure you



that it is almost impossible for anyone who has not served an apprenticeship as a Cunard steward to (a) turn the mattress, and (b) tuck in sheets and blankets.

In the inter-war years we heard much of miners keeping coal in the bath. I submit that a high level bunk is one certain way to ensure that the occupant will inevitably end up sleeping on heaps of old sacking.

Thelsea B CRANT

Low Cost Housing: Social Surveys

SIR,—In connection with *The Builder* low-cost housing competition, you comment that "... there appeared to be a wide divergence of opinion as to what the housewife (or her family) actually want. Social surveys should, by now, have settled this question."

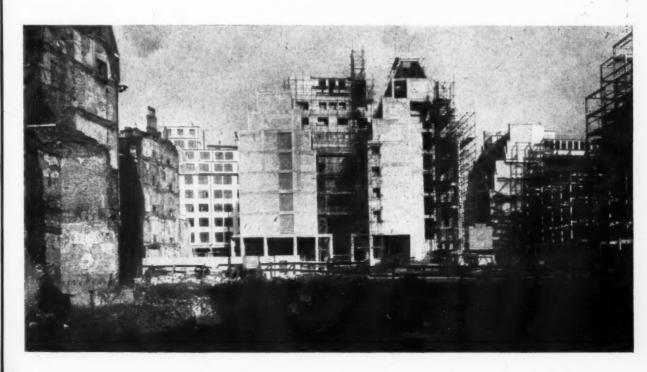
This statement shows a misunderstanding of the purpose of the social survey. The analysis of the housewife's answers to questionnaires may show what her preferences, her likes and dislikes are in a statistical form. Further research by the social scientist may reveal more clearly what the existing facilities are, and how they are used by the housewife and her family.

Such surveys alone, however, cannot estab-

THE RE-BUILDING OF THE CITY OF LONDON

On this and the following pages are illustrated some of the fourteen buildings now under construction in the City of London. A further thirty-three await licences. The illustration, right, is part of The Architectural Review's proposals, published in November, 1946, for the redevelopment of the St. Paul's area, and typifies the quality of townplanning which was expected to take place when rebuilding started. Below, the reality; extensions to Plantation House, in Great Tower Street; architects, A. W. Moore and Son, with, on the right, new offices owned by the City of London Real Property Co.; architects, Howard Souster and Partners.





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THE CITY OF LONDON: RE-INFECTING THE



Above, offices under construction in St. Swithin's Lane, designed by Gunton and Gunton. On the left is St. Stephen's Church. Below, a building erected under the Lessor Scheme, which will be completed this year, Atlantic House, on Holborn Viaduct; architects, T. P. Bennett and Son. Opposite page, top, new

buildings for the Bank of England under construction in Lothbury. The architect is Victor Heal. Bottom, a new building in course of construction in Bridewell Place, designed by Trehearne and Norman, Preston and Partners. These are only a few of the schemes which are shaping the New London.

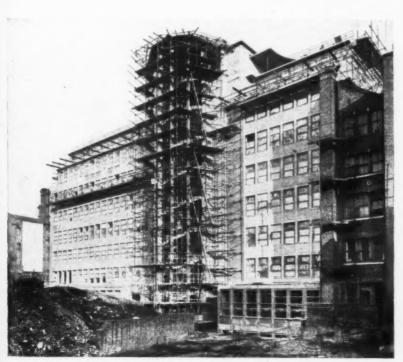


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lish what the needs are, as opposed to likes and dislikes; nor can they forecast how the family will make use of, and react to, any new environment.

It seems that the only way of assessing the designs submitted is for families to live in houses built to their plans. Even then, of course, a social survey as we know it (carried out a year or so later), could not be used as a forecast of requirements for subsequent planning.

PLAN Group. School of Architecture. Birmingham.

[While we agree with the PLAN Group that [While we agree with the PLAN Group that social surveys can show us only what the housewife thinks she wants, it is surely not the architect's duty to tell her that she needs something quite different. His interpretation of the housewife's real needs should bear some relationship to her wants. We certainly agree with the Group's last point. As we have stated before, in other contexts, the only real test of a design is for it to be built and lived in —ED1 be built and lived in.-ED.]

The EDITORS reserve the right to shorten letters from readers. Whenever possible however, they are published in full.



HOUSING

Progress in January

In January 13,150 permanent houses were completed in Great Britain, compared with 15,950 in December. This brought the total number of houses completed under the postwar programme to 991,814, made up of 834,668 permanent and 157,146 temporary houses. The housing summary containing these figures is published by HM Stationery Office (Cmd. 8177, 1d.).

TIMBER

BOT President Hopes to "Unfreeze" Softwood

The stockpiling of timber in Britain against a possible emergency was recommended by Harold Wilson, president of the BOT, when he addressed members of the Timber Trades Federation of the United Kingdom at their annual dinner in London last week.

Mr. Wilson said that the building up of timber stocks must be a first call on our imports. Our home forests were depleted and in an emergency it would be hard to provide shipping for timber imports.

Stocks of softwood, at present, were low, but it was hoped, after last week's announcement of the removal of price control, to unfreeze a little softwood bought on private account.

Norman A. Wright, president of the

Federation, asked for further freedom in the buying of wood. He appealed to the BOT to free the private import trade from the disabilities under which it was suffering at present.

BRITISH COUNCIL

Six-day Course on Architecture

One of the six-day Festival of Britain courses (organized by the British Council) to be held in London between June and September will deal with "Characteristic Styles of British Architecture." It will take place from deal with "Characteristic Styles of British Architecture." It will take place from June 24 to June 30. Other subjects covered will be industrial design (August 19-25), theatre, cinema, music, science, education, the government of Britain and the place of the Commonwealth in the modern world.

LCC

Second Sculpture Exhibition at Battersea

The LCC is arranging a second international exhibition of sculpture in Battersea Park. It will be opened on May 7 by HRH the Duchess of Kent. The exhibition will contain forty-four works by leading British and overseas sculptors of the last fifty years, each represented by one work chosen by a committee of sculptors and art experts. About half the works will come from private collections in Britain, nine from France, and the rest from Austria, Belgium, Canada, Denmark, Germany, Holland, Italy, Switzerland and the United States of America. There will be figures in bronze, including Meunier's Docker, Rodin's Orpheus and the new Standing Figure by Henry Moore; in stone, including Eric Gill's The LCC is arranging a second international Henry Moore; in stone, including Eric Gill's black hoptonwood *Deposition* and Wotruba's *Human Cathedral* in limestone, and also in glazed ceramic, in concrete, in iron and in welded steel.

DIARY

The Aims and Achievements of the Engineers' Guild. Robert Chalmers. At the Grand Hotel, Piccadilly, Manchester, 1. (Sponsor, the Engineers' Guild, 2, Victoria Street, London, S.W.1.) 6.30 p.m.

MAR. 15

The Architecture of Transport. Exhibition at the RIBA, 66, Portland Place, W.1, showing projects in this country and a selection of material from abroad. Weekdays 10 a.m. to 7 p.m. Saturdays 10 a.m. to 5 p.m. UNTIL MARCH 22

The Ideal Home Exhibition. At Olympia. (Sponsor, Daily Mail.) Daily 9.30 a.m. to 9.30 p.m. (Sundays and Good Friday excepted).

Survey and Development Plan for the Greenwich Centre. Meeting and exhibition of plan prepared by diploma students in the Department of Town Planning, University College, London University. At 13, Suffolk Street, S.W.1. (Sponsor, HC.) 5.30 p.m. MARCH 20

Open Forum: Architecture and the Architect from the Layman's Point of View. Mrs. Joan Robins. T. Payten Gunton. At Royal Society of Arts, John Adam Street, W.C.2. (Sponsor, IRA.) 6.30 p.m. APRIL 6

AND STANDS HOUSES THE





The stands in the Grand Hall at Olympia form a part of the Victorian theme designed by James Gardner and illustrated by a sketch in last week's JOURNAL. Above is Heal & Son's stand, showing a dining suite designed by Christopher Heal, a garden couch by Arthur Greenwood, terrace chair by A. J. Milne (as chosen for the FOB), curtains by Roger Nicholson (left), and Sylvia Priestley (centre). Part of the stand by Dunns of Bromley, seen below, shows a dining table and chairs by L. Ercolani, and a sideboard by Gordon Russell, which has a front of veneered rosewood cut to disclose a pattern of white birch behind. The plastic



sculpt Left design for S

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Desig house occasi house Glass below photo

IDEAL HOME EXHIBITION, OLYMPIA, LONDON



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disstic sulpture in the background is by Derek Ottley. Left is a revolving feature on the GEC stand designed by C. J. Lansdell. Top, right, is the stand for Story's of Kensington, with furniture by their Design Group. Above is a kitchen in the Coates house with a fitting which divides off an area for occasional meals. The living room, in the Berg house (right) contains furniture by Neil Morris of Glasgow. The Women's Institute House, seen below, is designed by Lionel Brett. The interior photograph shows the living-room-kitchen.







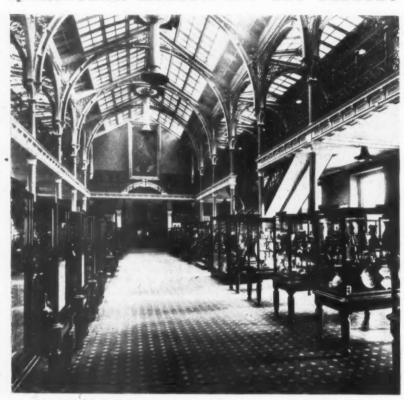
First floor plan







BIRMINGHAM MUSEUM AND ART GALLERY



Above is a view of the old industrial Hall of the Birmingham City Museum and Art Gallery, as it was before alterations were carried out. Below is the Hall as it is today. The original style was not considered suitable for the display of textiles and ceramics A false ceiling has been formed with lattice beams, spanning between the galleries, supporting laylights which are artificially lit from above. The show cases have been grouped into blocks, and cross-walls built mostly of timber and plasterboard screen off the central stairs from the body of the hall. Extra storage accommodation, which previously was limited, has been arranged. The architect was W. N. Hawkes, of Messrs. Harry Bloomer and Son. (See Astragal's note on page 350.)





This feature covers aspects of legislation, parliamentary news or statutory rules and regulations which are of special significance to the architectural profession.

ERNEST WATKINS The Architect and

Current Affairs

The recent Commons debate on the transfer of responsibilities from the MOH to the new MOLGP was disappointing. But there was very little party bickering and most of the speakers had genuine doubts to raise. Colonel Walter Elliott, who opened for the Conservatives, was worried in case the separation of responsibility for health from that for housing might affect the incidence of tuberculosis; housing and TB, he said, were closely connected. Mr. Turton, who is an agriculturalist, was worried about the continuing loss of good agricultural land. He estimated that the loss of such land, since 1927, had been as high as 1,750,000 acres. But the main point he made was that, under the new arrangement, the planning minister, as the minister responsible for housing, would have his own departmental claims on land to advance.

On that matter, one Conservative MP produced an apposite quotation from a speech made by Mr. Attlee in 1940. "It is against all good rules of organization," he had said. "that a man who is in charge of major strategy should also be in command of a particular unit." He was then referring to an added responsibility assumed by Mr. Churchill—not then Prime Minister. The truth of that principle holds good today.

Churchill—not then Prime Minister. Ine truth of that principle holds good today. It was a pity that Mr. Morrison treated the subject under debate as a matter of departmental tidiness. The change, he said, had come about as a by-product of a decision by the Prime Minister to alter the composition of his government. It was, presumably, advisable that Mr. Bevan should take over the MOL. It was, apparently, inadvisable to give his successor at the MOH the same Cabinet rank. And so this plan was produced from its pigeon-hole, and Dr. Dalton was given more to do and Mr. Marquand less. With regard to decisions over competing claims for the use of land, Mr. Morrison said that there were avenues in the machinery of government through which these things could be collectively considered and decided. The only possible comment on this statement is that, as yet, the avenues he referred to, while littered with upturned stones, are far from fully explored. There is, or should be, more to the proper utilization of land than administrative tidiness.

During the last few days we have seen

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the completion of yet another instalment in the story of Mr. Kirby and "Briar Patch." In June, 1946, as you may remember, Mr. In June, 1946, as you may remember, Mr. Kirby, a carpenter, decided to build his own house on his own land in Easthampstead, Berks. He did not obtain planning permission. And the Easthampstead RDC decided the building, "Briar Patch," should be pulled down. At one stage the Council got as far as demolishing part of the house, but the former Minister of Town and Country Planning stayed its hand.

Since then there has been a public inquiry.

Planning stayed its hand.

Since then there has been a public inquiry. Mr. Kirby was offered a Nissen hut, which he declined with thanks. And he then appealed under the old Planning Act and also under the new one. (The result of his last appeal is still pending.) He later appealed (with the assistance of public funds) to the courts of his county. And he subsequently sued the RDC its surveyor, the Berks County Council, the Ministry of Town and Country Planning, and Lord Silkin. The demolition notice was ultra vires, he said. His Lordship had not discharged his function under the Acts with the open-mindedness that the law required. The motives of ness that the law required. The motives of all these bodies had been wrong. And, in the meantime, Mr. Kirby continued to occupy "Briar Patch."

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The trial in the High Court was heard a week ago. Mr. Kirby obtained little satisfaction there. The judge found for all the defendants. He was satisfied, he said, that Mr. Kirby must have been aware that he had no right to put up the building until the plans had been approved. The demolition work had been carried out with care. But even after that judicial ruling, we are by no means at the end of the story. Mr. Kirby is considering making an appeal against the judge's decision.

Mr. Kirby has bought his four and a half years of occupation at a cost of some £750, plus his present liability for the costs of the lost action-perhaps another £2,000. are, of course, many buildings for which he would have had to pay even more, in rent

DRYROT

It has been pointed out to us that a para-graph which appeared in the dry rot article, Part II (AJ January 22, 1951) is misleading. This paragraph suggested that the surface application of wood preservatives was un-satisfactory and that immunity from dry rot could be achieved only by pressure im-pregnation. It should have been made clear in the article that the writer was referring only to conditions of persistent damp (such as in "industrial buildings with wet processes or in intermittently occupied premises") where this could not be avoided by sound constructional design. In these extreme conditions a brush application may be inadequate and there have been in the past cases of failure where superficiallytreated timber has been exposed to persistent damp. It is of course, well known that in normal conditions the surface application of preservatives provides satisfactory protection, if carried out thoroughly, particularly where dampness is only temporary (such as during the drying-out period of a new building or after a leak has been attended to) or in positions (usually external) where the treatment can be repeated at regular intervals. And, of course, for treating timber in situ, surface application is the only solution.

There are two other points we should like to amplify. The first concerns the decoration of timber which has been treated with proprietary oil-soluble preservatives. Only those preservatives which are similar in compesition, to greecete render timber incorpolate. position to creosote render timber incapable of being decorated satisfactorily. Other types present no such problem. The second point is that the principal types of preservative should be graded into three categories (and not two, as stated in the article), namely: 1, coal tar derivatives: 2, water soluble materials; 3, spirit or oil soluble materials.

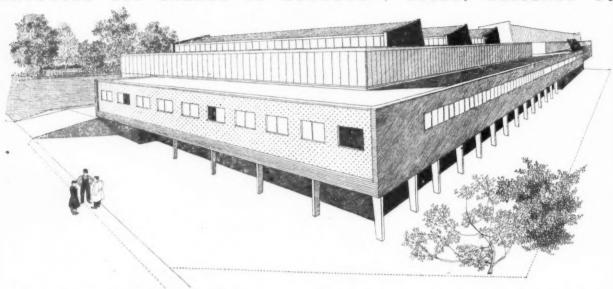
SPENCE NEW FURNITURE BVBASIL



Basil Spence was commissioned by the Scottish Furniture Manufacturers' Association to design the furniture which they have given to the Furniture Development Council for their council chamber in Adelphi Terrace, London. Above, the chamber. Ceiling; dark blue. End wall; dark red. Wallpaper; cream with silver stripe. The furniture is of natural mahogany. Below, the chairman's desk.

