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

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SECTION ECHNICAL

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ΗI \star 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. Institution of Gas Engineers. 17, Grosvenor Crescent, S.W.1. Institution of Heating and Ventilating Engineers. 49, Cadogan Square. IGE Sloane 8266 IHVE Sloane 1601/3158 UBD Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.1. Euston 2450 ILA I of Arb

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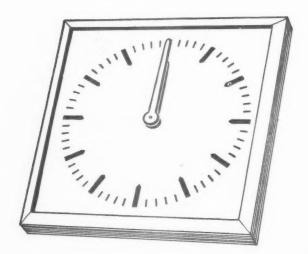
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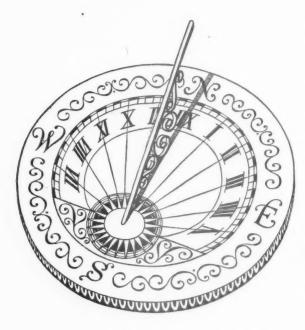
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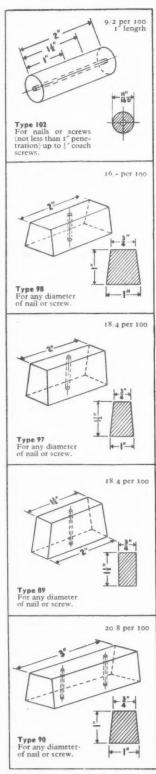
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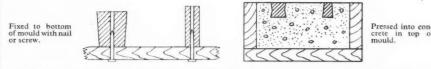


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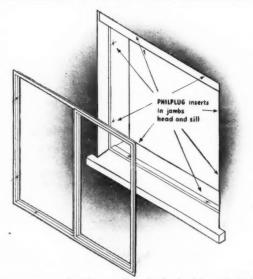
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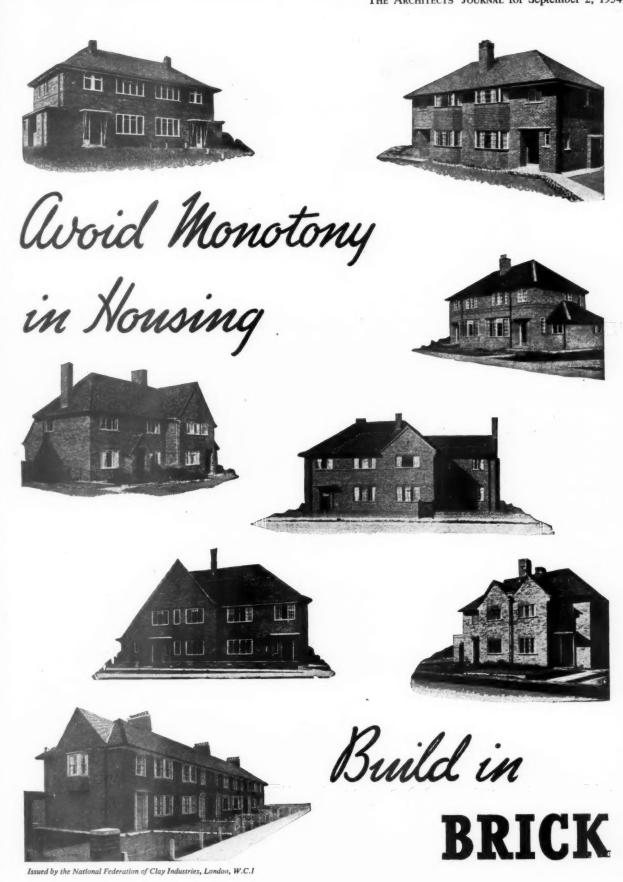
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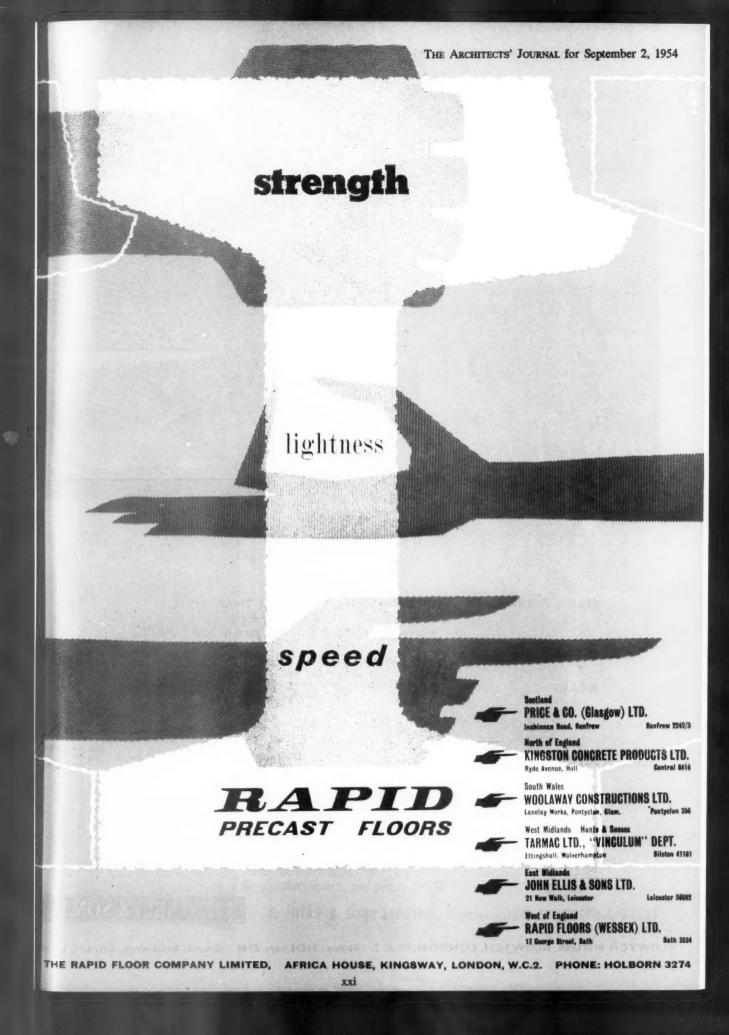
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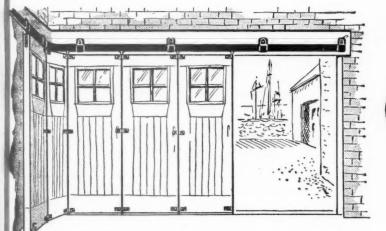
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ROUND-THE-CORNER GEAR

GEAR

DOOR

THE ORIGINÁL AND BEST

ROUND-THE-CORNER GEAR is ideal for use in garages and similar buildings and our range varies from the lightest door-size to a type suitable for bus garages.

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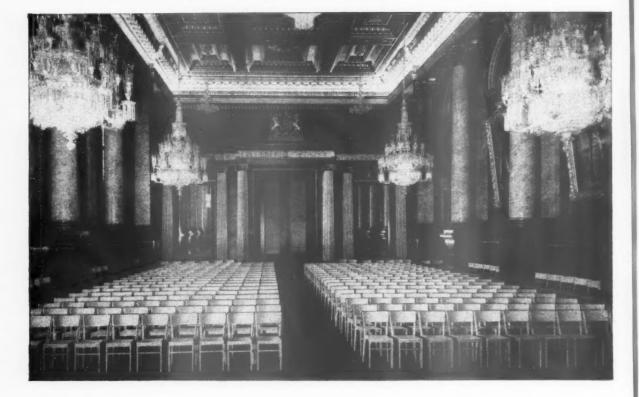
illustrated is ideal for dividing living or public rooms as, on this type, the fittings are not visible on either face of the leaves.

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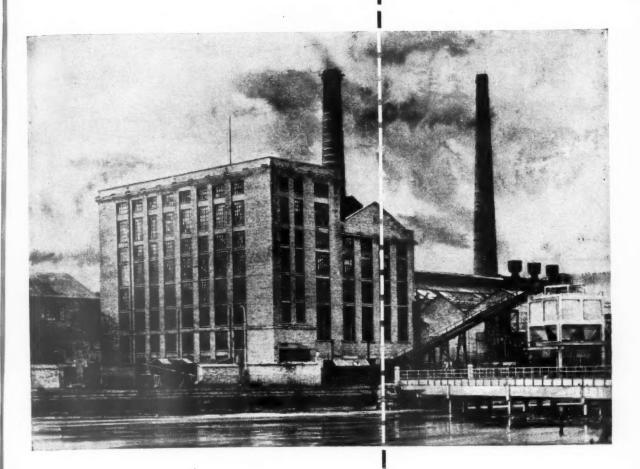
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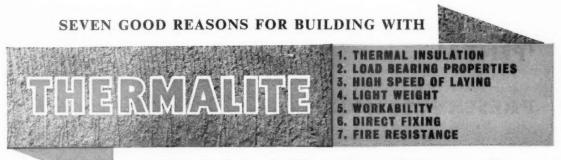
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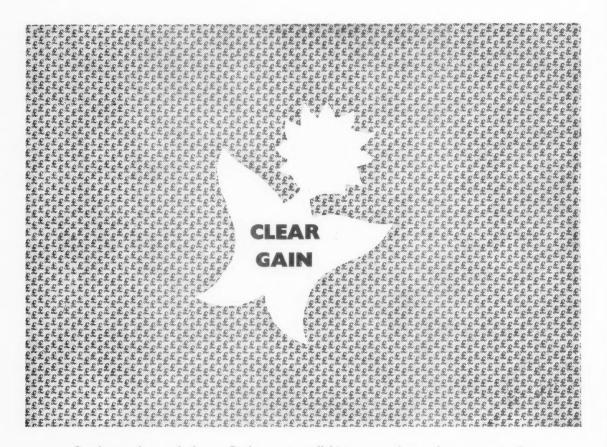
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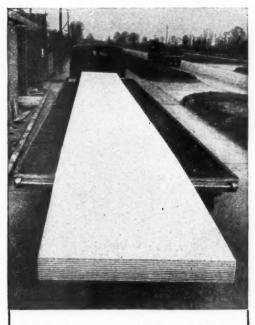
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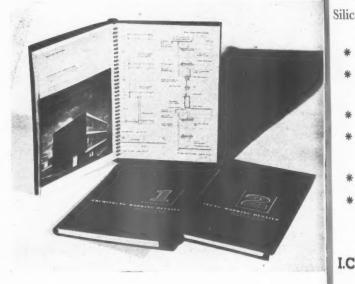
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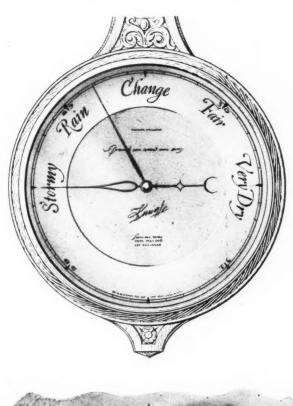
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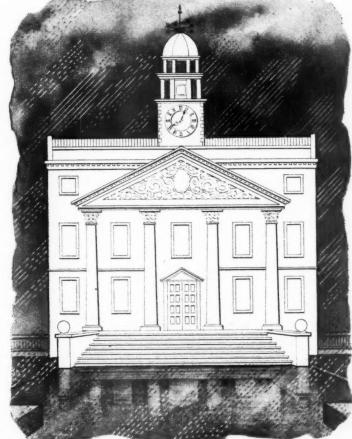
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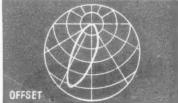
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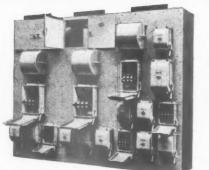
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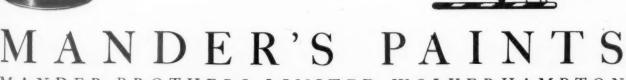
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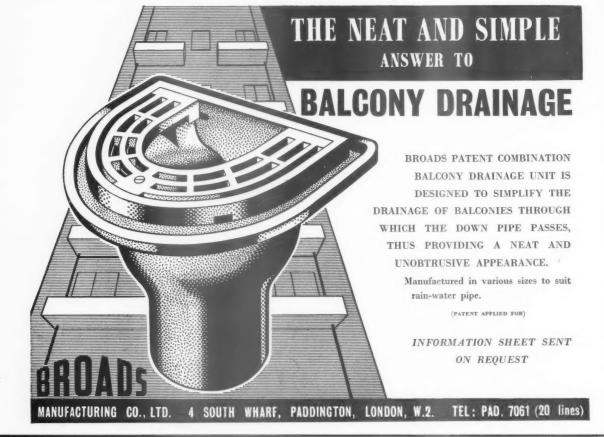


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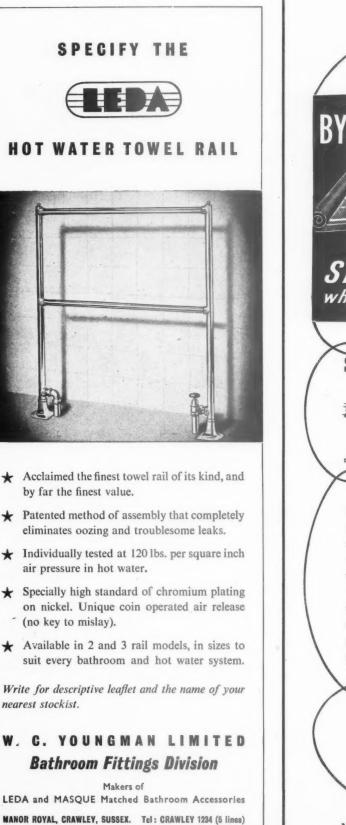
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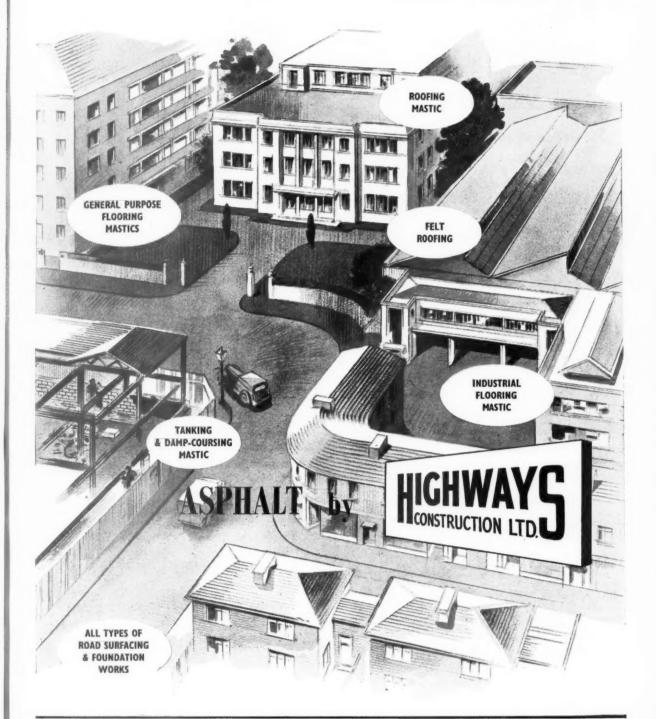
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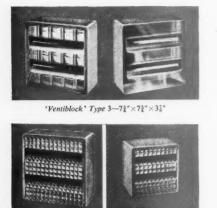
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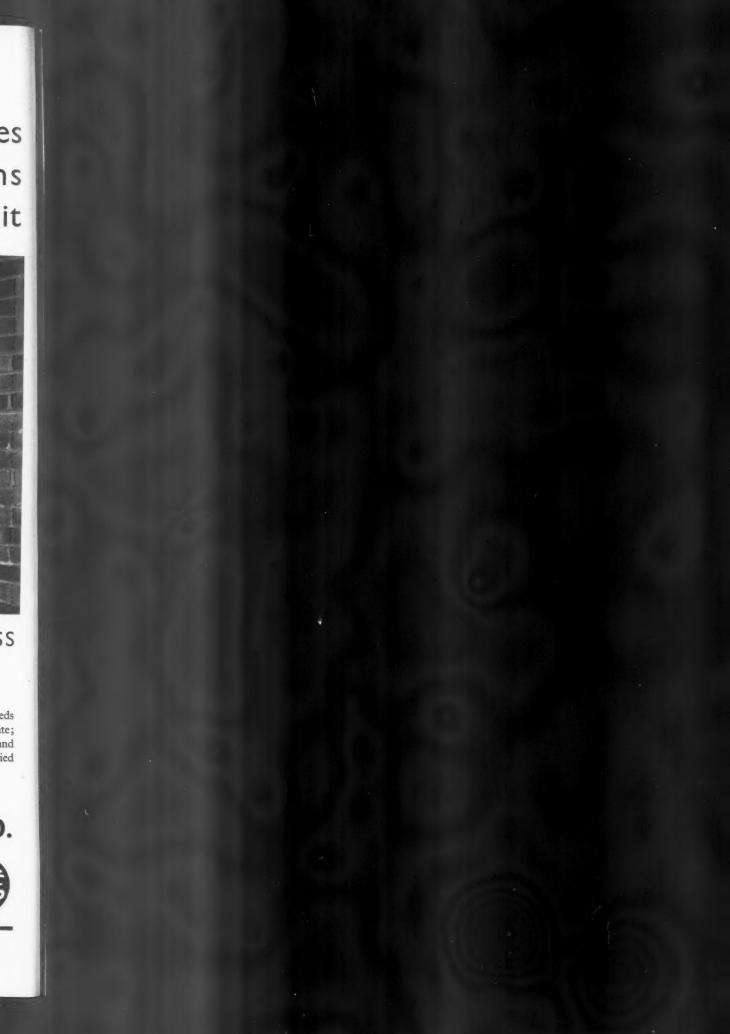
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No. 3105 September 2, 1954 VOL. 120



WESTMINSTER HOUSE, COLOMBO

One by one the colours of reaction are being struck, making the task of dreadnought ASTRAGAL progressively harder as design targets for abuse become more and more scarce. That battered hulk, the MOW has barely a period style left in its locker-witness the latest product of the Chief Architect (Eric Bedford)'s Division of the MOW-the UK High Commissioner's residence in Colombo (see page 273). Four years ago the MOW was always good for a bit of abuse-you will remember the full fig classic of the Rio Embassy. The scathing roar of opprobrium began even before the object of it had been clearly identified, so sure was every critic of the MOW's inadequacy in design. Occasionally there is still a little flutter in the legs of dying reaction—witness this week's frontispiece, page 274. But now, on the whole, the indiscriminate bludgeon of abuse must be dropped and replaced with sharper, more precise comment, oiled with praise.

Plans and interior photographs of the residence are not yet available, so the design cannot be judged fairly—indeed, there is a lot to be said for making no comment on a building without first seeing it "in the flesh" so to speak. Not being able to get to Colombo this week, however, a cautious assessment on the evidence provided by the photographs shown must suffice. There is a refreshing absence of pretentiousness about the design and the general impression is of simple workmanlike clarity.

The paired french windows on the right-hand balcony seem a trifle clumsy, however, as is the handling of the supporting columns to balcony and eaves. It is to be hoped, too, that the light grey strips between the square panels of stone on the ground floor are, in fact, concrete columns and are not purely decorative.

Apart from these small misgivings, it would seem that a creditable effort has been made which is surely nearly up to the standard of a second-rate power.

RADIO SHOW

The current radio and television exhibition at Earls Court is another field where old-style abuse is no longer necessary. It took quite a determined plod round before even a small stock of period and modernistic horrors in cabinet design could be accumulated. The bulk of the exhibits were what passes for modern. Dull, but safely on the contemporary band-wagon.

ASTRAGAL could not find, unfortunately, two things for which he has been waiting for years: decent cupboard space for storing gramophone records, and radio, TV, radiogram and record racks, designed on a multi-unit system (building up vertically and/or horizontally on the lines of unit furniture) at a reasonable price.

TV's commercialisation seems to have made hardly any difference either to the appearance or the price of sets and most makers are now producing models which will receive either programme. The screens are larger and some are flatter and it seems that the older 9-in. tube is now dead. You can also buy radio sets to receive the very high frequency service which is to start in certain regions next year.

The standard of stand design varied considerably. One got the impression that this world has been handed over entirely to the industrial designer and the exhibition firms who can deal fairly competently with the architect-created clichés. Ecko, Invicta, and others, favoured tubular frames and coloured panels, Mullard favoured Mies-Murphy and Ferranti were good enough and Sobell's was neat, colourful and straightforward. All these, and a few others, were much improved, by contrast, by Regentone's mock Regency and Ferguson's and RGD's vulgarity

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amongst many others, not forgetting the worst feature of all: the gilded baskets, palms, tubbed shrubs and striped canvas chairs of the overseas visitors' reception area, right opposite, needless to say, the main entrance.

ABC(3)D

The wag, who observed, after looking at some competition drawings liberally adorned with stuck-on mechanical tints, that their author must have been born with silver scissors in his mouth, is going to have a gay old time when he sees a new development which has just reached my ears: a new kind of stick-on lettering which has the unarguable advantages of being threedimensional, and is designed (by W. M. de Majo) in the sort of typefaces which will cause smooth operators to say "that's for me!"

The usefulness of these Graforel letters when one has to turn out a big scheme for public inspection is obvious, though there will be only a limited future for those who stick them on drawings that have to be rolled. Sensibly made from cork, they will take practically any conceivable ink or paint, and their backs are already gummed, so that, unless you do your rendered perspectives on sheets of glass, you will have no more worries about making them stick. Before ASTRAGAL goes out to burn his stencils there is one further observation to make: Graforel advertise north points as well as lettering, but isn't it time that someone made a magnetic north point that always pointed true and saved one the bother of orienting the drawing?

PICCADILLY POTTAGE

Bombs were, architecturally, the most impartial of objects. Not least the one on St. James', Piccadilly. It destroyed the most charming of rectories and the most pretentious of gateways. It has, in the end, given us a most successful and even magnificent piece of restoration, all but ruined by the most abominable of light fittings—lamp-posts or whatever you call them—stuck among the pews. That, however, is not all that

> A night view of the new residence for the High Commissioner of Colombo, Ceylon, designed by the Chief Architects' Division, MOW and praised by ASTRAGAL on page 271. Some of the specially designed furniture for the Residence was shown in the JOURNAL of December 17, 1953.



