

REMOTE SENSING BULB FOR THERMOSTAT

CAUTION: HEAT SHIELDS MUST BE INSTALLED TO MINIMIZE FIRE HAZARD.

PLENUM CHAMBER

REMOVABLE BACK PANEL (LINE WITH ALUM. FOIL)

1/8" SLOTS

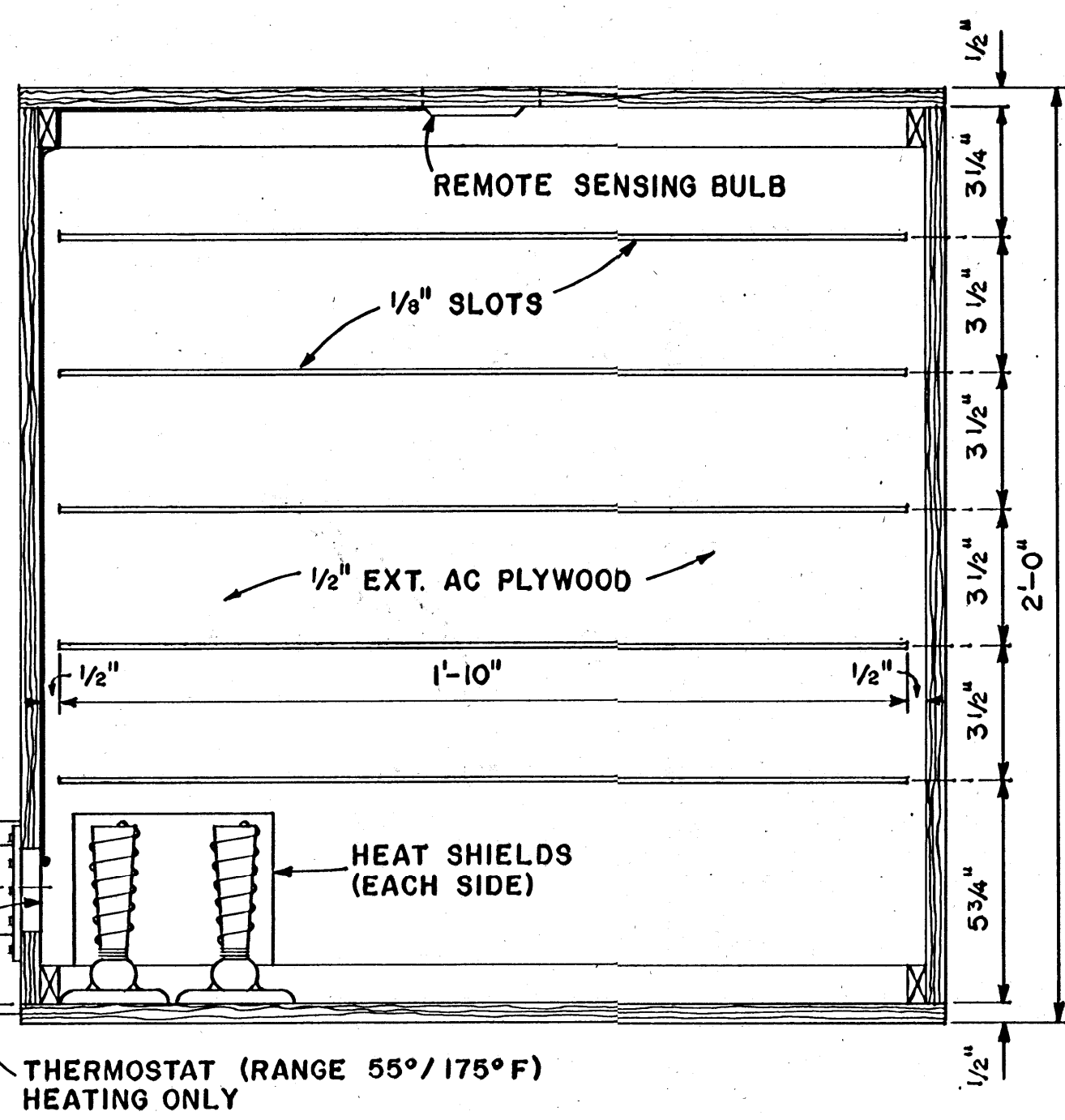
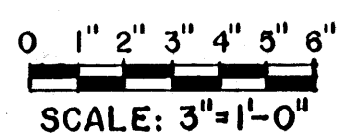
1 KW-110 V. CONE TYPE RESIST. HEATING ELEMENTS.

TWO 5"x4"x16 GA. SHEET METAL SHIELDS

110 V. SURFACE MOUNT PORCELAIN SOCKET

1/45 HP DAYTON MOD. # 2 C781, 115 V.-2870 RPM-R 80 cfm. AT 1/2" s.p.-FAN & MOTOR (CONSTANT RUN)