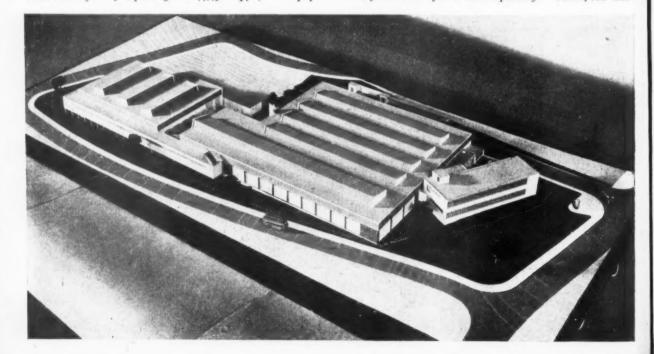


PROPOSED BUS GARAGE AT LOUGHTON, ESSEX, DESIGNED BY



The proposed bus garage at Loughton for the London Transport Executive is designed by Yorke, Rosenberg and Mardall, in collaboration with T. R. Bilbow, architect to the LTE. The garage is for 137 buses and includes facilities for major repair work as well as routine maintenance and normal parking. The site is restricted and irregular in shape with a fall of 15 ft. from south-west to north-east. Access is at one point only, owing to road improvements, and this has been an important factor in the planning. The building will almost entirely cover the site and exact calculation of areas has had to be made. The accommodation consists of three principal groups, an administrative wing (9,000 sq. ft.) including canteen and recreation room on two floors; a parking area (49,500 sq ft.) with equip-

ment for fuelling, cleaning and washing and inspection pits for routine repairs; a docking area (31,000 sq. ft.) for major repairs, including 10 inspection pits, ancillaries and stores. The construction will be as follows, administration wing; steel frame, with bays 37 ft. by 10 ft.; stanchions encased in concrete and joists concealed in suspended ceilings; reinforced-concrete roof slab with 1-in. cork insulation; RC floor slab; external wall panels of 11-in. cavity brickwork and partitions 4½-in. brick. Parking and docking areas: roof of welded steel trusses. channel purlins and steel decking; perimeter bands of vertical glazing 7 ft. high and portal monitor rooflights. The whole steel structure is independent of the surrounding brick wall and roof slabs and is free to move separately. Floors, RC slab



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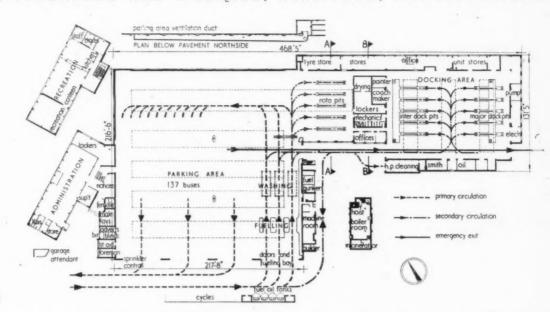
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YORKE, ROSENBERG AND MARDALL, ASSISTANT, J.S. P.VULLIAMY



on mass concrete with brick shuttering to form pits in parking area; 8-in. RC suspended slab on permanent asbestos shuttering spanning between sleeper walls in docking area; pits on mass concrete foundations. External finishes will be light yellow stocks bricks, flat oil paint on concrete, tiling with eggshell glaze on north elevation, tyrolean rendering on west elevation. Heating generally will be by radiators and unit heaters in the docking

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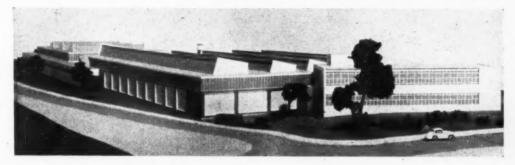
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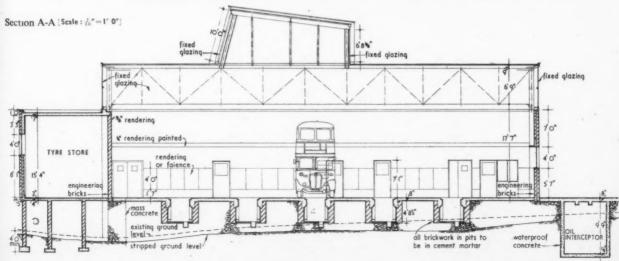
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es. cal ole all Ground Plan [Scale: 1' 0"]

area. In the parking area a duct running along the north side will extract exhaust fumes. Other services will include a vacuum cleaning plant, three washing machines, compressed air supply, steam and compressed oil for jacks and rams. The view shown in the sketch on page 334 is from the east; the view in the model on that page is from the west, on this page from the north and on page 336, from the east. The consulting engineers are

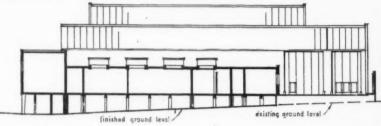




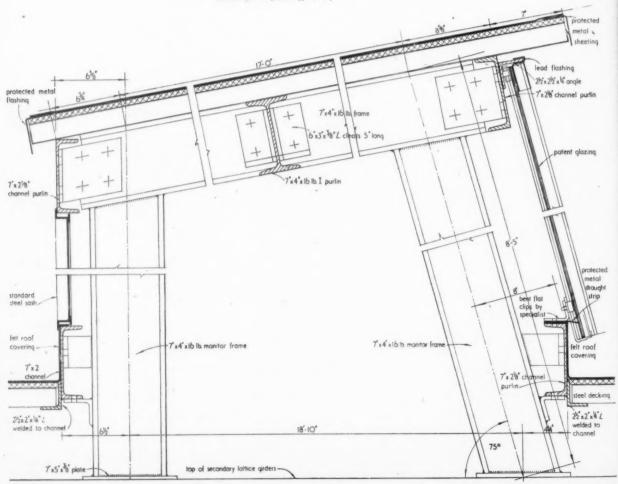
PROPOSED BUS GARAGE AT LOUGHTON, ESSEX



F. G. Clarke, C. R. Nicholls and O. M. Marcel. Electrical and heating consultants (to London Transport Executive), Oscar Faber and Partners; Quantity Surveyor, Cyril Sweet. The general contractors are Gee, Walker & Slater Ltd.



Section B-B [Scale: 12 = 1' 0"]



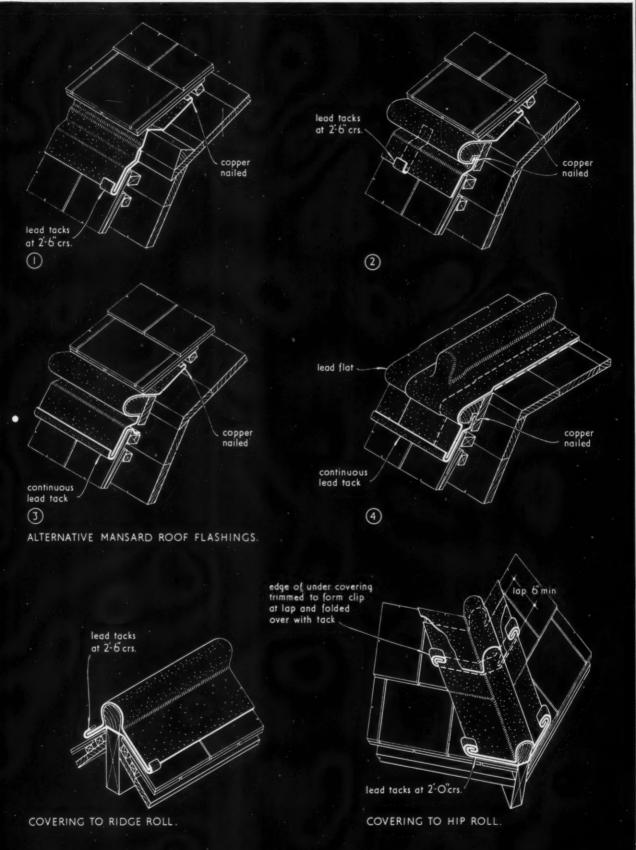
Section of roof glazing and portal monitor construction [Scale: 1\frac{1}{2}"=1' 0"]

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LEAD AND ALLOYS APPLICATIONS

The Architects' Journal Library of Information Sheets 301. Editor: Cotterell Butler, A.R.I.B.A.



10.G6 LEAD FLASHINGS TO MANSARD ROOFS AND COVERINGS TO HIP AND RIDGE ROLLS

This Sheet describes lead flashings to mansard roofs and coverings to hip and ridge rolls.

Mansard Roof Flashings

These are the flashings fitted where the roof changes pitch and are often the subject of ornamental detail. Four alternative methods of forming mansard roof flashings are shown on the face of this Sheet.

Method 1: The flashing consists of an apron about 12 in. wide dressed down over the top course of slates or tiles of the lower roof about 6 in. and carried up about 6 in. under the slates or tiles of the upper roof. The front edge of the apron is held down with lead tacks at 2 ft. 6 in. centres.

Method 2: Where a torus roll is provided at the line of intersection the method of fixing must be designed to prevent the lead "bagging" away from the under side of the roll. In the method shown separate pieces of lead are used for the apron and for the roll covering. The top edge of the apron and the lower edge of the roll covering are copper nailed before the roll is fitted. The other edge of the roll covering is copper nailed after it has been dressed over the roll.

Nailing of both edges of the roll covering, in this method of fixing, tends to restrict natural movement and it should only be used for narrow flashings.

Method 3: This is an alternative to method 2, the flashing being fixed in one piece with the front edge held down and supported by a continuous lead tack.

Method 4: Where the upper part of the mansard is a lead flat the ends of the bays of the flat can be taken over a torus roll and the free edge held with a continuous tack. The rolls of the flat are taken as close to the edge of the torus roll as possible in order that lapping of the apron should not be on a flat surface.

Wide flashings: Where the front apron is required to be wide, say 12 in. or more in depth, better support to prevent "bagging" is provided by intermediate fixings of soldered or leadburned dots (see Sheet 10.G21) at 2 ft. 6 in. centres.

Hip and Ridge Roll Coverings

The wood roll must be fitted to stand clear of the roof covering so that the lead will key under the bulge of the roll. The roll covering is made to give about 6 in. of overflashing to the tiles or slates on each side of the roll.

Ridge roll coverings: These are held in position with 2 in. lead tacks at 2 ft. 6 in. centres.

Hip roll coverings: Support to the lead must be provided by the fixings and this is obtained with tacks at 2 ft. centres and a clip left on the edge of the covering which is folded over with the end of the tack. The top edge of each piece of hip covering is close copper nailed.

Lapping

Laps should not be less than 4 in. for mansard flashings and ridge roll coverings. For hip coverings laps should be 6 in. minimum or greater according to the pitch of the roof. (See Sheet 10.G12.)

Weight

5 lb. per sq. ft. lead is suitable for all normal work, but it is usual to specify 7 lb. per sq. ft. lead for monumental buildings.

Further Information

The Lead Industries Development Council maintains a Technical Information Bureau which is available to answer questions and advise on technical problems dealing with this subject generally.

Compiled from information supplied by:

The Lead Industries Development Council.

Address: Eagle House, Jermyn Street, London, S.W.1.

Telephone: Whitehall 7264.

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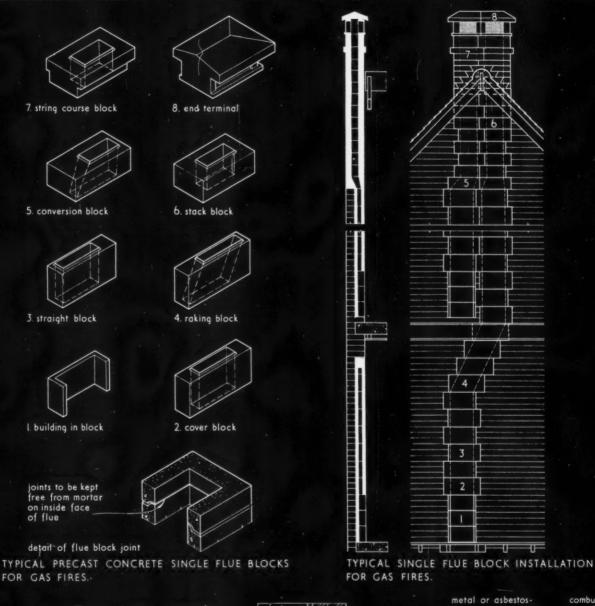
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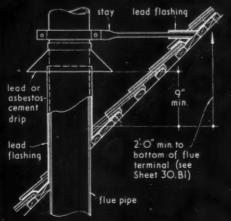
material

flue pipe

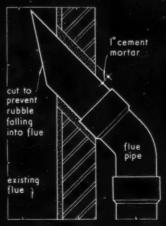
FLUES GAS

The Architects' Journal Library of Information Sheets 302. Editor: Cotterell Butler, A.R.I.B.A.









FLUE PIPE PASSING THRO' CEILING CONNECTION TO EXISTING FLUE.

cement sleeve

I" air space or insulating material

30.B2 CONSTRUCTION OF FLUES FOR GAS APPLIANCES

This Sheet is the second dealing with flues for gas appliances. It describes the materials and summarises the principles of construction. Sheet 30.B1 summarises the principles of design of flues for gas appliances.

Selection of Materials

Brick: Suitable for all types of appliance, but in the case of water heaters the chimneys should preferably be fitted during construction with acid-resisting tiles or linings or parged with acid-resisting cement.

Pre-cast concrete (blocks): Suitable for gas fires only. B.S. 1289 gives details of the types of flue blocks which can be bonded into walls or partitions.

Asbestos-cement pipes: Suitable for space heaters and for water heaters. May be used for internal or external work.

Glazed and unglazed earthenware pipes: Particularly suitable for flues in cold and exposed positions. Sheet metal: Suitable for internal flue work. May be made of:

(a) Stainless steel.

(b) Sheet aluminium, except where condensation is liable to be excessive, e.g., a water heater flue in a cold or exposed position.

(c) Sheet iron or steel, if protected by good quality vitreous enamel or galvanising after manufacture. (d) Sheet copper, if protected by good quality chro-

mium plating.

Vitreous-enamelled cast iron: This is suitable for internal work.

Built-in Flues Generally

Built-in flues may be constructed of any of the materials listed above.

When a pre-cast concrete block flue is built particular care should be taken to ensure that the joints on the inside face of the flue are free from mortar and that the correct type of block is used for raking. The terminal should be provided with two or more outlets on opposite sides, the area of each being not less than the area of the flue and each being fitted with a guard of non-corrodible material (such as asbestos-cement louvres or a stainless steel guard) to prevent the entry of foreign matter, birds, etc.

Existing Flues

If a standard 9 in. by 9 in. brick flue has been successfully used with solid fuel, it can be regarded as potentially satisfactory for gas. When a space heater is fitted it may be necessary to restrict the air entering the chimney to reduce draughts, and when a water heater is fitted provision for the introduction of additional excess air is desirable to prevent condensation. An existing flue should not normally be used for venting more than one appliance.

The flue should be swept before a gas appliance is connected to it, and the connection should be so made that the appliance outlet is not restricted by the flue wall and that loose material falling down the chimney does not fall into the flue connection.

When a gas fire is fitted to an existing grate, the flue register plate should be removed. The free flue area should be at least 30 sq. in. and the gas fire should be fitted in such a way that the total area of the inlets at the base of the flue is not less than 20 sq. in.

Additional Flues

These flues may be used in premises undergoing alteration or when additional equipment is being installed. They should be as unobtrusive as effectiveness and stability will allow.

The flue pipe should be securely fixed to the structure and should be protected from damage where it passes through a room or enclosed space external to the site of the appliance. The joints of-sections of flue pipe and/or fittings should be carefully sealed, sockets should face the terminal and the joints should be finished by chamfering and be made water tight. Heat-resisting cement is suitable for this purpose. Where flues pass through tiled or slated roofs, the junction of roof and flue should be made water tight by suitable flashings raised to a height of 9 in. above the highest point of the junction. (See detail on the face of this Sheet.)

Fire Precautions

1. Walls of brick or concrete flues should not be less than 1 in. thick.

2. Where a flue pipe passes through combustible material, the pipe should be surrounded by an asbestos or metal sleeve, the diameter of which must be sufficient to provide an annular space of not less than 1 in. between the flue pipe and the sleeve.

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3. If a flue pipe passes through a room or enclosed space external to the site of the appliance, any part of the flue pipe which might reach a temperature of 150 deg. F. should be protected to prevent contact with it by persons using the room.

