

Help For the Man Who Wants to Build

Chimneys and Fireplaces in Home Planning

By The Architects' Small House Service Bureau of the United States, Inc.

Well pointed, well built chimneys are essential to the structural qualities of the home as a firm foundation, while the fireplace has been the symbol of home and happy family from time immemorial.

Good chimneys, whether located on the interior or exterior of the buildings, always rest on solid concrete footings extending well below maximum frost penetration and of sufficient width and thickness to carry the weight of the chimney without danger of settlement.

Chimneys should never be carried upon wooden floor beams or iron brackets or hung from rafters, joists or other wooden members. When the chimney forms a part of the wall of the house, the chimney block must be securely bonded into it. Chimneys better if carried at least two feet above the ridge of sloping roofs and in cases of flat or nearly flat roofs, at least three feet above.

Proper Proportions of Fireplace. Careful proportioning of the fireplace opening is necessary for successful operation. The design of the room, its size and height have much to do with the width and height. The depth is determined from the height. If it is desired to burn logs, the width must be adjusted to the height. It should never be less than 21 inches and the ratio of two in depth to three in height should be maintained.

The rear wall of the fireplace should be arched or curved forward to form a wind shelf which deflects down drafts from the chimney and prevents dust and soot from being blown into the room. A damper placed in the throat for regulation of the draft is essential.

A Separate Flue for Each Fire. Successful practice requires the inside area of flues to be not less than one-tenth of the area of the fireplace opening. Thus for a fireplace 30 inches wide and 27 inches high, the area of the opening is 810 square inches. The flue area should be not less than 81 square inches, or 81 square inches. An 8 by 12-inch flue will be satisfactory.

Each fireplace and furnace should have its own individual flue, tiled lined and carried full size to the top of the chimney. Immediately above the damper the sides of the opening are corbelled to the size of the flue opening. It is essential that the flue rise directly over the center of the fireplace for at least two or three feet; it may then be corbelled over to the location desired. Sharp bends in the flue should be avoided.

Chimney stacks may be built of brick or concrete. Fireplaces should be faced with some aerial in keeping with the architecture of the house. Often the use of color at this particular place gives an effective accent to the room. For this purpose there are available clay or concrete brick, cast stone, tile, marble and slate. In any case, the choice of the material should bear definite relationship to the architect's design. Let the home builder realize that the use of crude and ungainly masses of masonry of any kind in the fireplace front are more than likely to be in bad taste. Copyright 1929, "The Architects' Small House Service Bureau of the United States, Inc."

A Practical Five-Room Bungalow



Straightforward Inexpensive Type

All around the environs of our cities can be found five room bungalows. It is a favorite type of plan for people who must build at the least expense. A study of these houses brings out clearly that the typical arrangement is living room, dining room and kitchen in row on one side of the house and two bedrooms and bath on the other.

This design, 5-K-24, is in this practical layout of plan that has arisen from the practical needs of thousands of home builders, now worked out architecturally by competent designers. This arrangement is just about as much as can be done with a five room bungalow. It is simple and straightforward and involves the least expense not only of building but from the point of view of the one who must spend her energy in housekeeping. Undoubtedly people occupying houses of this kind do their own house work. It is only fair to give these people houses that will not be difficult to maintain.

There is good space in this little house. The living room is more than 16 feet in length and more than 12 feet in width. Set continuously with the dining room and separated only by a plastered arch, it has the appearance of a much larger room. The dining room is long and narrow in shape, providing good space for furniture and seating for quite a number of people. The kitchen is the kind known as the "turning and reaching" type. A person standing before the work table at the side of the sink will find water, range, and food supply within a step. The refrigerator in the rear entry is also conveniently at hand.

Two bed rooms are well proportioned and of good size with commodious closets and with necessary cross ventilation. The hallway separating these rooms leads to the bath. Thus the bedroom quarters are properly set apart from the living quarters of the house, as they are in every well designed bungalow.

The housekeeper will be quick to observe the excellent linen closet in the hallway, the coat closet in the vestibule, the built-in niche and shelves for books at the side of the fireplace, as shown in the little

sketch, and the handsomely designed fireplace inexpensively constructed of cast stone.

There is a recreation room with a fireplace underneath the living room. The exterior speaks for itself. Commonplace five room bungalows that have become so abundant on our city streets find no counterpart in the architecture of this beautiful cottage. It is finely modeled and will prove to be a delight to any one who sees it. The gracefully moulded doorway and the broad windows equipped with steel sash add greatly to the charm of the exterior.

Construction: Concrete masonry, exterior finish stucco. Roof of cement asbestos shingles. First floor slab of reinforced concrete. Lot size: Approximately 40 feet. Facing: Designed for west or north facing.

Complete working plans may be obtained for this and other designs shown in this series. For further information see editor's note.