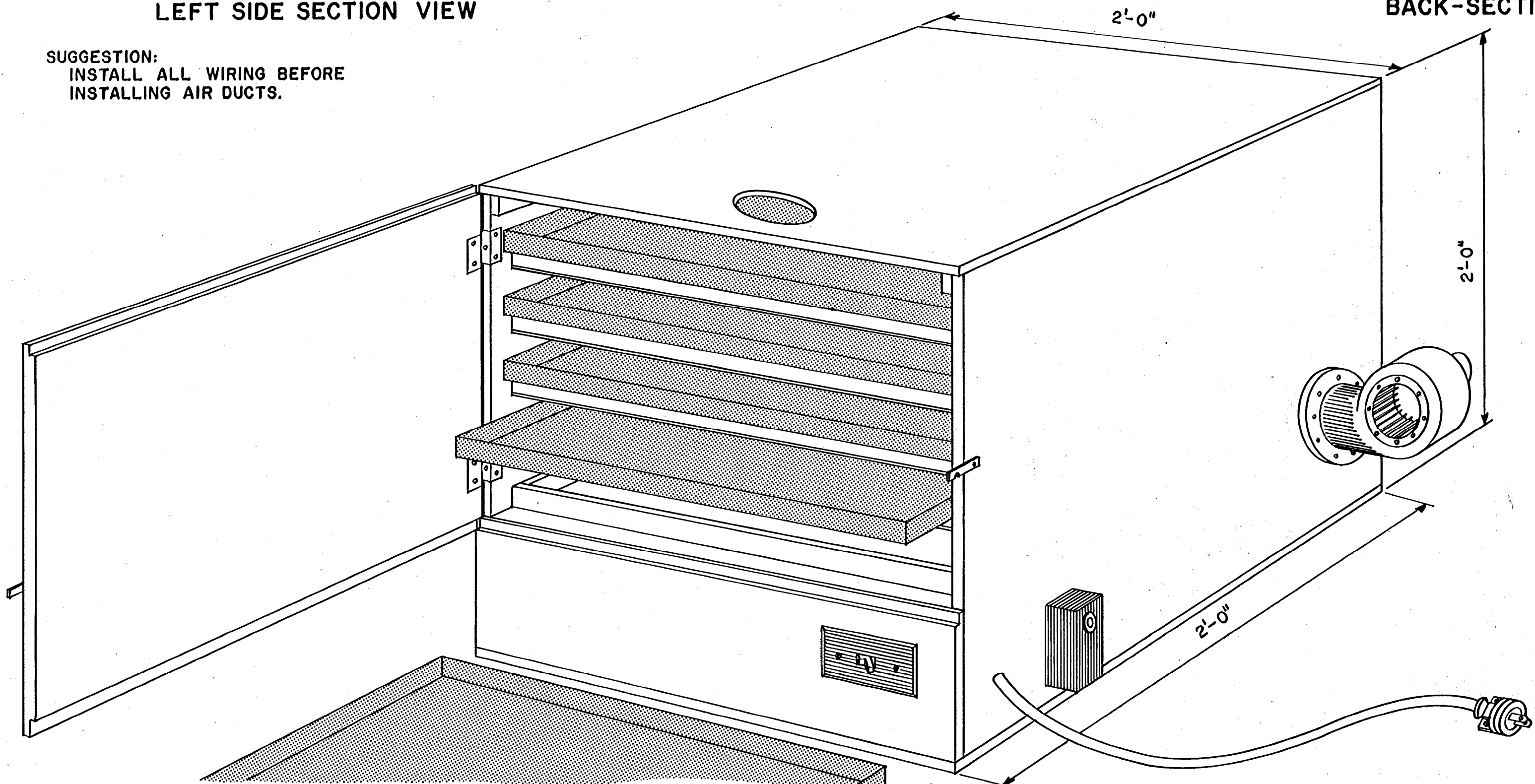
2 1/8" DIA. INTAKE PORT



LEFT SIDE SECTION VIEW

BACK-SECTION VIEW "PLENUM"

SUGGESTION: INSTALL ALL WIRING BEFORE INSTALLING AIR DUCTS.