St. James', Piccadilly, magnificently restored by Professor A. E. Richardson, showing the new standard lamps, to the design of which ASTRAGAL strongly objects. See this page.

the bomb gave, and we look forward to the disappearance of the Yardley Lavender poster hoarding—infinitely more distasteful in its way than the more robust Esso and Windsmoor nonsense

across the street. We also await with trepidation the new iron railings for the church—the drawings are not promising —and the new steeple. A Richardson steeple on a Wren church! After the





A Green Thought in a Green Shade

A new statue in a Royal Park is a rare occurrence and deserves attention. This bronze fountain in Green Park, a stones' throw from Piccadilly, was presented to the MOW by the Constance Fund, and officially accepted by Sir David Eccles in July of this year. It is the result of a competition; six sculptors were invited by the Constance Fund (a fund formed in memory of Sigismund Goetze, artist, to promote the art of sculpture) to submit designs under the title: "Diana of the Treetops." This winning, but nevertheless, in our opinion, most inadequate, design is by Estcourt J. Clack. The top part is in bronze and depicts Diana unleashing a hound on top of three spiralling "cactus forms." Three gilded "flowers" void trickles of water into three basins, while, in the centre of the bronze branches, rises a very fine spray to damp Diana's feet. The banality and

immaturity of the design is most obvious in the treatment of the polished Cornish granite base. Diana herself, though depicted in a style of beauty somewhat reminiscent of trademarks for cosmetics, has at least the evocative charm of nakedness. The cacti, three times the size and without the flowers would have a certain expressive forcefulness. But no praise can be given to the triple drinking fountain, triple dog's bowl and triple washbasin which form the base. The purpose of a fountain, surely, besides providing a drink, is to please the ear with the sound of running water and delight the eye with movement, reflection, and shimmer. As the water in the waist-high basins and the accompanying trickle is almost invisible and inaudible from a few yards, this design has none of the essential qualities of a fountain and scarcely merits the title.

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THE ARCHITECTS' JOURNAL for September 2, 1954 [275

failure of the light fittings let us hope the Professor tempers his personal design sense and relies on Wren's.

CHEAP LABOUR

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ASTRAGAL rarely reads the advertisements for jobs with Dominion governments overseas with the same microscopic attention as he did in the days of post-qualification penury. One could hardly be unaware, though, after glancing at *The Times* during the last month or two, that Canada is in the market for town-planners—presumably in connection with the St. Lawrence seaway project. And salaries quoted in dollars always have a tempting look, so that one has thought " not a bad job for a youngster."

But certain sections in Canada haven't seen it that way, and the Brantford *Expositor* carried a sharp editorial, which a friend kindly clipped out, pointing out that the money offered—3,600 dollars p.a., to start with—was less than the average weekly earnings of a Canadian plumber or brickie, and as good as accused the Department of Labour of sharp practice.

There's more to it than that though. This wage is offered for men between 35 and 45 years of age, and if one allows, say, two dollars eighty to the pound, it is barely as much as many planning assistants would be getting over here at that age, ignoring for the moment the fact that the cost of living in Canada is about twice what it is here. So remember, young—no, middle-aged—men, before going west ask to see the colour of their money, and then consult a conversion table before you sign anything.

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Designers, magazine editors and store managers who now flinch at he word "contemporary" as being un-modish and inexact will probably welcome the suggestion of a newspaper correspondent who puts forward the claims of "Mid-Century." ASTRAGAL prophesises some success for this adjective as being stimulating, reasonably precise, and, best of all, limited in life . . . say until 1960.

But what ASTRAGAL really looks forward to, of course, is the "fin-de-siecle" period. What will it bring this time?

ASTRAGAL

POINTS FROM THIS ISSUE

Results of Irish Church and Indian Hospital Competitions pages 276 and 277

The Editors

PRIVATE WORK BAN FOR PUBLIC ARCHITECTS

S HOULD architects employed by local authorities be allowed to run private practices in their spare time? The issue is raised by the recent decision of the Hastings Council, as reported in the *News Chronicle*, for July 30, to forbid its architects to prepare plans for private clients. The *News Chronicle* quoted a councillor as saying: "so many private plans were being prepared by council employees that architects in private practice were becoming alarmed." That is not, of course, the best reason for banning private work by public architects, although it is no doubt considered adequate enough by private architects.

The difficulty in this kind of issue is to ensure that there is a dividing line between enterprise and initiative on the one hand, and abuse of privilege on the other. There are two obvious reasons why an architect in a local authority should not practise privately. Firstly, however well intentioned he may be at the start, he will not always be able to keep his two practices apart in terms of office hours. Inevitably his spare time work will encroach on the other, unless all his work is given him by "spare time" clients. Secondly, such dual work, which will inevitably mean part or whole responsibility for public and private finance, lays him open to charges of unprofessional conduct, however upright he might in fact be.

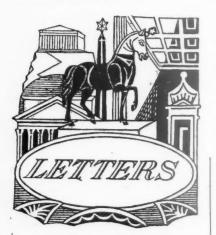
On the other hand, there is considerable sympathy to be felt for the keen assistant eager to carve a career. If he is prepared to give the hours to architectural practice which his fellow assistants give to idle amusement why should he not profit from it? Are not these the type of go-ahead architects the country needs? The answer, although George Schwartz might not agree, is surely no. [•] If he worked a night shift in a factory or sold newspapers or fish and chips, well and good, provided his health did not suffer. As a professional man, however, responsible for other people's money, it is impossible for him to undertake the dual role of whole-time public office and private practice and be truly loyal to both.

The position of the assistant in a private office is similar. He, too, should not attempt to run his own, even embryonic, practice. He, too, cannot serve two masters.

All this may seem somewhat idealistic and very hard on the junior with guts and enterprise. But it is the burden the professional man should carry. What one should look for, in Hastings and in all offices, public or private, where such 276] THE ARCHITECTS' JOURNAL for September 2, 1954

"homework" is undertaken, is the cause of such behaviour. Inevitably it is due to frustration in some form. The salaried man has realised that it is no use putting extra energy into his job because there is no foreseeable return for it. It is essential, if, through the necessity of preserving "professional status," private work is forbidden, that offices have some form of incentive scheme-payment by results scheme, call it what you will-of greater effect than the certainty of a gold watch after forty years of scrupulous time-keeping.

The more go-ahead private offices have realised this. The bonus and the proffered partnership, properly handled, readily absorbs surplus energy. In official offices such incentives do not exist. Too many offices have achieved reputations for good design through the penurious grind of a few dedicated architectural idealists. And too many local authoritiesparticularly in rural areas-shut their eyes to private work because it enables them to underpay assistant surveyors and architects. If a profession expects from its members the virtues inherent in the term " professional conduct," it should do all that it can to ensure working conditions which do not put an unnecessary strain upon the individual's moral rectitude.



" Spec." Building

SIR,—Further to recent correspondence in connection with speculative building, I would say that I have sought an interview with my Member of Parliament on this import-ant matter. He has agreed to put the case before the Minister of Housing and Local Government Government.

If my brother architects adopted a similar measure, when necessary combining them-selves into deputations, I feel sure that some steps would be taken to promote an im-proved quality of house design and construction.

ALBERT G. GATES,

Essex.

SIR,-I am certain that this correspond-ence in which we are all saying "Heigh! ence in which we are all saying "Heigh! Why don't you buy your apples from our stall" is ridiculous. We have a body to which we all owe allegiance, but we are surely entitled to say to the RIBA "Come on RIBA—you are in this you know—what is your suggestion for handling this prob-lem."? Let us go into a huddle and decide our own quiet and effective action, not go

Albert G. Gates, A.R.I.B.A. J. E. Jackson, A.R.I.B.A. Eric Bellingham Director-General, Coal Utilisation Council A. Roscoe-Hudson, A.R.I.B.A.

crying to Big Business—they are interested in money and as every lay person thinks we are an expensive luxury what is the use of saying "Buy your apples from our Stall, they won't cost you much more"—its got to be "We can prove to you they'll be cheaper."

Folkestone.

J. E. JACKSON.

Not to be Built-By Order

SIR,-When I saw the above words in a recent issue of your JOURNAL, underneath the reproduction of a drawing showing a house with only one flue, and that one on an external wall, I had a moment of elation in which I thought that my campaign against such methods of construction had borne practical fruit.

On reading further I saw that the ground on which the design had been rejected was that the house was "far too modern." I hope that no one really thinks that it is modern" to provide such a wasteful method of heating.

London.

ERIC BELLINGHAM.

SIR,-On opening the JOURNAL for August 19 I was amazed to see the design under the title "Not To Be Built—By Order." I must say I am very pleased to see your editorial attacking the building societies be-cause the design shown is, with all due respect to its designer, a nice, neat and very unoffensive design in fact I am at very unoffensive design, in fact I am at

a complete loss to understand how it was turned down.

It may be that the FRIBA in question got out of bed the wrong side, and I should like to ask him what his reaction would be if he had been approached with the design for the Health Centre shown on page 219 of the same JOURNAL and designed by the Nuffield Foundation. Would he have said "far too modern . . . good of its kind but discordant with its surroundings"

It seems that we are all going round in circles and some good sound legislation is required. A. ROSCOE-HUDSON,

Oxford.



Hospital for New Delhi

In a competition for an All-India Institute of Medical Sciences open to all architects

of Medical Sciences open to all architects practising in India, the first prize has been awarded to H. J. Brown and L. C. Moulin, in association with A. H. Antrum. The building is a teaching hospital, with 650 beds, which will cost £1,290,000. The assessors were Walter George, F.R.I.B.A., of New Delhi, and Paul Jeanneret. It is hoped to illustrate the winning design shortly. shortly.

Church in Ireland

T. J. Ryan was awarded the first premium in the design competition for the new in the design competition for the new Church of the Immaculate Virgin Mary of the Miraculous Medal, Clonskeagh, Co. Dublin. F. J. Barry received the second premium, the third went to F. Rogerson, and the fourth to Messrs. O'Brien, Morris & McCullough. Designs by the following were commended:—H. P. Banahan, S. Rothery, Peppard and Duffy, Hooper and Mayne, McCarthy and Feeney and Robin-son, Keefe and Devane. There were 102 entries. The assessors were:—G. Mc-Nicholl (chairman), N. Montgomery, and F. Gibney. They were assisted in adjudi-F. Gibney. They were assisted in adjudi-cating the designs by the Very Rev. W. J. Fitzpatrick.

The assessors made the following statement on the general standard and design of the entries

One hundred and two designs were One hundred and two designs were received and examined by the assessors. Presentation and draughtsmanship were generally excellent. Many of the un-premiated schemes are imaginative, ingen-ious and have great architectural quality, but a large number of competitors failed to reduce terms a ning a simple plicate design Altar factori provide dation maxim many not be It is l shortly

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reduce the design problem to its simplest terms and instead of solving it created plan-ning and constructional difficulties. Many ning and constructional difficulties. Many simple ground plans were developed in com-plicated and unworkable sections. The design and relative disposition of the Shrine Altar does not seem to have been satis-factorily solved. Competitors tended to provide something less than the accommo-dation required, perhaps to keep within the maximum cost allowed. As against that, many of the more ambitious schemes could not be built for the required figure. It is hoped to illustrate the winning designe

It is hoped to illustrate the winning designs shortly in the JOURNAL.

Town Hall for Montrose

The Corporation of Montrose is to invite architects to submit plans and estimates for their new Town Hall to be erected to replace the former one burned down 17 years ago.

Professor R. H. Matthew, C.B.E., A.R.I.B.A., of the University of Edinburgh, has been appointed assessor.

SAO PAULO Architectural Schools Competition

The entries for a second international com-petition open to all Schools of Architecture will form the exhibits in an international Exhibit.on of Architecture at the Third Biennial of the Sao Paulo Museum of Modern Art. Schools entering can present only one design, the subject for which is: "a resting place fit to accommodate 3,000 workmen during their holidays." The assessors will be architects and representa-tives of the Sao Paulo Museum of Modern Art. The closing date is May 30, 1955. Prizes total 200,000 cruzeiros (172 cruzeiros, approximately, to the pound sterling). Further information and entry forms can be obtained from: Secretaria da Bienal do Museu de Arte Moderna de Sao Paulo, Rua 7 de Abril, 230, Sao Paulo, Brazil.

MOHLG

New Members of Advisory Committee

Lommutuee Harold Macmillan has appointed three new members to the Committee which ad-vises him on matters concerning buildings of special architectural and historic interest. Professor Sir William Holford is chairman of the Committee and the new members are Lord Euston, J. D. K. Lloyd and W. A. Eden. Lord Euston is deputy chairman of the SPAB and is a member of the Historic Buildings Council for England. Mr. Lloyd was secretary of the CPRW for many years and is now a member of the Historic Buildings Sec-tion of the LCC and is a lecturer in the his-tory of architecture in England at University tory of architecture in England at University College, London.

RIBA

Conference on Design of Health Buildings

A two-day Conference on the Design of Health Buildings is to be held at the Royal Institute of British Architects on October 21 and 22, 1954. The conference is open to members of the Royal Institute of British Architects who apply in advance for tickets. Tickets costs 10s. each which includes morning coffee and tea on both days, programmes and advance copies of the conference papers. The following are the arrangements for

The following are the arrangements for the four sessions into which the conference will be divided: THURSDAY, OCTOBER 21, 1954 Morning Session, 10.30 a.m. Mr. C. H. Aslin, President, RIBA, in the chair. Opening address by the Minister of Health, the Rt. Hon. Iain Macleod, M.P. The Organization of the Health Service in relation to the Provision of Health Buildings: Sir John Charles, Chief Medical Officer, Ministry of Health. Alternoon Session, 2 p.m. Mr. J. H. Forshaw in the chair. Papers dealing with the General Design

Papers dealing with the General Design

Problems of the Hospital from the Archi-tectural Point of View by: Mr. R. Llewelyn Davies, Director, Division

of Architectural Studies, The Nuffield

of Architectural Studies, The Nuffield Foundation. Mr. M. E. Molander, Director, The Cen-tral Hospital Planning Bureau, Sweden. FRIDAY, OCTOBER 22, 1954 Morning Session, 10.30 a.m. Mr. Maxwell C. Tebbitt in the chair. A paper dealing with the Hospital from the Nursing Point of View by: Miss T. Turner of the Royal College of Nursing, Birmingham. A paper dealing with the Hospital from the Medical Point of View by: Mr. J. O. F. Davies, Senior Administrative Medical Officer, Oxford Regional Hospital Board. Board.

Afternoon Session, 2 p.m. Mr. Donald A. Goldfinch in the chair. Mr. Donald A. Goldfinch, Architect to the

Birmingham Regional Hospital Board, will sum up the papers given during the pre-vious sessions and this will be followed by a general discussion.

a general discussion. It will greatly assist the organization of the conference if members of the RIBA will apply for tickets as soon as possible. Applications (enclosing cheque or postal order) should be addressed to the Secretary, RIBA, 66, Portland Place, London, W.1. Envelopes should be marked "Hospitals Conference" in the top left-hand corner.

DILAIRY

LCC Open-Air Sculpture Exhibition. Holland Park. Daily, including Sundayr. 10 a.m. until dusk. UNTIL END OF SEPTEMBER.

Current American Practice in Heating, Ventilating and Air Conditioning. Paper to be presented by John K. M. Pryke at a special meeting of the IHVE. At the Lecture Hall of the IME, 1, Birdcage Walk, S.W.1. 6 p.m. SEPTEMBER 14

Conference on the Design of Health Buildings. At the RIBA, 66, Portland Place, W.1. Tickets 10s. each.

OCTOBER 21 TO 22

NEW PRINTING WORKS FOR BANK OF ENGLAND, DEBDEN, ESSEX

On this and the following four pages we illustrate the structural techniques being employed in the construction of the new printing works for the Bank of England at Debden, Essex. The architects are Easton and Robertson, the consulting engineers for the structure are Ove Arup and Partners and the Contractors are Sir Robert McAlpine & Sons Ltd. The main building is 800 ft. long and has

a maximum width of of 300 ft. Construction began in June, 1953. The perspective, right, (Architectural Review, January, '54) shows how the building will look when complete. The arched shape of the roof was chosen partly on aesthetic grounds, partly to ensure a good daylight factor and partly to make use of the advantage of the economies of the arch form in concrete. In



the foreground of the perspective is a smaller production hall on which construction has not yet started. The end walls and the office blocks will be of brick, with Portland stone dressings. The standard of finish of the concrete, whether precast or in situ, is very high, due to careful concreting and the copious use of resin-bonded plywood shuttering.

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BANK OF ENGLAND PRINTING WORKS (continued)



main printing hall

Above, the interior of the main printing hall of the Bank of England Printing Works, Debden, now under construction. It consists of twenty-two bays each 36 ft. long, the span being 125 ft. Each bay consists of a pair of prestressed arched beams connected by north-light concrete shells spanning between them. The bays are 3 ft. 6 in. apart, and this gap between the arched beams is used as ventilation and service ducts and as expansion ioints. Warmed air will be pumped into the hall from between the pairs of arch legs, and extracted through the holes to be seen at the ends of the north light shells into an extract duct within the space between the arches. The centrally-pivoted windows are lockable, and are cleaned only from the outside. Running the length of each side of the hall at the springing of the arch is an observation gallery. The fluted fronts of these were precast on teak shutters. The floor of the hall is of flat slab construction, 15 in. thick, supported on columns in bays of 18 ft. by 19 ft. from a lower floor containing service ducts, heating and electrical plant, lavatories, cloakrooms and workshops. The floor finish of the main hall will be wood blocks.

casting the main arches

The 125-ft. arches of the main hall were cast in segments. The

legs of the arches were cast in situ, and the centre of the arch in units of about 5 tons weight. This operation is shown above opposite. On the left is an arch-centre already poured. It is not possible to distinguish the separate units, but the reinforcing bars which will tie the arch to the in situ-cast north light shells can be plainly seen. In the foreground are the ducts in which the tensioning wires will run to tie all the units together.

erection of main arches

The precast segments, below opposite, waiting to be lifted onto the centering. By casting these units on a flat bed good control of the concrete pouring was obtained, together with accurate placing of duct tubes and fixings for mechanical equipment. Some of the fixings can be seen on the units. In the background, centre, are the in situ-cast legs of a pair of arches, and, on the left, part of the gantry which, with centering for the 125-ft. arches at each end, and the shuttering for the shell roofs in the middle, spanning from arched beam to arched beam, moves on rails down the 800 ft. length of the hall. The shell roof shuttering can be raised and lowered by winches within the main frame of the gantry. A five-ton derrick with 120-ft. jib handles the precast elements.

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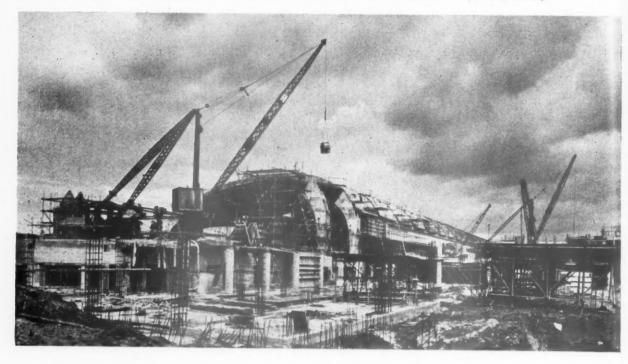


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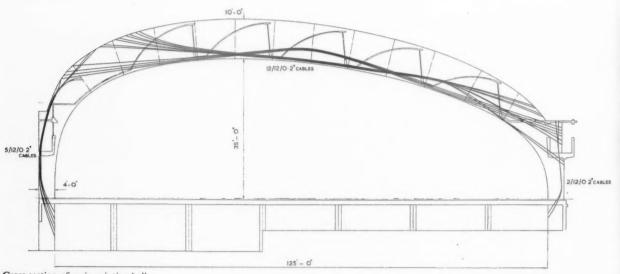
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BANK OF ENGLAND PRINTING WORKS (continued)



the building under construction

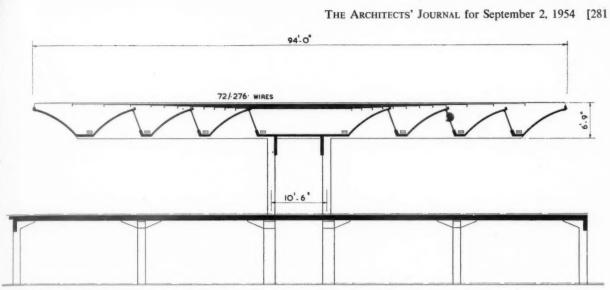
A progress photograph showing the main printing hall under construction. The crane is lifting concrete for casting the in situ north-light shells which will tie together the inner two of the four arched beams shown in the centre of the photograph. These beams consist, as explained above, of separate unitsor segments—for the centre portion which are formed into a continuous structure by being tied together under the Freyssinet system of prestressing which also reduces the tie force acting at floor level on the arch and, in consequence, the bending moments in the legs of the arch. The position of these prestressing cables is shown in the cross section below.



Cross section of main printing hall

the general printing hall

South of the main printing hall is a general printing hall, and south of this again is a block of offices and laboratories. It was thought necessary to provide expansion joints between these three blocks. To reduce the number of columns and avoid the alternative of a roller bearing on the flanking structures, the roof of the general printing hall was designed as a balanced cantilever, see section above, opposite page. These cantilevers were preCross se stressed which a see belo each ba series a therefo The 6 Gifford stressed There shells a tran



Cross section of general printing hall

stressed to limit the deflexion and to reduce the thickness of beam which could have been required in reinforced concrete. The roof, see below, is 100 ft. wide. It consists of four free standing bays, each bay being made up of four cantilever beams spanned by a series of three 24 ft. long north-light shell roofs. Each bay is therefore 72 ft. by 100 ft. The shells weigh 5 tons and are precast. The 6 ft. 9 in. deep beams are cast in situ and prestressed on the Gifford-Udall-CCL system. When cast, but before being stressed, the precast shells are placed between the four beams. There are 8 shells between each pair of beams. When all 24 shells in the bay are in position, the whole roof is prestressed in a transverse direction, i.e., along the shells and through the beams, with six wires to each shell. When the shells have been stressed and the loading of the beams provided, the beams are prestressed. On the right of the photograph is the roof of the main hall. The pairs of arched beams have been roofed with copper, the shells covered with 3-ply bituminous felt. On the left is a floor of the office block. This has floor spans of from 24 ft to 30 ft. The floor slabs consist of L-shaped beams 15 in. deep at 2-ft. centres covered with a 3-in. slab. There are service holes cast in horizontally and vertically at frequent intervals. The horizontal arm of one L rests on a recess in the horizontal arm of the next. These ribs span on to a 21-ft. deep edge beam supported by columns at 12 ft. or 6 ft. centres.