EDITOR'S NOTE: Working drawings and specifications for the house shown above may be secured at through the Home Building Editor. This service is presented to our readers in cooperation with the Architects' Small House Service Bureau. The Bureau is controlled by the American Institute of Architects and has the endorsement of the United States Department of Commerce. Plans and specifications for this and other designs shown in this series will be sent to our readers free of charge by the technical department of the Architects' Small House Service Bureau. Address the Home Building Editor, enclosing a stamped, addressed envelope.

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What You May Want to Know About Building

Questions addressed to this paper will be answered by the Architects' Small House Service Bureau of the United States, Inc. Enclose a stamped addressed envelope.

Q—We want to make brick steps in front of our house. What kind of brick would we have to use? Do they have to be pavers?

A—Use ordinary hard burned red brick for the steps. Set them in good cement mortar. They do not have to be pavers.

Q—What is the best material to use to make concrete waterproof?

A—The best waterproofing of concrete is more cement. If you are inquiring about a wall now in place, there are various types of waterproofing to be used, depending upon conditions, whether or not water pressure is present. Have your walls inspected by a competent builder.

Q—I have some old bricks that have stood the elements for fifty years. Would it be possible to employ them in the building of a dwelling for outside walls with painted finish? Please tell me also what is the best paint to use and where I can get it?

A—Bricks that have stood up well for fifty years will probably stand up well for ten times that period. You can use them on the outside of your wall very well, especially since they are to be painted. The names of brick paint manufacturers are being sent by letter as trade names cannot be mentioned in this column.

Q—Water backs up in my basement from the sewer. There are no traps in the basement drains. If I install these will it stop the water from backing up into sinks and basement toilet?

A—Traps in your basement drains will not stop the sewer from backing into your house. The only way to accomplish this would be to install valves that will close against back water pressure either automatically or by hand. Ask your plumber.

Q—We replaced some broken plaster with plaster board, putting strips of paper two inches wide over the joints. After the wall paper was put on the joints showed. We now desire to have it repaired. What can we do to keep the joints from showing?

A—The boards should be set very close together, the joints filled with special plaster made for the purpose. We now desire to have it repaired. What can we do to keep the joints from showing?

Q—Our living room is very drafty and uncomfortable when sitting in certain places in the room. At one end of the room is a doorway to the upper floor. There is a large radiator in the room. What can be done to make the room comfortable?

A—A radiator at the foot of the stairs will help. Good results can be obtained by installing a door at the head of the stairway or on a landing. Keeping bedroom doors closed will help. Install storm sash and weather strips on any window opening along the stairs.

PRESIDENT'S SON IS A FIRST LIEUTENANT

WASHINGTON, June 26.—(AP)—It is now First Lieutenant Herbert Hoover, Jr.

The son of the president today was given that rank in the specialist reserve of the army.

The name of the son of the president moved through the machinery of the war department in the usual way, and the appointment was announced along with 500 others.

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NAME COMMITTEE ON WATER QUEST AT JACKSONVILLE

JACKSONVILLE, Ore., June 26. (Special.)—A committee of five, A. R. McIntosh, Geo. Little, Bill Ray, Attorney Gaylord and V. T. Wilson, was appointed at the mass meeting Tuesday evening, which was held at the U. S. hall. The committee were to confer with the Medford city council and also Oak Grove district committee to see what steps could be taken to get the Medford water in our city.

Mrs. Mattie Wilson was a dinner guest of Mrs. Ginn at Medford Saturday. Mrs. Ginn and she attended a show at the Craterian theater in the evening.

The Rebekah lodge will hold installation of officers next Monday evening at their hall for the coming year, and wish all members to attend. Ice cream and cake will be served after installation.

Mr. and Mrs. Jim Stewart and 15-year-old daughter, Bettie, of South Dakota, are visiting at the Louis Neidermeyer home on the west side district.

Arthur King, boy soprano, of Chicago, who is visiting with his uncle, Rev. Bill Ray, sang several solos at the Shrine luncheon at the Medford hotel given in honor of the imperial master of the Shrine lodge Monday noon. He was accompanied at the piano by Ruth Severance.

Mrs. John L. Knight left Sunday evening for Astoria, where she will spend the summer with relatives.

George Maxwell is making quite extensive improvements in his home on South Fourth street.

Mr. and Mrs. Earl Cody and little son and granddaughter, of Klamath Falls, were visitors at the S. E. Dunnington home Sunday evening.

Tiny Combest was here from Klamath Falls over the week-end visiting home folks.

Mrs. Ethel King and son, Arthur, who have been visiting at the Rev. Bill Ray home the past ten days, left Monday evening for their home at Chicago.

Mrs. George Tranta from camp 3, Butte Falls, is spending the week with her sister, Mrs. Fred Fletcher.

