BROILER HOUSE WITH AUTOMATIC CURTAINS AND FOGGING

NOTE: THIS PLAN DEPICTS THE USE OF A STEEL BUILDING FOR Poultry HOUSING. IN PRACTICE, THE DETAILS AND ERECTION OF THE STEEL FRAMING SYSTEM WILL VARY AMONG MANUFACTURERS. THIS PLAN SHOULD BE USED IN VISUALIZING DIFFERENCES BETWEEN STEEL AND THE MORE COMMONLY USED WOOD BUILDINGS. WHEN USING A STEEL FRAME SYSTEM, ORDER A STRUCTURE THAT WILL WITHSTAND LOCAL SNOW AND WIND LOADS. ANCHORS ACCORDING TO MANUFACTURER'S SPECIFICATIONS. SIZE OF FURLENS WILL DEPEND ON TRUSS SPACING AND LOCAL SNOW LOADS. ILLUSTRATED SPACING AND SIZES FOR 30 LBS./FT. TOTAL ROOF LOAD.

COOPERATIVE EXTENSION SERVICE
AGRICULTURE AND HOME ECONOMICS

STEEL FRAMED BROILER HOUSE WITH AUTOMATIC CURTAINS, FOGGERS & CEILING FAN

ARK '87 6390 SHEET 1 OF 6
MIN 5/8" DEEP CORRUGATIONS WITH LAP DRAIN 29 GA. WITH MIN OF 1.25# OF ZINC/SG FT

NAILER CLIP
2x4 CLOSURE BLOCK
CORRUGATED SHEET METAL
TWO LAYERS OF 3/4" STYROFOAM (TAPE JOINTS OF FIRST LAYER)
2x4 PURFLANS 24" O.C.
x6 RIGA
METAL RIGID FRAME 10'-0" O.C.
CORRUGATED SHEET METAL
1/2" RIGID INSULATION
x6

1/2" RIGID INSULATION
CORRUGATED SHEET METAL
TOP OF 4' AIRTIGHT CURTAIN
x6
2x4
2x4 TAPERED BLOCK 10'-0"
1" POULTRY WIRE

MODIFIED SECTION
METAL RIGID FRAME 10'-0" O.C.
1" POULTRY WIRE
BOTTOM OF 2x4 TAPERED BLOCK 10'-0" O.C.
x4
2x12
BOTTOM OF 4' AIRTIGHT CURTAIN 30 L.A.F.
BOTTOM OF FRAME 2 1/2" x x/4"
1/2" J-BOLTS
1/2" REBARS
CONC. FOOTING

FOOTING DETAIL
5'-0" FROM METAL FRAME

SCREENED DOOR DETAIL
3/4" METAL DOOR - INSULATED CORE
x6 TREATED THRESHOLD
x6 STOP
2x4 SCREENED DOOR
2x4 POULTRY WIRE
2x12 DOOR FRAME

GATE LATCH - NATIONAL NO 25
2x4 POULTRY WIRE
PLYWOOD GUSSET

TOP VIEW OF TYPICAL SERVICE DOOR

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UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

STEEL FRAMED BROILER HOUSE WITH AUTOMATIC CURTAINS, POULTRY & HEATING FAN

ARK '87 6390 SHEET 2 OF 6
WINTER VENTILATION

POWER TO BOOSTER PUMP AND VALVES

POWER TO 24 VOLT CIRCUIT TO STEP THERMOSTAT (STEP 5)

FROM FUSED DISTRIBUTION PANEL, 3 WIRE NO. 12/GROUND

30 AMP DOUBLE POLE RELAY WITH 24 VOLT COIL

ELECTRICAL SCHEMATIC FOR SUMMER FANS

STEP 1—SET POINT 7 IN.

BROKERS OPERATE 24 HOURS.

SET POINT 10 X 1 HR.

CYCLE CLOCK RUNS AT ALL TIMES.

STEP 2—15' WINTER FAN OPERATE CONTINUOUS.

STEP 3—CONTAINER OPERATE—NORMAL THERMOSTAT SYSTEM FOR TEMPERATURE CONTROLLED.

STEP 4—FIRST SET OF SUMMER FAN OPERATE.

STEP 5—SECOND SET OF SUMMER FAN OPERATE—ACTIVATE FOGGERS

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STEEL FRAMED BROILER HOUSE WITH AUTOMATIC CURTAINS, FOGGERS & CEILING FANS

ARK '87 6390 SHEET 5 OF 6