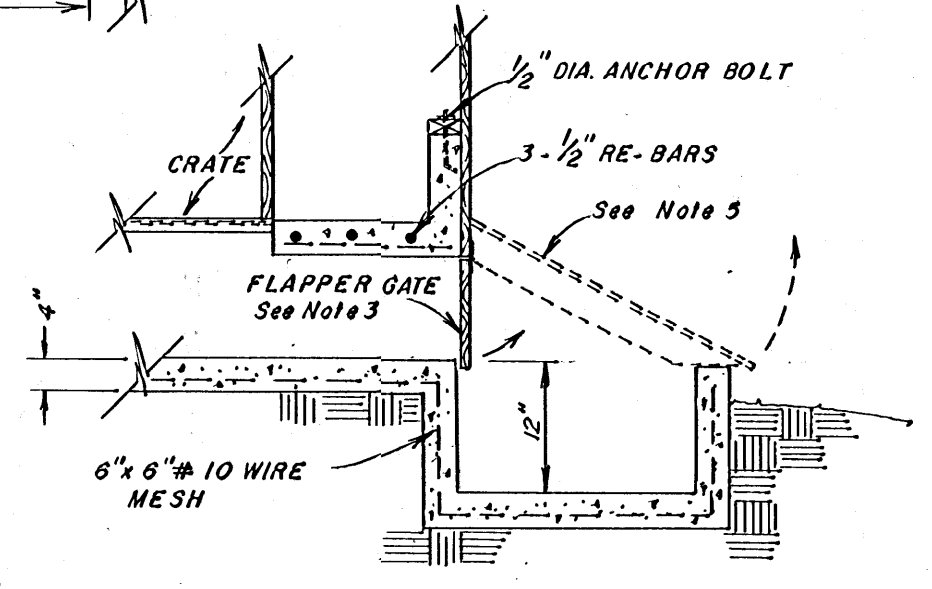


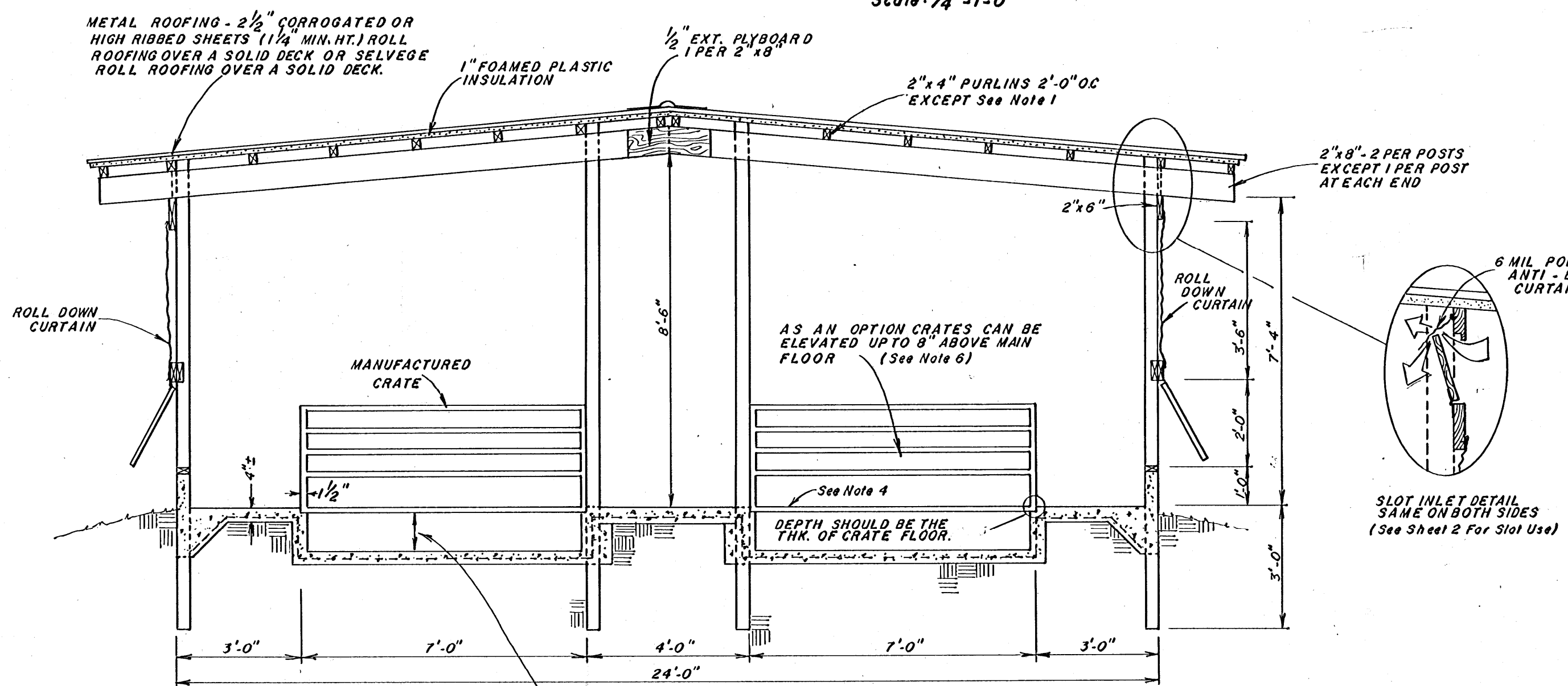
- NOTE 1. THIS BAY CAN BE EITHER 6 FT. OR 10 FT. ODDING. USE 2" x 4" PURLINS FOR 6 FT. SPACING. USE 2" x 6" FOR 12 FT. SPACING.
- NOTE 2. A SLOPE OF 1% IS ADEQUATE FOR A GUTTER LENGTH OF UP TO 80 FT. IF 30 GALLONS PER FOOT GUTTER WIDTH IS PROVIDED IN DUMP TANK CAPACITY.
- NOTE 3. FLAPPER GATE SHOULD BE MADE OUT OF LIGHT WEIGHT MATERIAL. GATE SWINGS UPWARD AND OUT OF WAY DURING FLUSHING. RETURNING TO DOWN POSITION WHEN WATER IS PASSED. THE GATE SHOULD BE LIGHT ENOUGH THAT THERE BE NO ACCUMULATION OF SOLIDS ON THE UPSTREAM SIDE OF THE GATE. THIS GATE IS NECESSARY FOR PROPER FUNCTION OF THE VENTILATING SYSTEM.