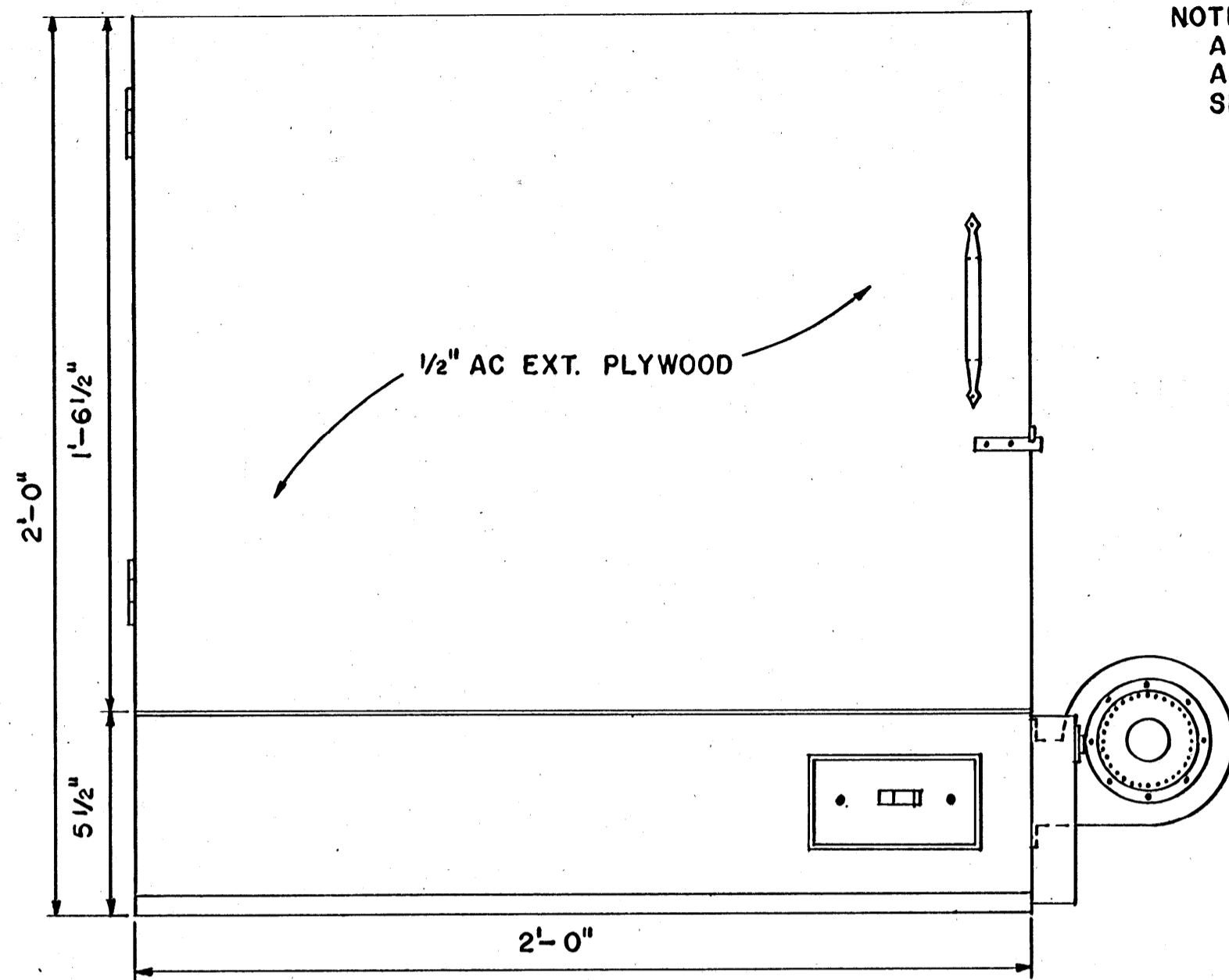


DEVELOPED BY THE FRUIT SUBSTATION, CLARKSVILLE, AND THE AGRICULTURAL ENGINEERING DEPARTMENT, UNIVERSITY OF ARKANSAS, PLAN NO. 731001

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FRUIT DRIER

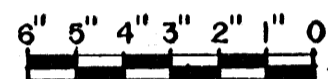
ARK. '74	6202	SHEET 1 OF 4
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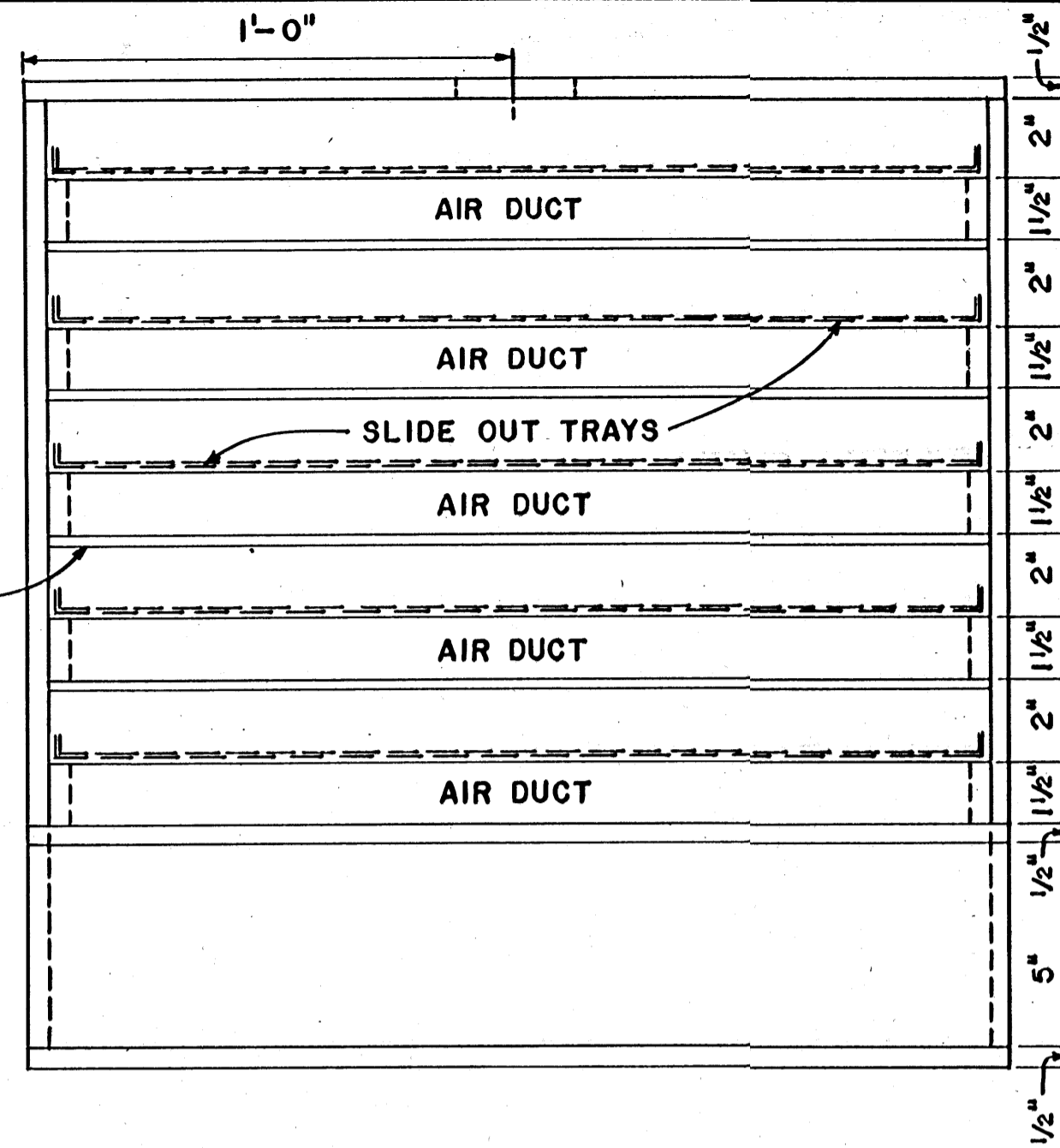
FRONT VIEW