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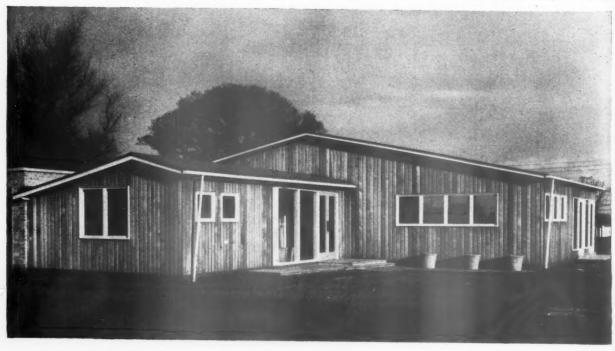
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PRIMARY SCHOOL

at FORD, near SHREWSBURY for the Shropshire County Council designed by C. H. SIMMONS, county architect chief assistant, R. BOOTH, assistant architect, G. CHAMBERLAIN consulting engineers, OVE ARUP and PARTNERS

The new primary school in the village of Ford, at the foot of the Breiddon Hills, replaces an old school built during the latter part of the last century. The first phase only, consisting of two classrooms, boiler house, lavatories and staff room, has so far been built. Both the planning and construction have been in the nature of an experiment as the clients, the County Education Authority, wished to bring the ablution and cloakroom facilities into the classrooms, within the control and supervision of the teacher.

Phase I of the school from the south.



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Above, classrooms 3 and 4 from the east. Right, the entrance and hall of phase 1 of the school.

PLAN.—As will be seen from the plan above, a future extension consisting of two additional classrooms, an assembly hall and kitchen, are to be added to the west of the present building and the present entrance hall will become a corridor leading to the future entrance, which will be basically part of the assembly hall. Classroom furniture has been designed to be as flexible as possible, with cupboards and shelving as separate units, capable of being arranged in different ways. Cloak racks are also designed as movable trolleys within the classrooms. By this method a saving in circulation space has been made and there is more usable space in classrooms.

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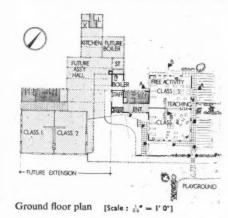
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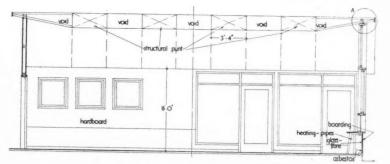
south.

CONSTRUCTION .- The architects chose timber as a cheap and suitable material for the school, in view of the MOE cost limit in force at the time, and stocks of red cedar board were reserved at a local merchant at the sketch design stage. Cedar clapboards on studding with vertical damp-proof membrane, aluminium foil sheathing and fibreboard linings provide load-bearing external walls with a thermal value greater than for 11-in. cavity brickwork. A simple concrete floor slab carries the superstructure along its edge. Roofs, which were erected complete in three days, consist of the " punt" system of construction adapted for the roof pitch used here. The parallel system of plywood " punts " spans from apex to eaves and the alternating spaces between them, which carry conduits have similar soffits of perforated hardboard.

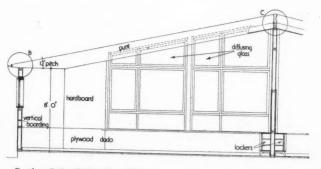
FINISHES.—The tall windows which occur on the east side have the upper parts glazed in ply-glass to eliminate morning glare in summer, and the sills are low enough to allow little children to look out. One







Section A-A (for details A, B and C, see overleaf)



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

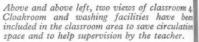


PRIMARY SCHOOL at FORD, near SHREWSBURY designed by C. H. SIMMONS county architect

of these windows was illustrated as a Working Detail in the JOURNAL of March 25, 1954. Colours used in the interior are carefully chosen to form a background to the cupboard and shelf units, which are painted in a series of colours, including turquoise and coral. The floor finish is dark brown plastic tiles. In spite of the large areas of glazing in the classrooms the combination of perforated hardboard ceilings and fibreboard for the upper parts of the walls has produced a good acoustic quality.

The contract price was £7,011. Cost per foot cube, 3s. 5d., and per ft. sq. 53s. 8¹/₄d. nett. The general contractors were Shrewsbury Building Contractors Ltd. For sub-contractors see page 300.





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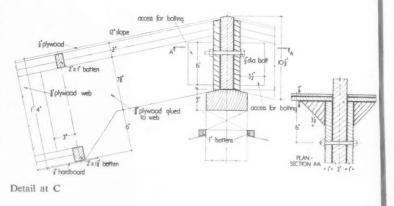
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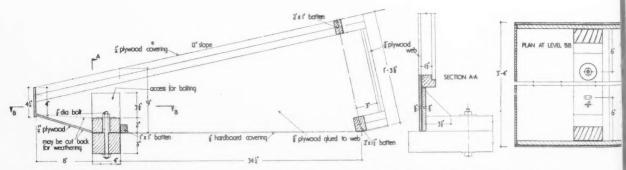
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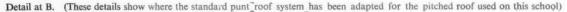
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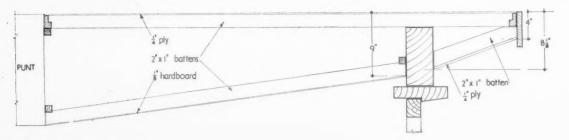
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Detail at A [Scale : I" == 1' 0']

The Architects' Journal for September 2, 1954 [285

FACTORY

in CAXTON WAY, STEVENAGE, HERTS for the STEVENAGE DEVELOPMENT CORPORATION designed by CLIFFORD HOLLIDAY, formerly chief architect L. G. VINCENT, deputy chief architect L. W. AKED, group leader, R. E. OWEN, assistant architect consultants, reinforced concrete, TRUSSED CONCRETE STEEL CO. quantity surveyors, GARDINER and THEOBALD

This standard factory on the industrial estate at Stevenage was designed for Samson, Clark & Co. Ltd., who are printers of advertising material and magazines. The site chosen had to be reasonably flat as the entire production must be on one level and also be large enough to take a 60 per cent. future expansion. The factory has a production staff of 60 and an administrative staff of 10.



The office entrance and loading bay on the right.

The administration block, which faces Caxton Way.

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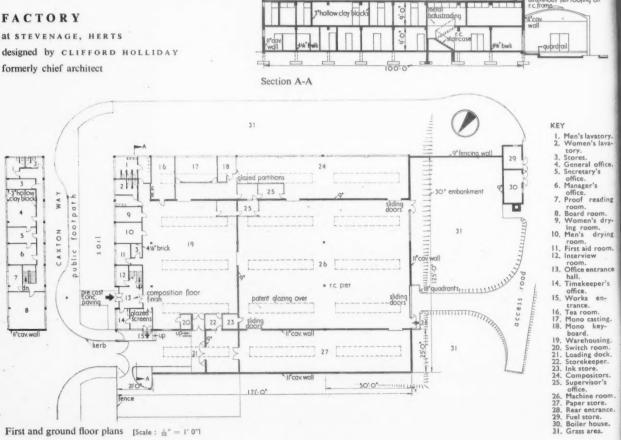
Above, of the part main production area, which has concrete barrel vaults sprayed on the under side with asbestos to avoid condensation. There is a production area of 20,000 sq. ft. and an administration area of 4,000 sq. ft. Both areas are heated by radiators placed under windows and there are high level unit heaters in the production area, as described in the text. Left, office entrance hall. GENERAL .- The tenants had certain special requirements, which the architects had to solve in the design of the factory. (a) the complete avoid. ance of condensation, which would ruin expensive printed work. This was achieved by an absorbent blanket of asbestos spray on concrete soffits and warm air from hot-water unit heaters being blown along glass surfaces of skylights. (b) an even humidity in the production area and paper store, to avoid movement of paper in the machines. Identical heating and extracting plant is provided throughout, with the unit heaters blowing air down the length of the barrel vault roof in the production area. The air is extracted through the barrel by fans and isolating lobbies are provided to the loading bays. (c) good daylighting with some sunlight allowed. Aluminium skylights were found to be the most economical solution, the size adjusted to give the correct level of lighting. Decorations light in tone were chosen throughout. (d) the plan had to be adaptable. Partitions are built up off the floor slabs. Office block window mullions are at 3 ft. centres to receive partitions, with a steel filler plate between mullion and partition. The contract price was £58,500, at a cost of 2s. 7[§]d. per ft. cube and 49s. Id. per ft. sq. The general contractors were Gilbert-Ash Ltd. For sub-contractors see page 300.

ous felt roofing on

FACTORY at STEVENAGE, HERTS designed by CLIFFORD HOLLIDAY

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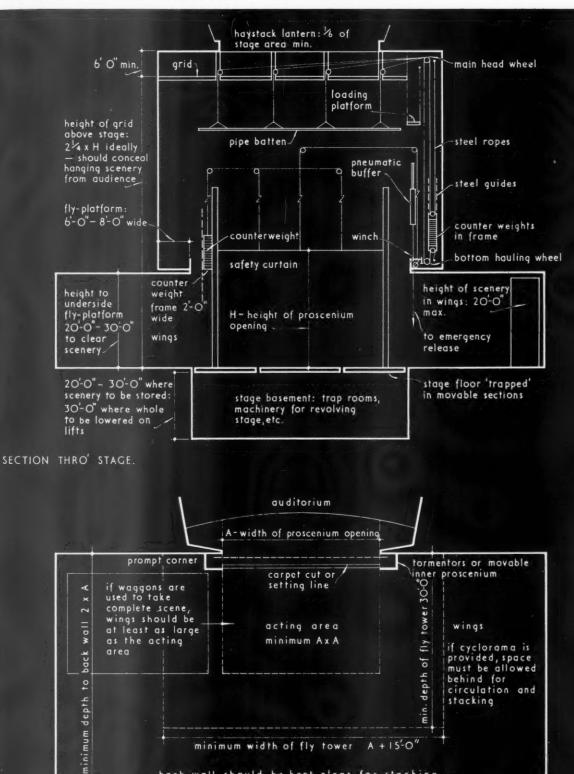




DESIGN DATA ENTERTAINMENT THEATRES

Architects' Journal 2.9.5

The Architects' Journal Library of Information Sheets. 483. Editor: Cotterell Butler, A.R.I.B.A.



ideal total width of stage $3 \times A + 12' - O''$ to allow for waggons minimum " " A + 2O' - O'' for normal theatres

back wall should be kept clear for stacking

PLAN OF STAGE.

4.LA STAGE PLANNING

This Sheet, one of a series on the planning of theatres, is intended to cover some general aspects of stage planning. For detailed technical information reference should be made to the publications given at the end of the Sheet.

Key Dimensions

The main dimensions given in the diagrams on the face of the Sheet serve as a rough guide. They will vary according to the requirements of any specific project and the space available on the site.

It is important to provide as much space as possible on the stage for the handling of bulky scenery during the performance: in practice, there is very seldom sufficient.

Planning Considerations

The following points must be considered if any theatre is to be planned to work efficiently.

Scene-shifting: This is basically simple: scenery such as "flats" and "cloths," which are parallel to the proscenium, are "flown" or hoisted into the stage roof by means of counterweights (see drawing at top of face of Sheet). Scenery that cannot be thus disposed of is shifted, either mechanically or by hand, to the sides, the back or beneath the stage. The space in all cases must be adequate and of the correct proportions, so that the scene shift does not become involved, slow or noisy, or in any way interfere with the continuity of the performance. Stage direction: Another important requirement in planning is the provision of sufficient space for stage direction. This is usually arranged in the prompt corner, immediately inside the proscenium on the left of the stage. It is very important that the stage director should have a complete view of the stage which he controls and immediate contact with all the chief technicians. This involves the accommodation of a considerable amount of machinery (amplifying apparatus for reproduction of sound effects, cue system, system for signalling technicians, etc.) and necessitates a position convenient for handling scene shifts and checking on actors and properties.

The stage director's work has grown in importance with the increase in technical efficiency, and it is impossible to control a modern stage where space is cramped: the older theatres seldom provide adequate facilities.

Forestage: Where a forestage is required, the planning of the stage and auditorium will be affected from the beginning, in particular with regard to the placing of the stage director and the chief electrician.

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Stage Planning by Marshall, Bell and Leacroft (Muller).

Theatres and Auditoriums by Meyer and Cole (Reinhardt).

Scenery for the Theatre by Meyer and Cole (Harrap). Prosceniums and Sight-lines by R. Southern (Faber). Stage Setting by R. Southern (Faber). Changeable Scenery by R. Southern (Faber).

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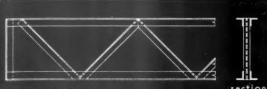


Architects' Journal 2.9.54

FLOOR AND ROOF STRUCTURAL ELEMENTS STEEL

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The Architects' Journal Library of Information Sheets 484. Editor: Cotterell Butler, A.R.I.B.A.



WELDED (W) TYPE.





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HIGH - TENSILE (H.T.) TYPE.

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			1		3.22	3.46	3.30	3.14	3.00	2.80	2.65	2.54	2.32		
					4.05	4.05	4.00	3.85	3.57	3.36	3.16	3.00	2.83		
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WELDED TYPE.

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	н				6.50	6.42	6.30	6.19	6.00	5.81	5.68	5.50	5.34	5.18	4.81
H.T.38	L			3.04	3.01	2.97	2.88	2.80	2.71	2.63	2.57	2.51	2 4 5	2.39	1.52
	м			4 2 3	4-13	4 09	4.00	3 87	3-77	3.63	3-54	3-42	3.32	3 22	2.95
	н				7.10	7.07	7.00	6.91	6.80	6.63	6.50	6.30	6.16	6.00	5.60

HIGH-TENSILE RIVETED TYPE.

note: loads have been reduced so that deflection is not greater than 1/325 of the span

SOMMERFELDS STEEL LATTICE BEAMS : GENERAL DATA. Compiled by R.A.Sefton Jenkins B.Sc., A.C.G.I., A.M.I.Struct.E., AM.I.C.E., consulting engineer, in collaboration with O. Schalscha, Technical Director of Sommarfolds. Ltd.

20.C10 · SOMMERFELDS · STEEL LATTICE BEAMS : GENERAL DATA

This Sheet is one of a series dealing with structural components fabricated from light steel sections, and supersedes Sheet 20.C10, published 3.4.52. It describes two ranges of lattice beams, one of welded mild steel construction (W) and one of riveted high-tensile steel construction (H.T). The tables on the face of the Sheet give the safe distributed loads for each type and size of beam.

Design and Construction

W (welded) range: These beams are intended for short roof and floor spans. They are of all-welded construction, using mild steel sections. The top boom consists of two angles and the bottom boom is normally also of two angles but may be a single flat where beams are exposed or where dictated by architectural requirements.

H.T (high-tensile) range : These are of riveted construction, the sections being made from high-tensile steel. The top and bottom booms are each composed of two angles. The diagonals are single angles, the flanges of which are squeezed together at the ends to allow them to pass between the angles forming the booms. The material has greater strength than steel to BS. 548 : 1934 High Tensile structural steel for bridges etc. and general building construction. In calculating the design loads, however, the stresses for steel complying with BS. 548, given in BS. 449:1948 The use of structural steel in building, have been used.

All beams are designed with a slight upward camber to counteract the natural deflection of the beam.

Sizes and Types

The standard depths of beams are:---

W (welded) type: 6 in. to 16 in. in 2-in. increments. H.T (high-tensile) type: 20 in. to 38 in. in 6-in. increments.

Other depths can be specially fabricated. Lengths of beams are as required. Each size of beam is made for three loading capacities, L (light), M (medium) and H (heavy).

Use of Tables

The loads are in tons and are the safe, uniformlydistributed loads that the given beam can carry for the span shown. If point-loads are applied to the beams (by purlins, for example) at the node points, a slightly greater total load can be carried. Where the deflection of the beam would otherwise be critical, the safe loads have been reduced so that the deflection is not greater than 1/325 of the span.

Note: For maximum loads provision should be made for supporting the beams laterally at approximately 4 ft. 0 in. centres. This can often be done by ensuring that the decking or purlins are adequately fixed to the beams.

Applications

The beams are suitable for all types of floor and flat roof construction. Typical applications are given on Sheet 20.C13.

For the present practice of using prefabricated roofing units which span directly between supporting members, lattice beams may be used for spans up to 50 ft. Where r.s.j.'s or channels are used for supporting the roofing units, it has been found that, though adequate for flexural rigidity, they are generally heavier than required for countering the maximum bending moment. A specially-designed lattice beam can obviate this disadvantage.

Trusses formed by two lattice beams acting as rafters with horizontal tie-bars can produce one of the cheapest forms of pitched roof construction. Further details of this application can be obtained from the manufacturer.

Finish

In addition to the normal steelwork finishes, e.g., red oxide on wire-brushed steel, special finishes are available.

Ordering

The following information should accompany orders for lattice beams:----

- (a) Overall length of beams
- (b) Load and type (uniformly-distributed, point, etc.)
- (c) Details of end fixing
- (d) Detail of roof overhang (if any)
- (e) Application for which beams are required

Further Information

The manufacturer designs structural steelwork of all types and can advise as to whether a lattice-beam or traditional structure would be more economical in any particular case.

Compiled from information supplied by: Sommerfelds Ltd.

> Address : Wellington, Shropshire. Telephone : Wellington 1000 (5 lines). London Office : 167, Victoria Street, S.W.1. Telephone : Victoria 1000 and 8843.

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FACTORY

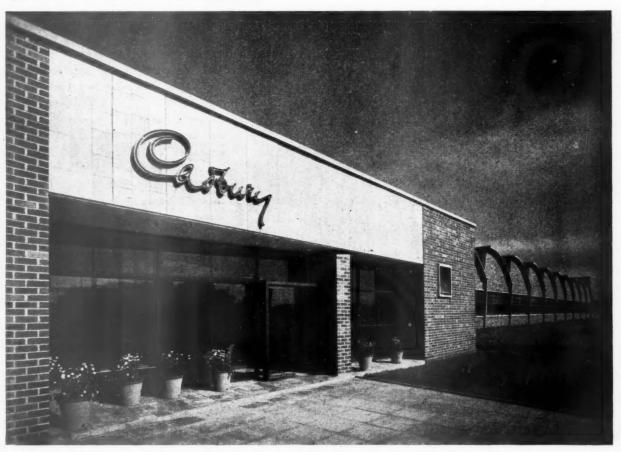
at MORETON, WIRRAL, CHESHIRE designed by C. J. WILKINSON assistant architects, J. M. MURTAGH and J. C. HOLT landscape consultant, G. A. JELLICOE

This new factory for Cadbury Bros. Ltd., designed by their staff architect, provides a single-storey building for the production of chocolate biscuits and two-storey storage accommodation for raw materials and finished stock. The factory employs 450 men and women, with an eventual capacity for 600 employees in the existing buildings. The total floor area is 220,000 sq. ft. The site is on the north side of the Wirral Electric Railway.



Gate keeper's lodge.

Office entrance at the north-west corner of the main building.



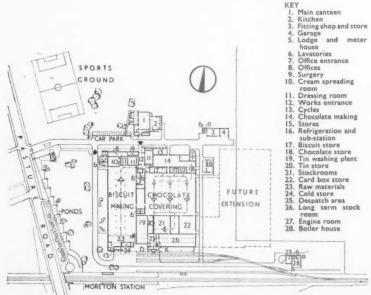


Above, the western edge of the site which is laid out with pends and cascades of water following the fall of the site from south to north.

FACTORY

at MORETON, CHESHIRE designed by C. J. WILKINSON

SITE .- The natural fall of the site is from the railway, northwards towards the River Birket, with a drop of 10 to 12 ft. The north side of the site is low lying and the ground was marshy, requiring extensive site levelling to provide a level platform for the main factory buildings above the highest known flood level, and then to grade the land towards the river, into which all surface water is discharged. The west portion of the site, seen in the photograph above, has been designed by the landscape consultant and includes a series of ponds and cascades

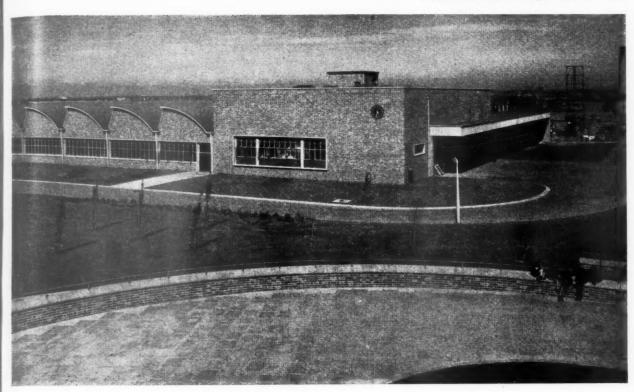


down from south to north. The water is kept in constant circulation by a pump in the lodge building. To the north of the factory approach road the ground is to be kept permanently for playing fields and recreation.

PLAN .- The production areas are mainly single storey north light structures and other departments are contained in flat roofed, framed buildings, with top light wherever possible. Delivery of raw materials and despatch of finished goods is at present by road vehicles from the loading deck on the south road. Later a rail siding will be built. On arrival, raw materials are taken up to first floor level by lift and are fed by gravity to the mixing machines in the biscuit making area. Baking takes place in continuous ovens which extend from south to north of this area. Uncovered biscuits then pass through the biscuit stores to the chocolate covering room. On completion of cooling and packing the finished goods proceed to the stockrooms and are subsequently despatched from the east end of the loading deck.

CONSTRUCTION .--- Most of the buildings are of reinforced concrete frame construction, with nonload bearing brick external walls. The main production areas are roofed with north light r.c. barrel vaults. Spans average 40 ft. and the chord width is a standard 28 ft. 6 in. External brick panel walls and north to south internal walls are generally

of 131walls an r.c. floo continu free fro load-be The ge Ltd. 1



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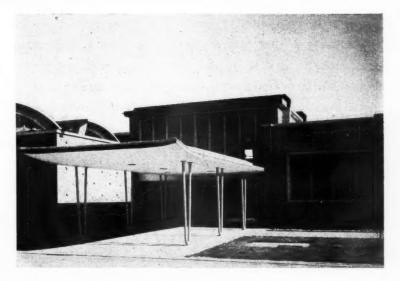
ingle ients with raw esent outh ival, 7 lift s in e in orth ough om. shed bseding

e of nonnain r.c. nord anel ally of $13\frac{1}{2}$ -in. brickwork and east to west external walls are 9-in. brickwork. Flat roofed blocks have r.c. floors and roofs and the main canteen has a continuous shell concrete roof to provide a room free from columns. The flat roofed sections have load-bearing brick walls.

The general contractors were J. Gerrard & Sons, Ltd. For sub-contractors see page 300.

Above, the south-west corner of the main building with the loading deck on the right. Right, main works entrance. Below, part of the main production area. Below right, the office entrance which has a false ceiling painted egg-shell blue.

least





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HOUSE

at GORTNAMONEY, MOIRA, CO. DOWN, NORTHERN IRELAND designed by E. W. BEAUMONT of HOUSTON and BEAUMONT heating consultant, J. R. W. MURLAND

At the time this house, built by the architect for his own occupation, was designed the limit for houses of this type in Northern Ireland was 1,500 sq. ft. Just before construction started, however, the limit was raised to 2,000 sq. ft. and some of the dimensions were increased, mainly in the bedroom wing, raising the floor area to 1,650 sq. ft. The house is heated throughout by floor panels, thermostatically controlled. The layout of the panels is shown on the plan opposite.



