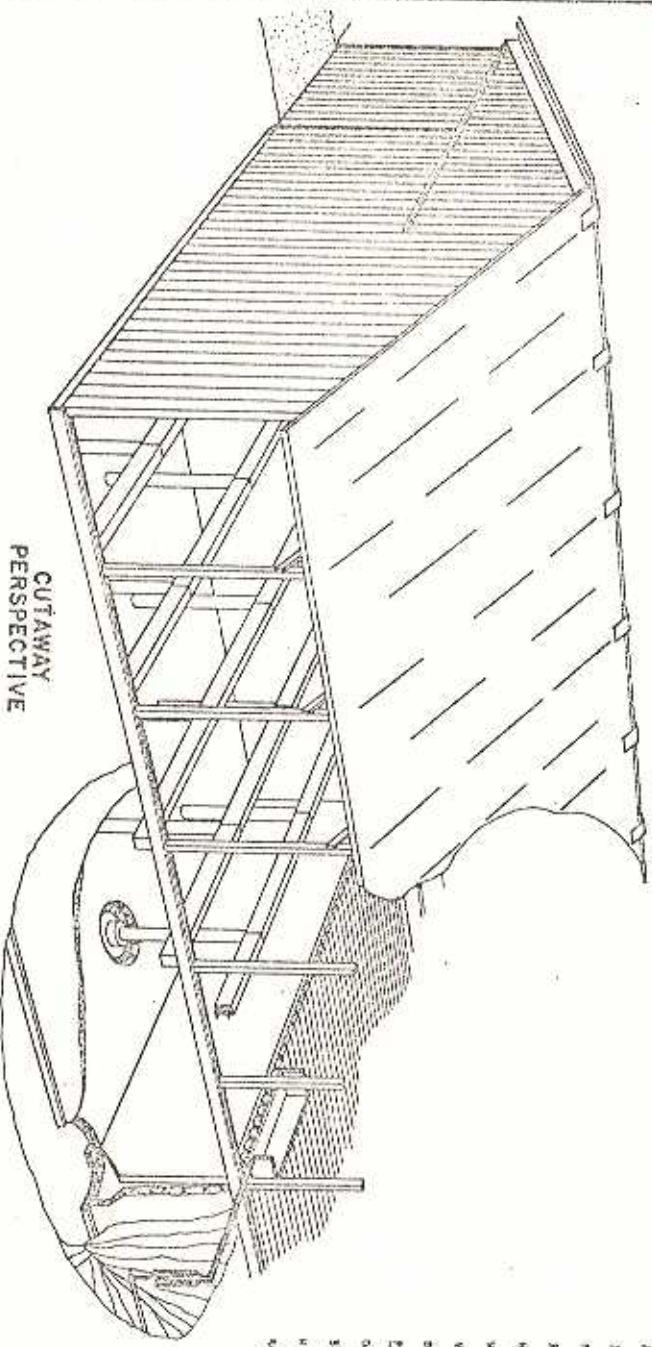


FLOOR AND FOUNDATION PLAN



CUTAWAY PERSPECTIVE

CONCRETE BARN NOTES

**CROSS WALLS:** REINFORCED FOR A PRESSURE OF 60 P.S.F.-PLUF.

**REINFORCED WALLS:** REINFORCED FOR A PRESSURE OF 60 P.S.F. WITH WATER MAINS AGE (EQUIV. OF 20 P.S.F.-PLUF). IF OTHERS WATER TABLE AT BUILDING SITE IS MORE THAN 2' ABOVE PIT FLOOR LEVEL, INSTALL FOOTING TILE AND STOP PIPE TO RELIEVE PRESSURE OR CHECK WITH ENGINEER FOR DESIGN OF ADDITIONAL REINFORCING.

**WALL THICKNESS:** AN 8" THICK WALL ABSORBS MORE STRESS THAN A 6" THICK WALL BECAUSE OF RELATIVELY EXTENSIVE EXPANSION-CONTRACTION AND THE WOUNDS OF CONCRETE. AN 8" THICK WALL NOT STIFF IN UNDER LOW WINDS IN DIFFICULTY OF PLACING STEEL AND CONCRETE IN A FORM.

**PRECAUTIONS:** THIS DESIGN IS MADE FOR WIND BUILDING STRESS. THE GREATEST DANGER OF A WALL FAILURE IS DURING BACKFILLING. BEAMS AND SLATS SHOULD BE IN PLACE BEFORE BACKFILLING. TEMPORARY BRACING COULD BE GIVEN TO HELP WITHSTAND WATER PRESSURE FROM A HEAVY RAIN OR VEHICLE WHEEL LOADS DURING BACKFILLING.

BASED ON PLAN NO. 567  
UNIV. OF ILL.

COOPERATIVE EXTENSION WORK IN  
AGRICULTURE AND HOME ECONOMICS

UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS

CONFINEMENT BEEF BARN  
REAR DRIVEWAY GABLE ROOF  
ILL. '73 G150 SHEET 1 OF 3