NOTE:
 ALL JOINTS IN AIR DUCTS
 AND PLENUM CHAMBER
 SHOULD BE CAULKED.

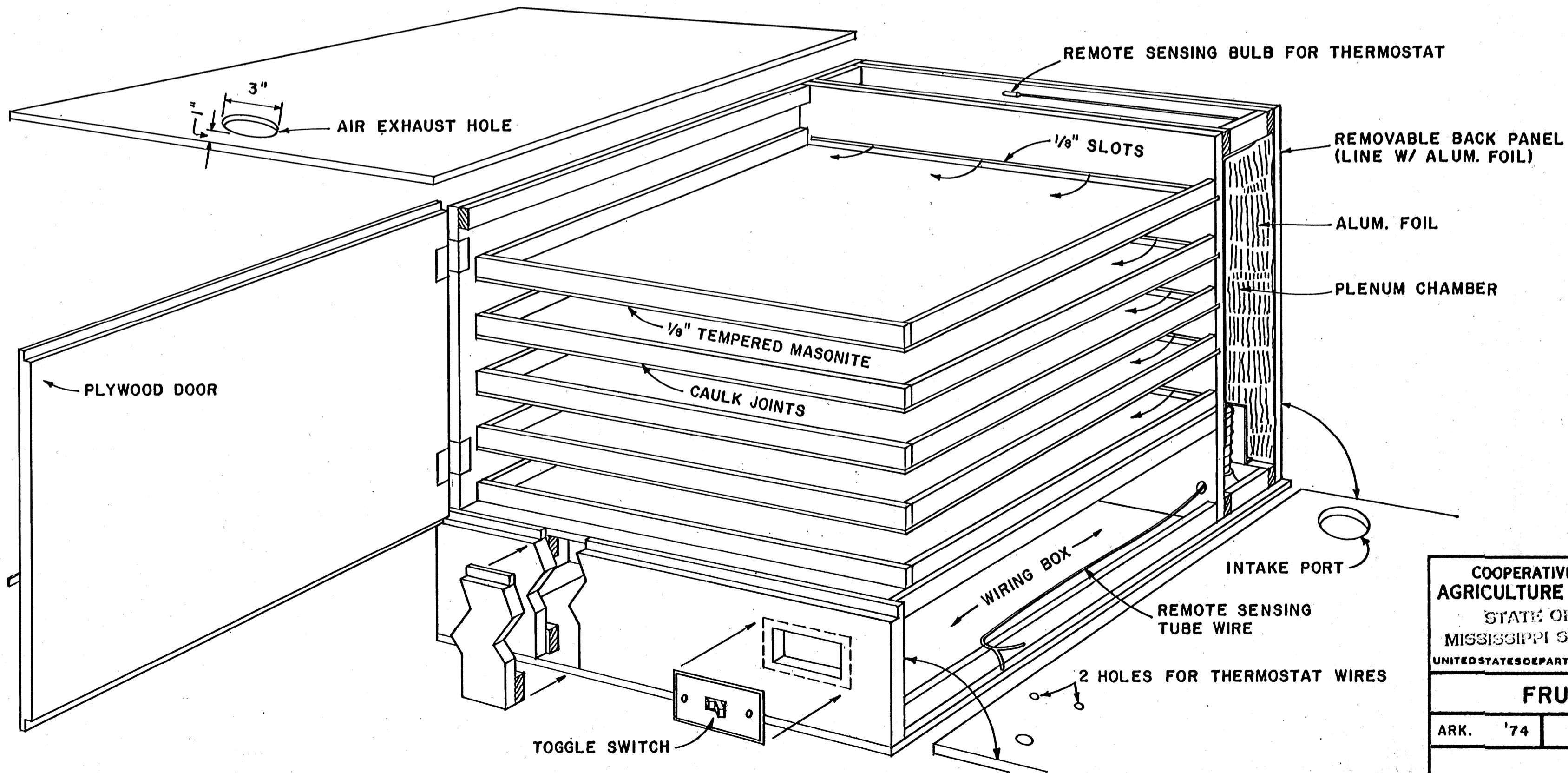
1/8" TEMPERED
 MASONITE
 (CAULK JOINTS)



SCALE: 3"=1'-0"



FRONT—"DOOR REMOVED"