- NOTE 4. CRATE FLOOR GALVANIZED WOVEN WIRE 3 OR 5 GAGE 5/16" OR 3/8" x 1 1/2" MESH. FOLLOW MANUFACTURER'S RECOMMENDATION FOR FLOOR SUPPORT. SUGGESTED - 12" EACH WAY UNDER SOWS FEET. 12" ONE WAY IN OTHER AREAS.
- NOTE 5. OPTIONAL METHOD OF COVERING CATCH BASIN. USE 3/4" EXT. PLYBOARD MAKE AIRTIGHT AGAINST BUILDING & ON CATCH BASIN WALLS. IF THIS METHOD IS USED TO CLOSE CATCH BASIN A FLAPPER GATE MUST BE USED AT THE OUTLET FOR PROPER FUNCTION OF THE VENTILATION SYSTEM.

FLOOR PLAN
Scale: 1/4" = 1'-0"



SECTION "BB"
Scale: 1/2" = 1'-0"

- NOTE 6. DRAFTINESS CAN BE BETTER MANAGED DURING COLD WEATHER IF THE END WALLS AND THE PARTITION BETWEEN CRATES ARE SOLID.



SECTION "AA"
Scale: 3/8" = 1'-0"

DEPTH OF FLUSH PIT FLOOR SHOULD BE 12" BELOW CRATE FLOOR AT DUMP TANK. MINIMUM FLUSH PIT DEPTH IS 6" AT THE DUMP TANK IF THE CRATE IS RAISED 8" ABOVE THE MAIN FLOOR.

