

3-BAY PLAN
MOST ROOF FRAMING NOT SHOWN

ALL LUMBER TO BE FULL SIZE ROUGH SAW,
PRESSURE-TREATED WITH PRESERVATIVE

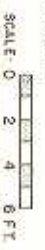
FASTENINGS AND OTHER STEEL PARTS
SHALL BE HOT-DIP GALVANIZED

COOPERATIVE EXTENSION WORK IN
AGRICULTURE AND HOME ECONOMICS
DEPARTMENT OF AGRICULTURAL ENGINEERING
UNIVERSITY OF MARYLAND

UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

BUNKER-TYPE FALLOUT SHELTER
FOR BEEF CATTLE

USDA '63 EX 5950 SHEET 1 OF 2



EARTH OR GRAVEL
FILLED ENTRANCE
BAY IS 5'-0" HIGH.
POSTS ARE 4" x 8" x 8"
WITH 2" SIDE PLANKS.
1" BOARDS MAY BE
USED FOR ENDS.
BACKFILL AGAINST
BUNKER TO FULL
HEIGHT AT UPPER END

TIGHT STRINGS-TIED
BAYETS OF WOOD PILED
ABOUT 6 FT HIGH
BOTTOM LAYER MAY
BE DAILED WEEDS

CONCRETE FOOTINGS
20" x 20" x 8"

CONC. FOOTINGS
22" x 22" x 8"

ALL GIRDERS HAVE ONE MEMBER
5'-0" LONG AT EACH END ON OP-
POSITE SIDES. ALL OTHER MEMBERS
ARE 19'-0" LENGTHS AS SHOWN.

ALL POSTS ARE 4" x 6"
SPACED 8'-0" O.C. IN
BOTH DIRECTIONS

1" x 8" BRACES NAILED TO SHEATHING
AND RAFTERS AFTER ROLL ROOFING
HAS BEEN APPLIED LAMIN PLASTIC
AT EACH CORNER OF THE ROOF

2 1/2" x 10" BLOCKING, EACH
END OF INNER GIRDERS
BACKFILL TO FULL HEIGHT
AT UPPER END

POST FOR PARAPLET PLANKS

2" PLANK RETAINING WALL

REMOVABLE
2x8 RAFTERS

A

TOP OF SANDFILLED BANK

FLOOR LINE

WATERING TANK

SANDBAGS HERE, TO
SUPPORT BACKFILL

SCALE: 0 2 4 6 FT.