The entrance from the north-east.

A general view from the north-west.



GENERA mile from Belfast, of down tow the archiplan, bu zones, liv room an

Diagram

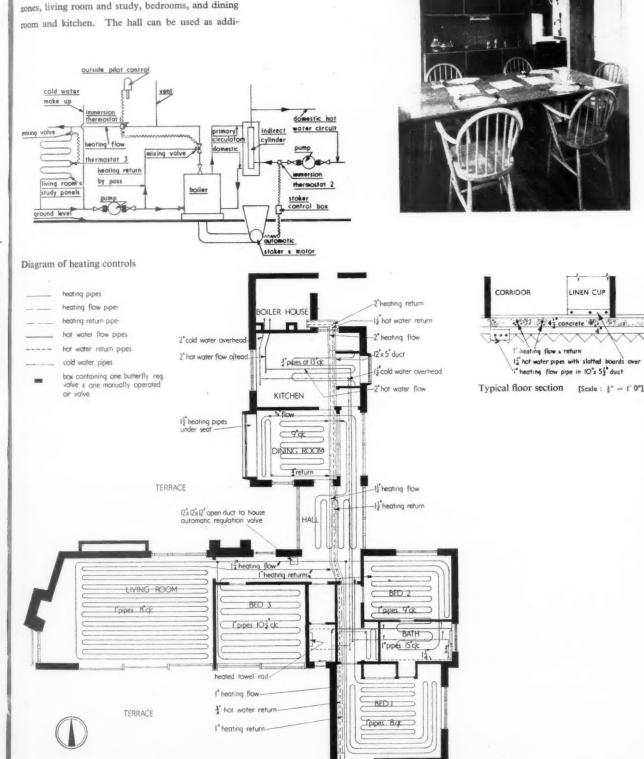
LINEN CUP

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4 concrete

g flow a return

GENERAL .- The site, which is of 2 acres, is a mile from the village of Moira and 18 miles from Belfast, close to a main road. The ground slopes down towards the south. After considerable thought the architect decided not to use the open type of plan, but to divide the house into three separate zones, living room and study, bedrooms, and dining Right, the dining room, looking towards the built-in fitting, with hatch and communicating door to the kitchen.



Ground floor plan showing layout of floor heating panels [Scale: $\frac{1}{12} = 1'0'$]



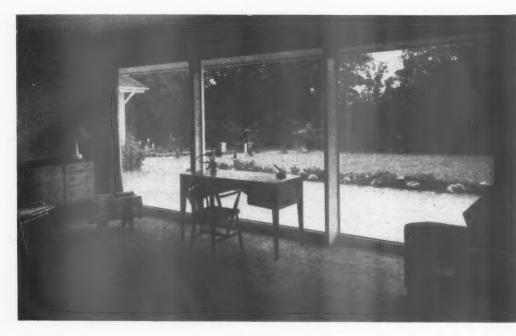
HOUSE

at GORTNAMONEY, N. IRELAND designed by E. W. BEAUMONT

tional dining space. The study has a dual use, and is shown as a third bedroom on the plan. The living room and study face south on to a terrace and there is another terrace to the north, which receives early morning sunshine over the house and direct sunshine in the evening in summer. There is an outside, log-burning fireplace, for sitting out in the evenings. The house is built of 11-in. cavity external walls, stone chimneys and terrace walling



Top, the main living room and study windows from the south-west. Above right, the living room fireplace. The floor finish is granolithic with a border of hardwood and closecarpeting. This room, and also the remainder of the house is heated by floor panels. Right, the sliding windows in the living room.



tiles in kitchen and bathroom, gurjun hardwood in dining room and study, and softwood in bedrooms. The house is enitirely floor heated and the architect wished to test the efficiency of an entirely automatic system which requires the minimum attention, except for filling the skip of the automatic stoker and removing clinkers from the boiler. The system, which was fully described in the JOURNAL for February 19, 1953, has proved very successful. The panels are laid in the centre of the 4½-in. site concrete, under which is a 4-in. layer of vermiculite concrete insulation. The house, which was built by direct labour, cost approximately 65s. per ft. sq. For sub-contractors see page 300.

and a timber roof. Floors are finished with ceramic

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The Architects' Journal for September 2, 1954 [293

TECHNICAL SECTION

The latest report in the National Building Studies series* gives an account of the efficiency of concreting methods on housing sites. The broad conclusion to be drawn is that concrete mixers are rarely used to the full extent of their performance. This is partly a question of the number and organisation of men in the concreting team, and partly a question of using mechanical aids for the transport and deposit of concrete. The report illustrates various devices that BRS have developed for this latter purpose, and it is encouraging to notice that some of them have already been taken up by the industry and are to be seen in use on sites here and there in the country. Credit is due to the BRS staff for winning co-operation in this way, but it is surely appropriate to renew the plea made by Sir David Eccles some time ago that the industry should contribute to the cost of building research.

* NBS Special Report No. 23. "A Study of Concreting Methods on Housing Sites." HMSO 2s. 6d.

CURRENT PRICES FOR MEASURED WORK

Prepared by Davis, Belfield & Everest, chartered quantity surveyors

Prices are for work executed complete and are for an average job in the London area. All prices include overhead charges and profit for the general contractor. Current prices of materials and rates of wages last appeared in the JOURNAL for August 19.

PRELIMINARIES

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Water and	Insura	nces,	accord	ling to	the nat	ture of t	he job	
(say)	00					****	****	10%

EXCAVATOR

Escavation		
N.BThe following prices are applicable to soil.	hand excavation in heavy	
Surface digging, 6" deep	per yard super 1/-	
Ditto, 12" deep	. 2/1	
Excavating not exceeding 10' 0" deep to		
reduce levels	per yard cube 8/3	
Excavating not exceeding 5' 0" deep to form basement	., 9/4	
Ditto exceeding 5' 0" and not exceeding 10' 0" deep ditto	., 13/6	
Excavating not exceeding 5' 0" deep to form surface trenches	,, 11/5	
Dittoexceeding 5' 0" deep and not exceeding 10' 0" deep ditto		
Excavating not exceeding 5' 0" deep to form	99 ±677	

Excavation

10 0 000			9000	4000	99	- (a) +
xcavating basement	not exc trench	commencing	leep to 10' 0"	form	22	19/8

EXCAVATOR-(continued)

LACATATOR (Communica)	
Disposal	
Returning, filling and ramming around foundations	3/8
yards and depositing ,,	4/2
Ditto and spreading and levelling ,,	5/5
Ditto, ditto, and consolidating to make up levels under floors and pavings ,, Filling into lorries and carting away ,,	6/10 13/1
Planking and Strutting	
Planking and strutting to sides of surface or basement excavation not exceeding 5' 0" deep	-/7 -/9
trenches not exceeding 5' 0" deep (both sides measured)	-/2 -/3
CONCRETOR Concrete (Basic Prices)	
Portland cement concrete 1:3:6 with 1 ⁴ / ₄ coarse aggregate in foundations and masses exceeding 12" thick per yard cube Ditto 1:2:4 with 2" coarse aggregate ditto,	69/9 70/3

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TECHNICAL SECTION

The Architects' Journal for September 2, 1954

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CONCRETOR-(continued)

Add to Basic Prices for :--

Working around rod or mesh reinforcement	per yard cube	4/2
Being in beds less than 12" thick (6"-12")	23	2/1
Ditto less than 6" thick (41"-6")	23	6/3
Being in small quantities not exceeding 3'		
cube	**	16/7
Being in suspended floors and roofs	23	12/5
Being in walls not exceeding 6" thick	22	20/9
Ditto exceeding 6" but not exceeding 12"	9.9	2010
thick	22	14/6
Ditto exceeding 12" thick	22	10/5
Being in lintels, beams, etc., not exceeding		
72 sq. in. sectional area		31/1
Ditto exceeding 72 and not exceeding 144 sq.		
in. sectional area	22	24/10
Ditto exceeding 144 sq. in. sectional area	32	20/9
Being in columns not exceeding 72 sq. in.	**	
sectional area	22	39/5
Ditto exceeding 72 and not exceeding 144 sq.	2.0	/-
in. sectional area		31/1
Ditto exceeding 144 sq. in. sectional area	* *	24/10
and a starting and an operation and and	9.9	
Formanonla		

Formwork

Close boarded formwork and supports to soffites of floors not exceeding 12' high Ditto to vertical faces of walls (both sides	per yard super	15/3	
measured)	22	15/5	
	per foot super	2/3	
Add to any of the above for wrot formwork			

and rubbing down concrete per yard super 2/10 Reinforcement

 to 1" diameter mild steel rod reinforcement, hooked, bent and tied at intersections as required and fixing in concrete				TECEN	gorocino	2160			
concrete	forcemen	nt, hook	ed, be	ent an	d tied	at			
#" diameter ditto ,, 71/9 Steel wire mesh fabric reinforcement to B.S. 1221, weighing 4.71 lb. per yard super, well lapped at joints and embedded in oonorete ,, 71/9							per cwt.	53/7	
Steel wire mesh fabric reinforcement to B.S. 1221, weighing 4.71 lb. per yard super, well lapped at joints and embedded in concrete	1 diamete	r ditto						57/11	
1221, weighing 4.71 lb. per yard super, well lapped at joints and embedded in conorete	j" diamete	r ditto					22	71/9	
well lapped at joints and embedded in concrete per yard super 3/5	Steel wire	mesh fab	ric rein	forcem	ent to	B.S.			
Ditto weighing 9.32 lb. per yard super ditto ,, $6/7$							per yard super	3/5	
	Ditto weig	hing 9.32	2 lb. pe	r yard	super d	litto	22	6/7	

BRICKLAYER

Common Brickwork

Reduced brickwork one brick thick in		Flettons	Rough
cement-lime mortar (1:3:9)	per yard super	30/-	36/-
Add to the above :			
If in cement mortar (1:3)		-/3	-/3
. If circular on plan to flat sweep		4/10	5/1
Ditto to quick sweep		9/8	10/4
Half brick wall in coment lime mortar			
(1:3:9)	. 33	16/3	19/4
Ditto built fair and pointed both sides			
with a neat flush joint		18/3	21/5
One brick wall built fair and pointed			
both sides with a neat flush joint		35/5	41/6
11" hollow wall with 2" cavity and			
galvanized iron twisted ties		35/3	41/4

Engineering Brickwork

Lingfield

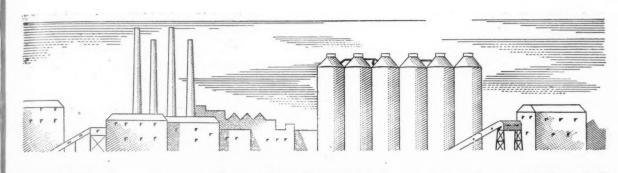
		Engin- cering	Bluo	
Reduced brickwork one brick thick in		Wirecute	bricks	
cement mortar (1:3)	per yard super	43/10	76/6	
Half brick wall in coment mortar (1:3)	22	23/8		
Ditto built fair and pointed both sides	,,			
with a neat flush joint	22	25/8	43/2	
One brick wall built fair and ditto	39	48/3		
	33		0-10	
Sundr	108			
Extra for internal fair face and flush				
pointing	per yard super	1	12	
Horizontal damp-proof course of two				
courses of slates and bedding and				
pointing	per foot super	3	/9	
Ditto of hessian base bitumen well	• •			
lapped at joints	23	-	/10	
Fixing only metal window, size 1'8" ×				
4' 0", including outting and pinning				
lugs to brickwork, bedding frames				
and pointing in mastic one side	each	8	/6	
Ditto 3' 3" × 4' 0" ditto			12	
Ditto 6' 6" x 4' 0 ditto		99		

BRICKLAYER-(continued)

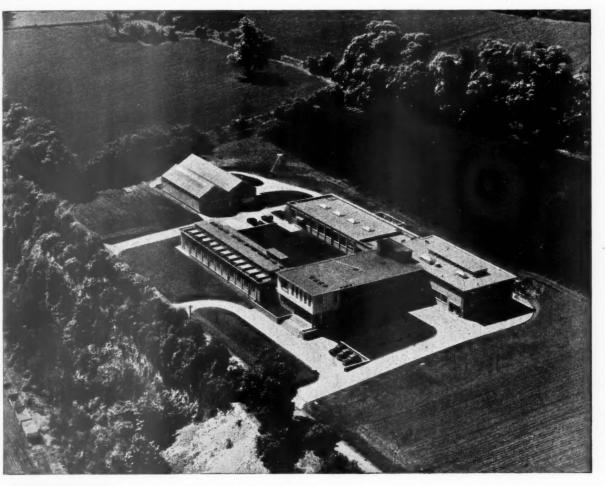
linker concrete solid parti-	Partiti		2"	21	3"	4.
tion blocks to B.S. 492 and	per yar	d super		2¶ 9/6		
Iollow elay partition blocks to B.S. 1190, keyed on both sides and ditto				1 9/1	0 11/3	
loler hollow partition blocks, keyed on both sides	,	9	0/1	1 0/1	0 11/6	, -
and ditto	91	,	18/3	19/9	9 21/	3 25/8
	Facin	igs				White
					fac 1,	glazed bings p.c .376/- M for cretchers
xtra over common brickwor built with bricks p.c.113/- I for facings as described, an pointing with a neat weat	MI idl		f p.0 242	2/- 20	ry for s, an b.c. i b1/4	354/6M c header ad point- ag with white
ered joint : To solid wall in Flemish bon	d per y	ard sup	M per 14		M. 5/7	cement 84/8
To cavity wall in stretch	er		11	19	12/8	67/9
To ditto in Flemish bor	nd	99				0110
with snapped headers Half brick wall in facings i stretcher bond built fair an	nd	99	13	/10 1	5/1	-
pointed one side with a new weathered joint		99	26	/9 2	7/9	_
Ditto pointed both sides .		99	27	/10 2	8/10	
One brick wall in facings bui fair and pointed one side			49	/10 5	1/11	-
Ditto pointed both sides .		99	50	/10 5	3/-	-
Brick on end flat arch in facing 4 ¹ / ₄ " on soffite and 9" high an pointing	id	r foot r	un 3	/1	3/2	_
Brick on edge coping to 9" was with two courses plain till under, laid breaking join two cement angle fillets an	es it,					
pointing			,, 5	2	5/3	_
SPHALTER						
forizontal applait tablica	Tank				o B.S. 1097	To B.S 1418
Horizontal asphalt tanking thicknesses on brick or con Vertical ditto		. per y	ard su	per	18/5 23/8	29/5 33/7
	Roofi			Т	o B.S. 988	To B.S 1162
asphalt flat in two thicks and including felt underlay	nesses or //	n per y	vard su	per	13/2	22/1
" asphalt skirting 6" high w fillet at bottom and roun						
turned into groove " asphalt fascia 6" high w	rith solid	1	r foot	run	2/4	2/7
water check roll at top an out drip at bottom	under		**		4/6	5/3
DRAINLAYER	renches a	and Bea	lo			
N.B.—The following prices a soil, only requiring planking	are appli and str pipes, illing in	icable t utting includ and ra surplus	to hand for dep ing im- :	d exca	vation f 3' or	in heav more.
planking and strutting, fi ming, and wheeling and spi		TOUGH 1			and mur	3/4
planking and strutting, fi ming, and wheeling and sp For each 12" in depth, exceeding 3' 0" deep	for tren			per y	ar or I out	-
planking and strutting, fi ming, and wheeling and sp For each 12" in depth, exceeding 3' 0" deep Ditto for trenches excee not exceeding 5' 0" dee	for tren	3' 0" a	and		»»	4/9
ming, and wheeling and sp For each 12" in depth, exceeding 3' 0" deep Ditto for trenches exce	for tren beding 3 p eding 5	3' 0" a	and			

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Building for the Industries of the World



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The new Research Laboratories of the Associated Portland Cement Manufacturers Ltd., recently constructed by Richard Costain Ltd. to the design of the Architects, Westwood, Sons & Harrison, FF.R.I.B.A.

COSTAIN BUILDING & CIVIL ENGINEERING CONTRACTORS

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DRAIN

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The Architects' Journal for September 2, 1954

DRAINLAYER-(continued)

DRAINLATER (communes)	·			
	Drains	3"	4*	
Clayware butt-jointed land drains and laying in trench	per foot run	-/41	-/51	
"Seconds" quality glazed stoneware socketed drains		4"	6"	9*
and laying and jointing in trench	33	2/1	2/11	4/11
* British Standard " quality ditto	39	2/5	3/6	6/-
Extra on "Seconds" qual- ity for bends	each	3/2	4/9	13/9
Ditto "British Standard" quality ditto	93	4/-	5/11	17/7
Extra on "Seconds " quality for equal single junction	39	5/5	8/-	17/3
Ditto "British Standard" quality ditto	99	7/11	9/10	21/8
Cast iron socketed drains to B.S. 437 and laying and				00/11
jointing in trench Extra for short radius bend	per foot run	11/5	17/4	33/11
(Fig. No. 4) Extra for single junction	each	22/7	44/6	125/-
(Fig. No. 18)	99 73.****	41/3	79/11	221/2
	Fittings, etc.		4"	6"
Glazed stoneware trapped guized grating and outlet and	illey with galv	rete each	22/9	42/5
Ditto with vertical inlet ditto Cast iron trapped gulley with		99	28/5	47/11
ing, and 4" outlet and setti Ditto with vertical inlet ditto	ing in concrete	99	63/9 72/8	_
Glazed stoneware intercepting tion arm, stopper and ch	g trap with insp	pec-		
manhole and jointing to dr Brown glazed stoneware ha	rain	99	72/3	84/2
channels and bedding and mortar	jointing in cem		1/11	2/10
Ditto ordinary channel bend Cast iron coated single seal n	and ditto	each		7/11
frame to B.S. 497 Grade C in coment and cover in gre	and setting fra		24"×18" 41/9	24"×24" 61/8
Galvanized ditto		99		105/11
PAVIOR				
Cement and sand (1:3) is screed to receive pavings		rd super	3/7 4/	* 1 <u>1</u> * 4 4/11
Ditto trowelled smooth to minoleum	receive		3/11 4/	8 5/3
Coment and sand (1:3) trowelled hard and smooth	paving	**	4/- 4/	9 5/4
Granolithic paving (1:21) 1 concrete		99	1* 1 6/5 7/	₽ 1₽
" red composition paving to prepared screed		on per v		
f' terrazzo paving (Portland aggregate) laid on prepared	cement and s	par	,,	33/8
Extra for white or cream cen {" rubber flooring in all cold	nent	078-	99	5/3
pared screed			99	58/3 48/10
$\frac{1}{18}$ " \times 12" \times 12" cork tile shades) laid in mastic on	flooring (bro	own	**	
surfaced and polished lf" hard red paving bricks		per	yard sup	per 45/11
laid flat on prepared bed i	n cement mort	ar	99	23/6 25/7
$6'' \times 6''$ red quarry tile pavi	ing to B.S.	****	99 57	
1286 laid on prepared s straight joints	I	per yard su	per 22/	10 25/5
$6'' \times 6''$ buff quarry tiles as l $2\frac{1}{2}''$ (finished) gravel path la	aid on pre-	9.9	20,	9 29/2
pared bed, well watered an cambers and falls	id rolled to	59		2/10
MASON				
MASON	1 .			

Portland stone and all labours in pilasters,
and quoinsper foot cube37/-Ditto in jambs, lintols, etc.......39/4Ditto in arches.........47/9Ashlar av. $6\frac{3}{4}$ " on bed with plain dressed face...per foot super21/9Portland stone or artificial stone tolandlandB.S. 1217 :-- $4\frac{1}{2}$ " \times 4" sill, sunk, weathered, throated
and grooved for water bar, set and
jointed in cement mortar...per foot run7/24/3

S

on

TECHNICAL SECTION

MASON-(continued)

	Arti- ficial 6/6
throated, set and jointed as last ,, 7/6	E /0
3 × 12 Ditto	5/9
$5^{\circ} \times 12^{\circ}$ Saddle back coping twice	8/8
6" v 19" Ditto	3/2 4/11
SLATER, TILER AND ROOFER	*/11
Slate $20^{\prime\prime} \times 10^{\prime\prime} \ 16^{\prime\prime}$	× 10"
Best Bangor slates to B.S. 680 laid with 3" lap, each slate nailed with two	~
stout copper nails per square 304.6 22 Ditto hung vertically to dormer cheeks	54/7
	62/6
Best sand faced plain (nibbed) tiles to B.S. 402 , $10\frac{1}{2}' \times 6\frac{1}{4}''$ laid to a $4''$ gauge with each tile in every fourth course	achi ne nade
nailed with galvanized nails per square $183/9$ 10 Ditto hung vertically to dormer cheeks and gables to $4\frac{3}{2}$ gauge with each tile	5711
	36/4
galvanized nails per square 19	01/7
Bridgwater hand made Double Roman red sandfaced tiles $16\frac{1}{2}^n \times 14^n$ laid to 3" laps,	2,8
	8/1
	31/3
Concrete interlocking tiles $15'' \times 9''$ laid to $3''$	57/6
	7/1
Ditto to mansard slopes ditto ,, 10 Asbestos Cement	02/4
6" corrugated asbestos cement sheeting fixed to wood roofs with galvanized drive screws and washers with a side lap of $1\frac{1}{2}$ corrugations and an end lap of 6"	01/10
6" ditto but fixed vertically ,, 11	2/10
Add to both last if fixed to steel purlins or sheeting rails with galvanized hook bolts ,, Felt	5/3
Reinforced bituminous roofing felt laid with 3" laps and nailed to rafters at 18" centres with	20/9
Two T	hree
concrete. Each layer bedded in hot bitumen per yard super 8/8 1 Extra on last for finishing with granite	1/6
chippings	/91
CARPENTER Carcassing	
Softwood, sawn and fixed, in plates, sleeper	
joists and lintols per foot cube 14 Ditto in floor and ceiling joists ,, 10	1/8 8/7
Ditto in stud partitions ,, 12	8/5
	3/3
	8/5 8/3
Ditto in hip and valley rafters including cutting	0/6
Battening and Boarding Roof V	
	anging
$4'' \times 14'$ alter for 104 \times 6 ties to 4 gauge ($44''$ for vertical hanging) , $52/6$ Roof	52/6
$\frac{3}{4}$ × 2" ditto for $14\frac{1}{2}$ " × 10" pantiles to	nsards
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	24/2
interlocking tiles to 12" gauge ,, 17/10	18/11 1*
Root boarding in batten widths close	
Roof boarding in batten widths close $4''$ jointed and fixed to flat or sloping roofs ,, $110/-$ Ditto tongued and grooved and pre- pared for felt roofing including firring	136/5

[295

FINE BUILDINGS

Everywhere these days you can see really fine buildings—attractively designed and really well-built. Such a building is illustrated below—"Four Gables" at Bure Lane, Friars Cliff, Christchurch, Hants.

