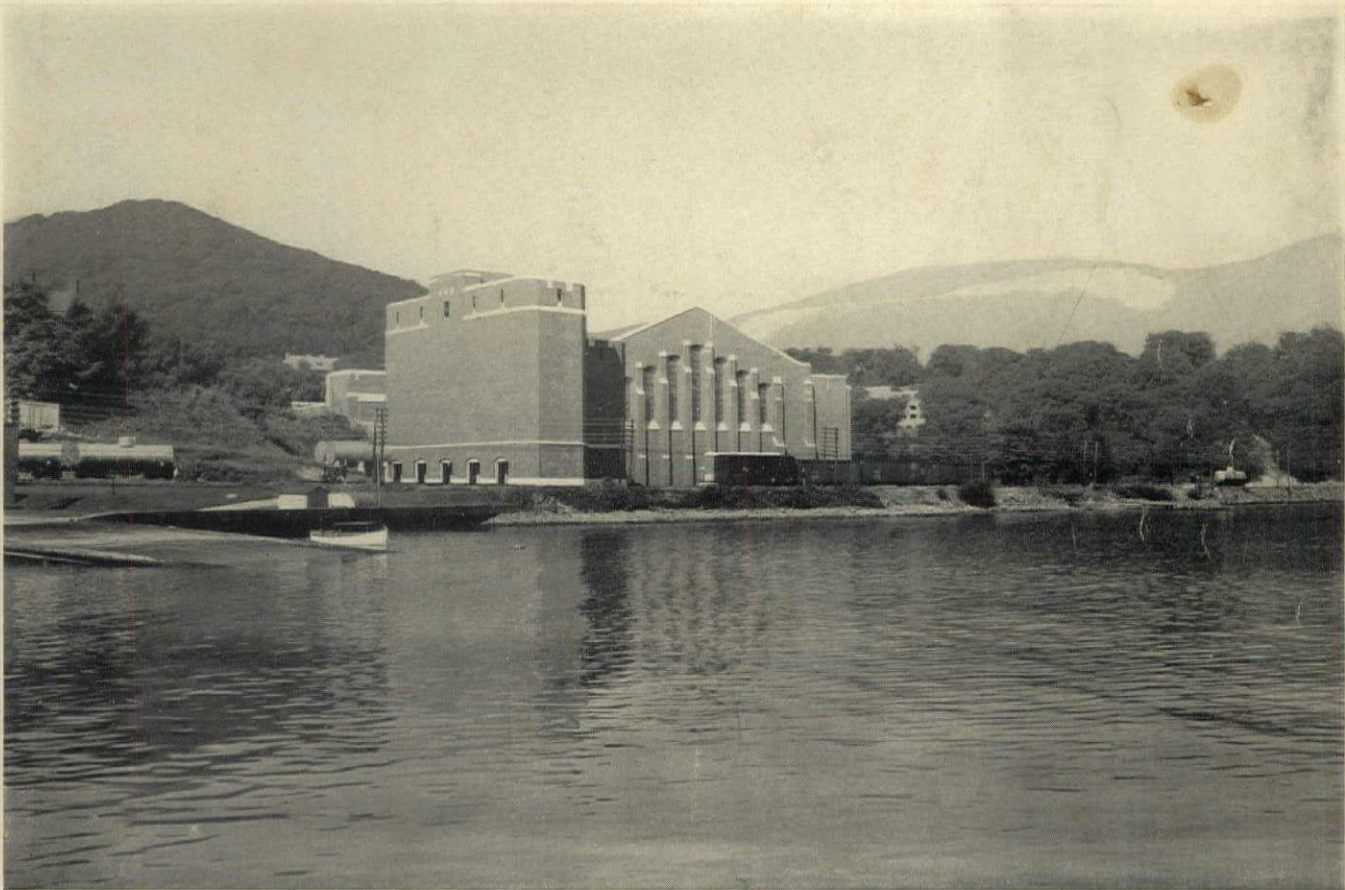


THE FEDERAL ARCHITECT



WEST POINT

*Published for the Association
of Federal Architects*

*October, 1938
Vol. 9, No. 2*

Containing
A SURVEY OF FEDERAL
ARCHITECTURAL OFFICES

For softly diffused shadowless Light, use L·O·F Vitrolux, the color-fused, tempered plate glass. For Mirrors, L·O·F polished plate glass clear or in colors.



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In the new Vitrolite toilets and washrooms, beauty, color and the immediate sense of sanitary cleanliness are conspicuous features.

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The defacing hand that leaves its erotic messages on so many old-style toilet room walls, is completely baffled by the glass-hard surface of beautiful Vitrolite.

Because it is basically glass it is easily kept immaculate. Just a damp cloth will keep it like new for years—at a very minimum of cost for maintenance.

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LIBBEY·OWENS·FORD *Vitrolite*
STRUCTURAL GLASS

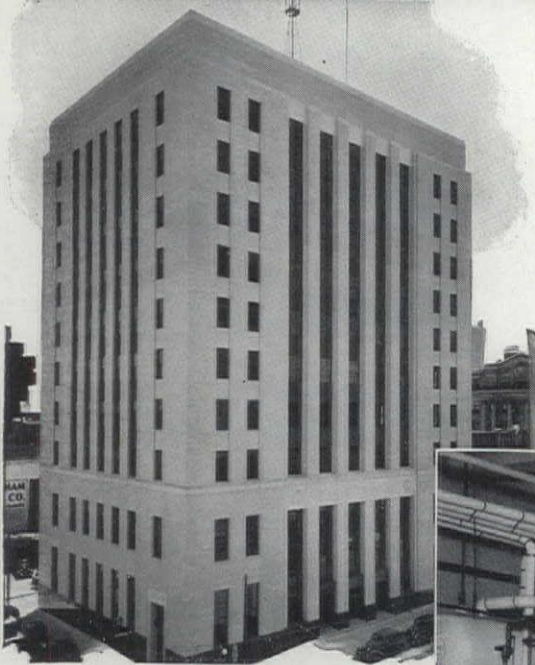
LIBBEY·OWENS·FORD GLASS COMPANY
1319 Nicholas Bldg., Toledo, Ohio
Please send Vitrolite color chart; also newest literature describing Bathrooms and Kitchens Storefronts Construction details.

Name.....

Address.....

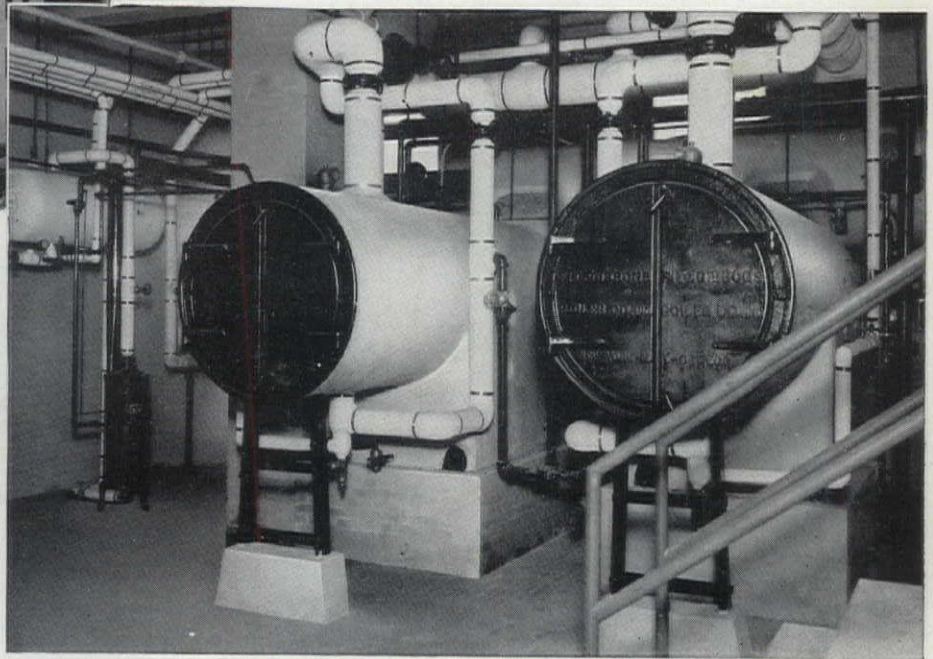
City.....State.....

THE NEW FEDERAL OFFICE BUILDING AT HOUSTON, TEXAS



A building like this deserves its fine heating installation

The imposing and modernly beautiful Federal Office Building at Houston, Texas, was sponsored by the Treasury Department Procurement Division, Mr. C. J. Peoples, Director of Procurement. The Supervising Architect was Mr. Louis J. Simon, and the Supervising Engineer, Mr. Neal A. Nielick. Right in line with the character of the building, note the splendidly appointed boiler room. The entire heating job was installed by the National Company, heating contractors of Winston-Salem, North Carolina.



FITZGIBBONS BOILERS

Fitzgibbons large boilers have maintained their high reputation for almost two generations. In capacities all the way from 1800 to 35,000 sq. ft. S.H.B.I. rating, and in types for all fuels, they provide a complete line in this field of heating. Specifications and full details upon request.

were selected to heat the beautiful Federal Office Building at Houston, for the same reasons that controlled their selection in hundreds of other similar structures particularly since the inception of the new specifications May 1st, 1931. Broadly speaking, these reasons are Fitzgibbons service and dependability in furnishing and shipping products in accordance with specifications.

Cooperation to an exceptional degree has always characterized Fitzgibbons dealings. Architects depend upon it in working out heating systems — contractors and heating engineers value it in assuring thoroughly satisfactory installations. It is a vital factor in the heating economy records enjoyed by the many institutional and private buildings in which Fitzgibbons large boilers are operating.

Fitzgibbons Boiler Company, Inc.

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ARCHITECTS BUILDING, 101 Park Avenue, New York, N. Y.

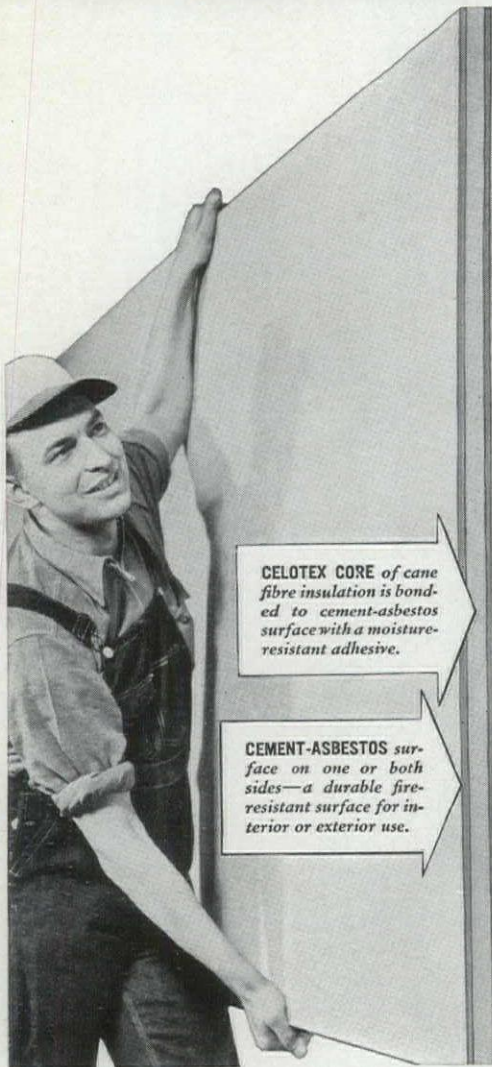
Works: Oswego, N. Y.

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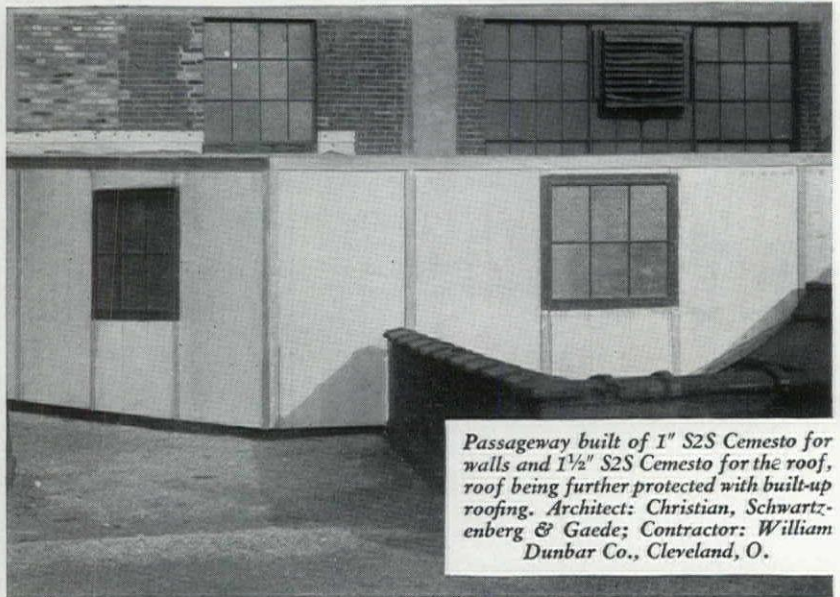
BUILT *In One Operation* WITH

CELOTEX
REG. U. S. PAT. OFF.
CEMESTO
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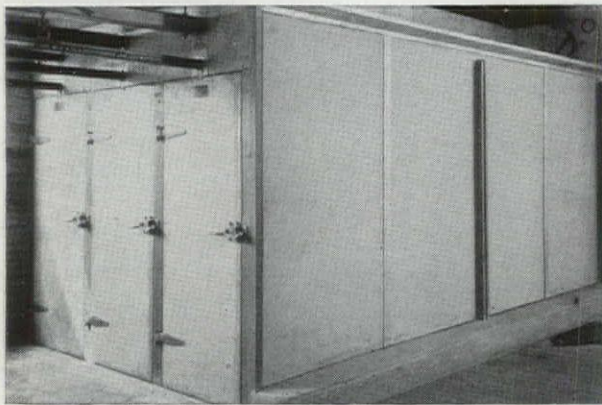
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CEMENT-ASBESTOS surface on one or both sides—a durable fire-resistant surface for interior or exterior use.



Passageway built of 1" S2S Cemesto for walls and 1½" S2S Cemesto for the roof, roof being further protected with built-up roofing. Architect: Christian, Schwartz-enberg & Gaede; Contractor: William Dunbar Co., Cleveland, O.

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CEMESTO
REG. U. S. PAT. OFF.

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The FEDERAL ARCHITECT · OCTOBER, 1938

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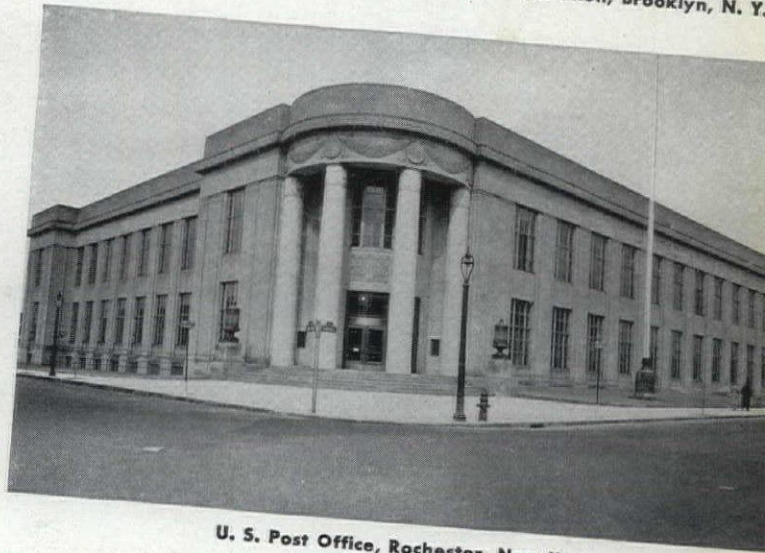
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WERE USED ON THESE
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K O P P E R



THE FEDERAL ARCHITECT

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Vol. 9
No. 2

OCTOBER, 1938

EDWIN B. MORRIS, *Editor*

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IN BIG INSTALLATIONS . . .



(Left) **Stuart Building**, Lincoln, Nebraska. "Freon" refrigeration for air conditioning by Airtemp.

(Right) **Florida National Bank Building**, Miami. George A. Fuller Co., contractors. March & Saxelby, architects. Massena & Du Pont, consulting architects. "Freon" refrigeration for air conditioning by Pennsylvania Engineering Co.



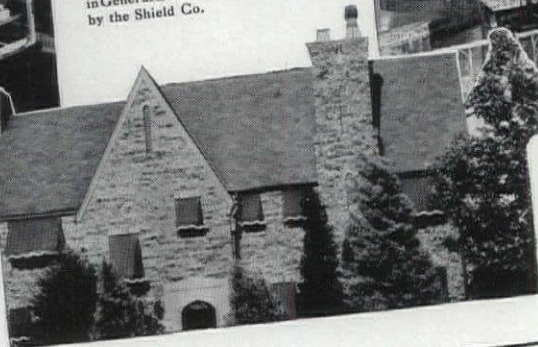
(Above) **Owens-Illinois Glass Co.**, Pacific Coast offices, San Francisco. Engineered installation by Edward B. Ward Co. "Freon" refrigeration for air conditioning by Westinghouse.

AND IN SMALL ONES TOO . . .



(Above) **Busy Bee Candy Store**, St. Louis, Missouri. "Freon" refrigeration for air conditioning by the Frick Co., Inc.

(Below) **W.A. Moncrief residence**, Ft. Worth. "Freon" refrigerant used in General Electric equipment installed by the Shield Co.



(Above) **Black's Tea Room**, one of a number of stores and offices air conditioned in the Palmer Building, Atlanta, by advanced Engineering, Inc. Newcomb & Boyd, consulting engineers. "Freon" refrigerant in Delco-Prigidaire equipment.

IT'S FREON*

refrigerants for safe air cooling!

IT'S NATURAL INDEED that leading refrigeration engineers should specify "Freon" refrigerants so regularly. For "Freon" refrigerants are leaders in *safe air cooling*.

"Freon" refrigerants have all the qualities that are desired for air conditioning and commercial and household refrigeration, and they are widely used for these purposes. They have been tested by the United States Bureau of Mines, and meet all the specifications for safety set by the Underwriters' Laboratories of Chicago. Be sure you specify "Freon" safe refrigerants in your next installation.



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KINETIC CHEMICALS INCORPORATED
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LETTER FROM JUDGE WETMORE

Coral Gables, Florida
October 20, 1938.

Dear Morris:

I'm back in my den after a round trip flight to that far away country where old people love so much to linger—"The Land of Used-to-be"—made immortal by James Whitcomb Riley. It is densely populated for none die there. I saw a familiar coterie that causes me to inquire whether your service in the Supervising Architect's Office has been long enough so that you knew the triumvirate of the old drafting room, consisting of Klemroth, a veteran draftsman who served away beyond the compulsory age now set for retirement, and who afterward used to drop in to see us after he had passed the age of ninety years; Sid Neely who, lacking both skilled labor and finished material, built the American Compound in China, following the Boxer Uprising, and Major Hossford, who was transferred to the field service at his own request and wrote the office a description of a lynching at Deadwood that he witnessed. A rope was thrown over the cross-bar of a telegraph pole and the unfortunate victim left dangling between heaven and earth. During the night the rope broke and the body fell to the ground. Next day a Coroner's jury returned a verdict that the man had come to his death *from a fall in the street*.

More than half a century ago I was the private secretary to the Chief Clerk of the Treasury Department. One morning during the first Cleveland administration, Secretary Manning arrived at the De-

partment considerably after nine o'clock and found such a congregation of tardy employees around the elevator that he was somewhat delayed in reaching his office on the second floor. He sent for Mr. Youmans, the Chief Clerk, and directed him on the following morning to have a count quietly made of the number of tardy ones. There were over three hundred! Astonishing, wasn't it, considering present day discipline? Then the Secretary directed that on the following morning the watchmen take the names of the belated ones. The number was approximately the same. From that time on, for a considerable period, tardy employees were given a slip and required to report to the Chief Clerk, with an opportunity to present their excuses, if any. The rapid fire comments and admonitions of the Chief Clerk had a salutary effect. These cases were disposed of with the rapidity of a modern police court hearing, which they very much resembled.

Klemroth was very clever at cartooning, and he drew one on which he placed the caption: "Northeast Entrance, Treasury Building, 8:59 A. M." This entrance, by the way, no longer exists. It was replaced by a window subsequently when improvements were made to the east front. When it was there it was reached by three or four steps leading down to the basement. Klemroth's cartoon showed a motly crowd hastening to get "under the wire" by nine o'clock. There was a one-legged Civil War veteran, wearing the remnants of his uniform, scurrying along on crutches, an empty trouser leg streaming out behind him in a confusing spiral, symbolic of speed; a bedizened huzzy pushing her way through the crowd, exhibiting an interesting expanse of hosiery; young men and women and "those who stooped with age," all shoving, crowding and jostling to get inside before the stroke of the nine o'clock bell. The effect produced by the cartoon was to remind one of an army of frightened rats striving simultaneously to get into a hole.

"Klem," as he was affectionately called, showed his cartoon to a number of persons, and there was such an instant and insistent demand for copies that he had it mimeographed and gave them out indiscriminately. One of these fell into the hands of the Chief Clerk who was so amused with its cleverness that he had it framed and hung on his office wall. A few days later when the crowd of delinquents had been materially thinned out, the Chief Clerk observed a dignified appearing gentleman seated to one side in an arm chair. Thinking the gentleman might be a caller on official business he invited him to step over and be seated by his desk. Upon being asked as to the nature of his business the gentleman stated that he had been tardy that morning and had called to present his excuse. The Chief Clerk asked him to state the place of his employment and his name. The gentleman replied that he was employed in the Office of the Supervising Architect, and that his name was Klemroth. "Klemroth! Klemroth!" said the Chief Clerk, "Seems to me I have seen that name somewhere recently." Klemroth piped up: "Maybe you saw it on that sketch hanging on your wall." "Did you draw that?" asked the Chief Clerk. "Unfortunately, yes,"

(Continued on page 66)

FORMICA

Brings a Building Lobby
UP TO DATE!



This striking job in red Formica shows how simply an old-fashioned marble lobby can be brought up-to-the-minute by the use of flat surfaces of Formica. It is an extremely useful material for modern effects... There are more than 70 colors and patterns, including linen finishes, and irregular effects of many sorts. There are several surfaces, high gloss, satin, morocco. Inlays of one color over another or of metal make attractive simple designs of all kinds possible... Let us send you all the facts.

● **BEFORE:** This photograph shows the lobby of the office building at 261 Broadway, New York as it was a few months ago — an attractive marble treatment in good condition, but old-fashioned.

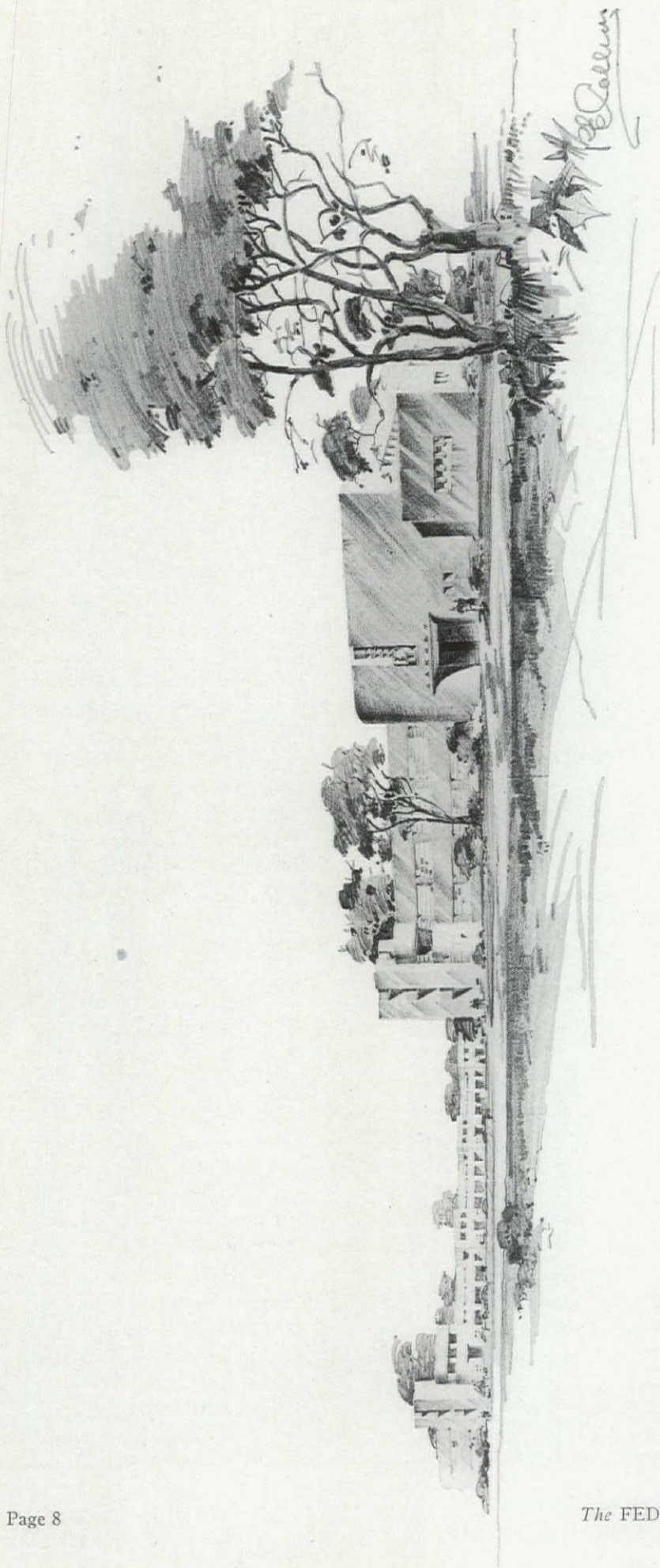
● **AFTER:** This photograph shows how the same lobby was thoroughly modernized by Eugene Schoen, architect, by the use of Formica refinishing stock on asbestos, and metal trim.



THE FORMICA INSULATION CO.
 4620 Spring Grove Avenue
 Cincinnati, Ohio

FORMICA

FOR BUILDING PURPOSES



SKETCH FOR BARRACKS
AND ARMORY

Bureau of Yards and Docks,
Navy Department, Architects.

Rendering by P. E. Collins



THE FEDERAL ARCHITECT

Published for the Association of Federal Architects
1700 Eye St., Washington, D. C.



■ THE question as to whether the Government should do architectural work has been discussed by wiser minds than ours. The question however of how the Government does such architecture as it performs is within the scope of our intellect—or if not fully within, it's a close enough decision so we can go ahead.

We therefore got together all the Governmental directories and indexes we could find, consulted oldest inhabitants, bureaus of information and so on and generally gathered together and wrote down (on tiny pieces of paper, backs of envelopes, cards announcing low-priced suits for stout business men) the names of agencies doing construction or architectural work—either on their own, or in conjunction with private architects, or as advisory bodies or as offering financial aid or guarantee based upon the approval of the architectural project involved.

There are many persons who believe that a large percentage of these agencies do not justify their existence. At the moment we are not discussing that phase of the situation, which could bring forth many interesting remarks for and against. We are simply compiling a dictionary of the services, with something concerning their personnel and something concerning the scope of their architectural work.

We believe that no full diagram of all these services has ever been made before and feel that such a diagram cannot but be useful to those interested in architecture and the fringes of architecture.

This diagram or survey will therefore be found in the pages of this number. Within the breasts of the persons in charge of these

bureaus or agencies beat hearts of gold. It may be demonstrable that they are misguided and should, rather, be in private practice. But, be that as it may, these architects give to Government architecture and thus to the mother art all the zeal, the soul, the product of inspiration that they would give were they in private practice.



■ A NEAR relative of ours stood, consumed with haste, at the corner of Seventh and F Streets in Washington waiting for a taxi. Now it is a strange thing that, in the national capital, where taxis ordinarily are as plentiful as mosquitoes at a summer resort, in moments of stress and urge they shrink away to almost non-existence.

Our relative waited hopefully, watching the precious minutes fall away forever into oblivion. At length a gaudy vehicle hove into sight, stopped and its door was opened by a somewhat hesitant driver. "Do you mind," he asked, "sitting in there with a couple of automobile tires?"

She responded graciously that she did not and entered to share the rear seat with the products of Firestone. "I have to stop, up the street here, and leave the tires," the operator of the car continued. "It will take but a minute."

This statement left the lady in a somewhat nervous state. But she was philosophically inclined and decided that while the car stopped at the automobile place she would go in and buy an accessory for her own car that she had long been trying to remember to get.

When they arrived at the shop, passenger and driver and tires entered at the same time. A clerk advanced. "If you don't mind, madam," he said, courteously, "I'll wait on this taxi driver first. His earnings depend on the amount of time he can be on the street."

She acquiesced. The business with the taxi-Mercury was transacted while she waited.

Then the Mercury waited while she described the gadget she wanted, which the store did not have in stock, and they went out and entered the car again.

"I'll drive fast and make up for this delay," the man promised. So he drove fast for half a block until they came to a place where the city fathers had become dissatisfied with the sewer and were performing an operation requiring an incision for the full width of the street. A sign more or less peremptorily suggested a detour so they turned about and in a moment were back at the point at which our relative had entered the cab. At this spot there was a sharp report and the taxi went into puncture status, proving that its owner had not been a second too soon in taking his other tires to be repaired. He drove up to the curb.

"I am sorry," he said, letting our relative off at the exact square on the sidewalk at which he had originally discovered her, "that I can't take you any further."



■ **T**HE age of chivalry is not past. The other day a lady of our acquaintance drove up to a shop to get an electric clock she had left to be repaired. When we say *drove up*, we mean, to be exact, that she hovered around hunting for a place to park and at last in desperation parked double and rushed into the shop, hoping to be waited on at once and then to rush out again before the hussars plastered her car with tickets.

As might have been expected, however, this was the moment when all the sales force of the shop were occupied demonstrating radios, electric washers, refrigerators and unit air-conditioners. She looked hopelessly from the embattled demonstrators to her vulnerable vehicle jutting out into traffic like Cape Cod into the sea. Her imagination conjured up squads of hussars marching, with pencils in their puttees, to slap summons and tickets on the jutting jalopy. Goose-pimples of apprehension rose upon her.

And while she stood fearfully upon one high-heeled foot and her glance shuttled from car to ignoring sales personnel, her prayers, if any, were answered. A handsome young man entered briskly, removed his hat and

said: "May I help you?" She poked her identifying receipt-ticket at him and said: "Yes. It's that second clock from the end." With glorious speed he reached for the timepiece, dropped it curiously enough into a paper bag which was the nearest wrapping at hand, and shook his head when she proffered him the essential one dollar and sixty-five cents. "Give it to one of the men there. I don't work here."

Dazed she handed the funds to an abstracted salesman and as she went out to her car, still undiscovered by the dragoons, she asked her benefactor why he had officiated in the shop if he were not employed there.

"Oh," he said, with the light of a good deed well done shining in his glance, "I saw you were in a hurry and I thought I would help."

He raised his hat and, an angel in mufti or whatever you might call him, disappeared into the oblivion of a great city.



■ **A**RCHITECTURE is a curious thing. Its final result is judged from the standpoint of aesthetics. Its beginnings are wholly concerned with practical requirements.

An architect is an artist. On the old days he used to insist upon it by wearing funny pants and funny ties and funny little French goatees. But all the time, beneath the pants and the goatees he knew that he was, and must be, primarily a practical man.

He knew that he could not pick up any problem, with the hope of artistic success, unless he mastered all its mundane and severely practical needs and requirements. He must first be the worm before he could be the butterfly.

We have heard only fragmentary discussion of the recent competitions for type post-office designs, so we don't know what the general thought about them is. But our own thought is that the architects were hampered in their efforts to arrive at a satisfactory result by their lack of opportunity to go through the architects' traditional grubbing into needs and requirements.

That opportunity to grub and investigate could of course not have been given to the competitors. A treatise on the needs of a machine like a post-office and the methods under which a multiple-headed client like our Uncle

Sam is able to build would be of Bible-size.

Consequently the types have more the character of designs for a building rather than designs for a building for a specific purpose. There were very successful *tours de force* upon the theme of windowless end pylons with a fine stretch of glass area between. This eminently sound design theorem resulted, when applied to the postoffice problem, in the centre lobby where the public affixes stamps and addresses postcards being brilliantly lighted and the end section where the work-spaces occur not being lighted.

There were in many cases paved terraces on two sides of the buildings—monumental but blocking out precious light from the offices and other essential operations that must go on in the basement.

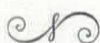
Other designs hinged upon the construction of porches over the city sidewalks, bringing into the picture legal complications of a territorial nature, since the building would then have been administered under the laws and control of the Federal government and the porches been administered by, and assumedly have been the property of, the State or City.

There is the possibility of a headache there.

All of which points to the very interesting and very satisfying thought that architecture is not merely the dreams of long-haired theorists, but the euphonious expression of an underlying and well-studied thought; and that architecture is at its best when the underlying thought is at its best stage of study and development.

We think of Vic Abel who, confronted with a commission to design a building for a high-grade printing plant somewhere in Pennsylvania, devoted months upon months to the study, not of the building problem in itself, but of the science of modern four-color reproduction. We think of William Jones Smith of Chicago who, designing banks, has spent many years in the study of banking procedure and the use of buildings as efficient machines for banking purposes.

That is what makes architecture not only an artistic accomplishment, but also a contribution, when correctly and studiously done, to the economic and practical needs of industry. In other words, beneath the flowing necktie of artistry beats a plodding, industrious detail-solving heart.



LETTERS

Mr. E. B. Morris,
THE FEDERAL ARCHITECT,
1700 Ash Street, N. W.,
Washington, D. C.

Dear Mr. Morris:

We believe your readers will be interested in the booklet entitled "Window Sills and Copings of Alcoa Aluminum," which has just come off the press. A copy is being sent to you for your files.

If you care to make mention of this booklet in a forthcoming issue of your publication, you are at liberty to do so, as we have an ample supply for distribution.

Very truly yours,
ALUMINUM COMPANY OF AMERICA,
R. T. GRIEBLING.

Houston, Texas

THE FEDERAL ARCHITECT,
Washington, D. C.

There is enclosed herewith a money order, in amount \$1.50, for my subscription for THE FEDERAL ARCHITECT.

Sorry to have waited so long before sending this in but

trust you will overlook my negligence this time.

Very truly yours,

JAMES L. MURPHY.

Forest Hills, N. Y.

THE FEDERAL ARCHITECT,
Washington, D. C.

The best things in life, including THE FEDERAL ARCHITECT, are free, but here's my dollar in appreciation of the good job you are doing.

Very truly yours,

H. K. COTTRILL,
Construction Engineer.

Rapid City, South Dakota.

THE FEDERAL ARCHITECT,
Washington, D. C.

Received your post card of March 7th, which must be classed as a "mouse trap" because it is "snappy."

I am like that absent-minded man, when eating hot cakes with syrup, he had a bug on his neck and he wanted to scratch his neck, but instead poured the syrup down his back and scratched the hotcake.

THE FEDERAL ARCHITECT is a fine publication with a lot constructive information in every issue.

This Black Hill country has been so dry that bull frogs seven years old do not know how to swim. This year we have had some fine rains and a night school is now being con-

ducted in the pools of water but of course they have to swim backwards in order not to drown.

With all seriousness, we have had, for the first time in a number of years, a wonderful and steady rain, not too much but going into the ground and it is a Blessing to the farmers.

Lots of good luck and attached will be found \$1.00 for a subscription to your fine publication.

Cordially,
ALEXANDER T. SCHENCK,
Construction Engineer.

Sitka, Alaska

THE FEDERAL ARCHITECT,
Washington, D. C.

To withstand the post card plea of March 7th one must needs have a heart of stone.

Please find inclosed a postal money order in amount \$1.50 to help reject old man Recession from the ante-room.

Incidentally, Construction Engineers are pestered by the Portland Cement Associations, the Supervising Engineer and numerous laboratory genera because our concrete is too wet.

Have just completed a Post Office and Court House in Sitka, which was under contract to J. B. Warrack of Seattle, on a site with an historical background. It is located on the site of Alexander Baranof's castle and ship-yards during early Russian days and in the course of excavation cannon balls, grape shot, boat nails (some of them copper) hand wrought drift pins, etc., were brought to light. Some of them from a depth of twelve feet.

The predominance of cannon balls and grape shot would lead one to believe that Alexander was rather strict with the Natives.

Sincerely yours,
A. EARL PATTERSON,
Construction Engineer.

New Rochelle, N. Y.

THE FEDERAL ARCHITECT,
Washington, D. C.

Gentlemen:

Your card postmarked March 7th continues to bob up in my files, recalling the newspaper which offers its readers \$1 each for "Embarrassing Moments."

One man wrote in asking for \$2. It seems that he had been engaged with the charming wife of a near neighbor in a matter which, although by no means unique, had seemed rather important to both of them at the time. Quite without intention on their part, and in utter innocence and wholly

without suspicion on his part, the husband had put in an appearance at that moment when the happy couple, after the exchange of opinions and other trifles, had relaxed and were considering an adjournment of the meeting. The gentleman's claim on the editor for \$2 was put forth because the lady had stated that she was also embarrassed. The editor, who evidently must be a genial soul and not without a working knowledge of affairs generally, sent a check for \$3 because, as he properly pointed out, the husband probably was likewise embarrassed.

Having received THE FEDERAL ARCHITECT for seven years without a whimper or even a line in return, my conscience tells me that if I am not embarrassed, I should at least acknowledge that I have been grateful and appreciative.

It so happens that being on the list of registered architects in New York a second copy has regularly appeared at my home. In view of this largesse, it has always seemed that if the publication was affluent enough to do this, it was no doubt care-free in the matter of whether or not subscriptions were ever paid. So up until now, my conscience has not made much headway towards getting a check to you.

The enclosed postal money order (my bank froze so solidly in 1933 that it has never felt equal to opening again) is being sent apologetically but with the assurance of much quiet enjoyment of the many issues received.

Very truly yours,
A. H. HOWLAND,
Construction Engineer.

Newark, New York

THE FEDERAL ARCHITECT,
Washington, D. C.

Dear Fed Arch;

Am delighted to receive your card forwarded to this new address, but regret to hear that a "procession" is bothering your office finances, so will hasten to send the touch of one-fifty, for—if your correspondence ceases to come like the dew—or overdue—you squeak of, my intellectual disposition would be taxed to the "all-work-and-no-play" extremity!

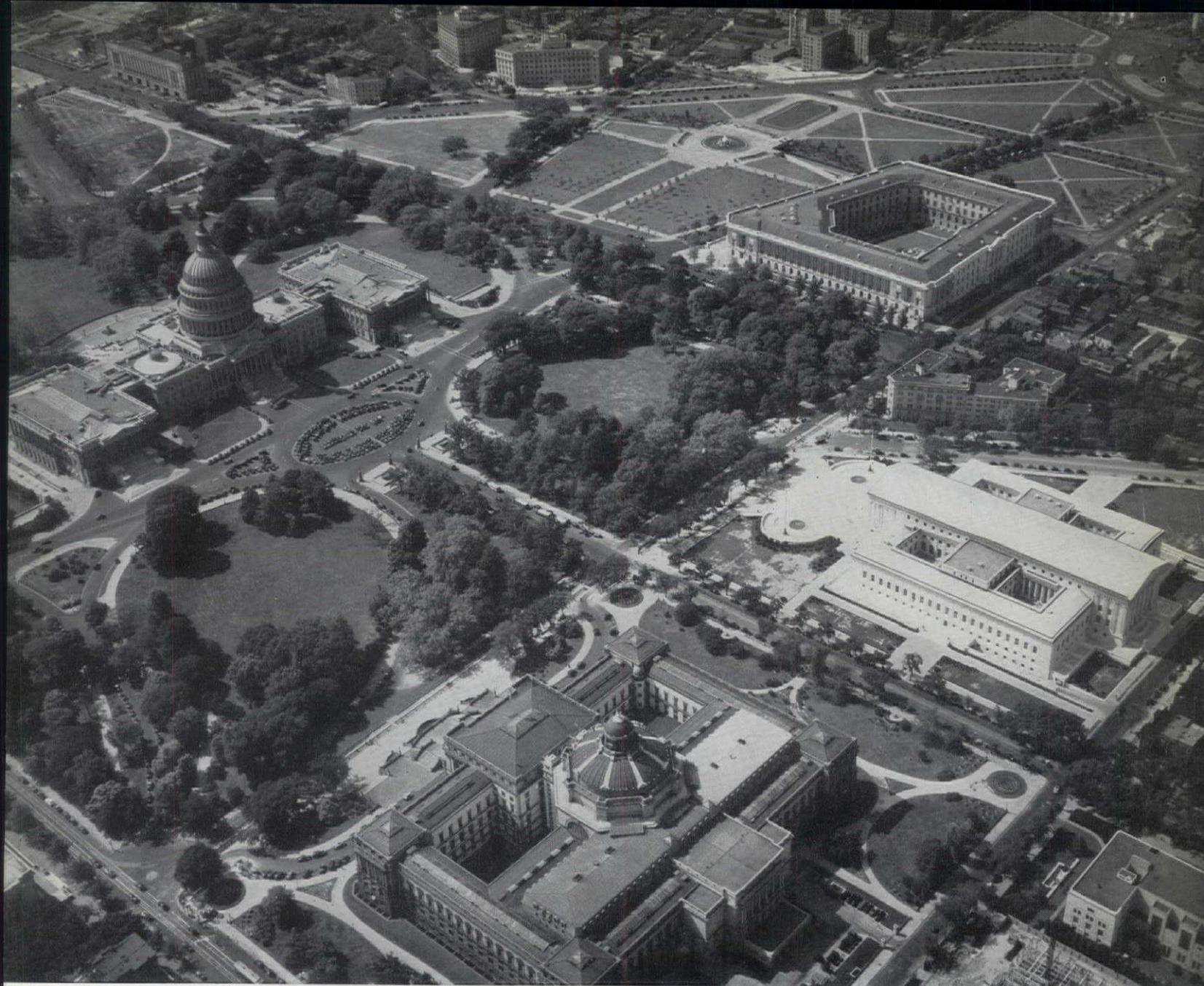
And many thanks for the new year wishes. But, by the way Arch, it still snows, rains and hails aplenty up here, and what with Lake Ontario, the Finger Lakes, and—the Barge Canal, within gun-shot, I'm afraid your tender wish that my concrete only, be all wet, doesn't sound so topographically good!

With designs for brightening up the pay,
's ever,

WILLIAM OEHRLE,
Construction Engineer.



ON the following pages are brief descriptions of the organization and scope of each of the Government agencies doing architect or having supervision or control over architectural work. Examples of the work of the agencies appear together with a listing of the projects in the current program of each.



THE NATIONAL COMMISSION OF FINE ARTS

Washington, D. C.

Established May 17, 1910

GILMORE D. CLARKE, *Chairman*

CHARLES MOORE

EUGENE F. SAVAGE

CHARLES L. BORIE, JR.

HENRY R. SHEPLEY

WILLIAM F. LAMB

PAUL MANSHIP

H. P. CAEMMERER, *Secretary*

THE duties of the National Fine Arts Commission embrace advising upon the location of statues, fountains, and monuments in public squares, streets, and parks in the District of Columbia; upon the selection of models for statues, fountains, and monuments erected under the authority of the United States, and the selection of artists for their execution; also for medals, insignia, and coins; upon the plans and designs for

public structures and parks in the District of Columbia, as well as upon all questions involving matters of art with which the Federal Government is concerned.

It is interesting to note the personnel of the original Fine Arts Commission of 1910, which consisted of Daniel H. Burnham, chairman, Daniel Chester French, Frederick Law Olmsted, Thomas Hastings, Francis D. Millet, Cass Gilbert and Charles Moore.



NATIONAL CAPITAL PARK and PLANNING COMMISSION

Established April 30, 1926.

PRESENT MEMBERS

FREDERIC A. DELANO, *Chairman*

Arno B. Cammerer, Executive Officer (Director,
National Park Service.)

Col. Daniel I. Sultan, Engineer Commissioner, D.
of C.

Wm. H. King, U. S. Senate, Chairman D. C. Com-
mittee

Vincent L. Palmisano, House of Representatives,
Chairman D. C. Committee

Ferdinand A. Silcox, Chief Forester, Forest Service

Maj. Gen. Julian L. Schley, Chief of Engineers, U. S.
Engineer Office

Henry V. Hubbard

William Adams Delano

J. C. Nichols

DUTIES

The commission is charged with the duty of preparing, developing, and maintaining a comprehensive, consistent, and coordinated plan for the National Capital and its environs in Maryland and Virginia, which plan shall include recommendations to the proper executive authorities as to traffic and transportation; plats and subdivisions; highways, parks, and parkways; school and library sites; playgrounds; drainage, sewerage, and water supply; housing, building, and zoning regulations; public and private buildings; bridges and water fronts; commerce and industry; and other proper elements of city and regional planning.

THE COORDINATING COMMITTEE

Established June 19, 1926

MEMBERS

E. A. Schmitt, Chairman. (Senior Engineers, U. S.
Engineer Office)

John Nolen, Jr., Vice-Chairman (Director of Plan-
ning, N. C. P. & P. C.)

Capt. H. C. Whitehurst, Director of Highways, D. C.

Capt. P. H. Tansey, Asst. Engineer Commissioner,
D. C.

Capt. Hugh P. Oram, Director of Inspection, D. C.

J. B. Gordon, Director of Sanitary Engineering, D. C.

E. A. Dent, Surveyor, D. C.

F. T. Gartside, Assistant Superintendent, National
Capital Parks

W. G. Noll, Superintendent of Architecture, P. W. A.,
Procurement Division, Treasury Dept. (Alter-
nate A. S. Thorne)

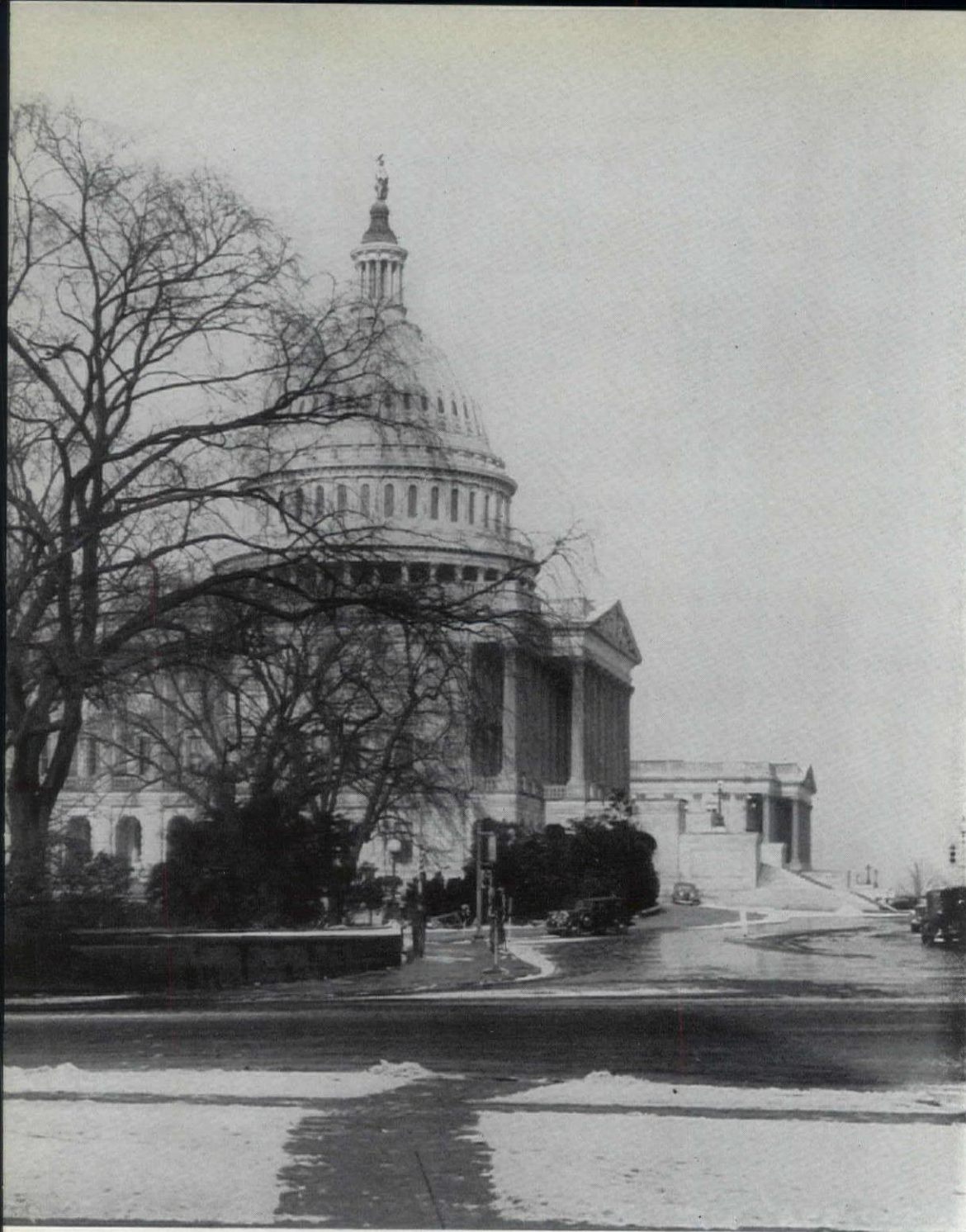
T. C. Jeffers, Landscape Architect, N. C. P. & P. C.

T. S. Settle, Secretary, N. C. P. & P. C.

Also: Irving C. Root, Chief Engineer, Maryland-
N. C. P. & P. C. (Attends only when matters of
concern to his Commission are up for consid-
eration.)

DUTIES

A staff committee set up by the Commission to review projects and plans in detail with a view to coordinating matters of mutual concern to the agencies represented and to make recommendations to the Planning Commission.