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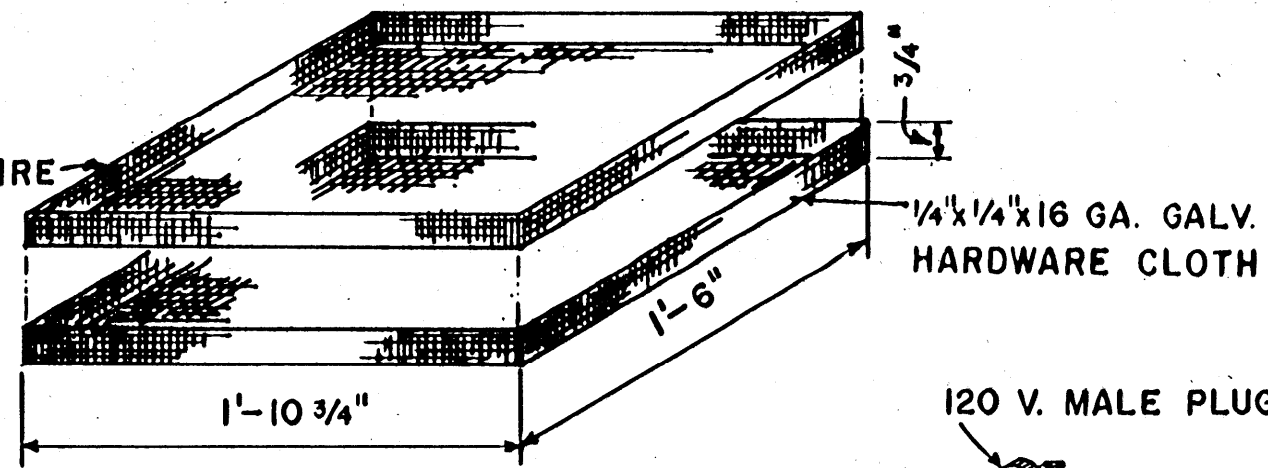
FRUIT DRIER

ARK. '74 6202 SHEET 2 OF 4

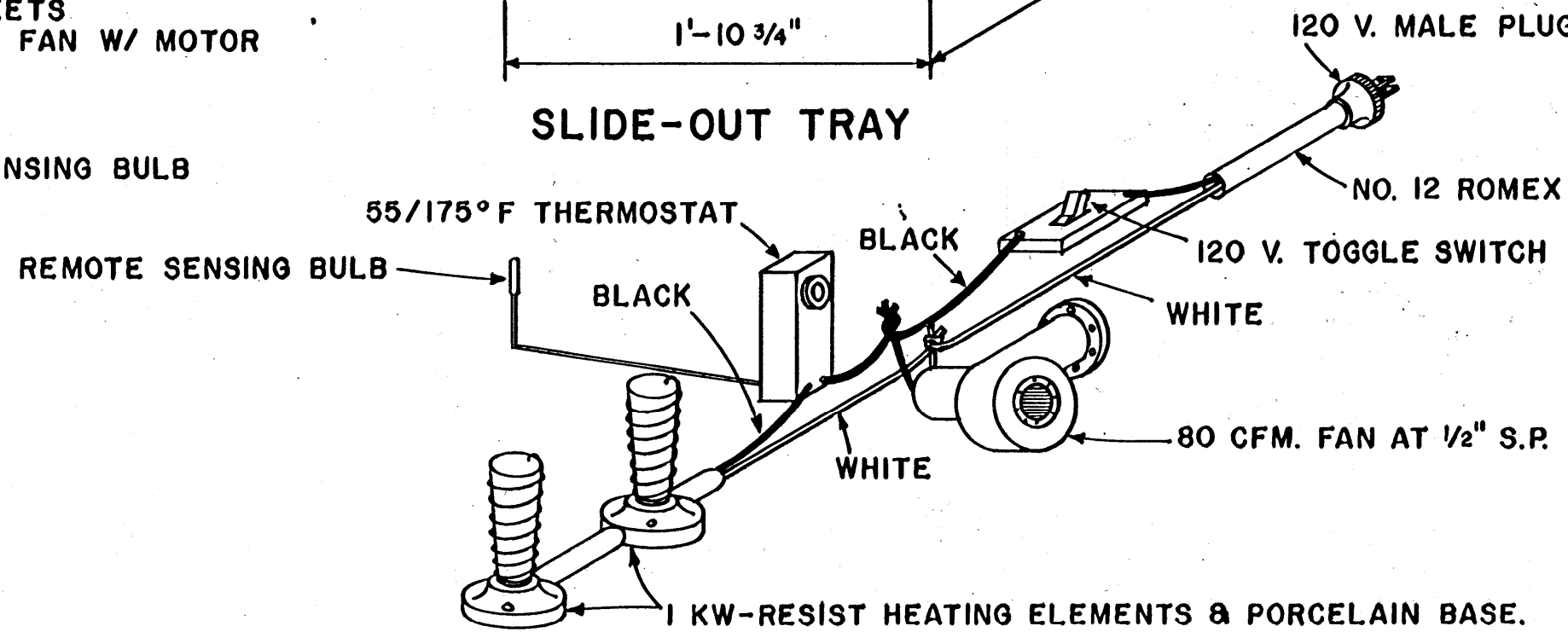
BILL OF MATERIALS

- 1 - 4x8x1/2" AC EXT. PLYWOOD
- 1 - 4x4x1/8" TEMPERED MASONITE
- 1 - 4x5x16 GA. - 1/4" GALV. HARDWARE CLOTH
- 6 - 1x2x8' NO. 1 FIR
- 1/2" - 4d BOX NAILS
- 12 - NO. 10 WOOD SCREWS
- 1 - SET 1 1/2" HINGES & DOOR HANDLE
- 2 - 1 KW - 110 V. CONE TYPE HEATING ELEMENTS
- 2 - 110 V. SURFACE MT. PORCEL. LIGHT SOCKETS
- 1 - 110 V. 2870 RPM "DAYTON" MOD. # 2C781 FAN W/ MOTOR
- 1 - 110 V. SINGLE POLE SWITCH & COVER
- 1 - ELECT. SWITCH BOX
- 1 - ELECT. JUNCTION BOX
- 1 - 55/175° F THERMOSTAT W/ REMOTE SENSING BULB
- 2 - HEAT SHIELDS 16 GA. 4"x5"
- 1 - 4'x5' ALUM. SCREEN WIRE