Architect: P. H. Rose, A.R.I.B.A., A.R.I.C.S., Chartered Architect and Surveyor, Matthews & Rose. Priory Chambers, 6, Church Street, Christchurch, Hants.

Builders: Messrs. Taylor & Son, 104, Bargates, Christchurch, Hants,

... and of course, with FINLOCK GUTTERS -chosen from the viewpoint of efficiency, attractive appearance and economy. Modern Architects specify FINLOCK-there are so many reasons for doing so.

Free assistance available on SERVICE any site.

ESTIMATING

DELIVERIES



CARPE

Sawn gan Wrot and wrot 6" plante

fibre

galvan wood

" asb B.S. 6

f" ditto

JOINE

Plain ed

Tongues 1" doul

width

laid 1 comp

Swedish

Europe English

Europe Burma

Softwoo mold sectio Extra f

Rebate and squa Extra Cased f mold pulle N.B pattern B.S. 64

Frame filled joint Four-p and Ditto Ditto N.B panell 11" sta 2" dit

Winde in s Frame (dit Mullio Moldi 6" Wi

ing

9" Di

We take off quantities and are completely responsible for seeing that correct goods arrive on site at stated time.

Our transport covers the British Isles with a 24-hour service.



) (K FINLOCK GUTTERS LTD.



CONCRETE

Head Office : FINLOCK HOUSE, 25, FRANT ROAD, TUNBRIDGE WELLS, KENT. Tunbridge Wells 3396-9

WE DELIVER TO ALL PARTS OF ENGLAND, SCOTLAND, WALES AND NORTHERN IRELAND

GUTTERS

Shelv bea Shelv Cross Shelv 2" sh The f T. & Cross div 11" 8 Labo

Works at : Crewkerne, Somerset; Leeds, Yorks.; Edinburgh, Scotland; Cwmbran, South Wales; Royston, Herts.; Tunbridge Wells, Kent;

Belfast, N. Ireland; Wakefield, Yorks.

The Architects' Journal for September 2, 1954

Deef

CARPENTER-(continued)

	1	1001	
			ansards
Sawn gang boarding fixed to joists in roof	per foot super	1/2	1/51
Wrot and crosstongued eaves soffite		1/11	$2/2\frac{1}{2}$
6" wrot and grooved eaves fascia planted on	per foot run	-/101	1/-
Wall and Ceiling	Boards		
If fibre board to B.S. 1142 fixed with		Verti-	
galvanized flat headed nails to soft-		cally	Soffites
wood	per yard super	5/11	6/1
#" asbestos cement flat sheeting to			
"B.S. 690 fixed as last	39	6/10	7/3
1º ditto	99	8/-	8/5

JOINER

E

S

-

f' ditto

Floors and Skirtings (All thicknesses stated are nominal)

....

Plain edge softwood flooring in batten	7"	1″	14"
widths nailed to floor joists per square	135/6	151/-	181/-
Tongued and grooved ditto ,,		161/-	192/6
1" double grooved and tongued and grooved wood			
laid herringbone with two-block border, set in		astic	
composition on prepared screed and wax polishe	d :		

Swedish softwood				per y	ard super	29/5
European beech			****		**	35/2
English oak		****			29	46 9
European oak		****	****		99	39 '11
Burma teak				****	**	44/8
Softwood skirting	zs with	splayed	OF		Sectional	area
molded top edge	, planted	nch		3" to 6"	Over 6"	
sectional area)				per foot run	-/23	-/21
Extra for grounds	plugged	to brickw	ork		-/	8

Extra for grounds plugged to brickwork "

Windows in Softwood

Rebated and molded softwood fanlight and casement sashes divided int	$1\frac{1}{2}$ 2"
squares for glass	
Extra for hanging	
Cased frames with 6" × 3" oak sill and 2	
molded double hung sashes includin	

B.S. 644 are cheaper.

Doors in Softwood

Framed ledged and braced doors filled in with 1" T. & G. and V-	11"	13"	2"
jointed boarding and hanging per foot super	6/6	7/3	7/3
Four-panel door, square both sides	,		
and hanging	5/4	6/1	6/1
Ditto molded one side ,,	5/11	6/7	6/7
Ditto molded both sides	6,6	7/3	7/3
N.BThe above prices are for purpose mad	le doo	rs. St	andard
panelled doors to B.S. 459 are cheaper.			
l_{4}^{*} standard flush doors 2' 6" \times 6' 6" internal patter	m	each	120/8
2' ditto external pattern	****		129/5

Linings, Frames, etc., in Softwood

							nal area
Window and in sections Frames wro	al area)				per foot run	Up to 6' -/4	$-3\frac{1}{2}$ 6" to 12"
(ditto) Mullions, tra					99	-/3 -/31	$\frac{-2\frac{3}{4}}{-3}$
					**		4" to 6"
Moldings, ar 6" Window					99	-/31 Thie	-/31 kness
ings, tong	ued at l	back ar	nd inclu	iding		1"	11"
bearers	****				22	3/3	3/6
9" Ditto						3/8	4/-

Shelving and Fittings in Softwood

Shelving of 2" slats spaced 1" apart	on		7"	1"
bearers (measured separately)		per foot super	2/9	3/1
Shelving on ditto			2/6	3/13
Cross tongued shelving on ditto		>>	3/14	3/9
Shelving 9" wide on ditto		per foot run	1/9	2/2
2' shelf bearers plugged to walls			1/1	1/3
The following in framed up cupboa	rd i	fittings :		- / -
T. & G. & V-jointed back		per foot super	2/2	2/61
Cross tongued top, bottom shelf	or			
division		99	3/21	3/9
14" flush cupboard doors		22	7/	
Labour rebate or groove		per foot run	-1:	31

JOINER-(continued)

Labour cross-grain		per foot run	$\frac{-/4\frac{1}{2}}{-/6}$
$1^{\circ} \times 2^{\circ}$ bearers screwed on N.B.—The above prices are	for	n shem soortug	
Standard pattern kitchen fittings			

IRONMONGERY

Overhead öheck action door springs. P.C. 66/8 ,, 84/11 88 9 6" barrel bolts. P.C. 5/6 ,, 7/9 8/3. Cupboard locks. P.C. 8/2 ,, 12/5 13/7 Norfolk latches. P.C. 5/6 ,, 10/8 12/3 Cylinder night latch. P.C. 15/11 ,, 23/6 25.6 Mortice latch. P.C. 9/4 ,, 14/11 16/8 Mortice lock. P.C. 10/- ,, 14/6 15/8 Mortice lock. P.C. 15/2 ,, 22/6 24/5 Deor furniture. P.C. 24/- ,, per set 27/7 27/117 Sash fasteners. P.C. 9/- , each 11/9 12/4 Casement fasteners. P.C. 7/11 ,, 10/1 10/7						Soft- wood	Hard- wood	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3" steel butts (medium quality	ty)	* - * *		per pair	5/2	6/4	
including filling boxes with oil P.C. 149/3 each 182/8 188/10 Overhead check action door springs. P.C. 66/8 ,, 84/11 88 9 6" barrel bolts. P.C. 5/6 ,, 7/9 8/3. Cupboard locks. P.C. 8/2 ,, ,, 12/5 13/7 Norfolk latches. P.C. 5/6 ,, ,, 12/5 13/7 Ordink latches. P.C. 5/6 ,, ,, 12/5 13/7 Outploard locks. P.C. 5/6 ,, ,, 12/5 13/7 Ordine latch. P.C. 15/1 ,, ,, 12/6 25.6 Mortice latch. P.C. 9/4 ,, 14/11 16/7 Rim lock. P.C. 10/- ,, 14/6 15/8 Mortice lock. P.C. 10/- ,, 14/6 15/8 Mortice lock. P.C. 10/- ,, per set 27/7 27/17 Sash fasteners. P.C. 24/- ,, per set 27/7 27/17 Sash fasteners. P.C. 9/2 ,, 10/1 10/7	4" ditto (ditto)					6/11	8/6	
Overhead öheck action door springs. P.C. 66/8 ,, 84/11 88 9 6" barrel bolts. P.C. 5/6 ,, 7/9 8/3. Cupboard locks. P.C. 8/2 ,, 12/5 13/7 Norfolk latches. P.C. 5/6 ,, 10/8 12/3 Cylinder night latch. P.C. 15/11 ,, 23/6 25.6 Mortice latch. P.C. 9/4 ,, 14/11 16/8 Mortice lock. P.C. 10/- ,, 14/6 15/8 Mortice lock. P.C. 15/2 ,, 22/6 24/5 Deor furniture. P.C. 24/- ,, per set 27/7 27/117 Sash fasteners. P.C. 9/- , each 11/9 12/4 Casement fasteners. P.C. 7/11 ,, 10/1 10/7	Double action floor springs	and	top ce	ntres				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	including filling boxes with	h oil	P.C. 1	49/3	each	182/8	188/10-	
Cupboard locks. P.C. $8/2$, $12/5$ $13/7$ Norfolk latches. P.C. $5/6$, $10/8$ $12/3$: Cylinder night latch. P.C. $15/11$, $23/6$ $25/6$ Mortice latch. P.C. $9/4$, $14/11$ $16/7$ Rim lock. P.C. $10/-$, $14/6$ $15/8$ Mortice lock. P.C. $15/2$, $22/6$ $24/5$ Deor furniture. P.C. $24/-$ per set $27/7$ $27/11$ Sash fasteners. P.C. $9/2$, $10/1$ $10/7$	Overhead check action door s	prin	gs. P.C	. 66/8	99	84/11	88 '9	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6" barrel bolts. P.C. 5/6				37	7/9	8/3.	
	Cupboard locks. P.C. 8/2					12/5		
Mortice latch. P.C. 9/4 14/11 16/7 Rim lock. P.C. 10/- 14/61 15/8- Mortice lock. P.C. 15/2 22/6 24/5 Deor furniture. P.C. 24/- per set 27/7 27/11 Sash fasteners. P.C. 9/- each 11/9 12/4 Casement fasteners. P.C. 7/11 10/7							12/3:	
Rim lock. P.C. 10/-		5/11	****				25 6	
Mortice lock. P.C. 15/2 ,, 22/6 24/5 Deor furniture. P.C. 24/- per set 27/7 27/11 Sash fasteners. P.C. 9/- each 11/9 12/4 Casement fasteners. P.C. 7/11 10/1 10/7								
Deor furniture. P.C. 24/- per set 27/7 27/11 Sash fasteners. P.C. 9/- each 11/9 12/4 Casement fasteners. P.C. 7/11 ,, 10/1 10/7	Rim lock. P.C. 10/		****				15/8	
Sash fasteners. P.C. 9/- each 11/9 12/4 Casement fasteners. P.C. 7/11 ,, 10/1 10/7	Mortice lock. P.C. 15/2	* * * *						
Casement fasteners. P.C. 7/11 ,, 10/1 10/7			****					
	Sash fasteners. P.C. 9/-				each	11/9	12/4	
Casement stays, P.C. 11/6	Casement fasteners. P.C. 7	/11		- = = +		10/1	10/7	
	Casement stays. P.C. 11/6			****		14/-	14/6	

STEEL AND IRONWORKER

Structural Steelwork

The following prices are for Basic sections only. Prices for other sections vary roughly in proportion to the price of the steel ex mills-see " Current Market Prices of Materials."

	d. 0	
4	0	
3	0	
8	0	
17	0	
14	0	
.)	14 4 3	4 0 3 0 8 0 17 0

Sundries

Simple	wrot	iron	balus	trades	fixed	comp	lete						
(exclu	ding m	ortices	etc.)					per	cwt.	11	10	6	
Bolts wi	th hea	ds, nut	s and	washers	and	fixing		-		11	13	10	

PLASTERER AND TILE FIXER

24 gauge expanded metal lathing and fixing to softwood soffites per yard super 5/4

Lime and Gypsum Plaster

Three coat lime and two coat "Sirapite" or		
similar gypsum plaster :	Lime "Si	rapite"
On brick walls and partitions per yard super	r 6/4	4/11
On concrete soffites including hacking "	7/8	7/-
On soffite of E.M.L. (measured separ-		
ately)	6/5	7/8
"Gypsum plasterboard fixed to softwood soffites, in accordance with manufacturer's		
instructions, scrimmed and finished with		
setting coat of suitable plaster per ya	rd super	7/9
Plaster moulded cornice or cove (per inch in		
girth) per	foot run	-/5.
Cement Rendering		
Rendering in Portland cement lime sand(1:1:6)		

and partitions Portland cement and		 		per	yard super	6/1
trowelled smooth on Portland cement and	ditto	 	****			5/7
tiling on ditto		 			39	2/11

Wall Tiler

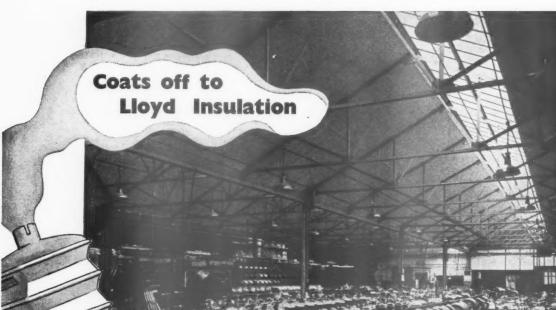
$6'' \times 6'' \times \frac{3}{2}''$ standard quality white glazed	
wall tiles set and jointed on prepared screed	39/11
Ditto eggshell matt or glossy glazed enamelled	 50/2

EXTERNAL PLUMBER AND COPPERSMITH AND ZINC WORKER

ø	0	Flats	Gutters, nash-	Stepped:	
Milled sheet lead and labour	e per owt.	198/9	ings. etc. 198/9	ings 209/5	

TECHNICAL SECTION

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Architects: Harry W. Weedon, F.R.I.B.A. & Partners, Birmingham 15.

The Triumph motorcycle factory at Coventry was built in 1942 to replace, in the shortest possible time, an existing factory which was destroyed by enemy action. Lining material and new boilers were unobtainable at

the time and after the war the factory grew too large for its heating plant. In addition to the boiler house at full capacity, sixteen coke stoves, about a dozen two-kilowatt fires

were needed-and even then people had to wear overcoats on occasions to keep warm.

Heat was being poured into the place and it poured

out again—through the 100,000 square feet of single-skin corrugated roof. Then

it was decided to line the whole

Froof with $\frac{1}{2}$ in. Lloyd Insulation Board, fixed by the Lloyd Talon System. The

job was finished in eight weeks—four weeks under schedule. Triumph have thrown out the sixteen stoves, all the heaters, no-one

needs an overcoat, everyone is comfortably warm. The same boiler plant which could not previously cope with the main shops now heats them easily. But that is not all — it now heats 31,000 square feet of offices, laboratories, stores and assembly

bays as well, which, need we add, also have Lloyd Insulated roofs.

When it's a matter of keeping warm and saving fuel - have a word with



EXTERN WORKE

24 S.W.C labour 23 S.W.C labour 14 gauge

Cast iron metal) ing an pipe n r ho pinnin separa Pressed ditto Asbestos and d Cast ir gutter with | Ditto O 18 Gau round Ditto O Asbesto ditto

> Lead so ing p 3" an diam lead Medium iron ing p fixed nails

> > INTER

Supply Distrik Flushin Waste Supply sure Ditto Distril and Flushi Waste Joints Bends Brance

Galvar 138' join pipe ured Ditto wall dist Joints Bends Tee, e

Prices

Suppl Distri Coppo sup (co sur Ditto ing to ling The Architects' Journal for September 2, 1954

TECHNICAL SECTION

[297

			Cont		ZINC
		Flats			flash-
24 S.W.G. sheet copper and	an fact annon	E 19	ing	s, etc.	
labour II 23 S.W.G. sheet copper and	er toot super	5/3		5/7	5/10
labour	89	5/7 2/3		$\frac{5}{11}$ $\frac{2}{6}$	6/2 2/8
14 gauge zine and labour	39		-	210	210
	r Pipes and G	utters			
Cast iron medium section (3" metal) R.W. pipes and joint-					
ing and fixing to walls with		3"		4	WIT:AL
pipe nails and distance pieces or holderbats (cutting and				With	
pinning holderbats measured		bats		bats	
ressed steel R.W. pipes and	per foot run	5/-	4/- G.	6/3	5/2 20 G.
ditto	99			5/4	
Asbestos cement R.W. pipes		919		2/6	
and ditto	9.9	2/8			3"
gutter and jointed and fixed		3"	18	1"	1
with brackets to fascia Ditto O.G. ditto	99 99	2/11 3/3	3/2 4/-	4/3 4/8	4/10 6/-
18 Gauge pressed steel half					
round ditto Ditto O.G. ditto		2/9 3/5		3/4/	
Asbestos cement half round	99				
ditto	9.9	2/6	5	3	/9
Soil and	Ventilating P	ines			
Lead soil, waste and ventilat-	r one of the real	ohea			
ing pipes (17 lb. per yard for					
3" and 22.8 lb. per yard for 4"		3			
diameter) fixed to walls with lead tacks and brass screws					5/5
Medium or heavy section cast					
iron soil, waste and ventilat- ing pipes with caulked joints,		Heavy	ium	Heavy	ium
fixed to walls, with pipe			3."		***
nails and distance pieces	99	5/3	4/11	6/9	6/8
INTERNAL PLUMBER					
1	Lead Pipes				
Prices are based upon	the following	weight	s per	yard.	14"
		1" ib.	th.	1b.	lb.
Supply		7	11	16	21
Distributing Flushing and overflow		· 6 3	9 5	12.5	16 9
Waste and ventilating		_	_	_	7
Supply pipe in trench (mea.		1"	ŧ"	1"	14"
sured separately)	per foot run	3/9		8/1	
Ditto fixed to walls and ceilings Distributing pipe fixed to walls	9.9	4/2	0/0	9/-	12/-
and ceilings	3.9	3/10		7/5	9/9
Flushing and overflow pipe ditto Waste and ventilating pipe ditto		2/5	3/8	4/11	6/6 5/8
Joints to fittings	, "each	5/-	5/11	6/4	7/-
Bends	9.9	6/5		7/10	2/-
Branch joints			*/*	110	014
	ubes and Fittin	ıgs			
Galvanized steel tubes to B.S.					
1387 Class C with screwed joints in red lead as supply					
pipe laid in trench (meas-	man Root	0/	0/0	0/23	9/
ured separately) Ditto Class B ditto fixed to	per toot run	2/-	2/3	2/5	3/-
walls and ceilings as supply,			0.10	e	0.10.5
distributing, waste pipe, etc.		1/11 3/9	4/61	2/4 5/3	$\frac{2/91}{6/4}$
Joints to fittings	99		_	3/11	5/9
Tee, equal or reducing	9.9	2/2	2/61	3/2	4/4
Copper	Tubes and Fitt	linga			
Prices are based upon the follow	wing gauges :-	-			
Supply		18	17	1* 16	$11''_{16}$
		19	19	18	18
Distributing, waste, etc.					
Distributing, waste, etc Copper tubes to B.S. 1386, as					
Distributing, waste, etc Copper tubes to B.S. 1386, as supply pipe laid in trench					
Distributing, waste, etc Copper tabes to B.S. 1386, as supply pipe laid in trench (couplings and trench mea- sured separately)		1/10	2/8	3/7	4/7
Distributing, waste, etc Copper tubes to B.S. 1386, as supply pipe laid in trench (couplings and trench mea- sured separately) Ditto to B.S. 659 as distribut-		1/10	2/8	3/7	4/7
Distributing, waste, etc Copper tabes to B.S. 1386, as supply pipe laid in trench (couplings and trench mea- sured separately)		1/10		3/7 3/21	

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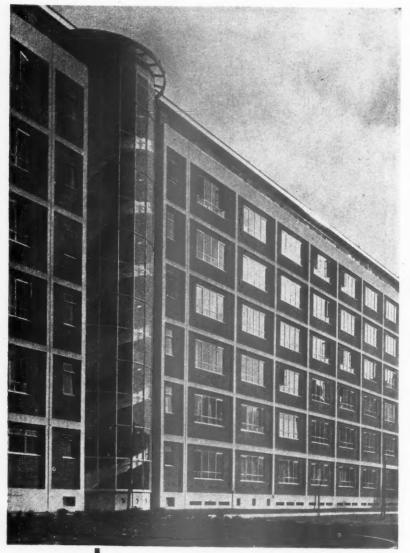
ld it

lings_copp Ditto bends	10030733	- p	up-			3~	3"				"
Ditto hende	per to c			68		4/4					
		****	****	1		5/8	6/7			1/9	
Ditto tees			****	1		7/3	8/4	12/6	ð.	18/-	
			Sanitary	Fittin	g8						
Fireclay sink	s 24" >	× 18" ;	< 10" inc	luding	g cu	tting			£	8.	d
and pinning Combined me	g brack	tets to t	iled wall.	P.C	. 75	1	4	each	4	17	0
Combined me	tal sin	k and d	rainer 42	XI	8" >	< 8t			10	10	0
to bearers (Fireclay lava	measur h	red sepa	rately).	P.C.	330			39	19	12	6
towel rail b	racket	includi	ng screwi	ing hr	ank	ta to					
tiled wall.	P.C. 1	38/6	ag borows	mg or					8	8	0
tiled wall. Rectangular	cast i	ron por	rcelain e	namel	led	bath		,,,	-		
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Valaris

F.R.I.C.S., F.I.Arb.



IBSTOCK CHESTNUT BROWN SAND-FACED BRICKS at IVEAGH HOUSE

(Guinness Trust Flats)

Architects: Armstrong & MacManus, F.R.I.B.A. Contractors: Humphreys Ltd., London, S.W.7. Bricks supplied through R. Y. Ames Ltd., W.C.2.

For this seven storey block of 161 flats for the Guinness Trust at Loughborough Road, Brixton, Ibstock Chestnut facings are used with sanded finish.

Many architects choose an Ibstock facing for the distinction imparted to brick elevations by the attractive colours and varieties that are available.

Ibstock Facings for Colour

IBSTOCK BRICK & TILE CO. LTD., near Leicester,
 London: L.M.R. Goods Depot, Wright's Lane, Kensington, W.8.

Telephone: Ibstock 391 (2 line Telephone: Western 1281 (2 line



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The Architects' Journal for September 2, 1954

TECHNICAL SECTION

THE INDUSTRY

From the Industry this week Brian Grant reports on the uses of rubber, trade films, a different kind of stacking chair, and two new space heaters.

TWO NEW FILMS

Two new films, one on Canadian cedar shingles, the other on Colterro plaster lath, are now available on loan, free, from W. H. Colt (London) Ltd. Both are silent 16 mm. films in black and white, and both deal hims in black and white, and both deal thoroughly with application methods and fixing details. Running times are 30 and 50 minutes. Obtainable from 15, Langley Road, Surbiton, Surrey.

