

NOTES:

1. NOTE ABOUT EFFECTS OF AN EQUIPOTENTIAL PLANE: IF THE FLOOR IS AT THE SAME POTENTIAL AS THE CONDUCTIVE EQUIPMENT AND ANY STRUCTURES ACCESSIBLE TO THE ANIMAL, STRAY VOLTAGE PROBLEMS CANNOT EXIST. THIS CAN BE ACCOMPLISHED BY PLACING A BONDED NETWORK OF WELDED WIRE MESH IN THE FLOOR. ANY ANIMAL STANDING ON A FLOOR CONTAINING A PROPERLY INSTALLED EQUIPOTENTIAL PLANE WILL HAVE ALL POSSIBLE CONTACT POINTS AT OR VERY NEAR THE SAME POTENTIAL.
2. BOND NO. 4 COPPER WIRE TO 6" x 6" (UP TO 12" x 12" IS OK) WIRE MESH IN CONCRETE FLOOR, 2 OR 3 TIMES PER EACH CONT. SECTION OF MESH.
3. IF THERE IS A POSSIBILITY FOR ENERGIZING DUE TO A LOCAL ELECTRICAL FAULT SUCH AS ELECTRIC EQUIPMENT NOT BEING PROPERLY GROUNDED, THEN STEEL POSTS, GATE POSTS, SUPPORT POSTS, FEEDER BRACKETS, ETC., SHOULD BE GROUNDED ACCORDING TO THE NATIONAL ELECTRIC CODE.
4. ANGLE IRON GRATE SUPPORTS FOR FLOOR DRAINS TO BE BONDED BY RESISTANCE WELDING AT 2 OR MORE POINTS FOR EACH CONT. SECTION.

5. 6" x 6" WIRE MESH ON FLOOR OF PIT CONNECTED AT 2 POINTS TO MESH IN CON. PLATFORM FLOOR.
6. WIRE MESH TO HAVE A PROTECTIVE CONCRETE COVER TO PROTECT MESH FROM CORROSION OR DAMAGE (1" IS SUFFICIENT, BUT 1 1/2" IS BETTER).
7. 1/4" ROUND STEEL ROD WELDED (RESISTANCE OR EXOTHERMIC) TO FEEDER, EXTENDING DOWN TO WIRE MESH. WELD OR BRAZE 1/4" ROD, MESH, AND NO. 4 COPPER GROUND WIRE TOGETHER. INSTALL 2 RODS PER SIDE OF PARLOUR PROVIDED THAT ALL FEEDERS ARE INTERCONNECTED BY METAL PARTS. NOTE: CONDUCTORS AND CONNECTIONS SHOULD BE LOCATED WHERE THEY CANNOT BE EASILY DAMAGED OR DISTURBED.
8. UNDER SERIOUS CONDITIONS AN ANIMAL MAY BE EFFECTED WHEN IT STEPS ONTO THE EQUIPOTENTIAL PLANE FROM AN AREA BEYOND THE PERIMETER. TO PROVIDE A MORE GRADUAL CHANGE IN VOLTAGE, A VOLTAGE RAMP SHOULD BE INSTALLED AT THE ENTRANCE OR EXIT OF THE EQUIPOTENTIAL PLANE. (SEE VOLTAGE RAMP DETAIL)

THIS DRAWING IS NOT INTENDED TO SHOW STRUCTURAL, MECHANICAL, OR ARCHITECTURAL DETAILS. IT SHOULD ONLY BE USED FOR MILKING PARLOR GROUNDING DETAILS.

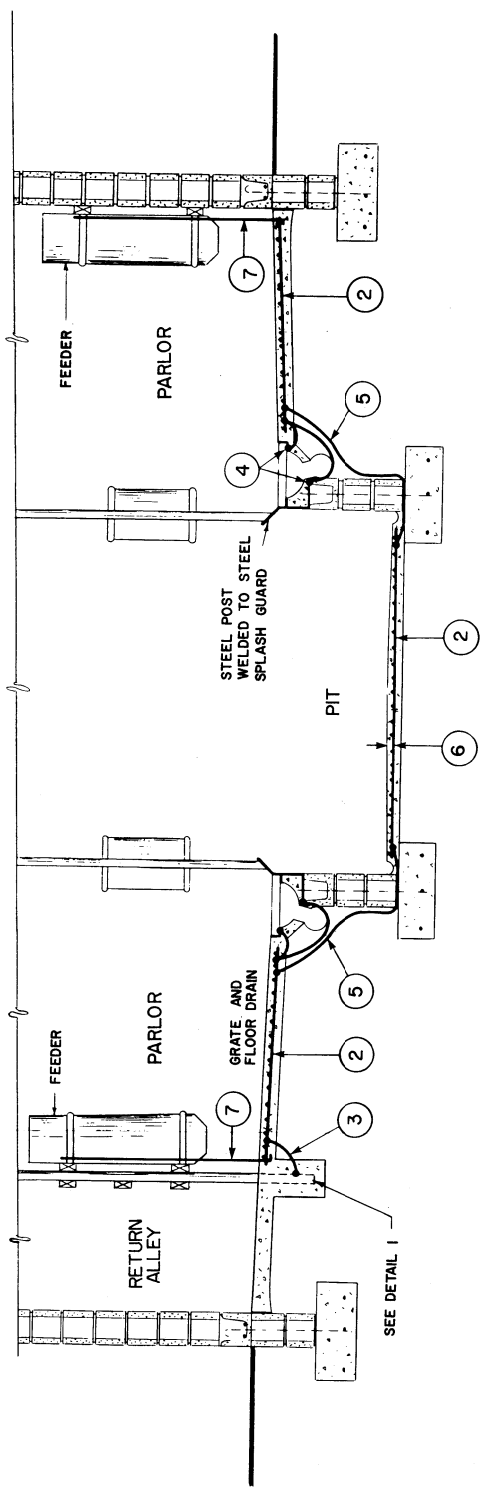
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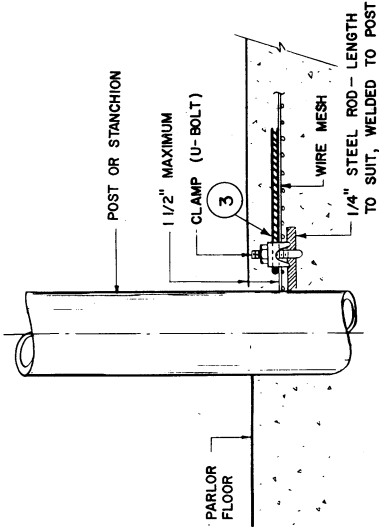
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MILKING PARLOR GROUNDING METHOD

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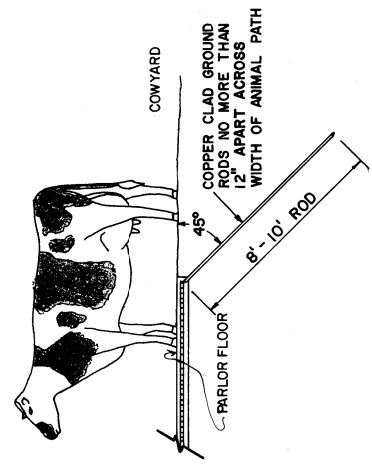


CROSS SECTION



WIRE MESH, GROUND ROD, AND 1/4" STEEL ROD ALL CLAMPED TOGETHER TO ENSURE CIRCUIT CONTINUITY.

OPTIONAL TECHNIQUE FOR BONDING PARTS
(see notes)



VOLTAGE RAMP DETAIL

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