ALUM. SCREEN WIRE
(SEE NOTE)

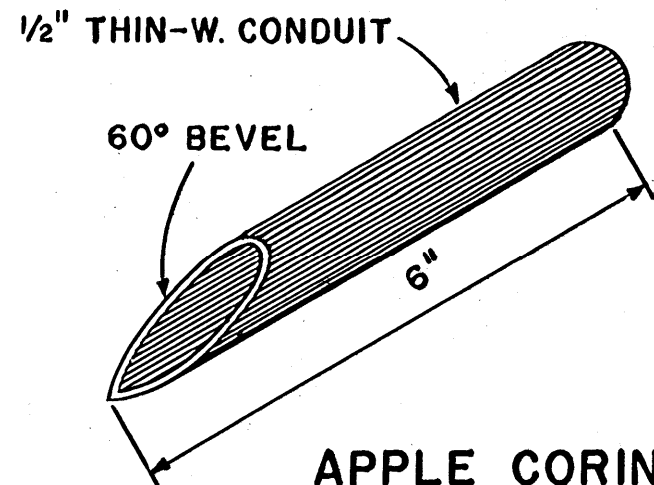


SLIDE-OUT TRAY



NOTE:
CIRCUIT: 120 V. - 20 A. MIN.

WIRING DIAGRAM



APPLE CORING TOOL
NO SCALE

FRUIT DRYING PROCEDURE

APPLES:

- A. PEEL, CORE, & SLICE IN 1/4" RINGS
- B. DIP FRUIT IN BLEACHING SOLUTION* FOR 2 MINUTES.
- C. PLACE PREPARED FRUIT IN LARGE PLASTIC BAG, SEAL, & REFRIG. OVER-NIGHT FOR BEST RESULTS.
- D. PLACE FRUIT EVENLY IN TRAYS, & PLACE TRAYS IN DRIER.
- E. SET THERMOSTAT AT 165°
- F. DRY TO 15-20% MOISTURE W.B.
- G. APPX. TIME REQ. | TEMP. OUTSIDE AIR