NEW FURNITURE

The photograph below shows a chair which cannot be described as a new design, since it first appeared several years ago in, I think, America. But readers may care to know that it is now being produced in this country and retails at the comparatively low price of £6 14s. 9d. The removable canvas covers are made in a number of shades and the frames ($\frac{1}{5}$ in. diameter steel tube cellulosed) will stack. The manufacturers are new to me, but I understand that they are developing other contemporary pieces. Good luck to them. (Slinga Furniture, 18/20 Canon-bury Park North, London, N.1.)

EXPANSION JOINTING

A leaflet from the Expanded Rubber Company sets out the advantages of Rubazote as an expansion jointing material for all types of reinforced concrete construction, of the second se



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Colbran, price: £13.10.0 (inc. p.t.)

where mechanical retention, e.g., by reinforcing rods or rebated concrete, is not possible, the surface is removed and the face provides an excellent key for any of the recommended sealing compounds. (The Expanded Rubber Co. Ltd., Mitcham Road, Croydon, Surrey.)

A NEW CONVECTOR GAS FIRE

Bratt Colbran's are shortly introducing a new type of convector gas fire known as the Bamburgh. It has been evolved at the suggestion of the Northern Gas Board, in whose area there is apparently a marked demand for larger capacity domestic space heaters; the makers have worked in collaboration with the Board's Appliance Laboratory and the fire is now on the Gas Council's list of

the listed and approved appliances. There is no refractory backing behind the radiants, the usual brick being replaced by a sheet metal pressing finished in vitreous enamel. There is a vertical passage behind this pressing and chambers in the cheeks at the side, and these form a heat exchanger, air entering through openings in the base and being discharged into the room through a grille in the head of the fire (see illustra-tion). The effect is to increase the overall heating efficiency by some 25 per cent. compared with the neat burner radiant fire. The absence of any refractory back pro-vides a very quick air-warming effect which is particularly useful when the fire is installed in the bedroom. Price is about £13 10s. 0d. including purchase tax. (Bratt Colban Ltd., 10. Mortimer Street, London, W.1.)

FACTORY HEATING

Oil fired factory heating units with an output of 200,000 B.Th.U. per hour are produced by Messrs. Tropicaire, who mainproduced by Messrs. Tropicaire, who main-tain that, with an efficiency of 80 per cent, they can provide heat at a cost of 9-75 pence per 100,000 B.Th.U., corresponding figures for coal and coke being 12-0 and 12-92 pence, allowing for labour at 35s. 0d. per ton of fuel. Their heating unit consists of a burner using gas oil, a heat exchanger and one oir oir plating for with an output and an air circulating fan with an output of 2,500 cu. ft. a minute. Standardized extra items include thermostats and humidity control and fresh air inlets which can be adjusted to any required proportion of fresh and recirculated air. Installation is quite simple, as a floor space of only 27 by 29 in. is needed, and a 6 in. flue pipe. Heated air is either ducted or emitted through a grille at the top of the unit. There are the usual safety devices to cover fuel or current failure. (*Tropicaire Ltd.*, Waterside Works, Ashford Road, Ashford Common, Middlesex.)

1299

FACTS ABOUT RUBBER

The British Rubber Development Board The British Rubber Development Board has just published a well illustrated book What Every Engineer Should Know About Rubber, by W. J. S. Naunton. The title is accurate, and the book, as one might expect, deals mainly with the properties of rubber of interest to the mechanical engineer. Some of it, however, is of considerable interest to orbitate parts the the state of the state of the state. architects, notably the section dealing with the insulation of machinery and the elimination of transmitted vibration. Copies are 3s. 6d. post free from Market Buildings, Mark Lane, London, E.C.3.

Buildings Illustrated

Primary School at Ford, Nr. Shrewsbury. for the Shropshire County Council. (Pages 282-284). Architects: C. H. Simmons, A.R.I.B.A., DIP.T.P., County Architect; R. Booth, A.R.I.B.A., Chief Assistant; G. Chamberlain, A.R.J.B.A., Assistant Architect. Con-sulting Engineers: Ove Arup & Partners. Quantity Surveyors: County Architect's Department. General Contractors: Shrews-bury Building Contractors Ltd. Clerk of Works: F. C. Griffiths. General Foreman: Works; F. C. Griffiths. General Foreman: W. Gwilliam. Sub-contractors: damp-courses, roofing *felt. The Ruberoid Co. Ltd.; bricks, Proctor & Lavender Ltd.; special roofings, C. D. Productions Ltd. (punt roofing); "Ply-glass" by James Clark & Eaton Ltd.; Thermoplastic Floor tiles, (continued overleaf)

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.)

Please ask manufacturers to send further particulars to :--

NAME

PROFESSION or TRADE

ADDRESS

Left: the Slinga canvas covered chair, price: [6.14.9. Right: the Bamburgs convector gas fire by Bratt

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Flooring (North Staffs) Ltd.; central heating, Scull Bros. Ltd.; boilers, Ideal Boilers & Radiators Ltd.; electric wiring, Cooper & Co. (Shrewsbury) Ltd.; electric light fixtures, Merchant Adventurers of London Ltd., and Falk, Stadelman & Co. Ltd.; sanitary fittings, A. D. Foulkes Ltd.; window furniture and door furniture, James Gibbons Ltd.; fireproof doors, Leaderflush Ltd.; textiles, W. H. Smout & Son Ltd.; wallpapers, Wallpaper Manufacturers Ltd.; plant pots, Clement Dalley & Co. Ltd.; school fittings, furniture, Educational Supply Association Ltd.; cloakroom fittings, B. Finch & Co. Ltd.; interior decoration, G. Green.

Standard Factory for Samson Clark & Co. Ltd., in Caxton Way, Stevenage. Herts, for the Stevenage Development Corporation. (Pages 285-286). Architects: Professor Clifford Holliday, MARCH., F.R.I.B.A., M.T.P.I., formerly Chief Architect; Leonard G. Vincent, Deputy Chief Architect; Group Leader, L. W. Aked, A.R.I.B.A.; Assistant Architect: R. E. Owen, A.R.I.B.A.; Assistant Architect: R. E. Owen, A.R.I.B.A.; Sculptor for commemoration stone: Philip Evett. Consultants (reinforced Concrete structure): Trussed Concrete Steel Co. Quantity Surveyors: Gardiner & Theobald. General Contractor: Gilbert-Ash Ltd. Clerk of Works: S. A. J. Culpin. General Foreman: S. F. Harding. Sub-contractors: foundations, reinforced concrete, Trussed Concrete Steel Co.; bricks, E. H. Smith Ltd. (mild stocks), London & Sussex Merchants Ltd. (selected Sussex blues): asbestos spray to barrel soffits, Turners Asbestos Co. Ltd.; roofing felt, Ragusa Asphalte Paving Co. Ltd.; hollow clay blocks, London Brick Co. Ltd.; jatas, Faulkner, Greene & Co. Ltd.; patent glazing, casements, Williams & Williams Ltd.; patent flooring, Semtex Ltd.; plaster, W. A. Telling Ltd.; metalwork, H. & C. Davis Ltd.; joinery, H. P. Barker & Son Ltd.; painting, J. L. Cunnington; paints and distempers, Sir W. A. Rose & Co. Ltd.; and Silexine Paints Ltd.; central heating and ventilation, James Combe & Son Ltd.; gasfitting, Eastern Gas Board; electric wiring, Eastern Electricity Board; plumbing, J. S. Wright & Co. Ltd.; sanitary fittings, Sitisons Sanitary Fittings Ltd.; stairtreads, Jaconello Ltd.; door furniture, Dryad Metal Works Ltd.; folding gates, Esavian Ltd.; iron staircase, balustrading and guardrails, H. & C. Davis Ltd.

Factory at Moreton, Wirral, Cheshire, for Cadbury Bros. Ltd. (Pages 287-289). Architect: C. J. Wilkinson, L.R.I.B.A., Staff Architect: J. M. Muritagh, A.R.I.B.A., J. C. Holt, A.R.I.B.A. Landscape Consultant: G. A. Jellicoe, F.R.I.B.A., P.F.I.L.A. General Contractors: J. Gerrard & Sons Ltd., Lloyd & Cross Ltd. (site levelling). Sub-contractors: guarry tile flooring, grey quartzite flooring, gold quartzite fascia (office entrance), John Stubbs (Marble & Quartzite) Ltd.; faience tiling, Shaws Glazed Brick Co. Ltd.; reconstructed stonework, The Empire Stone Co. Ltd.; metal windows and lantern lights, Crittall Manufacturing Co. Ltd.; north light patent glazing, patent glazing to boiler house, Mellowes & Co. Ltd.; chimney stack, P. C. Richardson & Co. Ltd.; felt waterproofing to shells, The Ruberoid Co. Ltd.; facing bricks, Buckley Junction Brick & Tile Co. Ltd.; reinforced concrete, "Twisteel" Reinforcement Co.; granolithic reinforcement, Surfastol Ltd.; folding doors, Bolton Gates Ltd.; sliding door gear, P. C. Henderson Ltd.; locks, Chubb & Sons Ltd.; faressing room fittings, Lockerbie & Wilkinson Ltd.; roller shutters, Roller Shutters Ltd.; finish to underside of shell roofs, etc., John Ellis & Sons Ltd.; sanitary fittings and office partitions, Rowe Brothers Ltd.; asphalt roofing, Val de Travers Ltd.; glass domes, T. & W. Ide Ltd.; furniture, fabrices and carpets, Browns of Chester; layout of grounds, Clapham's Nurseries Ltd.; heating and ventilating, Brightside Engineering Co.; electrical installation, British Insulated Callenders Cables Ltd. and Lee Beesley & Co. Ltd.; tubular scaffolding and metal shuttering, Scaffolding (Great Britain) Ltd.

House at Gortnamoney, Moira, Co. Down, Northern Ireland. (Pages 290-292). Architect: Major E. W. Beaumont, A.R.I.B.A., A.M.T.P.I., of Houston & Beaumont. Heating Consultant: J. R. W. Murland, B.SC., M.CONS.E., M.I.C.E., M.I.MECH.E., M.I.E.E. Clerk of Works: J. Callaghan. General Contractors: direct labour. Sub-contractors: dampcourses, D. Anderson & Son Ltd.; bricks, Coalisland Brick Co.; shingles, J. P. Corry & Co.; glass, W. F. Clokey & Co.; wood strip flooring, A. N. McDougal & Sons: floor tiles, Langley London Ltd.; central heating, T. Crowe & Sons; stoves, Aga Heat Ltd.; electric wiring, F. Caldwell & Co.: electric light fixtures, Merchant Adventurers of London Ltd.; sanitary fittings, Shanks & Co.; casements, Wm. Logan & Sons: door and window furniture, Dryad Metal Works Ltd.; plaster, F. Johnson; joinery, stonework, tiling, water supply, direct labour; textiles, Storey Bros. & Co. Ltd., Hanna & Brown; wallpapers, A. Sanderson & Son; furniture, direct labour, Storey Bros, & Co. Ltd.; shrubs and trees, Walker & Abraham Seagoe.

Correction

In the issue of August 5 the list of subcontractors on page 180 for the school at St. Paul's Cray, Kent, attributed the patent flooring to Armstrong Cork Co. Ltd. This was incorrect. The flooring was carried out by Neuchatel Asphalte Co. Ltd. F. J. Moreton & Son Ltd. were responsible for all joinery work, apart from the doors.

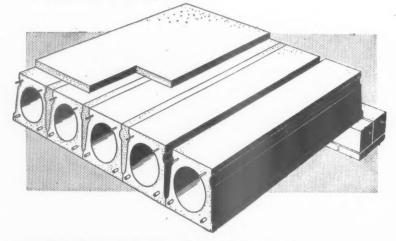
FOR ROOF AND FLOOR CONSTRUCTION

MARLEY EAGLE PRE-CAST CONCRETE BEAMS

For all normal spans and loadings. Quotation on receipt of details.

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Marley Concrete Products also include Garages and General Purpose and Industrial Buildings. The narrow section of these beams allows easy handling and speedy erection without elaborate equipment and without sacrifice of strength. A 10 ft. unit weighs less than 200 lbs. The manufacturing process ensures the steel reinforcement being accurately placed. The recesses in the sides of the beams accommodate any continuity of steel that may be required, allowing it to be well bedded in the in situ grouting.



Surrey Concrete Ltd., Peasmarsh, GUILDFORD, Surrey. Guildford 62986 Shurdcrete Ltd., Shurdington, NR. CHELTENHAM. Shurdington 334/5 THE MARLEY TILE Co., LTD., Stifford Rd., Sth. Ockendon, NR. ROMFORD. Sth. Ockendon 2201 MARLEY CONCRETE, Waterloo, POOLE, Dorset. Broadstone 626.



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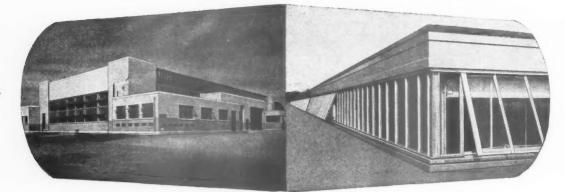
Easy does it

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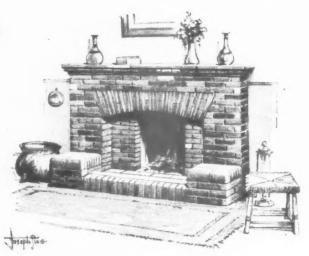
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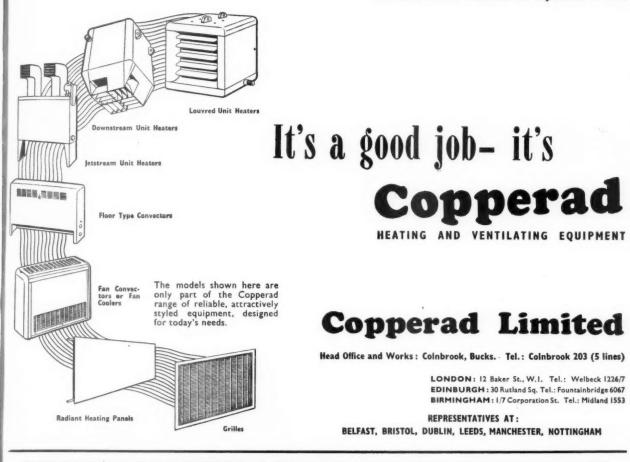


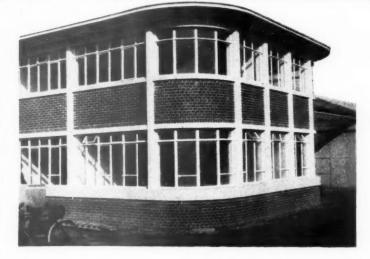


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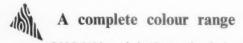
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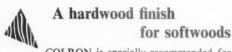
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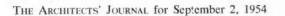
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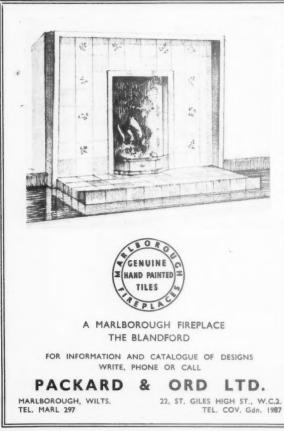
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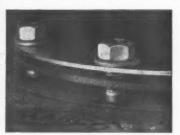
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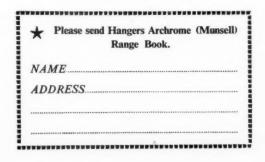
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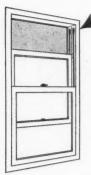
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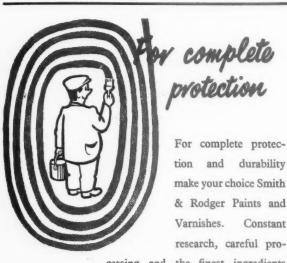
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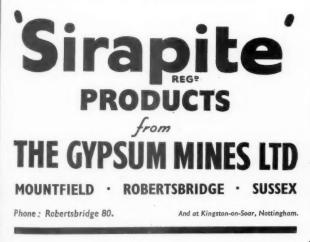
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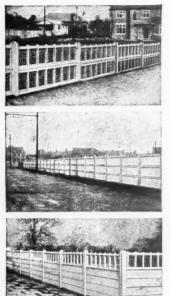


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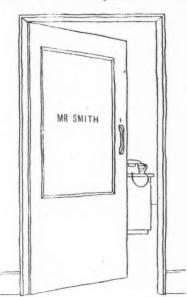
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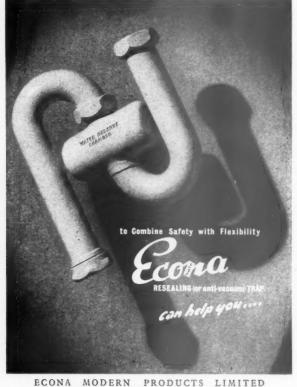
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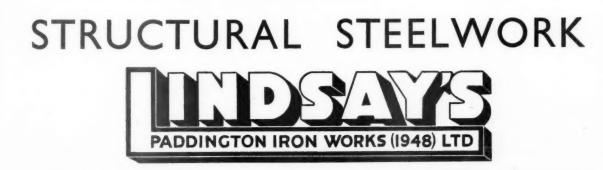
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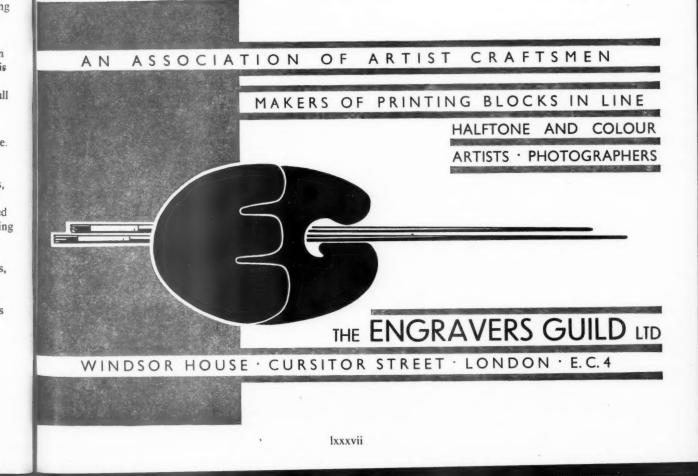
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Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate. Westminsler, S.W.1. and should reach there by first post on Friday morning for inclusion in the following Thursday's

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

Public and Official Announcements

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HARRY TAYLOR. Town Clerk.

3692 BOROUGH OF TAUNTON. ABCHITECT'S DEPARTMENT. Applications are invited for the post of ASSIS-TANT QUANTITY SURVEYOR, salary (A.P.T., Grade V), 2620-2670, in the Borough Housing Architect's Department. Candidates should prefer-ably be Associates of the Royal Institution of Chartered Surveyors. The appointment will be subject to the National Scheme of Conditions of Service, and one month's notice on either side, and to the provisions of the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination. Consideration will be given to housing accommo-dation if required.

Consideration will be given to housing accommo-dation if required. Applications, stating age, qualifications, previous experience, and the earliest date when available together with the names and addresses of two referees, should be sent to C. Bacon, FRILBA., Borough Housing Architect, Flook House, Station Road, Taunton, by not later than Wednesday, 3th September, 1954.

L. ATWELL Town Clerk

Municipal Buildings, Taunton.

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 LONDON COUNTY COUNCIL

 ARCHITECTS DEPARTMENT

 JUNIOR
 ARCHITECTURAL

 DRAUGHTS

 MEN
 (probationers B.I.B.A)

 required for

 Housing, Schools and General Divisions.

 Starting

 wage according to age and experience.

 Application

 the Architect (AR/EK/AD1), County Hall, London.

 S.E.1. (1140)

BOROUGH OF HARROW. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT (ARCHITECT'S SECTION). Applications are invited for the under-tentioned appointment;— ARCHITECTURAL ASSISTANT, A.P.T., Grade v

ARCHITECTURAL ASSISTANT, A.F.L. Grade IV. Salary: £580-6625 per annum, plus London weighting." Duties include the preparation of drawings and specifications, and supervision of works on new buildings and works of maintenance and repair. The appointment will be subject to the pro-visions of the Local Government Superannuation Acts; to the passing of a medical examination: and to the National Joint Council's Scheme of Conditions of Service. The Council cannot assist in obtaining housing accommodation. Canvassing will be a disqualification. Forms of application may be obtained from the undersigned, to whom they should be returned not later than Friday, 17th Sentember, 1954. D. H. PRITCHARD. Town Clerk.

Town Clerk's Office, Harrow Weald Lodge, Harrow, Middx. 3773

CO-OPERATIVE WHOLESALE SOCIETY, LTD, ARCHITECT'S DEPARTMENT, MANCHESTER

ARCHITECT'S DEPARTMENT. MANCHESTER. Applications are invited for the appointment of ASSISTANT ARCHITECTS. Candidates must have had several years' experi-ence, preferably of commercial or industrial pro-jects, possess a sound knowledge of construction. and be able to prepare working drawings and details from preliminary sketches. The appointments are permanent, with prospects of promotion. Successful applicants will be re-quired to undergo a medical examination for entry into a compulsory Superannuation Scheme. Applications, stating age, experience, quali-fications and salary required, to be addressed to G. S. Hay, A.R.I.B.A., Chief Architect, Co-opera-tive Wholesale Society, Ltd., 1, Balloon Street. Manchester.

 Manchester.
 3657

 BOROUGH OF FINCHLEY.
 TEMPORARY ARCHITECTURAL ASSISTANT.

 HOUSING AND TOWN PLANNING
 DEPARTMENT.

 Salary: A.P.T., Grade IV (2580-5625), or A.P.T.,

 Grade V (2520-2670), plus London weighting,

 according to qualifications.

 Candidates must have reached R.I.B.A. Inter

 mediate standard, and have at least two years'

 practical office experience in housing work.

 The National Scheme of Conditions of Service

 and the Local Government Superannuation Acts

 apply, and medical examination required.

 Applications, stating age and full particulars

 of two referees, to the Borough Housing and Town

 Planning Officer, The Avenue, Finchley, N.3. by

 first post on Tuesday, the 14th September 1954.

 R. M. FRANKLIN.

 Town Clerk.

