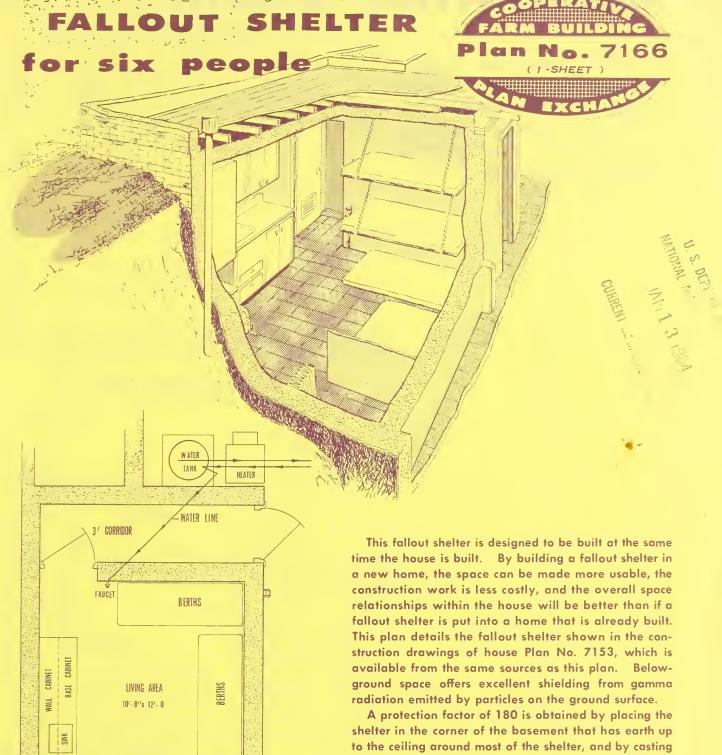
A 984711 Cof. 3



Washington, D.C.

Issued December 1963

DRAIN

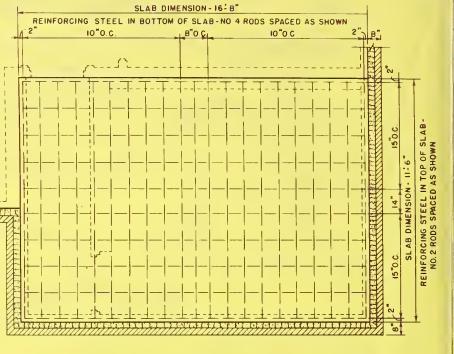
an 8-inch concrete barrier overhead. The protection factor can be increased to as much as 330 by increasing the overhead barrier to a 12-inch concrete slab. With

an 8-inch overhead slab, 95 percent of the radiation

inside the shelter enters from overhead.

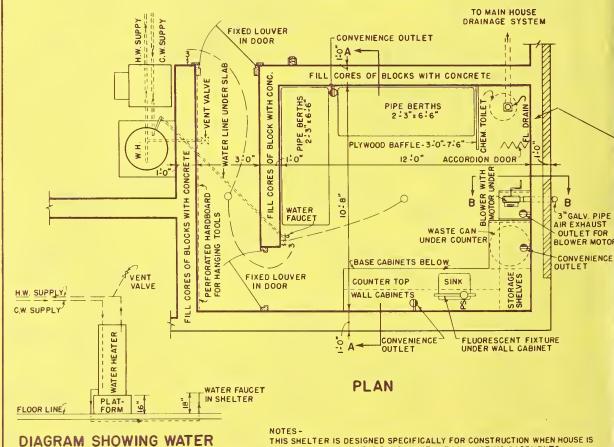
Construction details ...

This plan (No. 7166) is shown so the ideas may be incorporated into new house designs other than the specific house plan, No. 7153.