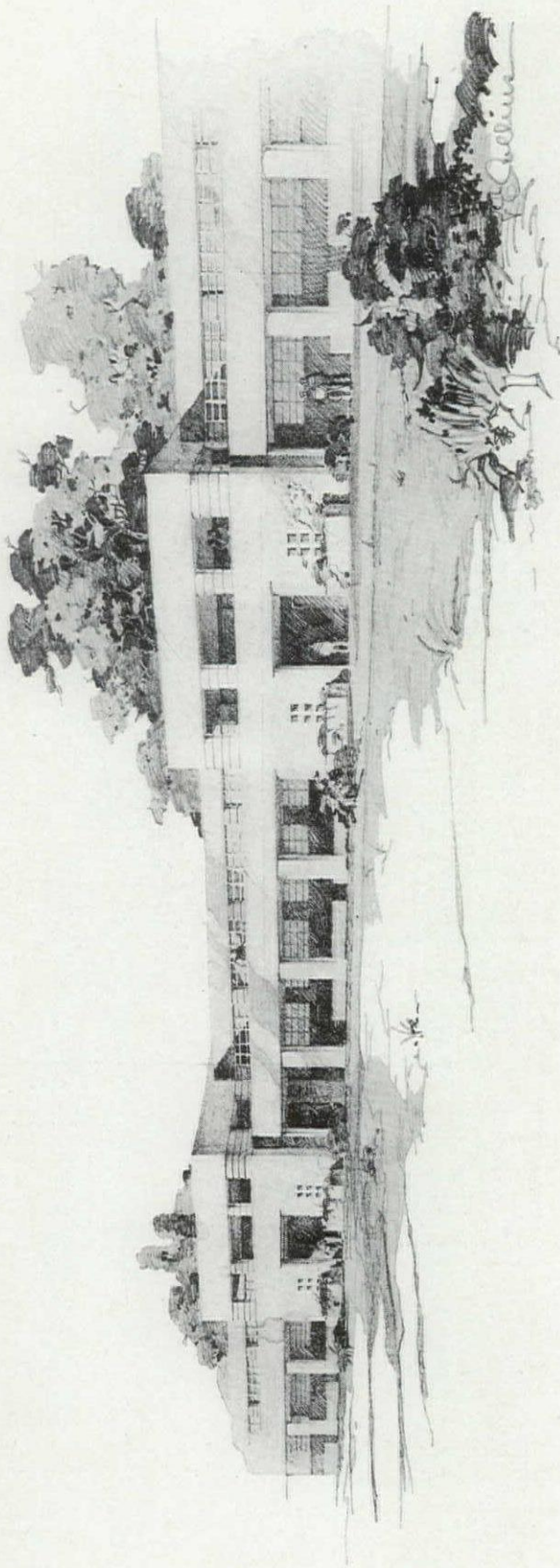


OFFICE OF THE ARCHITECT OF THE CAPITOL

Architect, DAVID LYNN

Assistant Architect, HORACE D. ROUZER

The function of the architect of the Capitol is to take care of the buildings of the Capitol group, including the Senate and House Office buildings, the Library buildings and the building for the Supreme Court, assuming responsibility for upkeep, mechanical equipment and physical appearance.



SKETCH FOR A BARRACKS

Bureau of Yards and Docks,
Navy Department, Architects.

Rendering by P. E. Collins



SKETCH FOR A HOSPITAL
Bureau of Yards and Docks, Architects

BUREAU OF YARDS AND DOCKS

NAVY DEPARTMENT

Rear Admiral Ben Moreell (CEC) USN, Chief of Bureau.
Commander Lewis B. Combs (CEC) USN, Assistant to Chief.
Commander C. A. Trexel (CEC) USN, in charge of Design Division.
F. W. Southworth, Project Manager, for Hospitals; Personnel structures and work of an architectural nature.
J. T. Maguire, in charge of Drafting Room.



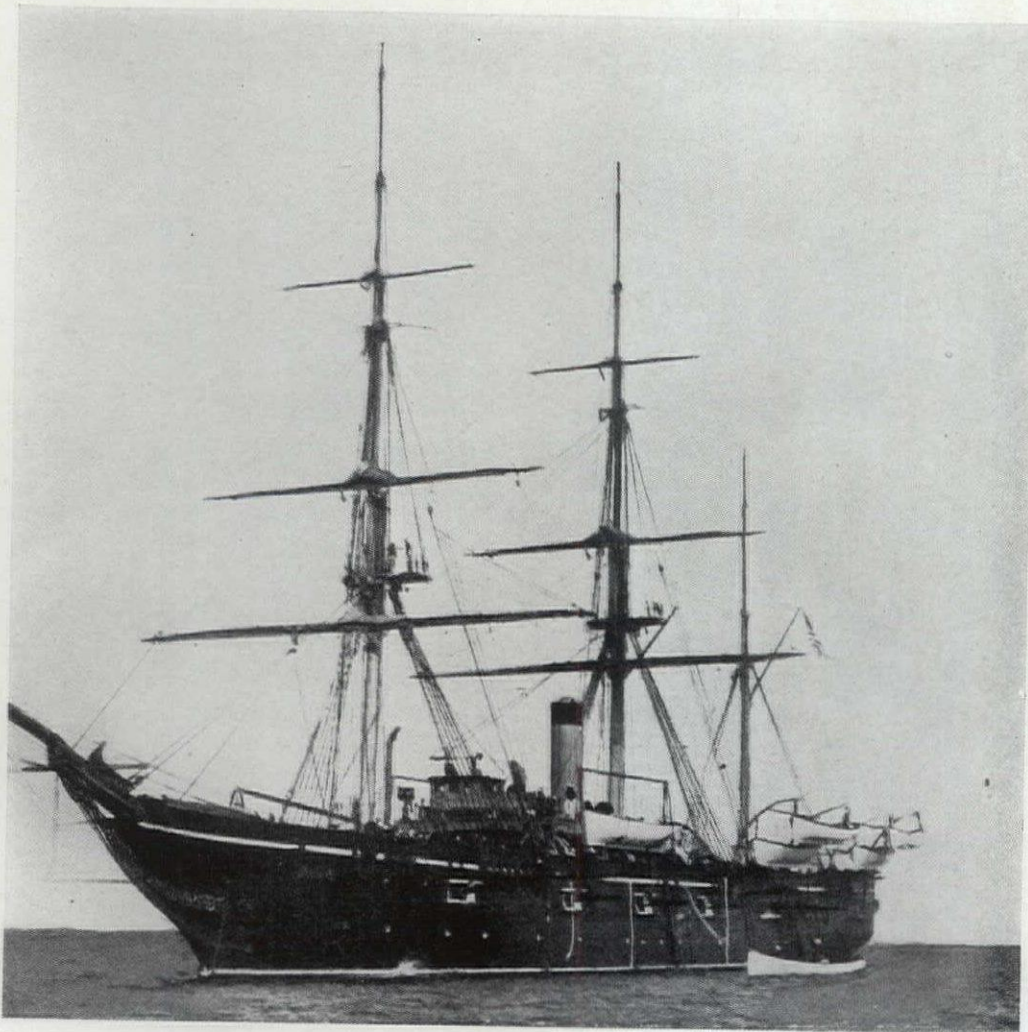
THIS bureau is in charge of shore construction for the Navy Department. Project Managers have charge of various phases of the work, architectural matters being the province, as noted above, of Mr. Southworth, who acts as consultant thereon. The drafting room, which prepares drawings for all work, whether architectural or engineering, is under the supervision of Mr. Maguire.



*SKETCH FOR A BARRACKS AND
POST EXCHANGE GROUP*

*Bureau of Yards and Docks,
Navy Department, Architects.*

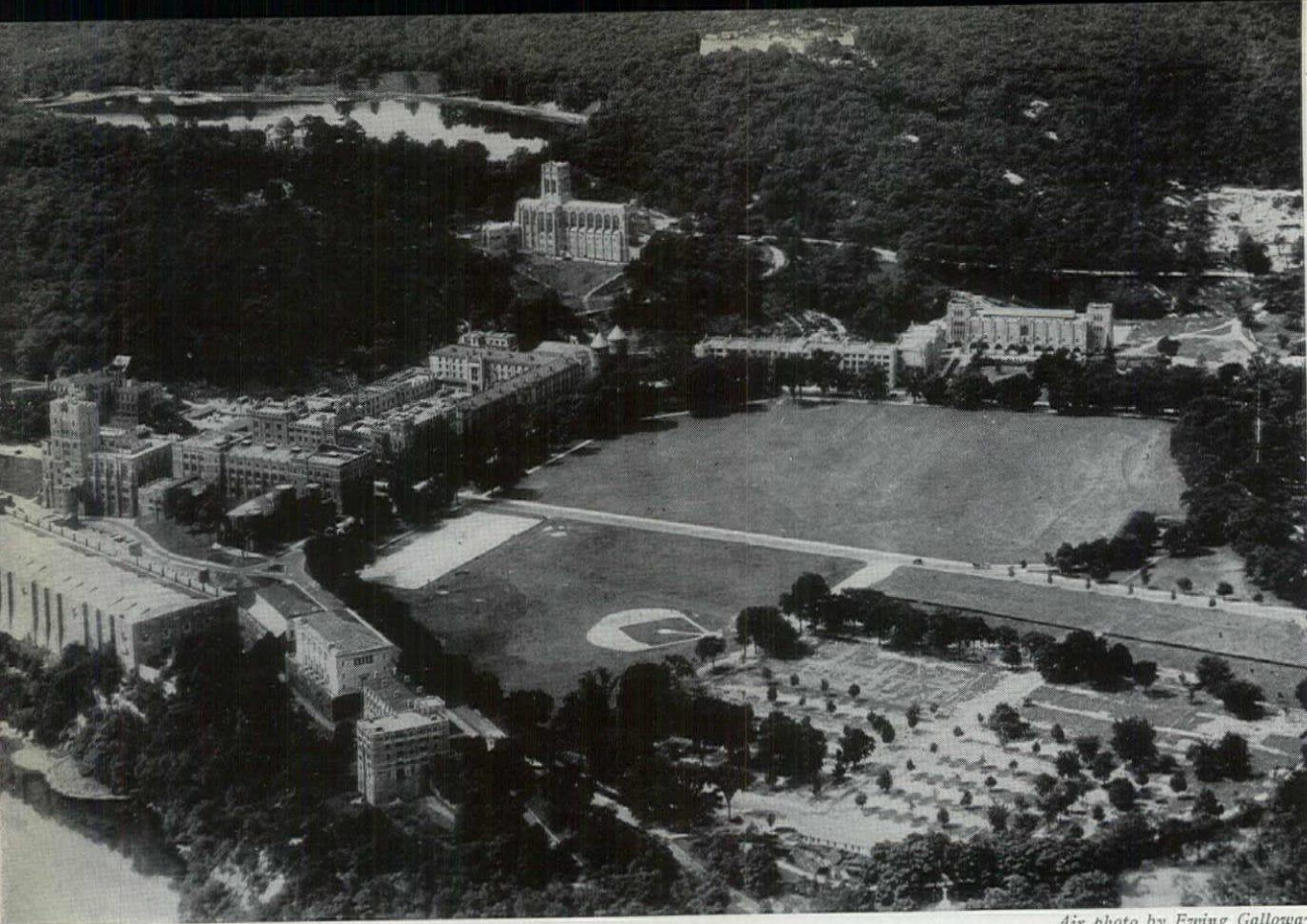
Rendering by P. E. Collins



U. S. S. HARTFORD

*Reproduced from a photograph in J. M. Colisanti's book
"Our Navy and Defenders."*

THE Public Works Administration allotted the Bureau of Yards and Docks \$100,000 to have the U. S. S. Hartford preserved and restored as a naval relic. The Hartford was the vessel in which Farragut in August of 1864 entered Mobile Bay, lashed to the mast, and uttered the phrase "Damn the torpedoes, go ahead," a phrase promiscuously attributed to Dewey, Nelson and other naval heroes. The Hartford is 225 feet long with a 44 foot beam. She had a maximum speed under steam in smooth water of 9.5 knots and an average sea performance under sail and steam of 7.3 knots. Her original two-blade bronze propeller was replaced by a four-blade propeller in 1884 and the original one recast into the statue of Farragut in Farragut Square, Washington, D. C.



AIR VIEW WEST POINT MILITARY ACADEMY

Air photo by Ewing Galloway
Courtesy Copper and Brass Research Ass'n.

OFFICE OF THE QUARTERMASTER GENERAL

CONSTRUCTION DIVISION

MAJOR GENERAL HENRY GIBBONS,
BRIGADIER GENERAL A. OWEN SEAMAN,

Quartermaster General
Chief Construction Div.

COL. H. E. PITTS
In charge of New Construction

CAPTAIN E. J. WALTERS
*New Construction Drawings and
Specification*

CAPTAIN GEORGE F. LAMB
*(In charge of estimates and preliminary
plans, before money is allocated)*

CAPTAIN ANDRE VIOLANTE
New Construction Field Work

L. M. LEISENRING
Supervising Architect

THE purpose of the Construction Division is to design and supervise all construction for the Army, other than fortifications and that in the zone of operations in time of war. Such construction includes all outside utilities and such buildings as hospitals, chapels, administration buildings, recreation buildings, etc., at forts, aviation fields and other army reservations. The Corps of Engineers is in charge of the country's large program of river and harbor work.



JUNIOR OFFICERS QUARTERS, WEST POINT

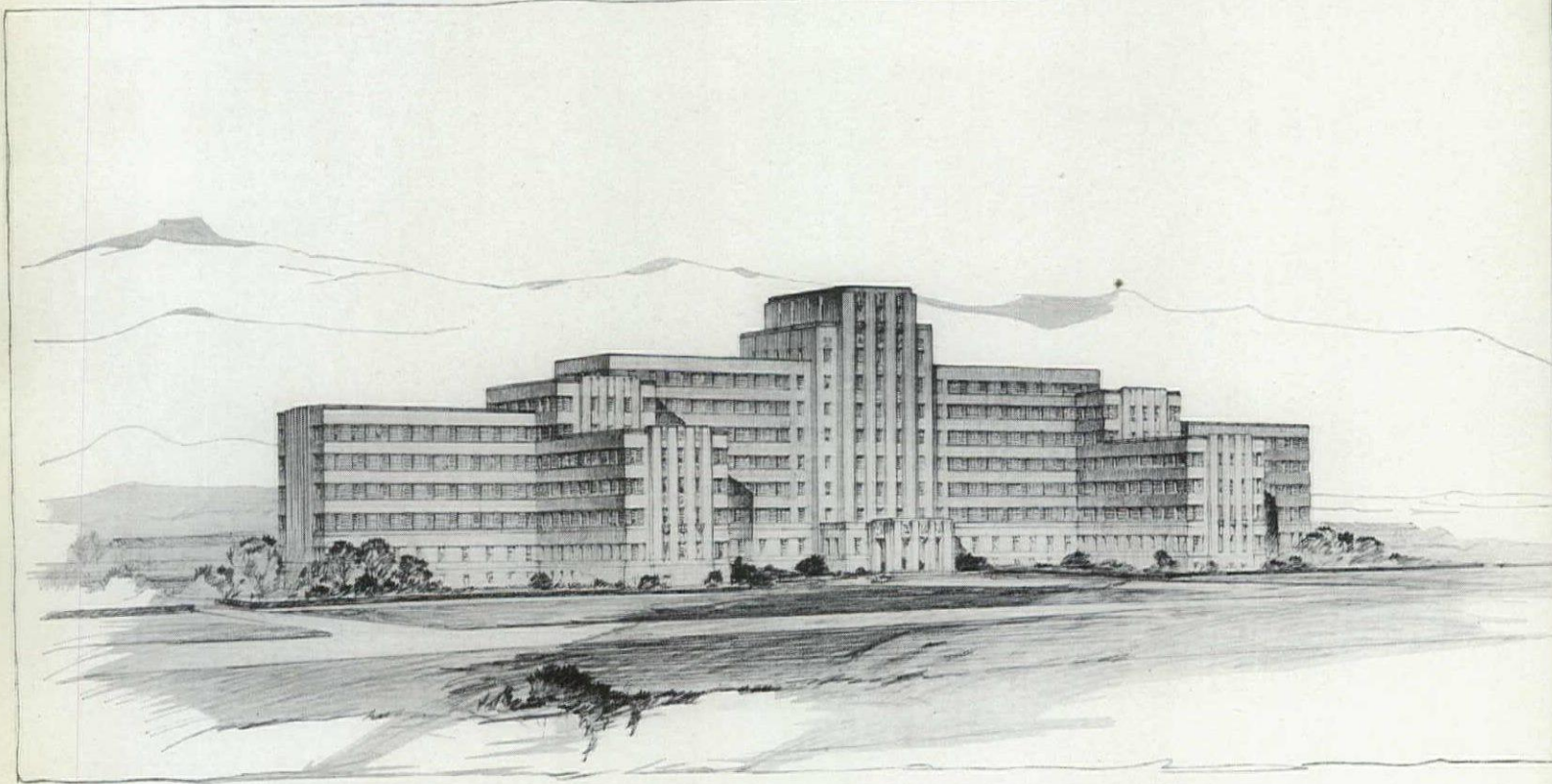
Construction Division Quartermaster General's Office Architects.

The cover photograph of this issue shows the enclosing walls for the coal silos at West Point and the Armory, the first designed by the QMG office, the second by Paul Cret.



QUARTERMASTER GARAGE, WEST POINT

Construction Division Quartermaster General's Office Architects.

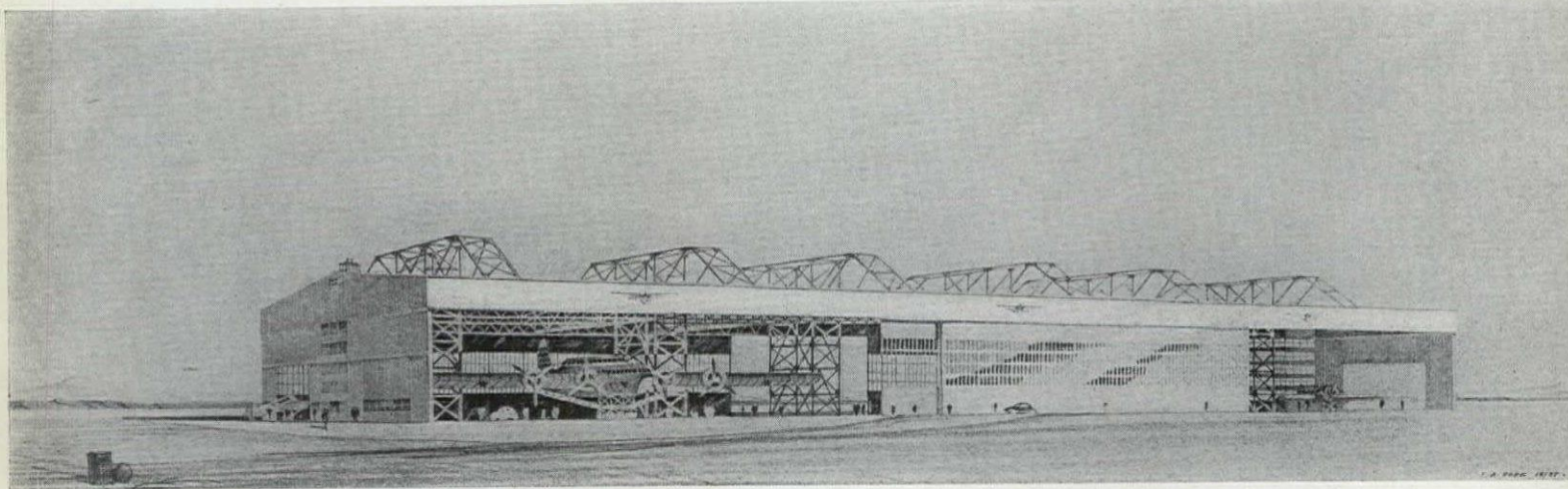


*Construction Division Quartermaster
General's Office, Architects.*

*Study for Main Building
Fitzsimons General Hospital
Denver, Colo.*

*Study for Air Corps Hangar
Cantilever type.*

*Construction Division, Quartermaster
General's Office, Architects.*





*Alley Dwelling Authority Project
K Street near 7th S. W.,
Washington, D. C.*

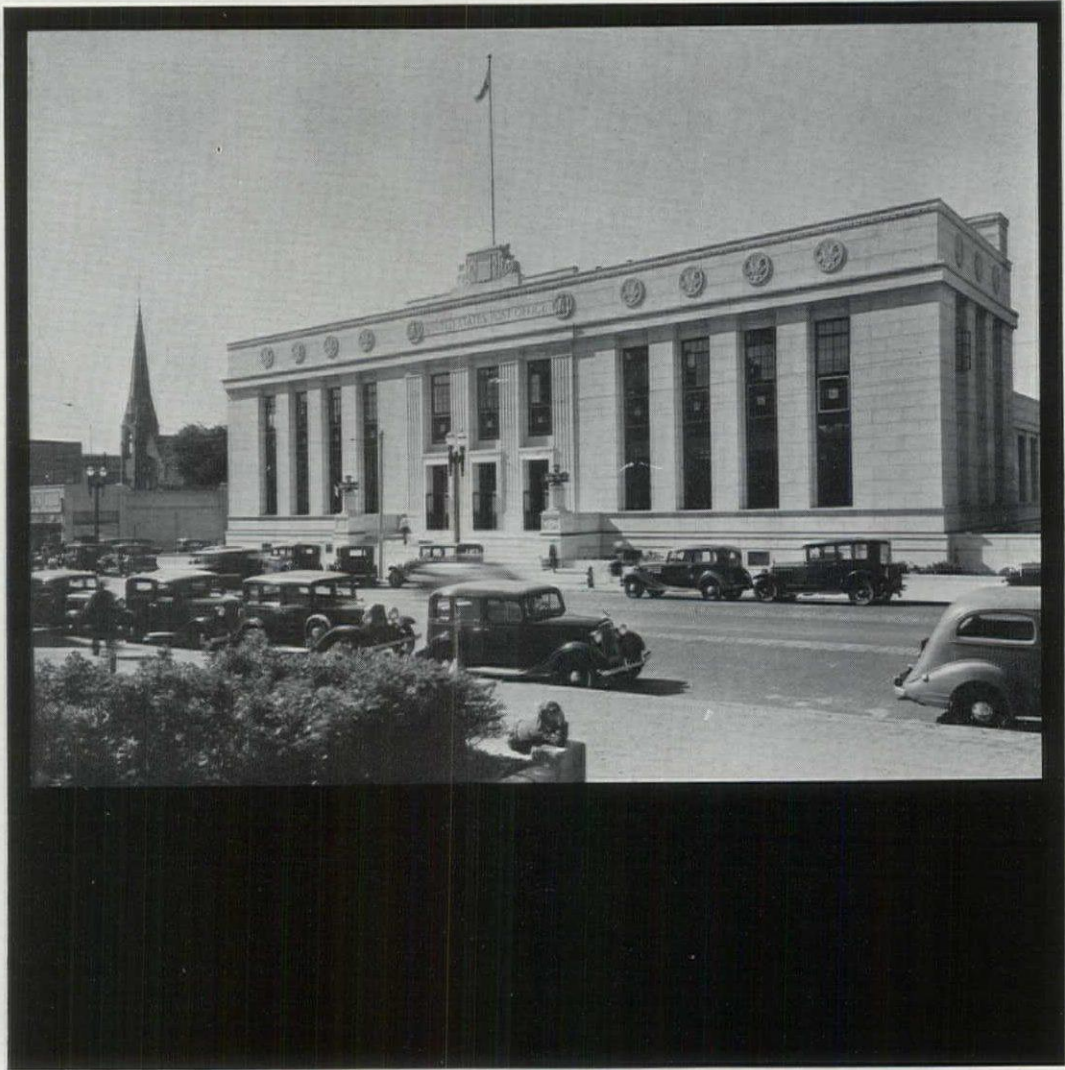
THE ALLEY DWELLING AUTHORITY

THE Alley Dwelling Authority is entrusted with the duty of ridding Washington of its inhabited alleys. This involves reclamation, and provision of low-rent housing. The Authority was established under the terms of the District of Columbia Alley Dwelling Act, approved June 12, 1934.

The Authority is empowered to acquire real property in squares containing inhabited alleys; to replat any land so acquired, and to install sewers, water mains and street lights thereon; to demolish, move or alter any structures thereon and to erect such structures as are deemed advisable; to rent, manage or convey such land and structures as the Authority may determine.

The offices of the Authority are at 1300 E Street, Washington, D. C., and its officers are:

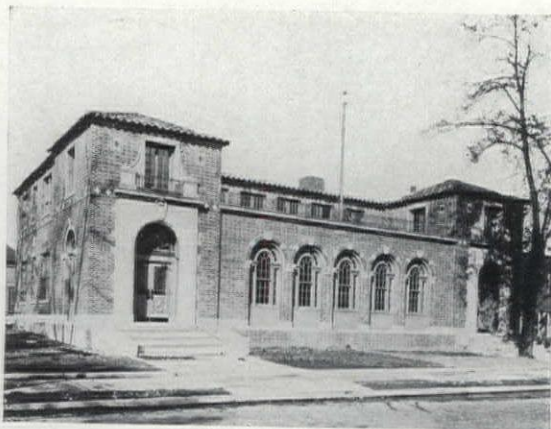
Melvin C. Hazen, Chairman
Arno B. Cammerer
David Lynn
John Ihlder, Executive Officer
James Ring, Administrative Assistant.



THE PROCUREMENT DIVISION

PUBLIC BUILDING BRANCH

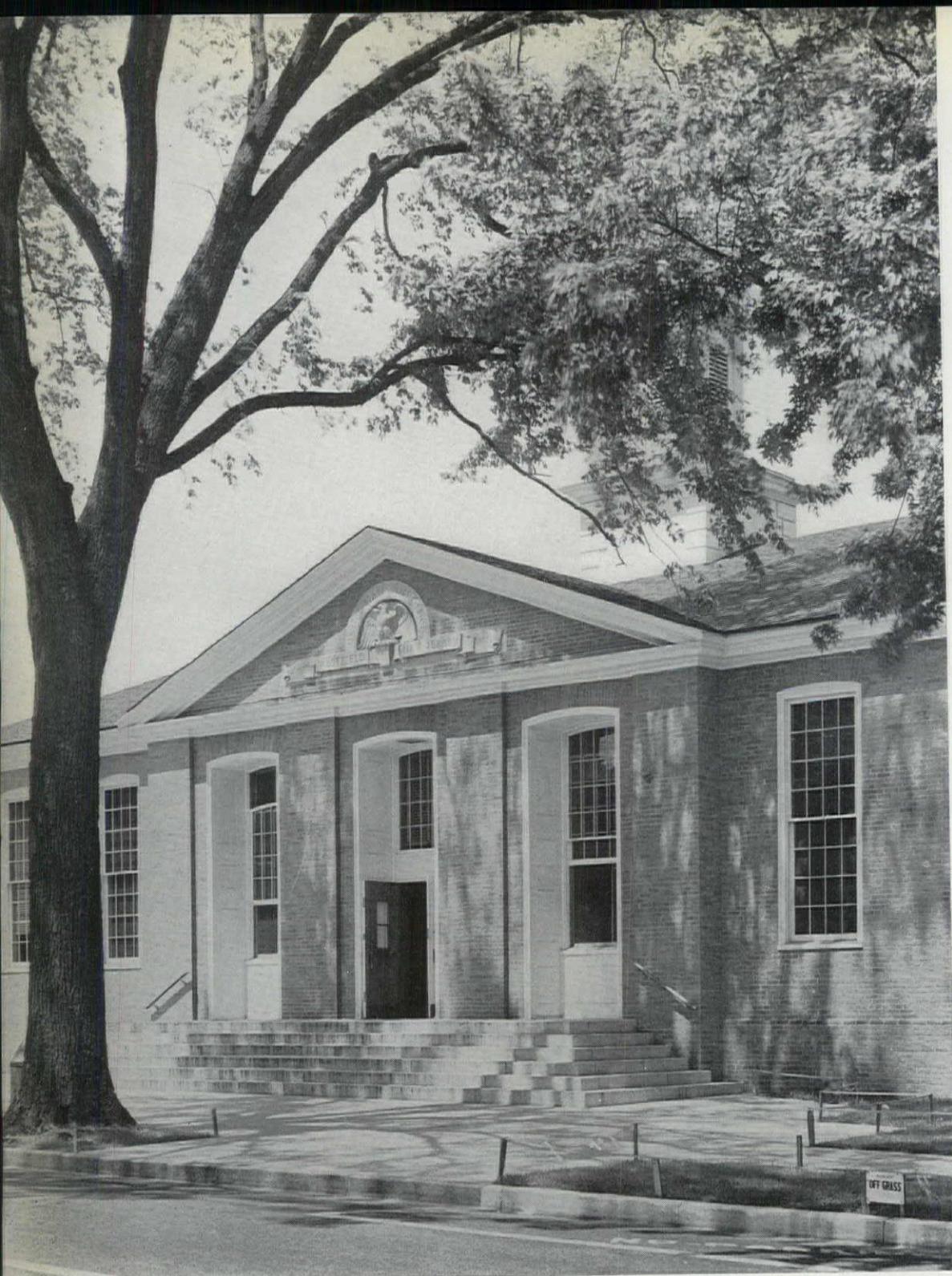
■ **T**HE work of the Procurement Division covers design and construction of post offices, court houses, custom houses, Federal office buildings, immigration stations, Public Health Service hospitals, prisons, Coast Guard air stations, border inspection stations, United States embassies and legations.



LIST OF NAMES AND TITLES
PROCUREMENT DIVISION

C. J. Peoples, Director of Procurement
W. E. Reynolds, Asst. Director of Procurement in charge of
the Public Buildings Branch
LeRoy Barton, Special Asst. to the Secretary of the Treasury
L. A. Simon, Supervising Architect
N. A. Melick, Supervising Engineer
E. R. Witman, Executive Officer
W. G. Noll, Supt. of Architecture
E. B. Morris, Asst. Supt. of Architecture
N. S. Thompson, Supt. of Mechanical Engineering
Robert Mayo, Jr., Asst. Supt. of Mechanical Engineering
T. C. Brooks, Supt. of Structural Engineering
E. E. Witcraft, Asst. Supt. of Structural Engineering
T. C. Coleman, Supt. of Architectural Engineering
C. W. Chamberlain, Asst. Supt. of Architectural Engineering
C. H. Branscombe, Chief Field Engineer
C. T. Holden, Asst. Chief Field Engineer
G. R. Roberts, Chief Office Engineer
E. H. Lund, Asst. Chief Office Engineer
N. M. Dunning, Technical Asst. to Asst. Director
F. T. Trott, Asst. Executive Officer
J. H. Schaefer, Office Manager
A. S. Thorn, Administrative Asst. to Supervising Architect
John Weber, Administrative Asst. to Supervising Engineer





*UNITED STATES POST OFFICE
WESTFIELD, N. Y.*

*Supervising Architects Office
Public Buildings Branch
Procurement Division, Architects*



*FERRY HOUSE
UNITED STATES IMMIGRATION STATION
ELLIS ISLAND, N. Y.*

*Supervising Architects Office
Public Buildings Branch
Procurement Division, Architects
Chester A. Aldrich, Associate Architect.*



THE ADVISORY COMMITTEE ON DESIGN

PROCUREMENT DIVISION

■ **T**HE Secretary of the Treasury appointed the following committee to advise the Procurement Division in the Matter of Architectural design:

CHARLES Z. KLAUDER, *Chairman*

Aymer Embury II

Henry Shepley

Philip B. Maher

Louis A. Simon



THE CENTRAL HOUSING COMMITTEE

■ **T**HE Central Housing Committee is an informal coordinating body composed of principal executives from Federal agencies concerned with housing construction and finance. Their principal advisors and technical assistants are associated on a number of Sub-Committees and auxiliary groups of specialized interests and elastic membership which exchange data and experience and initiate various joint studies.

Represented on the Central Committee are the Department of Commerce; Farm Security Administration; Federal Home Loan Bank Board; Federal Housing Administration; National Emergency Council; Procurement Division; Reconstruction Finance Corp.; Mortgage Company and the United States Housing Authority. Participating in the work of the different Sub-Committees are technical men from several other agencies.

Principal groupings are Appraisal and Mortgage Analysis; Design and Construction; Land Use and Site Planning; Law and Legislation; Operation and Management; Research and Statistics—with secondary groups working on different phases of these subjects such as Planning and Design, Structure, Landscape, Mechanical Equipment, Construction Costs, Technical Research and the like.

The Committee had its origin at a conference of agency principals at the White House on August 29, 1935. Mr. Frederic A. Delano served as first chairman. Upon his resignation the continuance of the Committee with expansion of activities was authorized by the President on July 5, 1938 in a communication designating as chairman Rear Admiral C. J. Peoples, Director of Procurement.

Horace W. Peaslee is Executive Secretary and the offices of the Committee are at 907 16th St.



FEDERAL SPECIFICATION EXECUTIVE COMMITTEE

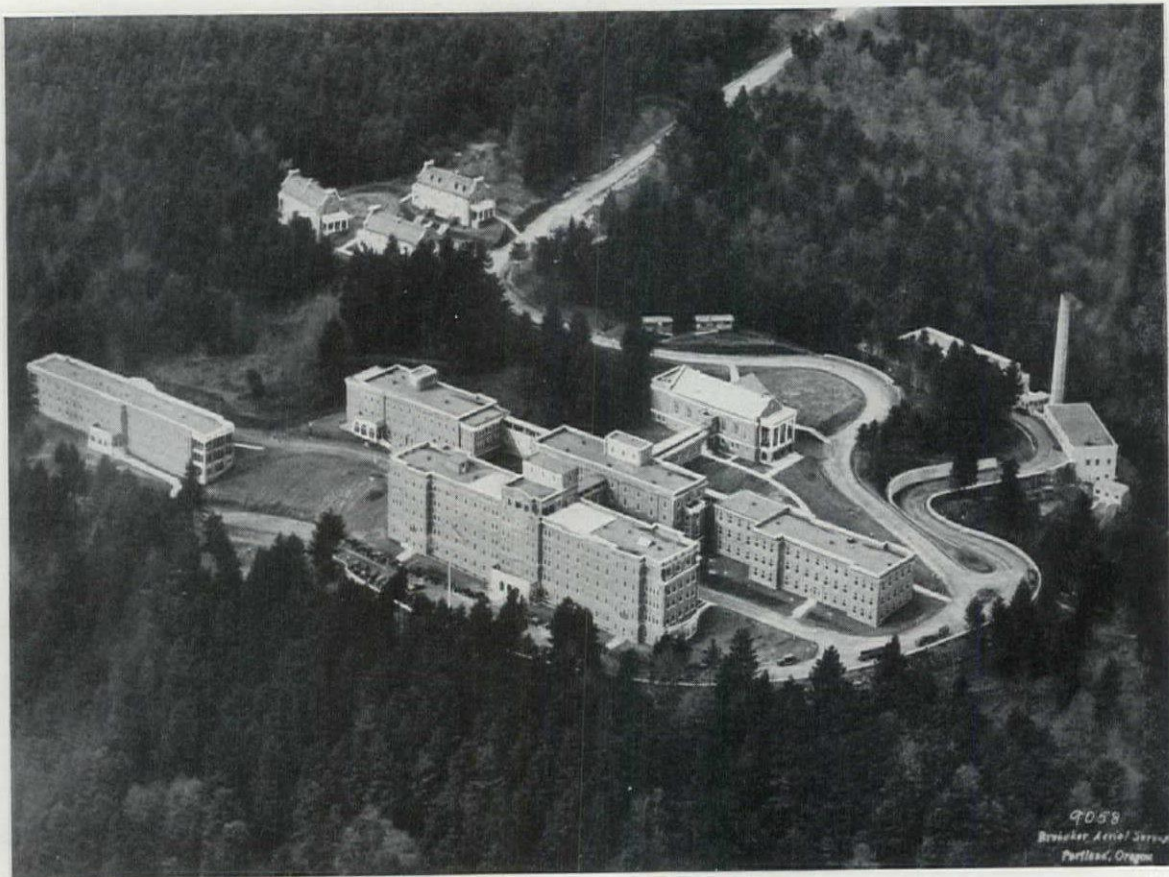
Procurement Division

Established by executive orders of July 27, 1933 and Jan. 24, 1935.

Dr. L. J. Briggs, Bureau of Standards, Chairman.
N. F. Harriman, Procurement Division, Vice Chairman.
J. L. Jones, Procurement Division, Technical Secretary.
Alexander McC. Ashley, Dept. of Agriculture.
Charles S. Beard, Post Office Dept.
H. A. Harrison, Veterans' Administration.
Lt. Col. Wm. C. Young, War Department.
Capt. Albert Norris, Navy Department.

Specifications prepared by this committee and approved by the Director of Procurement are binding for government contracts of more than \$1,000, unless necessity for deviation therefrom is established.

It is with sorrow that we announce the death, on October 30th, of Charles Z. Klauder, Chairman of the Procurement Division's Advisory Board on Architectural Design. Mr. Klauder was a sensitive designer, a master draftsman, a diplomatic administrator and a serene and lovable character—all that a great architect should be. He was — more than a great architect — a great and outstanding citizen.



*Construction Service
Veterans Administration
Architects*

*Veterans Administration Hospital,
Portland, Oregon.*

VETERANS ADMINISTRATION

Construction Service

BRIG. GENL. FRANK T. HINES, *Administrator*
 Colonel George E. Ijams, *Assistant Administrator for Construction, etc.*
 Louis H. Tripp, *Director Construction Service*
 William H. Talbott, *Chief, Technical Division*
 Louis H. Russell, *Chief, Architectural Sub. Div.*
 Lloyd H. Dittrich, *Chief, Alteration Section.*
 Chas. H. Stratton, *Chief, Landscape Section.*
 Walter R. Metz, *Chief, Engineering Sub. Division.*
 John M. Kerr, *Chief, Structural Sub. Division*
 George H. Hamilton, *Chief, Specification Sub. Division*
 Joseph A. Fahy, *Chief, Project Management Division.*
 Herbert W. Gardner, *Chief, Maintenance and Operation Division.*



ON June 21 the Public Works Administration made an allotment of \$13,268,200 to the Veterans Administration for twenty-two projects including major additions and enlargements at twenty Facilities and construction of two new hospitals on sites to be selected somewhere in Texas and Southern Illinois. ("Facility" in Veterans Administration English means hospital of any type or soldiers home.)

On July 16 complete plans had been prepared by the Construction Service, Veterans Administration, and issued for bids on nineteen of these projects, and on August 13 contracts had been let for the following work:

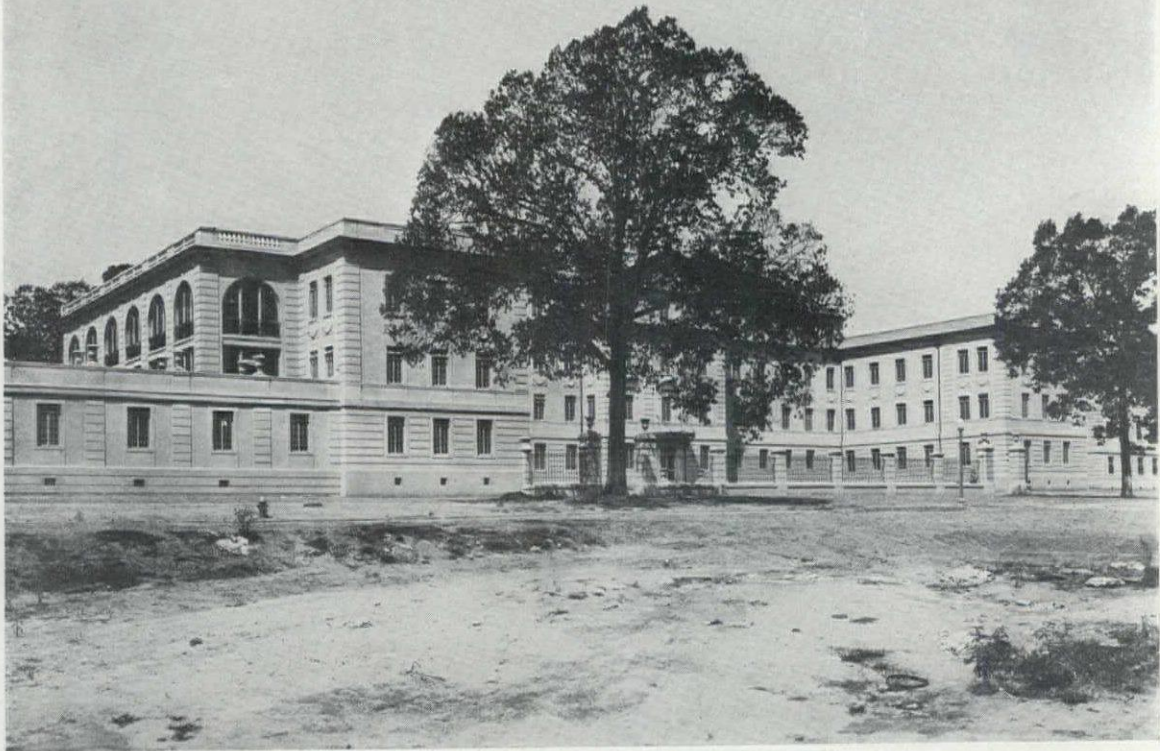
Waco, Texas	1 C. T. Building	185 beds
Bedford, Massachusetts	2 C. T. Buildings	368 beds
Lyons, New Jersey	1 C. T. Building	358 beds
Knoxville, Iowa	2 C. T. Buildings	368 beds
Indianapolis, Indiana	1 Gen. Med. Building	170 beds
Huntington, West Virginia	1 Gen. Med. Building	106 beds
Chillicothe, Ohio	1 C. T. Building	358 beds
Murfreesboro, Tennessee	2 C. T. Buildings	398 beds
Wichita, Kansas	1 Gen. Med. Building	76 beds
Camp Custer, Michigan	1 C. T., 1 Acute Building	524 beds
North Chicago, Illinois	2 C. T. Buildings	370 beds
Lincoln, Nebraska	Addition	48 beds
Bath, N. Y.	1 Barrack Building	395 beds
Pittsburgh, Pennsylvania	Addition	262 beds
Los Angeles, California	2 C. T. Buildings	392 beds
Palo Alto, California	1 Inf. Building	137 beds
Fargo, North Dakota	Addition	76 beds
White River Junction, Vt.	1 Gen. Med. Building	78 beds
Tuscaloosa, Alabama	1 C. T. Building	189 beds

The largest individual project, a \$2,000,000 addition at the Bronx, New York, Facility will be issued about September 26.

Since the approval on June 21 the Texas program has been amended to include two hospitals, one at Amarillo and one in the Dallas-Fort Worth area. The Amarillo site has been selected and plans will be placed on the market on September 19.

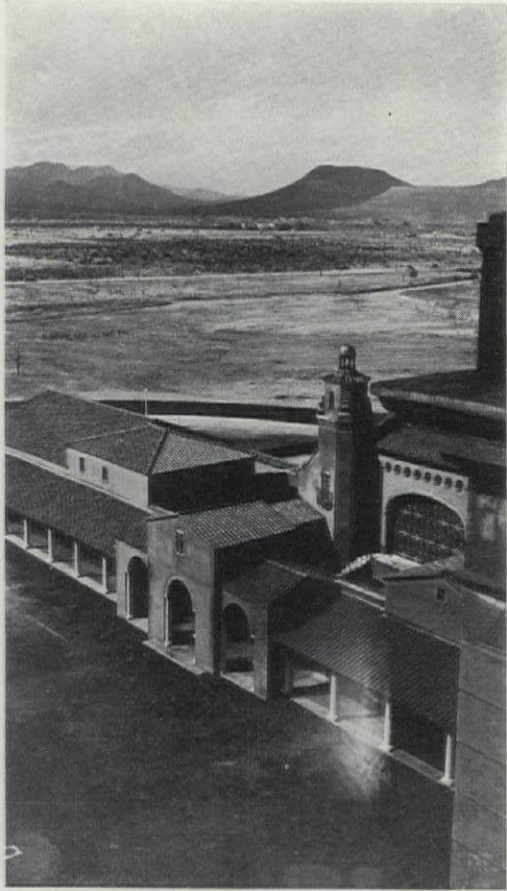
The exact locations for the second Texas and the Southern Illinois hospitals have not yet been decided upon, but it is hoped to have them on the market by the latter part of October.

In getting out the plans for the nineteen projects already under contract, the drafting force did not work overtime, but a bank of three big continuous blue-printing machines was run twenty-four hours a day for a month to turn out the 90,000 blue-prints sent out to bidders, and about a ton of mimeograph paper was used for printing the specifications that accompanied the plans.

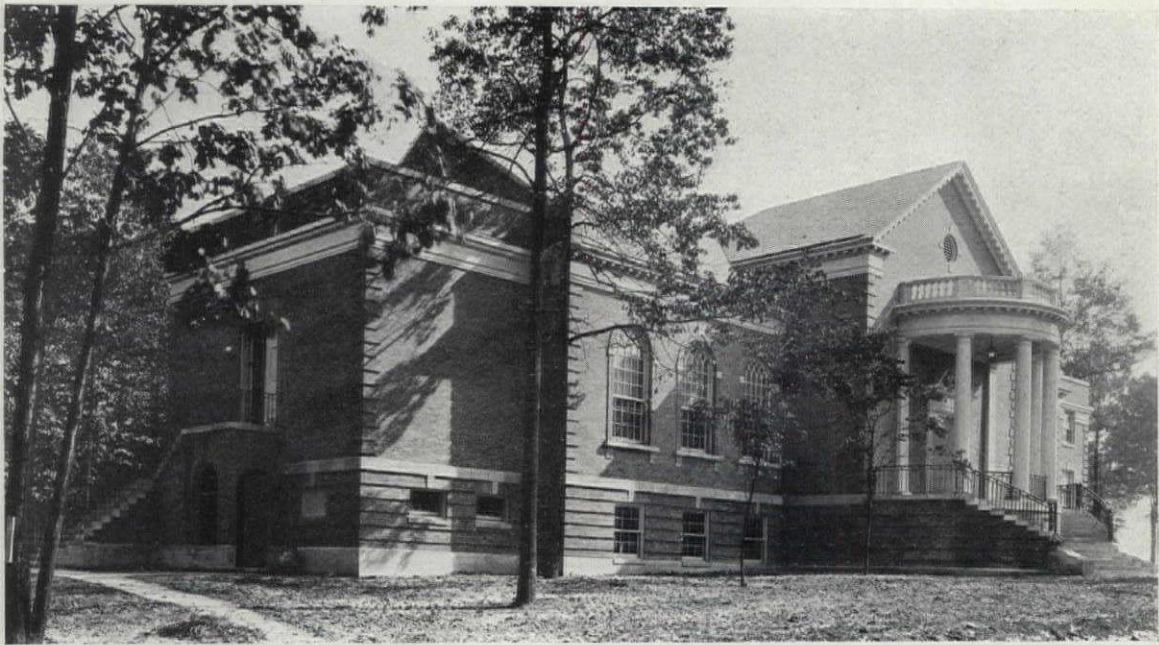


*U. S. VETERANS BUREAU HOSPITAL
ALEXANDRIA, LOUISIANA.*

*Construction Service
Veterans Administration
Architects*



AT left is the U. S. Veterans' Hospital at Tucson, Arizona, with its gold dome that can be seen for miles. Below is the U. S. Veterans' Hospital at Coatesville, Pennsylvania. The architects were the construction service of the Veterans' Administration.

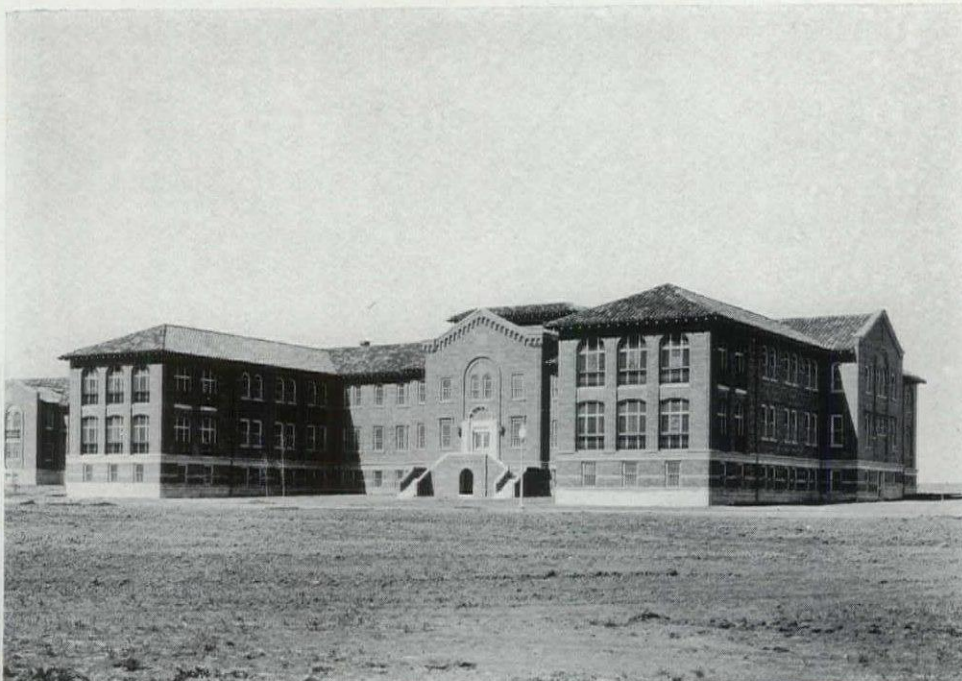




Both hospitals on this page will have additional facilities provided under the current construction program.

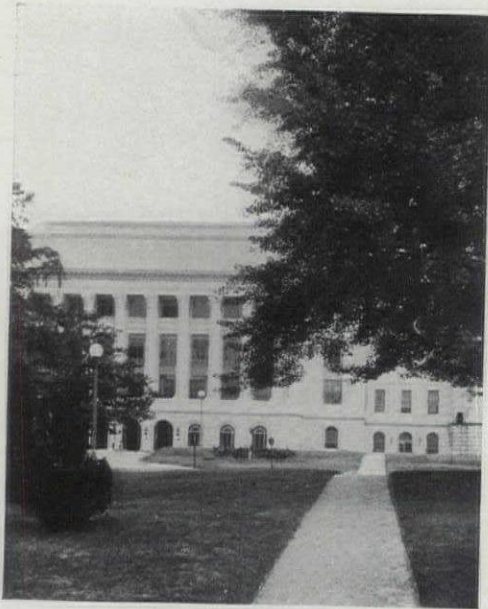
*U. S. VETERANS HOSPITAL
INDIANAPOLIS, INDIANA.*

*Construction Service
Veterans Administration
Architects*



*U. S. VETERANS HOSPITAL
WACO, TEXAS.*

*Construction Service
Veterans Administration
Architects*



ARCHITECTURAL UNITS IN THE DEPARTMENT OF AGRICULTURE

BUREAU OF AGRICULTURAL ENGINEERING

S. H. McCrory, *Chief*
George R. Boyd, *Assistant Chief*

DIVISION OF PLANS AND SERVICE

J. E. Miller (Recently resigned)

Organized 1931.

This Division prepares plans and specifications for the majority of projects authorized by different bureaus of the Department of Agriculture. It also gives technical advice upon equipment and various building materials, and checks specifications and plans pre-

pared by the staff of other bureaus of the Department. The Division also, in most instances, supervises the actual construction of the projects.