 3648

The PRANKULE. The PRANKULE. The Provisions of the National Scale of Salaries, com-mencing at £20 per annum (£25-420). Appli-canti must have considerable and varies and provisions of the National Scale of Salaries, com-mencing at £785 per annum (£785-4860). Appli-cants must have considerable and varied experi-ence in design, construction and supervision of contracts, including local authority housing. Candidates must be Registered Architects and preferably possess the A.R.I.B.A. qualification. (2) ARCHITECTURAL ASSISTANT Salary in accordance with Grade V A.P.T. division of the National Scale of Salaries, com-mencing at £820 per annum (£25-4860). Appli-cantis must have considerable and varied experi-ence in a design, construction and supervision of contracts, including local authority housing. Candidates must be Registered Architects and preferably possess the A.R.I.B.A. qualification. (2) ARCHITECTURAL ASSISTANT Salary in accordance with Grade V A.P.T. division of the National Scale of Salaries, com-mencing at £820 per annum (£620-£670). Appli-cants must have not less than two years' experi-ence in an architecture. The provisions of the Cocal Government Super-anuation. or it's equivalent, at a recognised School of Architecture. The provisions of the successful candidates, if married. The provisions of the successful candidates, if married. The forther must be received not later than the position for which application is heing made. Complete forms must be precived not later than thursday, the 16th September. 1954. 2000

Council Offices. Corby. Northants. 1ºth August. 1954.

 19th August. 1954.
 3752

 METROPOLITAN POROUGH OF ST. MARYLEBONE.
 SENIOR ARCHITECTURAL ASSISTANT re-ouired for Housing Department. Grade A.P.T. Va (£650-£710). blus weighting. Candidates should be Registered Architects, with good experience in design of Municipal flats and supervision of con-tracts. Appointment subject to National Scheme of Conditions of Service, medical examination, and Council's Superannuation Scheme.

 Applications, stating are, onulfifications, full details of experience and positions held, with names of three referees, to Town Clerk, Town Hall. St. Marylebone, W.I. by Saturday, 18th Sep-tember, 1954. Canvassing disqualifies. Housing accommodation cannot be provided.

LONDON COUNTY COUNCIL. ARCHITECT'S DEPARTMENT. (a) PLANNING OFFICERS, Grade III (up to

(b) PLANNING OFFICIARS, Glaue III (up to (292 10s.).
 (b) PLANNING ASSISTANTS (up to £739 10s.). Professional qualifications: A.R.I.B.A. A.R.I.C.S. and/or A.M.T.P.I., required. Applica-tion forms and particulars from Architect (AR/EK/P/4), County Hall, S.E.I. 320

CITY OF WAKEFIELD. QUANTITY SURVEYOR (GRADE A.P.T., IV £580-£625).

QUANTITY SURVEYOR transmission (550.6525). Applications are invited for the above appoint-ment in the City Engineer's Department, from qualified Quantity Surveyors who have had exper-ence in the settling of final accounts for housing and schools. Applications, giving full particulars of exper-ence, etc., and the names of two referees, to be sent to me by the 15th September, 1954. W. S. DES FORGES. Town Clerk. 379

Town Hall, Wakefield.

Town Hall, Wakefield. 378 Air Ministry Works Department requires RCH1TRECTURAL ASSISTANTS in Design Branch. Applicants should be experienced in planning and preparation of working drawings and details for permanent and semi-permanent buildings. Professional qualifications an advan-tage. Vacancies mainly London, few Provinea. Appointments carry liability for overseas service for which allowances payable. Salaries up bé 2780 p.a. for men, £618 for women. Starting pay dependent upon age, qualifications and exper-ence. Extra duty allowance or overtime payable. Reasonable prospects of promotion. Poske tem-possibilities. Competitions held periodically to fil established vacancies. Applications from nature horn British subjects only, quoting A/C and stating age, qualifications and previous appoin-tionet, to Air Ministry, S2(h)/NA, Cornwall House. ILONDON COUNTY COUNCIL.

LONDON COUNTY COUNCIL. Architects and surveyors required for safety regulations of theatres and special buildings, and for general building regulation work. Salaries up to £892 10s., according to experience. A.R.LBA. or A.R.I.C.S. essential. Particulars and applica-tion form from Architect (AR/EK/TBR/3), The County Hall, S.E.I. (848) 3467

County Hall, S.E.I. (000) LONDON COUNTY COUNCIL. Grade III ENGINEERS (salary up to 2692 108) and SURVEYING ASSISTANTS (up to 2779 108) required in District Surveyor's Service. Qualific-tions A.R.I.B.A., A.M.IStr.E., or A.R.IC.S. structural knowledge essential. Particulars and application forms from Architect (AR/EK/D8/2). County Hall, S.E.I. (1025). 301

County Hall, S.E.I. (1029). 501 BELFAST EDUCATION COMMITTEE. COLLEGE OF TECHNOLOGY. Principal: D. H. AUXANDER. O.B.E., M.Sc., Wh.Sch., M.I.Mech.E., M.I.Mar.E. COLLEGE OF ART. SENIOR LECTURER IN ARCHITECTURE. Applications are invited for the position of Senior Lecturer in Architecture. Applicants mush have followed a full-time course at a recordised School of Architecture, and should hold a degree. or equivalent qualification, in Architecture. They must also be Associates of the Royal Institute of British Architects, and have had adequate office experience.

experience. The salary attached to the position is £900 per annum, rising by annual increments of £25 to

The salary attached to the position is £900 per annum, rising by annual increments of £25 to £1,100 per annum. Further particulars and forms of application may be obtained from the Principal, College of Technology, Belfast, with whom applications must be lodged not later than Thursday, 30th September, 1954.

J. STUARTHAWNT, Director of Education. 3765

BOROUGH OF MAIDSTONE. APPOINTMENT OF ARCHITECTURAL ASSISTANT. Applications are invited for the above appoint ment in the Borough Surveyor's Department, at a salary in accordance with Grade V, commencing the accordance with Grade V, commencing other Architectural Association, and should have other Architectural Association, and should have development, of which the Council has an exten-sive programme, including a shopping centre. Applicants also should have had experience in handling jobs in progress, dealing with contracts Dwellings Acquisition Acts. The aupointment will be subject to the National Scheme of Conditions of Service, the Local Government Singers, more monthy, notice on either side. Canvesing will disquality.

Government Superannuation Acts, the passing of medical examination, and one month's notice of either side. Canvassing will disqualify. Applications, on forms to be supplied, accom-panied by copies of two recent testimonials, musi-reach the undersigned not later than the 13th September, 1954. S. F. DIXON

	S.	F.	DIXON.		Ł
			Borough	Surveyor.	Ł
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Borough Surveyor's Departm Palace Avenue, Maidstone. 20th August, 1954.

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COUNTY COUNCIL OF ESSEX. COUNTY LAND AGENT AND VALUER'S DEPARTMENT. Applications are invited for the appointment of a BULLDING AND ARCHITECTURAL ASSIS-TANT on the established staff. Salary in accord-ance with A.P.T., III (£550, rising to £595 by three annal increments). Condidates should be capable draughtsmen and was been trained in an appropriate professional

Candidates should be capable draughtsmen and have been trained in an appropriate professional office. They should also have sound knowledge of building details and construction, and ability to write specifications for minor works. Regard will be had to the qualifications and experience of the candidates, and it will be an advantage if the latter has been in connection with farm buildings and rural houses. Application forms from the County Land Agent and Yaluer, 69, Duke Street, Chelmsford, to whom they should be returned not later than 8th Sep-tember, 1954. Canvassing disqualifies. GLOUCESTERSHIRE COUNTY COUNCIL

Canvassing disqualifies. 3785 GLOUCESTERSHIRE COUNTY COUNCIL. ASSISTANT ARCHITECTS, Qualified Members of R.I.B.A. N.J.C. Conditions of Service. Grades vIL VI. V. and also ARCHITECTURAL ASSIS-TANT, Inter. Exam. R.I.B.A. Grade IV. Medical eramination. Motor car driving licence. Apply, giving age, present position, salary, and date appointment, previous appointments, names and addresses two persons for references, County Architect. Shire Hall, Gloucester, by 8th Sep-tember, 1954. GUY H. DAVIS.

GUY H. DAVIS, Clerk of the County Council

COUNTY BOROUGH OF DARLINGTON. BOROUGH ARCHITECT'S DEPARTMENT. Applications are invited for ASSISTANT ARCHITECT. Salary: Grade A.P.T., VI (£695-

(160). The Department is dealing with a large pro-gramme of Education work, Housing, Welfare Buildings and other general work. Candidates who have had previous experience and are Members of the R.I.B.A. will receive

preference. Applications, giving full particulars of age, qualifications, present appointment with salary, previous experience, and names and addresses of three referees, to be sent to Borough Architect, Central Buildings, Darlington, not later than for 13th September, 1954.

H. HOPKINS. Town Clerk

Town Clerk. 3788 COUNTY BOROUGH OF SOUTHPORT. Applications are invited for the following appointments in the Borough Architect and Town Planning Officer's Department: (a) ASSISTANT QUANTITY SURVEYOR, A.P.T. Division, Grade IV (£550-£625 per annum). Candidates must have passed the Intermediate Examination of the R.I.C.S. (Quantities Division). (b) ARCHITECTURAL ASSISTANT, A.P.T. Division, Grade III (£550-£625 per annum). Candi-dates must have passed the Intermediate Examina-tion of the R.I.B.A. Application Forms obtainable from the Acting-Borough Architect and Town Planning Officer, \$3705, Lord Street. R. EDGAR PERRINS. Town Clerk. 3790

THE WEST OF SCOTLAND AGRICULTURAL COLLEGE. The Governors invite applications for the post of JUNIOR ASSISTANT IN THE FARM BULDINGS ADVISORY SERVICE of the College from candidates with either Architectural, quantity Surveying or good general Building Trade Training and with experience in preparing drawings.

Trade Training and with experience in preparing drawings. Salary Scale Grade B (Intermediate) £245 rising to £540 plus Pay Addition £24.12/- rising to £52.6/-(with entry according to age up to 25). Conditions of appointment and application forms are obtainable from the Secretary, 6, Blyths-wood Square, Glasgow, C.2. with whom applica-tions should be lodged not later than 8th Septem-ber, 1954.

2854 CITY OF STOKE-ON-TRENT. Applications are invited for the following appointment:-ASRISTANT QUANTITY SURVEYOR. Salary: A.F. Div., Grade VIII (£785-£860). Housing accommodation may be made available to the successful candidate. Applications, stating date of birth, particulars of training and experience, with copies of two recent testimonials, should be received by J. R. Pirgott, T.D., F.R.I.B.A., City Architect Kings-way. Stoke-on-Trent, endorsed with the title of the appointment, not later than Monday, 20th Sep-tember, 1954. HARRY TAYLOR.

HARRY TAYLOR. Town Clerk.

3807 WORCESTERSHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. Applications are invited for two posts of SENIOR ASSISTANT ARCHITECTS. Grade A.P.T., Grades V.Va. of National Joint Scheme. dealing with major building works. Experience in Local Authority work will be an advantage. Application forms may be obtained from L. C. Lomas, F.R.I.B.A., County Architect, 14, Castle Street, Worcester. (R.119)

COUNTY BOROUGH OF HALIFAX. APPOINTMENT OF QUANTITY SURVEYOR. Applications are invited for the above appoint-ment, at a salary in accordance with Grade A.P.T., VII/VIII (£735-£860). HOUSING ACCOMMODATION FOR THE SUCCESSFUL CANDIDATE WILL BE PRO-VIDED IF NECESSARY. The successful candidate will take charge of the Quantity Surveying Section of the Borough Engi-neer's Department, and will be responsible for the whole of the Quantity Surveying work entailed on architectural work, including new schools, housing.etc.

Candidates should possess appropriate technical qualifications, and will be required to pass a medical examination. The appointment will be subject to the conditions of service adopted by the Corporation and to the Local Government Superannation Acts, 1937-53. Candidates must disclose whether, to their know-ledge, they are related to any member of or the holder of, any senior office under the Council. Applications, stating age, qualifications, present position, salary and experience, accompanied by copies of three recent testimonials, should be appropriately endorsed and delivered to the under-signed not later than Friday, 10th September, 1954.

RICHARD de Z. HALL, Town Clerk.

3811

Town Hall, Halifax. 20th August, 1954. CITY OF LEEDS. CITY ARCHITECT'S DEPARTMENT. Applications are invited for the folio appointment:following

appointment:— CHIEF ASSISTANT ARCHITECT. A.P.T., IX (£840-£950). The successful candidate will be in charge of a section of the Department dealing with public buildings and the redevelopment of central areas. The payment of salary increments will be subject to satisfactory service, and will be granted normally with effect from the 1st April following the completion of six months' service. The appointment is subject to the Local Govern-ment Superannuation Acts, 1937-1953, and the successful applicant will be required to pass a medical examination. Application forms may be obtained from the City Architect, Priestley House, Quarry Hill, Leeds, 9, to whom they should be returned, together with copies of three testimonials, by 12 noon on Saturday, 18th September, 1954. Canvassing in any form, either directly or indirectly, will be a disqualification. R. A. H. LIVETT, O.B.E., A.R.I.B.A., City Architect. Priestley House, Quarry Hill, Leeds, 9. 23rd August, 1954. BARDED THE NORTH-WESTERN ELECTRICITY

THE NORTH-WESTERN ELECTRICITY BOARD. APPOINTMENT OF QUANTITY SURVEYOR (THIRD ASSISTANT ENGINEER), CONSTRUC-TION SECTION, CHIEF ENGINEER'S DE-PARTMENT, AREA BOARD HEADQUARTERS, MANCHESTER. Applicants should be Corporate Members of the R.I.C.S. (Quantities Sub-Division) or I.Q.S., and must be able to undertake the complete prepara-tion of Bills for all types of work, valuation for interim certificates, and settlement of Final Accounts.

tion of Bills for all types of work, valuation for interim certificates, and settlement of Final Accounts. Commencing salary within range £649-£790 p.a., according to experience, rising ultimately to £883 p.a. Class AX/EX, Grade 5. Schedule "C" N.J.B. Conditions. Note.—Applicants who responded to the previous advertisement of this post need not re-apply, as their applications will be considered together with those received in response to this advertisement. APPOINTMENT OF CLERK OF WORKS (GENERAL ASSISTANT ENGINEER), CHIEF ENGINEER'S DEPARTMENT. AREA BOARD HEADQUARTERS Applicants should have been building craftsmen and must have had previous experience as either Clerk of Works of General Foreman on work com-prising all trades on small and large contracts. They must possess a sound knowledge of con-struction and be able to supervise the work of all trades, including painting and installation of heating systems and other specialist services. They must be capable of setting out, checking and recording variations, control of day work and be able to submit clear and concise reports. Starting salary within the range £501-£639 p.a., according to qualifications and experience, rising subsequently to £714 p.a. Grade AX/EX 8, N.J.B. conditions.

conditions. Applications to Establishment Officer. The North-Western Electricity Board, Cheetwood Road, Manchester, 8, by 11th September, 1954, 3840

URBAN DISTRICT OF FELTHAM. TEMPORARY ARCHITECTURAL ASSISTANT required. Salary within Grade A.P.T. VI (£695-2760 per annum), plus London "weighting." Applicants must be Registered Architects. Forms of application, obtainable from the undersigned, must be returned, accompanied by copies of two testimonials, not later than 17th September, 1954. Canvassing directly or indirectly will disqualify and applicants must disclose, in writing, whether to their knowledge they are related to any member of or the holder of any senior office under the Council. M. W. COUPE, Clerk of the Council.

Council Offices, Feltham, Middlesex.

3823

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THE ARCHITECTS' JOURNAL for September 2, 1954

ZETLAND COUNTY COUNCIL. Applications are invited for the following appointments in the County Architect's Depart-

Applications are invited for the following appointments in the County Architect's Depart-ment:— (1) ARCHITECTURAL ASSISTANT. Salary in A.P.T., Grade V-Va, of National Joint Scheme. Candidates should be Associates of the Royal Institute of British Architects, and have had experience in the preparation of sketch plans and working drawings for housing, schools, and other local authority projects. (2) ARCHITECTURAL DRAUGHTSMAN. Salary in General Division of National Joint Scheme. Candidates should preferably have passed the Intermediate Examination of the Royal Insti-tute of British Architects, and have had experi-ence in the preparation of sketch plans, working drawings and details. Written applications, giving particulars of age, mulfications and experience, and stating when applicants can take up duty, should be lodged with the Subscriber by 30th September, 1954. One copy of not more than three recent testimonials should be enclosed. Canvassing in any form will dis-qualify. JOHN N. SINCLAIR. Contu Clerk..

JOHN N. SINCLAIR. County Clerk.. County Buildings, Lerwick. 25th August, 1954.

 25th August, 1954.
 3620

 25th August, 1954.
 3620

 BOROUGH OF KETTERING.
 APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT.

 Applications are invited for the appointment of a Chief Architectural Assistant, in the Borough surveyor's Department, Kettering, at a salary within Grade VII of the A.P.T. Division of the National Scale of Salaries (£735×255-£810). In determining the commencing salary the experience of the successful applicant will be taken into consideratiom.

 Applicatis must be Registered Architects, and preference will be given to persons who are Associates of the Royal Institute of British Architects. Applicants must have had experience of local authority housing schemes.

 The appointment will be subject to the National Scheme of Conditions of Service and to the successful camidiate's passing satisfactorily a unedical examination.

 The Council will consider the provision of housing accommodation if necessary.

 Applications, stating age, qualifications, experimence, past and present appointments, and the undersigned not later than the 11th September, 1954.

 D. DUNSFORD PRICE.

D. DUNSFORD PRICE. Town Clerk

Town Clerk's Office, Kettering. 3808

CITY OF BATH. CITY OF BATH. CITY PLANNING OFFICE AND ARCHITECTS' DEPARTMENT. Applications are invited for appointment as ARCHITECTURAL ASSISTANT. on A.P.T., Grade III (£50-£595), in the above department. Applicants must have passed the R.I.B.A. Inter-mediate Examination, and have had at least two years' practical office experience in Municipal Housing and be a quick and accurate draughts-man.

Applications, stating age and particulars of training, qualifications, experience, present and past appointments, together with names of two persons to whom reference can be made, must reach the City Planning Officer and Architect, 7, North Parade Buildings, Bath, not later than 13th September, 1954. (Sgd.) JARED. E. DIXON, Town Clerk. Swildhall Bath

3831

Guildhall. Bath.

Annuall, Bain. 3831 PADDINGTON BOROUGH COUNCIL require (a) ASSISTANT ARCHITECT (\$725.6840 p.a.) (A.171), preferably A.R.I.B.A., with experi-ence in contemporary design, the construction and supervision of general Municipal works, particu-larly multi-storey flats, or should have had similar experience with architects in private practice. (b) ARCHITECTURAL ASSISTANT (£530.4625 p.a.) (A.172). Candidates should have passed Inter. R.I.B.A., be neat and accurate draughtsmen. and possess a sound knowledge of modern building construction.

Construction. Commencing salary in each case dependent upon qualifications and experience of successful candi-date. N.J.C. conditions. One month's notice. Applications (quoting reference No.) should state age. qualifications, experience, past and present appointment (with salary), and names and addresses of two referes, and should reach the undersigned by 8th September, 1954. W. H. BENTLEY. Town Hall, Paddington Green, W.2. 12th August, 1954. CHEEPEREDELEY.

12th August, 1954. 3694 CHESTERFIELD RURAL DISTRICT COUN-CL invite applications for the appointment of ASSISTANT ARCHITECT on salary scale 1-Y (£490-£670 according to qualifications. The appoint-ment is subject to the Scheme of Conditions of Service, to the Local Government Superannuation Act, 1937, and to the passing of a medical examination. All possible assistance will be given with hous-ing accommodation. Applications, one of the obtained from Mr. J. B. Wikeley, M.Eng., A.M.I.C.E. Barrister at law, Engineer and Surveyor to the Council, should be returned to the Clerk of the Council, should be returned to the Clerk of the Council, should be given by Statergate. Chesterfield, by 13th September, 1954.

LONDON COUNTY COUNCIL. ARCHITECT'S DEPARTMENT. Vacancies in District Surveyors' Service for ENGINEERS, Grade II. Salary: £892 108. to £1,071. A.M.I.Struct.Eng. (or equivalent). Struc-tural knowledge essential. Particulars and appli-cation form from Architect (AR/EK/DS/3), County Hall, London, S.E.I. Closing date, 22nd Sep-tember. (1149) 3819

LONDON COUNTY COUNCIL requires (i) an ARCHITECTURAL ASSISTANT for preparation of surveys, sketch schemes, working drawings and specifications for buildings and ancillary works in parks and open spaces, and (ii) LANDSCAPE DESIGNERS for preparation of surveys, sketch schemes, working drawings and specifications for lay-out of garden areas to housing estates. Salaries according to qualifications and experi-ence. Application forms from Chief Officer, Parks Dept., Spring Gardens, S.W.1. (906)

CANNOCK URBAN DISTRICT COUNCIL. Applications are invited for the following appointment in the Architect's Department:-ULANTITY SURVEYOR. Salary within Grades A.P.T., VII (4735-4840) and A.P.T., VIII (2785-4800). A.B.I.C.S. required, to take charge of Section to enable junior officers to take qualifying ex-minations.

aminations. HOUSING ACCOMMODATION AVAILABLE HOUSING ACCOMMODATION AVAILABLE for married candidates. Further particulars and forms of application are available from the undersigned. Closing date: 15th September, 1954. W. C. SPEEDY, W. C. SPEEDY, Clerk of the Council. Council House, The Green, Cannock. 26th August, 1954. 3844

 26th August, 1954.
 Dotted

 LINDSEY COUNTY COUNCIL, COUNTY ARCHITECT'S DEPARTMENT.

 Vacacies on the permanent staff for:—

 (a) ASSISTANT ARCHITECT, A.P.T. 7-8, 2735, rising to e660. Candidates musis he A.R.I.B.A., and preferably had experience in design of schools.

 (b) SENIOR ARCHITECTURAL ASSISTANT, A.P.T. 5-6, 6202, rising to 2750. Candidates musis be A.R.I.B.A.

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BUCKS COUNTY COUNCIL. Applications are invited from ARCHITECTS. who are capable designers and really interested in Architecture, to fill a permanent post on the staff of the County Architect, and to work on a large and interesting building programme. Salary: J.N.C., Scale "A," £925-£1,075 per annum

Salary: J.N.C., Scale I., annum. A weekly allowance of 25s, and return fare home once every two months may be paid for six months to newly appointed married officers of the Council unable to find accommodation. Applications on forms, giving further particulars of the appointments, obtainable from F. B. Pooley. County Architect, County Offices, Aylesbury, and returnable by Monday, 27th September, 1954. 3845

COUNTY OF LEICESTER. SENIOR ASSISTANT ARCHITECT (C735-C260). Candidates must be Registered Architects, should have good experience in the design and construction of modern buildings; be capable of carrying through projects from inception to com-pletion; and if necessary able to take charge of a group.