British Standards for Gas Appliance Flues

- B.S. 835: 1948 Asbestos cement flue pipes and fittings—heavy
- quality.
 Asbestos cement flue pipes and fittings—light B.S. 567: 1948
- B.S. 766: 1938 Bafflers or draught diverters on gas appliances, including recommendations for flue terminals.
- 41:1946 Cast iron spigot and socket flue or smoke
- pipes.
 "Combustion testing" of domestic gas appli-B.S. 717:1936 ances.
- B.S. 476: 1932 Definitions for fire-resistance, incombusti-bility and non-inflammability of building materials and structures (including methods of test).
- B.S. 1289: 1945 Pre-cast concrete flue blocks for gas fires (of
- the domestic type) and ventilation.
 Salt-glazed ware pipes, including taper pipes bends and junctions. 65:1937 B.S.
- B.S. 715: 1936 Sheet metal cylindrical flue pipes, fittings and accessories for gas-fired appliances.

Further Information

More detailed information can be found in British Standard Code of Practice CP 331.104 (1947) Flues for gas

This Series of Sheets deals with the provision of service and installation pipes, meters, flues and all other considerations involving the installation of gas equipment concerning the architect.

Compiled from Information supplied by:

The Gas Council.

Address: Gas Industry House, 1, Grosvenor Place, London, S.W.1.

Telephone: Sloane 4554.

Telegrams: Gascil, Knights, London.

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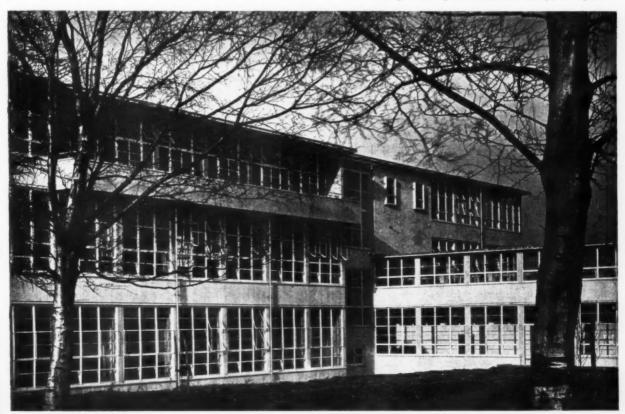
GIRLS' SECONDARY SCHOOL

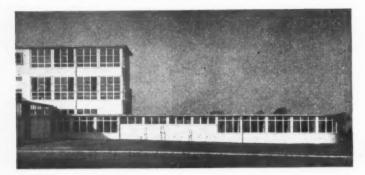
at CANTERBURY, KENT

designed by L. HUGH WILSON, CITY ARCHITECT

The Simon Langton Secondary School, named after a 13th century Archdeacon of Canterbury, is a three-form entry Grammar School for 510 girl pupils. Until 1942 the girls' and boys' schools shared a congested site in the centre of the city, but in June of that year a large proportion of the buildings was destroyed in an air raid and the girls were moved to the mental hospital from which patients had been vacated. After the war it was necessary to bring back the mental patients as soon as possible and so the MOE agreed to the erection of the new buildings. The school, which is maintained jointly by the City of Canterbury and the County of Kent, was opened early in February by the Archbishop of Canterbury.

Wing containing laboratories and library, looking north.



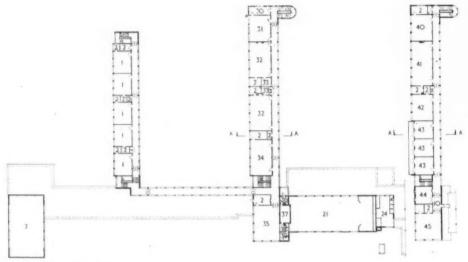


SITE.—Additional land was purchased adjoining the existing playing fields and having direct access from the Old Dover Road. This allows the playing fields to remain in their original position and provides a pleasant setting and approach for the buildings.

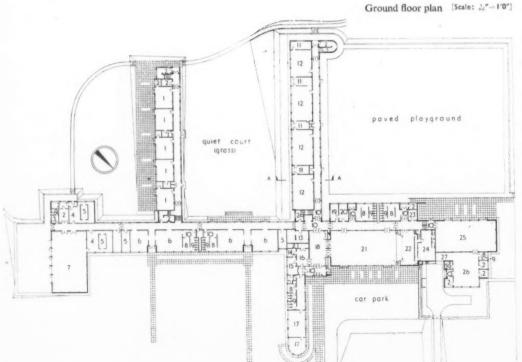
Staff wing, with windows to art and music rooms on first and second floors on the left.

GIRLS' SECONDARY SCHOOL

at CANTERBURY, KENT designed by L. HUGH WILSON, CITY ARCHITECT



First and second floor plans

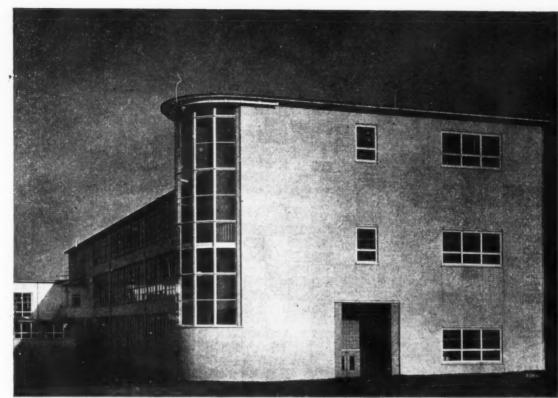


KEY

- i. Classroom.
- 3. P.T. Mistress.
- 4. Changing room.
- 5. Drying space.
- 6. Cloakroom.
- 7. Gymnasium.
- 8 Lavatory.
- 9. W.C.
- 10. Lobby.
- II. Laboratory preparation.
- 12. Store.
- 13. Book store.
- 14. Secretary.
- 15. Headmistress.
- 16. Staff hall.

P

- 17. Staff room.
- 18. Entrance hall.
- 19. Staff room.
- 20. Waiting room.
- 21. Assembly hall.
- 22. Stage.
- 23. Caretaker's workshop.
- 24. Dressing room.
- 25. Dining room.
- 26. Kitchen.
- 27. Wash-up.
- 29. Cook supervision office.
- 30. Lecture room preparation.
- 31. Lecture room.
- 32. Domestic science
- 33. Larder.
- 34. Needlecraft.
- 35. Art room.
- 37. Projection room.
- 38. Battery.
- 39. Plenum.
- 40. Geography room.
- 41. Library.
- 42. History room.
- 43. Division room.
- 44. Tank room.
- 45. Music.

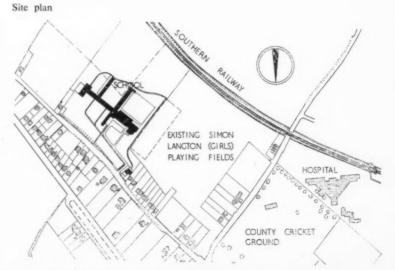


Above, north-west corner of the science wings with tall staircase window, centre left. Bottom left, main entrance doors. Bottom right, aerial view looking north-

PLAN.—A single-storey block parallel to the main road contains entrances, assembly hall, dining room and kitchen, staff rooms, gymnasium, cloakrooms and lavatories. At right angles to this block there is a two-storey wing containing classrooms and a three-storey wing for practical and special rooms. Both these wings have a south-east aspect and can be extended when required. The three division rooms on the second floor are for small senior classes in specialized subjects. In order to facilitate their use for special functions after school hours, the main entrance, assembly hall (with fully equipped stage and green rooms), staff rooms, dining room and lavatories have been planned to form an independent unit. All teaching spaces face on to quiet

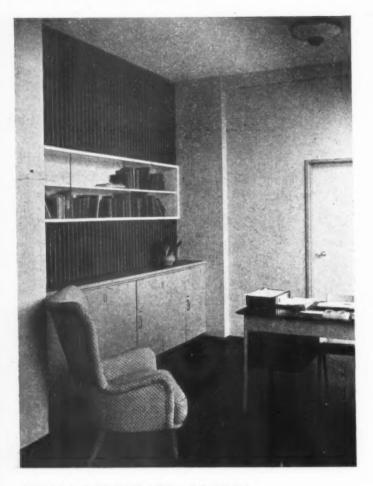
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GIRLS' SECONDARY SCHOOL

at CANTERBURY, KENT
designed by L. HUGH WILSON, CITY ARCHITECT

built-up roofing cellular concrete screed 4½"r concrete fibreboard g i dividing strip NEEDLECRAFT STORE CLEANER 6 CORRIDOR 12 draner forms floating farface floor and partition occustic insulating layer_ dpc. 5"r concrete Subrecast sta CORRIDOR 6 GEN SCIENCE LAB I bench top for farface brickwork 13-4 window s g dividing dry area 1 1.64 4'surface concrete screed composition flooring DUCT

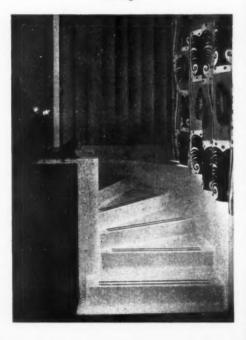
Section A-A [Scale: 1'9" = 1'0"]

areas. The gymnasium at the south-east end has two sets of changing rooms and showers, one having direct access to the playing fields. The playground accommodates three netball pitches.

CONSTRUCTION.—After alternative schemes had been prepared with steel and reinforced-concrete frames (and considered by the MOE) the latter were chosen for their large saving in steel. The structural frame consists of in situ reinforced-concrete columns, beams, floor slabs and roof slabs. Columns are spaced at 10-ft. centres except in the classroom block, where they are at 8 ft. 3 in. centres.

FINISHES.—Externally, the building is clad with reconstructed stone faced concrete slabs, 3½ in. thick, supported on toe lintels in the reinforced-concrete frame. This material was chosen because bricklayers' work had to be kept to a minimum. The inner skin of the external cavity walls and internal partitions are of sand lime bricks. Internally, walls are plastered in the assembly hall, entrance hall and staff rooms; tiled in cloakrooms, lavatories, kitchen and domestic science rooms; elsewhere, walls are fair faced brickwork. A part of the

Above, book-case and cupboards in headmistress's study. Below, steps leading to assembly hall stage.



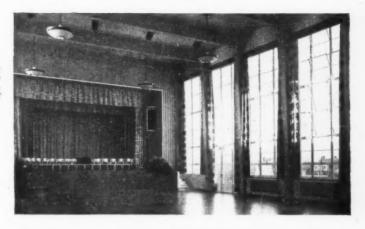
Right, assembly hall looking towards the stage. Centre, the library. Below right, main entrance hall. Below left, staff room.

end wall of the assembly hall is covered with absorbent acoustic tiles. Roofs are screeded with lightweight concrete and covered with built-up roofing with paved finish. Upper floors are screeded on an eel grass blanket laid on top of the structural slab to minimise structure-borne sound. Floors are wood block in teaching rooms and assembly hall, wood strip in the gymnasium, tiles in cloakrooms, lavatories and kitchen, terrazzo in entrance hall and on staircases, cork in staff rooms and library, composition blocks in corridors and plastic tiles in the dining room. Ceilings are of insulation board in teaching rooms and adjacent corridors and in the dining room, to improve acoustics, sprayed asbestos in the music room and entrance hall and plaster elsewhere. Practical rooms are equipped with built-in fittings specially designed by the architect.

SERVICES.—Heating is by radiators from a low-pressure hot water system with oil-fired boilers. A plenum system is provided in the assembly hall. The general contractors were Ringmer Building Works Ltd. For list of sub-contractors see page 350.

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SHOPS

at HORNSEA, EAST YORKSHIRE

designed by A. C. BLACKMORE & CO.

in association with W. GREGORY WILSON

Hornsea, a small coastal resort about halfway between Flamborough Head and Spurn Point, has been placed seventh among local authorities in England and Wales in a recent MOH return for the number of permanent post-war houses erected per head of the population. The new estate at Hornsea Burton, which covers 25 acres, is some distance from the town centre and it was thought necessary to provide a group of shops to serve the 274 houses and flats which will form the estate when completed. The site is undulating and from the higher parts there is a fine view of the sea and town.

View looking south-east.

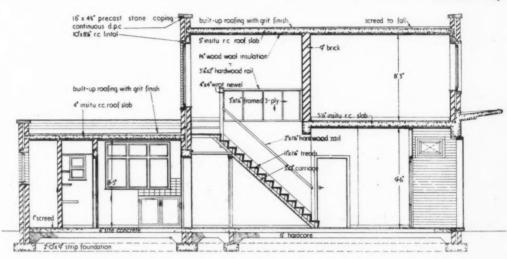


PLAN.—Each of the two blocks of shops has a service road at the rear so that goods can be delivered without customers being disturbed. Living accommodation, which includes three or four bedrooms on the first floor, can be let apart from the shops. The cantilevered canopies, which give some weather protection to shoppers, are extended beyond the main blocks to give cover to bicycle stands, which have been placed in recesses in yard walls behind the main building line. Each shop is provided with two display windows, large serving area, store room, walled-in yard and separate washing accommodation

CONSTRUCTION.—There are reinforced-concrete floors and roofs and walls are of 11-in. cavity brickwork.



The baker's shop.



Section A-A [Scale: \frac{1}{2}"=1'0"]

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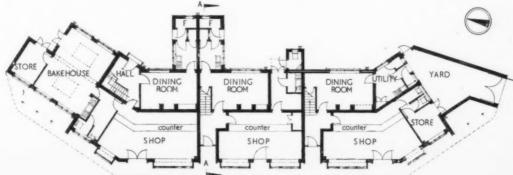
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First floor plan



Ground floor, plan [Scale: 2's"-1'0"]



General view of the two blocks of shops and approach road looking east.

SHOPS

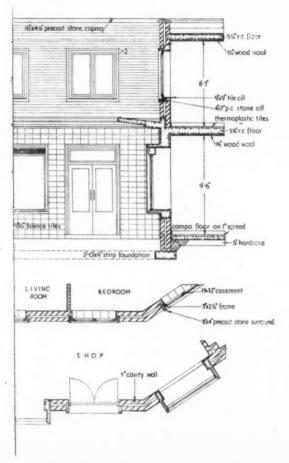
at HORNSEA. EAST YORKSHIRE designed by A. C. BLACKMORE & CO. in association with W. GREGORY WILSON

FINISHES.—The flat roofs are covered with a three-layer felt and bitumastic covering. The shop windows are of reinforced concrete as a box frame in front of the main walls. Each of the front walls of the shops on the underside of the canopies is faced with 9-in. by 6-in. faience tiles for cleanliness. The type of lettering is to be controlled and free-standing letters are to be fixed above the shop windows, lit from above from glass lenses in the canopies. There are no pipes on the front elevations.

The contract price was £16,927, including forecourt and dwarf walls.

The general contractors were Schofield Builders Ltd. For list of sub-contractors see page 350.

Section and part elevation [Scale: &"=1'0"]



Part plans of first and ground floors



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QUESTIONS AND ANSWERS CURRENT TECHNIQUE
THE INDUSTRY PRICES TECHNICAL ARTICLES

TECHNICAL SECTION



To what extent can the use of plastics alleviate the shortage of more traditional building materials? For certain purposes, the use of plastics has already become accepted; for many others, suitable materials now exist, which may, in time, influence greatly the form of contemporary architecture.

THE USE OF PLASTICS IN BUILDING

By J. B. Singer

The increased importance of "plastics" was appreciated by the MOW as long ago as 1941, when the Minister invited the British Plastics Federation to form a committee "to consider the application of plastics to . . . building construction . . . (and) to make . . . recommendations for further research." The report of this committee was published (by HMSO) in 1944, as No, 3 in the well-known MOW series, "Post War Building Studies."

DEFINITION

The term "plastics" does not define one particular material. It is used to describe many materials, whose composition and properties vary a great deal. And, of course, "plastics" are not plastic in the strict sense of the word; they are usually rigid and stable at normal temperatures. The term is accepted because all the materials to which it is applied "are plastic at some stage in their manufacture and can be shaped by the application of heat and pressure."

Plastics are often used in combination with other materials, such as wood, paper and fabrics, and the resulting materials have unique properties, even if the proportion of plastic in the mixture is very small.

plastic in the mixture is very small.

Plastics are extremely versatile materials but the architect will only achieve satisfactory results when using them if he understands both their merits and their limitations. While it is not necessary for the architect to be familiar with all the industrial processes involved in producing these materials, a certain amount of knowledge is essential if he is to exploit fully the properties of plastics. It is a dangerous policy to merely substitute plastics for traditional materials; new methods of construction, fixing and

finishing must be developed to be consistent with the nature of these new materials.