Projects for which plans and specifications are being prepared at present by the Division of Plans and Service:

AT THE NATIONAL AGRICULTURAL RESEARCH CENTER Beltsville, Md.

For the Research Center:
Administration Building and Laboratory.

For Food & Drug Administration:
A Laboratory.

For Bureau of Chemistry & Soils:
A Laboratory.

For Bureau of Plant Industry:
Cold Storage Research Laboratory, several new Green-

houses, Heating Plant, several farm buildings, and water reservoir.

For Bureau of Animal Industry:
Large Animal Building, consisting of a head house and three wings. Also several farm buildings and barns.

For Forest Service:
A Laboratory, two Residences, a Lodge, a Garage and Workshop, and an Observation Tower.

IN OTHER SECTIONS OF THE COUNTRY

For Bureau of Entomology & Plant Quarantine:
A Plant Quarantine Building at Hoboken, N. J., a Laboratory, and a Garage & Service Building at Oxford, N. C.

For Bureau of Animal Industry:
Three buildings for the Regional Poultry Laboratory at East Lansing, Mich.

For Bureau of Agricultural Engineering:
A Laboratory for the Cotton Ginning Laboratories, Stoneville, Mississippi.

FOREST SERVICE

T. W. Norcross, *Chief of Division of Engineering*
William E. Groben, *Architect*

The architectural service consists of consultation and advice and, at times, preparation of working drawings for work under the control of the Forest Service and other bureaus of the Department of Agriculture.



FAULKLAND APARTMENT

*Louis Justément, Architect.
Made Possible by Federal Housing Administration
Insurance of loan.*

THE FEDERAL HOUSING ADMINISTRATION

THE relation of the Federal Housing Administration to architecture is through its function to stimulate house and other dwelling construction by insuring loans. It thus makes building money for such projects more readily obtainable and makes possible a great increase in the volume of residential construction.

The Administration does not invest funds and, except in the manner of suggestion through bulletins of an educational nature, does not design structures. The financing is arranged by private interests through pri-

vate banks or loan organizations. The owners make their own arrangements for architectural services.

The Administration's concern with architectural drawings is, in general, that they shall contain provision for obtaining sound and adequate structures. It is further concerned, after the award of contracts, that the drawings and specifications shall be followed. The Administration maintains checking and inspection personnel to guarantee this, in order that the security of the loans it insures may not be impaired.

The offices of the Administration are at 1001 Ver-



COLONIAL VILLAGE

Raymond Snow, Architect.

Made Possible by Federal Housing Administration Insurance of loan.

mont Avenue, Washington, D. C. Officers most directly concerned with its construction responsibilities are:

- Stewart McDonald, FHA Administrator
- Miles L. Colean, Deputy Administrator
- Clyde L. Powell, Deputy Administrator
- Jay Keegan, Deputy Administrator
- Howard P. Vermilya, Director, Technical Division.
- James D. Dusenberry, Director of Construction.

Made possible by FHA insurance of loans, as of 8/31 there are in operation and under construction:

76 projects—capitalized at approximately \$61,-

000,000; carrying mortgages of approximately, \$47,-000,000.

Of these projects 21 are in operation and 55 under construction. They provide in all 12,471 dwelling units.

As of August 31, 1938, the future commitments are:

92 projects—capitalized at approximately \$49,-000,000; carrying mortgages of approximately \$38,000,000.

These will provide 8252 dwelling units.



*Shadow Mt. Fire Lookout
Rocky Mountain National Park*

BRANCH OF PLANS AND DESIGN NATIONAL PARK SERVICE INTERIOR DEPARTMENT

Chief, THOMAS C. VINT, Chief of Planning (until very recently,
known as Chief Architect.)

REPORTS TO DIRECTOR OF NATIONAL PARK SERVICE:

The National Park Service was founded in 1916. Two years later the Landscape Architectural Division was formed (showing impossibility of any real success without the assistance of an architect). The original Landscape Architectural Division consisted of one man with desk space in the private office of G. S. Underwood, Architect, at Los Angeles, Calif. In 1920 the second member of the personnel was added.

At this time all National Parks were located in the west, but by 1930 several parks had been acquired in the eastern part of the U. S., and it was decided to form an eastern office at Yorktown, Va., to handle all work east of the Mississippi, while the western office, now located at San Francisco, would continue to do all work to the west. By 1933 these offices employed 20 men, approximately half the number architects and half landscape architects. Also in this year the National Park Service had transferred to their jurisdiction from the War Dept. and Forest Service, a large number of National Cemeteries, National Military Parks and National Monuments. The year 1933 also saw the founding of the present "Branch of Plans and Design", which later moved its eastern office, with the Chief Architect, to Washington, where its headquarters were established.

Due to the steadily increasing duties and scope of work, regional offices were considered the proper answer in lieu of an eastern and a western office, so in 1936 four regions were set up with headquarters at Richmond, Va., Omaha, Nebr., Santa Fé, N. Mexico, and San Francisco, Cal., the Washington office now to serve only as headquarters.



HEADQUARTERS GROUP
WHITE SANDS NATIONAL MONUMENT
NEW MEXICO

Branch of Plans and Design, National Park Service, Architects.

The bulk of the work consists of hundreds and hundreds of small projects. However, these projects have run all the way from a fire-lookout tower in the mountains to the Federal Warehouse, now housing the Procurement Division in Washington.

The Historic Sites Act of 1935 enabled the National Park Service to acquire many old buildings, etc., which are being repaired and preserved by the Branch of Plans and Design. At the present time the old Customs House and Wharf at Salem, Mass., is being restored to match the days when clipper ships tied up for inspection and Hawthorne was bookkeeper, writing "The House of Seven Gables" during his spare moments. The Statue of Liberty, which in 1933 had to be closed to the public, has been made safe and eventually will have a beautiful setting with low unobtrusive buildings, and landscaping covering the whole island.

A survey of Historic American Buildings is now being conducted throughout the country, covering many privately owned buildings which could easily be destroyed or lost to posterity, but of which there will now be carefully measured drawings on file in the Library of Congress and available for purchase very cheaply. These drawings now include approximately 5,000 structures, from New England covered bridges to pre-historic Indian pueblos in the southwest.

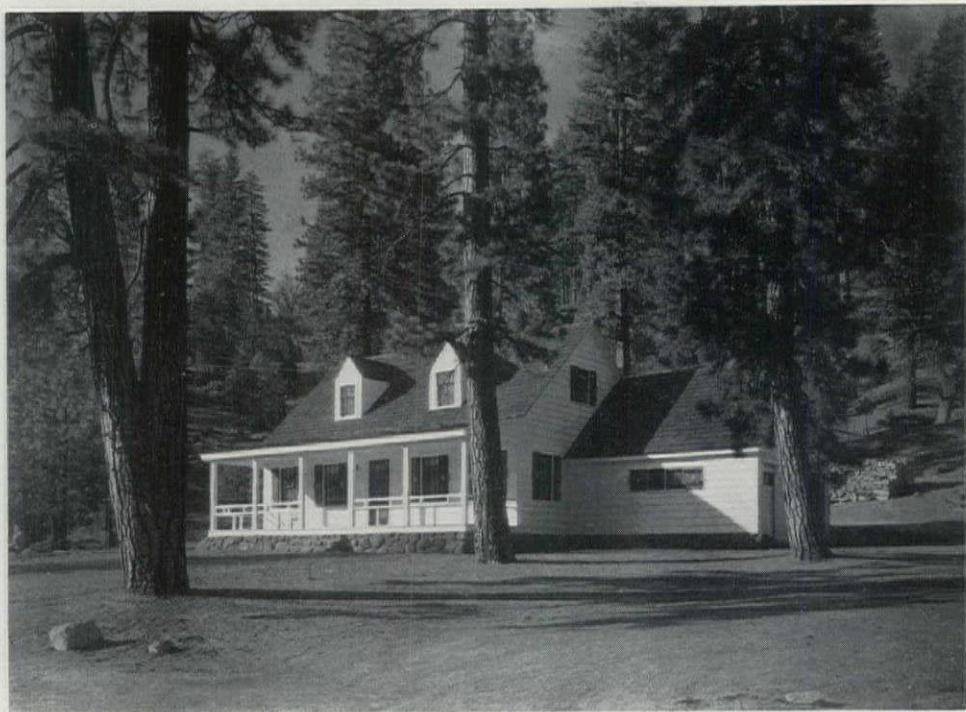
Among other present projects, of which almost one-third are highway bridges, is a \$350,000 hotel at McKinley Park Station, Alaska, now nearing completion, and a U. S. Border station on Chief Mountain Highway, Glacier National Park, Montana.

After two years of work and study, the Branch of Plans and Design has completed a rigid Building Code covering all work to be done henceforth in National Parks, and assuring proper design and construction, whether government or otherwise, within their boundaries.



CHECKING STATION, COOKE ENTRANCE
YELLOWSTONE NATIONAL PARK
Branch of Plans and Design, National Park Service, Architects.

RANGER'S RESIDENCE
YOSEMITE NATIONAL PARK
Branch of Plans and Design, National Park Service, Architects.





FEDERAL EMERGENCY ADMINISTRATION OF PUBLIC WORKS

INTERIOR DEPARTMENT

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Assistant Administrator—HOWARD A. GRAY

Regional Directors

Region 1—M. E. Gilmore, 2 Lafayette St., New York City.

Region 2—D. R. Kennicott, 20 N. Wacker Drive, Chicago, Ill.

Region 3—H. T. Cole, Citizens & Southern Nat. Bank Bldg., Atlanta, Ga.

Region 4—R. A. Radford, Farm Credit Bldg., Omaha, Nebraska.

Region 5—G. A. Bull, Electric Building, Fort Worth, Texas.

Region 6—K. A. Goodwin (acting), Hewes Bldg., San Francisco, Calif.

Region 7—C. C. Hockley, Falling Bldg., Portland, Oregon.

The Public Works Administration is now directly concerned with construction. It considers the merits of proposed construction projects and if they are found to merit PWA assistance, approval is given. The Administration has \$200,000,000 available for Federal projects and \$800,000,000 for non-Federal. For Federal projects \$100 of the cost of the project

may be approved. For non-Federal projects, the Administration may not grant more than 45%. The state, county or municipality must make up the remainder.

For approved Federal and non-Federal projects see list at back of this magazine, complete to time of going to press.

THE PUBLIC WORKS ADMINISTRATION PROJECT TO RESTORE THE CHESAPEAKE AND OHIO CANAL

PURCHASE of the old Chesapeake and Ohio Canal and its restoration and conversion to a recreational area moved a step nearer achievement with receipt by the Public Works Administration of \$2,500,000 resulting from sale of PWA bonds, by the Reconstruction Finance Corporation.

The funds have been transferred to the National Park Service of the Department of the Interior, which entered into negotiations with the receivers of the canal company for the acquisition of the property.

Plans for the development of this 186-mile waterway, which runs from the Georgetown section of Washington, D. C., to Cumberland, Maryland, include the restoration of the canal as a functioning waterway for some distance from Washington. This involves the rebuilding of locks, gates, sidewalls and ducts between Washington and Seneca Creek, and the restoration of the dam at Seneca Creek. The reconstruction of the noted Great Falls Tavern may also be undertaken.

Plans call for work by the CCC in the rebuilding of the old towpath, some of the drainage channels and revetement walls which have become damaged since the canal was abandoned in 1924.

Considerable negotiations must be undertaken by the Government before title to the property is acquired. The C. & O. Canal Company has been in the hands of receivers since the last of the trustees appointed to operate the waterway died. A majority of the stocks and bonds of the company are owned by a railroad which has pledged them to the RFC as part collateral for a loan. The contract with the receivers for the acquisition of the property will require approval of the courts. It is expected, however, that negotiations can be completed in a relatively short time.

The purchase will include the canal itself together with appurtenant land that includes a right of way of approximately 120 to 160 feet wide for the entire distance.

The C. & O. Canal dates back as far as about 1750. At that time plans were discussed and surveys made of the area with the idea of establishing a channel of water transportation from the east into the heart of the Alleghenies. In 1823 the canal was incorporated by the Virginia legislature and in the same year con-

firmed both by Maryland and the Congress. Pennsylvania's ratification followed in 1826.

Work on the canal was started in 1828 and traffic was being moved by 1830. It was completed through to Cumberland in 1850 and continued in operation until 1924. Along its course moved quaint canal boats, hauled by mules, conveying merchandise, coal and other freight, as well as passengers.

The development of the waterway cost approximately \$15,000,000 including funds spent for repairs following damaging floods. It served to bring the Ohio Valley closer to the Atlantic Seaboard. It furnished transportation to the important pass through the Alleghenies at Cumberland. Recurring floods made the canal expensive to maintain and traffic ceased after the heavy flood of 1924. Sections of the waterway still are in use, however, and supply water for commercial purposes. The section immediately above Washington is still utilized to supply water power for Georgetown factories.

The canal includes a number of locks in its 186-mile course between the National Capital and Cumberland, as well as 11 aqueducts, a tunnel and seven dams on the Potomac River, used for water diversion. In addition there are a large number of houses, canal stations and the old tavern at Great Falls.

Many of the canal structures, such as locks, were so substantially constructed that they can be restored, if deemed advisable. Most of the stone-arch aqueducts are in well preserved condition, despite the floods they have endured. Near Paw Paw, West Virginia, between Cumberland and Hancock, Maryland, the canal passes through a tunnel .6 of a mile long.

The active service of the old canal, covering a period of 94 years, saw the Nation grow from its original small area to the Pacific Coast. While its boats plied up and down, the country went through the Mexican War, the War Between the States, the Spanish-American War and the World War, with the old waterway playing its part in all four. Because of its rich historical background, the acquisition of the property and its rehabilitation for roads and recreational purposes had been under consideration for many years but was impossible of accomplishment up to this time.

Intensive use of the waterway between Washington and Seneca for canoeing and boating is anticipated by the Park Service.



Views on the C. and O. Canal

Photographs by H. J. Kelly



Talihina Hospital, Oklahoma

CONSTRUCTION DIVISION

OFFICE OF INDIAN AFFAIRS INTERIOR DEPARTMENT

■ **W**HEN the War Department was created by Congress under the Act of August 7, 1789, among the duties assigned to it were those "relative to Indian Affairs." In 1824 a Bureau of Indian Affairs was organized in the War Department. March 3, 1849, the Department of Interior was created and the Bureau transferred to civil control. As organized the Bureau included in its personnel: A Commissioner, Assistant Commissioner, Chief Clerk, Superintendent of Indian Schools, Private Secretary to the Commissioner, and a force of 175 clerks, including financial clerk, law clerk, chiefs of divisions, bookkeepers, architect, draftsmen, besides 13 messengers, laborers, and charwomen.

The Construction Division was organized with the creation of the Department of the Interior on March 3, 1839, when the Indian Bureau was transferred from the War Department. The one Architect appointed in 1849 prepared all the drawings and specifications for all new construction in the Indian Service at that time. Obviously, it was necessary for a large portion of this work to be detailed to the Superintendents of various Indian Agencies.

The present organization of the Construction Division of the Indian Service consists of an administrative, architectural, mechanical and other units in the Washington Office and three Field organizations with headquarters in Billings, Montana, Albuquerque,

que, New Mexico; and Muskogee, Oklahoma.

The organization in Washington consists of approximately 50 employees in the Division. Mr. Edward A. Poynton is in charge of the Division with the title of "Chief Supervisor of Construction." Mr. Hans R. Stamm is Chief of the Architectural Section. The Field office in Billings, Montana, and Albuquerque, New Mexico, have approximately 35 employees each and the Muskogee, Oklahoma, office has approximately 15 employees.

During the past 4 years Mayers, Murray and Phillip, Architects, of New York City, designed a large number of projects for Indian schools, etc., that were built in the Southwest and Schmidt, Garden and Erikson of Chicago, who specialize in hospital designing, prepared plans for a number of hospital projects.

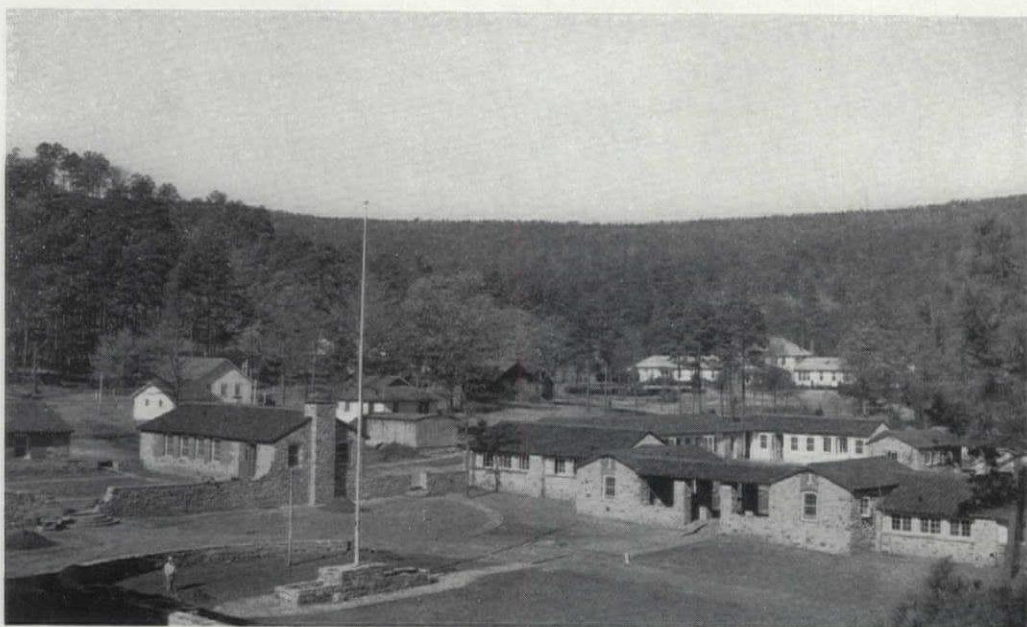
Practically all of the architectural work for projects in the Indian Service is now performed by the staff of architects regularly employed in the Construction Division. The type of construction involves the use of native materials to a large extent and includes construction in stone, brick, terracotta, frame, concrete block, log, and adobe. The types of buildings designed and built in the Indian Service include hospitals, schools, nurses' quarters, cottages, auditoriums, gymnasiums, office buildings, central heating plants and utility developments such as water, sewer and electrical generating plants.

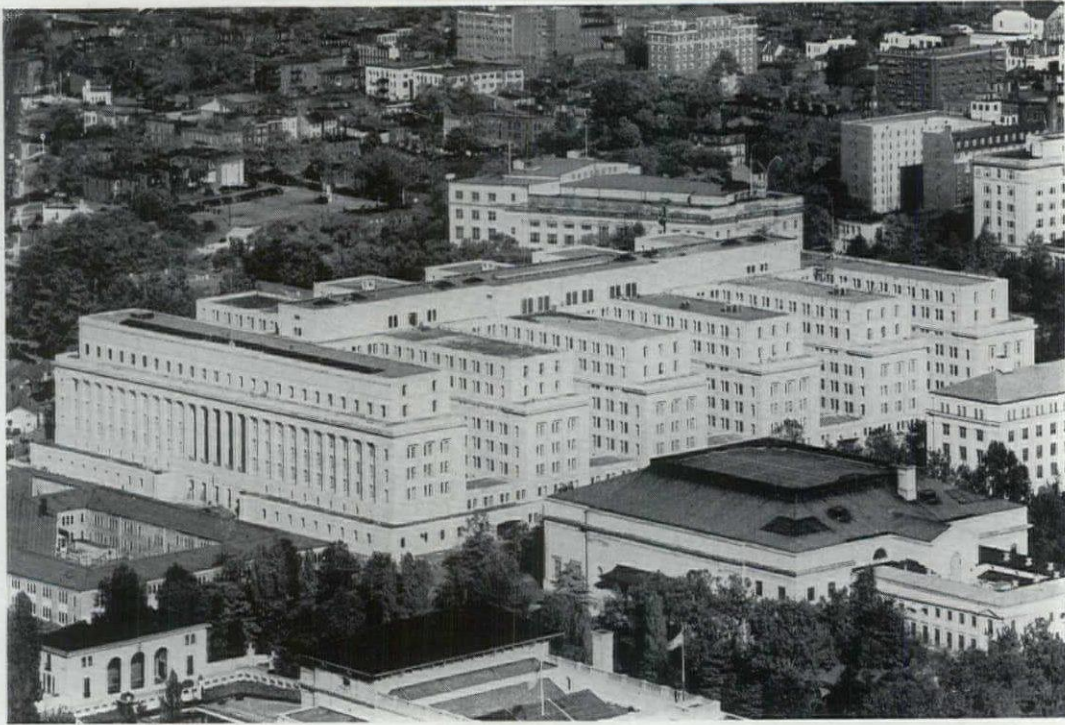


The largest project built by the Indian Service is at Talihina, Oklahoma, which is a Hospital and Ambulatory Building, Doctors' Houses, Nurses' Quarters and Recreation and Dining Room Building. The average hospital designed in the Indian Service is for 30 to 50 beds. Dormitories and hospitals are usually constructed of brick at a cost of approximately \$100,000 to \$150,000. The present program for the regular appropriations involves \$4,000,000 in various projects ranging from horse barns at \$10,000 to a Hospital at Crown Point, New Mexico, costing approximately \$200,000. There are approximately 120 projects under construction at the present time from regular appropriations and approximately 82 from funds allotted from Public Works Administration funds.

The type of architecture depends to a large extent on local conditions and available local materials. The designing, therefore, in the Indian Service is quite varied and covers not only a large number of different types of buildings but different materials and methods of construction.

■ THE Talihina Hospital on the previous page, the hospital at Case Lake, Minnesota (above) and the Nurses Quadrangle (below) at Talihina, Oklahoma, were designed by the Construction Division of the Office of Indian Affairs.





INTERIOR DEPARTMENT U. S. HOUSING AUTHORITY

NATHAN STRAUS, *Administrator*

THE United States Housing Authority was set up in the fall of 1937 under the terms of the Wagner Housing Act, which authorized \$800,000,000 for a long-range slum-clearance and low-rent housing program. The Authority is authorized to lend at 3¼%, moneys to finance approved housing projects up to 90% of the value of each project. The USHA works through housing authorities in the several states. Twenty-six states, the District of Columbia and the territories of Hawaii and Puerto Rico are participating in the housing program.

More than \$500,000,000 has been earmarked and 30 loan contracts have been closed in 28 cities, providing 30,000 dwelling units.

The rental to be charged per room upon completion varies. In San Antonio it is \$2 per month, in New York City, \$5.15. The average is \$4.

The complete list of commitments by the United States Housing Authority (including earmarkings outstanding and loan contracts signed) for 129 local Housing Authorities in 26 states, the District of Columbia, the Territory of Hawaii, and Puerto Rico, is as follows:

Earmarking of funds for local housing authorities is the initial step taken in negotiations for loans from the USHA. The funds are set aside upon formal requests of local housing authorities. The earmarked funds are held for a limited time pending formal application for a loan contract, which requires the approval of the President upon recommendation of the USHA Administrator.

<i>State and City</i>	<i>Earmarkings Outstanding</i>		
ALABAMA			
Anniston	\$ 540,000		
Birmingham	4,172,000		
Gadsden	900,000		
Mobile	1,400,000		
Phenix City	500,000		
CALIFORNIA			
Los Angeles City	25,000,000		
Los Angeles County	5,000,000		
Oakland	5,000,000		
San Francisco	15,000,000		
CONNECTICUT			
Bridgeport	6,500,000		
Hartford	4,500,000		
Norwalk	450,000		
DISTRICT OF COLUMBIA			
Washington	15,000,000		
FLORIDA			
Daytona Beach	500,000		
Miami	2,250,000		
Orlando	450,000		
Pensacola	900,000		
Sarasota	270,000		
GEORGIA			
Athens	270,000		
Atlanta	9,000,000		
Columbus	850,000		
Macon	1,250,000		
Rome	540,000		
Savannah	2,700,000		
HAWAII			
	2,400,000		
ILLINOIS			
Chicago	16,000,000		
East St. Louis	1,500,000		
INDIANA			
Anderson	750,000		
Delaware County	400,000		
Fort Wayne	1,500,000		
Gary	2,800,000		
Hammond	1,800,000		
Kokomo	600,000		
Marion	500,000		
Muncie	900,000		
Richmond	600,000		
Vincennes	270,000		
KENTUCKY			
Covington	2,700,000		
Frankfort	450,000		
Lexington	1,350,000		
Newport	750,000		
Paducah	900,000		
LOUISIANA			
New Orleans	10,000,000		
MARYLAND			
Annapolis	400,000		
Baltimore	6,384,000		
Frederick	450,000		
MASSACHUSETTS			
Boston	24,000,000		
Cambridge	3,000,000		
Holyoke	1,500,000		
Lowell	2,700,000		
Somerville	2,000,000		
MICHIGAN			
Detroit	8,436,000		
MISSISSIPPI			
Hattiesburg	600,000		
MONTANA			
Billings	270,000		
Great Falls	675,000		
NEW JERSEY			
Asbury Park	540,000		
Bayonne	1,800,000		
Camden	2,500,000		
Elizabeth	2,500,000		
Jersey City	7,500,000		
Long Branch	540,000		
Montclair	900,000		
Newark	12,600,000		
North Bergen	900,000		
Orange	900,000		
Perth Amboy	1,350,000		
Plainfield	900,000		
Trenton	2,700,000		
NEW YORK			
Buffalo	4,257,000		
New York City	23,000,000		
Schenectady	1,400,000		
Utica	900,000		
Yonkers	2,200,000		
NORTH CAROLINA			
Raleigh	1,000,000		
Wilmington	900,000		
OHIO			
Akron	5,000,000		
Cincinnati	10,500,000		
Cleveland	8,847,000		
Columbus	2,612,000		
Dayton	3,376,000		
Toledo	3,756,000		
Warren	1,000,000		
Youngstown	2,000,000		
Zanesville	1,350,000		

(Continued on page 65)

LISTS OF PROJECTS

PROCUREMENT DIVISION (1)

A list of projects for which funds are allotted by the Public Works Administration or by Special Act and whose design and construction is under the supervision of the Procurement Division follows:

Bureau of Standards, Special Act ...	\$300,000	Terre Haute, Ind., Pen., P.W.A. ...	2,721,631	Salem, Mass., C. G. A. S., Special Act	33,250
Los Angeles, Calif., Q. S., P.W.A. ...	60,000	Leavenworth, Kans., Pen., P.W.A. ...	127,000	Charleston, S. C., C. G. A. S., Special Act	1,900
Rosebank, N. Y., Q. S., P.W.A. ...	160,000	Ashland, Ky., Jail, P.W.A. ...	1,292,000	Miami, Fla., C. G. A. S., Special Act	47,000
Detroit, Mich., M. H., P.W.A. ...	70,000	Milan, Mich., Jail, P.W.A. ...	90,000	St. Petersburg, Fla., C. G. A. S., Special Act	42,000
Baltimore, Md., M. H., P.W.A. ...	160,000	Sandstone, Minn., Jail, P.W.A. ...	250,000	Elizabeth City, N. C., C. G. A. S., Special Act	540,000
Bethesda, Md., Nat. Inst. of Health, P.W.A. ...	1,517,000	Springfield, Mo., Med. Center, P.W.A. ...	803,000	San Francisco, Calif., C. G. A. S., Special Act	600,000
Hamilton, Mont., P. H. S. Lab., P.W.A. ...	407,000	Dallas, Tex., Women's Inst., P.W.A. ...	500,000	Navy Dept., (Additional Story) Special Act	210,000
Stapleton, N. Y., M. H., P.W.A. ...	1,116,000	Texarkana, Tex., Jail, P.W.A. ...	927,000	Social Security Bldg., Special Act	14,250,000
Stapleton, N. Y., M. H., P.W.A. ...	46,000	Lewisburg, Pa., Pen., P.W.A. ...	69,600	War Dept. Bldg., Special Act	10,815,000
Alcatraz Island, Calif., Pen., P.W.A. ...	1,110,000	Springfield, Mo., Med. Center, P.W.A. ...	120,000		
Denver, Colo., Jail, P.W.A. ...	1,310,000	Alderson W. Va., Reform., P.W.A. ...	40,000		
Danbury, Conn., Jail, P.W.A. ...	1,600,030	Milan, Mich., Jail, P.W.A. ...	38,528		
		Sandstone, Minn., Jail, P.W.A. ...	36,425		
		Alderson, W. Va., Reform., P.W.A. ...	12,000		

PROCUREMENT DIVISION (2)

A list of projects under the emergency construction program of the Procurement Division follows. The projects are listed in blocks, indicating stages of progress, those mentioned first being furthest advanced. All projects not otherwise noted are post offices. The abbreviation B.S. indicates Border Station; Ct.H., Court House; Cu.H., Custom House; Q.S., Quarantine Station; P.H.S., Public Health Service.

BLOCK NO. 1					
Anacortes, Wash.	\$33,500	Eunice, La.	70,000	Grand Ledge, Mich.	75,000
Auburn, Cal.	4,000	Eutaw, Ala.	75,000	Greenville, Mich.	85,000
Brownfield, Tex.	75,000	Foxboro, Mass.	85,000	Harrison, N. Y.	80,000
Chicago, Ill., App. Ct.	598,500	Hammonton, N. J.	87,000	Horseheads, N. Y.	70,000
Concord, Mass.	30,000	Ida Grove, Iowa	75,000	Kenova, W. Va.	75,000
Concord, N. H.	35,000	Jackson, Mo.	75,000	Knoxville, Iowa	90,000
Corning, Iowa	75,000	Lake Village, Ark.	75,000	Lake Geneva, Wisc.	90,000
De Funiak Springs, Fla.	75,000	Littleton, Colo.	85,000	Lees Summit, Mo.	70,000
Delta, Colo.	45,000	Mannington, W. Va.	75,000	Middleport, Ohio	70,000
Elgin, Tex.	70,000	Manteca, Cal.	75,000	New Concord, Ohio	85,000
Evanston, Ill.	141,500	McLeansboro, Ill.	70,000	New Rockford, N. D.	90,000
Glasgow, Mont.	90,000	Mullins, S. C.	75,000	Olathe, Kan.	75,000
Kewaunee, Wisc.	11,000	Newton, Ill.	75,000	Oswego, Kan.	80,000
Lampasas, Tex.	75,000	Oak Harbor, Ohio	70,000	Preston, Idaho	70,000
Lemior City, Tenn.	75,000	Park Rapids, Minn.	80,000	Rosenberg, Texas	92,000
Livingston, Tex.	75,000	Paulding, Ohio	75,000	Wareham, Mass.	85,000
Los Angeles, Cal., P. O. & Ct. H. ...	1,030,000	Rockdale, Tex.	70,000	Washington, N. J.	75,000
Louisville, Ky.	100,000	San Juan, P. R.	650,000	Waukon, Iowa	75,000
Madill, Okla.	75,000	Sedro Woolley, Wash.	75,000	Waupaca, Wisc.	89,000
Marysville, Ohio	16,000	Seneca, Kan.	75,000	Waverly, Ohio	75,000
Nashville, Tenn., Ct. H.	145,000	Vernal, Utah	30,000	Whiteville, N. C.	75,000
New York, N. Y., Grand Cent. Annex	1,337,500	Vinita, Okla.	140,000	Williamston, N. C.	78,000
New York, N. P., P. O.	250,000	Wellington, Tex.	82,000		
Pacific Grove, Cal.	10,200				
Paducah, Ky.	60,000				
Paris, Ark.	75,000	<i>Group C</i>		<i>Group A</i>	
Pasadena, Cal.	57,700	Anson, Tex.	\$75,000	Augusta, Me., P. O. & Ct. H.	\$170,000
Phila., Pa., Ct. H.	700,000	Bethesda, Md., Cancer Institute.	750,000	Bryan, Tex.	105,000
Port Washington, Wisc.	20,000	Back River Falls, Wis.	80,000	Chicago, Ill., Ct. H.	150,000
Purcell, Okla.	75,000	Bloomfield, Ind.	80,000	Chisholm, Minn.	75,000
Rhinebeck, N. Y.	75,000	Depew, N. Y.	75,000	Cochran, Ga.	75,000
St. Paul, Minn., North St. Paul Branch	70,000	Fairbury, Ill.	70,000	Detroit, Mich., Lincoln Pk.	80,000
San Francisco, Cal. Mint	220,000	Fort Worth, Tex., P. H. S.	1,300,000	Dolgeville, N. Y.	90,000
Sayre, Okla.	75,000	Greybull, Wyo.	85,000	Eldora, Iowa	80,000
Schuyler, Neb.	75,000	Hart, Mich.	75,000	Elizabethtown, Va.	95,000
Spencer, Ind.	13,750	Lancaster, Wis.	80,000	Harrisonburg, Va.	540,000
Tucson, Ariz.	128,700	Liberty, Tex.	75,000	Hickman, Ky.	75,000
Union City, N. J.	53,000	Los Banos, Cal.	75,000	Houston, Miss.	70,000
West New York, N. J.	85,000	Mifflinburg, Pa.	75,000	Leakesville, N. C.	73,000
		Opp, Ala.	70,000	Ligonier, Ind.	100,000
		Osborn, Ohio	72,000	Los Angeles, Cal., P. O. & Ct. H.	550,000
<i>Group A</i>		Richfield Springs, N. Y.	83,000	Lowell, Mich.	70,000
Angola, N. Y.	\$70,000	Russellville, Ark.	155,000	Monticello, Iowa	72,000
Berryville, Ark.	75,000	Spring Valley, Minn.	72,000	Mount Ayr, Iowa	75,000
Columbus, Wisc.	75,000	Waynesboro, Miss.	75,000	New London, Ohio	75,000
Flandreau, S. D.	78,000	Weldon, N. C.	70,000	Norwich, Conn.	185,000
Hamilton, Ill.	70,000			Okemah, Okla.	90,000
Leland, Miss.	70,000	<i>Group D</i>		Oregon, Ill.	80,000
Midland, Pa.	80,000	Boone, N. C.	\$75,000	Orofino, Idaho	80,000
		Booneville, Miss.	75,000	Red Cloud, Nebr.	75,000
<i>Group B</i>		Camas, Wash.	80,000	Rockville, Md.	120,000
Altavista, Va.	\$75,000	Campbell, Ohio	70,000	Safford, Ariz.	90,000
Bordentown, N. J.	72,000	Canoga Park, Cal.	75,000	Savannah, Mo.	75,000
Cambridge, Minn.	75,000	Caro, Mich.	80,000	Spearfish, S. D.	75,000
Cassville, Mo.	75,000	Chilton, Wisc.	80,000	Windom, Minn.	75,000
Charleston, Miss.	73,000	Crawford, Neb.	70,000		
Electra, Tex.	75,000	Dennison, Ohio	70,000	<i>Group B</i>	
		De Witt, Ark.	75,000	All States for Construction of Mech. Equipment	\$1,500,000
		Farmersville, Texas	70,000	Ashland, Mass.	80,000
		Grand Junction, Col.	200,000		

BLOCK NO. 4

Group A

Athens, Ga.	220,000
Baltimore, Md. (Catonsville)	100,000
Baltimore, Md. (Curtis Bay)	350,000
Bangor, Pa.	108,000
Batesburg, S. C.	70,000
Belmont, N. C.	73,000
Birmingham, Ala., P. O.	115,000
Birmingham, Mich.	155,000
Blackstone, Va.	70,000
Bluefield, Va.	70,000
Bowing Green, Ky.	125,000
Bridgeville, Pa.	85,000
Brockport, N. Y.	75,000
Burford, Ga.	70,000
Canton, Mo.	70,000
Canton, N. C.	80,000
Carville, La., M. H.	1,500,000
Chagrin Falls, Ohio	75,000
Chicago, Ill., Uptown Sta.	400,000
Cincinnati, Ohio, P. H. S. Lab.	275,000
Cleveland, Ohio, C. G. Hdqtrs.	160,000
Coldwater, Ohio	75,000
Columbus, Ind.	105,000
Council Grove, Kan.	75,000
Crookston, Minn.	85,000
Cuyahoga Falls, Ohio	165,000
Denver, Col., South Denver Br.	170,000
Detroit, Mich., Highland Pk.	300,000
East St. Louis, Ill.	145,000
Elkton, Md.	99,000
Ellicott City, Md.	90,000
Enfala, Okla.	75,000
Falls Church, Va.	75,000
Ford City, Pa.	78,000
Fort Stanton, N. Mex., M. H.	265,000
Frankfort, Ky.	325,000
Fullerton, Cal.	123,000
Great Neck, N. Y.	175,000
Green Bay, Wisc.	250,000
Haleyville, Ala.	70,000
Hartselle, Ala.	70,000
Honolulu, Hawaii, Schofield Barracks	80,000
Hot Springs, N. Mex.	75,000
Hutchinson, Kan.	310,000
Iron River, Mich.	100,000
Jamaica, N. Y., Woodhaven Branch	175,000
Kent, Wash.	81,000
Laconia, N. H.	175,000
La Fayette, La.	155,000
Lake Wales, Fla.	87,000
Laurinburg, N. C.	78,000
Leetonia, Ohio	70,000
Livermore, Cal.	87,000
Longview, Tex.	235,000
Lowville, N. Y.	100,000
Lynwood, Cal.	75,000
Madison, Conn.	75,000
Malden, Mass.	28,000
Manchester, Ga.	70,000
Manitou Springs, Col.	75,000
Mansfield, Ohio	180,000
Many, La.	75,000
Marshall, Tex.	100,000
Martinsville, Va.	138,000
Masontown, Pa.	75,000
Mebane, N. C.	70,000
Medford, Ore.	230,000
Metuchen, N. J.	95,000
Millburn, N. J.	80,000
Milford, N. H.	75,000
Minot, N. D.	215,000
Mobile, Ala., Ct. H. & Cu. H.	380,000
Montezuma, Ga.	73,000
Morehead City, N. C.	70,000
Mount Olive, Ill.	70,000
Mount Sterling, Ill.	70,000
Newcastle, Ind.	85,000
New Orleans, La., M. H.	130,000
Newport News, Va.	225,000
New York, N. Y., Hudson Sta., M. H.	50,000
New York, N. Y., Stapleton N. H.	19,000
Norway, Maine	75,000
Odessa, Tex.	75,000
Paulsboro, N. J.	72,000
Paw Paw, Mich.	85,000
Perry, Okla.	77,000
Pittsburgh, Pa., M. H.	75,000
Pittsburgh, Pa., Squirrel Hill Sta.	140,000
Robstown, Texas	70,000
Roncoverte, W. Va.	75,000
Salt Lake City, Utah, Sugar House Sta.	150,000
San Diego, Cal., Cu. H.	150,000
Savannah, Tenn.	75,000
Sheboyville, Ill.	105,000
Shelton, Conn.	90,000
Smithfield, Va.	70,000
South San Francisco, Cal.	111,000
Springfield, Ky.	75,000
Tecumseh, Mich.	70,000
Toms River, N. J.	95,000
Tonawanda, N. Y.	185,000
Venice, Cal.	160,000
Vivian, La.	70,000
Woodruff, S. C.	70,000
Yakima, Wash.	250,000
York, Pa.	450,000

Ashland, Wisc.	\$200,000
Benton, Ill.	91,000
Blackshear, Ga.	75,000
Blawnox, Pa.	75,000
Burns, Ore.	80,000
Caldwell, Kan.	70,000
Carthage, Miss.	70,000
Columbia, Tenn.	340,000
Delmar, N. Y.	75,000
Detroit, Mich., New Fairview Sta.	230,000
Greenwood, S. C.	300,000
Guntersville, Ala.	75,000
Hamburg, Pa.	85,000
Indian Orchard, Mass.	86,000
Kankakee, Ill.	220,000
Lake Providence, La.	75,000
Lewiston, Ill.	75,000
Los Angeles, Cal., Belvedere Gardens Br.	122,000
Lynn, Mass., Saugus Br.	80,500
Memphis, Tenn., P. O., Garage	195,000
Milwaukee, Wisc., West Allis Branch	200,000
Monticello, Ind.	80,000
Mount Hope, W. Va.	75,000
Newark, N. Y., Nutley Branch	125,000
New York, N. Y., Sta. J.	650,000
New York, N. Y., Wakefield Sta.	210,000
North Bergen, N. J.	145,000
Oakville, Conn.	80,000
Orlando, Fla.	595,000
Oxnard, Cal.	124,000
Pelham, Ga.	70,000
Plainfield, N. J.	275,000
Port Everglades, Fla.	90,000
Rockwell City, Iowa	75,000
Russell, Kan.	80,000
Sainte Genevieve, Mo.	75,000
St. Louis, Mo., Clayton Branch	120,000
San Francisco, Cal., I. S.	4,250,000
Scranton, Pa., West Scranton	80,000
Selbyville, Del.	70,000
Sevierville, Tenn.	75,000
Sharon, Pa.	240,000
Sylvania, Ga.	75,000
Union City, Pa.	80,000
Virgin Islands, Insular Bldgs.	200,000
Westerly, R. I.	150,000
Wilmington, Cal.	190,000
Winchenden, Mass.	85,000
Yuba City, Cal.	109,000

Group B

Anchorage, Alaska	\$825,000
Ashland, Va.	70,000
Ayer, Mass.	80,000
Boston, Mass., P. O. Garage	1,300,000
Boston, Mass., Wollaston Br.	90,000
Charleston, W. Va.	975,000
Clinton, Mo.	170,000
Conshohocken, Pa.	120,000
Dallas, Tex., P. P. B.	500,000
Dexter, Me.	75,000
Ellenville, N. Y.	105,000
Enterprise, Ala.	70,000
Gloversville, N. Y.	270,000
Greenfield, Mass.	95,000
Gresham, Ore.	75,000
Hamilton, Mont., P. H. S.	215,000
Hammond, Ind.	625,000
Houston, Tex., A. S.	250,000
Ipswich, Mass.	100,000
Little Valley, N. Y.	80,000
Manistique, Mich.	80,000
Midland, Mich.	130,000
Montpelier, Vt.	475,000
Newport, Ky., Ft. Thomas Br.	75,000
Omaha, Neb.	3,000,000
Placerville, Cal.	85,000
Plano, Ill.	70,000
Rockmart, Ga.	70,000
Seattle, Wash., P. O. & Cu. H.	400,000
Sidney, Mont.	80,000
Spokane, Wash.	700,000
Union, Mo.	75,000
Webster Springs, W. Va.	80,000
Willmar, Minn.	75,000

Group C

Clyde, N. Y.	\$70,000
Crestline, Ohio	75,000
Dayton, Ohio	1,150,000
Decherd, Tenn.	75,000
Evansville, Ind.	950,000
Irwin, Pa.	103,000
Laredo, Tex., B. S.	290,000
Piedmont, Ala.	70,000
Skaneateles, N. Y.	75,000
Wake Forest, N. C.	70,000

BLOCK NO. 5

Baltimore, Md., Franklin Sta.	\$130,000
Burgettstown, Pa.	75,000
Burlington, Iowa	250,000

Crawfordsville, Ind.	175,000
Emaus, Pa.	80,000
Flemingsburg, Ky.	75,000
Flint, Mich., Oak Park Sta.	140,000
Gleason, Tenn.	70,000
Hinsdale, Ill.	110,000
Lebanon, Pa.	240,000
Minersville, Pa.	80,000
Moberly, Mo.	170,000
Philadelphia, Pa., Garage	760,000
Pikeville, Ky.	135,000
Pittsford, N. Y.	70,000
Renova, Pa.	85,000
Roaring Spring, Pa.	75,000
Susquehanna, Pa.	75,000
Starke, Fla.	70,000
Tonopah, Nev.	95,000
Tupper Lake, N. Y.	75,000
Waterford, N. Y.	75,000
Wayne, Pa.	125,000
Wilmerding, Pa.	110,000
Yukon, Okla.	70,000

Andrade, Cal., B. S.	\$20,000
Bridgewater Boundary, Me., B. S.	30,000
Easton, Me., Flewelling Settlement	20,000
Fort Fairfield, Me., Aroostock Falls Road	20,000
Fort Fairfield, Me., Four Falls Road	20,000
Hannah, N. D.	20,000
Maida, N. D.	20,000
Moravia, N. Y.	70,000
Nighthawk, Wash., B. S.	20,000
Roseau, Minn.	20,000
Sarles, N. D., B. S.	20,000
Southington, Conn.	88,000
Whitetail, Mont., B. S.	20,000
Wild Horse Trail, Mont., B. S.	20,000
Willow Creek, Mont., B. S.	20,000

All States—Minor Constr. Mech. Equip.	\$500,000
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Annapolis, Md.	\$135,000
Baltimore, Md., A. S.	850,000
Billings, Mont., P. O., Etc.	85,000
Brooklyn, N. Y., P. O., Etc.	90,000
Burns, Ore.	90,000
Carville, La., M. H.	2,600,000
Charleston, W. Va., Ct. H.	125,000
Chicago, Ill., Cu. H.	900,000
Concord, N. C.	85,000
Detroit, Mich., P. O., Etc.	1,125,000
Enid, Okla.	500,000
Florence, Ala.	130,000
Geneva, N. Y.	120,000
Kansas City, Mo.	165,000
Lake Charles, La.	360,000
Leavenworth, Kan.	300,000
Lexington, Ky., P. H. S.	1,315,000
Lincoln, Neb.	850,000
Little Rock, Ark.	400,000
Newport News, Va.	160,000
New York, N. Y., Cu. H.	400,000
North Adams, Mass.	115,000
Pittsburgh, Pa., P. O. & Ct. H.	135,000
Rome, Ga.	280,000
St. Paul, Minn.	790,000
Salina, Kan.	240,000
San Francisco, Cal., P. O., Etc.	90,000
Virgin Islands, Insular Bldgs.	285,000

Abingdon, Ill.	\$80,000
Abel, Ga.	70,000
Ahoksie, N. C.	70,000
Akron, N. Y.	70,000
Albion, Ill.	75,000
Albuquerque, N. Mex., F. O. B.	925,000
Alvin, Texas	70,000
Amherst, Ohio	70,000
Anamosa, Iowa	75,000
Anchorage, Ky.	70,000
Antelope Wells, N. Mex., B. S.	20,000
Antioch, Cal.	75,000
Apponaug, R. I.	75,000
Arecibo, P. R.	85,000
Arlington, Texas	75,000
Ashburn, Ga.	75,000
Ashland, Pa.	70,000
Athens, Pa.	80,000
Atlanta, Ga., Garage	285,000
Austin, Texas, P. O., New	480,000
Bakersfield, Cal.	330,000
Ball Ground, Ga.	70,000
Baltimore, Md., Dundalk Br.	88,000
Beaver, Pa.	100,000
Beaver, Utah, Agri.	75,000
Belding, Mich.	70,000
Belle Vernon, Pa.	75,000
Bell Flower, Cal.	75,000
Benton, Ark.	75,000
Beresford, S. D.	75,000
Berwyn, Ill.	180,000
Bessemer, Mich.	75,000
Bethany, Mo.	75,000
Bicknell, Ind.	70,000
Bishopville, S. C.	75,000
Bluffton, Ohio	80,000

Bolivar, Tenn.	75,000	Frankfort, Mich.	70,000	Northville, Mich.	75,000
Boonville, Ind.	80,000	Frankfort, N. Y.	75,000	Nowata, Okla.	78,000
Boston, Mass., P. O., Annex	2,800,000	Franklin, Ky.	75,000	Oakland, Md.	80,000
Boston, Mass., P. O., Chestnut Hill Br.	75,000	Galena, Kan.	75,000	Oglesby, Ill.	70,000
Boston, Mass., P. O., Dorchester Center Sta.	123,000	Garwood, N. J.	75,000	Okanogan, Wash.	147,000
Boston, Mass., P. O., Stoneham Br.	100,000	Geneva, Neb.	75,000	Omaha, Neb., Benson Sta.	75,000
Boston, Mass., P. O., Weymouth Br.	90,000	Girard, Pa.	85,000	Ontario, Cal.	150,000
Brackenridge, Pa.	75,000	Golden, Colo.	80,000	Opheim, Mont., B. S.	20,000
Breeze, Ill.	75,000	Grangeville, Idaho	80,000	Orchard Park, N. Y.	70,000
Brevard, N. C.	105,000	Green Castle, Pa.	75,000	Ord, Neb.	75,000
Bristol, R. I.	80,000	Grundy, Va.	75,000	Oxford, N. Y.	70,000
Bronson, Mich.	80,000	Guilford, Conn.	75,000	Pasadena, Texas	70,000
Brooklyn, N. Y., Sta. "S"	235,000	Halstead, Kan.	70,000	Penns Grove, N. J.	107,000
Buchanan, Mich.	75,000	Hamlet, N. C.	75,000	Perkasie, Pa.	75,000
Buhl, Idaho	80,000	Hardinsburg, Ky.	75,000	Perry Mills, N. Y., B. S.	20,000
Burlingame, Cal.	215,000	Hayward, Wisc.	75,000	Perrysburg, Ohio	72,000
Burlington, Kan.	90,000	Hearne, Tex.	70,000	Philadelphia, Pa., Q. S.	225,000
Cadiz, Ky.	75,000	Hereford, Texas	75,000	Pineville, La.	70,000
Cairo, Ill., P. O. & Ct. H.	435,000	Hollis, Okla.	75,000	Pinnacle Road, Vt., B. S.	20,000
Caledonia, Minn.	75,000	Homewood, Ill.	70,000	Pleasantville, N. J.	140,000
Calexico, Cal.	111,000	Honeoye Falls, N. Y.	70,000	Plymouth, Wisc.	85,000
Cambridge City, Ind.	70,000	Hot Springs, Va.	75,000	Radford, Va.	75,000
Camilla, Ga.	75,000	Hubbard, Ohio	70,000	Raymond, Wash.	75,000
Campo, Cal., B. S.	20,000	Hudson, Wisc.	73,000	Red Springs, N. C.	70,000
Canastota, N. Y.	105,000	Jackson, Me., B. S.	65,000	Redwood Falls, Minn.	80,000
Carlisle, Ky.	75,000	Jacksonville, Ala.	70,000	Reedley, Cal.	75,000
Carrollton, Ala., Agri. & P. O.	75,000	Jamestown, N. Y.	725,000	Refugio, Texas	75,000
Carteret, N. J.	94,000	Jeanerette, La.	70,000	Rifle, Colo.	75,000
Chardon, Ohio	78,000	Jefferson City, Tenn.	70,000	Riverton, N. J.	81,000
Charleston, S. C.	465,000	Jenkintown, Pa.	85,000	Riverton, Wyo.	85,000
Chicago, Ill., Jackson Park Sta.	300,000	Jersey Shore, Pa.	88,000	Roanoke, Ala.	70,000
Chillicothe, Ill.	70,000	Kingman, Kan.	75,000	Rodessa, La.	70,000
Clarendon, Ark.	75,000	Kings Mountain, N. C.	73,000	Rogers City, Mich.	85,000
Clarion, Iowa	80,000	La Grange, Ind.	75,000	Rugby, N. D.	85,000
Clarkston, Wash.	73,000	Lake George, N. Y.	75,000	St. Helena, Cal.	75,000
Cleveland, Ohio, Garage	350,000	Lake Worth, Fla.	110,000	St. Louis, Mo., Maplewood Br.	108,000
Clifton, Texas	70,000	Lancaster, Cal.	75,000	St. Louis, Mo., Richmond Heights	118,000
Coalgate, Okla.	75,000	Lansford, Pa.	96,000	Saint Mary's, Pa.	100,000
Cocoa, Fla.	70,000	Lindsay, Okla.	70,000	Salem, W. Va.	75,000
Colorado Springs, Colo.	125,000	Lisbon, N. D.	85,000	San Augustine, Tex.	70,000
Columbia, S. C.	400,000	Littlefield, Texas	70,000	Sandusky, Mich.	70,000
Columbus, Neb.	100,000	Los Angeles, Cal., A. S.	90,000	San Leandro, Cal.	100,000
Columbus, Junction, Iowa	70,000	Los Angeles, Cal., Eagle Rock Sta.	1,175,000	Sauk Centre, Minn.	72,000
Cortland, N. Y.	235,000	Louisville, Ga.	75,000	Schenectady, N. Y., Scotia Branch	80,000
Corydon, Iowa	75,000	Louisville, Ohio	70,000	Scranton, Pa., Dunmore Branch	90,000
Covina, Cal.	82,000	Luverne, Ala.	70,000	Seattle, Wash., P. P. B.	2,000,000
Crosby, N. D., B. S.	20,000	Lynbrook, N. Y.	75,000	Sebring, Fla.	87,000
Crossett, Ark.	70,000	Lynden, Wash.	175,000	Sheridan, Ind.	70,000
Culver City, Cal.	129,000	Lyons, Ga.	73,000	Shippensburg, Pa.	93,000
Custer, S. D.	78,000	Macon, Miss.	75,000	Silver City, N. C.	70,000
Daniel Webster Highway, N. H., B. S.	20,000	Madison, N. C.	75,000	Sonoyta, Ariz., B. S.	20,000
Dannemora, N. Y.	70,000	Manchester, Mass.	85,000	South Hadley, Mass.	80,000
Dearborn, Mich., Monroe Blvd. Sta.	75,000	Marietta, Okla.	75,000	South River, N. J.	85,000
Del Bonita, Mont., B. S.	20,000	Marion, Ind.	300,000	Sparta, Mich.	70,000
Denton, Md.	75,000	Marlow, Okla.	70,000	Stamford, Conn.	275,000
Denver, Colo., P. P. B. & Gar.	1,050,000	Marshfield, Mo.	75,000	Stilwell, Okla.	75,000
DeQueen, Ark.	75,000	Martinsburg, W. Va.	75,000	Sweetwater, Tenn.	75,000
Des Plaines, Ill.	135,000	Mason City, Ill.	425,000	Tacoma, Wash., F. O. B.	450,000
Detroit, Mich., Garage	700,000	Mayville, Wisc.	70,000	Tarrytown, N. Y.	193,000
Dexter, Mo.	70,000	Miamisburg, Ohio	75,000	Teaneck, N. J.	75,000
Downingtown, Pa.	80,000	Middleburg, N. Y.	75,000	Tempe, Ariz.	85,000
Durant, Miss.	70,000	Middleport, N. Y.	70,000	Tillamook, Ore.	85,000
Durham, N. H.	78,000	Middletown, Del.	70,000	Toledo, Ohio, Garage	185,000
Easley, S. C.	70,000	Milan, Mich.	70,000	Toronto, Ohio	72,000
East Tawas, Mich.	145,000	Millbury, Mass.	80,000	Two Harbors, Minn.	75,000
East Walpole, Mass.	85,000	Mill Valley, Cal.	75,000	Viroqua, Wisc.	90,000
Edgerton, Wisc.	85,000	Milton, Fla.	500,000	Wailuku, Hawaii	130,000
Elba, Ala.	75,000	Milwaukee, Wisc., P. O., Etc.	70,000	Wallace, N. C.	70,000
El Dorado Springs, Mo.	70,000	Minonk, Ill.	500,000	Wappingers Falls, N. Y.	70,000
Fairmont, W. Va.	365,000	Mission, Tex.	95,000	Warrenton, Ga.	75,000
Falmouth, Mass.	85,000	Montour Falls, N. Y.	70,000	Watervliet, N. Y.	95,000
Fenton, Mich.	72,000	Montpelier, Ohio	72,000	Westby, Mont., B. S.	20,000
Ferriday, La.	70,000	Mount Carroll, Ill.	75,000	West Newton, Pa.	75,000
Festus, Mo.	70,000	Mount Pleasant, Tenn.	70,000	Williamstown, Ky.	75,000
Flemingston, N. J.	85,000	Naperville, Ill.	90,000	Wilton, Me.	81,000
Flushing, N. Y., Woodside Sta.	175,000	Nashville, Ill.	75,000	Winnetka, Ill.	153,000
Forest City, Ill.	75,000	New London, Wisc.	83,000	Woodsville, N. H.	80,000
Forest City, Me., B. S.	20,000	New Orleans, La., A. S.	300,000	Wrangell, Alaska	165,000
Foley, Ala.	70,000	Newport, Pa.	75,000	Wyomissing, Pa.	75,000
Fort Kent, Me.	72,000	New York, N. Y., Sta. "F"	850,000	Yellow Springs, Ohio	72,000
Fowler, Ind.	85,000	Nokomis, Ill.	70,000	Yreka, Cal.	146,000

NAVY DEPARTMENT

Bureau of Yards and Docks Carried in Appropriation Bill 75th Congress

Navy Yard, Boston, Massachusetts: Improvement of power plant, \$175,000; improvement of shipbuilding ways, \$250,000; replace shipway cranes, \$150,000; improvement of electric lines to water front, \$150,000; improvement of electric power circuits in shops, \$100,000; weight-handling and transportation equipment, \$67,000; extension of services to Pier Numbered 1, \$100,000; improvement of shop cranes, \$60,000.