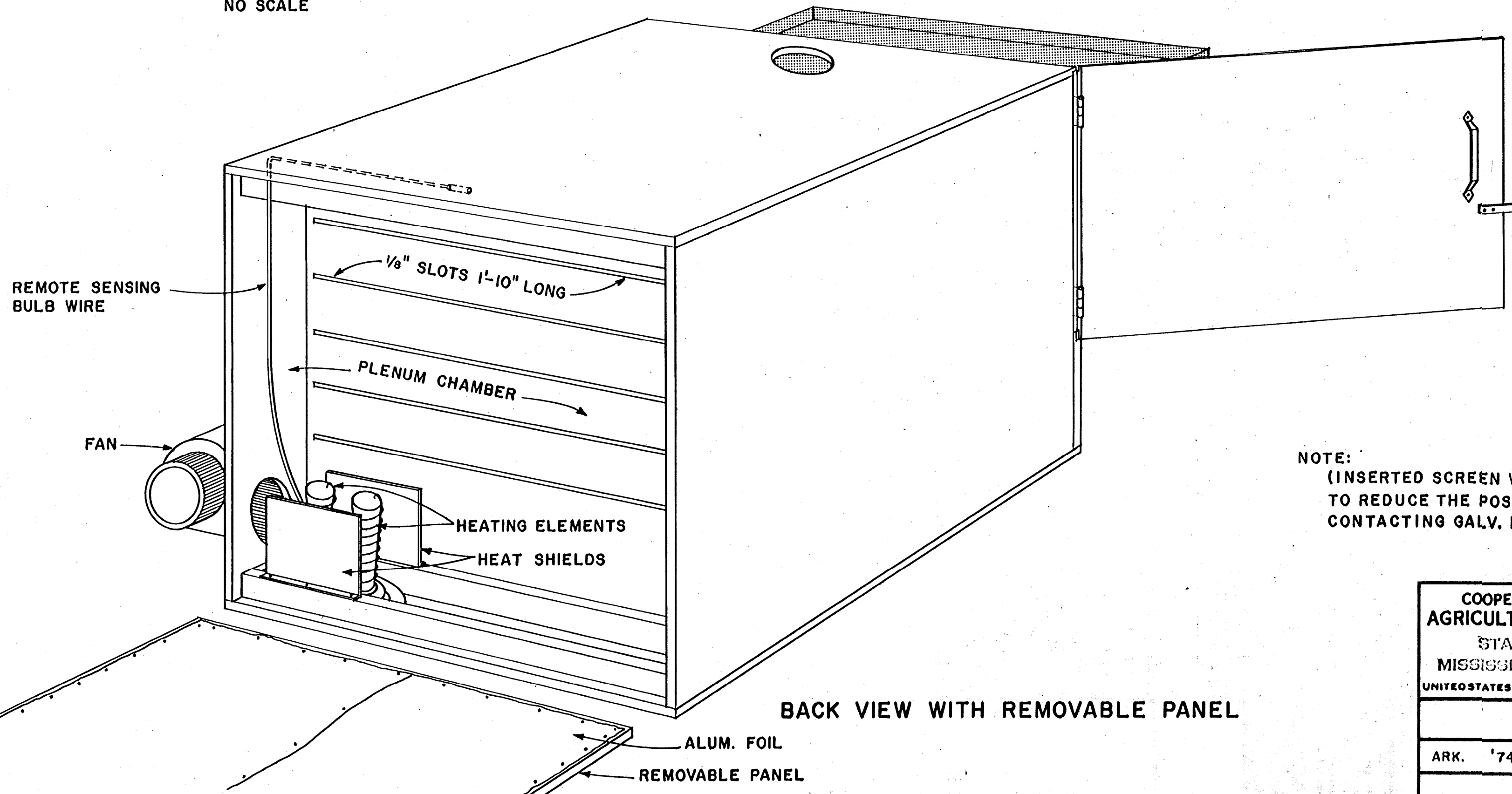
(HRS.)	(°F)
10-11	60
9-10	70
7-8	80

PEACHES:

- A. PEEL, PIT, & SLICE INTO 1/4 SECTIONS
- B.-D. AS ABOVE
- E. SET THERMOSTAT AT 145°
- F. DRY TO 15-20% MOISTURE W.B.
- G. APPX. TIME REQ. | TEMP. OUTSIDE AIR

(HRS.)	(°F)
12-13	60
11-12	70
11-12	80

*FOR BLEACHING AGENT USE:
3 LEVEL TEASPOONS OF 60% SODIUM BISULFITE PER QT. OF WATER.



BACK VIEW WITH REMOVABLE PANEL

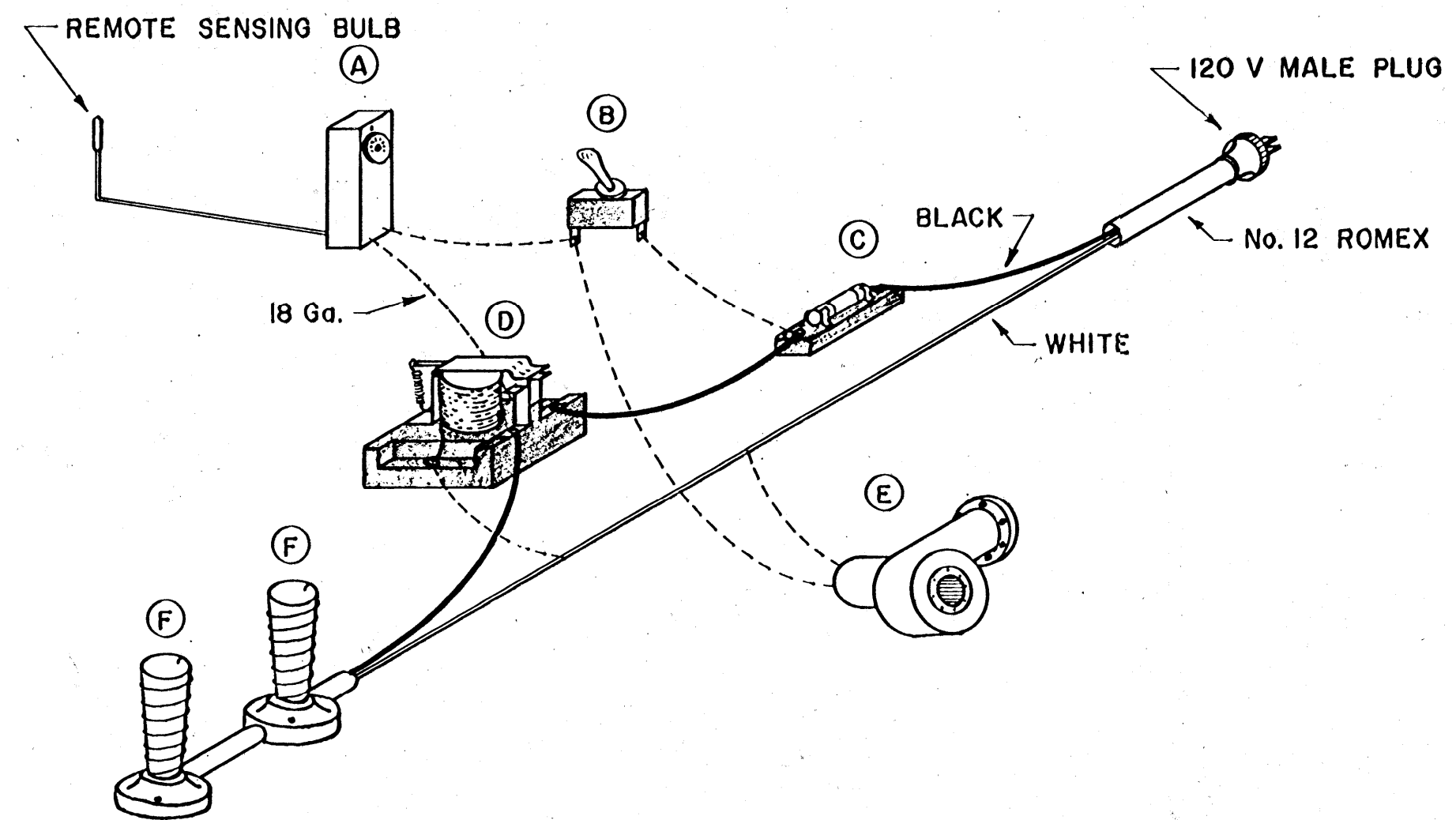
NOTE:
(INSERTED SCREEN WIRE LINING IS SUGGESTED TO REDUCE THE POSSIBILITY OF FRUIT CONTACTING GALV. HARDWARE CLOTH.)