SHEET PLASTICS

Sheet plastics, laminated from special quality kraft paper, impregnated with phenolic resin, have become well-established materials. They are available in thicknesses from $\frac{1}{16}$ in. to $\frac{1}{2}$ in. and with a variety of finishes, including wood veneers. It should be noted that when veneers are used, the same type of veneer should be employed on both sides, in order to retain good stability. Partition units, consisting of 2 plastic sheets held apart by plastic ribs (usually at 2-in. centres), are also widely used, not only for partitions but for furniture, cupboards, counters, etc. Experiments have even been made in the use of such units for external walling; for example, the Clarendon prototype classrooms at Oxhey, Herts., (see AJ, Nov. 30, 1950). The edges of these panels can be finished with an inserted wood edge and, for increased thermal or sound insulation, they can be filled with glasswool or sand respectively.

sand respectively.

The cost of sheet plastics varies according to the thickness and the finish, being from 1s, 1½d. per sq. ft. for ½-in. sheeting. The cost of structural panels cannot be considered separately from the cost of the finished partition or wall, and to give prices per sq. ft. for the panels alone would be misleading.

CORRUGATED SHEETING

This is a recent development. Corrugated plastic sheeting resembles corrugated iron in design, but it is available in an attractive range of colours, including brown, pastel blue, pink, green, French grey, white and cream. The manufacturers claim that these colours are permanent.

cream. The manufacturers chain that these colours are permanent.

The sheeting has a high strength/weight ratio. Although it weighs only 13 oz. per sq. ft., it is strong enough for a man to walk upon. As a result of this, roofs covered with this sheeting can be of light construction, and purlins can be spaced at 3 ft. 9 in. centres. The sheets are 48½ in. wide, up to 8 ft. long and ½ in. thick. They can be used for walling, as well as roofing, and possess a high degree of fire resistance.

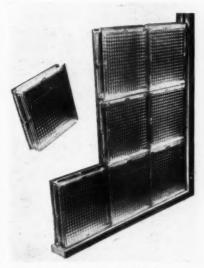
WALL COVERINGS

Sheet plastics, as described above, are becoming more popular due to the hygienic, durable, and easily-maintained wall surface they provide.

The demand for a cheaper wall covering may be satisfied by the flexible plastic sheetings, manufactured from the vinyl type of resins, polyester laminate, paper-backed plastics and cellulose fibre paper. The technique of hanging is, in most cases, similar to that of hanging ordinary wall paper, and the sheeting can be cleaned easily. The wide variety of decorative finishes now available should open up new fields for this type of wall covering.

WALL TILES

Plastic wall tiles are produced in a wide range of colours, and in standard sizes of $4\frac{1}{2}$ in. $\times 4\frac{1}{2}$ in. $\times 5$ in. and 6 in. $\times 6$ in., all 0.065 in. thick. Polystyrene plastics, from which the tiles are produced, have the dimensional 'stability which is necessary if the tiles are to be used under conditions of varying humidity. The lightness of these



Part of a wall panel of interlocking translucent plastic blocks.

tiles facilitates handling and fixing, and ordinary cements are usually employed. A solution of orange shellac, in de-natured etheryl alcohol, is used for fixing the tiles to porous walls. The cement is applied and the tiles set in position just as with ceramics. The impact and tensile strength of the tiles is adequate to prevent their breaking or cracking when dropped on a wood- or linoleum-covered floor. But the low melting point of polystyrene limits the use of these tiles to situations where the temperature is below 60°C. (140°F.) and precautions must be taken to prevent their being splashed with boiling water. Similarly, these tiles cannot be used in the proximity of hot air ducts, radiators, stoves, etc. They should be cleaned only with warm soapy water, since the abrasive action of cleaning powders may scratch the surface finish. The price of the tiles is approximately 20s. per vard delivered.

TRANSLUCENT PLASTICS

Translucent plastics were used extensively in aircraft during the war, because of their exceptional qualities of light transmission (which can be even better than that of glass),



Flushing cistern, matching seat and cover, in black plastic.

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CONCRETE LIMITED have recently added another exhibit to the London Building Centre, showing Bison Prestressed Flooring Units, and including photographs of Works tests and complete jobs.

This exhibit was designed by Konneth Deleliesh F. B. J. B. A. (cf.

This exhibit was designed by Kenneth Dalgliesh, F.R.I.B.A. (of Messrs. Dalgliesh & Pullen) who, it will be remembered, designed the weather vane for the Twickenham Rugby Football Ground. The exhibit is surmounted by a large gilded Bison, which was carved in the studios of Messrs. E. J. & A. T. Bradford Ltd., and which is contained in a red ring. The descriptive lettering was carried out by The Lettering Centre.



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low specific gravity, good weather resistance and dimensional stability. Their melting point, approximately 250°F., is lower than that of glass, and although these materials are combustible, they burn slowly and are

easily extinguished.

The provision of adequate daylight in large industrial buildings is always a problem, and it is normal practice to supplement side-lights with fixed roof glazing. Translucent plastics, which are manufactured in a wide variety of patterns to match standard corru-gated metal and asbestos cement roofing sheets, can be used for this purpose; thus diminating the need for special framed sup-ports, glazing bars and flashings, for these plastic sheets can be fixed with bolts and washers in the same manner as ordinary corrugated sheets. Single units can be fitted wherever required and, by using a chequerpoard arrangement, uniform light distribu-tion can be ensured using a smaller quantity of translucent material than would be re-quired if it were arranged in continuous

Corrugated translucent plastics can also be used for walling, screens and partitions; a two-storey wall panel, with timber framing has been designed for a school at Stevenage.

The decorative effect is pleasant.

Also used for translucent partitions are in-Also used for translucent partitions are in-genious interlocking blocks of polystyrene (see AJ July 6, 1950). Although smooth on the outside, for easy cleaning, the overs of these blocks are patterned on the inside face. This helps in diffusing light, in msue face. This neips in diffusing light, in addition to its decorative effect. The inter-locking ribs provide sufficient bonding strength to eliminate the need for cement. The blocks can be used only for internal partitions, since prolonged exposure to ultraviolet light may produce yellow stains. The blocks cost between 4s. 9d. and 5s. 6d. each.

INSULATION

Corrugated cellulose acetate film, a homogeneous plastic which weighs only 12 oz./cu. ft., has a conductivity of 0.32 BThU/in. thickness/sq. ft./hr. Foamed plastics have conductivity factors from 0.2 to 0.28.

Perforated plastic sheets are employed as sound absorbents, either as 1-in. hollow units filled with kapok, or in the form of 1-in. sheets with rockwool insulation behind, as used for the acoustic ceilings of the Royal Festival Hall.

Glass silk, bonded with synthetic resins into acoustical boards, is used by the GPO for

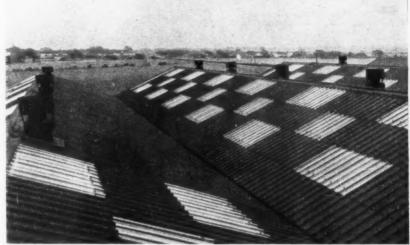
testing chambers.

PLUMBING AND SANITATION

Although there were a few experimental plumbing installations before the war, shortages of metals drew attention to the use of plastics for water supply pipes. They are, of course, highly resistant to corrosion and have the great advantage, due to low thermal conductivity combined with high elasticity, that there is no danger of "bursting" due to the freezing of water and subsequent expan-

The polythene plastics used for this purpose are less than 1/10th the weight of lead, and are so flexible that they can be laid in continuous curves without any special bends being used. They can be bent to a radius of 8 times the outside diameter, when cold, or 3 times the diameter if heated. They have however, a relatively low melting point (115°C.) and should not be used to convey liquids above a temperature of 65°C. (149°F.).

The tubes are manufactured in 50-ft. and 100-ft. coils, with internal diameters of ½ in., ½ in., and 1 in. and wall thicknesses of ½ in. and ½ in. The ¼ in. range is adequate for plumbing; the ¼ in. range being designed for industrial uses. Cost is fairly low for industrial uses. Cost is fairly low—from 1s. 4d. per ft. run for ½ in. tubing. Cutting and jointing is rapid. The pipes can be cut with a knife or with pipe cutters.



Corrugated translucent plastic sheets arranged chequer-board pattern for top lighting.

Three alternative methods of jointing are employed: butt "welding," screwing and the use of standard metal fittings, and standard compression couplings. To butt "weld," the to an angle of 60°, heated until they soften, and then brought together quickly with a slight twisting motion and lightly pressed.

As with metal pipes, the most satisfactory method of fixing horizontal runs of plastic pipes is to provide continuous support. Where this is not possible, standard devices, The flexibility of the tubing necessitates more frequent spacing of supports—12 in. to 14 in. centres for horizontal, and 24 in. This piping is for vertical, runs. available in black or white, but the white type is affected by ultra-violet rays; hence,

only the black type can be used externally.

In addition to tank floats, showerheads, soap dishes, lavatory seats, etc., plastic flushing tanks are now on the market. The one illustrated on page 345 is available in three sizes—2, 2½, and 3 gallon capacity.

More important is the substitution of plastics for copper and brass fittings, such as tank floats, flush valves, and ball-cock mechanisms. On the national scale, the saving in copper could be considerable.

FLOORING

A number of plastic floor coverings are now being manufactured, including tiles and sheetings. "Thermo-plastic" tiles have become one of the most popular floorings used today, particularly for housing. They are usually composed of asbestos fibres, mineral filters and thermo-plastic highers. They are fillers and thermo-plastic binders. They are available in 2 thicknesses— $\frac{1}{8}$ in. and $\frac{3}{16}$ in. and a wide range of colours. The colour determines the price, but these tiles are very economical. They should always be laid by specialists. Only two precautions should be observed; firstly, heavy point loads should be "spread" to avoid indenting the tiles and. secondly, the tiles should not be used where there is floor panel heating, as the edges of the tiles may tend to curl up.

Polyvinyl tiles are produced in a standard size of 9 in. \times 9 in. \times $\frac{1}{2}$ in. They possess good resistance to abrasion, and remain unaffected by oil, fats and most common acids. They can be laid directly on to a screeded floor. When laid on a boarded floor, a layer of felt should be inserted in order to eliminate any possible unevenness of the finished surface. Various plain and mottled colours can be obtained and the price is less than

that of rubber tiles.

Plastic sheet floorings are produced in rolls
12 yds. long, 3 ft. wide, and $\frac{3}{32}$ in. thick.

Prior to laying, they must be re-rolled inside

Plastic strips can be used to replace the brass strips normally used to separate sections of terrazzo or other composition floorings and to allow for dimensional movement. As plastic strips are coloured, colours can be chosen to match, or to contrast with, the colour of the flooring.

MISCELLANEOUS APPLICATIONS

There are many other uses of plastics in connection with furniture and fittings, apart from the use of sheet plastics for table- and counter-tops mentioned above. For example, plastic materials are used in the manufacture of chairs, refrigerator parts, Venetian blinds and curtain rails. Plastic door knobs and handles are stronger than those made of wood. They are available in a wide range of colours and shapes, and the colours are permanent.

It has long been recognized that plastics are eminently suitable for electric lighting fittings, for they are lighter and less fragile than glass or porcelain, and they require little maintenance. The dielectric properties of plastics, which were discovered in the early days of the industry, are now exploited by the use of plastics for cable insulation, conduit, ceiling- and wall-plates, distribution boxes, fuse boxes, plugs, switches, lamp-

holders, etc.

The use of synthetic resins for applied finishes has resulted in new types of paints, ranging from primers, undercoatings and water paints to flat oil and hard gloss finishes, which are quick-drying and very

durable.

This short survey of the use of plastics would be incomplete if synthetic resin adhesives were not mentioned. Originally, casein glues were used for bonding together the plies of plywood and other laminated wood. But this restricted the use of plywood to situations where the moisture content of the wood did not rise above 20 per cent. and, of course, imposed limitations on the use of laminated wood externally. The use of synthetic resin adhesives, mainly phenol and resorcinol formaldehyde, which are very durable, impervious and highly-resistant to decay, has made possible new progress in the application of plywood and laminated wood generally.

Synthetic resins are also used in the manufacture of chipboards, and "densified" timber. This latter has greater dimensional stability and surface hardness than ordinary timber and, in effect, gives to softwood the properties of hardwood.

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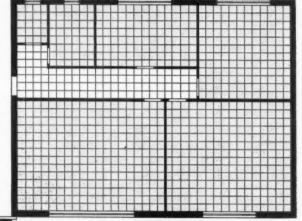
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INFORMATION CENTRE

2.114 planning: general ROAD SAFETY

Road Safety and Road Research. Glanville. (Jo Jan. 12, 1951.) (Journal, Royal Society of Arts.

Three papers by Director of Road Research. Research methods on road statistics, vehicle safety and road safety. General interest with third paper dealing with road layout and traffic flow.

8.22 surveying and specification SITE COSTING

Introduction to Site Costing for Builders. MOW Advisory Leaflet No. 13. (HMSO, 1950. 2d.)

First of MOW series of leaflets entitled " Modern Site Organization."

This series of leaflets is being published as part of the MOW's action on the recommendations of the Working Party on Building and the Anglo-American Productivity Team. As mentioned in the title they are aimed at the builder, but it is important for the architect to know how the builder tackles (or should tackle) these problems.

This is a good leaflet, but may be above the head of the small builder who is, after all, in most need of guidance.

8.23 surveying and specification

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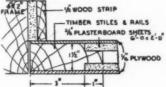
PROGRAMMING AND PROGRESSING

Introduction to Programming and Progressing for Builders. MOW Advisory Leaflet No. 14. (HMSO, 1950, 2d.)

Second of MOW series of leaflets entitled "Modern Site Organization."

Describes the basic methods for the small builder. Although, in these difficult times, it is becoming increasingly difficult to keep to a pre-determined schedule, the use of pro-





New type of fire-resisting door-inexpensive, but giving at least 1-hour of fire resistance. See 19 113.

gress charts is, if anything, more important than ever. Architects would do well to encourage their builders to study these leaflets.

12.48 materials: metal ALUMINIUM

The Use of Aluminium Alloys in Structural Engineering. (Aluminium Development Association. 1950. 2s. 6d.)

Types of structural alloys. Properties. Notes on design. Durability. Fabrication methods. Illustrations of engineering and building examples.

This 43-page brochure, which is well produced and contains some excellent photo-graphs, gives a good deal of useful general information about aluminium, which might well be helpful to architects as well as to structural engineers. After a general introductory section, illustrated with examples of bridges, buildings, and engineering applica-tions, it describes the various types of structural alloys and gives the standard notation symbols for these. The mechanical and other properties are then well documented with useful tabulated data. There are also brief notes on design, special structural sec-tions, durability and fabrication methods. Architects will find these latter sections useful.

19,113 construction : details FIRE-RESISTING DOORS

Investigations on Building Fires. Part IV. Fire Resistance of Timber Doors. National Building Studies Tech. Paper No. 6. (HMSO, 1951. 1s.)

Test results show hardwood not superior to softwood. Simple and cheap door giving adequate fire resistance equal to solid type previously considered necessary.

This is a report of a valuable investigation on the fire resistance of doors. The most

important conclusions appear to be that: softwood is not appreciably inferior to hardwood; a cheap alternative to solid doors can be perfectly satisfactory; and the detail of

the door rebate is important.

The cheap alternative design is for a framed door incorporated in which are two 1-in. sheets of plasterboard or asbestos wood. The door may be faced with hardboard or plywood if desired. The door stop should project 1 in. and consists of a 1-in. asbestos wood strip, with a 1-in. wood stop outside.

19.114 construction: details WALLS & PARTITIONS

Walls and Partitions. (Blocks and Slabs.) British Standard Draft Code of Practice 122 and 5 sub-codes. (British Standards Institution, 1950, 9s.)

General design considerations. Details of clay and concrete blocks, glass blocks, woodwool, gypsum blocks and plasterboard and plaster solid construction.

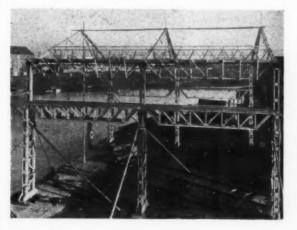
This code includes information on various materials, including mortars, reinforcement, air bricks, etc. General design requirements are discussed and fundamental characteristics are given. The sub-codes amplify and supplement the general recommendations given in the main code. Each sub-code deals fully with various aspects of a particular form of construction, giving recommended sizes and weights of blocks, describing other specific properties and suggesting methods of construction.

At the end of the Code, a number of illustrations show methods of edge isolation, reinforcement over openings, treatment of permanent supports and various constructional details for the use of hollow glass blocks, wood-wool building slabs, anhydrite blocks and "plasterboard-and-plaster."