Navy Yard, Charleston, South Carolina: Ex-

tension of services to water front, \$80,000; improvement of power plant, \$130,000; additional crane on north shipbuilding ways, \$50,000; portal crane for new quay wall, \$75,000; weight-handling and transportation equipment, \$54,000.

Navy Yard, Mare Island, California: Extension of services, paving and loading facilities, \$100,000; improvement of power plant, \$380,000; improvement of electric lines to water front, \$150,000; transportation equipment, \$65,000; improvement of electric power circuits in machine shop, \$75,000; drydock crane, \$150,000; floating crane, \$135,000.

Navy Yard, New York, N. Y.: Extension of drydock, numbered 4, \$400,000; improvement of

power plant for battleship construction, \$285,000; addition to structural shop and accessories, \$1,367,000; extension of electric lines to water front, \$150,000; hammer-head crane for heavy duty, \$1,200,000; extension of crane runways over shipbuilding ways, \$215,000; improvement and extension of distributing systems, \$200,000; improvement of shop lighting, \$150,000; weight-handling and transportation equipment, \$55,000.

Navy Yard, Norfolk, Virginia: Improvement of power plant, \$300,000; improvement of electric-distribution systems, \$150,000; extension of electric lines to water front, \$135,000; floating crane, \$100,000; extend boiler- and structural-shop building and accessories, \$500,000; weight-handling and transportation equipment, \$130,-

000; additional crane on Pier Numbered 3, \$175,000; improvement and extension of distributing systems, \$100,000; hammer-head crane for heavy duty, \$1,200,000; additional crane in structural shop, \$20,000; improvement of ventilation in foundry and structural shop, \$55,000; addition to foundry building and accessories, \$300,000.

Navy Yard, Philadelphia, Pennsylvania: Addition to machine-shop building and accessories, \$625,000; transportation and outside weight-handling equipment, \$200,000; improvement of electric distribution to water front, \$150,000.

Navy Yard, Portsmouth, New Hampshire: Improvement of shipbuilding ways, \$370,000; extension of services to shipbuilding ways and ship fitters' shop, \$50,000; addition to ship fitters' shop and accessories, \$492,000; alterations to ship fitters' shop, \$170,000; crane for handling weldments, \$25,000.

Navy Yard, Puget Sound, Wash.: Graving drydock service and auxiliary construction, \$4,500,000; improvement of power plant, \$450,000; improvement of shipbuilding dock, \$100,000; addition to foundry building and accessories, \$300,000; improvement of primary electric-distribution system, \$300,000; extension of electric lines to pier 6, \$150,000; weight-handling and transportation equipment, \$60,000.

Navy Yard, Washington, District of Columbia: Improvement of power plant, \$415,000; improve electric distribution in shops, \$100,000.

Naval Training Station, San Diego, California: Extension of sewers and drainage systems of the naval training station and Marine Corps base, \$180,000.

Naval Proving Ground, Dahlgren, Virginia: Purchase of land for safety zones, \$22,000; quarters for officers and accessories, \$100,000.

Naval Ammunition Depot, Hawthorne, Nevada: Ammunition-storage facilities, \$492,000.

Model testing plant: To complete the model testing plant authorized by the Act approved May 6, 1936 (49 Stat. 1263, 1264), exclusive of any buildings or facilities for testing other than surface and subsurface craft, \$500,000.

Public Works, Bureau of Yards and Docks: Toward the following public-works and public utilities projects at a cost not to exceed the amount stated for each project, respectively, \$3,500,000, which amount, together with unexpended balances of appropriations heretofore made under this head, shall be disbursed and accounted for in accordance with existing law and shall constitute one fund:

Navy Yard, Mare Island, California: Paint shop building and accessories, \$175,000; machine shop building and accessories, \$1,800,000;

Navy Yard, Philadelphia, Pennsylvania: Structural assembly shop building and accessories, \$630,000; pipe and copper shop building and accessories, \$750,000; pickling plant, building and accessories, \$120,000; and

Navy Yard, Washington, District of Columbia: Gun assembly shop building and accessories, \$1,400,000; ordnance storehouse and accessories, \$365,000.

Navy Yard, Boston, Massachusetts: Extension of structural shop, including accessories, service connections, and moving shop tools, \$731,500;

Navy Yard, Mare Island, California: Storehouse and accessories, \$800,000;

Fourteenth Naval District: Dredging of channels and improvement of harbors, \$1,500,000; mooring facilities and accessories, \$325,000; power-plant building and accessories, \$500,000; power-plant equipment and extension of distributing systems, \$2,250,000.

Naval Station, Balboa, Canal Zone: Quarters for officers at not to exceed \$10,000 per unit, \$40,000;

Naval Radio Station, Annapolis, Maryland: Shore protection, \$100,000;

Submarine Base, Coco Solo, Canal Zone: Quarters and accessories for chief petty officers, \$288,000; quarters and accessories for officers at not to exceed \$40,000 for each apartment house to accommodate four families, \$360,000;

Naval Ammunition Depot, Iona Island, New York: Extension of main wharf, \$60,000;

Naval Ammunition Depot, Fort Mifflin, Pennsylvania: Replacement of pier and fire-pump intake and dredging, \$115,000;

Naval Air Station, Norfolk, Virginia: Barracks and mess hall for enlisted men, \$500,000; roads, walks, and service lines, \$60,000;

Naval Air Station, Pensacola, Florida: Improvement of power plant, \$150,000;

Fleet Air Base, Coco Solo, Canal Zone: Quarters for chief petty officers, \$180,000; extension of hangar numbered 101, \$140,000.

Naval Air Station, Alameda, California: To continue the development authorized by the Act approved June 24, 1936 (49 Stat., pp. 1901, 1902), as amended, \$4,800,000;

Naval Medical Center at or in the vicinity of Washington, District of Columbia: Acquisition of land and construction of buildings, including

utilities, accessories, and appurtenances, as authorized by the Act approved August 16, 1937 (50 Stat. 663), \$4,850,000.

Allotments set up by Public Works Administration

CALIFORNIA

Navy Yard, Mare Island; Pattern storage facilities	\$100,000
Navy Yard, Mare Island; Improvement of power plant	375,000
Navy Yard, Mare Island; Foundry building	1,100,000
Navy Yard, Mare Island; Extend quay-wall, S/M Repair Base	400,000
Naval Radio Station, Mare Island; High frequency transmitting station	400,000
Naval Air Station, San Diego; Repairs to south field buildings	70,000
Naval Air Station, San Diego; Warming-up platforms and improvements	167,000
Naval Air Station, San Diego; Extension of distributing systems	58,000
11th Naval District; Fleet moorings, 1st increment	575,000
Naval Air Station, San Diego; Improve hangars and storehouses	22,000
Naval Air Station, San Diego; Improvements at East Beach, including bulkheads and ramps	95,000
Naval Air Station, San Diego; Central storehouse, West Beach	20,000
Naval Air Station, San Diego; Additions to assembly and machine shops	430,000
Naval Air Station, San Diego; General storehouse	200,000
Naval Air Station, San Diego; Aircraft storehouse	100,000
Naval Air Station, San Diego; Improvement of fresh water system	40,000
Marine Corps Base, San Diego; Barracks buildings	825,000
Marine Corps Base, San Diego; Extension of roads and services	35,000
Destroyer Base, San Diego; Electric lines to waterfront	25,000
Destroyer Base, San Diego; Re-commissioning pier	550,000
Destroyer Base, San Diego; Extend quaywall	500,000
Naval Supply Depot, San Diego; Addition to storehouse	350,000
Naval Fuel Depot, San Diego; Fuel oil storage	250,000
Fleet Air Base, San Pedro; Construct two hangars	90,000
Fleet Training Base, San Clemente Island; Construct dispensary, barracks, quarters and hangars	400,000
Navy Yard, Mare Island; Freight storage building	100,000
Navy Yard, Mare Island; Extension of quaywall, south of Independence Wharf	600,000
Naval Ammunition Depot, Mare Island; Rehabilitation of buildings	100,000
Destroyer Base, San Diego; Barracks and mess hall, including roads and services	450,000
Fleet Air Base, San Pedro; Barracks, bachelor officers' quarters, and dispensary	51,000
Naval Hospital, Mare Island; Additional ward	100,000
Navy Yard, Mare Island; Extension of Dike No. 12	250,000
Naval Prison, Mare Island; Mess hall	75,000
Navy Yard, Mare Island; Extend lumber storage	50,000
Naval Ammunition Depot, Mare Island; Additional magazine buildings	200,000
Naval Hospital, Mare Island; Dormitory building for corpsmen	150,000
Naval Hospital, Mare Island; Quarters building for nurses	150,000
Naval Ammunition Depot, Mare Island; Explosive "d" loading plant building	50,000
Fleet Training Base, San Clemente Island; Improvements of landing field including extension of roads and services	200,000
Fleet Training Base, San Clemente Island; Improvement of water supply	16,000
Fleet Air Base, San Pedro; Improvement of waterfront	100,000
Fleet Air Base, San Pedro; Improvement of distributing systems	25,000
Fleet Air Base, San Pedro; Three storehouses, gasoline storage structure, paint and oil storehouse	28,000

Fleet Air Base, San Pedro; Erection of shop buildings and incineration	16,000
Fleet Air Base, San Pedro; Hangar	30,000
Destroyer Base, San Diego; Fleet school building and barracks; roads, walks and services	275,000
Naval Supply Depot, San Diego; Construction of storage buildings	220,000

CONNECTICUT

Submarine Base, New London; Barracks building	600,000
Submarine Base, New London; Submarine training school building	125,000
Submarine Base, New London; Roads and services for barracks and school building	70,000

FLORIDA

Naval Air Station, Pensacola; Improvement of runways and landing mat; quarters for officers	150,000
Naval Air Station, Pensacola; Replacement of Marine barracks buildings	150,000
Naval Air Station, Pensacola; Dispensary building	80,000
Naval Air Station, Pensacola; Construct three hangars	150,000
Naval Air Station, Pensacola; Replacement and reconstruction of hospital buildings	500,000
Naval Air Station, Pensacola; Quarters for aviation cadets (600)	550,000

ILLINOIS

Naval Training Station, Great Lakes; Storehouse for transportation and fire equipment and laundry	150,000
Naval Hospital, Great Lakes; Extension of subsistence building to replace a separate building	50,000
Naval Training Station, Great Lakes; Improvement to power plant	50,000

MARYLAND

Naval Academy, Annapolis; Dispensary building	90,000
Naval Academy, Annapolis; Quarters for officers	1,300,000
Naval Academy, Annapolis; Extension of roads and services	250,000
Naval Academy, Annapolis; Central heating plant	200,000
Naval Academy, Annapolis; Storage sheds	20,000
Naval Academy, Annapolis; Replace hospital facilities	490,000
Naval Academy, Annapolis; Dormitory for hospital corps men	110,000
Naval Academy, Annapolis; Enlarge chapel	375,000
Naval Radio Station, Annapolis; Quarters for operators	30,000
Naval Academy, Annapolis; Laundry building	300,000
Naval Academy, Annapolis; Alterations to messhall	260,000

MASSACHUSETTS

Navy Yard, Boston; Improvement of power plant	110,000
Navy Yard, Boston; Improve electric circuits in shops	75,000
Navy Yard, Boston; Improvement of piping systems	20,000
Navy Yard, Boston; Steel storage	80,000
Navy Yard, Boston; Messhall and galley for ships' crews	10,000
Navy Yard, Boston; Extension of paint and oil storehouse	100,000
Naval Ammunition Depot, Hingham; Rehabilitation of buildings	45,000
Navy Yard, Boston; Addition to pipe shop	150,000
Naval Hospital, Chelsea; Extend building No. 56	45,000

NEW HAMPSHIRE

Navy Yard, Portsmouth; Improvement of foundry buildings	40,000
Navy Yard, Portsmouth; Extension of elec. mfg. building	90,000
Navy Yard, Portsmouth; Improvement of power plant	100,000
Navy Yard, Portsmouth; Extension of machine shop	80,000
Navy Yard, Portsmouth; Transportation equipment storage facilities	25,000
Navy Yard, Portsmouth; Steel storage facilities	40,000
Navy Yard, Portsmouth; Addition to storehouse	360,000

NEW JERSEY	
Naval Ammunition Depot, Lake Denmark; Rehabilitation of buildings..	100,000
NEW YORK	
Naval Ammunition Depot, Iona Island; Rehabilitation of buildings	100,000
Navy Yard, New York; Turret assembly facilities	250,000
Navy Yard, New York; Improve outside electric distribution system ..	35,000
Navy Yard, New York; Improve ship-building ways No. 2	200,000
Navy Yard, New York; Improve ship-building ways No. 2	400,000
PENNSYLVANIA	
Philadelphia; Rehabilitation of naval home	125,000
Navy Yard, Philadelphia; Paint and oil storehouse	100,000
Navy Yard, Philadelphia; Storehouse, reserve basin	225,000
Navy Yard, Philadelphia; Heavy materials, storehouse	450,000
Navy Yard, Philadelphia; Turret shop building	1,000,000
Navy Yard, Philadelphia; Extend structural assembly shop	560,000
RHODE ISLAND	
Naval Torpedo Station, Newport; Replacement of barracks for enlisted personnel	35,000
Naval Torpedo Station, Newport; Extension of storehouse	100,000
Naval Hospital, Newport; Additional wing	165,000
Naval Torpedo Station, Newport; Improvement of power plant	300,000
SOUTH CAROLINA	
Navy Yard, Charleston; Storehouse for transportation equipment	30,000
Navy Yard, Charleston; Extension of administration building	75,000
Navy Yard, Charleston; Electric Shop	60,000
Navy Yard, Charleston; Sheet metal shop	110,000
Navy Yard, Charleston; Water storage	60,000
Navy Yard, Charleston; Railroad track on Pier 314	30,000
Navy Yard, Charleston; Extension of distribution systems	150,000
Marine Barracks, Parris Island; Barracks buildings	1,000,000
Navy Yard, Charleston; New ship-building ways	450,000
Navy Yard, Charleston; Extension of structural shop including equipment ..	325,000
Navy Yard, Charleston; Extension of machine shop	275,000
Navy Yard, Charleston; General storehouse	200,000
Navy Yard, Charleston; Improvement of power plant	150,000
WASHINGTON	
Naval Air Station, Seattle; Two land-plane hangars	300,000
Puget Sound, Navy Yard; Extension of Building No. 91 for director storage	50,000
Naval Hospital, Puget Sound; Additional wing	90,000
Naval Hospital, Puget Sound; Addition to nurses' quarters	15,000
Navy Yard, Puget Sound; Extend ordnance storehouse	80,000
Navy Yard, Puget Sound; Covered steel storage	175,000
Naval Ammunition Depot, Puget Sound; Additional magazine buildings	70,000
Naval Air Station, Seattle; Warming-up platforms	75,000
Naval Air Station, Seattle; Extension of distributing systems	65,000
Naval Air Station, Seattle; Quarters for officers	23,000
Navy Yard, Puget Sound; Improvement of chemical laboratory	25,000
Naval Ammunition Depot, Puget Sound; Replace storage buildings 9 and 11	45,000
Naval Air Station, Seattle; Addition to storehouse	60,000
Navy Yard, Puget Sound; Heavy materials storage building	125,000
Naval Air Station, Seattle; Grading landing field	200,000
Navy Yard, Puget Sound; Smith shop ..	350,000
Navy Yard, Puget Sound; Additions to pipe shop	90,000

VIRGINIA	
Naval Air Station, Norfolk; Extension of barracks and messhall buildings	200,000
Naval Training Station, Norfolk; Replacement of barracks buildings ..	600,000
Naval Air Station, Norfolk; Gasoline Storage	45,000
Naval Ammunition Depot, St. Juliens Creek; Rehabilitation of buildings ..	150,000
Naval Air Station, Norfolk; Remodel buildings 4 and 7 for bachelor officers quarters	60,000
Marine Barracks, Quantico; Water storage reservoir; and officers' school building and barracks	460,000
Naval Training Station, Norfolk; Trade school building and barracks ..	300,000
Marine Corps Flying Field, Quantico; Roads, walks and services	110,000
Marine Barracks, Quantico; Dispensary building including services ..	535,000
Marine Barracks, Quantico; General storehouse	250,000
Marine Corps Flying Field, Quantico; Barracks building	350,000
Fuel Annex, Supply Depot, Norfolk; Rehabilitation of station	150,000
Naval Air Station, Norfolk; Bulkhead and fill lagoon	60,000
Naval Supply Depot, Norfolk; Rebuild storehouses	150,000
Naval Training Station, Norfolk; Messhall and galley building	400,000
Naval Training Station, Norfolk; Roads and services for messhall ..	25,000
Navy Yard, Norfolk; Pier No. 5	1,750,000
Navy Yard, Norfolk; Extend power plant	85,000
Navy Yard, Norfolk; Extend crane structure over building ways and provide cranes	525,000
Navy Yard, Norfolk; Complete building ways	40,000
Naval Air Station, Norfolk; Improve and extend overhaul shops	550,000
Marine Barracks, Quantico; Quarters for noncommissioned officers	891,000
Marine Barracks, Quantico; Services for noncommissioned officers quarters ..	281,000

VETERANS ADMINISTRATION	
Waco, Texas, 1 C. T. Building	185 beds
Bedford, Mass., 2 C. T. Buildings	368 beds
Lyons, N. Y., 1 C. T. Building	358 beds
Knoxville, Iowa, 2 C. T. Buildings	368 beds
Indianapolis, Ind., 1 Gen. Med. Bldg. 170 beds ..	
Huntington, W. Va., 1 Gen. Med. Bldg. 106 beds ..	
Chillicothe, O., 1 C. T. Building	358 beds
Murfreesboro, Tenn., 2 C. T. Bldgs.	398 beds
Wichita, Kan., 1 Gen. Med. Building	76 beds
Camp Custer, Mich., 1 C. T., 1 Acute Bldg.	524 beds
North Chicago, Ill., 2 C. T. Bldgs.	370 beds
Lincoln, Nebr., Addition	48 beds
Bath, N. Y., 1 Barrack Building	395 beds
Pittsburgh, Pa., Addition	262 beds
Los Angeles, Calif., 2 C. T. Bldgs.	392 beds
Palo Alto, Calif., 1 Inf. Building	137 beds
Fargo, N. Dak., Addition	76 beds
White River Junction, Vt., 1 Gen. Med. Building ..	78 beds
Tuscaloosa, Ala., 1 C. T. Building	189 beds

WAR DEPARTMENT QUARTERMASTER GENERAL'S OFFICE CONSTRUCTION PROGRAM	
Aberdeen Proving Ground, Md. Barracks	\$339,500
Noncommissioned Officers' Quarters (16)	157,440
School	350,000
	846,940
Fort Ethan Allen, Vt. Quarters, 30 N. C. O.	257,500
Motorization Housing	165,700
	423,200
Fort Barrancas, Fla. Barracks, 250 men	276,000
Fort Belvoir, Va. Garage and Shops	347,100
Barracks, 375 men	532,500
Quarters, 18 N. C. O.	173,800
Quarters, 1 F. O., 16 C. O., 8 B. O. ..	334,400
	1,387,800
Fort Benning, Ga. Barracks, 100 men	165,900
Fire Station	25,400
School for Bakers and Cooks (76) ..	157,200
Barracks, 750 men	740,000
Warehouses	121,900
	1,210,400

Fort Bliss, Texas Barracks, 250 men	275,000
Quarters, 20 N. C. O.	171,000
Radio Station, Biggs Field	17,000
Stables, Stable Guard, Shops	473,400
Quarters, 20 B. O.	128,800
	1,065,200
Fort Brady, Michigan Barracks, 250 men	300,000
Fort Bragg, N. C. Barracks, 375 men	413,500
Quarters, 29 N. C. O.	262,450
Quarters, Officers' (16)	245,200
Quarters, Bachelor Officers' and Mess	135,000
Telephone Exchange Building	46,600
	1,102,750
Carlisle Barracks, Pa. Quarters, 28 N. C. O.	239,500
Quarters, Officers' (20 F. O.)	349,500
Barracks, 125 men	137,500
Fire and Guard House	66,300
	792,800
Chanute Field, Ill. School, Technical	621,000
Hangars (2), School	708,000
Barracks, 950 men	1,045,000
Hospital, 60 beds, 40 Det.	300,000
Warehouse, QM	72,500
Maintenance, QM	47,400
Quarters, 20 N. C. O.	200,000
Quarters, 10 C. O.	150,000
Telephone Construction	40,000
Railroad Extension	11,000
Sewage System	61,500
Warehouse, A. C.	129,400
	3,385,800
Fort Clark, Texas Sewage Disposal	35,000
Garage and Shop	47,300
	82,300
Fort Crockett, Texas Barracks, 440 men	541,200
Barracks, Medical Det., 25 men ..	54,000
Quarters, 18 N. C. O.	177,120
	772,320
Fort Crook, Nebr. Barracks, 125 men	137,500
Delaware Ordnance Depot, N. J. Magazines and Rail Facilities (W. P. A.)	504,000
Barracks and Dispensary	154,400
Quarters, 6 N. C. O.	63,700
Quarters, 1 F. O., 2 C. O.	47,400
	769,500
Fort Devons, Mass. Barracks, 500 men	527,000
Quarters, 1 F. O., 10 C. O.	167,400
Quarters, 5 N. C. O.	49,200
Water Towers, 2—200,000 Gal. ..	48,300
Quarters, 1 F. O., 12 B. O.	107,400
Quarters, 5 N. C. O.	42,500
Telephone Construction	6,000
Telephone, Telegraph, Radio Station ..	45,000
Quarters, 14 N. C. O.	137,760
Garage	48,300
	1,178,860
Camp Dix, N. J. Electric Power Substation	25,000
Barracks, 375 men	461,700
Quarters, 2 F. O.—6 C. O.	124,800
Quarters, 13 N. C. O.	138,123
Fire Station and Guard House	60,100
Bakery	29,000
Warehouses, Q. M.	78,600
Utility Shops, Q. M.	48,000
Garage and Motor Repair Shop ..	42,675
Gas and Oil Storage, Q. M.	10,000
Headquarters and Admin. Building ..	82,000
	1,100,000
Camp Douglas, Utah Barracks Medical Det.	42,000
Barracks 250 men	300,000
	342,000
Fort DuPont, Del. Barracks, 375 men	413,500
Fitzsimmons General Hospital, Colo. Hospital, 400 beds	3,750,000
Fort Hancock, N. J. Quarters, 8 N. C. O.	85,000
Quarters, 6 C. O.	90,000
	175,000
Fort Benj. Harrison, Ind. Barracks, 500 men	600,000
Barracks, Add'n. to—Q. M.	43,700

Quarters, 4 N. C. O.	39,360	Fort Missoula, Mont.		Sales Commissary and Warehouse	77,500
Quarters, Nurses' (10)	53,400	Barracks, Ext. 4	162,800	Quarters, 34 N. C. O.	334,560
	736,460	Fire Station and Guard House ..	66,200	Quarters, Officers' (10 F. O.,	474,000
Holabird Q. M. Depot, Md.			229,000	20 C. O.)	1,650,340
Barracks, 600 men	638,250	Fort Monmouth, N. J.		Randolph Field, Texas	
Quarters, 1 F. C., 5 C. O.	92,400	Barracks	137,500	Cadet Barracks	350,000
Quarters, 24 N. C. O.	236,160	Fort Monroe, Va.		Raritan Arsenal, N. J.	
	966,810	Barracks, 100 men	110,000	Barracks, 100 men	158,100
Fort Sam Houston, Texas		Barracks, Add'n. to No. 5	225,000	Fort Reno, Okla.	
Barracks, 500 men	554,000	Hospital Modernization	422,000	Barracks, 125 men	175,000
Barracks, 500 men	550,000		757,000	Fort Riley, Kansas	
	1,104,000	Fort Moultrie, S. C.		Academic Building and Auditorium	405,000
Fort Huachuca, Arizona		Warehouse, QM	40,300	Quarters, 28 N. C. O.	275,520
Barracks, 250 men	275,500	Fort Myer, Va.			680,520
Motorization Housing, 55 vehicles	57,500	Hospital Addition	9,000	Fort D. A. Russell	
Quarters, 2 Warrant Officers' ..	19,680	Barracks, Add'n. to No. 104	55,000	Motor Shop, Truck and Gun Sheds	77,818
Gas and Oil Storage	5,891	Barracks, Add'n. to 4 Bks.	220,500	Savanna Ord. Depot, Ill.	
Water Supply Addition	161,000		284,500	Magazines and Accessories	1,023,413
	519,571	Fort Logan, Colo.		Schenectady General Depot	
Fort Jay, N. Y.		Quarters, 17 N. C. O.	167,280	Quarters, 1 F. O.—2 C. O.	47,400
Barracks, 375 men inc. Med. Det. ...	443,800	Garage and Repair Shop (Oil	21,950	Quarters, 2 N. C. O.	21,250
Quarters, 66 N. C. O.	691,900	Storage)	189,230		68,650
	1,135,700	McChord Field, Washington		Fort Sheridan, Ill.	
Jefferson Barracks, Mo.		Quarters, 20 N. C. O.	200,000	Barracks, 300 men	499,500
Barracks, Det., 75 men	82,500	Quarters, 10 C. O.	150,000	Quarters, 16 N. C. O.	157,400
Mess and Kitchen Addition	60,000	Warehouse, A. C.	129,400	Quarters, 16 N. C. O.	157,440
Quarters, Nurses' (12)	63,000	Barracks, 685 men	753,500		814,340
Quarters, 5 N. C. O.	49,200	Barracks, 600 men	660,000	Fort Sill, Okla.	
Quarters, 7 C. O.	105,000	Hangars (2)	1,000,000	Barracks, Add. to 16th Art.	33,700
	359,700	Warehouses	72,500	Barracks, 200 men, Q. M.	252,000
Kelly Field, Texas		Maintenance Building	47,400	Barracks, 500 men, 77th F. A.	586,400
Officers' Quarters	120,000	Heating Plant	364,450	Barracks, 300 men, 1st F. A.	366,600
N. C. O. Quarters	150,000	Telephone Construction	60,000	Quarters, 35 N. C. O.	371,875
	270,000	Radio Station	50,000	Quarters, Nurses'	31,000
Fort Knox, Ky.		Camera Obscura	3,600	Barrack Add'n. to No. 269	256,000
Barracks and Admin. Bldg., 1200		Utilities (Post)	150,000	Barrack Ext. to Med. Det.	61,000
men	1,560,600	Dispensary	90,000		1,958,575
Quarters, 9 F. O.—46 C. O.	846,600		3,688,850	Fort Slocum, N. Y.	
Quarters, 50 N. C. O.	492,000	Fort McPherson, Ga.		Barracks, 375 men	521,600
Motor Park, 1st Cav.	193,500	Radio Station	23,000	Quarters, 6 N. C. O.	64,750
Quarters, Nurses' (10)	63,200	Dental Clinic and Contagious Ward	85,000		586,350
Children's School	184,000		108,000	Fort Snelling, Minn.	
Ordnance Shop Addition	5,000	New Cumberland General Depot, Pa.		Barracks, 75 Med. Det.	113,750
	3,344,900	Quarters, 4 N. C. O.	39,360	Telephone Exchange and Bks.	
Fort Lewis, Washington		Quarters, 1 C. O.	15,000	(19 men)	31,590
Barracks, 1250 men	1,400,000		54,360		145,540
Quarters, 36 N. C. O.	354,240	Fort Niagara, N. Y.		Fort Thomas, Ky.	
Quarters, 30 C. O.	450,000	Barracks, 250 men	324,000	Barracks, 375 men	415,000
Warehouse	40,000	Ogden Ordnance Depot, Utah		Vancouver Barracks, Washington	
Garage and Motor Shop	60,000	Magazines and Appurtenances	1,229,360	Quarters, 18 N. C. O.	147,680
Utilities	100,000	Plattsburg Barracks, N. Y.		Fort Francis E. Warren, Wyoming	
Quarters, 32 N. C. O.	314,880	Shops, Utility, QM	40,000	Barracks, Med. Det., 125 men	137,500
	2,719,120	Hospital Modernization	198,000	Gymnasium	140,000
Madison Barracks, N. Y.		Quarters, 14 C. O.	210,000		277,500
Barracks, 125 men	137,500	Quarters, 12 N. C. O.	102,000	Fort Bayne, Michigan	
Quarters, 16 N. C. O.	137,000		550,000	Quarters, 8 N. C. O.	68,000
	274,500	Presidio of San Francisco, Calif.		West Point, N. Y.	
March Field, Calif.		Barracks, 250 men, C. A.	275,000	Fire Station	42,000
Barracks, 330 men	330,000	Barracks, 250 men, Q. M.	275,000	Garage and Motor Shed	43,000
Fort Geo. G. Meade, Md.		Telephone Construction	5,000	Quarters, Officers' (10 C. O.)	130,000
Barracks, 375 men	483,000	Quarters, 4 N. C. O.	38,870		235,000
Barracks for Bakers and Cooks ...	480,000	Barracks and School, Cooks	170,410		
	963,000				

LIST OF NON FEDERAL PROJECTS APPROVED BY PUBLIC WORKS ADMINISTRATION

The PWA makes a grant in each case, not to exceed 45% of the cost, the city, state or other authority assuming responsibility for the remainder.

ALABAMA			
Anniston, Ala., Waterworks	\$81,913	Decatur, Ala., Jail and Court House	118,182
Anniston, Ala. School	31,288	Dothan, Ala., Street Imprvts.	307,000
Alexander City, Ala., Mun. Bldg. ...	95,000	Elmore Co., Ala., Schools	156,000
Bullock Co., Ala., Schools	55,000	Frisco City, Ala., Sewerage	28,400
Baldwin Co., Ala., School	115,000	Florence, Ala., Dormitory	65,454
Bay Minette, Ala., Co. Buildings	27,000	Florence, Ala., College Bldg.	100,000
Birmingham, Ala., Streets	1,523,104	Gadsden, Ala., Courthouse and Jail ..	500,000
Cullman Co., Ala., Schools	307,400	Gadsden, Ala., Bridge	163,636
Center Hill, Ala., Schools	98,000	Gorda, Ala., Sewerage System	27,272
Cherokee Co., Ala., School	106,270	Grove Hill, Ala., Sewerage System ..	23,636
Cullman, Ala., Sewage System	49,090	Jacksonville, A. a., Dormitory Add. ..	56,364
Clanton, Ala. Paving	61,818	Jackson Co., Ala., School	400,000
Centre, Ala., Sewer Sys.	30,485	Jasper, Ala., School	52,500
Center, Ala. Waterworks	41,818	Jacksonville, Ala., Phys. Educ. Bldg.	110,909
Dothan, Ala., Waterworks	75,454	Livingston, Ala., Sewage	30,909
		Linden, Ala., Sewer	34,545
		Mobile, Ala., Port Imps.	760,000
		Montgomery, Ala., Disposal Plant ..	220,000
		Midway, Ala., Waterworks	30,909
		Monroe Co., Ala., Schools	105,000
		Marion, Ala., County Jail	50,000
		Marion County, Ala., Schools	225,000
		Mobile, Ala., Dock	300,000
		Opelika, Ala., School	21,347
		Perry Co., Ala., Schools	125,000
		Prattville, Ala., School	81,000
		Pike Co., Ala., Schools	32,500
		Prattville, Ala., Sewerage and Street	
		Impr.	60,000
		Rogersville, Ala., Waterworks	27,272
		Scottsboro, Ala., Power	130,909
		St. Clair Co., Ala., Jails	60,000
		Selma, Ala., Waterworks	40,580
		Selma, Ala., School	322,500

Sylacauga, Ala., Waterworks	65,500
Sumter Co., Ala., Schools	14,000
Tuscaloosa, Ala., State Bldgs.	265,000
Tuscaloosa, Ala., Schools & Sch. Add.	80,909
Tuscaloosa, Ala., Hospital	720,000
Tuscaloosa, Ala., Auditorium	320,890
Troy, Ala., College Bldg.	41,240
Tuscaloosa, Ala., Library Bldg. and Add. Heating Plant	175,454
Wilsonville, Ala., Waterworks Sys. ...	626,337
York, Ala., City Hall and Jail and Street Impr. and Ext. Sewer Sys. ...	20,000
	40,000

ARIZONA

Alhambra, Ariz., Aud.-Gymn.	\$23,321
Benson, Ariz., Gas Trans.	35,000
Coolidge, Ariz., School	21,000
Chandler, Ariz., School	60,000
Douglas, Ariz., Street Improvements	33,751
Douglas, Ariz., Street Impr.	62,300
Douglas, Ariz., Street Impr.	35,000
Flagstaff, Ariz., Street Impr.	188,495
Greenlee Co., Ariz., Irr. Sys.	80,000
Glendale, Ariz., Aud.-Stadium	89,091
Holbrook, Ariz., Sch. Bldg.	14,760
Maricopa County, Ariz., Irrigation ...	600,000
Mesa, Ariz., Water and Sewer Sys. ...	89,091
Parker, Ariz., School	54,000
Phoenix, Ariz., Street Impr.	73,412
Phoenix, Ariz., Street Impr.	120,138
Phoenix, Ariz., College	613,636
Phoenix, Ariz., School	814,545
Phoenix, Ariz., Street Impr.	109,000
Phoenix, Ariz., Street Impr.	69,760
Phoenix, Ariz., Street Impr.	63,992
Phoenix, Ariz., Street Impr.	110,570
Phoenix, Ariz., Street Impr.	197,456
Phoenix, Ariz., Street Impr.	222,320
Phoenix, Ariz., Street Impr.	96,586
Phoenix, Ariz., School	49,000
Phoenix, Ariz., Streets	17,786
Scottsdale, Ariz., School Impr.	20,206
Snowflake, Ariz., Heating Plant in High Sch. Bldg.	6,435
Tombstone, Ariz., Gas Trans.	26,000
Tucson, Ariz., Water System	503,636
Tucson, Ariz., St. Impr.	205,514
Tucson, Ariz., St. Impr.	151,853
Tucson, Ariz., Street Impr.	87,469
Tucson, Ariz., Street Impr.	169,090
Tucson, Ariz., Street Impr.	139,601
Tucson, Ariz., School Stadium	36,363
Tucson, Ariz., Schools	350,000
Tucson, Ariz., Pavement	138,368
Tucson, Ariz., St. Impr.	161,258
Tucson, Ariz., St. Impr.	133,532
Tucson, Ariz., Library Impr.	75,000
Tucson, Ariz., School	300,000
Williams, Ariz., School	7,000
Wickenburg, Ariz., Waterworks	36,400
Yuma, Ariz., School Altn.	2,300

ARKANSAS

Arkadelphia, Ark., College Bldg.	\$125,454
Camden, Ark., Mun. Bldg.	100,540
Conway, Ark., Recreational	76,363
Clarendon, Ark., Jail	30,909
De Witt, Ark., Street Impr.	55,000
Eudora, Ark., Street Impr.	46,220
Forrest City, Ark., Library Bldg. ...	30,909
Forrest City, Ark., City Hall	25,454
Hughes, Ark., Sewer System	29,090
Harrisburg, Ark., Sewers	32,727
Jonesboro, Ark., Univ. Bldgs.	200,000
Little Rock, Ark., Office Bldg.	100,000
Logan & Sebastian Counties, Ark., Hospital Bldgs.	2,106,826
Mena, Ark., Courthouse	110,910
Marion, Ark., School	77,865
Newport, Ark., Courthouse	100,000
N. Little Rock, Ark., Sewerage Impr. ...	269,091
Pine Bluff, Ark., School	203,636
Paris, Ark., Waterworks	200,000
Russellville, Ark., Disposal Plant ...	32,727
Sheridan, Ark., Courthouse Add.	11,818
Tillar, Ark., Waterworks	9,000
Tillar, Ark., School	19,000
Texarkana, Ark., Schools	94,545
Trumann, Ark., Street Impr.	29,020

CALIFORNIA

Albany, Calif., School Add.	\$63,000
Anderson, Calif., Fair Bldg.	20,000
Alpine, Calif., Infirmary Bldg.	146,000
Alturus, Calif., School Add.	169,090
Alisal, Calif., School	87,272
Auburn, Calif., School	100,000
Alameda, Calif., School	73,000
Alameda, Calif., School	45,454
Alameda Co., Calif., School Bldg. ...	76,364
Alameda, Calif., Elec. Railway Tunnel	2,500,000
Alameda Co., Calif., Sch. Bldg.	203,000
Auburn, Calif., School	100,000

Arcade, Calif., School	21,670
Anderson, Calif., Fair Bldg.	20,000
Alhambra, Calif., School	134,398
Arcadia, Calif., Schools	244,428
Brawley, Calif., Filtration Plant Add.	24,497
Buena Park, Calif., Sewer Sys. Impr.	49,800
Bayshore City, Calif., School Bldgs. ...	24,000
Berkeley, Calif., School	109,307
Beverly Hills, Calif., Imp. Sch. Ground	75,000
Berkeley, Calif., Fire House	27,731
Burlingame, Calif., Police Station and Jail	20,460
Beaumont, Calif., Munic. Bldg.	145,454
Barstow, Calif., Schools	278,000
Benicia, Calif., School	70,568
Brisbane, Calif., School	35,844
Beverly Hills, Calif., Fire Alarm Sys.	100,000
Bakersfield, Calif., Schools	110,000
Berkeley, Calif., Police Bldg.	357,166
Brentwood, Calif., School Impr.	100,000
Calaveras Co., Calif., Waterworks Add.	173,000
Calif., State of, Streets and Hwys. ...	975,380
Calistoga, Calif., School	45,450
Carmichael, Calif., School	31,607
Cloverdale, Calif., Aud. and Gym. ...	35,000
Coachella, Calif., School	109,000
Centerville, Calif., School	43,768
Coalinga, Calif., School	206,058
Coalinga, Calif., Schools	66,813
Corcoran, Calif., Schools	210,900
Corcoran, Calif., School	76,363
Colusa, Calif., Hospital Bldg.	15,472
Colusa, Calif., Bridge	25,220
Colusa, Calif., School	59,403
Concord, Calif., Fire House	25,454
Colton, Calif., School	69,191
Corning, Calif., Munic. Bldg.	16,350
Corona, Calif., Park Bldg.	2,013
Crockett, Calif., Schools Impr.	16,115
Crestline, Calif., School	67,300
Courtland, Calif., Bridge	60,800
Covina, Calif., Sewer Sys. Imp.	109,090
Covina, Calif., Sewer Sys. Imp.	109,090
Cottonwood, Calif., School	70,909
Delano, Calif., Sewage	58,182
Daly City, Calif., Municipal Bldg.	61,800
Danville, Calif., School	40,800
Delano, Calif., School Bldg.	178,362
Delano, Calif., School Bldg.	51,200
Decoto, Calif., School Altern.	13,195
Eureka, Calif., Detention Home	40,000
El Monte, Calif., School	80,000
Exeter, Calif., School	155,000
East Nicolaus, Calif., School Gym. ...	27,350
El Cerrito, Calif., School	186,935
Exeter, Calif., School	155,000
El Centro, Calif., Sch. Bldg.	6,850
Fresno, Calif., Co. Building	26,295
Fresno, Calif., Grand Stand	111,409
Fresno, Calif., Hospital Bldg.	130,261
Fresno, Calif., Hospital Bldg.	27,096
Fullerton, Calif., School	32,171
Fresno, Calif., Co. Buildings	40,000
Fortuna, Calif., Schools	183,358
Fresno, Calif., Fire Alarm Station	97,900
Fresno, Calif., Waterworks	9,900
Fresno, Calif., School	85,000
Fresno, Calif., Fire Engine Hse.	18,000
Fresno, Calif., Shower and Locker Room	227,500
Fair Oaks, Calif., School Addition ...	227,500
Fair Oaks, Calif., School Addition ...	246,656
Glendale, Calif., School	33,189
Glendale, Calif., Streets	232,273
Grass Valley, Calif., School	28,400
Guasti, Calif., School	65,000
Gustine, Calif., School	3,995
Geyserville, Calif., School Addn.	42,360
Goleta, Calif., Hospital	69,090
Garberville, Calif., School	598,626
Glendale, Calif., School	126,985
Glendale, Calif., Schools	232,273
Grass Valley, Calif., School	75,973
Glendale, Calif., Warehouse	27,000
Gonzales, Calif., School	41,869
Glendale, Calif., School	249,500
Gonzales, Calif., School	27,000
Hermosa Beach, Calif., Schools	178,720
Half Moon Bay, Calif., School	150,000
Holtville, Calif., School	12,000
Hayward, Calif., School	98,437
Hollister, Calif., School	21,800
Hopland, Calif., School	46,638
Hanford, Calif., Fire Station	38,635
Hueneme, Calif., Harbor Impr.	1,740,000
Junction City, Calif., School	13,635
King City, Calif., Munic. Bldg.	44,200
Lancaster, Calif., School	58,547
Los Angeles, Calif., Schools	1,220,000
Los Angeles, Calif., School	135,000
Los Angeles, Calif., Street Impr.	3,799,302
Long Beach, Calif., Bridge	32,058
Lompoc, Calif., School	12,198
La Mesa, Calif., School	65,400
Long Beach, Calif., Municipal Bldg. ...	140,000
Lakeport, Calif., Sewer Sys. Impr. ...	47,210

Los Angeles, Calif., Street Impr.	264,600
Laton, Calif., School	23,731
Lindsay, Calif., Schools	100,000
Lebec, Calif., School Bldg.	66,164
Los Angeles, Calif., Fire Eng. Bldg. ...	1,999,000
Los Angeles, Calif., Sewage Pump. Pl.	37,936
Los Angeles, Calif., Recreation Pier	71,500
Los Angeles, Calif., Drainage System	236,102
Los Angeles, Calif., Drainage	103,700
Los Angeles, Calif., Library	327,240
Los Angeles, Calif., Drainage	30,200
Los Angeles, Calif., Streets	2,515,343
Los Angeles, Calif., Streets	2,407,657
Los Angeles Co., Calif., Shop and Garage	45,000
Long Beach, Calif., Transit Shed	384,228
Lakeport, Calif., School	16,000
Mullen, Nebr., School	33,000
Martinez, Calif., Waterworks	46,540
Mt. Shasta, Calif., Sewer Sys. Impr.	39,870
Martinez, Calif., School	47,570
McArthur, Calif., School	90,000
Marysville, Calif., County Bldg. Add.	27,500
Marysville, Calif., School	27,272
Mojave, Calif., School	60,000
Mill Valley, Calif., School	100,000
Monterey Co., Calif., School Bldg. Alt. Adds.	20,800
Monrovia, Calif., School	63,000
Marysville, Calif., School Alter.	3,900
Millbrae, Calif., School	236,362
Modesto, Calif., Hospital	87,273
Merced Co., Calif., School	32,000
Mountain View, Calif., School	62,940
Modesto, Calif., Hall of Records Bldg.	136,300
Maxwell, Calif., School	15,000
Modesto, Calif., Irrigation System ...	380,000
McFarland, Calif., Sch. Bldg.	23,400
Mill Valley, Calif., School Impr.	40,000
Moorpark, Calif., School Add.	67,273
Moorpark, Calif., School	70,575
Niland, Calif., School	9,325
Napa County, Calif., Roads	70,000
No. Sacramento, Calif., School	250,000
Napa, Calif., Waterworks	24,990
Niles, Calif., School	174,121
Newport Beach, Calif., School	129,000
Orange Co., Calif., Sch. Bldg. Adds.	100,904
Oildale, Calif., School	160,000
Oakdale, Calif., School	281,780
Orange Co., Calif., Storm Drain	92,048
Orinda, Calif., School Impr.	59,983
Orange Co., Calif., School Add.	60,000
Oakland, Calif., School Add.	616,400
Oroville, Calif., School	43,240
Oakdale, Calif., School	281,780
Oakley, Calif., School	92,076
Orange Co., Calif., Drainage	20,702
Oakland, Calif., Clubhouse	18,517
Oakland, Calif., Bridge	732,000
Oakland, Calif., Schools	304,000
Oakland, Calif., Sewer and St. Impr.	349,100
Placerville, Calif., Courthouse	100,000
Placer Co., Calif., School	37,980
Pasadena, Calif., Add. to Reservoir ...	90,400
Placerville, Calif., Waterworks	18,059
Petaluma, Calif., School	15,000
Puente, Calif., School Impr.	69,637
Petaluma, Calif., Recreational Park. ...	15,220
Pomona, Calif., Audit	73,500
Pittsburg, Calif., Waterworks	137,458
Porterville, Calif., Municipal Bldg. ...	129,090
Petaluma, Calif., School	15,000
Placerville, Calif., School	172,848
Petaluma, Calif., Sch. Cafeteria Bldg.	40,000
Pasadena, Calif., Add. and Alt. Sch. Bldgs.	452,000
Redwood City, Calif., School	157,474
Redding, Calif., County Bldg.	70,909
Redwood City, Calif., Municipal Bldg.	93,906
Redwood City, Calif., Harbor Impr. ...	87,828
Redwood City, Calif., Library	80,635
Rosemead, Calif., School	54,500
Redlands, Calif., School	32,800
Redding, Calif., County Bldg.	98,837
Ramona, Calif., Sch. Add. and Impr.	9,500
Redding, Calif., Fire Stations	85,821
Riverside Co., Calif., Sewer System ...	50,909
San Mateo Co., Calif., Co. Office Bld.	240,000
San Mateo, Calif., Fire House, Drill Tower and St. Impr.	27,600
San Lucas, Calif., School	81,818
Sonoma, Calif., Municipal Bldg.	34,953
Santa Monica, Calif., Street Impr. ...	443,083
Sacramento, Calif., Mun. Bldg.	71,618
San Leandro, Calif., Municipal Bldg.	131,135
Santa Barbara, Calif., School Addn. ...	104,000
Soledad, Calif., School Addn.	21,800
Sacramento Co., Calif., Hwv. Impr. ...	54,000
Sacramento, Calif., Traffic Lights ...	26,600
Sacramento, Calif., Mun. Bldg. Add.	51,838
San Rafael, Calif., School	208,000
Santa Barbara, Calif., Munic. Bldg.	100,000
Sacramento, Calif., Auditorium	290,273
Sacramento, Calif., School Bldg.	76,860
San Diego, Calif., School	370,000
San Diego, Calif., Munic. Bldg.	370,000
San Marino, Calif., School	67,300