FLOOR PLAN & SECTIONS		PL. NO. 6225-B
SIXTEEN STALL EXPANDABLE FARROWING HOUSE		
	DESIGN BY LEE MILLER	SHEET 1 OF 2
	DRAWN BY JERRY BINGHAM	
DATE JAN. 31, 1983		

EVAPORATIVE COOLING PAD PROVIDE 1 SQUARE FOOT OF PAD PER - ASPEN PAD - 150 CFM - CELULOSE PAD - 250 CFM

FAN NO. 1

MINIMUM WINTER VENTILATION IS 20 CFM PER SOW AND LITTER. THE CAPACITY CAN BE SUPPLIED WITH 1 OR 2 FANS.

SLOT INLET (See Section "AA") - A SLOT INLET EQUIPPED WITH A 6 MIL. POLYETHYLENE BACK DRAFT CURTAIN OPENED 1/2" - 2" WILL HANDLE THE COLD AND WARM WEATHER VENTILATION. ALSO THE HOT WEATHER VENTILATION IF AN EVAPORATIVE COOLING PAD IS NOT USED. ALTERNATIVE USE OF THE SIDE CURTAINS AND DOORS CAN BE USED TO REGULATE NATURAL AIR MOVEMENT WHEN AND IF MODERATE AND HOT WEATHER FANS ARE NOT BEING USED. THIS IS A TRIAL ERROR ADJUSTMENT.