ENQUIRY FORM

Readers requiring up-to-date information on building products and services may complete and post this form to The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1.

I am interested in the following advertisements appearing in this issue of "The Architects' Journal." (BLOCK LETTERS, and list in alphabetical order of manufacturers names please).



Trial erection of allaluminium building designed for service in the Persian Gulf. The complete structure (3 bays) is 300 ft. long and 150 ft. wide. See 12.48. (Photo by permission of Head Wrightson & Co. Ltd.)

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26.84 services and equipment: miscellaneous ELECTRIC CABLES

A Comparison of the Flame-Retardant Properties of Plastic-Insulated and Rubber-Insulated Electric Cable. DSIR and Fire Offices' Committee Joint Fire Research Organization. (The British Plastics Federation. Publication No. 33. 2s. 6d.)

Fire Research Station Report on physical and electrical tests on electric cables.

In view of the increasing use of plasticinsulated cables, and the doubts which have been cast on their fire-resistant properties, this Report is particularly interesting.

Cables were tested by heating them with a Bunsen flame, and by means of a heavy electrical overload. It was discovered that the fire-retardant qualities of the plastic insulation were superior to those of rubber, and that, whereas all the plastic-insulated cables reached the standard defined by the American Universities' Laboratories, Inc., none of the rubber-insulated ones did.

The apparatus used for the tests is described and illustrated, and there are illustrations of the cables as they appeared after having been tested.

26,85 services and equipment: miscellaneous DESIGNOF SANITARY INSTALLATIONS

Sanitary Services—Their Effect on the Planning and Design of Buildings. F. L. Barrow. (RIBA Journal, Dec., 1950.)

Architectural Science Board paper discussing design of sanitary installations and points of divergence between sanitary engineer's and architect's points of view.

The following points were discussed:

1. Internal soil and waste stacks.

Against the advantage of improved appearance, the author weighs these disadvantages: greater cost, risk of leakage, planning difficulties in two-storey houses. American practice was based partly on frost risk, less serious here. He recommends internal stacks for large multi-storey buildings, but not for low-cost two-storey housing. Warning pipes often objected to on elevations, but are necessary to prevent waste.

2. Concealment of pipes generally.

Arguments for: better appearance, easier cleaning, possible noise reduction; against: cost, risk of infestation of casings by vermin, delay in detecting defects. American practice of concealment helped by simpler piping layouts and stud construction. Recommendation: concealment where possible but, in low-cost housing, in cupboards rather than behind panels.

3. Taps supplied direct from mains.

Arguments for: simpler layout of piping, no risk of contamination in cisterns; against: limited supplies make it impossible in many districts, risk of explosion of hot water tanks, more noise from fittings fed at higher pressure, possibility of contamination due to back-siphonage.

4. "One-pipe" plumbing.

Arguments for: cleaner disposal, less pipework, more compact layout, cheaper underground drainage; against: provision of antisphon pipes, considered by the author to be essential in small systems, may cancel saving on pipework; in larger systems, grouped vertically, saving would remain. The use of the single stack system and resealing traps is deprecated.

5. Underwater inlets to fixtures.

These cannot always be avoided and may reduce steaming, but introduce a risk of back-siphonage.

6. Flushing valves in place of flushing tanks.

Arguments for: neat appearance, ready for immediate re-use, possibly more reliable in operation and effect; against: possibility of undetected waste due to defective valve, risk of back-siphonage, large size supply pipe needed. In any case, water undertakings do not usually permit their use.

7. All-in prefabrication.

The use of complete prefabricated plumbing units may compare unfavourably with normal methods, due to handling costs of a bulky unit, and may restrict planning. The use of prefabricated parts of a system, of easily handled size, is to be recommended.

8. Plumbing layout.

Difficulties arise when architects show fixtures on plan, without having given sufficient thought to the pipe runs. Points to be borne in mind are:

Placing baths so that the taps are adjacent to the outside wall makes access difficult. Provision must also be made for access to the backnuts of pillar taps to sinks. Pipes to sinks, fastened to outside walls, may get frozen. Linen cupboards, intended to contain tanks, cisterns and pipework, may be too small; so may pipe ducts. The roof space is not a good place for cold water cisterns, but when unavoidable, adequate space and sufficient protection are essential. Ventilators in w.c's may increase frost risk if badly placed. Insufficient thought in planning may lead to wasteful underground drainage.

The paper concluded with some information on pipe sizing for water supplies.

Comments.

Planning problems for two-storey houses with internal soil and waste stacks are far from insuperable. Frost damage to external stacks in exposed positions is by no means unknown, even in this country; higher standards of wall insulation may increase this risk.

It is doubtful whether materials used for external stacks are of lower quality than those used for internal stacks. The standard of workmanship of plumbers in the country is, usually, lower than that of those in towns. The importance of giving them room in which to do their work properly is correctly emphasized. The practice of putting pipework in cupboards, rather than behind panels, is recommended.

Except on the grounds of expense of installation, the practice, in this country, of feeding fittings from a storage tank is desirable. Even considering the expense, the more elaborate expansion and relief arrangements necessary on the hot water system, and the larger service pipe needed, may well offset any saving in cost. The added safety is considerable. The placing of storage cisterns in the roof is not an objectionable practice in a well-insulated house, provided that cisterns and pipework are included in the insulated area. It is not usually difficult, or costly, to arrange this.

Announcements

Miss M. M. Tanner, architect, will be pleased to receive trade catalogues at 85, York Road, Ilford, Essex.

Mr. Denis Harper, B.ARCH., PH.D., F.R.I.B.A., A.M.T.P.I., A.I.L.A., and Mr. J. P. Thompson, A.M.I.C.E., A.F.R.A.E.S., A.M.I.STRUCT.E., have become associates in the firm of Norman and Dawbarn, F.R.I.B.A., 5, Gower Street, W.C.1.

Mr. E. M. Norman, L.R.I.B.A., has been appointed staff architect to Messrs. Hardy's Kimberley Brewery Ltd., and Messrs. Hansons Ltd., Kimberley Brewery, near Nottingham, and will be pleased to receive information sheets, trade literature and catalogues.

Mr. Richard Henniker, F.R.I.B.A., who has been practising temporarily at 14A, Berkeley Mews, Seymour Street, Portman Square, W.I., has now taken permanent premises at 14, Berkeley Mews. The telephone number remains the same: Welbeck 0405. Mr. Henniker will be pleased to receive trade catalogues.

The Leeds branch of Thorn Electrical Industries Ltd. is now 35, Aire Street, Leeds 1 (Tel.: 29310).

In consequence of increased production costs, mainly raw materials and carriage, the MOW has authorized an increase of 14d. per square yard in the maximum prices of Gypsum plasterboard.

H.R.H. the Duchess of Kent visited the Greenwich Metal Works of G. A. Harvey & Co. (London) Ltd. recently. She was received by the chairman, Mr. Sydney Harvey, the managing director, Mr. H. T. Eatwell, and Mr. G. C. Harvey, director.

Mr. L. H. Cooper has been appointed chairman of the Mond Nickel Company Ltd. The following appointments have also been made: —Mr. L. K. Brindley, managing director; Mr. I. A. Bailey, Dr. L. B. Pfeil and Dr. A. G. Ramsay, directors. Mr. G. Archer and Mr. A. Parker Hague continue as directors.

Messrs. British National Electrics Ltd. (domestic appliances section of Johnson & Phillips Ltd.) announce that owing to the rise in cost of labour and materials they have been forced to increase the list price of the following domestic appliances by 10 per cent.:—BNE Charlton pressure, non-pressure and cistern type storage water heaters; models F.43, F.101 and F.102 BNE electric fires; BNE tubular heaters, panel heaters and convectors.

The Architecture Club recently held a supper at Chez Auguste, Soho, followed by a debate on the proposition that "the street is still the most important element in civic architecture." Viscount Esher presided and the debate was opened by Dr. Thomas Sharp, M.A., D.LITT., M.T.P.I., L.R.I.B.A., F.I.L.A. and Mr. Peter Shepheard, B.ARCH., A.R.I.B.A., A.M.T.P.I., A.I.L.A.

Messrs. Concrete Ltd., reinforced concrete engineers and contractors, 16, Northumberland Avenue, W.C.2, announce that a section of a Bison prestressed floor slab and a scale model of a Bison prestressed floor have been accepted for display in the Festival of Britain Exhibition of Industrial Power. Bison floors and roofs were used in the Dome of Discoverý, pavilions, etc., of the Festival of Britain Exhibition Buildings and are being fixed on the pedestrian bridge, Charing Cross.

Mr. H. O. Samson has retired from the firm of Samson, Colthurst & Steer. Mr. Robin Shirley-Smith, B.ARCH., A.R.I.B.A., A.M.T.P.I., has joined the firm which will now practise under the name of Steer & Shirley-Smith, A/A.R.I.B.A., A.M.T.P.I., Chartered Architects, Surveyors and Town Planning Consultants. The address is 8, King Square, Bridgwater, and 1, Hammet Street, Taunton.

Messrs. Worthington & Protheroe George, A.R.I.B.A./A.I.A.S., architects and surveyors, will be pleased to receive trade catalogues at their new address, 14, Albion Place, Maidstone.

Mr. F. Evan Jones, A.R.I.B.A., has moved his London office to 24, Buckingham Street, Strand, W.C.2.

Mr. Rolf Hellberg, F.R.I.B.A., of 13, Queen Victoria Road, Coventry has taken into partnership Mr. Maurice H. Harris, A.R.I.B.A. The firm will continue to practise at its present address (Tel: Coventry 63179) under the joint names of the two principals.

Applications are now being considered for the next Diploma Course at the School of Planning and Research for Regional Regional Development (sessions 1951/52/53). All communications should be addressed to the Secretary, School of Planning, 35, Gordon Square, W.C.1. (Tel: EUSton 2158/9).

Mr. J. G. Johnson has been appointed manager of the Manchester office (Palatine House, 76, Victoria Street, Manchester, 3) of the Brightside Foundry & Engineering Co. Ltd. (Heating & Air Treatment Division).

Mr. C. B. Brown, B.A.I., M.I.C.E., STRUCT.E., consulting engineer of 16, Gloucester Place, W.1, has been joined in partner-ship by Dr. T. P. O'Sullivan, PH.D., B.SC. (LOND.), A.M.LC.E. The practice will be known as Brown O'Sullivan & Partners. WELbeck 5916.)

Enquiry Forms

In view of the very large numbers of enquiry forms received it will materially assist, and speed up replies to readers' enquiries, if they will kindly refer to advertisers by name first and then by product.

Correction

We regret that in the dry rot article, Part III (AJ Feb. 22, 1951) the term "rawl plug" was used to describe fixing plugs. This term should not have been used, since it is derived from "Rawlplugs"—the registered trade name of The Rawlplug Co. Ltd., of Cromwell Road, London, S.W.7.

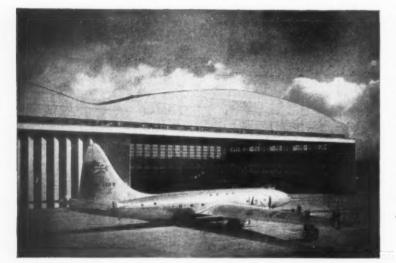
Buildings Illustrated

Simon Langton Secondary Grammar School, Canterbury. (Pages 337-341.) Architects: Canterbury. (Pages 337-341.) Architects.
L Hugh Wilson, A.R.I.B.A., City Architect;
C. W. Gummer, A.R.I.B.A., Deputy City Architect: D. Chamberlaine, A.R.I.B.A., Assistant Architect. Quantity Surveyors: Widnell & Trollope. General Contractor: Ringmer Building Works Ltd. Sub-contractors: Site Building Works Ltd. Sub-contractors: Site works, J. W. Ellingham Ltd.; mechanical services, G. N. Haden & Sons Ltd.; electrical services, Haden Electrical Ltd.; reinforced concrete, F. Bradford & Co. Ltd.; reconstructed stone, Empire Stone Co. Ltd.: roofing, Frazzi Ltd.; cellular concrete, Celcon Ltd.; flush doors, John Sadd & Sons Ltd.; metal windows and doors, Henry Hope & Sons Ltd.; plastering, H. S. Keen; plumbing. K. Hills: sanitary ware, Dent & Hellyer Ltd.; wall and floor tiling, Carter & Co. Ltd.; joinery fittings and blinds, low voltage Ltd.; joinery fittings and blinds, low voltage equipment, Sotos Ltd.; gymnasium fittings, Niels Larsen & Co. Ltd.; corridor flooring. The Granwood Flooring Co.; wood flooring, Horsley Smith & Co. Ltd.; cork flooring, Cork Insulation and Asbestos Co. Ltd.; accotile flooring, Neuchatel Asphalte Co. Ltd.; terrazzo work, Fenning & Co. Ltd.; valdocrete flooring, Val de Travers Asphalte Paving Co. Ltd.; ironmongery and cloakroom fittings, Comyn Ching & Co. (London) Ltd.; bronze handrails, Gardener Sons & Co. Ltd.; C.I. stairs and rooflights, Haywards Ltd.; proscenium, Clark & Fenn Ltd.; acoustic tiling, Newalls Insulation Co. Ltd.; roller tic tiling, Newalls Insulation Co. Ltd.; roller

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Shops at Hornsea, E. Yorkshire. (Pages 342-344.) Architects: A. C. Blackmore & Co., in association with W. Gregory Wilson, A.R.I.B.A. General Contractors: Schofield Builders Ltd. Sub-contractors: Canopy, floors and roof reinforcement, Twisteel Reinforcement Ltd.; faience tiles on elevation, British Clay Products; anodized aluminium shop window frames, doors and blind boxes, Shop window frames, doors and bind obxes. Chapman & Dick Ltd.; cast stone, Sutton Cast Stone Co.; tile floors, Marley Tile Co. Ltd.; roof and canopy, Northern Asphalt & Roofing Works Co. Ltd.; roof lights, Glascrete; water heating, Ascot Gas Water Crete; water Heaters Ltd.

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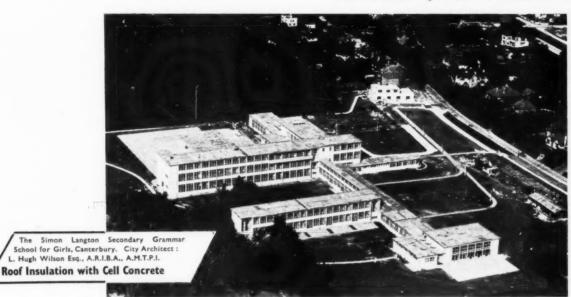
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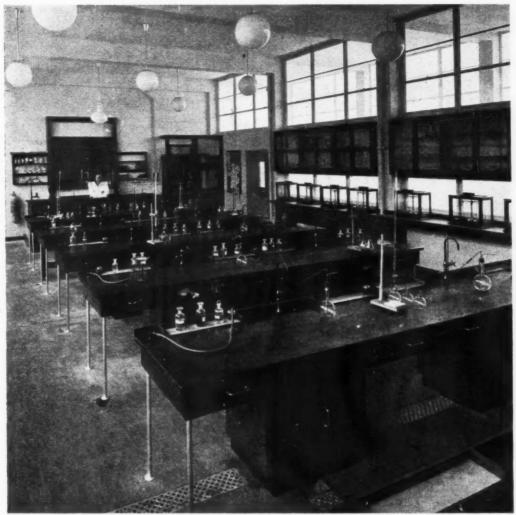
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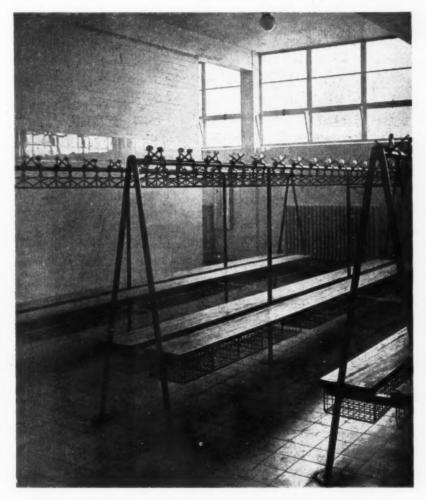
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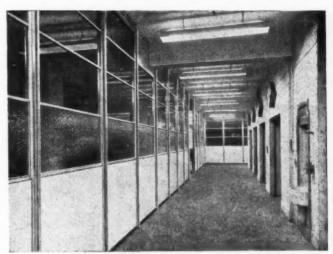
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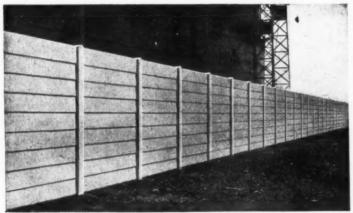
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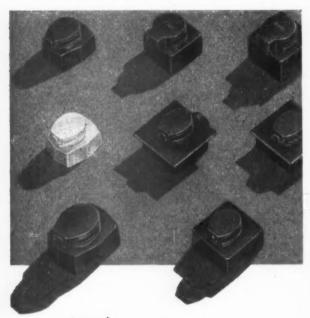
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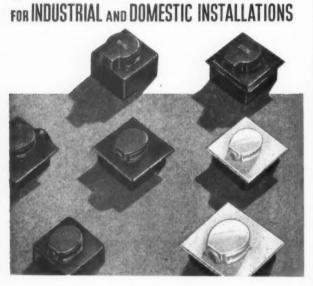
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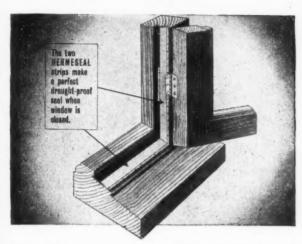
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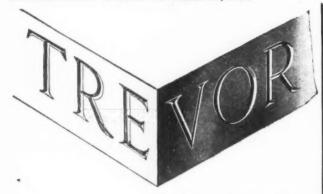


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If you have not got complete details of the full Chubb range, we will gladly send further particulars on hearing from you. Write or telephone: Chubb & Son's Lock and Safe Co. Ltd., 40-42 Oxford Street, London, W.I. Telephone MUSeum 5822.