San Juan Capistrano, Calif., School ..	290,000	Hesperus, Colo., College Bldgs.	18,000	Athens, Ga., Dormitory	114,000
Sacramento, Calif., Sewer Impr.	719,728	Loveland, Colo., High School	300,000	Athens, Ga., Forestry Bldg.	142,750
Salinas, Calif., School	30,909	Lakewood, Colo., School	80,000	Athens, Ga., Library	314,227
Salinas, Calif., School	381,800	Littleton, Colo., School	31,000	Austell, Ga., Waterworks	12,727
Santa Monica, Calif., School	109,047	Monument, Colo., School	1,300	Atlanta, Ga., State Office Bldg.	569,965
San Bruno, Calif., Flood Control Ext. ..	71,642	Montrose, Colo., Waterworks	156,000	Augusta, Ga., Waterworks	146,000
Sebastopol, Calif., School	30,701	Pueblo, Colo., Hospital Bldgs.	1,200,000	Americus, Ga., Audit. Gym.	52,500
Sonora, Calif., School Bldg.	118,000	Platteville, Colo., Audit. and Gym. ..		Austell, Ga., School	35,910
Stockton, Calif., Cotton Warehouse ..	76,364	and Alt. High Sch. Bldg.	40,000	Adel, Ga., Court House and Jail ..	122,000
Sacramento Co., Calif., Hwy. Impr.	54,000	Paonia, Colo., H. S. Bldg.	60,000	Buchanan, Ga., School	36,364
Shandon, Calif., School	54,545	Ridge, Colo., Nurses' Home	94,545	Barnesville, Ga., Jail	25,881
San Diego, Calif., Sanitary Sewer ..	2,000,000	Rand, Colo., School	5,000	Bronwood, Ga., School	11,000
San Diego, Calif., Water Dist. System ..	22,750	Victor, Colo., School	14,388	Blakely, Ga., Munic. Bldg.	37,000
Sacramento Co., Calif., Hwy. Bridges ..	80,000	Walden, Colo., School	9,090	Broxtown, Ga., School	50,000
Santa Maria, Calif., Fire Station	19,500	Woodland Park, Colo., School	22,000	Bostwick, Ga., School Bldg.	11,266
Santa Monica, Calif., City Hall Bldg.	352,860			Brunswick, Ga., Park	33,700
Sacramento, Calif., Waterworks	380,605			Concord, Ga., Waterworks	27,272
Santa Rosa, Calif., Schools	363,191			Columbus, Ga., Gym.	43,000
San Leandro, Calif., Sewer Impr.	225,740			Columbus, Ga., Bathhouses and Swi-	
Santa Rosa, Calif., School	33,558			ming Pools	100,000
San Francisco, Calif., Road Impr.	1,789,100			Claxton, Ga., School	24,364
Stanislaus Co., Calif., Canal Lining ..				Carrollton, Ga., College Add.	50,000
and Pipe Lines	75,000			Columbus, Ga., Waterworks	12,564
South Whittier, Calif., School	35,400			Cochran, Ga., Library	28,000
St. Helena, Calif., Dam Impr.	30,000			Cordele, Ga., Street Paving	66,000
San Jose, Calif., School	1,162,600			Columbus, Ga., School	30,000
Sacramento, Calif., Library Add.	101,750			Catoosa, Ga., School	50,909
Shipley, Iowa, Const. Gym-Audit. and ..				Colquitt, Ga., Sewer Sys.	45,450
Add. to Sch. Bldg.	37,000			Calhoun, Ga., City Hall-Fire Sta. ...	30,000
Sacramento Co., Calif., Adds. to ..				Dahlonega, Ga., Dining Hall	66,500
Courthouse and Jail	160,000			Douglas, Ga., Library	30,000
Santa Barbara, Calif., School	23,476			Dahlonega, Ga., Library	27,000
San Beunaventura, Calif., Harbor ..				Darien, Ga., Jail	28,300
Impr.	300,000			Eastman, Ga., Co. Courthouse	14,545
San Beunaventura, Calif., Storage ..				Forest Park, Ga., Waterworks	19,000
Reservoir	843,636			Forest Park, Ga., School Addition ..	34,000
San Carlos, Calif., School	74,223			Flat Rock, Ga., School	30,490
Santa Paula, Calif., Sewer System ..	182,520			Forest Park, Ga., School Addition ..	34,000
San Pedro, Calif., Mun. Bldg.	32,600			Greensboro, Ga., School	35,000
Sonora, Calif., Hospital	40,000			Griffin, Ga., Sch. Bldg.	27,500
Santa Barbara, Calif., Field Bldg.	59,400			Heard Co., Ga., School	20,000
Salinas, Calif., School	74,000			Hiawasse, Ga., School	36,500
Santa Cruz, Calif., Municipal Bldg.	254,545			Irwin, Ga., Waterworks	20,600
Santa Clara Co., Calif., Port and ..				Jones Co., Ga., School and Sch. Add. ..	30,779
Channel	2,100,000			Loganville, Ga., Waterworks System ..	26,763
Sacramento, Calif., Schools	688,133			La Grange, Ga., Court and Jail	234,521
Shasta, Calif., School	16,727			La Fayette, Ga., Sewerage	42,565
Suisun, Calif., School	6,470			Lumber City, Ga., Waterworks	32,000
Sonoma, Calif., Sewer Sys. Add.	7,760			Laurens Co., Ga., School	10,909
Santa Maria, Calif., Co. Bldg. Addn.	36,000			Laurens Co., Ga., School	12,090
Stockton, Calif., Health Center	52,372			Marietta, Ga., Recreation Center ..	62,876
Tehachapi, Calif., Waterworks	16,206			Mansfield, Ga., Waterworks	23,636
Taft, Calif., School	122,212			Macon, Ga., Sidewalks	70,746
Tulare, Calif., Hospital	122,093			Macon Co., Ga., Schools	80,000
Turlock, Calif., Irrigation Impr.	300,000			Macon, Ga., Streets	94,000
Twain Harte, Calif., School Bldg.	21,123			Marietta, Ga., County Prison	44,548
Upper Lake, Calif., Gym. Bldg.	17,000			Marshallville, Ga., Waterworks	25,500
Upland, Calif., City Hall and Jail ..	74,308			Monroe, Ga., City Hall-Jail	45,000
Ventura, Calif., Hospital Bldg.	38,000			Moultrie, Ga., Hospital	125,000
Visalia, Calif., Sewer Sys. Impr.	90,502			Madison, Ga., Municipal Bldg.	27,272
Visalia, Calif., Street lighting	50,814			Macon, Ga., Swimming Pool and Bath ..	
Ventura Co., Calif., Drainage Sys.	318,181			House	65,000
Vallejo, Calif., Schools	500,000			Moultrie, Ga., Community Bldg.	63,975
Weimar, Calif., Hospital	79,710			Newnan, Ga., School	21,818
Williams, Calif., School	9,250			Newnan, Ga., Water Sys.	12,651
Wasioja, Calif., School Bldgs.	12,500			Nicholls, Ga., Waterworks	25,400
Woodland, Calif., School	126,535			Pelham, Ga., School	51,600
Whittier, Calif., School Addn.	23,860			Perry, Ga., Waterworks	37,000
Whittier, Calif., School	39,750			Rome, Ga., School	47,707
Wilmington, Calif., Harbor Impr.	45,000			Rossville, Ga., Streets	60,000
Yuba City, Calif., Municipal Bldg.	40,000			Rome, Ga., High Sch. Bldg.	225,000
Yreka, Calif., Hospital and Nurses' ..				Rossville, Ga., Mun. Bldg.	54,000
Bungalow	25,000			Rome, Ga., Waterworks	447,151
Yucaipa, Calif., School	45,500			Ringgold, Ga., Courthouse	84,545
				Sandersville, Ga., Schools	150,000
				Sylvester, Ga., School	100,000
				Sumter Co., Ga., Dormitory	61,548
				Sylvania, Ga., Sewerage	38,000
				Tifton, Ga., Street Impr.	107,000
				Thomas Co., Ga., School	20,000
				Thomaston, Ga., County Bldg.	69,000
				Talbotton, Ga., County Jail	17,242
				Tifton, Ga., Aud. and Gym.	71,000
				Tifton, Ga., Library	30,000
				Temple, Ga., High School	36,000
				Taylorville, Ga., School	30,910
				Tifton, Ga., Sewer and Waterworks ..	162,470
				Thomaston, Ga., School Impr.	33,000
				Valdosta, Ga., Library	72,000
				Union City, Ga., Waterworks System ..	25,454
				Upton Co., Ga., Swimming Pool	36,631
				Watkinsville, Ga., Waterworks	43,625
				Waynesboro, Ga., Courthouse	175,000
				Watkinsville, Ga., Courthouse	73,400
				Watkinsville, Ga., School	18,200

CONNECTICUT

Bethel, Conn., School Bldg.	190,000
Bristol, Conn., Grandstand	\$34,720
Branford, Conn., Sewer Sys.	426,000
Berlin, Conn., Sewage System	159,399
Chester, Conn., Road Impr.	80,550
Danbury, Conn., School Add.	100,000
East Lyme, Conn., Prison Bldgs.	460,500
Farmington, Conn., School Bldg.	250,000
Groton, Conn., Filtration	163,500
Hartford Co., Conn., Sewer Sys.	25,000
Hartford, Conn., Fire House	80,000
Manchester, Conn., Sewer Sys.	75,000
Middletown, Conn., Hospital Bldgs.	2,311,400
Middletown, Conn., School	416,000
Mansfield, Conn., School Bldgs.	1,400,000
Mystic, Conn., School	422,500
Norwich, Conn., Hospital Impr.	769,200
Newton, Conn., Hospital Bldgs.	1,680,000
N. Stonington, Conn., Hwy. Impr.	129,467
New Haven, Conn., Sewage Plant ..	1,504,500
New Britain, Conn., School	289,000
New Britain, Conn., Water Plant ..	599,000
New Britain, Conn., School	289,000
Newtown, Conn., School	100,000
New Haven, Conn., Highway Bridge ..	785,000
Ridgefield, Conn., School Add.	287,000
Rocky Hill, Conn., Veterans' Home.	3,250,000
W. Hartford, Conn., Sanitary Sewers ..	117,500
Stamford, Conn., School	277,780
Stamford, Conn., School	277,780
Southbury, Conn., Schools	5,726,000
Sterling, Conn., Bridge and Road ..	
Improvements	106,255
Stamford, Conn., School	325,000

DELAWARE

Delaware, State of, Police Bldg.	\$82,575
Dover, Del., Sewerage	40,700
Dover, Del., Laboratory Bldg.	50,000
Newark, Del., College Bldgs.	660,000
Rehoboth Beach, Del., School	290,900

DISTRICT OF COLUMBIA

Washington, D. C., Gallinger Hospital ..	
Building	\$750,000
Washington, D. C., Municipal Court- ..	
house	1,500,000
Washington, D. C., Juvenile Court- ..	
house	550,000
Washington, D. C., Jail	1,600,000
Washington, D. C., School Addns.	1,038,000

FLORIDA

Boca Raton, Fla., Bridge	\$96,363
Citra, Fla., Audit.	21,220
Clearwater, Fla., Sewer Ext.	344,613
Dade County, Fla., Sea Wall	45,000
Fort Pierce, Fla., Hospital	76,364
Gainesville, Fla., Dormitory	320,000
Gainesville, Fla., Univ. Bldg.	332,727
Gainesville, Fla., Dormitory	178,182
Jacksonville, Fla., Schools	3,712,122
Jacksonville, Fla., Munic. Impr.	69,347
Jacksonville, Fla., Elec. Plant Addn. ..	2,503,000
Jacksonville, Fla., Sewers	329,777
Jacksonville, Fla., Sewers	282,424
Jacksonville, Fla., Water Plant	450,500
Mulberry, Fla., School	56,363
Mayo, Fla., Waterworks	36,364
Miami, Fla., Harbor	4,000,000
Miami, Fla., Reservoirs	109,090
Miami, Fla., Bridge	418,000
Miami, Fla., Viaduct	1,425,454
Ocala, Fla., School	375,000
Pensacola, Fla., Highway Bridge	54,545
Sarasota, Fla., Water System	138,181
Tallahassee, Fla., Infirmary	109,545
Tallahassee, Fla., Dormitory	470,909
Tallahassee, Fla., Univ. Bldg.	263,636

GEORGIA

Athens, Ga., Waterworks Impr.	\$203,636
Athens, Ga., Streets	37,150
Arlington, Ga., City Hall and Jail ..	15,660
Augusta, Ga., Munic. Audit.	243,270
Augusta, Ga., Library Bldg.	68,580
Athens, Ga., Classroom Bldg.	117,600

IDAHO

Ada Co., Idaho, Road Impr.	\$100,000
Boise, Idaho, Sewage Plant	227,727
Bannock County, Idaho Arts Bldg.	290,909
Bannock County, Idaho School Add.	58,182
Burley, Idaho, Courthouse	85,000
Boise City, Idaho, Sewers	227,272
Clifton, Idaho, Aud. and Gym.	10,909
Clark Fork, Idaho, School	35,455
Canyon Co., Idaho, Drainage Sys.	130,909
Emmett, Idaho, Courthouse and Jail ..	45,455

Emmett, Idaho, Streets	80,000	Grant Park, Ill., School	100,000	Spring Valley, Ill., Gymnasium	122,220
Fruitland, Idaho, School	63,636	Geneva, Ill., School	34,545	Stronghurst, Ill., Well, Pump and Pump House	24,545
Firth, Idaho, Streets	4,560	Glen Ellyn, Ill., School	172,727	South Pekin, Ill., Wtks. and Munic. Bldg.	20,000
Idaho Falls, Idaho, School	20,000	Galesburg, Ill., Schools	760,000	Urbana, Ill., University Bldg.	1,272,728
Irwin, Idaho, School Addn.	10,000	Galens, Ill., School	52,727	Urbana, Ill., College Bldg.	545,454
Idaho Falls, Idaho, Street Impr.	139,091	Genoa, Ill., Aud.-Gymnasium	45,454	Urbana, Ill., Student Center Bldg.	1,000,000
Jerome, Idaho, Courthouse	80,000	Hamilton, Ill., School Add.	8,181	Urbana, Ill., Storm Drains	107,898
Kimberly, Idaho, School Addn.	10,000	Hillsboro, Ill., Schools	127,272	Warren Co., Ill., Roads Impr.	350,000
Moscow, Idaho, Engineering Bldg.	290,909	Harrisburg, Ill., Street Impr.	38,181	West Udia, Ill., School	25,454
Malad, Idaho, Courthouse	63,000	Homewood, Ill., Munic. Bldg.	136,363	Williamsfield, Ill., Waterworks	29,090
Mountain Home, Idaho, Street Impr.	30,909	Hurst, Ill., Waterworks	78,000	West Frankfort, Ill., School	172,727
Nez Perce Co., Idaho, Irrigation	160,000	Highwood, Ill., Waterworks	178,182	Waukegan, Ill., Sanatorium	429,091
Pocatello, Idaho, School	250,909	Hopeton, Ill., Waterworks	72,727	Winchester, Ill., Sewer System	72,727
Pocatello, Idaho, City Hall and Jail	55,455	Illinois, State of, Pavement	1,200,000		
Pocatello, Idaho, Courthouse Add.	74,545	Iroquois County, Ill., Highways	156,363		
Preston, Idaho, School	180,000	Joliet, Ill., Police Sta. Alter.	10,000		
Roberts, Idaho, School	74,589	Jerseyville, Ill., School	101,818		
Rupert, Idaho, Waterworks	5,454	Jacksonville, Ill., Waterworks Impr.	433,966		
Sugar City, Idaho, Schools	20,000	La Grange, Ill., Waterworks	200,000		
Sand Point, Idaho, Courthouse	83,667	La Salle, Ill., Sch. Bldg.	168,000		
Shelley, Idaho, School	10,000	Litchfield, Ill., City Hall	45,454		
Troy, Idaho, School	24,000	Lake County, Ill., Street Impr.	420,000		
Twin Falls, Idaho, Waterworks Impr.	160,000	Lake Zurich, Ill., School	9,090		
Ucon, Idaho, School Bldgs.	42,000	Lewiston, Ill., School	49,090		
Weiser, Idaho, Courthouse	76,364	Lockport, Ill., Street Lighting	7,272		
		Lisbon, Ill., School	72,727		
		Lawrenceville, Ill., School	258,181		
		Monmouth, Ill., School Alters.	236,363		
		Macomb, Ill., Pavements	81,818		
		Mascoutah, Ill., Municipal Bldg.	50,909		
		Morton, Ill., School	116,364		
		Marengo, Ill., Sewage	60,000		
		Murphysboro, Ill., City Hall	44,279		
		Morton, Ill., Water Treatment Plant	27,272		
		Mt. Vernon, Ill., City Hall	104,000		
		Morrison, Ill., Sewer System Plant	145,454		
		Monmouth, Ill., Hospital Addition	83,635		
		Mt. Prospect, Ill., School	58,181		
		Moline, Ill., Street Improvements	33,077		
		Maple Grove, Ill., School	38,181		
		Mattoon, Ill., Athletic Field Impr.	8,445		
		Mendota, Ill., School	110,909		
		Mansfield, Ill., School	136,364		
		Marseilles, Ill., Sewage	43,334		
		Madison County, Ill., Highway Structures	1,775,000		
		Montgomery Co., Ill., Roads	154,545		
		Moline, Ill., School	194,545		
		Moline, Ill., Storage Tank	55,000		
		Morrison, Ill., Schools	15,454		
		Marshall, Ill., Sewer System	80,000		
		Mundelein, Ill., School	49,090		
		New Berlin, Ill., School	54,545		
		Normal, Ill., Hospital	100,000		
		Normal, Ill., Univ. Bldg.	581,818		
		New Athens, Ill., Gym.	32,727		
		Orangeville, Ill., Street Impr.	53,600		
		Oregon, Ill., School	17,273		
		Oswego, Ill., Sewage	18,181		
		Oregon, Ill., Waterworks Add.	234,545		
		O'Fallon, Ill., School	80,000		
		Peru, Ill., Sewage	252,545		
		Plano, Ill., Sewerage	39,300		
		Pekin, Ill., Sewage Trt. Plant	256,363		
		Pocahontas, Ill., Waterworks	70,909		
		Peoria, Ill., Streets	239,290		
		Pekin, Ill., Storm Sewer	96,363		
		Pekin, Ill., Street Paving	143,636		
		Pearl City, Ill., School	61,818		
		Plainfield, Ill., Sewage Plant	43,636		
		Prophetstown, Ill., Sewerage	41,818		
		Pinckneyville, Ill., Courthouse	45,454		
		Peoria, Ill., School	40,032		
		Palos Park, Ill., School	50,909		
		Potomac, Ill., School	7,500		
		Quincy, Ill., Highway Garage	29,771		
		Rock Island, Ill., Sewage Sys. Impr.	23,640		
		Rock Island, Ill., Storm Drain	143,636		
		Robinson, Ill., Gym.-Auditorium	138,181		
		Rock Island, Ill., School	21,818		
		Rock Island, Ill., Sewer Impr.	3,000,000		
		Ramsey, Ill., Paving	12,727		
		Richmond, Ill., School	10,363		
		Rushville, Ill., Water System	75,000		
		Rock Falls, Ill., School	74,545		
		Rock Island, Ill., Waterworks	515,000		
		Rock Island Co., Ill., Road Impr.	110,909		
		Rock Island, Ill., City Hall-Jail	345,454		
		Roxana, Ill., Community Bldg.	60,963		
		Sawyerille, Ill., School	29,090		
		Springfield, Ill., School	120,000		
		Springfield, Ill., Fire Station	14,545		
		Sterling, Ill., Sewer System Impr.	276,363		
		Steelville, Ill., Sewerage	60,000		
		Springfield, Ill., School	23,818		
		Springfield, Ill., Munic. Impr.	165,454		
		Springfield, Ill., Street Impr.	165,018		
		South Pekin, Ill., Waterworks	81,819		
		Summit, Ill., Street Impr.	28,181		
		Schiller, Ill., Waterworks	52,727		
		Springfield, Ill., City-County Bldg.	1,695,714		
		Springfield, Ill., Sewerage Plant	11,480		
		Sycamore, Ill., Roads	376,363		
		Standard, Ill., School	20,000		
		Stillman Valley, Ill., School Add.	34,400		
		Springfield, Ill., Street Impr.	29,090		
		Sandwich, Ill., Disposal Plant	36,363		
		Springfield, Ill., School Add.	23,000		

ILLINOIS

Adams County, Ill., Highway	\$60,000
Arlington Heights, Ill., School	172,727
Aledo, Ill., Sewerage	49,090
Aurora, Ill., School	20,000
Altamont, Ill., City Hall-Jail	16,364
Altamont, Ill., Swimming Pool and Bath House and Equipment	14,545
Bannockburn, Ill., School	18,500
Bartonville, Ill., Sewerage	136,363
Byron, Ill., Sewerage	26,000
Belleville, Ill., Pavements and Bridge	123,636
Breese, Ill., School	34,000
Breese, Ill., Waterworks	96,363
Bloomington, Ill., Municipal Bldg.	200,000
Blue Island, Ill., Community Bldg.	54,545
Berwyn, Ill., Municipal Bldg.	54,545
Berwyn, Ill., Municipal Bldg.	163,636
Berkeley, Ill., Village Hall	29,090
Benton, Ill., Sewage Plant	94,545
Belvidere, Ill., School	125,000
Cook Co., Ill., School	9,090
Coal Valley, Ill., School	70,909
Cherry Valley, Ill., School	32,727
Canton, Ill., Streets	136,364
Carlinville, Ill., Waterworks	52,727
Chicago, Ill., Grade Xing. Elim.	254,545
Chicago, Ill., Subway	492,727
Chicago, Ill., Viaduct	600,000
Cook Co., Ill., School	176,364
Chicago, Ill., Subway	1,210,600
Clay City, Ill., School	169,090
Cicero, Ill., Street Impr.	34,545
Cicero, Ill., Street Impr.	32,727
Chicago, Ill., Viaduct Approach	2,783,636
Chicago, Ill., Library Bldg.	80,000
Chicago, Ill., Subway	230,909
Chicago, Ill., Armory Bldg.	1,270,909
Cicero, Ill., Streets and Paving	132,727
Cicero, Ill., Pavement	103,636
Chicago, Ill., Bridge	1,727,272
Chicago, Ill., Hangar and Hqts.	370,909
Chicago, Ill., Armory Add. and Alt.	443,636
Chicago, Ill., Water Sys.	1,121,818
Chicago, Ill., Viaduct	439,200
Chicago, Ill., Recrea. Park	800,000
Chicago, Ill., Street Impr.	150,000
Chicago, Ill., Bridge	100,000
Chicago, Ill., Waterworks Impr.	12,035,000
Crystal Lake, Ill., Sewage Plant	100,000
Chicago, Ill., School	132,727
Decatur, Ill., County Bldg.	1,000,000
Decatur, Ill., Highways	18,181
Downers Grove, Ill., Waterworks	58,181
De Kalb, Ill., Gym. and Aud.	56,363
El Paso, Ill., School Impr.	27,272
Edwardsville, Ill., Streets	134,000
East Moline, Ill., Concrete Sidewalks	45,454
East Peoria, Ill., Sewer System and Plant	263,636
East Peoria, Ill., City Hall	40,000
East St. Louis, Ill., Bridge	5,500,000
East St. Louis, Ill., Police Station and Fire St.	252,727
East Peoria, Ill., Waterworks	36,901
East Peoria, Ill., Bathhouse	70,909
East Peoria, Ill., Pavements	120,000
East Moline, Ill., Hospital	150,909
Evansville, Ill., Waterworks	95,000
Emden, Ill., Fire Station	40,000
Farina, Ill., Waterworks System	61,818
Forrest, Ill., Wtks. and Sewerage	38,182
Frankfort, Ill., School	38,181
Forreston, Ill., School	40,000
Forrest, Ill., Gymn. and Auditorium	50,909
Fairfield, Ill., Sewerage	58,181
Flora, Ill., School	136,363
Geneva, Ill., County Home	56,363
Geneseo, Ill., Hospital Add.	34,545
Geneva, Ill., Const. of a Munic. Elec. Power Plt.	280,000

INDIANA

Albany, Ind., Waterworks	\$40,000
Albion, Ind., Power Plant Impr.	85,454
Anderson, Ind., High School	210,909
Attica, Ind., Armory	85,000
Bloomington, Ind., School	9,300
Bloomington, Ind., Dormitory	470,909
Bloomington, Ind., Dormitory	489,091
Bluffton, Ind., Add. County Infirmary Bldg.	60,000
Bicknell, Ind., City Hall	41,818
Bloomington, Ind., Dormitory	234,545
Bluffton, Ind., Power Plant Impr.	20,000
Bloomington, Ind., School	525,454
Butler, Ind., Instit. Bldg.	2,297,000
Brighton, Ind., School	78,182
Bremen, Ind., School	221,364
Bloomington, Ind., School	30,300
Bloomington, Ind., Students' Club and Dorm.	47,187
Boone Co., Ind., School	31,000
Clermont, Ind., Institutional Bldg.	150,000
Crawfordsville, Ind., Sew. and Plant	198,000
Corydon, Ind., Sewerage	95,000
Dyer, Ind., School	72,727
Decatur, Ind., Hospital	56,363
East Chicago, Ind., School	536,363
Elberfeld, Ind., School	36,363
Evansville, Ind., Hospital	193,000
East Chicago, Ind., Library	60,000
East Gary, Ind., School	10,000
Edinburg, Ind., Sewage Works	100,000
Evansville, Ind., Levees and Water Plant Add.	710,000
Fremont, Ind., School	80,000
Fort Wayne, Ind., Sewerage Impr.	5,160,000
Frankfort, Ind., School	149,091
Goshen, Ind., School	176,363
Glendale, Ind., Street Impr.	33,000
Griffith, Ind., School Add.	67,273
Goshen, Ind., Garage	52,727
Gary, Ind., Library Addn.	85,454
Garrettsville, Ind., Power Plant Addn.	39,000
Greendale, Ind., Sewers	25,000
Goshen, Ind., Power Plant Impr.	89,050
Huntington, Ind., Co. Building	90,909
Hammond, Ind., Sewerage	3,195,075
Huntington, Ind., Hospital Addn.	172,727
Huntington Co., Ind., School Bldg.	71,000
Indianapolis, Ind., Armory	150,000
Indianapolis, Ind., State Office	3,672,000
Indianapolis, Ind., State Bldg.	325,454
Indianapolis, Ind., Bridge	67,273
Indianapolis, Ind., Bridge	110,909
Indianapolis, Ind., Armory	115,000
Indianapolis, Ind., Street Impr.	155,294
Indianapolis, Ind., Hospital Bldg.	247,272
Indianapolis, Ind., Hospital	318,181
Indianapolis, Ind., Sewerage Treat. Pl.	42,500
Indianapolis, Ind., Club Buildings	500,000
Indianapolis, Ind., High School Add.	260,000
Indianapolis, Ind., Hangar Bldg.	97,000
Jeffersonville, Ind., Hospitals	138,182
Jeffersonville, Ind., School	69,090
Jasper Co., Ind., School	67,272
Kokomo, Ind., Schools	336,363
Lebanon, Ind., Armory	105,000
La Fayette, Ind., Swimming Pool	123,636
La Porte, Ind., School	64,115
Logansport, Ind., School	198,181
Logansport, Ind., Hospital	225,000
Logansport, Ind., Hospital	225,000
Lake Village, Ind., School	36,400
Laotto, Ind., School	113,000
Logansport, Ind., School	63,636
Lafayette, Ind., Univ. Bldg.	1,120,000
Logansport, Ind., Hospital Ward	225,000
Liberty, Ind., School Add.	75,000
Muncie, Ind., College Bldg. Add.	290,000
Mishawaka, Ind., Streets Impr.	225,800
Madison Twp., St. Joseph Co., Ind., School	136,500
Muncie, Ind., College Bldg.	95,000
Martinsville, Ind., School Alters.	24,545
Munster, Ind., Waterworks	46,000
Muncie, Ind., School	235,000
Martinsville, Ind., Sewage	147,500
Milroy Twp., Jasper Co., Ind., School	26,363
Marshall County, Ind., School Add.	56,363
Newcastle, Ind., Infirmary	255,000

North Liberty, Ind., School	43,636
Newcastle, Ind., Sewers	475,000
Noble Co., Ind., School Add.	66,000
Orland, Ind., School	41,818
Plainfield, Ind., School	73,400
Porter County, Ind., High School ..	100,170
Peru, Ind., School	205,713
Peru, Ind., Sewers	545,454
Pleasant Mills, Ind., School Add. ..	60,000
Rockville, Ind., Hospital	650,000
Rensselaer, Ind., School Add.	127,273
Richmond, Ind., Auditorium	230,909
Spencer, Ind., Armory	85,000
Shelbyville, Ind., School Add.	75,000
Steuben Co., Ind., School Add.	32,450
Sellersburg, Ind., School	101,818
Summitville, Ind., School	54,545
Terre Haute, Ind., College Bldgs. ..	191,782
Versailles, Ind., Wtks. and Sewer ..	191,000
Valparaiso, Ind., Hospital	263,636
Valparaiso, Ind., School	54,545
Vincennes, Ind., Municipal Cemetery	162,100
Impr.	
Valparaiso, Ind., Adds. and Impr. to	
Sewerage System	172,727
West Lafayette, Ind., School	225,454
Wayne Co., Ind., School Add's.	67,900
White River, Ind., School	153,350
Wayne Twp., Marion County, Ind.,	
School	110,909
West Lafayette, Ind., College Bldg.	603,520
West Lafayette, Ind., School	225,454
Washington Twp., Ind., School Impr.	58,400

IOWA

Audubon, Iowa, Courthouse	\$131,775
Alta, Iowa, Streets and Sewers ...	143,337
Ames, Iowa, College Bldg.	149,346
Anamosa, Iowa, Municipal Bldg. ..	18,400
Ames, Iowa, Dormitory	266,640
Ackley, Iowa, Power Plant Impr.	20,000
Altoona, Iowa, School	40,000
Blencoe, Iowa, Gymnasium Add.	21,500
Burlington, Iowa, Courthouse and	
Jail	280,000
Buena Vista Co., Iowa, Hgwy. Impr.	47,560
Boone, Iowa, Waterworks	101,000
Boone, Iowa, City Hall	159,000
Bancroft, Iowa, Street Impr.	38,181
Bloomfield, Iowa, School	100,000
Bode, Iowa, Sewers	4,700
Belle Plaines, Iowa, Sewers	104,000
Bellevue, Iowa, Swimming Pool ...	21,331
Brooklyn, Iowa, Streets	12,500
Cedar Falls, Iowa, College Power	
Plant	7,500
Council Bluffs, Iowa, School	236,000
Cedar Rapids, Iowa, Street Impr.	43,400
Cedar Falls, Iowa, School	400,000
Centerville, Iowa, City Hall	123,000
Clarinda, Iowa, Hospital	120,000
Cerro Gordo Co., Iowa, Road Impr.	79,540
Chariton, Iowa, Gym	94,700
Cherokee, Iowa, Sewer System	144,660
Cerro Gordo Co., Iowa, Bridges.	16,844
Callender, Iowa, Waterworks	16,040
Climbing Hill, Iowa, School	37,000
Corning, Iowa, Court House	153,000
Cresco, Iowa, Court House	205,000
Clayton Co., Iowa, Road Impr.	100,000
Coggon, Iowa, Sewer System	50,560
Creston Iowa, Wtks. Impr.	58,100
Cedar Falls, Iowa, School	127,270
Cedar Rapids, Iowa, Bridge Repairs	13,860
Decorah, Iowa, School	36,000
Decorah, Iowa, Community Bldg.	80,000
Davenport, Iowa, Street	242,440
Delaware Co., Iowa, Bridge	41,300
Decorah, Iowa, Bridge	20,600
Davis Co., Iowa, Highway	100,000
Dickinson Co., Iowa, Road Impr.	52,000
Decorah, Iowa, Bridge	28,000
Dayton, Iowa, Elec. Plant	66,000
Des Moines, Iowa, Bridge	110,000
Dawson, Iowa, Waterworks	12,000
Emmetsburg, Iowa, Sewerage	58,800
Estherville, Iowa, Waterworks	53,120
Fremont, Iowa, Waterworks	25,000
Farnhamville, Iowa, School	29,674
Forest City, Iowa, Municipal Bldg.	44,000
Fayette, Iowa, School	90,000
Fairfield, Iowa, Waterworks Impr.	22,727
Fort Dodge, Iowa, City Auditorium ..	229,801
Gowrie, Iowa, Town Hall	15,300
Grand Junct., Iowa, School	45,000
Galva, Iowa, School	30,000
Granger, Iowa, Audit-Gym.	27,300
Grundy Center, Iowa, School	80,000
Guthrie Co., Iowa, Road Impr.	33,320
Graettinger, Iowa, School	26,700
Guttenberg, Iowa, Wtks. Impr.	39,760
Harcourt, Iowa, Waterworks	22,500
Hull, Iowa, Waterworks	17,000
Hawkeye, Iowa, Waterworks	10,000
Hazleton, Iowa, Waterworks	30,000
Holman Township, Iowa, School ..	35,000
Hancock Co., Iowa, School	72,700

Humboldt, Iowa, School Addn.	45,000
Iowa City, Iowa, Athletic Field ...	51,000
Independence, Iowa, Courthouse-Jail	220,000
Indianola, Iowa, Courthouse	145,000
Indianola, Iowa, Bleachers	27,270
Iowa City, Iowa, Air Conditioning ..	35,000
Ida County, Iowa, Highway	76,931
Iowa City, Iowa, Univ. Bldg.	200,000
Jefferson Co., Iowa, Bridges	53,500
Keokuk, Iowa, Municipal Bldg.	279,075
Keokuk Co., Iowa, Highway	98,500
Kingsley, Iowa, School Impr.	55,450
Lisbon, Iowa, School	65,400
Ledyard, Iowa, City Hall	10,910
Le Mars, Iowa, County Garage	9,090
Lohrville, Iowa, School Impr.	80,000
Linn Co., Iowa, Bridges	67,000
Linn County, Iowa, Road Impr.	53,600
Linn County, Iowa, Road Impr.	92,000
Lake Mills, Iowa, Sew. Disp. Pl.	22,500
Mason City, Iowa, Library Repairs.	130,000
Marshalltown, Iowa, Co. Home Bldg.	89,850
Millford, Iowa, Town Hall	10,500
Mason City, Iowa, Bridge	35,600
Mason City, Iowa, Courthouse	475,740
Marshalltown, Iowa, Sew. Disp. Pl.	463,636
Melbourne, Iowa, Waterworks	35,000
Mason City, Iowa, School	175,000
Muscatine Co., Iowa, Road Impr.	180,000
Mason City, Iowa, Water System	
Add. and Betterments	121,000
Mason City, Iowa, Swimming Pool ..	33,000
Minden, Iowa, School	55,000
Monticello, Iowa, Municipal Bldg.	56,363
Mason City, Iowa, Public Library ..	308,000
Merlo, Iowa, Waterworks	29,000
Nora Springs, Iowa, School	37,000
New Providence, Iowa, Waterworks	18,535
Ottumwa, Iowa, Nurses' Home	34,632
O'Brien Co., Iowa, Road	107,450
Plymouth Co., Iowa, Generating Sta.	56,000
Postville, Iowa, Street Impr.	103,233
Ouasqueton, Iowa, School Add.	27,000
Ringgold Co., Iowa, Road Impr.	128,000
Rowan, Iowa, School	18,500
Rock Rapids, Iowa, Comm. Bldg.	25,000
Rockwell, Iowa, Gym. Audit.	20,000
Rock Rapids, Iowa, Swimming Pool ..	21,818
Rock Valley, Iowa, School	59,000
Spencer, Iowa, City Hall	100,000
Storm Lake, Iowa, School	23,355
Spencer, Iowa, Jail	31,818
Sioux City, Iowa, School	156,000
Sac City, Iowa, Jail	35,800
Sioux County, Iowa, Road	356,000
Spirit Lake, Iowa, Adds. and Alt.	
Heat Equip. and Equip. Audit.	16,800
Sioux City, Iowa, School Bldg.	125,000
Sioux City, Iowa, Add. and Remodel	
Pub. Library Bldg.	125,000
Springville, Iowa, School	145,000
Sioux City, Iowa, Mun. Bldg.	1,740,000
Sac City, Iowa, Garage	13,740
Strawberry Point, Iowa, Gym-Audit.	27,700
Summer, Iowa, Town Hall	27,000
Thompson, Iowa, School	7,560
Tripoli, Iowa, Town Hall	17,500
Union Twn., Iowa, School	19,000
Waterloo, Iowa, Bridge	245,000
Waverly, Iowa, Waterworks	26,000
Woden, Iowa, School	16,000
Woodbury Co. Iowa, Rds. and Bridg.	60,000
Webster City, Iowa, Sewerage	144,000
Wyoming, Iowa, School	36,000
West Burlington, Iowa, School	72,727
Webb, Iowa, Waterworks	17,000
Waucoma, Iowa, School Addn.	58,000
Wesley, Iowa, Audit-Gym. Add. Sch.	
Building	20,000
Wellman, Iowa, Street Impr.	50,000
Worth Co., Iowa, Road Impr.	50,000
Washington, Iowa, Street Impr.	12,000
Waukon, Iowa, Courthouse	220,000

KANSAS

Ada, Kans., School	\$49,800
Anthony, Kans., School	17,325
Andale, Kans., Audit-Gym.	28,000
Atchison, Kans., Street Impr.	75,713
Atchison, Kans., Munic. Impr.	130,588
Bonner Springs, Kans., City Hall ..	30,100
Blue Rapids, Kans., School	94,000
Bunker Hill, Kans., Gym-Audit.	
Bldg.	37,600
Ruhler, Kans., School	13,316
Buhler, Kans., Township Hall	12,664
Bellevue, Kans., Courthouse-Jail.	243,470
Coldwater, Kans., School	80,000
Courtland, Kans., School	63,000
Cherryvale, Kans., Waterworks	86,200
Cheyenne Co., Kans., School Add.	60,000
Concordia, Kans., Munic. Bldg.	200,000
Columbus, Kansas, Schools	60,000
Chetopa, Kans., Waterworks	52,000
Coffeyville, Kans., Fire Station	80,000
Carbondale, Kans., School	100,000
De Soto, Kans., Sewerage	28,000

De Soto, Kans., Waterworks	51,608
Dickinson Co., Kans., Library-Music	
Hall	85,000
Edna, Kans., Community Bldg.	24,545
Emporia, Kans., School	263,636
Ellsworth, Kans., Str. and Alley	
Impr.	19,000
Effingham, Kans., School	36,000
Ellsworth, Kans., Bridge	102,000
Ellsworth, Kans., Waterworks	22,000
Emporia, Kans., Public Bldg.	120,460
Easton, Kans., School	24,545
Ellsworth, Kans., Sewerage	45,000
Eskridge, Kans., Sewerage	63,453
Florence, Kans., Power	114,000
Glasco, Kans., School	63,500
Gridley, Kans., School	47,816
Gridley, Kans., School	41,350
Grinnell, Kans., Waterworks	41,818
Hoisington, Kans., Munic. Bldg.	84,000
Hillsboro, Kans., School	12,000
Hoisington, Kans., School	300,000
Horton, Kans., Library Building ..	24,776
Hiawatha, Kans., Waterworks Impr.	38,095
Hays, Kans., School Addn.	185,453
Horton, Kans., Waterworks	22,000
Hillsboro, Kans., Nat. Gas System	49,000
Hutchinson, Kans., Munic. Bldg.	60,000
Hutchinson, Kans., College Bldg.	375,000
Hutchinson, Kans., Fire Station ..	36,991
Independence, Kans., School	75,000
Independence, Kans., Schools	450,000
Iola, Kans., Schools	310,000
Junction City, Kans., Jail	45,454
Jetmore, Kans., School	100,000
Kansas City, Kans., Hospital	136,363
Kansas City, Kans., Impr. to Military	
Memorial Bldg.	75,000
Kansas City, Kans., Mun. Bldg.	200,000
Kansas City, Kans., School Bldg.	750,000
Kansas City, Kans., School	225,000
Kansas City, Kans., College Bldg.	63,636
Leavenworth, Kans., Jail	132,000
Labette County, Kans., Courthouse	325,000
Muncie, Kans., School	18,181
Manhattan, Kans., Swimming Pools	70,052
Madison, Kans., School	54,000
Marion, Kans., Streets	55,720
Meriden, Kans., School	28,200
Muncie, Kans., School	45,454
Norwich, Kans., School	10,900
Ottawa, Kans., Waterworks	68,200
Oketo, Kans., Waterworks	21,500
Olathe, Kans., Waterworks Impr.	28,800
Osawatimie, Kans., City Hall	82,400
Palco, Kans., Waterworks	32,727
Phillipsburg, Kans., School	137,750
Roseland, Kans., School	62,500
Simpson, Kans., School	41,800
St. John, Kans., School	177,000
Stafford, Kans., Waterworks Impr.	20,000
Sharon, Kans., Waterworks	30,000
Severy, Kans., Waterworks	66,300
Sterling, Kans., Waterworks	88,570
St. Francis, Kans., Sewage Disp. Pl.	29,000
Soldier, Kans., School	31,000
Salina, Kans., City Hall	48,000
Topeka, Kans., School Impr.	120,000
Topeka, Kans., Street Impr.	70,174
Turner, Kans., School Add.	140,000
Topeka, Kans., Auditorium	1,545,454
Topeka, Kans., Storm Sewers and	
Pump Station	105,000
Topeka, Kans., Storm and Sanitary	
Relief Sewer	103,300
Valley Falls, Kans., Waterworks ..	9,000
Wichita, Kans., School Bldg.	310,296
Winfield, Kans., School	90,909
Winfield, Kans., School	69,050
Wilson, Kans., Sewer System	73,853
Wichita, Kans., University Bldg.	21,818
Wellington, Kans., Mun. Pow. Pl.	204,000
Winfield, Kans., Power Plant Add.	177,100
Yates Center, Kans., School	64,774

KENTUCKY

Alexandria, Ky., Aud-Gym. Bldg.	\$28,600
Ashland, Ky., School Impr.	71,700
Beattyville, Ky., High School	67,273
Berea, Ky., Sewer System	164,000
Bradfordville, Ky., Wtks. Impr.	23,939
Bellevue, Ky., School Alt.	40,000
Brodhead, Ky., Waterworks	40,000
Covington, Ky., Waterworks	155,747
Cynthiana, Ky., Water System	50,909
Covington, Ky., Bridges	40,700
Crab Orchard, Ky., Waterworks ..	53,418
Covington, Ky., Waterworks	155,747
Carlisle Co., Ky., Schools	67,273
Dixon, Ky., Waterworks System.	41,818
Eminence, Ky., Sewer System	47,273
Elizabethtown, Ky., School	72,420
Frankfort, Ky., College Bldgs.	291,500
Flatwoods, Ky., Waterworks	40,000
Henderson, Ky., Gas Distr.	201,818
Kenton Co., Ky., Water Supply Sys.	50,909
Lexington, Ky., Univ. Bldg.	550,000

Lawrenceburg, Ky., Waterworks	67,000
Louisville, Ky., School Add.	354,452
La Grange, Ky., Hospital	59,531
Lawrenceburg, Ky., School	13,800
Lancaster, Ky., School	81,745
Lebanon, Ky., School	62,907
Lexington, Ky., Waterworks	3,585,455
Lexington, Ky., Hospital	144,000
Lexington, Ky., Munic. Impr.	75,000
Mt. Eden, Ky., School	40,000
Madison Co., Ky., Schools	192,733
Maysville, Ky., High School	30,909
Millersburg, Ky., Water Treat. Pl.	3,691
Marion, Ky., Sch. Bldg.	49,090
Midway, Ky., Sewer	60,000
Owensboro, Ky., Waterworks Impr.	2,313,370
Russell, Ky., Disposal Plant	70,800
Raceland, Ky., School	28,967
Ravenna, Ky., School	61,818
Richmond, Ky., College Bldg.	106,000
Richmond, Ky., Dormitory	150,000
Richmond, Ky., School	15,921
Trapp, Ky., School	65,562
Versailles, Ky., School Impr.	38,622
West Point, Ky., Waterworks	60,000
Whitesville, Ky., Water System	34,545

LOUISIANA

Arabi, La., Courthouse and Jail	\$445,454
Atlanta, La., School	25,578
Alexandria, La., Courthouse	590,909
Ashland, La., Audit-Gym	17,718
Alexandria, La., Swim. Pool	98,182
Bell City, La., School	100,000
Bossier Parish, La., Schools	45,455
Baskin, La., School	21,818
Bossier City, La., Schools	521,800
Baton Rouge, La., Dormitory	170,605
Benton, La., School	43,140
Baton Rouge, La., Library Bldg.	104,996
Baton Rouge, La., University Bldg.	420,000
Baton Rouge, La., School	430,000
Calvin, La., School	25,578
Clayton, La., School	45,272
Clinton, La., School	15,000
Dubberly, La., School	11,720
Enon, La., School	10,820
Elm Grove, La., School	40,000
Edgard, La., Jail	47,272
Ferriday, La., School	40,277
Franklinton, La., School	191,230
Farmdale, La., School Add.	23,000
Houma, La., School	717,979
Hathaway, La., School	105,454
Isabel, La., School	9,892
Jennings, La., School	11,676
Jennings, La., Stadium	16,400
Kinder, La., Municipal Bldg.	10,370
Lake Charles, La., Municipal Bldg.	899,836
Lake Charles, La., Streets	106,000
Lafayette, La., City Hall and Jail	129,000
Lake Arthur, La., School	10,875
Leesville, La., Jail and Courthouse	175,000
Lake Arthur, La., Gymnasium	32,500
Linville, La., School	27,300
Monroe, La., University	232,500
Metairie, La., Sewer System	1,001,416
Marion, La., Schools	54,530
Maurice, La., School	38,100
New Roads, La., Courthouse	159,865
New Roads, La., Sewer and Wtwks.	143,000
Natchitoches, La., Dormitory	64,178
Napoleonville, La., School Gym	85,500
New Orleans, La., Univ. Bldg.	93,766
Natchitoches, La., Stadium	86,047
New Iberia, La., Courthouse-Jail	325,000
New Orleans, La., School	1,211,243
Natchitoches, La., Courthouse and Jail	258,168
Oberlin, La., School	21,000
Pineville, La., Hospital	200,000
Pineville, La., Hospital Bldg.	200,000
Pierre Part, La., School	145,500
Ponchatoula, La., School	58,000
Reserve, La., Gymnasium	52,727
Roseland, La., School Impr.	20,500
Rayville, La., Power Plant Addn.	70,000
Robeline, La., School	47,552
Sulphur, La., School	29,985
Shreveport, La., Library	45,262
Shreveport, La., School	60,000
Shreveport, La., Street Impr.	140,000
Shreveport, La., Auditorium	26,000
St. Joseph, La., Community Bldg.	14,293
Shreveport, La., School	25,314
Shreveport, La., Gym	39,432
Shreveport, La., Auditorium	35,000
Shreveport, La., Auditorium	87,450
Springhill, La., School	30,000
Shreveport, La., Auditorium	20,783
Simmesport, La., Auditorium	73,800
Shreveport, La., Drainage	51,765
Sikes, La., School	90,000
Shreveport, La., Street Impr.	13,500
Shreveport, La., Street Impr.	13,063
Shreveport, La., Fire Station	4,400
Shreveport, La., Street Impr.	3,800
Shreveport, La., Street Impr.	19,057

Shreveport, La., Street Impr.	8,000
Shreveport, La., Street Impr.	18,050
Tallulah, La., Municipal Bldg.	103,737
Tensas Parish, La., School	98,520
Tickfaw, La., School Impr.	16,500
Winnsboro, La., School	150,000
Winnfield, La., Stadium	21,608
Winnfield, La., School	29,601
Welch, La., Audit-Gym. Bldg.	24,000
Welsh, La., School	10,875

MAINE

Bath, Maine, Waterworks	\$130,000
Cumberland, Maine, School	34,635
Caribou, Maine, Mun. Bldg.	65,000
Grand Lake Stream, Maine, School	13,325
Hampden, Maine, Sewers	52,381
Kittery, Maine, School	90,550
Lec, Maine, School and Town Hall	7,000
Lincoln Co., Me., Bridge	145,000
Madawaska, Maine, School	15,500
Maine, State of, Bridges	600,000
Oakland, Maine, Fire Station	20,000
Oakland, Maine, School	38,000
Parsonfield, Maine, Town Hall	29,500
Presque Isle, Maine, Residence Bldg.	16,398
Saco, Me., Fire Station	60,000
Sanford, Maine, School	81,642
South Paris, Maine, Sewer Wks. Add.	80,000
South Portland, Maine, School	45,454
Southwest Harbor, Maine, Fire Sta.	6,000
Smithfield, Maine, School	9,000
Turner, Maine, School Addn.	9,030
York Co., Maine, Waterworks Imp.	114,545