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FRUIT DRIER

ARK. '74 6202 SHEET 3 OF 4

- (A) - HONEYWELL MOD. T675A THERMOSTAT , 55 / 175 ° F
- (B) - 120 V TOGGLE SWITCH
- (C) - IN-LINE FUSE HOLDER W/ 20 A FUSE
- (D) - DAYTON No. 5X850 RELAY
- (E) - DAYTON MOD. 2C781 BLOWER
- (F) - 1 KW - 110 V CONE TYPE HEATING ELEMENT W/ PORCELAIN BASE

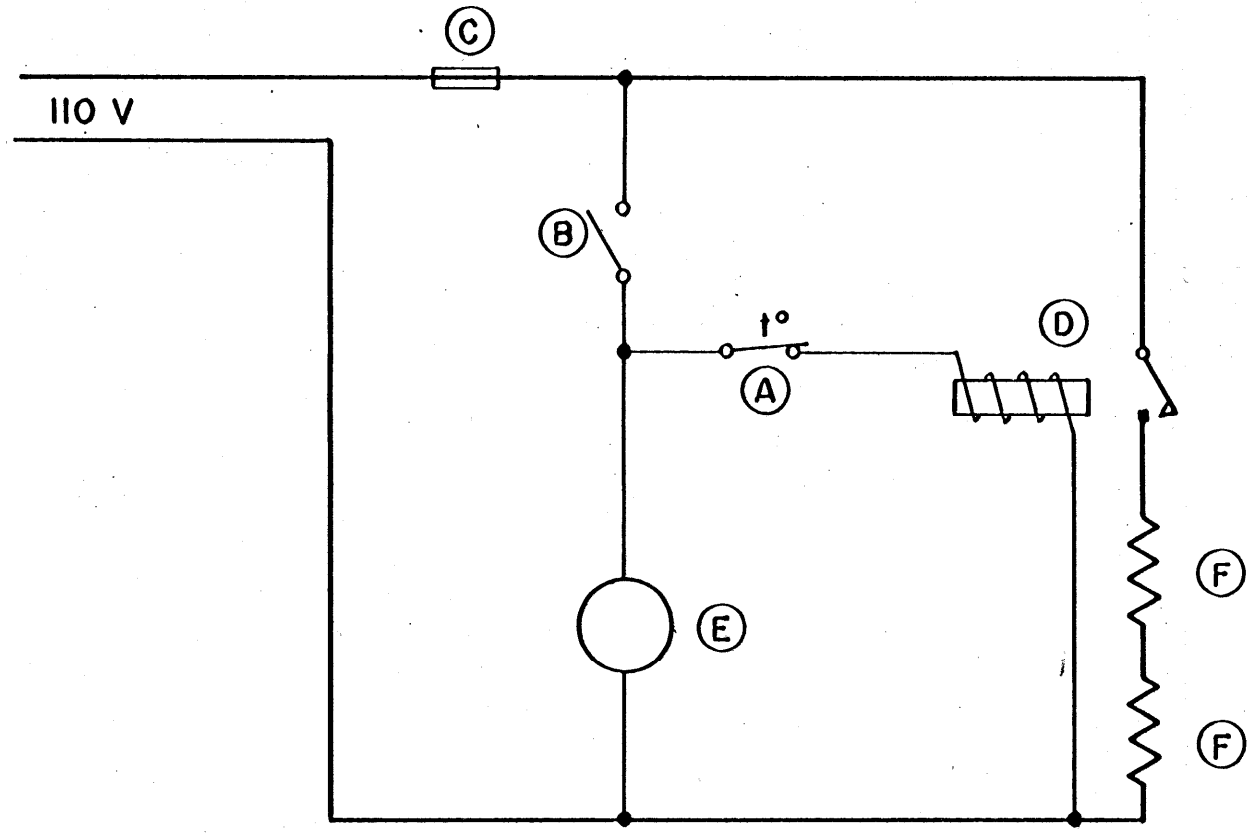


ALTERNATE WIRING DIAGRAM

NOTE:

WIRING DIAGRAM SHOWN ON SHEET 3 REQUIRES A LINE VOLTAGE THERMOSTAT RATED AT 20 AMP. RESISTIVE. IF THIS TYPE OF THERMOSTAT IS NOT AVAILABLE, THE WIRING DIAGRAM SHOWN ON THIS SHEET MAY BE USED.

THE OPERATION OF THIS DRYER REQUIRES A 110 V. - 20 AMP. CIRCUIT. TO PREVENT OVERLOADING OF CIRCUIT, DO NOT OPERATE DRYER ON A CIRCUIT WITH OTHER APPLIANCES.



SCHEMATIC

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FRUIT DRIER		
OKLA. '75	6202	SHEET 4 OF 4