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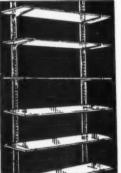


Hall's are renowned for their timber buildings not only as manufacturers but as prime designers and pioneers. Your needs receive the personal attention of those responsible for the high Hall standard and any building purchased is backed by the reputation, skill, and integrity of Halls of Paddock Wood. Building for Industry, Education, Sport, Municipal or Constructional needs. Site offices and Contractors' Huts also supplied.

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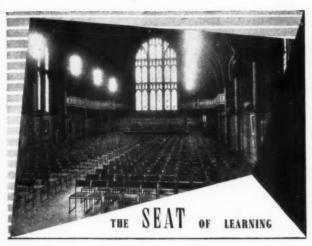
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12in., 15in. and 18in.

TheBrackets can be inserted in the supporting co umns at various heights in a matter of seconds. They are perfectly safe, hard wearing and ook attractive and tidy. Just insert the top anchor hook, depress the bracket and it locks itself! Brackets and support are non-corrosive and will take either wood or glass shelves.





RK

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ES

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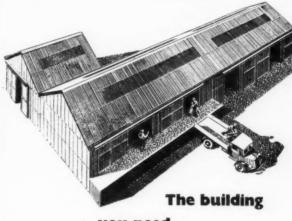
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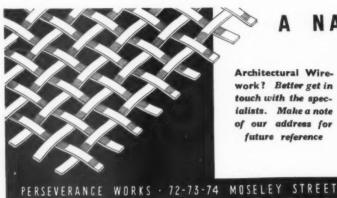
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Architectural Wirework? Better get in touch with the specialists. Make a note of our address for future reference



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 PROVER II Crystals protect and preserve Old and New Floors— the effective hardening treatment for cement surfaces, concrete and granolithic floors. Eliminates dusting and resists the erosive action of oils, acids, etc. EVODE PROVER II Crystals have a silica base—scientifically prepared to obtain the maximum chemical reaction on the soft particles of concrete and transforming them into hard flint-like compounds. The result is a permanent, hard-wearing, dustless floor. Does not contain Silicate of Soda.

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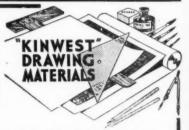
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CLASSIFIED ADVERTISEMENTS

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

paper.
Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address

care of "The given above.

Public and Official Announcements

Public and Official Announcements
25s. per inch; each additional line, 2s.
NORTH THAMES GAS BOARD.
Applications are invited for the following appointment in the Architects' Section of the Chief Engineer's Department of Westminster:
SENIOR ARCHITECTURAL ASSISTANT, minimum starting salary 2650 per annum. Applicants, who must be Registered Architects and should be studying for or have passed the Final Examination of the R.I.B.A., should be capable of preparing working and detailed drawings and specifications, and supervising and controlling the work on contracts. Experience in design and planning of industrial buildings would be an advantage.

design and planning of industrial buildings would be an advantage.

The appointment is of a permanent nature, and pension arrangements will be discussed with abort list candidates.

Applications, stating age, qualifications, and particulars of previous appointments held, must be submitted to the Staff Controller, North Thames Gas Board, 30, Kensington Church Street, London, W.S. quoting reference 9757

4341

London, W.8, quoting reference 9757

LONDON COUNTY COUNCIL

Applications are invited for positions of ARCHITECTURAL ASSISTANT saiar es up to 5880 a year) in the Housing and Valuation Department. Commencing salaries will be determined according to qualifications and experience. Engagement will be subject to the Local dovernment Superamunation Acts, and successful candidates will be eligible for consideration for appointment to the permanent staff on the occurrence of vacancies.

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

Forms of application may be obtained from the Director of Housing Technical Control of Housing Technical Control of Housing Schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's Division.

Housing Architect's Division.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed envelope required and quote reference A.A.1). Canvassing disqualifies. (816)

e

S SW1 required and quote reference A.A.1). Canvassing disqualifies. (816)

LIVERPOOL REGIONAL HOSPITAL BOARD. Applications are invited for the permanent pensionable appointment of ASSISTANT QUANTITY SURVEYOR in the Regional Architect's Department (Quantity Surveyors' Section) on the Headquarters staff of the Board.

Applicants should be Corporate Members of the Royal Institute of Chartered Surveyors, having passed the Final Examination in the Quantities Sub-Division, and should have had considerable experience in "taking-off" and settling Contractors' Final Accounts.

The work to be undertaken will include the preparation of Bills of Quantities for work carried out by the Department, in addition to other duties concerned with Private Architects and Quantity Surveyors.

Salary £655, rising by annual increments of £25 to a maximum of £710 per annum, in accordance with A.P.T., Grade VII.

The offices of the Department will shortly be moving from their present position at Alder Hey Hospital to the centre of the City.

Applications, stating age, education, qualifications, experience, present and previous appointments, salary, together with the names and addresses of three referees, should be sent to the undersigned at No. 19, James Street, Liverpool, 2, not later than Friday, 30th March, 1951.

THE HERBAN DISTRICT COUNCIL OF

THE URBAN DISTRICT COUNCIL OF HAVANT AND WATERLOO.

APPOINTMENT OF ARCHITECTURAL STAFF. Applications are invited for the undermentioned appointments:—
(a) TWO ASSISTANT ARCHITECTS, Grade A.P.T., V. The salary scale will be £520 × £15 (2) × £20 (1) -£570 per annum.
(b) ARCHITECTURAL ASSISTANT, Grade A.P.T., III, £450×£15 (3) -£495 per annum. Applicants for (a) must be Members of the Royal Institute of British Architects, with experience in the preparation of sketch designs, full working drawings and specifications, and be competent to undertake the housing and general Architectural work of Local Authorities.

Applicants for (b) should be of Intermediate R.1.B.A. standard, with a minimum of one year's experience.

experience.

The appointments are temporary (estimated to last 3 years), but will be subject to the National Conditions of Service and the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical

candidates will be received not also be obtained from Forms of application can be obtained from the undersigned, by whom applications in envelopes endorsed "Architectural staff" must be received not later than Monday, 2nd April, 1951.

B. R. W. GOFTON.

Clerk of the Council.

Town Hall, Havant. 7th March, 1951.

BINGLEY URBAN DISTRICT COUNCIL.
SURVEYOR AND ARCHITECT'S DEPT.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT.
Applications are invited for the appointment of Architectural Assistant, at a salary in accordance with Grade III of the A.P.T. Division of the National Scale of Salaries, i.e., £450×£15 to £450 re annum.

ance with Grade III of the A.F.I. Division of the National Scale of Salaries, i.e., £450×£15 to £495 per annum.

Candidates should have had experience in housing design, development, and general architectural work. Pteference will be given to candidates who have passed some portion of the examination qualifying for A.R.I.B.A.

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

It will not be possible to provide housing accommodation for the successful applicant.

Applications, stating age, qualifications, training and experience, and details of past and present appointments, accompanied by copies of three recent testimonials, should be forwarded, endorsed "Architectural Assistant," to the undersigned before the 19th March, 1951.

F. M. DUNWELL, Clerk of the Council.

Town Hall, Bingley.

Clerk of the Councit.
2027

CITY OF PETERBOROUGH.
CITY ENGINEER AND SURVEYOR'S

DEPARTMENT.

Applications are invited for the appointment of
TWO ARCHITECTURAL ASSISTANTS, at a
salary on A.P.T., Grade III (£450, rising by
annual increments to £495 per annum), and in
accordance with the National Scheme of Conditions of Service. The appointments are subject
to the provisions of the Local Government Superannuation Act, 1937, and the successful applicants
will be required to pass a medical examination.
Applicants should be good draughtsmen, possess
a sound knowledge of building construction, and
be capable of preparing working drawings under
supervision.

Housing accommodation is not immediately

supervision.

Housing accommodation is not immediately available, but the Council will, if necessary, assist the successful applicants to obtain accommodation so far as they are able, but it must be distinctly understood that the Council do not guarantee to find either a house or living

do not guarantee to find either a house or living accommodation.

Applications, stating age, qualification and experience, accompanied by copies of not more than three recent testimonials, and suitably endorsed, must be delivered to the City Engineer (Mr. F. J. Smith, M.B.E., A.M.I.C.E., Reg. Architect), at the Town Hall, Peterborough, not later than 22nd March, 1951.

Applicants must disclose whether they are related to any member or senior official of the authority.

C. PETER CLARKE.

C. PETER CLARKE, Town Clerk.

Town Hall, Peterborough.

February, 1951.

2030

LIVERPOOL REGIONAL HOSPITAL BOARD.
Applications are invited for the following permanent appointments in the Regional Architect's
Department, on the Headquarters staff of the

Board:—
ASSISTANT ARCHITECTS, at a salary in accordance with A.P.T., Grade IV, £480-£525 per

accordance with A.P.T., Grade IV, £480-£525 per annum.

Applicants should have passed the Intermediate Examination of the Royal Institute of British Architects, and have a good general experience and ability in design and construction.

The offices of the Department will shortly be moving from their present position at Alder Hey Hospital to the centre of the City.

The above appointments will be subject to the National Health Service (Superannuation) Regulations, 1950, and the successful candidates may be required to pass a medical examination.

Applications, stating age, education, qualifications, experience, present and previous appointments, salary, together with the names and addresses of three referees, should be sent to the undersigned at 19, James Street, Liverpool, 2, not later than 30th March, 1951.

VINCENT COLLINGE.
Secretary to the Board.

NORTH-WEST METROPOLITAN REGIONAL HOSPITAL BOARD.
Applications are invited for the appointment of JUNIOR ARCHITECTURAL ASSISTANT, Grade A.P.T., V, in the Architect's Department. This Department is responsible for the preparation and supervision of schemes for building all types of Hospitals, including staff housing schemes and for extensions and adaptations to existing hospitals and other premises throughout the region.

lor extensions and adaptations to existing hospitals and other premises throughout the region.

Salary scale: £520-£570 per annum, plus London weighting. Salary on appointment will be at the minimum of the scale.

Applicants should have passed the Intermediate Examination of the R.I.B.A. Good general experience in design and construction and a knowledge of hospital work is desirable.

Appointments, which are subject to medical examination and to the National Health Service (Superannuation) Regulations, 1950, will be terminable by one month's notice.

Applications, stating age and details of experience, together with names of two professional referees, should be addressed to the Secretary, North-West Metropolitan Regional Hospital Board, 11a, Portland Place, London, W.1, not later than 28th March, 1951.

CITY AND COUNTY OF THE CITY OF EXETER.

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

(a) HEATING ENGINEERING ASSISTANT (Permanent Staff). A.P.T., Grades III/IV (£450-

£525).

(b) QUANTITY SURVEYORS' ASSISTANT (Temporary Staff). A.P.T., Grades 1/II (£390-£465).

Forms of Application and further particulars and conditions of appointment may be obtained from H. B. Rowe, F.R.I.B.A., A.M.I.Struct.E., City Architect, Municipal Offices, Exeter. Completed forms must be received by him not later than 7th April, 1951.

C. J. NEWMAN.

C. J. NEWMAN, Town Clerk.

Exeter. March, 1951.

March, 1951.

March, 1951.

SALOP COUNTY COUNCIL.

COUNTY ARCHITECT.

Applications are invited from qualified persons for the whole time appointment of County Architect for Shropshire, at a salary of £2,150, rising to £2,400 per annum. A travelling and subsistence allowance will be paid.

The person appointed will be responsible for advising the County Council and other branches of the County Administration as to the whole of the County Buildings, including both new construction and maintenance (except in so far as properties belonging to the Highways and Smallholdings Departments are dealt with by those departments), and for advising the Council on such other matters and carrying out such other duties as they may from time to time require. The establishment of the department is a large one, including both engineers and quantity surveyors, and in addition to first-class architectural ability exceptional administrative capacity will be necessary. The appointment will be superannuable and subject to a medical examination.

Applications (no forms), giving particulars of

examinations (no forms), giving particulars of age, education, qualifications and experience, and the names of three referees, must be delivered to me mot later than 31st March, 1951.

G. C. GODBER, Clerk of the County Council.

Shirehall, Shrewsbury, 24th February, 1951.

MINISTRY OF WORKS.
There are vacancies in the Chief Architect's Division for ARCHITECTURAL ASSISTANTS and LEADING ARCHITECTURAL ASSISTANTS with recognised training and fair experience. Successful candidates will be employed in London and elsewhere on a wide variety of Public Buildings, including Atomic energy and other Research Establishments, Telephone Exchanges, and

ings, including Atomic energy and other Research Establishments, Telephone Exchanges, and Housing.

Salary: Architectural Assistants. £200-£25 per annum: Leading Architectural Assistants, £500-£625 per annum. Starting pay will be assessed acording to age, qualifications and experience. These rates are for London; a small deduction is made in the Provinces.

Although these are not established posts, some of them have long term possibilities, and competitions are held periodically to fill established vacancies.

vacancies.

Apply in writing, stating age, nationality, full details of experience and locality preferred, to Chief Architect, W.G.10/BC, Ministry of Works, Abell House, London, S.W.1. quoting reference W.G. 10/BC.

Abell House, London, S.W., quoting reference W.G. 10/BC.

METROPOLITAN BOROUGH OF LEWISHAM.

APPOINTMENT OF SENIOR ASSISTANT

ARCHITECT.

Applications are invited for the appointment of Senior Assistant Architect in the Borough Architect's Department, at a salary within the scale A.P.T. Division, Grade VIII (£685 × £25 – £750 per annum, plus London "weighting," age 26 and over £30 per annum, which weighting," age 26 and over £30 per annum, and the senior of the Royal Institute of British Architects with at least 8 years' experience (excluding the period spent in theoretical training), or possess a University degree in architecture in addition to being Associates of the Royal Institute of British Architects, with at least 7 years' experience (excluding the period spent in theoretical training). Preference will be given to candidates with wide housing experience, including the design and construction of multi-storey flats.

The appointment will be subject to the Rules and Regulations of the Council from time to time in force relating to Officers; to the National Scheme of Conditions of Service; to the provisions of the Local Government Superanuation Act, 1937; to termination by one month's notice on either side, and to the successful candidate passing satisfactorily a medical examination by the Council's Medical Officer of Health.

Forms of application may be obtained from the undersigned, to whom they should be returned "Appointment of Senior Assistant." so as to be received not later than Saturday, the 31st March, 1951.

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

March, 1951. Canvassing, either directly or indirectly, will be a disqualification. ALAN MILNER SMITH, Town Clerk. Lewisham Town Hall. Catford, S.E.6. 2nd March, 1951.

1xxv

OUNDLE AND THRAPSTON RURAL

JUNIOR ARCHITECTURAL ASSISTANT.
Applications are invited for the appointment of a Junior Architectural Assistant in the Architect's Department of the above Authority, at a salary of £429, rising to £465, in accordance with A.P.T., Grade II.