MARYLAND

Allegany Co., Md., Schools	\$1,092,100
Cottage City, Md., Street Impr.	23,250
College Park, Md., Univ. Bldgs.	2,277,000
Chesapeake Beach, Md., Bulkhead	54,545
Colmar Manor, Md., Mun. Bldg.	10,000
Cumberland, Md., Waterworks Impr.	1,025,000
Cambridge, Md., Sewerage	119,900
Chase, Md., School	134,386
Cambridge, Md., Library	20,000
Denton, Md., Courthouse	50,000
Easton, Md., Power Plant Impr.	91,300
Ellicott City, Md., Courthouse Impr.	43,000
Frederick Co., Md., Schools	545,000
Frederick, Md., Fire Engine Hse.	35,900
Hagerstown, Md., Munic. Bldg.	415,000
Howard Co., Md., Schools	195,000
Henryton, Md., Hospital	173,800
Hyattsville, Md., Highway	135,000
Jessups, Md., Penal Inst. Impr.	909,091
Montgomery Co., Md., Schools	417,634
Prince Georges Co., Md., Sewer	114,510
Riverdale, Md., Paving	118,000
Salisbury, Md., Munic. Impr.	148,900
Shipley, Md., Fire Engine House	31,000
Seagsville, Md., School	55,000
Washington Co., Md., Schools	290,995

MASSACHUSETTS

Amherst, Mass., Admin. Bldg. Alt.	\$53,000
Agawam Center, Mass., School	186,200
Amherst, Mass., Sewers and Plant	95,000
Attleboro, Mass., High School Add.	130,000
Agawam Center, Mass., School	186,200
Boxboro, Mass., School	32,200
Boston, Mass., School Add.	142,000
Boston, Mass., School Bldg.	446,000
Boston, Mass., School Bldg.	156,500
Barnstable, Mass., Harbor Dredging	121,800
Barnstable, Mass., Waterworks	432,000
Beverly, Mass., Police Station	89,568
Cambridge, Mass., School	356,360
Cambridge, Mass., School	850,000
Cambridge, Mass., Hosp., Power House, Drs. Residences	250,000
Cambridge, Mass., Public Garage	157,647
Dighton, Mass., School	55,000
East Hampton, Mass., H. S. Add.	140,000
Foxborough, Mass., Waterworks	75,800
Gardner, Mass., City Hall	350,000
Gloucester, Mass., School	1,100,000
Greenfield, Mass., Waterworks	150,282
Holliston, Mass., School Building	75,000
Hudson, Mass., School	317,730
Hamilton, Mass., Waterworks	198,100
Lexington, Mass., Sewerage System Impr.	105,300
Lexington, Mass., Sewerage	154,000
Ludenburg, Mass., School	145,000
Lynn, Mass., School	622,049
Lynn, Mass., School	390,000
Marshfield, Mass., School	180,000
Medford, Mass., Schools	311,940
Medford, Mass., Street Impr.	200,000
Medford, Mass., School	55,000
Medford, Mass., H. S. Bldg. Add.	727,000
Mansfield, Mass., Sewer Sys.	428,550
Melrose, Mass., Sewer	203,000
Medford, Mass., Sewer Ext.	4,500,000
Methuen, Mass., Waterworks Impr.	468,000

Newton, Mass., School	235,000
Natick, Mass., Fire Station	17,500
North Adams, Mass., School Building	306,924
Norton, Mass., School Impr.	10,000
Pepperell, Mass., School	110,000
Plainville, Mass., Town Hall	50,000
Quincy, Mass., Library	152,000
Rockport, Mass., Ocean Sewer Outlet	23,000
Rockport, Mass., Waterworks	134,500
Rockport, Mass., Water Sys.	29,300
Rockport, Mass., School	53,409
Springfield, Mass., School	1,439,650
Springfield, Mass., Sewer Impr.	2,979,537
Saugus, Mass., Sewer System	450,000
Shirley, Mass., Auditorium-Gym.	45,250
Stoneham, Mass., School	92,000
Sharon, Mass., Police-Fire Station	64,962
Saugus, Mass., High School Impr.	624,000
Salem, Mass., Grade Xing Elim.	3,734,000
Tisbury, Mass., School	100,000
Webster, Mass., Waterworks	35,000
Worcester, Mass., Sewer	98,000
Walpole, Mass., Sewers	52,300
Webster, Mass., Sewage System	375,000
Weymouth, Mass., Sewer System	500,000
Westfield, Mass., Bridge	227,000

MICHIGAN

Ann Arbor, Mich., Univ. Dorm.	\$2,100,000
Adrian, Mich., Sewerage	120,000
Ann Arbor, Mich., School	150,909
Ann Arbor, Mich., School Add.	143,892
Bessemer, Mich., School Addn.	15,710
Battle Creek, Mich., School	161,683
Bay City, Mich., County Jail	220,000
Berrien Springs, Mich., Sewerage Impr.	17,000
Brighton, Mich., Water System	100,000
Battle Creek, Mich., Library Bldg.	51,700
Birmingham, Mich., Sewage	305,000
Buchanan, Mich., Sewerage System	65,000
Cassopolis, Mich., Sewerage System	80,200
Clarkston, Mich., Street Impr.	20,000
Charlevoix, Mich., Elec. Sys. Impr.	125,990
Coldwater, Mich., Hospital	260,745
Coopersville, Mich., Sewage Treat. Plant	32,727
Coldwater, Mich., Power Plant	325,000
Dearborn, Mich., Sewer Plant Add.	44,000
Dearborn, Mich., Street Impr.	48,300
Dearborn, Mich., School Add.	165,900
Detroit, Mich., Waterworks	230,000
Detroit, Mich., Highway Dev't.	686,756
Detroit, Mich., School	893,886
Detroit, Mich., Grade Senara'n.	340,742
Dearborn, Mich., School Gym. Add.	40,101
Eaton Rapids, Mich., School	70,800
East Lansing, Mich., Judging pavilion	93,600
Ecorse, Mich., Grade Crossing	472,684
Elsie, Michigan, School	47,273
Eloise, Mich., Co. Infirmary	163,500
East Lansing, Mich., Auditorium	493,800
Grand Haven, Mich., Sewage	108,120
East Lansing, Mich., College Dorm.	450,000
East Lansing, Mich., Hospital	180,000
Ferndale, Mich., School	210,550
Flint, Mich., Sewage	285,454
Grand Haven, Mich., Hospital	99,632
Gregory, Mich., School	15,454
Grand Blanc, Mich., School	32,727
Grosse Pointe Farms, Mich., Sewers	29,500
Grosse Pointe Farm, Mich., Sewage	60,000
Grosse Pointe Farms, Mich., Waterworks Impr.	33,000
Grosse Pointe Shores, Mich., Pavement	23,636
Grosse Pointe Park, Mich., Sewerage	1,340,000
Gagetown, Mich., Audit-Gym. School Add.	30,000
Hillsdale, Mich., Hospital	248,745
Hillsdale, Mich., Power Plant Bldg.	135,000
Kalamazoo Co., Mich., School Add.	20,000
Lansing Twp., Ingham Co., Mich., School	20,565
Mt. Pleasant, Mich., School	180,000
Monroe, Mich., Dock	285,000
Mount Pleasant, Mich., School	127,272
Mt. Pleasant, Mich., Student Bldg.	200,000
Macomb Co., Mich., Gymn. Add.	25,000
Niles, Mich., Police-Fire Station	89,000
New Buffalo, Mich., School Add.	53,000
Newberry, Mich., School	150,000
Newberry, Mich., Powerhouse	350,000
Oscoda, Mich., School	30,909
Pontiac, Mich., Hospital Bldgs.	540,000
Port Austin, Mich., School	25,454
Richmond, Mich., Sewer Works	50,909
Rapid River, Mich., Schools	36,000
River Hills, Wis., Sewer System	49,090
South Haven, Mich., Street Impr.	83,620
Saginaw County, Mich., School Bldg. Add.	50,000
Saginaw, Mich., School Bldg.	1,264,726
Saginaw County, Mich., School	27,200
St. Clair, Mich., School	76,500
Traverse City, Mich., Pow. Pl. Add.	125,000
Three Rivers, Mich., Hospital	60,000
Three Oaks, Mich., Sewers	43,636

Wayne Co., Mich., Grade Separa'n	450,000
Wyandotte, Mich., Elec. Pl. Impr.	395,000
Wayne Co., Mich., Admin. Bldg.	158,450
Wayne, Mich., School	77,863
Wahjamega, Mich., Power Plant	325,000
Woodland, Mich., School	62,446
Walled Lake, Mich., School	150,909
Webberville, Mich., School	50,000
Ypsilanti, Mich., Hospital Bldg.	950,000
Ypsilanti, Mich., Hospital Bldgs.	150,000
Ypsilanti, Mich., College	325,454
Ypsilanti, Mich., Waterworks	95,000
Zeeland, Mich., Power Plant Add.	55,000

MINNESOTA

Alexandria, Minn., Power	\$162,465
Arnold, Minn., School	35,000
Austin, Minn., School Addition	105,200
Alexandria, Minn., City Hall-Fire Station	126,794
Austin, Minn., Sewerage Pl. Add.	325,280
Austin, Minn., School Addition	105,200
Albert Lea, Minn., Schools	546,000
Buadette, Minn., Fish Hatchery	22,000
Buffalo, Minn., Court House	270,000
Brewster, Minn., School	41,800
Bigfork, Minn., School	80,800
Benton Co., Minn., Roads	160,000
Buffalo Lake, Minn., School	65,336
Bloomington, Minn., Add. Sch. Bldg.	92,000
Cottonwood Co., Minn., Road Impr.	98,370
Cleveland, Minn., Waterworks	18,000
Chicago Bay, Minn., School	30,000
Crookston, Minn., Sewerage Sys.	280,000
Crookston, Minn., Pavements, Walks, Curbs	52,374
Cromwell, Minn., Gym. and Aud.	47,000
Clarks Grove, Minn., Waterworks	10,000
Climax, Minn., School	70,000
Duluth, Minn., Reservoir Roof	175,000
Duluth, Minn., Sewerage	1,166,000
Effie, Minn., School	63,355
East Grand Forks, Minn., Wtws.	41,200
Elbow Lake, Minn., School	78,600
Fergus Falls, Minn., School	250,000
Fairfax, Minn., School	93,946
Faribault, Minn., School	276,363
Finland, Minn., School	15,300
Gilbert, Minn., Library	75,000
Glenwood, Minn., Hospital	105,000
Gilbert, Minn., Pavements	40,114
Huntley, Minn., School	26,571
Hayfield, Minn., Municipal Bldg.	14,987
Hazel Run, Minn., School	30,500
Hibbing, Minn., Street Impr.	236,155
Indus, Minn., School	22,000
International Falls, Minn., Municipal Bldgs.	185,700
Jordan, Minn., Gym.-Audit.	46,200
Jasper, Minn., School	100,300
Kittson Co., Minn., Road Impr.	7,242
Kensington, Minn., Waterworks	32,528
Kandiyohi Co., Minn., Road Impr.	74,544
Lac qui Parle, Minn., Bridge	42,500
Litchfield, Minn., Sewerage	125,000
Lanesboro, Minn., Sewer and Water-works Impr.	113,670
La Salle, Minn., School	11,800
Lakeville, Minn., School	26,639
La Crescent, Minn., Waterworks	49,446
Lamberton, Minn., School	66,000
Loman, Minn., School	27,900
Minneapolis, Minn., School	730,200
Mahtomedi, Minn., School	124,000
Mahnomen, Minn., School	108,000
Milaca, Minn., School	92,800
Martin, Minn., School Add. and Alt.	60,000
Minneapolis, Minn., School	500,000
Minneapolis, Minn., High School	878,000
Morton, Minn., Sewer System	33,500
Mankato, Minn., School	443,364
Meeker County, Minn., Drainage Structures	39,000
Minneapolis, Minn., School	40,000
Minneapolis, Minn., Astronom. Observatory	14,300
Milroy, Minn., School	38,500
Minneapolis, Minn., School	800,000
Minneapolis, Minn., School	283,250
Mower Co., Minn., Drainage	159,200
Nopeming, Minn., Sewerage System	27,272
Nicollet, Minn., School	56,017
Northfield, Minn., Swimming Pool	34,600
New Linden, Minn., School	76,000
North Branch, Minn., School	16,954
New Brighton, Minn., School	27,881
Ortonville, Minn., School	126,020
Owatonna, Minn., Sewage Plant	145,000
Olmstead Co., Minn., Roads and Bridges	214,500
Osakis, Minn., School	99,845
Pillager, Minn., School Add.	40,000
Revere, Minn., School	20,650
Raymond, Minn., School	78,900
Ray, Minn., School	70,000
Red Wing, Minn., School	24,909
Red Wing, Minn., Schools	31,180

Rochester, Minn., School	839,000
Roseau, Minn., Sewer Sys.	67,800
Redwood Falls, Minn., School	11,500
Sleepy Eye, Minn., Street Impr.	28,000
St. Paul, Minn., Streets	525,000
South St. Paul, Minn., Athletic Field	30,775
St. Charles, Minn., Street Impr.	55,000
St. Peter, Minn., Swimming Pool	34,500
Sartell, Minn., Fire Engine House	7,633
Stephen, Minn., School	50,300
St. Paul, Minn., Schools	702,500
Spring Grove, Minn., Street Impr.	50,000
St. Paul, Minn., Dormitory	150,893
Starbuck, Minn., School Impr.	26,185
Spicer, Minn., Waterworks	48,800
Swift Co., Minn., Waterworks	3,000
Thief River Falls, Minn., Sanitarium Add.	60,000
Two Harbors, Minn., School	336,336
Wheaton, Minn., School	100,000
Winona, Minn., Library Bldg.	91,400
Wabasha, Minn., School	30,700
Waterville, Minn., Sewerage	146,487
Worthington, Minn., Street Impr.	197,190
Wheaton, Minn., Courthouse	140,000
Westbrook, Minn., Street Impr.	64,000
Winona, Minn., Municipal Bldg.	230,700
Westbrook, Minn., Street Impr.	64,000
Westbrook, Minn., School	117,000

MISSISSIPPI

Arcola, Miss., Gym.-Aud. Bldg.	\$54,545
Becket, Miss., School	40,000
Cleveland, Miss., School Add.	31,818
Calhoun, Miss., Sewerage	34,545
Corinth, Miss., School	145,454
Cedar Hill, Miss., School	11,500
Como, Miss., School	18,182
Forest, Miss., Waterworks	10,000
Centerville, Miss., Gas Trans.	37,500
Glen Allen, Miss., Schools	28,300
Greenville, Miss., School	140,000
Goodman, Miss., Schools	100,000
Hernando, Miss., School	45,454
Hollandale, Miss., School	10,400
Hickory, Miss., Waterworks	27,272
Indianola, Miss., Hospital	17,500
Indianola, Miss., Schools	175,000
Jackson, Miss., Memorial Bldg.	272,727
Leakesville, Miss., Courthouse, Jail	74,000
Laurel, Miss., School	100,000
Moss Point, Miss.	40,761
Marigold, Miss., School Bldg.	16,815
Meridian, Miss., Courthouse Impr.	166,363
New Albany, Miss., Courthouse Re-pair-Jail	45,454
Natchez, Miss., Bridge	2,500,000
Natchez, Miss., Waterworks	300,000
Oakland, Miss., School	36,360
Oxford, Miss., School Building	45,454
Oxford, Miss., Univ. Bldg.	12,750
Oxford, Miss., University Impr.	181,818
Oxford, Miss., City Hall	30,909
Philadelphia, Miss., School	20,257
Ripley, Miss., School	80,000
Starkville, Miss., School	11,818
Vaiden, Miss., School	90,909
Washington Co., Miss., Highway Bridge	4,500,000
Waveland, Miss., Street Impr.	43,695

MISSOURI

Ashland, Mo., School	\$50,000
Bethany, Mo., Courthouse	124,200
Booneville, Mo., Municipal Bldg.	81,800
Braymer, Mo., Waterworks	69,090
Butler, Mo., School	78,000
Braymer, Mo., Sewer System	49,091
Columbia, Mo., Power Plant Add.	1,085,000
Columbia, Mo., Hospital	909,090
Crystal City, Mo., School	151,800
Camdenton, Mo., Swimming Pool	20,100
Coffee, Mo., School Add.	18,750
Cooper Co., Mo., School Adds.	234,000
Cape Girardeau, Mo., College Library	321,818
Carroll Co., Mo., Roads	78,181
Chariton Co., Mo., Roads	11,500
Chariton Co., Mo., Roads	91,000
Carroll Co., Mo., Roads	27,200
Columbia, Mo., Swimming Pool	27,500
Dearborn, Mo., Waterworks	38,181
Eldorado Springs, Mo., Schools	68,890
Ellisville, Mo., School Bldg.	18,206
Edina, Mo., School	35,000
Festus, Mo., School	30,000
Farley, Mo., School	10,000
Fillmore, Mo., School	27,300
Fulton, Mo., Courthouse, Jail	227,272
Glendale, Mo., Schools	31,818
Havti, Mo., School	54,500
Holden, Mo., Schools	36,200
Huntsville, Mo., School	31,985
Houstonia, Mo., School	63,636
Hopkins, Mo., School	58,976
Humansville, Mo., Waterworks Add.	40,670
Independence, Mo., Impr. to Munic. Power Plant	17,000

Jefferson City, Mo., Radio Station	17,110
Jefferson City, Mo., Radio Station	17,110
Jefferson City, Mo., Library and Dormitory	260,000
Jefferson Co., Mo., School	51,880
Kirkwood, Mo., Patrol Bldg.	14,330
Kirkville, Mo., Paving	454,545
Kearney, Mo., School Add.	27,600
Knob Noster, Mo., School Impr.	40,179
Kirkwood, Mo., Waterworks	50,450
Kansas City, Mo., School Bldg.	516,038
King City, Mo., Sewer	65,000
Kansas City, Mo., Fire Station	77,715
Kansas City, Mo., Community Bldg.	56,800
Kirkwood, Mo., School	90,936
Kirkville, Mo., Waterworks Impr.	44,000
Kansas City, Mo., Fire Station	61,890
Kansas City, Mo., Municipal Bldg.	985,828
Lafayette Co., Mo., Highway Impr.	90,909
Lafayette Co., Mo., Highway Impr.	200,000
Lexington, Mo., Jail	60,000
Lexington, Mo., Courthouse	36,400
Ladue, Mo., School	181,818
Lewiston, Mo., School	64,826
Lincoln, Mo., Schools	32,700
Linden, Mo., School	16,000
Lock Springs, Mo., School	30,660
Leadwood, Mo., Gymnasium	67,200
Ladue, Mo., Bridge	14,000
Lafayette Co., Mo., Highway Impr.	100,000
Milan, Mo., Courthouse	125,454
Monroe Co., Mo., School Add.	25,604
Memphis, Mo., School	77,300
Mexico, Mo., Street Impr.	238,445
Missouri, State of, State Bldgs.	113,302
Mt. Pleasant Twp., Cass Co., Mo., Road and Street Impr.	100,000
Maryville, Mo., Courthouse	400,000
Macon County, Mo., Courthouse	254,545
Maryville, Mo., Library Bldg.	139,989
Maplewood, Mo., School	270,000
Nodaway Co., Mo., Highway Impr.	100,000
New Madrid, Mo., Waterworks Sys.	19,000
New Haven, Mo., Waterworks	5,650
Nodaway Co., Mo., Highway Impr.	181,818
Nodaway Co., Mo., Highway Impr.	200,000
Overland, Mo., School Add.	18,340
Osage Beach, Mo., School	16,364
Overland, Mo., Sewer System	320,000
Overland, Mo., School Add.	20,159
Pacific, Mo., Waterworks Impr.	6,500
Platte City, Mo., Schools	34,545
Pilot Grove, Mo., School	29,720
Rockport, Mo., Bridge	740,000
Riverview Gardens, Mo., School	48,000
Rockport, Mo., Ice Plant	40,000
St. Joseph, Mo., Police Station	150,000
St. Joseph, Mo., Street Impr.	217,305
St. Louis, Mo., Fire Stations	1,350,000
St. Louis, Mo., Zoo Bldg.	72,500
St. Louis, Mo., Greenhouses	35,500
St. Louis, Mo., School	270,588
St. Louis, Mo., Schools	1,425,000
Salt Creek Twp., Chariton Co., Mo., Roads	48,500
Saline Co., Mo., Roads and Streets	109,091
St. Louis, Mo., Park	95,000
Slater, Mo., Schools	85,450
St. Joseph, Mo., Utility Bldg.	21,425
St. Louis, Mo., Hospital	335,000
St. Joseph, Mo., Runways	198,158
Saline Co., Mo., Highways	72,727
St. Louis, Mo., Street Impr.	11,660
St. Clair, Mo., Waterworks	8,800
Saline Co., Mo., Highway Impr.	200,000
Springfield, Mo., Sewer Add. and Impr.	400,300
Saline Co., Mo., Bridges	1,351,600
St. Joseph, Mo., Memorial Bldg.	63,600
St. Louis, Mo., Hospital	2,570,000
Springfield, Mo., College Bldg.	418,181
St. Joseph, Mo., Schools	900,000
Springfield, Mo., College Bldg.	418,181
St. Joseph, Mo., Street Impr.	95,000
St. Joseph, Mo., Sewerage System	925,257
St. Joseph, Mo., City Hall Impr.	291,725
University City, Mo., Fire Engine House	42,000
University City, Mo., Sewerage	1,700,571
University City, Mo., Club House	51,923
Valley Park, Mo., Schools	35,544
Van Horn Twp., Carroll Co., Mo.	36,363
Vandalia, Mo., Power Dist.	172,300
Washington Twp., Nodaway Co., Mo., Roads	100,000
Webster Groves, Mo., Adds. Sewerage Sys.	100,000
Webster Groves, Mo., Sewerage Sys.	238,000
Webster Groves, Mo., Sewerage Sys.	41,150
Warrensburg, Mo., Library Bldg.	200,000
Warrensburg, Mo., Gym. Building	136,049

MONTANA

Bozeman, Mont., School	\$135,000
Billings, Mont., School	1,110,909
Bridger, Mont., School	91,000
Billings, Mont., Street Impr.	11,500

Bozeman, Mont., School	\$135,000
Belgrade, Mont., High School	60,000
Butte, Mont., Library and Museum	250,000
Boulder, Mont., Waterworks	29,091
Butte, Mont., Streets	43,700
Big Horn Co., Mont., Schools	81,818
Chinook, Mont., School	186,000
Cut Bank, Mont., Courthouse, Jail	125,000
Cut Bank, Mont., Courthouse, Jail	125,000
Dixon, Mont., School	27,272
Dillon, Mont., School Adds.	275,000
Fairfield, Mont., School	100,000
Fromberg, Mont., School	63,000
Fairview, Mont., School	50,000
Glasgow, Mont., Courthouse	16,000
Helena, Mont., City Hall Add.	62,727
Hysham, Mont., School	31,000
Joliet, Mont., School	32,727
Lewistown, Mont., Waterworks Impr.	238,182
Libby, Mont., School Add.	80,000
Lewistown, Mont., Sewerage	108,000
Laurel, Mont., Water Sys.	40,000
Missoula, Mont., Univ. Bldg.	250,909
Sunburst, Mont., School	40,000
Sunburst, Mont., Sewer Works	45,455
Thompson Falls, Mont., School	136,363
Warden, Mont., School	85,000
Whitefish, Mont., School	127,360
Whitefish, Mont., School	127,360
Winifred, Mont., High School	55,000

NEBRASKA

Brainard, Nebr., Waterworks Add.	\$8,320
Cumming Co., Nebr., School Add.	27,272
Dodge, Nebr., Auditorium	37,000
Elwood, Nebr., Co. Courthouse	76,363
Fremont, Nebr., School	100,000
Garden Co., Nebr., School Add.	32,000
Holdrege, Nebr., Municipal Bldg.	135,000
Holdrege, Nebr., Park Impr.	50,000
Kearney, Nebr., School Stadium	17,000
Kearney, Nebr., Dormitory	160,000
Kearney, Nebr., City Hall	130,000
Lincoln, Nebr., Street Impr.	101,000
Lincoln, Nebr., School	70,000
Lincoln, Nebr., School	70,000
Mullen, Nebr., School	33,000
North Bend, Nebr., Auditorium	32,727
North Platte, Nebr., School	280,000
Platte Co., Nebr., Trans. Lines	5,190,000
Silver Creek, Nebr., Waterworks	11,230
Weeping Water, Nebr., School	107,720

NEVADA

Carson City, Nev., Audit.	\$70,000
Elko, Nev., School	165,000
East Ely, Nev., State Hgh. Bldg.	28,071
Fallon, Nev., Courthouse	127,272
Lund, Nev., Elec. Plant	34,545
Reno, Nev., Bridge	25,772
Reno, Nev., Bridge	16,748
Sparks, Nev., Municipal Bldg.	79,100
Winnemucca, Nev., Fire Station	19,734

NEW HAMPSHIRE

Bedford, N. H., School	\$16,414
Bristol, N. H., School	79,500
Concord, N. H., Library	193,270
Concord, N. H., State Office Bldg.	640,000
Concord, N. H., Office and Warehouse	133,239
Clairemont, N. H., School	64,300
Durham, N. H., School Add.	225,000
Franklin, N. H., School	263,000
Gilford, N. H., School	37,750
Hudson, N. H., School	85,000
Hampton Beach, N. H., Bridge	581,571
Manchester, N. H., Armory	443,420
Milford, N. H., School Add.	37,180
Nashua, N. H., City Hall	350,000
Rye, N. H., Jetties	280,000
Rochester, N. H., Waterworks	214,458
Somersworth, N. H., Waterworks	13,100
Stratford, N. H., Watermains	34,545
Stratford, N. H., Waterworks	30,000
Tilton, N. H., School	155,600
Twin Mountain, N. H., School	60,000
Wakefield, N. H., Water System	89,600
Wakefield, N. H., Water System	89,600
Wolfboro, N. H., Sewer	94,250

NEW JERSEY

Allenhurst, N. J., Jetties	\$87,272
Absecon, N. J., Grade Xing Elim.	1,140,000
Belvidere, N. J., School	215,000
Bogota, N. J., Viaduct	663,500
Basking Ridge, N. J., School Bldg.	200,000
Bound Brook, N. J., Municipal Bldg.	145,300
Budd Lake, N. J., Municipal Bldg.	69,150
Bergen Co., N. J., Sewerage Works	46,000
Bergen Co., N. J., Grade Xing Elim.	375,000
Bloomington, N. J., School Add.	81,400
Camden, N. J., School	60,000
Camden, N. J., High School	640,000
Cape May, N. J., Toll Bridges	1,654,545
Camden, N. J., Steam Plant	390,909

Caldwell, N. J., Schools	300,000
Deal, N. J., Beach Jetties and Bulkhead	325,000
English Town, N. J., Water Sup. Sys.	115,000
East Orange, N. J., Fire House	40,000
Essex Fells, N. J., Sewerage	33,000
Franklin, N. J., School Add.	21,820
Greystone Park, N. J., Hosp. Bldgs.	845,000
Gen Rock, N. J., School	475,000
Hamilton, N. J., Sewerage Sys.	1,560,000
Hillsdale, N. J., School	493,000
Hoboken, N. J., Roadway	567,000
Jersey City, N. J., Hospital	601,000
Jersey City, N. J., Lab. and Garage	656,000
Jersey City, N. J., Armory	400,000
Jersey City, N. J., Hospital	1,374,545
Jersey City, N. J., Nurses Home	2,078,181
Jobstown, N. J., School	75,000
Long Branch, N. J., Jetties	338,000
Linden, N. J., Library	116,363
Lincoln Park, N. J., Water System	189,995
Middletown Twp., Monmouth Co., N. J., Bulkheads and Jetties	30,000
Monmouth Co., N. J., Bridges	168,660
Milford, N. J., Munic. Impr.	100,000
Moorestown, N. J., School Add.	157,361
Millville, N. J., Armory	200,000
Morris Co., N. J., Sewerage	122,000
Middlesex Co., N. J., Bridge	4,696,000
Mercer Co., N. J., Street Impr.	82,235
Manville, N. J., School	160,000
New Jersey, State of, 3 Police Stations	465,357
New Jersey, State of, Armory Add., alt.	475,000
Osbornville, N. J., School Add.	25,454
Passaic Co., N. J., Bridges	1,630,500
Paterson, N. J., School Bldg.	705,454
Randolph Twp., Morris Co., N. J., School	210,000
Rahway, N. J., School	764,000
Rumson, N. J., Bridge	1,140,000
Point Pleasant, N. J., Bulkheads	90,909
Piscataway, N. J., Town Hall	36,363
Pohatcong, N. J., School	53,000
Salem Co., N. J., School	246,480
Scotch Plains, N. J., School	200,000
Trenton, N. J., Power House	39,000
Trenton, N. J., State Capitol Bldg.	2,000,000
Trenton, N. J., Schools	2,547,115
Union City, N. J., Storm Water Relief Sewers	530,060
Weehawken, N. J., Street Impr.	497,000
West Milford, N. J., School	250,000
Woodbridge, N. J., Sch. Bldg.	267,400
Woodbridge, N. J., Grade Xing Elim.	1,675,000
Washington, N. J., School	133,333
Weehawken, N. J., Schools	1,382,985

NEW MEXICO

Albuquerque, N. Mex., Sewer Wks.	\$262,000
Albuquerque, N. Mex., Water Sys.	2,850,000
Albuquerque, N. Mex., Schools	468,592
Albuquerque, N. Mex., Munic. Bldg.	116,000
Carlsbad, N. Mex., Courthouse	250,000
Elmico, N. Mex., School	154,500
Gallup, N. Mex., Water Sys. Impr.	218,181
Hobbs, N. Mex., Sewer System	138,181
Hobbs, N. Mex., School	125,000
Hobbs, N. Mex., City Hal.	63,636

NEW YORK

Argyle, N. Y., School	\$214,000
Auburn, N. Y., School	887,300
Auburn, N. Y., School Add.	385,900
Arcade, N. Y., Municipal Bldg.	40,000
Auburn, N. Y., School	887,300
Akron, N. Y., Garage and Alter. Sch. Bldg.	33,766
Amherst, N. Y., School	554,000
Andover, N. Y., School	380,000
Adams, N. Y., School	194,994
Binghamton, N. Y., Waterworks	1,000,000
Batavia, N. Y., School	45,250
Brockport, N. Y., School	1,100,000
Buchanan, N. Y., Street Impr.	42,500
Binghamton, N. Y., Hospital	850,000
Batavia, N. Y., Water System Impr.	144,368
Burdett, N. Y., School	64,200
Binghamton, N. Y., County Bldg.	586,130
Buffalo, N. Y., Auditorium	1,500,000
Burdett, N. Y., School	64,200
Bolivar, N. Y., School Add.	130,000
Byron, N. Y., School	13,818
Breesport, N. Y., School	275,334
Byron, N. Y., School	13,818
Brooklyn, N. Y., School	210,000
Bolivar, N. Y., School Add.	130,000
Brooklyn, N. Y., School	570,500
Champlain, N. Y., School	295,000
Caledonia, N. Y., Athletic Field	36,000
Corfu, N. Y., School	285,784
Central Islip, N. Y., Hospital	2,027,270
Clyde, N. Y., School	600,000
Chappaqua, N. Y., School Alt.	350,000
Cortland Co., N. Y., School Add. and Alter	410,000

Cortlandt, N. Y., School	100,000
Cheektowaga, N. Y., School	140,000
Corning, N. Y., School	214,600
Cambridge, N. Y., School	550,000
Cortlandt, N. Y., Water Distr. Sys.	70,000
Cortlandt, N. Y., School	100,000
Cheektowaga, N. Y., School	140,000
Downsville, N. Y., School	186,000
Derby, N. Y., School	75,000
Delaware Co., N. Y., School Bldg.	295,000
Davenport, N. Y., School	277,300
Delhi, N. Y., School Bldg.	676,300
Elmira, N. Y., Sch. Bldg.	879,670
East Pembroke, N. Y., School	392,315
East Bloomfield, N. Y., School	264,552
Eldred, N. Y., School	350,000
East Setauket, N. Y., School	400,000
Eden, N. Y., School	300,000
East Syracuse, N. Y., School	292,000
Elmira, N. Y., Sewerage Sys.	140,000
Elmira, N. Y., Bridge	271,180
Edmeston, N. Y., School	281,000
Elmira, N. Y., Stadium	98,000
Fillmore, N. Y., School	310,000
Fultonville, N. Y., School	280,000
Goshen, N. Y., School	445,000
Goshen, N. Y., Waterworks	12,730
Glen Cove, N. Y., Incinerator and Garage	163,636
Glens Falls, N. Y., Disposal Plant	227,750
Greenburgh, N. Y., School	525,000
Glen Falls, N. Y., Fire Station	70,921
Goshen, N. Y., Sewerage	52,000
Gasport, N. Y., School	380,000
Gorham, N. Y., School	65,000
Hempstead, N. Y., School	250,000
Hinsdale, N. Y., School	110,000
Hamburg, N. Y., School	460,000
Hempstead, N. Y., Incinerator	156,500
Henrietta, N. Y., School	330,000
Islip, N. Y., School Bldg.	305,000
Ithaca, N. Y., Hospital Add.	125,000
Johnstown, N. Y., Bridges	87,861
Jobstown, N. J., School	75,000
Johnstown, N. Y., Paving	43,782
Katonah, N. Y., School	598,181
Kings Park, N. Y., School	125,000
Kenmore, N. Y., High School	1,312,000
Lewiston, N. Y., Water Main	89,820
Lockport, N. Y., Schools	1,230,072
Little Falls, N. Y., Highway Bridge	72,000
Lockport, N. Y., Sanitarium	454,545
Leicester, N. Y., Water Supply Sys.	70,000
Mt. Vernon, N. Y., School	370,909
Massapequa, N. Y., School	250,000
Mayfield, N. Y., School	248,607
Morristown, N. Y., School	122,000
Margaretville, N. Y., School	510,000
Mayville, N. Y., School	215,000
Mayville, N. Y., County Jail	240,000
Madison, N. Y., School	50,000
Millerton, N. Y., School	95,708
Manhasset, N. Y., School	400,000
Mamaroneck, N. Y., School	380,000
Mineola, N. Y., Courthouse	2,650,000
Mt. Morris, N. Y., Schools	561,750
Massapequa, N. Y., School	250,000
Mamaroneck, N. Y., School	380,000
Maine, N. Y., Schools	300,000
Mineola, N. Y., Schools	825,000
Meridian, N. Y., School	360,000
Middletown, N. Y., School	798,225
New York, N. Y., School	570,000
New York, N. Y., School	465,000
New York, N. Y., Pier	416,200
New York, N. Y., Schools	1,052,000
New York, N. Y., Highway Dev.	10,655,000
New York, N. Y., School	958,000
New York City, N. Y., Buildings	18,500,000
New York City, N. Y., Buildings	18,500,000
New York, N. Y., Bridge Approach	3,610,909
New York, N. Y., Hospital	3,315,000
Niagara Co., N. Y., School Impr.	134,690
Nunda, N. Y., School Add. and Alt.	456,000
Newstead, N. Y., Town Hall	20,500
New Rochelle, N. Y., Bridge	138,720
North Tonawanda, N. Y., School	225,000
Newark, N. Y., School	650,000
Napes, N. Y., School	330,000
North Tarrytown, N. Y., Municipal Bldg.	215,000
Olean, N. Y., Municipal Bldg.	250,000
Ossining, N. Y., School Bldg.	617,813
Orleans Co., N. Y., School	132,110
Oceanside, N. Y., School Add. and Alt.	456,000
Onondaga Ind. Res., N. Y., School	154,545
Port Chester, N. Y., Municipal Bldg.	130,500
Panama, N. Y., School	95,000
Portville, N. Y., School	418,000
Phelps, N. Y., School	165,000
Port Washington, N. Y., School	475,000
Penn Yan, N. Y., Schools	1,350,000
Port Washington, N. Y., School	475,000
Rockville Centre, N. Y., Sewerage System Impr.	224,000
Ransomville, N. Y., School	90,000

Rensselaer, N. Y., Schools	1,336,000	Lincolnton, N. C., School Add.	31,700	Butler, Ohio, School	90,000
Rochester, N. Y., Sewer System	905,000	Morgantown, N. C., Municipal Impr.	509,000	Barnesville, Ohio, School Bldg.	136,000
Roxbury, N. Y., School Bldg.	297,000	Middlesex, N. C., Sewer System	21,818	Brilliant, Ohio, School	81,818
Rushford, N. Y., School	32,000	New Hanover, N. C., Schools	85,454	Bowling Green, Ohio, Sewage Plant	
Richmond, N. Y., School	410,500	Oakboro, N. C., Water and Sewer	60,000	Add.	92,000
Rockville Center, N. Y., Municipal		Pikeville, N. C., Waterworks and		Bowling Green, Ohio, School	250,000
Bldg.	148,372	Sewerage	45,000	Coshocton, Ohio, School	15,000
Rockville Center, N. Y., Municipal		Pembroke, N. C., Waterworks and		Cincinnati, Ohio, College Bldgs.	499,822
Bldg.	148,372	Sewerage Systems	56,363	Coshocton, Ohio, School	18,176
Rush, N. Y., School	300,000	Pinehurst, N. C., Nurses' Home	65,000	Cleveland, Ohio, Bridge and St.	
Rensselaer, N. Y., School	200,000	Raleigh, N. C., Laboratory Bldg.	290,909	Imprs.	225,000
Richmond Co., N. Y., Street Impr.,		Rockingham Co., N. C., Schools and		Celina, Ohio, Jail Bldg.	40,000
etc.	739,000	School Add.	136,000	Canton, Ohio, Schools	1,143,750
Richmond, N. Y., School Bldg.	670,000	Roanoke Rapids, N. C., Street Impr.	290,909	Carbon Hill, Ohio, School	70,000
Rome, N. Y., Hospital Bldg.	525,000	Raleigh, N. C., Dormitories	323,636	Colerain Twp., Hamilton Co., Ohio,	
Roscoe, N. Y., School	405,000	Rocky Mount, N. C., School	87,250	School	27,273
Shelter Island, N. Y., Highway		Rural Hall, N. C., Water and Sew-		Centerville, Ohio, School	60,000
Bridges	3,638,181	erage System	72,727	Cadiz, Ohio, Waterworks	55,000
Steuken Co., N. Y., Highway Bridge		Rockwell, N. C., Waterworks and		Carey, Ohio, Sewerage	180,000
Spencer, N. Y., School Impr.	40,000	Sewerage System	80,000	Columbiana Co., Ohio, Schools	301,250
South Byron, N. Y., School	471,800	Raleigh, N. C., State College Bldgs.	408,200	Columbus, Ohio, University	145,454
Schenectady, N. Y., Storm Sewer	100,000	Randolph & Guilford Co., N. C.,		Clyde, Ohio, Electric Plant	154,000
Springville, N. Y., School	192,700	Sewage System	172,727	Carlisle Twp., Lorain Co., Ohio,	
Springwater, N. Y., School	275,000	Shelby, N. C., City Impr.	32,120	School	50,000
Sodus, N. Y., School	350,000	Sparta, N. C., Waterworks	56,909	Cambridge, Ohio, School Adds.	54,545
Spring Valley, N. Y., School	165,000	Sampson, N. C., School	78,100	Cleveland, Ohio, Schools	7,917,116
Schenectady, N. Y., Refuse Incin.		Thomasville, N. C., Recreation Cen-		Cleveland, Ohio, Power Plant Add.	1,680,000
Plant	165,000	ter	125,000	Cardington, Ohio, Shop Bldg. and	
Stockton, N. Y., School	433,961	Tarboro, N. C., Courthouse Add.	20,000	Add. to School	35,540
Staten Island, N. Y., Grade Crossing		Valdese, N. C., Streets	65,300	Chillicothe, Ohio, School	38,181
E. in.	2,136,000	Washington, N. C., Municipal Impr.	98,181	Cherry Fork, Ohio, School	64,336
Somerset, N. Y., School	375,000	Winterville, N. C., Waterworks	61,818	Centerville, Ohio, School	136,363
Stillwater, N. Y., Sewerage Sys.	90,000	Wake Co., N. C., Schools	250,000	Canton, Ohio, City Hall	800,000
Sodus, N. Y., School	350,000	Winston-Salem, N. C., Waterworks		Carroll Twp., Ottawa Co., Ohio,	
Smithtown, N. Y., Library Add.	40,000	Add.	135,000	School	70,909
Tioga Co., N. Y., School	300,000	Wilson, N. C., Library	63,636	Coventry Twp., Summit Co., Ohio,	
Utica, N. Y., Fire Station	32,000	Whiteville, N. C., Street Impr.	50,909	Mem. Hall	87,272
Utica, N. Y., School	448,749	Wilson, N. C., Municipal Bldg.	127,272	Columbiana Co., Ohio, School	198,750
White Plains, N. Y., Const. and		Wilson, N. C., Water Storage Tank		Columbiana Co., Ohio, School	146,670
Equip. Add., Sch. Bldg. and		and Sewerage Sys. Add.	595,000	Cincinnati, Ohio, Street Impr.	500,000
Grounds	700,000	Wilmington, N. C., Street Impr.	100,000	Canton, Ohio, Auditorium	500,000
Westbury, N. Y., Gymnasium	200,000	Wilmington, N. C., City Hall-Audi-		Chardon, Ohio, School	145,454
Weedsport, N. Y., Schools	275,000	torium Bldg. Repairs	104,610	Clay, Ohio, School	113,000
Warsaw, N. Y., Sewer System	81,150			Columbus, Ohio, Bridge	241,200
West Seneca, N. Y., School	59,000			Clark, Ohio, School Add.	16,500
Waterliet, N. Y., Waterworks	160,000			Cincinnati, Ohio, School	515,556
Watertown, N. Y., School	1,100,000			Cincinnati, Ohio, School	209,955
Wellsville, N. Y., School	210,909			Cincinnati, Ohio, School	700,000
Wiliston Park, N. Y., School	574,000			Cincinnati, Ohio, School	825,040
West Chester Co., N. Y., Schools	876,363			Cincinnati, Ohio, School	400,100
Wappingers Falls, N. Y., School	975,000			Cincinnati, Ohio, School	791,573
West Hempstead, N. Y., Impr. Water				Cincinnati, Ohio, Library	3,000,000
Supply System	107,145			Coalton, Ohio, School	42,500
West Chester Co., N. Y., Sewer	200,000			Champion Twp., Trumbull Co., Ohio,	
West Seneca, N. Y., School	59,000			School	50,000
Windsor, N. Y., School	150,000			Delphos, Ohio, School Bldg. Add.	55,000
Winchester, N. Y., School Bldg.	180,000			Doylestown, Ohio, School	160,000
White Plains, N. Y., Const. and				Dresden, Ohio, School	120,000
Equip. School Bldg.	600,000			Dover, Ohio, Bridge	223,636
West Schazy, N. Y., School	202,000			Dover, Ohio, School	454,545
Yonkers, N. Y., Sewerage Sys. Impr.	35,500			Eden Twp., Licking Co., Ohio, School	13,565
Yorktown, N. Y., Waterworks	40,000			Edenton, Ohio, School	29,090
Yorktown, N. Y., Waterworks	40,000			Edinburg, Ohio, School	65,674
Yonkers, N. Y., Impr. Water Supply				East Chicago, Ind., Univ. Bldg.	127,272
System	108,300			Elida, Ohio, School	130,909
Yonkers, N. Y., Sewer System	571,060			Eaton, Ohio, Waterworks	36,000
				Estes Park, Colo., School	104,545
				Elyria, Ohio, Waterworks	61,700
				East Village, Ohio, School Add.	227,000
				Eden, Ohio, School	110,909
				Euclid, Ohio, School	396,364
				Erie Co., Ohio, Sewerage System.	54,000
				Erie Co., Ohio, School Bldg.	70,000
				Fredericktown, Ohio, Sewerage	87,275
				Finnestown, Ohio, School	54,545
				Franklin Twp., Summit Co., Ohio,	
				School Add.	36,363
				Forest, Ohio, Waterworks	34,545
				Farfield, Ohio, School	50,000
				Fulton, Ohio, School	6,363
				Five Points, Ohio, School Bldg.	67,272
				Fallsbury Twp., Licking Co., Ohio,	
				School	17,750
				Fostoria, Ohio, School Bldg.	450,000
				Galion City, O., School	98,182
				Geneva, Ohio, Sewerage	105,000
				Greenwich, Ohio, Mun. Bldg.	33,636
				Galion, Ohio, City Hall	80,000
				Garfield Heights, Ohio, School Adds.	400,000
				Granville, Ohio, Schools	71,164
				Gibsonburg, Ohio, School	50,000
				Huntsville, Ohio, School	69,090
				Hiram, Ohio, School	45,455
				Hamersville, Ohio, School	53,000
				Hocking Co., Ohio, Highways	54,033
				Hilliards, Ohio, School	50,000
				Harrisburg, Ohio, School	70,000
				Hamilton Co., Ohio, School	88,275
				Hicksville, Ohio, School	115,500
				Howard, Ohio, School	85,000
				Ironton, Ohio, School	10,909
				Jackson Twp., Darke Co., Ohio,	
				School	69,091
				Jasper Mills, Ohio, School	60,000
				Jewell, Ohio, School Bldg.	80,000
				Kenton, Ohio, School	335,000
				Knox Co., Ohio, School	66,022
				Lucas, Ohio, School	90,000