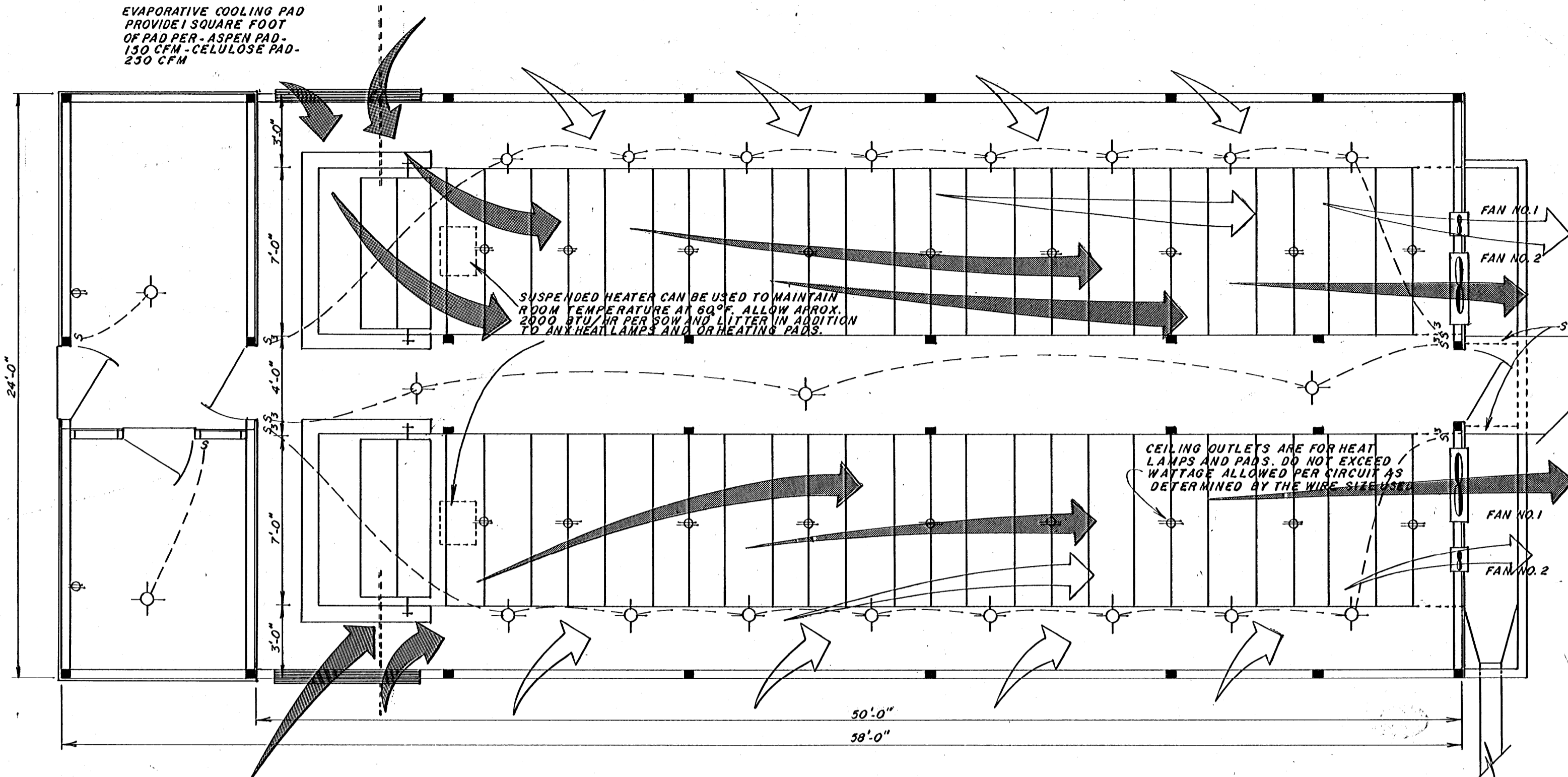
FAN NO. 2

USE A VARIABLE SPEED FAN (FANS) FOR MODERATE AND HOT WEATHER CONDITIONS.

CFM ALLOWANCES PER SOW AND LITTER:

MODERATE TEMP. 80-100 CFM
HOT TEMP (MIN.) 500 CFM

USE THE SAME QUANTITY OF AIR FOR EVAPORATIVE COOLING AS WITHOUT. THE AIR TEMPERATURE REDUCTION EXPECTED PASSING THROUGH THE EVAPORATIVE PAD IS 8°F - 10°F. WHEN THE OUTSIDE TEMP. IS 90°F AND ABOVE.



HEATING - VENTILATION - ELECTRICAL PLAN

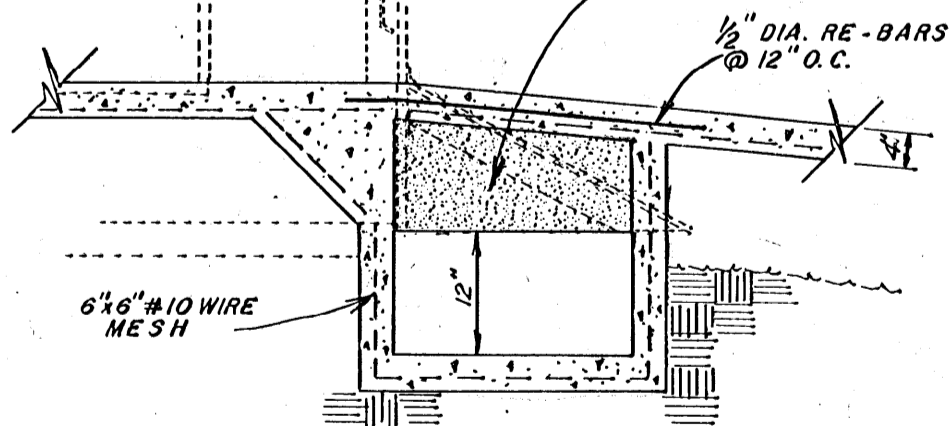
Scale: 1/4" = 1'-0"

LEGEND

COLD AND MODERATE WEATHER AIR MOVEMENT THROUGH SLOT INLET.