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

Applicants should be of R.I.B.A. Intermediate Examination standard, have served Articles in an Architect's office, and have had experience in the preparation of Working Drawings, and making of Surveys.

Applications, endorsed "Architectural Assistant, stating age, qualifications, previous and pregnt appointments, and details of training and experience, accompanied by copies of three recent testimonials, should reach the undersigned not later than Wednesday, 21st March, 1951.

H. H. HASSALL,

H. H. HASSALL,
Council Offices, Midland Road, Thrapston.
COUNCIL TO MARCH, 1951.

3rd March, 1951.

2065
COUNTY BOROUGH OF NORTHAMPTON.
DEPARTMENT OF BOROUGH ARCHITECT
AND TOWN PLANNING OFFICER.
Applications for the following permanent posts.
stating post applied for, age, qualifications, experience, past and present appointments and
salary, whether related to any member or senior
officer of the Council, and giving names of two
persons to whom reference can be made, should
be sent to J. L. Womersley, A.R.I.B.A.,
A.M.T.P.L., Borough Architect and Town
Planning Officer, by 22nd March. Canvassing
will disquality.

Planning Officer, by 22nd March.
will disqualify.
(a) TOWN PLANNING ASSISTANT. A.P.T.,
V (£520-£570). To work on the Survey and Development Plan and detailed replanning schemes
for central area.
(b) ARCHITECTURAL ASSISTANT. A.P.T.,
III (£450-£495). To work on houses, flats, etc.
(c) ASSISTANT MAINTENANCE SURVEYOR.
A.P.T., III (£450-£495). To assist in maintenance of Properties.

C. E. VIVIAN ROWE,

Town Clerk.
2064

BEDFORDSHIRE COUNTY COUNCIL invite applications for the following superannuable applications for the following superannuable posts:—

(a) ASSISTANT ARCHITECT. A.P.T., Grade

posts:—
(a) ASSISTANT ARCHITECT. A.P.T., Grade
VI (£995.£660 per annum).
(b) ARCHITECTURAL ASSISTANT. A.P.T.,
Grades IV (£490.£252 per annum), and II (£420.£465 per annum).
Applicants for post of Assistant Architect abould be Associate Members of the Royal Institute of British Architects, and the person appointed will take charge of a group working on minor works.
Architectural Assistants appointed will work within teams dealing with major School projects.
Previous Local Government experience not essential, but applicants should be keenly interested in contemporary design.
Application forms from the undersigned must be returned, with three recent testimonnals or the names of referees by 26th March, 1951.

J. B. GRAHAM.
Shire Hall, Bedford.

2063

Shire Hall, Bedford. 2063

CITY OF PORTSMOUTH.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:

(a) ASSISTANT ARCHITECTS. Grade VI (£955-£960), and Grade V (£950-£970).

Applicants should be Associates R.I.B.A., with adequate office experience.

(b) ASSISTANT QUANTITY SURVEYORS. Grade VI (£956-£960).

Candidates should be Professional Associates of the Chartered Surveyors' Institution, qualified in the Quantities Sub-Division, with experience in taking-off, abstracting, billing, estimating, site measurement, preparation of interim certificates and final accounts.

(c) ASSISTANT QUANTITY SURVEYORS. Grade V (£520-£570).

Candidates should be experienced in taking-off, abstracting, billing, estimating, site measurement, preparation of interim certificates, and final accounts.

(d) JUNIOR ASSISTANT QUANTITY SUR-

apstracting, containing the preparation of interim certificates, and final accounts.

(d) JUNIOR ASSISTANT QUANTITY SURVEYOR. Grade I (£390-£435).

Candidates should have had experience in site measuring, abstracting, and taking off minor works under supervision.

A special subsistence allowance may be paid to a married applicant for a period of six months after taking up the appointment if he is unable to secure housing accommodation immediately. Applications, setting out in tabular form name, age, qualifications, present post and salary, previous posts with dates, details of experience, with names of three referees, must be delivered to the undersigned not later than 10 a.m. on Tuesday. 27th March, 1961.

Canvassing will disqualify.

V. BLANCHARD.

Town Clerk.

City Council Chambers.

1, Clarence Parade, Portsmouth.

28th February, 1961.

THE IMPERIAL WAR GRAVES COMMISSION invite applications from suitably qualified candidates for two posts of SENIOR
SUPERINTENDENT OF WORKS in their India,
Pakistan and South East Asia district. Initial
postings would be to Kohima in Assam and to
Rangoon in Burma. All candidates should be
under 50 years of age, have had experience in
carrying out constructional work abroad, and
have some knowledge of the country concerned.
Membership of the Royal Institution of Civil
Engineers or Royal Institute of British Architects or Royal Institute of British Architects or Royal Institute of British Architects or Royal Institute of Chartered Surveyors
and Military Works Service experience would be
advantages. Single men or married men prepared to leave their families in this country only
will be considered. Candidates must be prepared
to live on sites. Salary scale £625×£25-£750 per
annum, plus foreign service allowance, at present
at the rate of £150 per annum for a married man
unaccompanied by his wife in Burma, plus free
accommodation in each case.
Applications should reach the Appointments
Officer, Imperial War Graves
Wooburn House, Wooburn Green, High Wycombe,
Bucks., within two weeks of the appearance of
this notice.

LINDSEY COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Vacancies on the permanent staff as follows:—
(a) SENIOR AICCHITECTURAL ASSISTANT.
A.P.T., V, £520-£570. Sound practical knowledge required in connection with maintenance and improvements to Police Buildings. Person appointed will be required to maintain car.
(b) TWO: BUILDING INSPECTORS. A.P.T., IV, £480×£15-£525. Duties in connection with repair and maintenance of Controlled Schools, preference for persons able to prepare rough estimates, explanatory drawings, and brief specifications.

estimates, explanatory drawings, and brief specifications.

(c) HEATING ASSISTANT. A.P.T., II. £420× £15-£465. Duties: Designing small heating schemes and preparing working site drawings. Allowance of £5a. per week and return fare home bi-monthly may be paid for up to six months to married men unable to find house. N.J.C. Conditions of Service. Any applicant related to member or senior officer of Council to disclesse that fact. Canvassing will disquality. Applications, stating age, qualifications and experience, with copies of two testimonials, to the undersigned not later than Tuesday, 27th March, 1951.

A. RONALD CLARK, A.R.I.B.A., A.M.T.P.I., County Architect

County Offices, Lincoln.

County Offices, Lincoln.

NATIONAL COAL BOARD—EAST MIDLANDS DIVISION.

ARCHITECT'S DEPARTMENT.

Applications are invited for the permanent and superannuated appointment of:—

QUANTITY SURVEYOR, Grade II. Salary 2450×225—2700 per annum.

Applicants should preferably be Members of the R.I.C.S., with experience in the preparation of Bills of Quantities, detailed approximate estimates, and preparation of Specifications.

The point of entry into the relevant salary scales will depend on the qualifications and experience of the successful applicants, and, subject to satisfactory service, opportunities will be available for promotion to higher grades.

The work of the Department covers all new projects in the Division, and includes industrial buildings of all types, such as workshops, power plants, offices, stores, pithead baths, canteens, medical centres, recreation buildings, convalescent homes, etc.

Applications, stating age, education, qualifications, experience and present appointment and salary, should be submitted within 14 days of publication of this advertisement, to:—

THE SECRETARY,

National Coal Board,

East Midlands Division,

Sherwood Lodge, Arnold, near Nottingham.

Envelopes should be marked "S.V.55," and original testimentals should not be sent.

2115

BUILDING INSPECTORS.

The Road Haulage Executive invite applications for positions as Building Inspectors within the salary range £485-£50 per annum in the South-Eastern Division (London). Applicants should be thoroughly experienced in the maintenance of all types of buildings and supervision of small alterations, able to draw up detailed specification and supervise the execution of all classes of work, with simple drawings. They should also be fully qualified to price est mates and check builders accounts. Full knowledge of procedure in obtaining licences, by-law approval, and ability to write reports and deal with correspondence will be necessary.

Full details in chronological order should be given of past experience and positions held, with age, present salary, and any qualifications possessed.

Applications should be sent to the: Applications should be sent to the:

DIVISIONAL MANAGER (8.V.),
South-Eastern Division (Surveyor's Department),
Road Haulage Executive,
150, Goswell Road, E.C.1,
within 7 days of the appearance of this advertisement. 2073

NEWCASTLE REGIONAL HOSPITAL BOARD.

ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of a GENERAL ARCHITECTURAL ASSISTANT (Grade A.P.T., IV, £480 to £525 per annum), on the permanent Headquarters staff of the Board's Architect in Newcastle.

The appointment will be to that section of the staff which is concerned with practical architectural works throughout the Region (which includes the Counties of Northumberland, Durham, Cumberland, and parts of Westmorland and Yorkshire).

To young architects who wish to gain an introduction to or specialise in hospital practice the appointment offers an excellent opportunity for doing good class work, full of interest and variety and in a developing service.

Applicants should have served articles of pupilage or have worked in an architectural office for a minimum period of three years, and should have passed the Intermediate Examination of the Royal Institute of British Architects or its equivalent at one of the recognised Schools of Architecture. They should since have had practical experience in assisting with the preparation of sketch designs and working drawings for public buildings.

Evening study facilities in connection with the Final Examination of the Royal Institute of British Architects are available at the University of Durham King's College, Newcastle-on-Tyme. The appointment will be subject to the provisions of the National Health Service (Superannuation).

Applicants should state: (1) Name and full address; (2) age and whether married; (3) degrees and professional qualifications; (4) experience; (5) present appointment and salary; (6) war service; (7) date available if appointed, and (8) names and addresses of three referees.

Applications should he forwarded to the Secretary to the Board not later than 24th March.

E. B. JENKINS, Secretary. "Dunira," Osborne Road, Newcastle-upon-Tyne, 2, 1st March, 1951

Ist March, 1951

COUNTY BOROUGH OF BOLTON.
HOUSING DEPARTMENT.

Applications are invited for the appointment of an ASSISTANT ARCHITECT on the permanent staff of the Housing Department, at a salary in accordance with Grades Vivi of the A.P.T. Division of the National Joint Council Scales, viz., £520, rising by annual increments to a maximum of £660 per annum.

Applicants must have had experience in design, construction, preparation of working drawings, and details for Municipal housing schemes. Preference will be given to Members of the R.I.B.A. or candidates possessing similar qualifications. The appointment will be superannuable, and the person appointed will be required to pass a medical examination.

Applications, stating age, qualifications, and details of experience, and accompanied by copies of two recent testimonials, should be sent to the undersigned, endorsed "Assistant Architect, Housing Department," not later than the 24th March, 1951.

PHILIP S. RENNISON,

PHILIP S. RENNISON, Town Clerk. Town Hall. Bolton.

CITY OF BATH.

CITY PLANNING AND ARCHITECTURAL

DEPARTMENT.

Applications are invited for the following permanent appointments:—

(a) CHIEF ARCHITECTURAL ASSISTANT.

Grade A.P.T., VI (£35-£710).

(b) GENERAL ARCHITECTURAL ASSISTANT.

Grade A.P.T., VI (£30-£570).

Applicants must be Registered Architects, and in the case of (a) should be Associates of the Royal Institute of British Architects.

Applicants for (a) must have had good experience in the design and construction of Municipal Housing and other works, administration, and be capable of supervising the staff of the Architectural Section. Applicants for (b) should be experienced in the design and construction of Municipal Housing.

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

Applications, stating age, qualifications and experience, together with the names and addresses of three referees, should be sent to the City Planning Officer, 2, Princes Buildings, Batk, not later than 31st March, 1951.

Guildhall, Bath.

March, 1961.

Guildhall, Bath. March, 1961.

BOROUGH OF CHATHAM.

APPOINTMENT OF CHIEF ASSISTANT

ARCHITECT.

Applications are invited for the appointment of the chief Assistant Architect, within Grade VII 2635-2710.

of Chief Assistant Architect, within Grade 711 (£635-£710).
Housing accommodation will be made avallable if required.
Conditions of appointment and form of application may be obtained from Mr. H. D. Peake. M.Sc. (Eng.), Borough Engineer and Surveyor, Town Hall, Chatham, to whom completed application forms should be returned not later than Friday. 6th April, 1951.

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ds had pre-wings COUNTY BOROUGH OF SOUTHAMPTON.
BOROUGH ARCHITECT'S DEPARTMENT.
Applications are invited for the position of SENIOR ARCHITECT, Grade VI (£595-£660).
Applications, on forms obtainable from L.
Berger, Dip. Arch., A.R.I.B.A., Burough Architect, Civic Centre, Southampton, must be returned not later than the 27th March, 1951.

STAPFORDSHIRE COUNTY COUNCIL.
ARCHITECT'S DEPARTMENT.
APPOINTMENT OF ARCHITECTURAL STAFF.
Applications are invited for the above, from experienced and capable ARCHITECTURAL SSISTANTS, at salaries within Glades V to IX of the National Scales (commencing salary between £520 and £750 per annum, according to grading), plus a temporary lodging allowance in appropriate circumstances. Applications, giving full details of experience, qualifications, age, etc., together with copies of three recent testimonials, should be forwarded as soon as possible to the County Architect, Martin Street, Stafford.

T. H. EVANS.
Clerk of the County Council.
County Buildings, Stafford.

5th March, 1951.

BOROUGH OF RUGEY.

BOROUGH OF RUGBY.

ARCHITECTURAL ASSISTANT.

Applications are invited for the permanent position of ARCHITECTURAL ASSISTANT in the Borough Engineer's Department. Salary A.P.T., IY. £480-£525.

Preference will be given to candidates who have passed the Intermediate Examination of the E.I.B.A.

Applications, giving details of qualifications and experience, together with copies of three recent testimonials, should be delivered to the Borough Engineer and Surveyor, Burford House, Charch Walk, Rugby, not later than Wednesday, the 21st March, 1951.

D. E. BIART.

D. E. BIART, Town Clerk

COUNTY BOROUGH OF BARROW-IN-FURNESS.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.
Applications of invited the common of the comm

Applications are invited for the permanent applinament of QUANTITY SURVEYOR, Grade VI (£595-£660 p.a.).

The Council has accepted the principle of providing housing acommodation.

Further particulars, conditions of appointment and forms of application, may be obtained from the Borough Engineer and Surveyor. Town Hall, Barrow-in-Furness, to whom completed applications must be returned not later than Monday, 3th March, 1951.

LAWRENCE ALLEN.

LAWRENCE ALLEN. Town Clerk

LAWRENCE ALLEN.

Town Hall, Barrow-in-Furness.

LINDSEY COUNTY COUNCIL.
PLANNING DEPARTMENT.

SENIOR PLANNING ASSISTANT (ARCHITECTURAL)

Wanted on Grade A.P.T., VII.

(£635×£25—£710). Duties mainly in connection with preparation of development plan. A.R.I.B.A. qualification essential. Planning experience also preferred. Person appointed must provide and maintain ear, for which normal allowance payable. Allowance of 25s. per week and return fare home bi-monthly may be paid for up to 6 months to married man unable to find house. Applications, stating age, qualifications and previous experience, together with one testimonial and the names and addresses of two referees, must be forwarded to Mr. R. L. Stirling, County Planning Officer, The Castle, Lincoln. Dot later than 31st March, 1951.

Candidates must disclese, in writing, whether to their knowledge they are related to any member or senior officer of the Council. Canvassing, directly or indirectly, will disqualify.

H. COPLAND.

Clerk of the County Council.

County Offices, Newland, Lincoln.

2068

METROPOLITAN BOROUGH OF BATTERSEA.

County Offices, Newland, Lincoln.
2nd March, 1951.

2068

METROPOLITAN BOROUGH OF BATTERSEA.
APPOINTMENT OF TECHNICAL
ASSISTANTS.
Applications are invited for the following permanent appointments in the Borough Engineer and Surveyor's Department, according to the National Joint Council's Scale of Salaries.

BUILDING WORKS SECTION:
(1) BENIOR ESTIMATOR AND BUILDING WORKS ASSISTANT. A.P.T., Grades VII/VIII.
salary £535, rising by annual increments of £25 to £765 per annum.

BUILDING SURVEYOR'S SECTION:
(2) ASSISTANT BUILDING SURVEYOR.
A.P.T., Grade Va. salary £550, rising by annual increments of £20 to £610 per annum.
(3) JUNIOR BUILDING SURVEYOR. A.P.T., Grade II, salary £420, rising by annual increments of £25 to £465 per annum.
London weighting, according to age, is payable in addition in each case.
Commencing salary at any point within the grade or grades will be according to qualifications and experience of the successful candidate.