NORTH DAKOTA

OHIO

Loudonville, Ohio, School Add.	214,545	South Solon, Ohio, Community Bldg.	25,454	La Grande, Ore., Highway Bridge ..	20,396
Lakemore, Ohio, Waterworks Sys.	117,000	Seneca Co., Ohio, Highway Impr.	133,000	La Grande, Ore., Dormitory Bldg.	70,909
Lakewood, Ohio, Breakwater	87,704	Scioto Co., Ohio, School Add.	40,000	Mololla, Ore., Street Impr.	14,360
London, Ohio, School Adds.	50,000	Sunbury, Ohio, School Add.	40,000	Madras, Ore., School	38,880
Lakemore, Ohio, Schools	150,000	Southington, Ohio, School	27,273	Marshfield, Ore., Bridge	91,491
Lake County, Ohio, Road Impr.	23,127	Tiffin Twp., Adams Co., Ohio, School	36,697	Newberg, Ore., School Add.	155,500
Lockbourne, Ohio, School	189,070	Tuscarawas and Stark Counties, Ohio, Schools	72,727	Nyssa, Ore., Street Impr.	18,000
Lucas County, Ohio, School Add.	49,410	Thurston Co., Wash., Highway Impr.	22,500	Ontario, Ore., School	50,000
Lancaster, Ohio, Courthouse	145,000	Toronto, Ohio, School	181,818	Portland, Ore., Bridge	120,000
Latham, Ohio, School	29,090	Tuscarawas, Ohio, Waterworks	49,000	Prairie City, Ore., School Alts.	8,325
Lorain, Ohio, Bridge	1,368,400	Tontognay, Ohio, School	62,000	Pendleton, Ore., School	55,700
Lafayette, Ohio, School	50,909	Toronto, Ohio, Waterworks Impr.	17,500	Reesport, Ore., School	16,474
Lorain, Ohio, Bridge	1,364,560	Toledo, Ohio, School	318,182	Roseburg, Ore., School	8,280
Mt. Pleasant, Ohio, School	45,454	Toledo, Ohio, Waterworks Impr.	3,299,500	Reedville, Ore., School	22,000
Middlefield, Ohio, School	27,273	Toledo, Ohio, Dormitory	134,545	Salem, Ore., County Courthouse	592,010
Maumee, Ohio, School	318,182	Toledo, Ohio, Schools	400,000	Sumpter, Ore., School	9,100
Marysville, Ohio, Sewer Impr.	50,000	Upper Arlington, Ohio, School	138,182	Tualatin, Ore., School	50,000
Marietta, Ohio, Waterworks	193,720	Union Co., Ohio, School	73,715	Umatilla Co., Ore., Highway Impr.	44,615
Mount Perry, Ohio, School	50,960	Union, Ohio, School	54,545		
Martins Ferry, Ohio, Library	60,000	Vernon, Ohio, School	32,727	PENNSYLVANIA	
Montgomery Twp., Ashland Co., Ohio, School	100,000	West Mansfield, Ohio, Waterworks	75,000	Adams, Pa., School Add. and Alter.	\$122,800
Mt. Gilead, Ohio, Swimming Pool	22,000	Wyandot Co., Ohio, Roads	25,000	Ambridge, Pa., Waterworks	143,740
Marietta, Ohio, Waterworks	325,455	Waverly, Ohio, Schools	35,460	Aliquippa, Pa., School	66,500
Mt. Orab, Ohio, School	36,363	Wauseon, Ohio, Sewerage	89,000	Ambridge, Pa., Street Impr.	33,106
Mansfield, Ohio, Schools	1,000,000	Wadsworth, Ohio, School	36,364	Ambler, Pa., School Bldg.	143,197
Mechanicsburg, Ohio, School	23,636	West Union, Ohio, School	71,900	Allentown, Pa., Sewage Impr.	132,425
Madison Twp., Pickaway Co., Ohio, School	10,909	Warren Town, Ohio, School	40,000	Allegheny Co., Pa., Highways	116,556
Madison, Ohio, School	24,660	West Farmington, Ohio, School	65,000	Allegheny Co., Pa., Highway Impr.	635,486
Morristown, Ohio, School	40,667	West Union, Ohio, School	34,545	Allegheny Co., Pa., Road Impr.	128,000
Massillon, Ohio, Schools	860,000	West Jefferson, Ohio, School	96,364	Allegheny Co., Pa., Schools	646,700
Martins Ferry, Ohio, School Add.	461,500	Wooster, Ohio, County Inst.	77,700	Allegheny Co., Pa., Highway	1,376,470
Meigs Twp., Adams Co., Ohio, School	63,636	Woodlawn, Ohio, School	31,095	Allegheny Co., Pa., School	428,300
Muskingum Twp., Washington Co., Ohio, School	30,000	Washington Co., Ohio, School	54,545	Bellefonte, Pa., School	120,000
Mentor, Ohio, School	145,454	West Jefferson, Ohio, Adds. & Impr. to Waterworks Sys.	14,500	Bushkill Center, Pa., School	97,852
Martel, Ohio, School	34,363	Whitehouse, Ohio, Schools	32,727	Boyetown, Pa., School Impr.	49,207
McArthur, Ohio, Courthouse	136,363	Waynesburg, Ohio, School Add.	39,000	Beaver Co., Pa., School	87,500
Mechanicsburg, Ohio, High School	125,000	W. Lafayette, Ohio, Municipal Bldg.	9,500	Bellefonte, Pa., County Home	231,970
McArthur, Ohio, School	83,636	Wooster, Ohio, School	94,545	Brockway, Pa., School	67,400
Marion, Ohio, School	750,000	Walhonding, Ohio, School	107,273	Bloomsburg, Pa., Courthouse Add.	75,000
Marion, Ohio, Hospital	87,273	Wooster, Ohio, School and Water Sup. and Sewage Dis. Plant	65,000	Blawnox, Pa., Municipal Bldg.	30,000
Mt. Pleasant, Ohio, Waterworks	67,500	Washington C. H., Ohio, Schools	340,000	Bradford, Pa., School	375,538
Marianna, Ohio, Courthouse Add.	50,000	Xenia, Ohio, School	69,091	Bloomsburg, Pa., Courthouse Add.	75,000
Morrow Co., Ohio, School Add.	38,182	Xenia, Ohio, Municipal Bldg.	105,000	Butler, Pa., Sewerage	216,500
Millersburg, Ohio, School Add.	38,000	Yorkville, Ohio, Waterworks	61,277	Bristol, Pa., High School	50,000
Morrow, Ohio, School	90,909	Youngstown, Ohio, Schools	1,772,727	Bradford, Pa., Waterworks Impr.	226,000
Mechanicsburg, Ohio, Library	10,000	York Twp., Union Co., Ohio, School	50,000	Chambersburg, Pa., Waterworks	18,000
New Haven, Ohio, School	7,000	Yorkville, Ohio, School Add.	127,850	Chambersburg, Pa., Sewer Sys.	263,000
Newark, Ohio, School	22,700	Youngstown, Ohio, Park Impr.	476,363	Clarion, Pa., School Bldg.	64,175
Newport, Ohio, School	21,818	Zanesville, Ohio, Schools	63,636	Conneaut, Pa., School Bldg.	27,000
Norwalk, Ohio, School	272,030			Coatesville, Pa., School	599,000
New Vienna, Ohio, Mun. Bldg.	30,909			Delaware Co., Pa., School	123,000
Newark, Ohio, Library	47,272			Doylestown, Pa., Waterworks	80,000
Nashville, Ohio, School	152,910			Delaware Co., Pa., Outfall Sewer	29,458
New Athens, Ohio, Waterworks Sys.	35,000			Dravosburg, Pa., Highway	250,070
Osnaburg Twp., Stark Co., Ohio, School	170,000			East Vincent Twp., Chester Co., Pa., School	81,800
Old Fort, Ohio, School Add.	130,000			Elizabethville, Pa., School Add.	46,958
Oxford, Ohio, School Add.	120,408			Elizabeth Twp., Allegheny Co., Pa., School	279,400
Ottawa Co., Ohio, School Bldgs.	124,780			East Greenville, Pa., Waterworks	64,000
Oxford, Ohio, Dormitories	600,000			Ebensburg, Pa., School	139,870
Oxford, Ohio, School	116,063			Fairhope, Pa., School	73,723
Ottawa, Ohio, School	69,090			Forty Five, Pa., Sewer System	68,232
Oliver, Ohio, School	29,000			Fredonia, Pa., School	94,074
Plattsburg, Ohio, School	50,000			Granville, N. Dak., School	21,200
Powhatan Point, Ohio, Waterworks	100,000			Gouldsboro, Pa., School	29,600
Piketon, Ohio, School	188,181			Greene Co., Pa., School	337,770
Port Clinton, Ohio, Stadium	25,455			Greenburg, Pa., School	53,555
Perry Twp., Wood Co., Ohio, School	36,364			Girard, Pa., School Add.	29,977
Port Homer, Ohio, School	45,454			Grundy, Va., School	273,600
Prairie Twp., Holmes Co., Ohio, School	45,050			Greensburg, Pa., Sewerage System	21,870
Piqua, Ohio, School	30,000			Greensburg, Pa., Sewer	31,806
Pierpont, Ohio, School	20,000			Harmony, Pa., School	74,860
Peebles, Ohio, School	22,727			Hanover, Pa., Waterworks Add.	83,637
Pemberville, Ohio, School	80,000			High Spire, Pa., High School	85,224
Rootstown, Ohio, School	83,636			Homestead, Pa., School	568,000
Ripley, Ohio, Waterworks	68,273			Hanover, Pa., Waterworks Add.	64,000
Ross Twp., Butler Co., Ohio, School	201,570			Hickory, Pa., School	142,458
Ridgeville Corners, Ohio, School	90,000			Hampton Twp., Allegheny Co., Pa., School	59,070
Ravenna, Ohio, Courthouse-Jail	181,818			Independence, Pa., School Add. and Impr.	91,202
Ross County, Ohio, School	160,000			Jeannette, Pa., Drainage	27,606
Ross Co., Ohio, School Adds.	36,662			Jacksonwald, Pa., School	119,700
Ross Co., Ohio, School Add.	70,000			Kulpmont, Pa., School Add.	83,637
Raymond, Ohio, School	75,000			Knauertown, Pa., School	29,520
Somerton, Ohio, School	65,000			Lebanon, Pa., Athletic Field Impr.	112,089
Sylvania, Ohio, Waterworks	29,091			Lower Burrell Twp., Westmoreland Co., Pa., School	50,410
South Amherst, Ohio, School Add.	40,000			Leetsdale, Pa., High School	71,000
Sandusky, Ohio, Courthouse Add.	130,000			Luzerne, Pa., School Bldg.	160,660
Staubenville, Ohio, Sewerage	725,455			Millersville, Pa., Waterworks	134,671
Somerford, Ohio, School	35,454			Marcus Hook, Pa., Municipal Bldg.	96,380
Sardinia, Ohio, School	66,433			Millertown, Pa., School	70,000
Staunton Twp., Miami Co., Ohio, School	40,000			Media, Pa., Sewer Sys. Alt.	63,635
Shawnee, Ohio, School	44,000			Mahanoy City, Pa., School	321,000
Salem, Ohio, School	80,000			Mansfield, Pa., Add. and Alt. to H. S. Bldg.	90,954
Sandusky, Ohio, Waterworks	820,000			Meadville, Pa., Schools	257,500
Scioto Co., Ohio, School	125,454			Montgomery Co., Pa., Incinerator	106,999
Sugar Creek, Ohio, Waterworks	13,000			Millvale, Pa., Highways	169,000
Summit Co., Ohio, Schools	160,000			McKeesport, Pa., School	211,000
Steubenville Twp., Jefferson Co., Ohio, School	18,000			McKean, Pa., School	38,250
Steubenville, Ohio, Courthouse and Jail	1,000,000			Mt. Carmel, Pa., School Add.	360,000
St. Henry, Ohio, School	95,454			New Hope, Pa., School	35,000
Smithville, Ohio, Waterworks	67,273			Nescopeck, Pa., School	58,350
				New Milford, Pa., School	13,000

PENNSYLVANIA

OKLAHOMA

OREGON

North Belle Vernon, Pa., Street Impr.	74,000
North Bessemer, Pa., Sewer System	56,400
New Oxford, Pa., School	56,358
New Kensington, Pa., Incinerator	91,812
Oakmont, Pa., Street Impr.	280,600
Ontelaunee, Pa., School Bldg.	35,810
Philadelphia, Pa., School Impr.	1,457,000
Philadelphia, Pa., School	762,000
Philadelphia, Pa., School	762,000
Philadelphia, Pa., Schools	341,000
Philadelphia, Pa., Schools	170,000
Pittsburgh, Pa., Ext. Sewerage Sys.	1,671,401
Pittsburgh, Pa., School Bldg.	543,860
Pittsburgh, Pa., Adds. and Alt. School Bldg.	508,289
Pittsburgh, Pa., Munic. Playgrounds	190,515
Pittsburgh, Pa., Remodel and Equip. Zoo Bldgs.	253,885
Pittsburgh, Pa., School Bldg.	544,940
Pittsburgh, Pa., School Bldg.	408,125
Pittsburgh, Pa., Const. Bathhouses and Swimming Pools	591,241
Pittsburgh, Pa., Const. Bath and Field Houses and Water Purification Facil.	187,448
Pittsburgh, Pa., Ret. Walls and Steps	242,123
Pittsburgh, Pa., Bridges	147,000
Pittsburgh, Pa., Waterworks Impr.	100,000
Pittsburgh, Pa., Highway Bridge	314,879
Pittsburgh, Pa., Waterworks	599,625
Pittsburgh, Pa., Field Houses	184,367
Pittsburgh, Pa., School	500,694
Pittsburgh, Pa., School	614,420
Pittsburgh, Pa., School	231,090
Pittsburgh, Pa., School	100,178
Pittsburgh, Pa., Sewerage Sys.	1,561,940
Pittsburgh, Pa., Waterworks Ext.	472,640
Pittsburgh, Pa., Bridge	772,000
Pittsburgh, Pa., Bridge Repairs	78,100
Pittsburgh, Pa., Highway	1,500,000
Pittsburgh, Pa., School	210,759
Pittsburgh, Pa., Bridge Alt.	192,000
Pittsburgh, Pa., Paving	859,200
Pittsburgh, Pa., Street Impr.	195,019
Pittsburgh, Pa., School	1,790,000
Patton Twp., Allegheny Co., Pa., School	105,000
Pittston, Pa., City Hall	125,922
Pennsylvania, State of, Garage Bldgs.	1,149,450
Pa., State of, Turnpike	58,000,000
Porter, Pa., School Bldg.	47,750
Rairhope, Pa., School	73,723
Reading, Pa., Field House and Rec. Bldg.	26,087
Reading, Pa., Field House and Rec. Bldg.	23,035
Red Lion, Pa., School	87,693
Ross Twp., Allegheny Co., Pa., School	78,331
Schuylkill, Butler, Luzerne, Bradford, Montgomery, Greene, Potter, Beaver and Adams Co's., Pa., Garage Bldgs.	1,384,464
Shickshinny, Pa., School	127,270
Southmont, Pa., School Add.	78,810
Scranton, Pa., Sewerage System	28,655
Sharon, Pa., Sewerage System	410,000
Strattanville, Pa., School	17,000
Stroudsburg, Pa., Ext. Sewerage Sys.	128,172
Titusville, Pa., Street Impr.	80,400
Troy, Pa., School	32,431
Tamaqua, Pa., Waterworks	150,000
Troy, Pa., School	74,500
Uniontown, Pa., Sewage Impr.	556,100
Upper Burrell Twp., Westmoreland Co., Pa., School	36,900
Upper Augusta, Pa., School	27,265
Versailles, Pa., School	85,400
Whitely Twp., Green Co., Pa., School	49,840
Westmoreland Co., Pa., School	40,000
Wanamie, Pa., Grand Stand	27,000
Windber, Pa., School Add.	57,400
W. Springfield, Pa., School	76,250
Washington, Pa., Viaduct	227,849
Warren, Pa., Schools	62,000
Weatherly, Pa., Power Plant Add.	59,300
Wilton, Pa., School	40,567
Williamsburg, Pa., Sewer Sys.	93,480
West Mead, Pa., School	84,854
Williamsburg, Pa., County Home	89,000
Williamstown, Pa., Borough Hall	18,076
Yeadon, Pa., School	272,727
Zelienople, Pa., Sewer Plant Add.	38,760

RHODE ISLAND

East Smithfield, R. I., Waterworks Impr.	\$17,400
East Greenwich, R. I., High School	250,000
East Smithfield, R. I., Waterworks Impr.	17,400
Howard, R. I., Prison Impr.	30,000
Johnston, R. I., Municipal Bldg.	60,000
Johnston, R. I., High School	350,000
Narragansett, R. I., Waterworks	465,294
North Providence, R. I., Sewer Sys.	1,349,624

Providence, R. I., Wharf and Sea Wall	2,000,000
Providence, R. I., Municipal Impr.	81,900
Providence, R. I., Laundry Impr.	59,000
Providence, R. I., Waterworks	969,732
Providence, R. I., Athletic Field	200,000
Pawtucket, R. I., Municipal Impr.	815,000
Providence, R. I., Fire Station	123,000
Providence, R. I., Athletic Field	200,000
Pawtucket, R. I., Waterworks	400,000
Pawtucket, R. I., School	760,800
West Warwick, R. I., Bridge	175,000
Warren, R. I., Firehouse	10,000

SOUTH CAROLINA

Anderson Co., S. C., Highway Impr.	\$472,727
Bowman, S. C., Waterworks	35,092
Beaufort Co., S. C., Bridge	516,210
Chester, S. C., Streets	143,700
Columbia, S. C., Audit-Gym.	48,900
Charleston, S. C., Warehouse	158,418
Charleston Co., S. C., Schools	254,745
Columbia, S. C., Street Impr.	1,342,000
Columbia, S. C., Market Shed	52,000
Clinton, S. C., Street Impr.	50,000
Columbia, S. C., Hospital Laboratory	145,455
Clinton, S. C., Gymnasium	109,090
Charleston, S. C., Audit-Gym. Bldg.	113,000
Charleston, S. C., Audit-Gym. Bldg.	247,450
Darlington, S. C., Library Add.	14,545
Eau Claire, S. C., Sewerage Works	200,000
Fountain Inn, S. C., School	65,205
Fort Mill, S. C., Street Impr.	173,537
Greenville, S. C., Sewerage	1,022,497
Greenville, S. C., Streets	200,000
Greenwood, S. C., County Office Bldg. Add.	30,000
Greenville, S. C., Nurses' Home	74,801
Greenville, S. C., Hospital Add.	125,049
Johnsonville, S. C., Waterworks	30,909
Loris, S. C., Sanitary Sewer	58,181
Lancaster Co., S. C., Road Impr. and Bridge	250,000
Marion, S. C., County Bldgs.	65,000
Ninety Six, S. C., Street Impr.	26,000
Newberry, S. C., Street Impr.	190,000
Newberry, S. C., Fire Alarm System	28,000
Newberry Co., S. C., Road Impr.	205,454
Rock Hill, S. C., Hospital Bldgs.	309,091
Richland Co., S. C., Road Impr.	386,110
Rock Hill, S. C., Waterworks, Add.	94,356
Sycamore, S. C., Waterworks	10,909
Sumter, S. C., School Add.	178,295
Simpsonville, S. C., Auditorium-Gymnasium and School Add.	50,909
Sumter, S. C., Street Impr.	80,000
Union, S. C., Waterworks	275,200

SOUTH DAKOTA

Brookings, S. Dak., Street Impr.	\$92,888
Plankinton, S. Dak., Vocational Bldg.	9,090
Freeman, S. Dak., Power Plant	106,000
Gettysburg, S. Dak., Hospital	40,000
Howard, S. Dak., Streets	32,727
Monroe, S. Dak., School	40,000
Nisland, S. Dak., Waterworks	20,909
Oak Lawn Twp., S. Dak., School	5,000
Parker, S. Dak., School	67,272
Parker, S. Dak., School	67,272
Pennington Co., S. Dak., Waterworks Impr.	529,314
Sioux Falls, S. Dak., Street Impr.	155,455
Salem, S. Dak., School Repairs	4,500
Thomas, S. Dak., School	14,545
Yankton, S. Dak., Waterworks	63,636

TENNESSEE

Alcoa, Tenn., School	\$106,136
Anderson Co., Tenn., Schools	181,537
Bruceston, Tenn., Sewerage System	47,272
Chattanooga, Tenn., Municipal Bldg.	229,630
Covington, Tenn., Penal Farm	63,600
Carthage, Tenn., Sewerage System	30,909
Chattanooga, Tenn., Schools	783,688
Covington, Tenn., Courthouse	200,000
Clarksville, Tenn., Fire Station	21,200
Chattanooga, Tenn., Parks Impr.	70,000
Chattanooga, Tenn., Gym. and Add. Sch.	114,632
Dickson, Tenn., Swimming Pool	60,000
Erin, Tenn., Waterworks Impr.	47,273
Fayetteville, Tenn., Jail	76,105
Gallatin, Tenn., Courthouse-Jail	175,000
Greene Co., Tenn., Schools	312,727
Gallatin, Tenn., Sewage Treat. Pl.	150,000
Hohenwald, Tenn., Sewage	40,000
Holston Valley, Tenn., School Bldg.	32,369
Hartsville, Tenn., Sewers	41,818
Huntington, Tenn., Sewer System	45,455
Jackson, Tenn., School	117,842
Knoxville, Tenn., Waterworks	200,000
Knoxville, Tenn., Univ. Bldg.	370,909
Lincoln Co., Tenn., Schools	35,950

Lipscomb Co., Tex., Street Impr.	65,000
Lebanon, Tenn., Courthouse	200,000
Loudon, Tenn., Hospital	55,000
Memphis, Tenn., School	143,327
Memphis, Tenn., Street Impr.	102,752
Memphis, Tenn., Street Impr.	119,671
Memphis, Tenn., Street Impr.	196,322
Memphis, Tenn., Street Impr.	232,410
Memphis, Tenn., Drainage Structures	362,411
Memphis, Tenn., Street Impr.	123,393
Memphis, Tenn., Street Impr.	136,484
Memphis, Tenn., School	93,722
Memphis, Tenn., School	45,976
Memphis, Tenn., School Add.	66,785
Memphis, Tenn., School	48,933
Memphis, Tenn., School	94,500
Memphis, Tenn., Dormitory Bldg.	147,273
Memphis, Tenn., Auditorium	27,233
Memphis, Tenn., Streets	357,412
Murfreesboro, Tenn., Courthouse	300,000
Murfreesboro, Tenn., School	369,680
Madisonville, Tenn., High School Bldg.	77,272
Nashville, Tenn., Schools	2,894,545
Nashville, Tenn., State Bldg.	136,363
Nashville, Tenn., State Office Bldg.	909,090
Putnam Co., Tenn., Schools	310,909
Petersburg, Tenn., School	74,545
Red Bank, Tenn., School	90,000
South Fulton, Tenn., Impr. Waterworks System	87,272
Stanton, Tenn., School	5,442
Shelbyville, Tenn., School	300,000
Sparta, Tenn., County Jail	36,360
Tellico Plains, Tenn., School Bldg.	110,909
Union City, Tenn., Courthouse	125,000
Waynesboro, Tenn., Waterworks Sys.	40,000
Washington County, Tenn., Schools	818,182
Woodbury, Tenn., Sewer	41,363

TEXAS

Amarillo, Tex., Hospital Bldg.	\$250,909
Adrian, Tex., School Bldg.	41,818
Austin, Tex., Dormitory	103,636
Angleton, Tex., Highway Bridge	227,272
Austin, Tex., Water and Light Impr.	350,000
Alpine, Tex., Dormitory	150,909
Atlanta, Tex., Waterworks-Sewerage	109,090
Anton, Tex., Community Bldg.	13,636
Addicks, Tex., Schools	100,000
Austin, Tex., Museum Bldg.	1,025,000
Austin, Tex., Fire Alarms	75,000
Aubrey, Tex., Waterworks Sys.	29,600
Austin, Tex., Munic. Incinerator	125,000
Big Lake, Tex., Gas Trans.	28,182
Bellaire, Tex., Audit-Gym. Bldg.	17,657
Big Spring, Tex., Waterworks Impr.	500,000
Barstow, Tex., Waterworks Sys.	56,000
Bellville, Tex., School	128,889
Borger, Tex., Athletic Field	18,181
Burleson Co., Tex., Fence removed and Highway Constructed	13,700
Bee Ct., Tex., Road Impr.	180,000
Beckville, Tex., Waterworks	26,363
Bee County, Tex., Road Impr.	135,000
Burleson, Tex., Sewage System	23,636
Cuero, Tex., School Add.	31,000
Canyon, Tex., Library	180,000
Center, Tex., School Bldg.	185,000
Crawford, Tex., Water Supply	3,500
Commerce, Tex., College Bldg.	240,000
Cushing, Tex., Waterworks	60,000
Crosbyton, Tex., Waterworks	13,636
Childress, Tex., Court House Add.	60,000
Caddo Mills, Tex., Waterworks	32,727
Dallas, Tex., School Bldg.	657,500
Daingerfield, Tex., Waterworks Add.	67,272
Denton, Tex., College Dormitories	572,727
El Paso, Tex., Hospital Bldg.	54,545
El Paso, Tex., Waterworks Sys.	74,545
El Paso, Tex., Courthouse	13,440
El Paso, Tex., Co. Roads	175,000
El Paso, Tex., Courthouse Add.	35,050
East Bernard, Tex., School	80,000
El Paso Co., Tex., Waterworks	14,545
El Paso, Tex., Bridges	9,090
Eldorado, Tex., Sewerage Sys.	105,454
El Paso, Tex., Nurses' Home	45,454
El Paso, Tex., Courthouse Alt.	52,727
El Paso, Tex., Swim. Pool and Bath House	30,700
Eagle Lake, Tex., Gym.	11,818
Fort Worth, Tex., Viaduct	85,000
Fort Worth, Tex., Street Impr.	107,272
Fort Bend Co., Tex., Road Impr.	307,000
Farwell, Tex., School	16,000
Galena Pk., Tex., School	89,700
Greenville, Tex., Municipal Bldg.	177,777
Galveston, Tex., Pavements	60,000
Galveston Co., Tex., Paving	30,000
Garrison, Tex., Waterworks Sys.	34,545
Haskell, Tex., Hospital	100,000
Hamlin, Tex., Waterworks Sys.	145,454
Highland Pk., Tex., Munic. Impr.	21,320
Hebronville, Tex., School	100,000
Hallsville, Tex., Waterworks	45,454
Hermleigh, Tex., Audit-Gym. Bldg.	26,363

Hardin Co., Tex., Highways	1,594,000
Hebbronville, Tex., Courthouse Add.	74,545
Houston, Tex., Athletic Field	75,000
Houston, Tex., Rec. Center	591,000
Huntsville, Tex., Dormitory and Home Econom. Bldg.	129,090
Houston, Tex., Waterworks	1,000,000
Houston, Tex., Highways	44,000
Houston, Tex., Street Impr.	161,767
Houston, Tex., Public Wharf	167,500
Houston, Tex., Street Impr.	900,000
Houston, Tex., Street Impr.	30,000
Houston, Tex., Univ. Bldg.	278,600
Hubbard City, Tex., Municipal Bldg.	16,000
Iowa Park, Tex., Waterworks	40,000
Johnson County, Tex., Bridges	10,000
Kossee, Tex., Waterworks and Sewerage Sys.	61,818
Kilgore, Tex., Streets	300,000
Lefors, Tex., Waterworks	76,363
La Porte, Tex., County Court House	18,884
Lake Dallas, Tex., Teacherage and Garage	4,545
Livingston, Tex., Fire Station-City Hall	35,000
Livingston, Tex., Jail	70,000
Levelland, Tex., School Adds.	49,090
Lamesa, Tex., Gym. Bldg. and Bleachers	35,750
Lampasas, Tex., Audit.-Gym. Bldg.	49,090
Lubbock, Tex., Courthouse	20,000
Ladonia, Tex., Gymnasium	15,000
Liberty County, Tex., Street Impr.	142,250
La Grange, Tex., Gym., Auditorium and Alt.	30,000
Lovelady, Tex., Treatment Plant	6,363
Lubbock, Tex., School	350,909
Longview, Tex., College Bldgs.	256,364
Mt. Pleasant, Tex., Waterworks	56,363
Mt. Pleasant, Tex., Gym. and School Add.	45,000
Morgan, Tex., Auditorium-Gym.	22,200
Melvin, Tex., School Gym. and Athletic Field Ltg.	24,545
Memphis, Tex., School Add.	30,909
Nueces Co., Tex., Co. Highway Impr.	1,020,000
Olton, Tex., Flood Lighting	2,727
Oakwood, Tex., Waterworks and Sewerage Sys.	59,365
Orange, Tex., School Bldg.	100,000
Omaha, Tex., Waterworks	32,727
Pilot Point, Tex., Waterworks	27,272
Port Arthur, Tex., Highway Impr.	745,454
Paris, Tex., Gym. and Sch. Alt.	50,909
Prosper, Tex., Waterworks	18,181
Port Arthur, Tex., Street Impr.	34,120
Palestine, Tex., Aud. Gymnasium	75,000
Pecos, Tex., Storm and Sewerage Systems Add.	100,000
Plainview, Tex., Agriculture Bldg.	27,300
Petrolia, Tex., Waterworks	49,090
Pecan Gap, Tex., Sewerage Sys.	21,818
Rosedale, Tex., School	48,000
Rocksprings, Tex., School	25,454
Raymondville, Tex., School	15,000
Rankin, Tex., Waterworks	40,000
Rio Grande, Tex., Courthouse Impr.	115,124
Rhome, Tex., Waterworks Sys.	25,454
Sinton, Tex., Hospital	16,000
Stockdale, Tex., Gas Trans.	39,090
Smithville, Tex., Waterworks	185,454
Sweetwater, Tex., Street	180,000
Seminole, Tex., Waterworks	37,000
Sterling City, Tex., Courthouse	100,000
Schulenberg, Tex., Gym.-Audit.	50,909
Taylor, Tex., Waterworks Impr.	17,600
Trenton, Tex., Waterworks Sys. and Acq. of Land	27,272
Tyler, Tex., Street Imp.	330,909
Tyler, Tex., Public Market	25,454
Troup, Tex., City Hall	11,818
Tatum, Tex., Waterworks Sys.	23,636
Tenaha, Tex., Waterworks	38,182
Tyler, Tex., Fire Station	40,000
Tyler, Tex., Public Park	12,727
Texas City, Tex., School	225,000
Victoria, Tex., Waterworks	73,920
Valley Mills, Tex., City Hall Add.	11,851
Victoria, Tex., Streets	360,000
Vernon, Tex., Munic. Audit. and Incinerator and Storm Sewers	258,181
Wharton Co., Tex., Roads	1,384,300
Winters, Tex., School	14,545
Walker Co., Tex., Bridges	100,000
Wheeler, Tex., Sewer System	96,363
Wortham, Tex., School	12,727
Waco, Tex., Courthouse	600,000
Yoakum, Tex., Alt. Sch. Bldg.	17,272

UTAH

Amalga, Utah, Waterworks	\$44,822
Blanding, Utah, Waterworks Impr.	45,454
Beaver Co., Utah, Sch. Bldg. Impr.	160,000
Brigham City, Utah, School	123,425
Castle Dale, Utah, Courthouse	50,000
Clarkston, Utah, Waterworks Sys.	35,000

Central Park, Utah, Sewerage	304,272
Cedar City, Utah, School Bldg.	227,000
Castle Dale City, Utah, Impr. Waterworks	7,000
Cache Co., Utah, Audit. and Gym.	210,000
Davis Co., Utah, Gym. Add.	150,000
Ferron, Utah, Waterworks	25,454
Helper City, Utah, Waterworks Impr.	114,545
Monti, Utah, Elec. Plant	75,297
Nephi, Utah, Mech. Arts and Gym. Bldg.	90,000
Ogden, Utah, Waterworks	75,000
Ogden, Utah, School	167,867
Ogden, Utah, County Bldg.	600,000
Park City, Utah, School Bldgs. and Impr.	15,000
Park City, Utah, Community Bldg.	94,700
Payson, Utah, School	87,235
Pleasant Grove, Utah, City Hall	20,000
Providence, Utah, Water Sys.	78,181
Roy, Utah, Waterworks	169,090
Salt Lake City, Utah, Boys' Detention Home Impr.	36,363
Salt Lake Co., Utah, Gymnasium-Aud. and School	238,181
Smithfield City, Utah, Waterworks	30,000
Sigurd, Utah, Waterworks	40,000
Tooele Co., Utah, School Bldgs.	150,000
Utah Co., Utah, Schools	80,000

VERMONT

Arlington, Vt., Highway	\$7,272
Alburling, Vt., School	63,636
Burlington, Vt., Street Impr.	38,182
Burlington, Vt., School	225,454
Brookline, Vt., Bridge	12,727
Brandon, Vt., Schools	40,000
Essex, Windham, Caledonia, Orleans, Rutland Counties, Vt., Highway Bridges	143,342
Fairhaven, Vt., Bridge	10,000
Guilford, Vt., Bridge	12,727
Hubbardton, Vt., Bridges	11,818
Montpelier, Vt., Street Impr.	60,000
Middlebury, Vt., Street Impr.	240,000
Norwich, Vt., Townhall	49,090
Northfield, Vt., School	167,272
Pawlet, Vt., Bridge	9,454
St. Johnsbury, Vt., School	400,000
State of Vermont, Bridges	121,275
State of Vermont, Bridges	74,883
Tinmouth, Vt., Bridges	8,545
Vermont, State of, Bridge	170,000
Woodstock, Vt., School	586,818
Woodstock, Vt., Bridges	54,545
Windsor, Vt., Add. Sch. Bldg.	285,454
Windham Co., Vt., Highway	110,909
Winooski, Vt., School	67,000

VIRGINIA

Albemarle Co., Va., Hospital Add.	\$136,000
Arlington Co., Va., Schools	350,000
Appomattox, Va., Mun. Bldg.	23,852
Amherst Co., Va., School	136,000
Appomattox, Va., School	85,000
Blackstone, Va., Sewerage and Waterworks	60,000
Blacksburg, Va., College Bldgs.	1,622,728
Botetourt Co., Va., School	90,000
Buckingham, Va., Sch. Bldg.	90,000
Broadway, Va., Sewage Sys.	34,545
Burkeville, Va., Hospital	171,246
Buckroe Beach, Va., School	58,640
Charlotte Courthouse, Va., County Bldg. Add.	7,755
Clarksville, Va., Waterworks Impr.	21,400
Catawba, Va., Hospital Bldgs.	202,272
Charlotte Courthouse, Va., Schools	225,000
Chancellor, Va., School	37,700
Charlottesville, Va., Univ. Bldg.	136,363
Charlottesville, Va., School	100,000
Carysbrook, Va., School	50,000
Creeds, Va., School	71,000
Charlottesville, Va., School	517,700
Dinwiddie, Va., School	40,000
Dumfries, Va., School Alter.	50,000
East Radford, Va., College Bldg.	310,909
Front Royal, Va., School	313,000
Farmville, Va., Courthouse-Jail	112,625
Floyd Co., Va., Schools	287,000
Fairfax Co., (D. C.) Va., Waterworks and Sewage Treatment Plants	300,000
Farmville, Va., School	88,800
Fredricksburg, Va., Ad. Bldg.	250,909
Farnham & Warsaw, Va., Cottages, School and School Add.	77,000
Farmville, Va., Dorm. Bldg.	87,272
Fairfax Co., Va., Schools	375,550
Fredricksburg, Va., Water Treat. Plant	113,000
Farmville, Va., Library	130,000
Front Royal, Va., Sewage	55,000
Fredricksburg, Va., College Bldg.	150,000
Greenwood, Va., School	35,000
Hampton, Va., City Hall	54,545

Hanover Co., Va., Schools	80,000
Harrisonburg, Va., College Bldg.	60,000
Hampton, Va., Stadium	35,000
Hampton, Va., School	57,600
Henry Co., Va., Schools	32,000
Hampton, Va., School	108,800
Harrisonburg, Va., College Bldg.	140,000
Herdon, Va., Municipal Bldg.	28,730
King George, Va., School	50,000
Lynchburg, Va., Street Impr.	83,500
Lawrenceville, Va., Courthouse Add.	40,000
Lee Co., Va., Schools	115,000
Lexington, Va., Elec. Power Plant	366,000
Louisa, Va., Schools	120,000
Loudoun Co., Va., School	35,400
Mt. Jackson, Va., School	66,000
Martinsville, Va., Municipal Bldg.	51,000
Martinsville, Va., Armory and Community Bldg.	80,000
McDowell Co., Va., Schools	204,000
Montgomery Co., Va., School	50,000
Martinsville, Va., Incinerator	28,290
New Market, Va., School	26,584
Norfolk, Va., School	500,000
Petersburg, Va., Dormitory	155,000
Pulaski Co., Va., Schools	125,000
Phoebus, Va., School Impr.	41,052
Patrick Co., Va., Schools and School Add.	250,000
Pearisburg, Va., School	132,000
Prince Edward Co., Va., Schools	90,000
Phoebus, Va., Municipal Bldg.	70,909
Pittsylvania Co., Va., School	211,300
Pittsylvania Co., Va., School	264,700
Portsmouth, Va., School	28,000
Petersburg, Va., Const. Garage and Water Tank and Remodel Munic. Bldgs.	59,000
Portsmouth, Va., School	125,844
Roanoke, Va., Bridge	331,700
Roanoke Co., Va., School Bldg. and Add.	169,300
Richmond, Va., School	115,000
Richmond, Va., Street Impr.	77,000
Roanoke Co., Va., Schools	442,700
Richmond, Va., Street Impr.	149,000
Richmond, Va., Const. of Ext. and Add. to Sewer Mains	59,000
Richmond, Va., Street Impr. and Appurtenances	157,000
Richmond, Va., Street Impr.	297,000
Richmond, Va., Deep Water Term.	1,750,000
Richmond, Va., Hospital	1,956,941
Rich Square, N. C., Waterworks and Sewerage Sys.	103,636
Riner, Va., School	99,500
Rustburg, Va., Courthouse Impr.	32,000
Suffolk, Va., School	45,000
Spotsylvania Courthouse, Va., School	134,200
Sussex Co., Va., Gym., Cottages, Shop and School Add.	65,000
Strasburg, Va., School	71,500
Saluda, Va., School Bldg.	30,000
Staunton, Va., Sewer and Sewage Treat. Plant	244,000
Virginia, State of, Hospitals	433,820
Williamsburg, Va., School Bldg.	60,000
Washington Co., Va., Schools	38,500

WASHINGTON

Albion, Wash., Waterworks	\$14,500
Bellingham, Wash., Dock Impr.	67,000
Bremerton, Wash., Garage	31,000
Bremerton, Wash., Fire Station	27,000
Cle Elum, Wash., City Hall	16,000
Cheney, Wash., Library	274,394
Cheney, Wash., Library	274,394
Colville, Wash., School Bldg.	21,000
Clarke Co., Wash., Highway Impr.	60,000
Everett, Wash., Schools	390,000
Edwall, Wash., School Audit. Bldg.	37,700
East Stanwood, Wash., School Bldg. Add.	60,000
Edmonds, Wash., School	250,000
Highline, Wash., High School	172,000
King Co., Wash., Roads	31,052
King Co., Wash., Roads	36,400
King Co., Wash., Highways	32,266
King Co., Wash., Roads	30,034
King Co., Wash., Roads	27,400
King Co., Wash., Airplane Hangar	112,000
King Co., Wash., Highway Impr.	89,616
King Co., Wash., Highway Impr.	26,280
King Co., Wash., Highway Impr.	51,500
King Co., Wash., Highway Impr.	29,000
King Co., Wash., Highway Impr.	25,200
King, Wash., Highway Impr.	31,881
King, Wash., Highway Impr.	117,368
King Co., Wash., Highway Bridge	3,450,000
King Co., Wash., Highway Impr.	126,000
King Co., Wash., Highway Impr.	42,500
King Co., Wash., Highway Impr.	31,300
Klickitat Co., Wash., Highway Impr.	44,000
Kelso, Wash., Courthouse Bldg.	228,181
Lincoln Co., Wash., Highway Impr.	147,000
Lincoln, Wash., Road Impr.	140,000

Lake Burien, Wash., Add. and Alt. to School	24,500
Long View, Wash., Schools	258,000
Lake City, Wash., Add. and Alt. to School	33,658
Monroe, Wash., School	134,091
Olympia, Wash., Capitol Bldg. Impr.	200,000
Olympia, Wash., Armory	150,000
Olympia, Wash., Office Bldg. Impr.	1,082,727
Pierce Co., Wash., Highway Impr.	55,673
Pullman, Wash., School	75,000
Reardon, Wash., School	69,800
Republic, Wash., Jail	10,885
Seattle, Wash., Viaduct	230,000
Seattle, Wash., Add. to Pier	610,000
Seattle, Wash., Highway Impr.	28,800
Sedro-Woolley, Wash., School	40,700
Sultan, Wash., School	65,000
Sunnydale, Wash., Adds. and Alt. School Bldg.	63,000
South Bend, Wash., School Bldg.	18,900
Tachonish, Wash., School	154,545
Tacoma, Wash., Waterworks System	1,566,000
Tacoma, Wash., Adds. and Alt. to Armory	100,000
Tacoma, Wash., Highway Bridge	6,000,000
Tacoma, Wash., Street Impr.	54,710
Tacoma, Wash., Sewer System	630,909
Tilton, River, Wash., Bridge	28,000
Washington, State of, Hgwy. Impr.	270,000
Washington, State of, Hgwy. Impr.	238,000
Washington, State of, Hgwy. Bldgs.	239,300
Washington, State of, Hgwy. Impr.	53,000
Washington, State of, Highway Bldgs. and Add.	102,400
Washington, State of, Hgwy. Impr.	305,000
Wilbur, Wash., School	59,140
Whitcom Co., Wash., Highway Impr.	38,000
Whitman Co., Wash., Highway Impr.	213,596
Winthrop, Wash., School Add.	50,000
White Salmon, Wash., School Impr.	70,000
Yakima Co., Wash., Highway Impr.	118,000
Yakima Co., Wash., Road Impr.	71,000
Yakima Co., Wash., Bridge	120,000

WEST VIRGINIA

Beckley, W. Va., Sewerage	\$500,000
Berkeley Springs, W. Va., School	194,500
Charleston, W. Va., Sewerage	290,909
Cabell Co., W. Va., Schools	1,244,508
Charleston W. Va., Fire Station	181,818
Charleston, W. Va., Streets	1,250,909
Glenville, W. Va., Co. Garage and Jail	50,909
Huntington, W. Va., Hospital Water Tank	5,000
Hancock Co., W. Va., Schools	570,909
Hartford City, W. Va., Waterworks	34,728
Mingo Co., W. Va., Schools	263,636
Mason Co., W. Va., Schools	260,000
Ohio County, W. Va., School Impr.	130,000
Ohio Co., W. Va., School Add.	394,572
Parkersburg, W. Va., Waterworks Impr.	74,545

Summersville, W. Va., School	54,545
Union, W. Va., School	47,273
Wellsburg, W. Va., School	34,525
Wheeling, W. Va., Fire Station	29,091
Williamson, W. Va., Co. Building ..	205,454

WISCONSIN

Alma, Wis., City Hall-Fire Sta.	\$60,000
Arcadia, Wis., Elec. Plant	28,000
Ashland, Wis., Sewerage Add.	250,000
Abbotsford, Clark and Marathon Cos., Wis., School Alt.	62,240
Allouez, Wis., Sewer Extension	116,688
Brussels, Wis., Add. School Bldg. ..	40,000
Casco, Wis., School	60,000
Chippewa Falls, Wis., Bridge	26,000
Colby, Wis., School Bldg.	39,000
Costburg, Wis., Sewerage Plant	51,600
De Pere, Wis., City Hall and Fire Station	45,000
Durand, Wis., School	75,500
Deerfield, Wis., School Add.	25,000
Elkhart Lake, Wis., Fire Station	30,000
Elmwood, Wis., Sewerage Sys.	40,000
Fredonia, Wis., Waterworks and Sewer Sys.	80,000
Green Bay, Wis., Street Impr.	161,957
Hammond, Wis., Sewers	32,000
Kewaunee, Wis., Courthouse	54,200
Madison, Wis., State Office Bldg.	1,832,000
Madison, Wis., School Add.	65,000
Madison, Wis., School Add.	90,000
Madison, Wis., Waterworks Impr.	64,000
Madison, Wis., County Courthouse Ann.	550,000
Milwaukee, Wis., Harbor Impr.	1,680,291
Milwaukee, Wis., Tunnel	64,111
Milwaukee, Wis., Library	325,000
Madison, Wis., Nurses' Home	202,000
Monroe, Wis., School	207,000
Manitowoc, Wis., Water Plant	597,818
Nekoosa, Wis., Library	22,323
Oconomowoc, Wis., Community Bldg.	100,000
Oshkosh, Wis., Gym-Audit.	200,000
Park Falls, Wis., Street Impr.	185,455
Park Falls, Wis., Ext. and Add. to Sewerage System	55,000
Palmyra, Wis., School Add.	43,000
Portage, Wis., School	241,900
Racine, Wis., School Add.	220,000
Racine, Wis., Street Impr.	72,000
Rhineland, Wis., School and School Add.	222,000
River Hills, Wis., Village Hall	50,000
Stevens Point, Wis., Sewerage	301,000
Seattle, Wash., Street Impr.	238,750
Tomah, Wis., School Add.	130,000
Two Rivers, Wis., Library Add.	25,600
Whitewater, Wis., Sewerage Plant	81,000
Wauwatosa, Wis., Waterworks	90,000
Wauwatosa, Wis., Street Lighting ..	136,000
Wausau, Wis., Incinerator	1,340,000
Watertown, Wis., Add. Park Pavilion ..	25,100
West Milwaukee, Wis., Street Light- ing	58,000

Wis. Dells, W., Sewerage Plant	91,600
Waukesha, Wis., Add. School Bldg.	35,000

WYOMING

Casper, Wyo., Hospital	\$376,724
Casper, Wyo., Co. Courthouse	423,636
Casper, Wyo., Hospital	376,724
Cody, Wyo., Town Hall and Fire Sta.	32,000
Deaver, Wyo., School	30,000
Green River, Wyo., Street Impr.	73,150
Laramie, Wyo., School	454,500
Lingle, Wyo., School	83,000
Lovell, Wyo., School	25,600
Meeteetse, Wyo., Waterworks	7,400
Rawlins, Wyo., Courthouse and Jail ..	290,000
Rawlins, Wyo., City Hall	54,500
Sheridan, Wyo., Sewerage	290,360

ALASKA

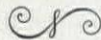
Anchorage, Alaska, Street Impr.	\$103,517
College, Alaska, Power Plant	60,700
Fairbanks, Alaska, Schools	492,000
Juneau, Alaska, Street Impr.	170,000
Ketchikan, Alaska, Elec. Sys. Impr.	4,200
Ketchikan, Alaska, Waterworks	16,237
Ketchikan, Alaska, Telephone System ..	9,802
Klawock, Alaska, Water Supply	32,727
Kotzebue, Alaska, School	38,000
Petersburg, Alaska, Univ. Bldg.	10,000
Petersburg, Alaska, Univ. Bldg.	10,000
Skagway, Alaska, Munic. Impr.	17,818
Tolson, Ariz., School Add.	4,060

HAWAII

Honolulu, Hawaii, Waterworks	\$260,000
Honolulu, Hawaii, Waterworks	815,000
Hilo, Hawaii, Fire Station	78,000
Hilo, Hawaii, Fire Station	78,000
Kauai, Hawaii, Waterworks	35,000
Lihue, Hawaii, Gymnasium	58,400
North Kohala, Hawaii, School	30,000
Wahiawa, Hawaii, Sewer System ..	133,000

PUERTO RICO

Arecibo, P. R., Waterworks	\$90,909
Caguas, P. R., Waterworks and Sew- ers Impr.	228,682
Caguas, P. R., Schools	254,545
Fajardo, Arecibo, Bayamon and Aguadilla, P. R., Hospital Impr.	489,000
Guayama, P. R., School Impr.	67,273
Hermigueros, P. R., Waterworks Impr.	40,000
Ponce, P. R., Hospital and Park	74,545
Ponce, P. R., School	267,273
Ponce, P. R., St. Impr.	500,000
Penuelas, P. R., School Bldgs. and Sewerage Sys.	81,818
San Juan, P. R., Dock	1,767,273
Vega Alta, P. R., Street Impr.	37,274
Vieques, P. R., School Bldgs.	11,818
Yauco, P. R., Waterworks	60,000



(Continued from page 47)

PENNSYLVANIA

Allegheny County	1,800,000
Chester	1,250,000
Harrisburg	1,500,000
McKean County	400,000
McKeesport	900,000
Philadelphia	6,882,000
Pittsburgh	9,754,000
Reading	1,500,000
Scranton	1,000,000

PUERTO RICO

Ponce	1,000,000
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SOUTH CAROLINA

Charleston	2,000,000
Columbia	1,500,000
Spartanburg	800,000

TENNESSEE

Chattanooga	3,600,000
Johnson City	300,000
Memphis	5,000,000

TEXAS

Brownsville	500,000
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Corpus Christi	1,325,000
Dallas	3,000,000
El Paso	900,000
Houston	2,250,000
Laredo	600,000
San Antonio	12,000
Temple	180,000
Waco	900,000

VERMONT

Burlington	450,000
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WEST VIRGINIA

Charleston	325,000
Huntington	2,250,000
Martinsburg	450,000
Morgantown	270,000
Parkersburg	675,000
Wheeling	1,350,000

WISCONSIN

Superior	675,000
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Totals	\$362,553,000
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(Continued from page 6)

said "Klem." "Well," said the Chief Clerk "It's mighty clever. Don't be in a hurry, I want you to tell me about it. I want to have a chat with you." And this, as the saying goes, was the beginning of a lasting friendship.

I entered the government service so early in life, and with so little previous business training that when it came time for me to retire I felt like a ship about to be launched upon an uncharted sea. Of course, Eddy, I have no means of knowing that ships have feelings. Even the author of the poem "The launching of a Ship" showed a little uncertainty for he wrote:

"She starts, she moves, she seems to feel
A thrill of life run along her keel."

Well, I wasn't altogether dead to a similar sensation. However, the committee on arrangements which greased the bilge-ways for me, was an especially efficient one, and took no chance of a hitch occurring to delay the fateful event. As I slid off they handed me my hat, and with it a number of testimonials including a fine barometer. They had an eye to the future—a weather eye—for I have found this instrument most useful here at this season of the year when the weather is as fickle as Lady Fortune and about as unpredictable as the probable action of the Appropriations Committee on our most justifiable and best supported estimates. It—the barometer and not the weather—is as comforting to me in a squall as paregoric is to an infant indulging in the same pastime. However, the occasional "advisories" of the Weather Bureau, when the sea dogs flush a tropical disturbance in the making—these annoying but necessary reminders of possibilities—are not conducive to comfort and peace of mind. They put me in the mental state of the fellow with an advanced case of Bright's disease who was making a trip by rail. As the train slowed down at the approach to every town he noted in the outskirts the inevitable cemetery, and his traveling companions could hear him mutter to himself: "There is another one of those damned graveyards."

I have lived here long enough, and have become so well accustomed to the cry of "Wolf! Wolf!" that I do not fear a hurricane unless it happens to be a man's size, like the one that recently missed us and devastated Long Island and the New England states; but I dread them, if you get the distinction, because of the damage they do and the inconvenience they cause afterwards by putting electric and telephone lines out of commission for the time being. If I were picking out the weather for a year in advance I wouldn't throw in a hurricane or two to relieve the monotony or just for good measure. However, I would like you to understand that I am no crank concerning the weather. I am the most easily satisfied man in the world in that respect. I don't mind the rain—if it comes in the night; I don't object to a fresh breeze—if the day is hot; I don't dislike cold weather—if it is a thousand miles away, and hurricanes are all right with me when they blow out to sea. And as for the dry season I can get along very well so long as the term doesn't apply to my ice box or its

contents.

Say, Eddie, "the way I heered it was that one feller said to the other feller"—apologies to Fibber McGee — "to what order of architecture do the little buildings belong that the office is now erecting? And the other feller says they belong to the pre-creation order"—"without form and void." How about it?

What I don't understand is how the Office is able to find sites for these buildings, since the filling stations have grabbed all the desirable ones, and it is a requirement of law that post office sites shall be centrally and conveniently located. It looks to me as if in the not far distant future these filling stations will be putting gas in their patrons tanks, water in their radiators, air in their tires, washing their windshields, handing them their mail and selling them money orders and postage stamps. The only difficulty will be that the attendants, for want of time, won't be able to live up to traditions, and read the incoming post cards.

Conditions in the Procurement Division must be better in some respects than they were in the old office, for there was a time when any thought of reorganization suggested the propriety of transferring the office to the Department of Agriculture and putting it under the Bureau of Animal Industry, because we never were much better than beasts of burden—the long eared kind—or under the Bureau of Entomology because we had enough "bugs" in it to justify the move. I recall that four female clerks, one skilled laborer, a private secretary to one of the former Supervising Architects, and two technical men were found eligible for transfer—without the consent of the Civil Service Commission—to the wards of St. Elizabeth. Possibly the entire office was under suspicion because one of the men sent there from the office saw another being brought over a few days later and called out: "Hello, Peter. What are you doing here and when is the rest of the office coming over?" Just because some of the men have preferred to remain with the construction branch rather than to accept employment on the outside with increased remuneration does not necessarily justify the conclusion that they had gone plumb "loco," although I will admit it looks a little that way. Such loyalty and self-abnegation is deserving of recognition, but the odds are against it because, as has been said, "Republics are ungrateful."

Judging from the startling effect, old Sam Hunter, who was a colored messenger on the Executive Officer's door, had the surprise of his life when he sat down on a sponge saturated with ice water that Bob Hardy had placed in his chair. But Sam Hunter was no more astonished than I was at hearing of Mr. Martin's recent transfer to the Bureau of the Budget. It is wonderful what tricks an animal trainer can teach wild beasts to do, but animals have intelligence. Martin's accomplishments were greater. He could take a mass of statistics and figures and make them eat out of his hand. He was the most helpful collaborator before the Appropriations Committee that I ever had. Together we constituted a two horse team with a spotted dog under the wagon. I would present my statement of conditions and Martin would reach into

(Continued on page 72)

BRICKWORK

PART TWO

Note in connection with Brickwork Part I

Reference: Comments upon hydrated lime in item, "Mortar."

The quality of hydrated lime available from manufacturers equipped to employ the most advanced methods of production is such that it may be safely used in dry form. Should the field engineer be doubtful as to the suitability of a brand of hydrate for use in such manner, he should obtain approval of higher authority before permitting such use.

Laying of Brickwork

The laying of brickwork is the materialization of an integrated composition possessing architectural characteristics which express the conceptions of the architect and serving structural purposes essential to the integrity and utility of the structure. The former is predominantly served by the exposed faces of the completed work—it is revealed in the composite effect accruing from the color or the range and arrangement of colors of bricks selected, from the bond patterns in which the work is laid, from the color and widths of exposed mortar joints and from the appearance of those joints which derives from the manner in which they are finished. The structural purpose is served by the substantiality, homogeneity and stability of the brickwork which arises out of the incorporation into the work of the individual brick units and the mortar which is utilized to consolidate the constituent units into an integrated whole. The two purposes are complementary and coordinate in importance. To the architect, the appearance of the exposed surfaces as to color and texture is paramount; to the engineer the stability, integrity and watertightness of the completed work is just as vital as is appearance to the architect.

The selection of bricks of particular manufacture for use in each individual project is generally reserved to the contractor subject to approval as to quality, color and texture by the designing agency which, after approval, supplies the field engineer with information and generally with samples of the acceptable material and with a panel laid up to illustrate the arrangement of colors desired in exposed faces of the finished work. The field engineer is charged with the acceptance or rejection of shipments delivered to the site after a determination of agreement or lack of agreement between the delivered materials and the approved samples. In the discharge of this function, he is called upon to make such tests as appear to him to be desirable and within the range of facilities at his disposal and, in cases of uncertainty to cause the designing agency to make, or cause to be made, tests upon specimens taken from the delivered materials in order to ascertain acceptability.