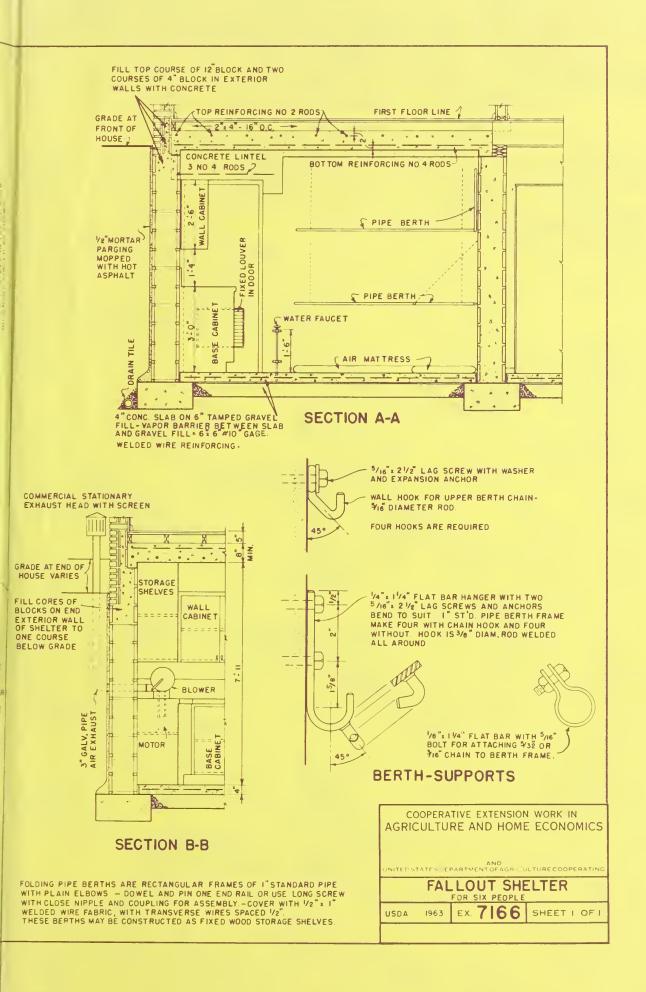
PLAN OF CEILING SLAB

SHOWING REINFORCING

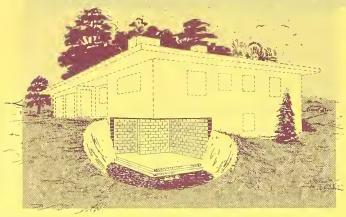


SUPPLY FOR SHELTER

THIS SHELTER IS DESIGNED SPECIFICALLY FOR CONSTRUCTION WHEN HOUSE IS FIRST BUILT AND NOT FOR PLACEMENT WITHIN EXISTING BASEMENTS.
SINK TO BE PROVIDED WITH HOT AND COLD WATER AND DRAIN ON MAIN HOUSE LINES FOR USE WHILE ELECTRICITY IS AVAILABLE.



shelter located in a protected area



This illustration, showing the location of the shelter, emphasizes the importance of utilizing the corner of the basement that is banked with earth.

The entire basement does not have to be below grade to make the shelter effective. In this design, the basement has two bedrooms, a bath, and a recreation room that are adequately lighted and ventilated with abovegrade windows.

Portions of the basement below grade are used for the fallout shelter, a storage room, a utility room with the heating plant and hot water heater, and a television viewing room.

USING THE SHELTER

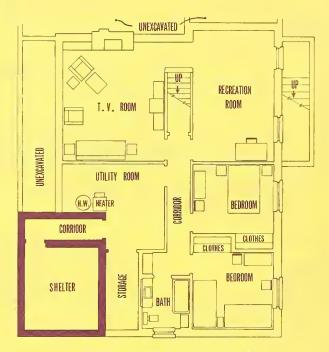
Use of the fallout shelter will depend upon the specific needs of the owner. Since it has a sink, it could be used as a darkroom for either amateur or professional photographic processing. If the power supply is not disrupted during an emergency, the sink will be a valuable aid for more comfortable living in the shelter. Instead of foldup frames, many people may prefer to put permanent storage shelves along the wall where the bunks are shown. The shelves can be used for storage until they have to be used as bunks.

The shelter is close to the hot-water tank. If a larger water supply is needed, a tempering tank can be placed in the water supply line to the hot-water heater. The tempering tank is uninsulated so that the water supply to the hot-water heater will be warmed or tempered before it enters the hot-water heater. The water in the tempering tank can be drawn from the emergency faucet in the shelter. The tank can be large enough to supply the family needs.

For emergencies, piping is arranged to draw water from the bottom of the elevated hot-water tank to a faucet in the shelter. To draw the water, air must be admitted to the hot-water heater tank. To eliminate the necessity of going out of the shelter to open a faucet to let air into the tank, a valve to open to a pipe into the top of the heater is installed in the shelter entrance.

Air intake to the shelter is through louvers in the entrance doors. An exhaust blower can be used to forcibly draw air through the louvers into the shelter.

The basement plan of this house shows the advantages gained by planning a shelter for new construction. The



BASEMENT PLAN NO. 7153

shelter is adjacent to a storage area. The bath is close, so it can be used by the occupants for short periods as soon as radioactive decay permits. As decay increases with time, living can be expanded—first to the better sheltered TV room and utility rooms, and later to the bedrooms and recreation room.

Large-scale working drawings may be obtained through your county agent or from the extension agricultural engineer at most State agricultural colleges. There is usually a small charge.

ORDER PLAN NO. 7166, FALLOUT SHELTER FOR SIX PEOPLE

If the large-scale drawings are not available in your State, write to the U.S. Department of Agriculture, Agricultural Engineering Research Division, Plant Industry Station, Beltsville, Md. The U.S. Department of Agriculture does not distribute drawings, but will direct you to a State that docs distribute them.

USE SAME METHOD FOR ORDERING FARMHOUSE PLAN NO. 7153.