Alfred Norris and family, Stanley Grimes and Ernest Olson spent

Sunday on Little Applegate fishing.

Mrs. Julia Beckman and daughter from Portland, came here Friday to spend the summer at their old home here. They were accompanied by their son and brother, Attorney Ben Beckman.

Rev. Robert Hutchinson of Portland called on his old-time friends, Miss Alice Hoefs and Miss Jessie McCully, Sunday afternoon. Mrs. Mamie Venable returned to her home here Wednesday from Silverton, Ore., after a visit of three weeks with her sister here.

Mr. and Mrs. L. A. Johnson and family and friends visited Diamond lake Sunday.

Mrs. Eric White and children returned Friday from a week's visit in Ashland with Mr. White's parents.

Mr. and Mrs. Oscar Lewis and sons, Ray and Robert, spent Sunday at Ferguson Springs.

John Dunnington took his father and mother and his daughter and two little nephews, Roger and Billy Dunnington, for a trip to Gold Hill Sunday afternoon.

Carol Lewis returned home Friday after spending three weeks visiting on the Applegate.

Ma. H. N. Lofland and daughters of Medford and Miss Wilma Cople of Murphy were guests of Mrs. A. G. Lewis Thursday.

Mr. and Mrs. John Dunnington and daughter, Margaret, departed Monday morning for Roseburg to visit Mrs. Dunnington's brother, Clarence Reeves, and family.

Harold Reed and wife of Klamath Falls came over Saturday evening and visited at the T. E. Dunnington home until Sunday evening, when they returned home, taking little Tommie Dunnington with them for a visit.

Mr. and Mrs. Geo. O. Walter of Oakland, Calif., accompanied by Mr. and Mrs. John Dehmer of Medford and Mr. Walters' and Mrs. Demmer's mother, Mrs. Anna Walters, were visitors in our city Wednesday.

Shoots at Consul. BERLIN, June 26.—(AP)—M. Binet, French consul here, had a narrow escape from death today when an excited Lithuanian woman fired at him several times in the French consulate. A porter caught the woman's arm and the shots went wild, lodging in the ceiling of the room.

Wall Walla, Wash., June 26.—(AP)—Increasing its gas distribution system to seven plants in three states, serving nine cities and towns, the Northwest Cities Gas company yesterday announced the purchase of the gas plants and distribution systems in Eugene, Springfield, Marshfield and North Bend, Ore.

MISS ENYART OF JACKSONVILLE IS BRIDE OF WEEK

JACKSONVILLE, Ore., June 26. (Special.)—Miss Ethel Enyart of this place and Ivan Shuck of Ashland were united in marriage Monday, June 24, at Yreka, Calif.

They left from here Monday evening for the coast, where they will spend their honeymoon. The bride was a graduate this year of the Medford high school. Mr. Shuck is a mechanic at the Ashland Iron works, and the young couple will make their home in Ashland. Miss Enyart's many friends here wish her much happiness.

Miss Juanita Wiley of Berrydale district motored over in her new Star sedan to visit her aunt, Mrs. Nettie Jones, one day this week.

Lane Lilly, state food inspector from Tennessee, was a visitor at the Ellick Norris home Monday.

Roberta Alexander of San Francisco was a guest of her old schoolmate, Francis Haight, Wednesday.

Mr. Flint of Corvallis has purchased the house of W. A. Childers on North Fourth street, adjoining the Childers home.

Rev. McVint was transacting business here Monday.

Roy Martin entertained his Sunday school class of the Presbyterian church Saturday afternoon with a trip to Applegate, where they enjoyed a picnic supper. All reported a good time.

Mrs. C. E. Chitwood and daughter, Dorothy, returned Sunday evening from San Francisco, where they have been visiting for a short time. Mrs. Chitwood's sister, Miss Evelyn Applegate, accompanied them home and will spend a few days here.

Mrs. Nora Cox and two children of Weiser, Idaho, arrived here Friday to visit a short time with her aunt, Mrs. Charley Vogle, and other relatives in the valley.

Mrs. Irene Crump of Applegate was visiting friends in our city Wednesday.

Mrs. Susanne Holmes Carter, Mrs. John Norris, Mrs. Chris Keegan, Mrs. Nettie Thompson and Mrs. Ethel Olson and daughter, Violet, attended the lecture in Grants Pass Thursday evening.

Many of our local people took picnic dinners Sunday at different points on the Applegate, and also enjoyed swimming.

Miss Eunice Sanden spent sev-

eral days the past week visiting her little friend, Phoebe Ferguson, at Medford.

Mrs. Beanie Miller and children and Lavonne Tonner motored to

Ashland Friday and spent the day with Mrs. Nellie Madden, Miss Lavonne returning to her home after spending the week visiting at the Miller home here.

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