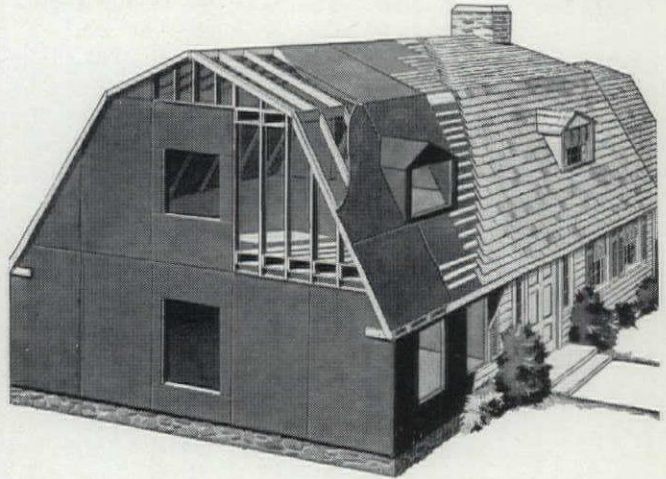
Preliminary to laying up any brickwork for exposed faces, considerable benefit will usually accrue from the construction of a sample wall under the personal direction of the bricklayer foreman and the supervision of the field engineer. This sample should approximate 36 square feet in area and not less than four feet in height. The distribution of bricks of different colors, the widths and finishing of joints should conform accurately with specification requirements and, so far as applicable, with the approved sample. The sample would profitably embrace the construction of a corner in order to establish practices to be followed in order to maintain bond around corners. The sample must meet the approval of the construction engineer as to conformity with contract requirements and with the sample approved by the designing agency. Such approval should be forthcoming before work upon permanent construction is started following which the permanent work should conform with the sample.

The qualities of bricks which the designing agency may approve in some instances in order to obtain desired textures,

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colors or effects, may result in the delivery of bricks which may appear to be structurally unsatisfactory to the field engineer. Under such circumstances, after the engineer shall have established the compliance of the material with the wishes of the designing agency, there is no alternative but to utilize it unless, by appeal to superior authority, other procedure shall be adopted. The necessity of utilizing such materials would emphasize the importance of invoking during construction, every available means to offset the possibly deleterious effects resulting from the use of such materials.

The substantiality, homogeneity and stability of the completed work, except as they may be affected by structurally unsound bricks, is entirely under the jurisdiction of the construction engineer. Presuming that properly graded materials shall have been made available and that a good workable mortar mix shall have been determined upon, the structural integrity of the completed work demands the complete filling of all joints with mortar. This apparently simple requirement may prove extremely difficult of attainment under actual operating conditions due to contributing factors arising in the self interests of the contractor, the brick laying subcontractor and the individual workman. In the first instance, the cost of mortar materials and of mixing, handling and placing the mortar represent a fair portion of the expense of performing the work. Unscrupulous operators stand to benefit materially if savings can be affected by partially filling joints. Further, more brickmason time is required to fully fill all joints than is required if such work is less thoroughly done so that the output per man per day tends to decrease while labor costs correspondingly increase as the result of more exacting workmanship. In the second place, the amount of effort required of workmen to completely fill all joints is greater than is required to partly fill them so that unscrupulous workmen, in an endeavor to lay a predetermined number of bricks per day with a minimum expenditure of energy, may find it convenient to partially fill joints. In view of the contributing circumstances and the divergent interests of the construction engineer on the one hand and unscrupulous contractors, subcontractors and workmen on the other, the necessity for adequate and intelligent supervision of the laying of brickwork is apparent.

Government specifications very generally require that brickwork shall be laid with a shove joint. This process contemplates the spreading and partial furrowing of an excessively thick bed of mortar upon which each brick is set several inches away from the adjacent previously laid brick or bricks and then by a firm downward and lateral pressure shoved toward the latter in such manner as to squeeze out excess mortar in the joint below the newly set brick and at the same time build up a pile of mortar between it and the adjacent brick or bricks which will fill the joints between them. This operation entails hard work for the bricklayer and, therefore, may require the enforcement of rigid punitive measures, including discharge from the job, for failures to perform it properly. Upon the completion of the shoving process, any deficiencies in the filling of vertical joints will generally be small and at the tops of vertical joints where they can be readily filled from the top.

The importance of thoroughly filling all joints in brickwork with mortar has been heretofore stated but it cannot be over-emphasized. Particularly productive of improperly filled joints is the practice of deeply furrowing the mortar in bed courses, in order to reduce the amount of shoving required.

The impossibility of the construction engineer watching the laying of every brick is apparent. On the other hand, the necessity of closest supervision is in no manner relieved because of the practical limitations. In practice, probably the most important measure that the construction engineer can invoke in the interests of good workmanship would be a frank discussion of requirements with the responsible superintendents and foremen in charge of the work in general and of the brickwork in particular followed by an announcement of measures that will be invoked in the event that evidence of failure to meet contract requirements is uncovered at any time. Such a conference should be followed up by the closest supervision of bricklaying operations for a few days in order to assist, where possible, in the education of workmen

to perform their work in the proper manner. From time to time, tests for watertightness of walls may be made by playing a stream of water from an open end of a hose held about eighteen inches from the exposed face of the wall and noting the time required for water to penetrate to the inside face. Thoroughly first class walls subjected to a test by the Bureau of Standards consisting of exposure of the exterior face of the test wall to a thin film of water while maintaining a ten pound lower pressure upon the interior face, the heavy rain test, successfully resisted penetration to the interior face over a period of fourteen days. For the field test as above described, absence of dampness or leakage after an eight hour exposure would indicate a well built wall. When determining the precise location at which the stream of water is to impinge upon the brick surface, recognition must be accorded the fact that the water will seldom travel horizontally through the wall. Rather, it travels diagonally downward along such channels as it seeks out and follows. For this reason, the appearance of moisture on the inside of the wall will generally be some considerable distance below the level of application of the water. The presence of an impervious material in the wall, such as a through flashing or a concrete floor slab, will prevent percolation to lower levels and, after an elapse of sufficient time, cause any water which reaches it to build up sufficient pressure to follow along the impervious surface to the faces of the wall. It follows, then, that the point of application of water to the exterior face should be located some six or eight feet above the level of an impervious barrier within the wall.

Instances are known where water has penetrated thirteen inch walls in five minutes. In any case, penetration is suggestive of defective workmanship. The Bureau of Standards in reporting upon some tests made upon sample walls laid up with different standards of workmanship and identical materials states, "The results show strikingly the effect of quality of workmanship on the permeability of masonry walls of brick."

Inferior bricklaying, however, does not account for all of the difficulties encountered in leaky brick walls. Other sources embrace the characteristics of the individual bricks and the imperviousness of the mortar. If the bricks are insufficiently compressed or contain air pockets or internal fissures, ideal channels for the passage of water are provided. Similarly, mortar in which the sand is improperly graded, particularly sand containing insufficient fines, will be porous and therefore afford ideal water channels. Again, improper balance between the amount of water in the mortar and the dampness of the bricks at the time of laying will result in a shrinkage of the mortar in the joints so that cracks, sometimes visible and at other times almost microscopic, afford perfect channels.

Mortar and bricks when first placed in the work are wet and require time to set up, harden and dry out. Therefore, some time must elapse after the brickwork is laid up before it will have attained a condition comparable to seasoned work and, therefore, suitable for test. During the period of this elapsed time, the bricklaying, under normal conditions, will be in progress and any defects in methods employed in the work to be tested will tend to be incorporated in subsequent work until such time as the nature of the defects can be determined and steps taken to correct them. For this reason, it is desirable that tests should be made as soon as the condition of the work is such as to yield representative results. Under ordinary conditions of weather, brickwork that has been laid up for approximately a week would be expected to have reached a condition suitable for test.

Tests should be made upon areas selected at random where the character of the work is considered to be representative. If, however, there are areas in which inferior conditions are suspected to exist, the tests should be directed to those areas. Penetrability of brickwork under test is indicative of unsatisfactory work in the area tested and creates a suspicion of all other work until the exception is established. The number of tests should be determined by the nature of the results obtained and would be less where satisfactory work is found than where unsatisfactory work is discovered.

Upon the discovery of leaky brickwork, the determination of the cause of the condition becomes immediately impera-

tive. The first step should be an examination of the bricks that are being used for the face work in order to ascertain whether their structure is such as to explain the passage of water through the walls. Next, the exposed face of the area should be carefully examined in order to determine whether there are cracks either in the mortar joints or between the bricks and the mortar. Third, a section of the apparently defective work should be removed, working preferably from the inside and working outward during which a careful examination should be made of the joints in order to determine any failure to completely fill them with mortar. Finally, the character of the mortar should be examined for density and watertightness. Discovery of a possible explanation of the leakage in any one of the items is no justification for abandonment of the complete investigation, unless the cause of leakage is definitely established. It is perfectly possible that apparently defective bricks may be laid up with all joints completely filled with impervious mortar and result in watertight work.

The determination of the cause of the defective work affords the basis upon which corrective measures must be predicated in the uncompleted work pending the determination of which measures bricklaying operations should be suspended. Due to the necessary lapse of time between the laying-up of the tested work and the date of the test, under normal conditions a considerable amount of brickwork will have been done all of which will be under suspicion of defect. This condition may be expected to present a troublesome problem to the construction engineer. An obvious remedy would be to condemn the defective work and require its reconstruction in a satisfactory manner. An alternative would be to require the contractor to make the work good by other means satisfactory to the Government. In either case, an item of considerable expense to the contractor is entailed so that spirited opposition to the institution of corrective measures may be expected. The exception to the justification of demands for correction made upon the contractor will exist whenever it may be shown that the seat of the trouble lies exclusively in the quality of the bricks which the designing agency may have approved for the work without reservation as to their homogeneity or soundness.

In the interest of reducing expense that would ensue from the discovery of leaky brickwork, the field sample of brickwork heretofore suggested to be utilized for the determination of architectural characteristics of the exterior face work could be expanded to embrace the construction of a full thickness wall utilizing the same mortar, back-up material and class of workmanship which is proposed to be incorporated into the building. After a seasoning period, the sample could be subject to the same test that is to be applied to the permanent construction. If the test indicates that unsatisfactory results may be expected to ensue from the materials and methods employed, the opportunity is presented for corrective measures to be adopted before permanent work is placed.

Probably the most effective measure that may be adopted to insure against leaky walls is the application of a parging coat about $\frac{3}{4}$ inch thick to the inside face of the 4 inch layer of exterior bricks before laying the back-up masonry. The expedient is not an expensive operation and may serve to correct other defects which would prove to be troublesome.

Considerable attention has been accorded the structural integrity of walls as reflected in watertightness. This requirement is restricted obviously to exterior walls. The application of a permeability test to interior brickwork is unwarranted. On the other hand, structural integrity and homogeneity is contemplated wherever brickwork is utilized.

Laying Brickwork In Freezing Weather

Satisfactory brickwork can be built in freezing weather if precautionary measures and methods are adopted.

The bricks should be laid dry and must be free of adhering ice when placed in the wall.

The mortar should be a Portland cement or a cement-lime mixture. The amount of lime in cement-lime mortar should



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be the smallest possible, consistent with necessary workability, on account of its effect in delaying the set of the mortar. Unless adequate measures are taken to prevent freezing of the work, lime mortar and natural cement mortar should never be used in freezing weather as the former sets too slowly and the latter is injured by freezing.

Precautions should be taken to insure a temperature of 60 degrees F. for all materials at the time of incorporation into the work. Care must be taken to prevent the introduction of mixing water into the mortar at temperatures in excess of 165 degrees F. otherwise injury of the mortar will result.

If the mortar is prevented from freezing until after initial set, no injurious results may be expected to ensue. The construction of a temporary enclosure, heated by coke fired salamanders, around work in progress and the retention of the enclosure until the initial set shall have taken place will not only reduce the probabilities of inferior brickwork, but will tend to increase production because of the greater comfort provided for the bricklayers.

In multi-story jobs, the bricklaying should progress so as to enclose complete stories in succession. Immediately the successive stories are walled in, the openings should be closed and temporary heat provided in the newly enclosed space. The heat serves to expedite the setting up and the drying out of the walls so that subsequent work may be gotten under way with the minimum of delay.

Cleaning of Brickwork

Upon completion of bricklaying, the exposed faces should be cleaned. Stains, dirt and surplus mortar must be removed. If thorough washing with a clear water is ineffective, resort must be had to a dilute acid bath composed of approximately 5% of muriatic acid mixed with water. Following promptly after the acid bath the portions of the work must be thoroughly rinsed with a good flushing of clear water.

Protection of Brickwork

Protection of brickwork during construction embraces defenses against the elements, particularly rain, and against physical damage resulting from other construction operations.

The prevention of infiltration of water into the work is of paramount importance. The horizontal surfaces of the tops of work in progress offers an ideal entrance for water which, as it trickles downward, is absorbed by the masonry from the surface of which it will subsequently evaporate as the building dries out. The passage of the moisture through the masonry will dissolve soluble salts present in the bricks and mortar. Upon evaporation from the surfaces, the salts will be deposited upon those areas in the form of efflorescence which is highly undesirable architecturally. Protection against the infiltration of water is procured only by keeping the exposed upper surfaces of brickwork adequately covered with canvas, temporary planking laid so as to shed water or other equally effective device. This protection must be provided for all exposed top surfaces at all times until such times as the permanent copings or other impervious capping is provided.

Protection against physical damage is largely a matter of prevention of injury to work in place caused by falling objects, the handling of materials and objects and the carelessness of workmen. Window sills and projecting ledges of sufficient width to retain the guards should be protected by planking. Narrow projecting ledges should be protected by heavy building paper in order to prevent the collection of surplus mortar upon them as the subsequent removal of hardened mortar may injure the exposed corners of the ledges and the stain of the mortar upon the brickwork will mar the appearance of the work. Exposed corners should be protected by adequate wooden guards in all instances where materials are to be handled adjacent to them.

When bricklaying is done in freezing weather, in addition to proper means for the prevention of freezing of mortar prior to and during laying up of the work, provision must be made to prevent freezing of the work after it is in place until after the mortar has definitely hardened to a degree that no damage will ensue from subsequent freezing and thawing.

Joints In Brickwork

The finish of joints in brickwork is important only in exposed facts—either interior or exterior. In either event, the type of joint is determined by the designing agency and is described in the plans and specifications. The type specified may be interpreted to represent the decision of the architect as to the form which will translate into the finished work his conception of texture which the finished building should possess.

The finish of joints falls into three principal classes as determined by the means employed in the operation; namely, trowelled, tooled and stripped.

Trowelled joints, as the name implies, are finished with the trowel. They embrace flush, struck and weathered joints. In the flush joints, the mortar is cut off flush with the face of the wall and presents the rough texture of freshly cut mortar. In the struck joint, the joint after being cut flush, is struck with the back of the trowel in such manner that the bottom of the joint is forced back from the face of the wall while the top remains flush with it. In the weathered joints, the operation is the same as for the struck joint except that the top of the joint is forced back and the bottom is flush with the face. As between the three joints, the flush joint offers the least resistance to penetration by moisture because of the unconsolidated nature of the exposed surface. Struck and weathered joints, upon which the finishing operation should be deferred until the mortar has partially set, offer more impervious surfaces to the weather due to the pressure incidental to the finishing which tends to force the exposed sand grains back from the surface and thereby exposes a smoother and denser face. From a water-proofing viewpoint, struck joints result in the provision of a small ledge on top of each horizontal course upon which water can accumulate and from which it can be absorbed into or percolate through the brickwork.

Tooled joints are finished with special tools which mould the exposed area of the mortar into specific forms. Tooling is always done after the mortar has had time to partially set but before final set has been attained. The pressure that is required in most types of tooling serves the threefold purpose of forcing the mortar firmly against the adjacent bricks so that possible prior shrinkage in the joint is corrected, of providing a dense surface upon mortar for exposure to the weather and of forming an exposed mortar contour in conformity with the designer's wishes. Tooled joints of the commoner forms, embrace those designated as raked, convex, concave, "V," and Homewood joints. In all cases the joint is first cut flush. The raked joint is formed with a jointer by raking out the mortar to the desired depth for the full width of the joint so that the finished surface of the mortar is a plane parallel to the face of the work; smooth textured and rough textured joints are obtained by use of steel or wooden jointers, respectively. The convex joint is formed by a tool so shaped that the contour of the joint after being compressed by the passage of the tool over it is curved so that the top and bottom of the exposed mortar in the joint are forced back while the center remains approximately flush with the face of the wall. The concave joint is formed by a tool which is the reverse of the tool used for the convex joint so that the center of the curved profile is depressed back from the face of the wall. The "V" joint is similar to the concave joint in all respects except that the tool produces a profile having plane sides intersecting in an angle instead of the curved profile. The Homewood joint, which does not cause compression of the exposed mortar face, is finished by scribing a fine indented line along the center of the mortar joint by use of a fine tool guided by a straight edge.

The stripped joint is designed to obtain the neatest and cleanest possible joint in which mortar is not desired in the plane of the exposed work. It is formed by laying a wooden strip having a vertical dimension of the thickness of the desired joint and a width equal to the depth of the desired recess, along outside line of the previously laid course of brick. The mortar for the bedding of the next course is then spread behind and flush with the top of the strip and the course laid. When the mortar shall have set sufficiently to support its load without flowing, the wooden strips are removed and the exposed edges in the joints will be free of

stain and mortar. This type of joint is slower and more expensive to construct than either of the other types herein before referred to.

In order to obtain particular effects, the architect may specify different types of finish for joints in the same job. If, for instance, it is desired to emphasize horizontal lines, horizontal joints may be required to be raked while vertical joints between the horizontal joints may be flush.

Parapet Walls

Parapet walls are particularly vulnerable points in wall construction because of their exposure on both faces to the action of the elements and because of the tendency to utilize inferior materials and workmanship in building the unexposed face. The conditions of exposure of the inside faces of such walls are aggravated, particularly where flat roofs are utilized, by the impact of accumulated roof runoff which is picked up by high winds and driven against the wall surface in addition to the falling rain and by unusual conditions which prevail when improper roof drainage, plugged drains or downspouts or other factor causes water to be impounded in areas adjacent to the parapets. The conditions of exposure of the tops of such walls obviously are severe for the reason that runoff from level or nearly level areas is necessarily slower than from vertical surfaces. Snows, which may acquire injurious acid characteristics by absorption from the atmosphere, often remain drifted against parapets for weeks which may be followed by periods of alternate thawing and freezing. In recognition of these rigorous conditions, the designing agency habitually provides protection for the exposed top of the wall in the way of a coping, for the inside face by a coating of bituminous material and by flashing, and for a last defense against unavoidable percolation by a thorough flashing.

The importance of parapet construction cannot be over-emphasized. The fact that, under normal conditions, parapets are built toward the end of bricklaying operations when the supply of brick may be running low may often complicate the problem of getting the necessary high quality of work. The use of inferior bricks and/of bats in the inner face should be prohibited. Even where the specifications do not especially provide for their use, the contractor may save himself considerable grief if he uses hard bricks, comparable to the face brick, upon the inside face of parapets as well as upon the outside face. The quality of workmanship should be in all respects comparable to that required in the outer face.

Where a bituminous waterproofing is to be applied to the brickwork, the walls and the areas thereof required to be coated, must be thoroughly dry. Moisture behind such coatings will only cause peeling with sudden changes of temperature. Especial care must be taken in the application of such coatings to insure complete coverage of all portions of the areas to be protected.

Copings, both for walls and chimney caps, should be set with greatest care in order to obtain thoroughly watertight protection against infiltration from above. They should slope toward the inside of the wall in order that dust and dirt-laden wash will not trickle down the exterior face and stain the exposed work. If copings protrude beyond the finished exterior face, the overhang should be ample and drip grooves should be provided. The maximum protection against entrance of water from above will be afforded by copings that protrude beyond the inside as well as the outside face of the parapet wall. Generally copings for brick walls will be of a low absorptive material as natural stone, cast stone, terra cotta or glazed or vitrified tile.

The combination of through flashing with low parapet walls often presents a troublesome maintenance problem due to the difference in expansion between the brickwork and the copper used in the flashing. If the height of the parapet is such that insufficient weight is provided to control the expansion of the copper within the limits of movements of the brickwork, complete rupture of bond at the flashing will occur and an ideal channel for entrance of water will be provided.

Projecting Brickwork

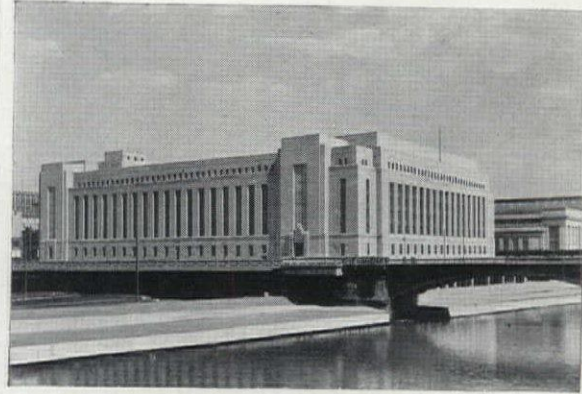
Projecting courses or features in brickwork afford points of potential trouble particularly if the projections are so

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PROCUREMENT DIVISION GOLF TOURNAMENT

The Procurement Division Golf Tournament was held at the Beaver Dam Golf Club on Wednesday, October 19. The following awards were made:

The Grand Prize was the right to have the name engraved on the Federal Architect Trophy and possession of same for one year. With this award there is given a replica of the cup as a permanent possession.

This was won by K. O. Sonneman with the score of 84, Handicap 16, Net 68.

CLASS A. A trophy for low net won by H. S. Chandler with the score of 88, Handicap 16, Net 72. The trophy for low gross was won by Melvin Skaggs with the score of 80.

CLASS B. A trophy for low net won by W. J. Carmack with the score of 92, Handicap 21, Net 71. The trophy for low gross was won by A. A. Hart with the score of 91.

CLASS C. A trophy for low net won by L. W. Guilford with the score of 101, Handicap 27, Net 74. The trophy for low gross was won by S. G. Greene with the score of 99.

To the party who struggled most valiantly and worked the hardest to achieve the highest score and who succeeded by scoring the grand total of 142 strokes, was presented the Kensington Plate, as a memento of his great achievement, Mr. E. P. Rankin.

small as to prohibit the use of flashing. Projecting soldier or belt courses are typically difficult problems to handle. In such instances, reliance must be placed first upon the setting of the protruding bricks to insure that there shall be no slope backwards to cause collected water to flow toward the wall and, second, upon the maximum tightness of the tops of the exposed joints in the protruding work and of the horizontal joint immediately above the protruding work which tightness must be obtained by firm tooling.

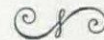
Efflorescence of Brickwork

The appearance of efflorescence upon brick work is conclusive evidence that moisture has entered the work and dissolved soluble salts either in the bricks or in the mortar and, subsequently, found its way to the surface from which it has evaporated and thereupon deposited the salts. If the moisture shall have entered the wall by absorption from the atmosphere or from driving rain through pervious brick, the cause lies beyond the control of the contractor and the field engineer. If, on the other hand, water entered the work through the top of the finished or unfinished work, through cracks at joints or through the mortar, the quality of workmanship and of grading and mixing of materials used in the mortar must account for the trouble.

In some instances, the efflorescence will disappear after a period of exposure to the atmosphere and to rains. In others, it may be removed by an additional washing with clear water or with a bath of dilute solution (5%) of muriatic acid followed by a rinsing in clear water. In other instances of more obstinate character, permanent removal can be accomplished only by the utilization of more costly and elaborate processes determined upon after careful analysis of each particular case by an expert.

Only by incorporating into the brickwork the best grade of workmanship and selection of materials can the contractor safeguard himself against expenses that invariably ensue from the appearance of efflorescence. Simultaneously, only by closest attention to the contractor's methods and superintendence can the construction engineer protect himself against possible aspersions that may be cast upon the appearance of brickwork constructed under his supervision.

Brickwork in contact with surrounding earth is continuously exposed to the dampness carried by the ground. Even for structures for which waterproofing or dampproofing is provided for brickwork below ground level, this protection generally is not carried above grade. Obviously, then, there is a region of brickwork at ground level where moisture can be absorbed by the brickwork and travel upward by capillary attraction. The subsequent evaporation from the face of the wall will cause efflorescence if the necessary soluble salts are present. Protection against efflorescence adjacent to the ground line is obtained by introducing an impervious course in the wall for its full width on about the second or third course above the ground level. This course may be of impervious stone or, more generally in brick structures, a through flashing of copper coming to within one quarter inch of the exposed face of the brickwork. By such a device, such efflorescence as originates from the absorption of ground water is restricted to a narrow band at ground level where it is generally quite inconspicuous.



(Continued from page 66)

a high hat and pull out figures to corroborate them in full. If the Acting Director of the Budget knows his onions—and I feel sure he does because he was at one time a shining light in the old office—he will throw his hooks into Martin and hang on to him until Gehenna congeals.

Again, with kind regards and best wishes always to my former associates in office, I am

Sincerely,

"THE JUDGE."

Lead Coated Anaconda Through-Wall Flashing being installed in the new United States Post Office at Ridgewood, N. J. John De Beer, Inc., General Contractor.

Anaconda Through-Wall Flashing

Efficient, durable, inexpensive, adaptable to almost every masonry or brick condition

Anaconda Through-Wall Flashing* has these worthwhile features:

1. Zig-zag corrugations, 7/32" high, provide complete mortar bond in all lateral directions.
2. An integral die-stamped dam, also 7/32" high, gives complete drainage in the desired direction. Flashing drains itself dry on a level bed, reducing possibility of wet walls and heaving by frost.
3. Flat salvage permits neat, sharp bends for counter-flashing or for locking to adjacent sheet metal.
4. Flashing is easily locked endwise by nesting corrugations. Such joints are water-tight, but, if desired, are

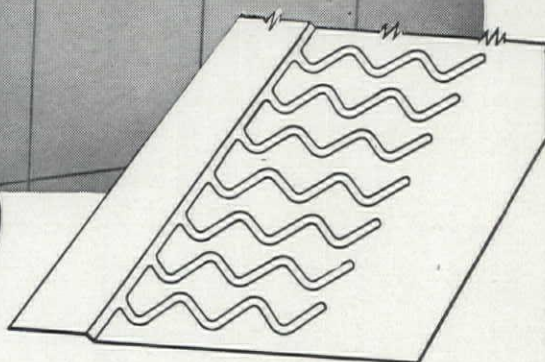
easily soldered because of adjoining flat surfaces.

5. Tongue of dam is so designed that it may be placed within 1/4" of face of wall, protecting more of the wet portion of the wall, and still providing ample bed for efficiently pointing the mortar.

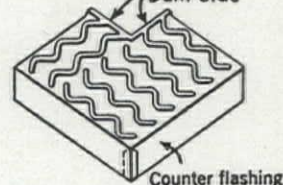
Anaconda Through-Wall Flashing, readily obtainable from Anaconda wholesalers, is made of 16-oz. copper—either plain or lead-coated. It is furnished in 5' and 8' lengths, in standard and special widths with various selvages, and corner flashing as illustrated for 8" and 12" walls.

Anaconda Publication C-28 contains complete description of and suggested specification for Anaconda Through-Wall Flashing.

*Patent No. 1,906,674

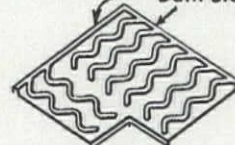


INSIDE CORNER FLASHING
Dam side



Standard inside corner flashing unit. Dam on inside; drains out.

OUTSIDE CORNER FLASHING
Dam side



Standard outside corner flashing unit. Dam on outside; drains in.

88116



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NECROLOGY

I have but recently heard of the death of one of the old-time construction engineers, John H. Holmes, who passed away, I understand, last May in Bay City, Michigan. I assume the July issue of the "Architect" was in press at that time and possibly a notice of his death did not reach the office, as I understand from Mrs. Holmes in a recent letter that no word from the office had been received.

In view of the fact that he was one of the old-timers, and a very loyal, capable and unusually efficient construction engineer, it naturally would be fitting and appropriate to make mention of same in THE FEDERAL ARCHITECT.

If I am not mistaken, he came into the service in the late 90's—1897, I believe—and his first assignment was in connection with the old P. O. Administration building on Penn Avenue. From that time on, he had various assignments in all parts of the U. S. He was in California for a while (San Jose P. O., I believe), St. Paul, completion of the tower on the

JOHN H. HOLMES

old P. O. building. His recent years, however, were in his native state of Michigan, where he supervised several of the larger structures: Battle Creek, Flint, Bay City and finally Detroit, when he retired in the fall of 1933.

He was a man of unusually fine personality and had the happy faculty of being very genial, friendly and tolerant and yet firm in his decisions, and always had the respect of all who come in contact with him. I am enclosing a clipping which gives a brief statement of his career. I assume there is some record of his record in the office files, which you may have seen.

One by one the old construction engineers are passing on. I assume you are well and busy. With best wishes for your continued health and happiness,

Sincerely yours,

ALLYN A. PACKARD,
District Engineer.



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The FEDERAL ARCHITECT · OCTOBER, 1938

75

Carmi, Illinois

Dear Ed:

I received a card in the mail a few days ago hinting a donation to THE FEDERAL ARCHITECT would be acceptable. I thought the get-up of the same very neat; this card gave me a guilty conscience inasmuch as I had disregarded similar hints so I am enclosing \$5.00 to compensate for past and present.

In watching the growth of THE FEDERAL ARCHITECT, it reminds me a great deal of a barrel of wine I made while living in Takoma Park. The first few months after it had been made it was terrible to taste but it improved with age and the older it got the more kick I got out of it. That's the same with THE FEDERAL ARCHITECT. When it was young it was not so good but with each edition it improved.

I get a lot of enjoyment out of reading the "Judge's" letters and this again takes me back to the early editions of THE FEDERAL ARCHITECT, when the Supervising Architects Office were assigned to the small quarters on the fourth floor of the Treasury, when the whole personnel could have been adequately housed in one of the modern \$42,000.00 Post Offices and have room to spare. It takes me back to the times when the Structural Department was about the size of a good sized dining room, with a glass partition between T. C.'s office and the drafting room. All that was necessary for T. C. to do was to look over the top of his glasses and he could tell whether you were working a crossword puzzle or figuring stresses. When you could slip out of the Structural Department around the corner and into the Architectural Department and the first line of attack would be Morris, figuring out ways and means of incorporating terra cotta in the various Federal Buildings with the avowed purpose in mind of seeing what he could do to put the stone quarries at Bedford and Bloomington, Indiana out of business. From this point in another two more minutes the entire round of the Supervising Architects Office could have been made. What a difference it was on my last visit to Washington, when it took the best part of a day to make the rounds of the different departments to renew old acquaintances.

Wishing continued success to the personnel of THE FEDERAL ARCHITECT and taking this opportunity to congratulate you on the wonderful strides you have made in this publication, with its many interesting articles, and the added features of the last additions showing new assignments, I am,

Very truly yours,

EDWARD F. WEBB,
Construction Engineer.

Livingston, Texas

THE FEDERAL ARCHITECT,
Washington, D. C.

Just received a repayment of a loan I never expected to collect, so that when I recovered from the faint produced by the good luck, decided I would purchase the enclosed Money Order, to apply on account.

Sincerely do hope that if it produces a heart attack in the office that it will have no serious consequences.

Enjoy thoroughly the entire contents of each issue, and just wish it could come out oftener.

Very truly yours,

EVAN H. LYON.

American Architecture Since The War

National Exhibition Touring Country

The first exhibition of its kind for over twenty years, and as far as is known the first ever to be circulated throughout America, has its initial showing in Washington in September. This is the "National Exhibition of Representative Post-War Architecture." During the coming year, it may be seen in more than a score of cities all over the country.

While the past two decades have been witnessing rapid strides in Architecture in America, the interest of the public has flourished and grown even faster. The exhibition had its genesis in the desire to present to the public, to the architects themselves, and to schools, a general, well-rounded survey, in excellent photographs and plans, of buildings which

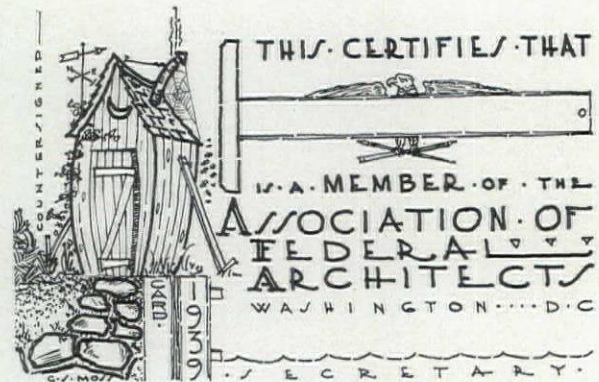
architects consider "fine" in design, and "representative" of the best work executed in the United States since the Great War.

Selection Comprehensive, Impartial

For practically two years, the Special Exhibits Committee and the Committee on Education of the American Institute of Architects have been busy selecting and assembling material, and The American Federation of Arts with preparation and plans for circulation.

To assure a comprehensive range of buildings, 1,500 letters were mailed by the Committee on Education, A. I. A., to directors and officials of the A. I. A., to Chapters, to staffs of Architectural schools, and to practicing architects throughout the country.

These groups submitted more than 1,000 buildings as being worthy of consideration. With photographs of each building available, the Committee assumed the task of elimination. From these 1,000, a pre-selection of 250 was made; final selection brought the exhibition down to its limit of 150 buildings. The selection was as impartial as possible, the intent being to choose "representative" buildings, irrespective of school, style or individual.



Frivolous Design by Mr. Moss

When Anthony H. G. Fokker, famous Dutch-American airplane engineer, recently upset all traditions in the motor boating world by incorporating his knowledge of aircraft design into the construction of a startling new 110-foot yacht, the Q. E. D., he took from the building industry its knowledge of sound control.

Determined that the roar from 1,400-horsepower gas engines should not annoy him or his guests, Fokker ordered the engine room sidewalls and ceiling covered with a sound absorbing material, Acousti-Celotex, commonly used in offices, theatres and other buildings to deaden unwanted sounds. He says that he has "been able to eliminate the noise of two 700-horsepower engines operating within nine feet of the cabin to the extent that a normal conversation can be carried on."

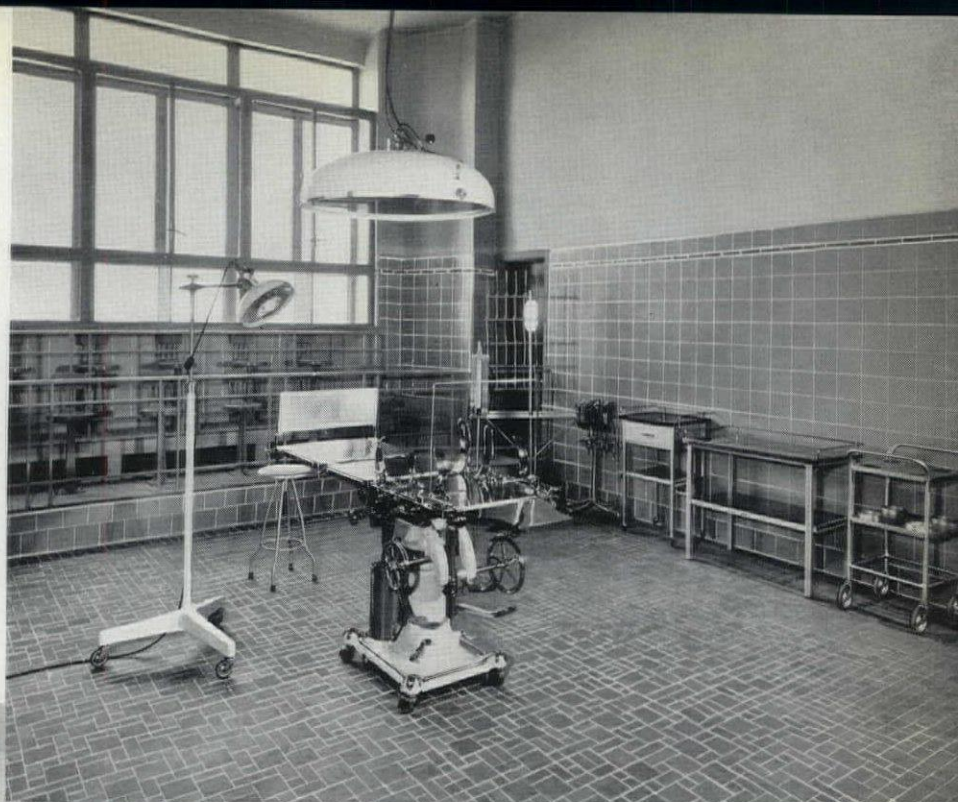
Fokker startled naval circles when he announced his new yacht. The superstructures of most yachts and ocean steamers with square surfaces opposed to the air, offended his engineering sense. He streamlined the entire superstructure of the Q. E. D., in line with airplane design. He carries his anchor against the bottom of the craft's hull, instead of hoisting it on deck. He equipped his boat with under-water stabilizers which act much as ailerons on an airplane, and borrowed extensively from the aviation industry for many other features of design.

William G. Wood, secretary of the Consolidated Shipbuilding Corporation, which built the Q. E. D. for Mr. Fokker, calls the new yacht "a \$250,000 trial horse" to test ideas "which are to be used in a larger and more elaborate Q. E. D. when these tests are completed."

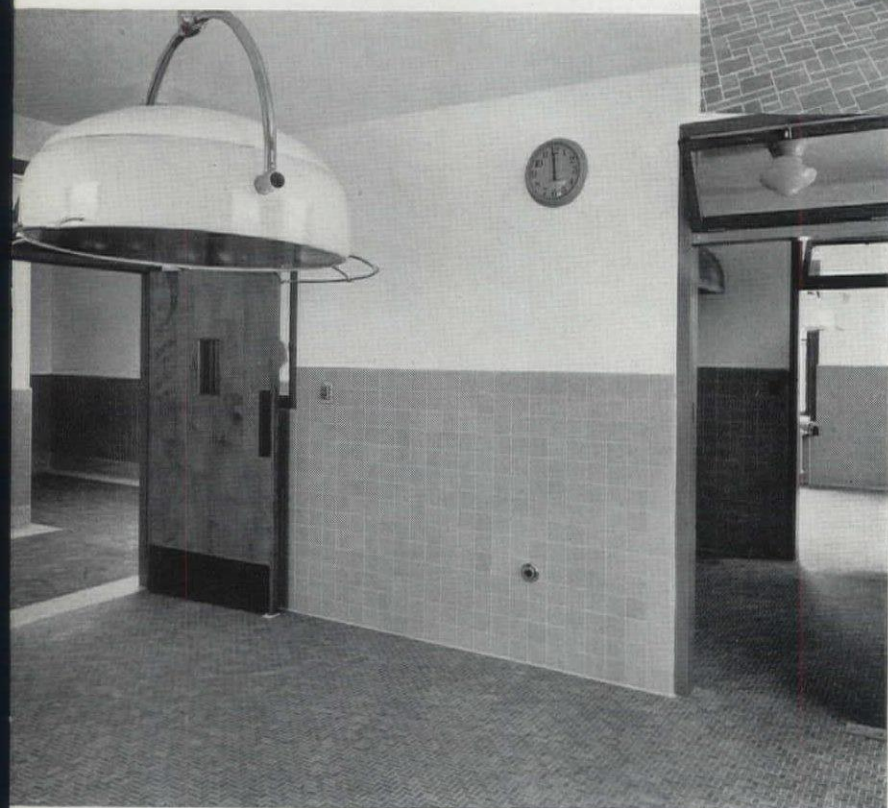
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Wall—Romany Glaucous Green; Floors—Spartan Ceramics



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POST HOSPITAL—CAMP HOLABIRD, MD.
Architect—Office Quartermaster General
Wall—Romany Grey; Floors—Spartan Ceramics

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UNITED STATES POST OFFICE, QUEENS BLVD., FOREST HILLS, NEW YORK CITY
 Louis A. Simon, *Supervising Architect.* C. H. Johannsen & Co., *Builders.*
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Our Laboratory, in collaboration with Mr. Rich, succeeded in producing a terra cotta reddish brown in tone well suited to the environment and with just enough texture to give life and warmth to the flat surfaces.

Ashlar units are approximately 1' 8" x 3' 8". Projecting piers 2' 6" wide, finished return both sides, *without vertical joints*. Large buttress and flagpole base at left of entrance 4' wide in one piece. Every flat surface planed in dry state before firing, insuring level face.

All units extruded by latest deairing process 4" thick with closed back, requiring no filling and providing improved structural stability. ATLANTIC TERRA COTTA is always fired at 2400° F.

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U. S. POST OFFICE, FOREST HILLS, N. Y. CITY
Detail of Main Entrance

The figure "Spirit of Communications" by Sten W. J. Jacobsson,
Sculptor, winner of the competition offered by Procurement Division.

COTTA COMPANY

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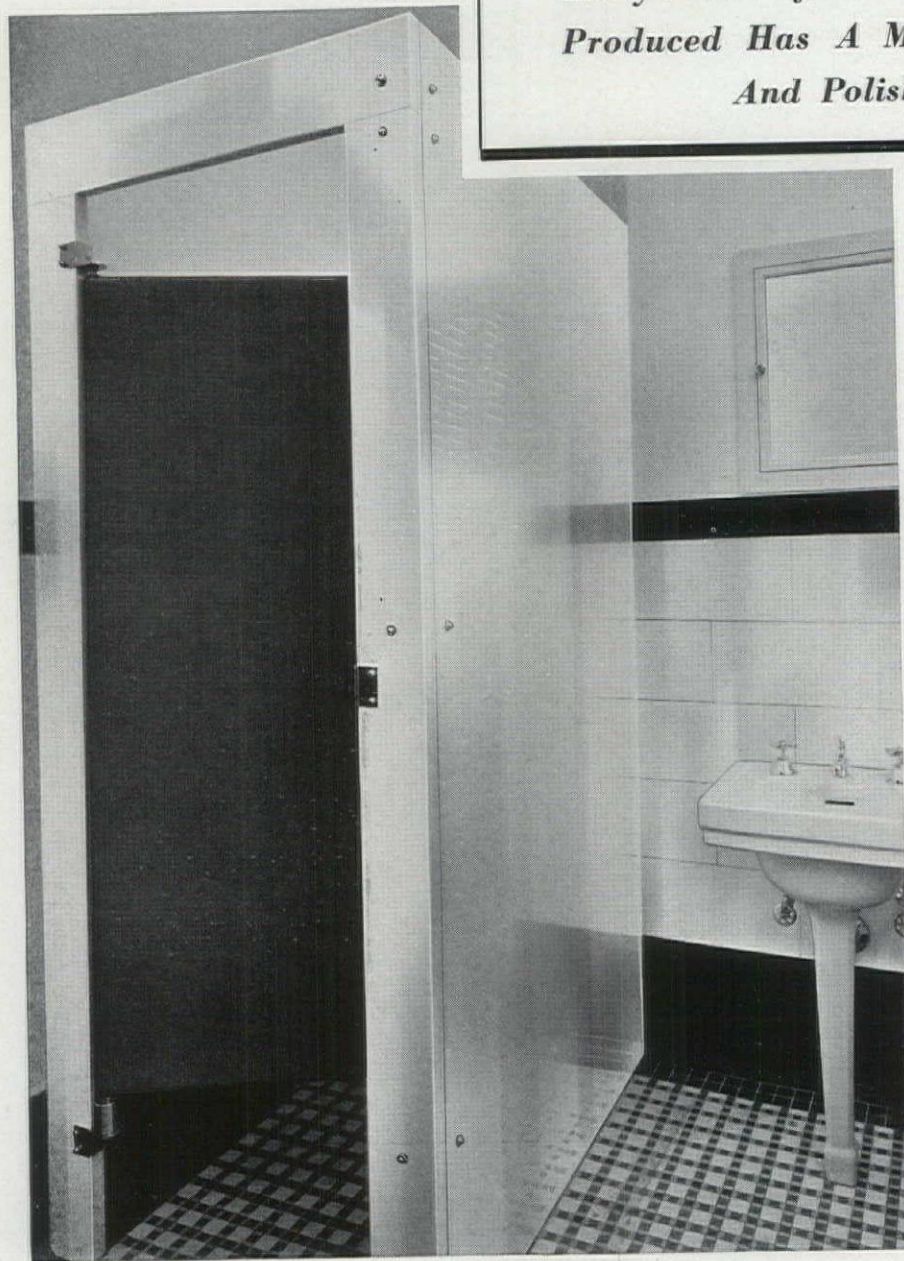
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The FEDERAL ARCHITECT · OCTOBER, 1938

Page 79

"Carrara" Means Only One Type of Finish...the Best!

Every Piece of Carrara Structural Glass Produced Has A Mechanically Ground And Polished Finish.



A GROUND AND POLISHED FINISH means accurate reflections, eye-catching beauty. Notice how this toilet room of Carrara stamps the building as modern and desirable.

A MECHANICALLY ground and polished finish like that of the finest plate glass, identifies Carrara as a top-quality structural product. This finish gives Carrara unusual beauty, mirror-like reflectivity.

And Carrara possesses other vitally important advantages as well. For it will not check, stain or craze. Its vibrant color tones do not fade. It presents no maintenance problem. An occasional wiping with a damp cloth keeps Carrara always bright and sparkling. Essential, too, for buildings that must stay modern: it does not absorb odors. Toilet rooms of Carrara never betray a building's age.

This modern material serves exceptionally well for toilet room stiles and partitions, for wainscoting . . . for countless practical and decorative uses. An expanse of Carrara, strategically placed, gives dignity, beauty, tenant appeal to any building. And in all its varied thicknesses, Carrara offers the same qualities. Every piece assures permanence, accurate reflectivity and low-cost maintenance. Get all the facts. Send your request for our free booklet, "Carrara, the Modern Structural Glass," to the Pittsburgh Plate Glass Company, 2104-X Grant Building, Pittsburgh, Pa.

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West New York, N. J.

Ott Store Equipment Corp., Architects.

Eminent architects are turning more and more to time-tried yet ever new Architectural Terra Cotta as the ideal medium for the perfect interpretation of their modern designs. To the age old characteristics of permanence, fire resistance and easy cleanability Federal Seaboard has added the modern features of:

Solid (closed) back Federal Seaboard Terra Cotta requires no filling with brick or grout and is produced, in the 2" thickness, from 12" to 24" wide and up to 36" in length. Larger slabs may be had in the 4" thickness.

Flat surfaces in controlled color: Federal Seaboard Terra Cotta is face planed, before firing, to produce a straight, flat surface free from waviness and is available in an almost unlimited range of colors and textures.

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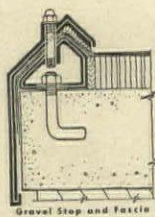
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South Amboy, N. J.



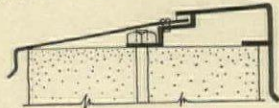
ALUMINUM

FROM ROOF TO SIDEWALK LINE

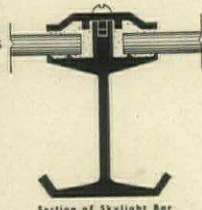


Gravel Stop and Fascia

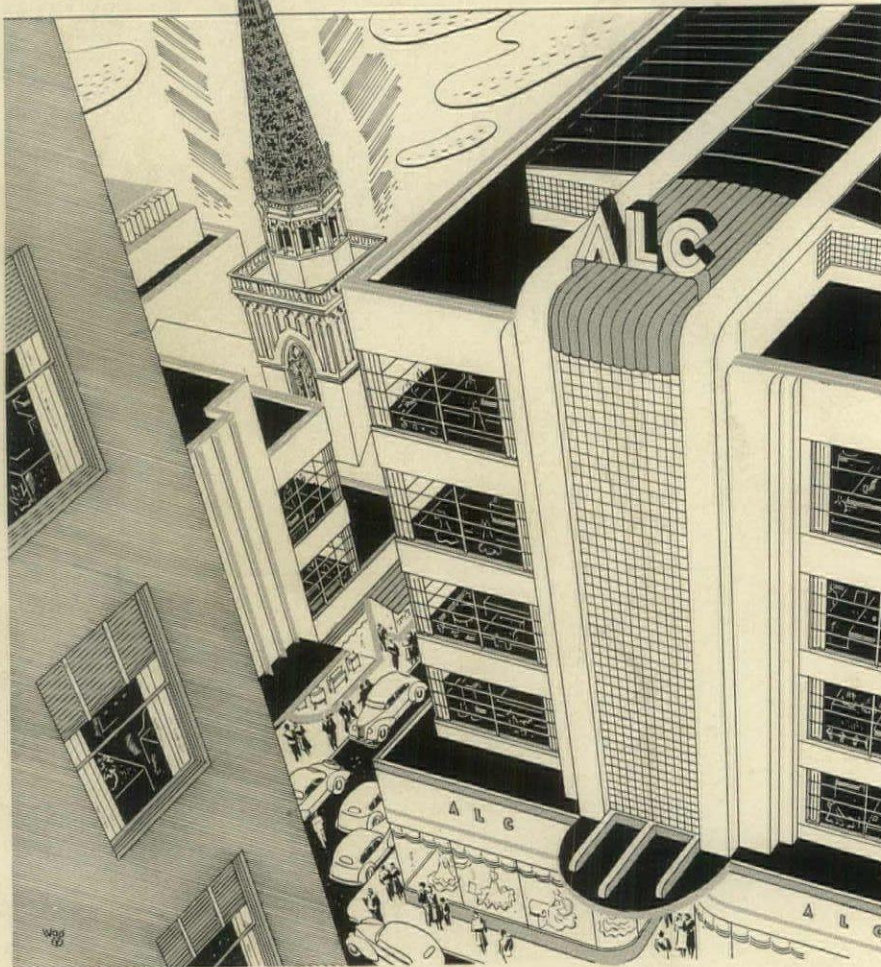
TYPICAL APPLICATIONS OF EXTRUDED SHAPES



Coping for Parapet Wall



Section of Skylight Bar



ON THE ROOF

Copings of Alcoa Aluminum extruded shapes and sheet make neat, inexpensive, watertight caps for roof edges and parapet walls. Skylights fabricated from Aluminum shapes have a simplified construction and give lasting trouble-free service.

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Aluminum windows and sills mean much more than an attractive, modern touch. They are money savers. Low in cost, they never need painting, cannot rust or rot, swell or warp. They give maximum glass area.

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Bright and attractively modern building fronts of Aluminum beckon to the casual passer-by. Give visual promise of finer things, whether they be services or goods for sale.

Aluminum is light in weight and readily worked, can be assembled and erected economically. It is highly resistant to weathering, needs no painting, and greatly furthers economy in building maintenance. Aluminum Company of America, 2147 Gulf Building, Pittsburgh, Pa.

ALCOA  ALUMINUM