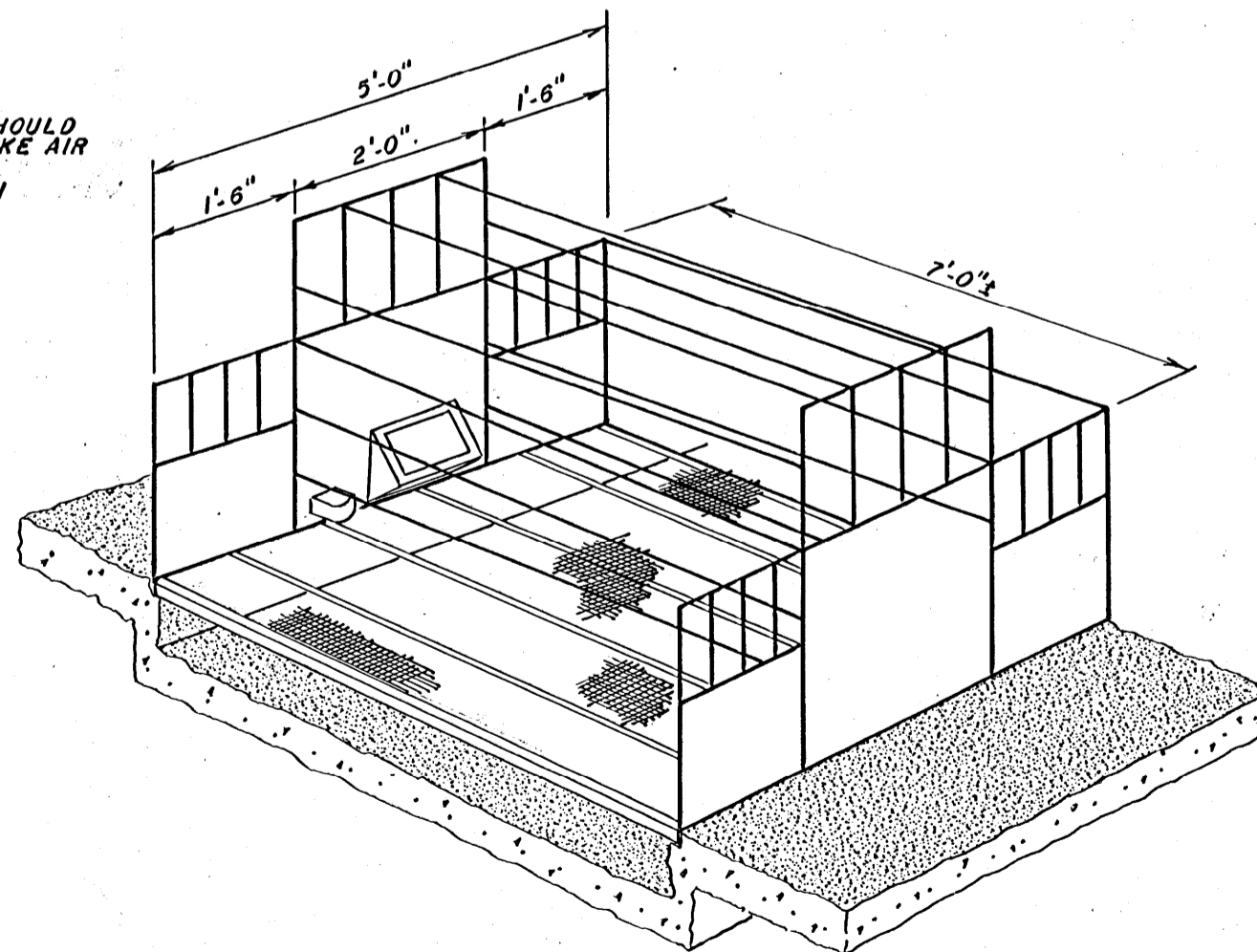
HOT WEATHER AIR MOVEMENT PATTERN THROUGH EVAPORATIVE PAD.

EACH END OF WALK-WAY OVER CATCH BASIN SHOULD BE CLOSED WITH CONCRETE AS SHOWN TO MAKE AIR TIGHT AGAINST COVER OVER CATCH BASIN FOR PROPER FUNCTION OF THE VENTILATION SYSTEM. (See Note 5)



SECTION "CC"

Scale: 1/2" = 1'-0"



TYP. PEN DETAIL

No Scale

ELECTRICAL SCHEDULE	
SYMBOL	DESCRIPTION
S	SINGLE POLE WALL SWITCH
S ₃	THREE WAY WALL SWITCH
⊙	CEILING LIGHT
⊕	DUPLEX CONVIENCE OUTLET CEILING MOUNTED FOR HEAT LAMPS AND HEATING PADS

NOTE: WIRING TO MEET NATIONAL ELECTRIC CODE SPECIFICATIONS

HEATING & VENT. & ELECTRICAL

PL. NO. 6225-B

**SIXTEEN STALL
EXPANDABLE FARROWING HOUSE**



DESIGN BY LEE MILLER

DRAWN BY JERRY BINGHAM

DATE JAN. 31, 1983

SHEET

2

OF 2