Porms of application and particulars of conditions of appointment can be obtained from the Borough Engineer and Surveyor, Town Hall, Battersea, S.W.11. Completed forms must be returned to the undersigned in a suitably and orsed envelope not later than 9 a.m. Wednesday, 28th March, 1981.

R. G. BERRY, Town Clerk.

R. G. BERRY, Town Clerk. Tows Hall, Battersea, S.W.11.

BOROUGH OF TAUNTON.

Applications are invited for the following appointments in the Borough Housing Architect's Department:—

(a) SENIOR ASSISTANT QUANTITY SURVEYOR (A.P.T., Grade Va). Salary £550, rising by annual increments to £610 p.a.

(b) SENIOR ASSISTANT ARCHITECT (A.P.T., Grade V). Salary £520, rising by annual increments to £570 p.a.

Applicants for appointment (a) should be fully qualified surveyors, having had experience in Municipal Housing Contracts.

Applicants for (b) should be fully qualified Architects, having had experience in the design and construction of Municipal Housing Estates.

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

Consideration will be given to housing accommodation if required, applications, stating age, qualifications, previous experience and the earliest date when available, together with copies of two recent testimonials, should be sent to C. Bacon, F.R.I.B.A., Borough Housing Architect, No. 2, Baldwin Road, Taunton, to reach not later than Monday, 2nd April, 1951.

L. ATWELL, Town Clerk. Municipal Buildings, Taunton. 1st March, 1951.

AMENDED.

AMENDED.

ARCHITECTURAL ASSISTANT.
Applications are invited for an appointment in the Architectural Section of the Director of Housing and Public Buildings Department.
Salary: A.P.T., Grade II (£420×£15 to £465 p.a.), plus weighting of £10, £20 or £30, according to age.

Preference will be given to capality.

p.a.), plus weighting of 210, 220 of 2.00, activating to age.

Preference will be given to candidates who have passed the R.I.B.A. Intermediate Examination or its equivalent.

Applications on forms obtainable from me: closing date, noon, 27th March, 1951.

n, 27th March, 1901.
CYRIL F. THATCHER,
Town Clerk.
2091

Town Hall, Fulham, S.W.6.

Town Hall, Fulham, S.W.6. 2091

BOROUGH OF POOLE.

APPOINTMENT OF ARCHITECTURAL

ASSISTANT.

Applications are invited for the post of ARCHITECTURAL ASSISTANT (EDUCATION), in the Borough Engineer's Department, at a salary in accordance with Grade VI of the A.P.T. Division of the National Scale of Salaries (£595-£660).

Form of application may be obtained from the undersigned, to whom completed applications should be forwarded by the 29th of March, 1951.

Living accommodation may be available, but no gnarantee can be given.

WILSON KENYON. Town Clerk.

Poole, Dorset. March, 1951.

Poole, Dorset.

March, 1951.

CITY OF BRADFORD.

CITY ENGINEER'S AND SURVEYOR'S

DEPARTMENT.

Applications are invited for the following permanent appointments:—
Post No. 122: SENIOR ASSISTANT ARCHITECT. Grade A.P.T., VIII (£685-£760).
Post No. 154: SENIOR ASSISTANT QUANTITY SURVEYOR. Grade A.P.T., IX (£750-£290).
Post No.'s 163 and 164: JUNIOR QUANTITY SURVEYING ASSISTANTS. Grades A.P.T., II-III (£420-£495). according to qualifications.

Candidates for Post. No. 122 must be Associates of the Royal Institute of British Architects, and preferably hold a University Degree in Architecture and possessing a high standard of contemporary design. Preference will be given to candidates with experience in the design of large housing estates, houses, flats, shops, etc.
Applicants for Post No. 154 should be capable of undertaking all stages of work in the preparation of Bills of Quantities. the preparation and settlement of Final Accounts, Site Measurements, Interim Certificates and preliminary estimates. Preference will be given to applicants who are Corporate Members of the Royal Institution of Chartered Surveyors (Quantities Sub-Division). Applicants for Posts No. 154 and applicants who are corporate Members of the Royal Institution of Chartered Surveyors (Quantities Sub-Division). Applicants for Posts No.'s 163 and 164 should be capable of all stages of Working Up, checking of accounts and elementary site measuring. Applicants who have undergone an approved course of training will be eligible for Grade III (£450-£495) should have passed the Intermediate Examination of the Royal Institution of Chartered Surveyors.

The appointments are subject to the Local Government Superannuation Act, 1937, including medical examination. Application must be made to the City Engineer and Surveyor for form of application (quoting Post No.). to be returned together with details of experience and not more than three testimonials to the undersigned not later than 2nd April. 1951.

Canvassing with diejaclify.

No house can be provided, but

W. H. LEATHEM, Town Clerk.

Town Hall, Bradford.

BOROUGH OF HESTON AND ISLEWORTH APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the permanent appointment of a Senior Architectural Assistant in the Department of the Borough Engineer and Surveyor (salary in accordance with A.P.T., VII, 2635-225-2710 per anum, plus London weighting of £30 per annum).

Other things being equal, preference will be given to applicants who have passed the examination for the Associateship R.I.B.A., or hold a university degree or diploma in architecture accepted by that Institution.

The person appointed must have had good experience in architectural design and building work under construction. Duties will include preparation of sketch designs, working drawings, and the handling of building contracts under construction. Experience in housing and multistoreyed flats will be considered to be an advantage.

The Council is annable to assist the successful

storeyed flats will be considered to be an advantage.

The Council is unable to assist the successful candidate with housing accommodation.

Applications on forms to be obtained from the Borough Engineer and Surveyor, 88, Lampton Road, Hounslow, must be returned to him not later than noon on 2nd April, 1951, endorsed "Senior Architectural Assistant."

HAROLD SWANN,

Town Cierk.
2089

CWMBRAN DEVELOPMENT CORPORATION (MONMOUTHSHIRE).

APPOINTMENT OF TWO JUNIOR ASSISTANT ARCHITECTS.

Applications are invited for the above appointments in the Department of the Chief Architect (Mr. J. C. P. West, A.R.I.B.A., A.M.T.P.I.),
Candidates should be graduate architects or have completed satisfactory period of professional training, and the salary for the posts will be within the range 425 to 4250 per annum.

Applications, stating age, qualifications and experience, present employment and salary, together with the names of two referees, must be received by the General Manager by the 27th March, 1961.

Town Hall (Corn Street Entrance), Newport, Mon.

COUNTY BOROUGH OF GATESHEAD.
APPOINTMENT OF TECHNICAL
ASSISTANTS.
Applications are invited for the following appointments in the Borough Surveyor's Depart-

ment:—"
(d) ONE SENIOR TOWN PLANNING ASSISTANT, Grade VII (£635-£690), who must be
qualified by examination in Town Planning, and
preference will be given where a recognised qualification in Civil Engineering or Architecture is
also held. Good experience in Town Planning and
Redevelopment Work in built-up areas is neces-

also held. Good experience in Town Planning and Redevelopment Work in built-up areas is necessary.

(e) TWO TOWN PLANNING ASSISTANTS, Grade VI (£595-£660), who must be qualified by examination in Town Planning, and preference will be given where a recognised qualification in Civil Engineering or Architecture is also held. Experience in Town Planning and Redevelopment Work in built-up areas is necessary.

(f) TWO TOWN PLANNING BASIC SURVEY ASSISTANTS, Grade I (£390-£435), who should have some experience in Surveying and Town Planning.

The above appointments, which are terminable by one month's notice ca either side, are subject to the Local Government Superannuation Acts, and the successful candidates will be required to the Local Government Superannuation Acts, and the successful candidates will be required to the Local Government Superannuation Acts, and accompanied by not more than three recent testimonials, must be sent to Mr. A. J. McGregor, Borough Surveyor, Municipal Buildings, Swinburne Street, Gateshead, 8, by 13t March, 1951. Candidates must declare their relationship, if any, with any member or senior official of the Council.

J. W. PORTER, Town Clerk.

J. W. PORTER, Town C.erk.

Town Hall, Gateshead, 8. 27th February, 1951.

CITY OF DURHAM.

ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant in the City Engeneer and Architect's Department, at a salary (in accordance with Grade V of the National Joint Conneil Scale), commencing at £520 per annum and rising to £570 per annum.

The Council is prepared to consider the allocation of a house to the successful applicant if required.

Applicants must be therewell.

The Council is prepared to the successful applicant if required.

Applicants must be thoroughly experienced in the design and specification of Council houses and related architectural work. The app intment will be terminable by one month's notice on either side, and is subject to the provisions of the Local Government Superannuation and to the National Joint Council's Scheme of Conditions of Service.

Canvassing in any form will disquality, and applicants must disclose relationship. If any to a member or senior officer of the Council.

Applications, endorsed "Architectural Assistant. Stating age, education and training, qualifications, present and previous appointments and experience, and the names and addresses of two Referces, must be delivered to the undersigned not later than the 21st March, 1951.

2067

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OXFORD REGIONAL HOSPITAL BOARD.
Applications are invited for the post of ASSISTANT ARCHITECT, scale £300×£25—£900 per annum. They should have had a wide experience in piaening and construction and in the preparation of working drawings. It is essential that they should have had experience in all types of hospital planning. The post will be permanent and subject to deduction for superannation under the National Health Service Scheme.
Candidates must be Registered Architects and have passed the Final Examination of the Royal Institute of British Architects.
Applications, stating age, qualifications, experience and present appointment, with the names of two referees, should reach the Secretary of the Board. 43. Banbury Road, Oxford, not later than 14th April, 1951.

CROWN AGENTS FOR THE COLONIES.

Board 43. Banbury Road, Oxford, not later than 14th April, 1951.

CROWN AGENTS FOR THE COLONIES.
ARCHITECIURAL ASSISTANT required by the Government of Kenya for the Public Works Department for one tour of four years in the first instance. Commencing salary according to age and experience in the scale £670. rising to £840 a year. Outfit allowance £20. Gratuity on satisfactory completion of service. Free passages. Liberal leave on full salary. Candidates not over 40 years of age, should have a g. od general education and sound knowledge of building construction, and should be accurate draughtsmen with good experience in an Architect's office. Apply at once by letter, stating age, full names in block letters and full particulars of qualifications and experience, and mentioning this paper to the Crown Agents for the Coionies, 4, Milibank, London, S.W.1. quoting M.27156.A on both letter and envelope. The Crown Agents cannot undertake to acknowledge all applications, and will communicate only with applicants selected for further consideration.

OXFORDSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for ASSISTANT
ARCHITECT'S, Grade VI (£595-£660).
Candidates should have a sound knowledge of
design and construction of Schools, and must be
Ass.ciates of the R.I.B.A.
The appointment is on the established staff of
the County Architect and subject to the provisions of the Local Government Superanneation
Act. 1937, and the successful candidates will be
required to pass a medical examination to the
satisfaction of the Council.
App.fections, stating age and experience,
accompanied by copies of three recent testimonials, are to be sent to the County
Architect, 3. Becket S.reet, Oxford, not later than the 22nd
March, 1951.

(Sgd.) F. G. SCOTT.

(Sgd.) F. G. SCOTT. Clerk of the Council.

County Hall, Oxford. 2nd March, 1951.

Competition and Exhibition

Competition and Exhibition
6 lines or under, 12s. 6d.; each additional line, 2s.

LEICESTER COLLEGE OF ART.
FESTIVAL OF BRITAIN.
The City of Leicester Art Gallery Committee is proposing to stage in the Autumn an Exhibition of the work of Students and Staff who have been associated with the Leicester Col.ege of Art. Will all past Students and those who have served on the staff who are willing to submit work for this Exhibition write at once to the Principal of the College, The Newarke, Leicester.

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

CADBURY BROTHERS, LTD., require an ARCHITECTURAL ASSISTANT, with knowledge of industrial design, to assist in designing large factory units. Write, stating age, experience, and salary required, to E.M.A., Cadbury Bros., Ltd., Bournville. 1940

RCHITECTURAL ASSISTANTS (TWO), Senior, required for Dublin City office, Eire, Expert knowledge working drawings, building construction and alteration works, also Hospital and Institution design. £500 to £750 per year. Enclose copy of references. Box 1981. Architectural Appointments Vacant

MALE ARCHITECTURAL ASSISTANT, bet. Londen office. Varied and in. wk. of a contemp. nature, mainly indust. and comm. Write exp., age, sal. red'd. Box 2034.

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nature, mainly indust, and comm. Write exp., age, sal. req'd. Box 2034.

ARCHITECTURAL ASSISTANT, of Intermediate standard, required immediately. Must have experience in preparing working drawings and details. Apply, stating age, experience, and salary required to W. J. Lewis & Sons, 68, Cranbrook Road. Ifford. Essex.

ACHITECTURAL ASSISTANT required by Gol'ins. Melvin & Partners. Capable working drawings. Salary £350-£550. Office experience essential. Five-day week. Telephone Museum 6833 for appointment.

ACHITECT'S ASSISTANT required in ACHITECT'S ASSISTANT required for the control of the control

SENIOR ASSISTANT, not necessarily qualified but with experience of job administration, required for interesting work of contemporary character. Saisty according to experience, Lavender, Twentyman & Percy, 2, Waterioo Road, Woivernampton.

REQUIRED, at Company's head office, Guildrord, ARCHITECTURAL ASSISTANT, k.i.B.A. Intermediate standard. Varied work, main.y factory. Five-day week. Salary by arrangement. Box 2045.

ATTAINGMENT. BOX 2048.

EXPERIENCED ARCHITECTURAL ASSISTANT required. A.R.I.B.A. Write, stating age, experience and satary required, to Booth and Ledeboer, Architects, 14, Lancoln's Inn Fields, w.C.2.

A RCHITECT'S ASSISTANT required, with knowledge and ability to prepare working drawings and details in London office. Salary according to experience. Write Box 2120

according to experience. Write Box 2120.

A RCHITECTURAL ASSISTANT required, of R.I.B.A. Intermediate-Final standard. Must have ability to supervise other's work. Pension scheme avai.able; good holidays. Saiary by arrangement, plus travelling and subsistence expenses on business trips. Write Gordon Payne and Preece, 19, Carence Street, Gloucester. 2121

CCHERRER & HICKS, 19, Cavendish Square, W.I., require ARCHITECTURAL.

W.1, require ARCHITECTURAL ASSISTANT, post-Intermediate standard. Salary by arrangement. Telephone Museum 1105. 2122

R E Coventry Competition, Architect (F.), pre-tion of young ARCHITECT and a 4-5th year STUDENT, with sufficient spare time. Intelligent, Box 2085.

RCHITECTURAL ASSISTANT, of Inter-mediate standard, required immediate'y by n of Architects in West End of Lendon. ary according to experience and qualifications.

ROY 2079.

RICHARD COSTAIN, LTD., require SENIOR ARCHITECTURAL ASSISTANTS for permanent and progressive situations. Sound knowledge of design, wrking details, and fully experienced in all building subjects. Only draughtsmen of the highest standard and 35 years of age or over will be considered. Applications should contain details of qualifications, experience, and approximate salary required, to Personnel Director, Richard Costain, Ltd., Dolphin Square, London, S.W.I.

London, S.W.I. 2105

A RCHITECTURAL ASSISTANT required,
with varied experience of housing and industrial buildings. Intermediate standard. NorthWest Kent area. Salary 245 p.a. Full particulars in writing to Box 2106.

TANTANTED experienced APCHITECETURAL

Treat Aent area. Salary £459 p.a. Full particulars in writing to Box 2106.

WANTED, experienced ARCHITECTURAL ASSISTANT (A.R.I.B.A. or Intermediate standard). West Biding of Yorks. Full particulars, including salary required, to Box 2107.

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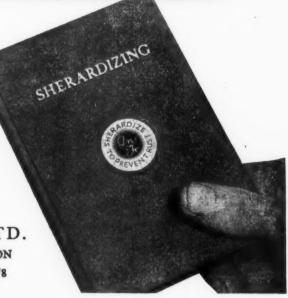
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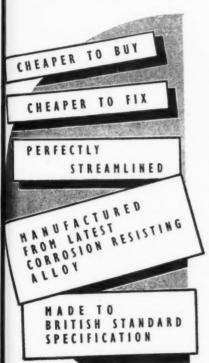


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