Apply by 20th September on form obtainable from County Architect, 123, London Road. 3882

CORBY DEVELOPMENT CORPORATION. Applications are invited for the under-mentioned appointments in the office of the Chief Architect: —

mentioned appointments in the office of the Chief Architect:— OUANTITY SURVEYORS (TWO). Salary within the scale £630×£30-£750 (subject to review in September). The appointments are subject to one menth's office on either side, the provisions of the Local Government Superannuation Act, and to the pass-ing of a medical examination. Applications, stating age, education training. Applications, stating age, education training, undifications, experience, past and present appointments and salaries. together with the undersigned not later than the 11th September, 1954, in envelopes endorsed "Appointments." Housing available. R. BROOKS GRUNDY. General Manager. Spencer House, Corporation Street. Corby, Northants. 3848

COUNTY BOROUGH OF WEST HARTLEPOOL. BOROUGH ARCHITECT'S DEPARTMENT. APPOINTMENT OF ASSISTANT ARCHITECT, GRADE A.P.T. III. Applications are invited for the position of ASSISTANT ARCHITECT, Grade A.P.T. III (4550 × £15-£596) in the Borough Architect's Department. The appointment is subject to the Scheme of Conditions of Scheme of Conditions of Scheme of

(2550 × 215-2556) in the Borough Architect's Department. The appointment is subject to the Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, and to the Local Government Superannuation Acts, 1937 to 1953. The successful candidate will be required to pass a medical examination. Applications stating age, experience and quali-fications, together with copies of not more than three testimonials, should be addressed to the Borough Architect. Municipal Buildings, West Hartlepool, and received by him not later than Friday, 17th September, 1954. ERIC J. WAGGOTT.

ERIC J. WAGGOTT, Town Clerk.

3822

Town Clerk's Office, Municipal Buildings, West Hartlepool. 23rd August, 1954.

SOUTHERN ELECTRICITY BOARD. QUANTITY SURVEYING ASSISTANT. N. 4 (Bournemouth) Sub-Area Office. Salary N.J.B. Class L, Grade 13, Column 1 (£616 per annum). N.J.B. Conditions of Service. Applicants should be capable of preparing esti-mates, Bills of Quantities and of measuring up and dealing with contractors' accounts relating to light industrial buildings, offices and Service Centres.

light industrial buildings, due to centres. The successful candidate will be required to contribute to the B.E.A. and Area Boards' Super-annuation Scheme, if eligible. Applications on the standard form obtainable from the Sub-Area Secretary, 1. Priory Road, Bournemouth, and returned to him in envelops suitably endorsed not later than 16th September, 1954. 3824

BOROUGH OF BRENTFORD AND CHISWICK. JUNIOR ARCHITECTURAL DRAUGHTSMAN. Applications are invited for the above-mentioned temporary appointment in the Borough Engineer & Surveyor's Department at a salary commenc-ing on the first year of Misc. Division Grade III (£396-£460) of the National Scheme of Conditions of Service (plus appropriate London weighting). Applicants should be well experienced in the tracing and colouring of architectural drawings and have a working knowledge of building con-struction.

struction

Applications giving details of previous experi-ence and qualifications, together with copies of two testimonials, should be forwarded to the undersigned not later than 12 noon on 13th September, 1954. W. F. CHURCH, Town Clerk. 3828

Town Hall, Chiswick, W.4.

CITY ARCHITECT'S DEPARTMENT, EDINBURGH. Applications are invited for the undernoted

(3) TEM PORARY ASSISTANT with experience in Drawing Office. Salary £450 per annum.
 (4) APPRENTICE ARCHITECT, must be of educational standard for acceptance by College

of Art. Apply by letter giving full details and stating clearly which post is applied for, within 14 days of the appearance of this advertisement, to A. Steele, City Architect, City Chambers, Edinburgh 1. 3830

COUNTY BOROUGH OF WEST BROMWICH. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT. Applications are invited for the following per-manent appointments:-(a) SENIOR ASSISTANT ARCHITECT, Grade A.P.T.VII (#735-#810). (b) ASSISTANT ARCHITECT, Grade A.P.T.V. (#680-#6570).

(£620-£670), (£620-£670), (c) ARCHITECTURAL ASSISTANT, Grade A.P.T.IV (£580-£625), N.J.C. Conditions of Service, Applications, naming two referees, to Borough Surveyor, Town Hall, West Bromwich, by 16th September, 1954.

Tenders for Contracts

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

WORCESTERSHIRE COUNTY COUNCIL. Tenders are invited for the development of the County High School, Redditch. Applications for Bills of Quantities, etc., accompanied by a deposit of 5 guineas, which will be returned on receipt of a bona fide tender, must be sent to L. C. Lomas, F.R.I.B.A., County Architect, 14, Castle Street, Worcester, not later than 13th September, 1954. (R.146)

Architectural Appointments Vacant

4 lines or under. 7s. 6d.; each additional line. 2

A times or under, Ts. 6d.; each additional line. b
 A times or under, Ts. 6d.; each additional line. b
 The engagement of persons answering them advertisements must be made through a Local Office of the Ministry of Labour or a Schedular of Vacancies Order. 1952.
 A SSISTANT (at Intermediate stage) required to account of the Ministry of Labour or a Schedular of Vacancies Order. 1952.
 A SSISTANT (at Intermediate stage) required for Architects' London office engaged is of the Notification of Vacancies Order. 1952.
 A for Architects' London office engaged is oportunities for supervision of works and Colleges. Appointment offers excels on a candidate with initiative. Salary 2350 per annum. Box 2974.
 R London area, young qualified ASSISTANTS interested in design and construction. Write, state specience and salary required. Box 235.
 A ECHITECTURAL ASSISTANTS required ASSISTANTS for Salary ASSISTANTS and DRAUGHTSMEN for Assistrants for a Salary 235.
 M SONTAR A SENIOR ARCHITECTURAL ASSISTANTS for a Salary 235.

ARCHITECTURAL ASSISTANT required intermediate standard or above, apply Ward & Woolnough, 8, South Brink, Wisbeed,

SENIOR ASSISTANT required in Architect's Department of large London industrial concern. Knowledge of London Building Acts and By-Laws an advantage. Good prospects; pension scheme. State age, experience, and salary required. Reply Box 3733.

required. Reply Box 3733. KEN and reliable SENIOR ASSISTANT ARCHITECT. capable of preparing working for varied private practice in Eastern Counties. State age, salary, and experience to Box 3725. Lange Contractors require ASSISTANT ARCHITECT in their Manchester Office. Com-mencing salary 2700. Apply Box 3683. Sologe Contractors require ASSISTANT ARCHITECT in their Manchester Office. Com-mencing salary 2700. Apply Box 3683. Sologe Contractors require ASSISTANT ARCHITECTS, aged 25 to 35, willing to work in London, Baghdad or Rangoon as required. Appl-cants should write in the first instance giving ful details of their experience, age, present salary and salary required, also country preferred, to 3 Hobart Place, London, S.W.1. Only first class opportunities for permanencies and a pension scheme is in force. ARCHITECTURAL ASSISTANT up to Final

scneme is in force. 3638 A RCHITECTURAL ASSISTANT up to Final R.I.B.A. standard, required in Reading Office of Chartered Architects. Applicants must be capable of making surveys, preparing working drawings, details, etc. Apply in writing giving full particulars, age and salary required to Bor 3600

SSISTANT (Final Standard) required for expanding General Practice in the Mid-ls. Progressive Position. Full particulars (p 7419 A lands. F Box 3618

RONALD WARD & Partners require several ARCHITECTURAL ASSISTANTS, inter-mediate standard, Apply Mr. Robinson or Mr. Walker, TATe Gallery 1925.

Walker. TATE Gallery 1925. 398 PPLEBY-FRODINGHAM Steel Company-Sunthorpe, Lincs., have a vacancy for an ARCHITECTURAL DRAUGHTSMAN. Appl-cants must be capable draughtsmen with a good knowledge of modern building construction and finishes. Staff Pension Scheme and welfare facili-ties available. Applicants should apply in writ-ing, giving age, full details of previous experi-ence, and salary required, to the Works Employ-ment Officer. A RCHTECTURAL ASSISTANT wanted at an

A RCHITECTURAL ASSISTANT wanted at an carly date for private practice in Midland County Town. Must be good draughtsman and designer, capable of preparing working draughtsman and designer, capable of preparing working draughtsman and designer. As a state of preparing working draughtsman and designer. Capable of preparing working draughtsman and designer. Capable of preparing working draughtsman and designer. Bennet and construction of large scale and important work. Give full particulars. J. R. Royd Barrett. A.R.I.B.A., F.R.I.A.I., 5, Camden Place. Cork. Eire. 3711

A RCHITECTURAL ASSISTANTS urgently required : Intermediate standard or above for work of an interesting character. Good Salary. Box 3718

M. GEAB, A.R.I.B.A., at 12, Manchester Square, London, has vacancies for ARCHI-TECTURAL ASSISTANTS, of Intermediate of Final standard, interested in the design of pre-fabricated structures. Apply above address. 378

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Full open THE

A RCHITECTS. ASSISTANTS required. R.I.A.S. Pension Scheme in operation. Applications, stating age, particulars of experience and salary required, to Wylie, Charlered Architects, 12 Clairmont Gardens, Glasgow, C.3.

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THE SECRETARY (A)

SENIOR and JUNIOR ARCHITECTURAL ASSISTANTS required by Architect's Depart-ment of South West London Building Contractors, mainly engaged in Estate development around London. Write stating age, qualifications and slary required etc., to Box 3763.

SSISTANT wanted in South Devon town. Intermediate standard. Box 3772.

A Internetiate Standard. Box 3772. A SENIOB ARCHITECTURAL ASSISTANT required, full experience in preparation of Working Drawings, Details, and supervision of office and Industrial Buildings in the London Area. Good knowledge of construction and design seential. Apply in writing giving full particu-lar of qualifications, age, experience and salary required to Box 9829.

ASSISTANT ARCHITECT. COURTAULDS LIMITED require two ASSIST-and an an anti-action of the assistance of the assist of a war initiative on a wide variety of industrial buildings. Age 25/40. Candidates should write for a detailed form of application to the Director of Personnel, Courtaulds Limited, 16, St. Martin's-leGrand, London, E.C. 1, quoting the reference amber, B.18. 3695

A RCHITECTURAL ASSISTANTS required of intermediate and final standard, preferably with office experience. Write stating age, experi-

ASSISTANT of R.I.B.A., Inter, standard or over, required in Architect's Department in City of London. Should be between 25 and 30, with several years' office experience. Secure future and interesting good class work. Write, gring particulars of experience, age, and salary required. Box 3842.

Tequired. DOX 3942. A BCHITECTURAL ASSISTANTS required for Bristol office, with large and varied practice. Applicants should have recently qualified or have passed R.I.B.A. Intermediate and be studying for Fnal. Apply in writing, giving age, experience, and salary required, to W. H. Watkins, Gray, FF.B.I.B.A. and Partners, 1, Clare Street, Bristol, 1. 3841

The second secon

ence and salary required to Box 3858. ARCHITECTURAL ASSISTANT (Junior) required within next few weeks for private office in Edinburgh. Must be enthusiastic and have good experience. Salary by arrangement. Write to Messrs. David Carr & Stuart Matthew, 1. Lynedoch Place, Edinburgh. SENIOR ARCHITECTURAL ASSISTANT required immediately. Salary by arrange-met. Write Messrs. Carr & Howard, 14, Lyne-deck Place, Edinburgh. 3856 ARCHITECT Assistant required by large

A BCHITECT. Assistant required by large A firm of Contractors (Birmingham). Must be capable of preparing new schemes of moderate size, alterations, extensions, and working details for Contract Work. Excellent opportunity for ambitious and energetic individual. Pension scheme. Apply, stating age, experience, qualifica-tions, references, and salary required, to Box 3838.

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DBAUGHTSMAN (Architectural). Private London practice. Knowledge of building in London, able to produce good detail drawings. Qualifications not essential. Excellent prospects. Fullest details to Box 3849.

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ONE SENIOR and one JUNIOR ASSISTANT required. Must have sound knowledge of working drawings and construction, and also be interested and experienced in the preparation of sketch schemes and competition drawings. Write stating experience and salary required, to Louis de Soissous, Peacock, Hodges and Robertson, 3, Park Square Mews, Upper Harley Street, N.W.1. 3660 626

A RCHITECT'S ASSISTANT required (Senior) for West End office. Write stating full particulars and salary required to Box 3546.

A RCHITECTURAL DRAUGHTSMAN required in London office. Good experience and first cass draugntsmansnip essential. Five-day week. Salary £600-1650 according to experience. Box 2750. 3759

TECHNICAL ASSISTANT required in Birming-ham to prepare Schemes for alterations, maintenance and small new works and co-ordinate to completion. Architectural or high degree build-ing experience essential. Commencing £700/£850, according to experience. Box 3787.

JUNIOR DRAUGHTSMAN required for busy City office. Good prospects for energetic young man. Salary according to age and experi-ence. Westmore & Sanders, 121, Cheapside, K.C.2. 370

A RCHITECTURAL ASSISTANT (Male or Female) required for small office in West-minster. Salary £400-£600, according to experi-ence. Reply stating qualifications and experience to Box 3/93.

NORTHERN IRELAND. Qualified and experienced SENIOR ASSISTANT accus-tomed to handiing contracts and staff required for work on new Hospital works. Contemporary designer preferred. Two or three qualified ASSISTANTS also required for Hospital or general works. Full details to Box 3795.

A RCHITECTS' ASSISTANT Intermediate R.I.B.A. standard required in Norwich Office, state age, experience and salary required, Box 3796.

SENIOR, INTERMEDIATE & JUNIOR Archi-tectural ASSISTANTS required in West End Office engaged on housing, churches, offices, schools, etc. Write giving age, experience and training with salary required to Box 3799. All applications will be answered.

A RCHITECT'S ASSISTANT required in Archi-tect's Department of large London Brewery, capable of working on own initiative. Staff Canteen, Five-day week and pension scheme. Box 3800.

SENIOR ARCHITECTURAL ASSISTANT required with full experience in the prepara-tion of working drawings and details for both domestic and industrial buildings on a large scale. Good knowledge of construction and design essential. Permanent position with Pen-sion scheme in operation. Midlands area. Apply in writing, giving full particulars of qualifications, age, experience, marital status and present salary to Box 3804.

LONDON Architect, A.B.I.B.A., dealing with houses, flats and shops requires two ARCHI-TECTURAL ASSISTANTS, with office experience. Inter R.I.B.A. standard or above, capable of designing and preparing working drawings and specifications. Salary £550-£750 according to qualifications. Box 3805.

ONE SENIOR and One JUNIOR ASSISTANT required. Write stating age, experience, when available and salary required to Donati & Partners, Chartered Architects, 13, The Parade, Minehead. 3809

 Minehead.
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 ONE SENIOR and One JUNIOR ASSISTANT required. Previous office experience essential, knowledge and sympathy with contemporary design and construction. Salary according to ability and experience. Apply: David Stern, A.R.I.B.A., A.DIPL, 24, Gloucester Place, London. W.I. Tel.: HUNter 0451.

 ARCHITECT'S ASSISTANT required in West End office. Capable preparing working drawings, details and specifications, and super-vising small contracts, mainly commercial work. Apply, stating age, experience, and salary required. E. H. D., Box 3813.

 ASSISTANT wanted for traditional work. SISISTANT wanted for traditional work. Greenwood, FF.R.I.B.A., 13, Mansfield Street, London, W.I. Tel.: Langham 1838.

 ACHITECTURAL
 AND

A RCHITECTURAL AND SURVEYING ASSISTANT, experienced in the preparation of full working drawings and making of surveys, required by London Estate Developers. Apply, giving details of past employment and salary required, to Box 3815.

A RCHITECTURAL ASSISTANT (JUNIOR) required for North Devon office. State ex-perience, age, and salary required. Box 3817.

perience, age, and salary required. Box 3817. SUITABLY qualified person required immedi-ately as SENIOR CLERK OF WORKS. to supervise the erection of a large heavy engineer-ing factory in Northern Ireland, the construction of which is expected to last approximately three years. Applicants must have experience of hand-ling large building contracts, and particularly progressing of work. Salary offered is £800 per annum, subject to qualifications and experience. Applications, with full details of experience. Applications, with full details of experience, and when available, should be addressed to Box 1332, T. & G., 167, High Holborn, London, W.C.1. 3818

A SSISTANT at Intermediate stage required. A SSISTANT at Intermediate stage required. Full experience working drawings, details; good knowledge construction; quick, neat draughtsman. Salary range: e350-4450. Reply, giving age, general and technical education, and experience, to Mauchlen, Weightman & Elphick, Saville Row, Newcastle-upon-Tyne. 3227

A SILFANT ENGINEER or SURVEYOR re-deting out, etc. Preference given to applicants holding recognised qualifications, who must be able to drive. Application forms may be obtained from Personnel Dept. Taylor Woodrow, Ltd., Ruislip Road, Southall, Middlesex. 3832

A RCHITECTURAL ASSISTANT, of Final standard, preferably one who has finished Military Service. Please write, giving particulars of experience and salary required, Leonard J. Multon, F.R.I.B.A., 6, Greenfield Crescent, Bir mingham, 15. 3834

A RCHITECTURAL ASSISTANT required in small Newport (Mon.) office. Opening suit-able for student recently completed training. Reply, stating age, qualifications and experience, to Box 3837.

A BCHITECTS' ASSISTANT required in small Central London office. Up to or over Inter-mediate standard. Working drawings, details, etc. Office experience necessary. Box 3833.

IVERPOOL.—SENIOR and JUNIOR ASSIS-TANTS required for all stages of work on Stores and Office buildings. Salaries in region of 2700, and 2350 on experience and ability. Details at once to G. de C. Fraser, Son & Gearey, 27, Dale Street, Liverpool. 3851

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ENROLMENT

13th to 17th September, 1954 (Full-time and Part-time day courses). 20th to 24th September, 1954 (Evening courses). Further particulars from the Secretary. (954)

SENIOR ARCHITECTURAL ASSISTANT required by a major oil company under-going rapid expansion, for its London Head Office. Applicants must be capable of supervising and carrying out work on the design and remodelling of service stations. Pension and Life Assurance, generous sickness benefits, luncheon voucher scheme, social club. Write giving full details stating age. experience, and salary required, quoting reference SAA 258 to Box 3829. SENIOR

Architectural Appointments Wanted

A RCHITECT, A RCHITECT, semi-retired, active, seeks appointment Architects or Estate Agents office. Drawings, specifications, site supervision, general duties. Whole or part-time. Moderate salary. South preferred. Box 3501.

A. R.I.B.A., Dipl.T.P. (37), seeks appointment. Wide experience, including own private practice. Box 3803.

A. B.I.B.A. (40) seeks position as PRINCIPAL ARCHITECT with Industrial or other required. Industrial and public buildings experi-ence, and accustomed to control of large staff. Salary & 1.100 minimum; London area preferred. Box 891.

A BCHITECT, qual., seeks responsible post in Middle East, after long experience there. Can be completely relied upon. Languages: French, Arabic. Excellent connections. Box 3002.

SENIOR ASSISTANT, L.R.I.B.A. (45) seeks position, with prospects. Any district or country considered. At present in Eire. Experi-enced industrial, commercial, domestic, site super-vision. Keen draughtsman. Box 3850.

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VACANCY arises for Articled Pupil (Architec-tural or Building Surveying) in City Firm. Box 1720.

F. R.I.B.A. has OFFICE ACCOMMODATION to offer a younger architect wishing to sart in practice, in return for small rental plus partial service... Details will be provided on application. service. Box 3825.

OLD-ESTABLISHED Mutual Life Assurance House wants a few men of initiative and integrity to act as AGENTS. Architects and Sur-veyors have the necessary knowledge and contacts to make business most profitable to us and them. Further details from Box 1857.

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SECRETARY to the Junior Partner required by small but busy firm of Architects three minutes Holborn Station. Would also be required to do other shorthand-typing. Please write giving experience and salary required to Clifford Culpin & Partner, 3, Southampton Place, W.C.1. 3789

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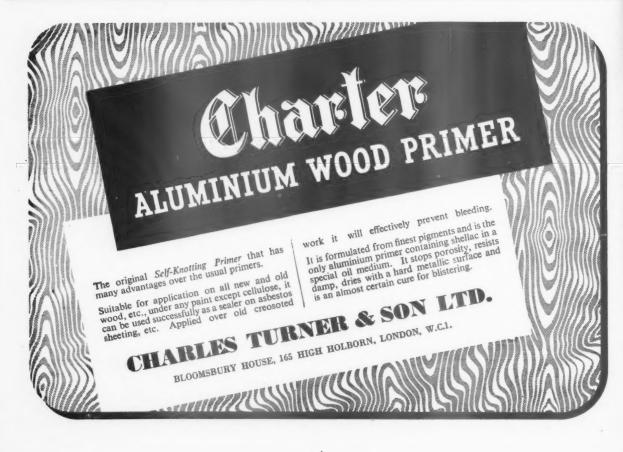
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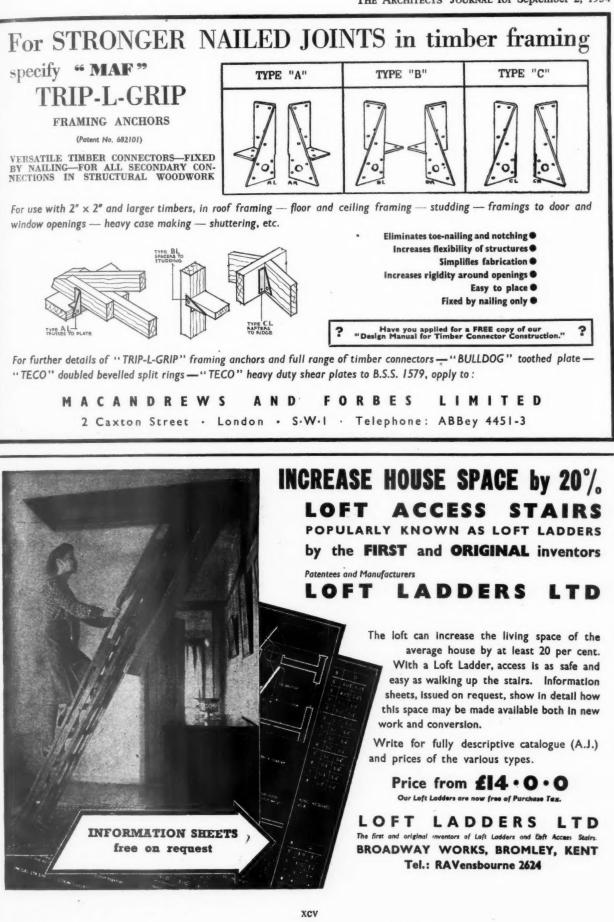
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