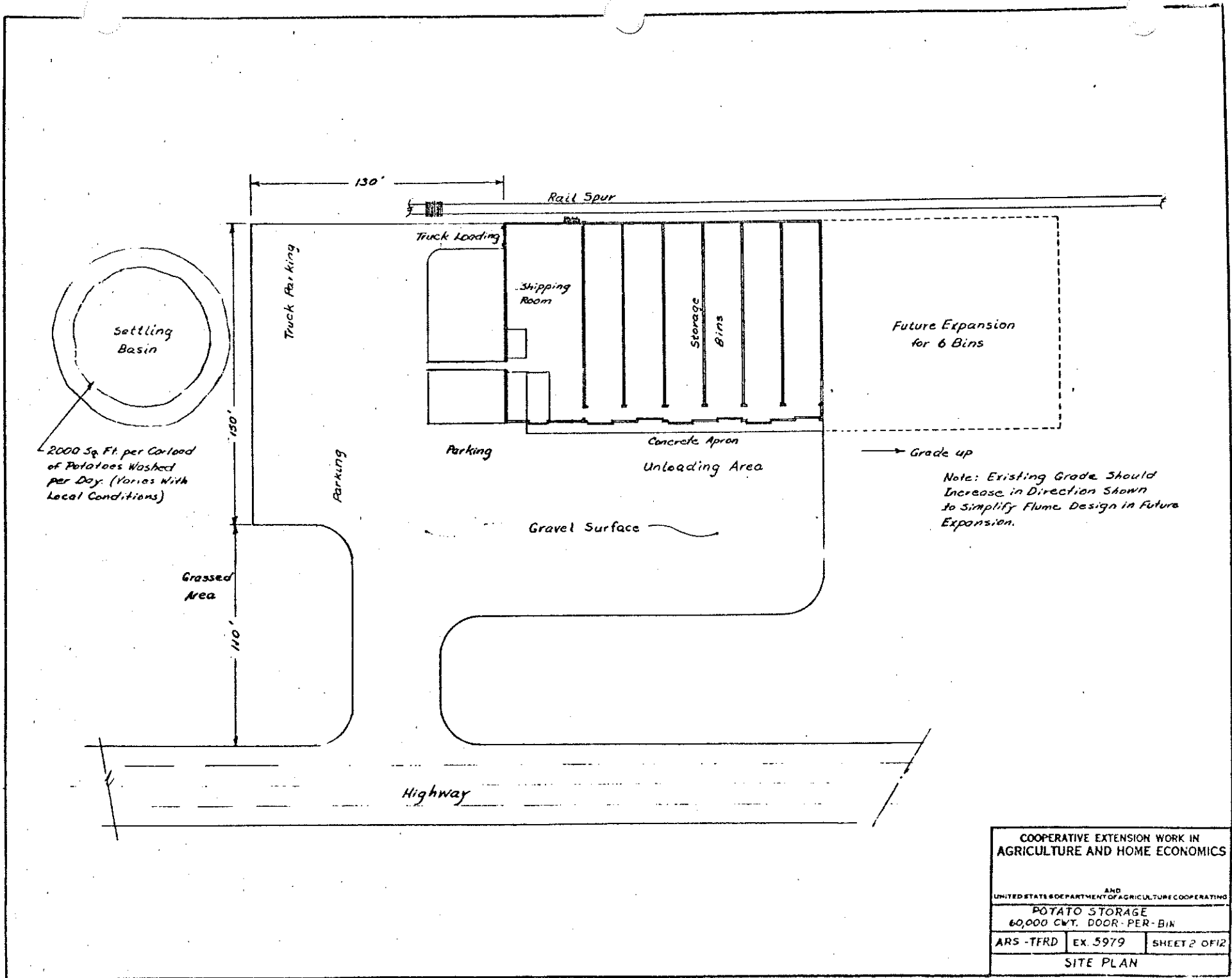


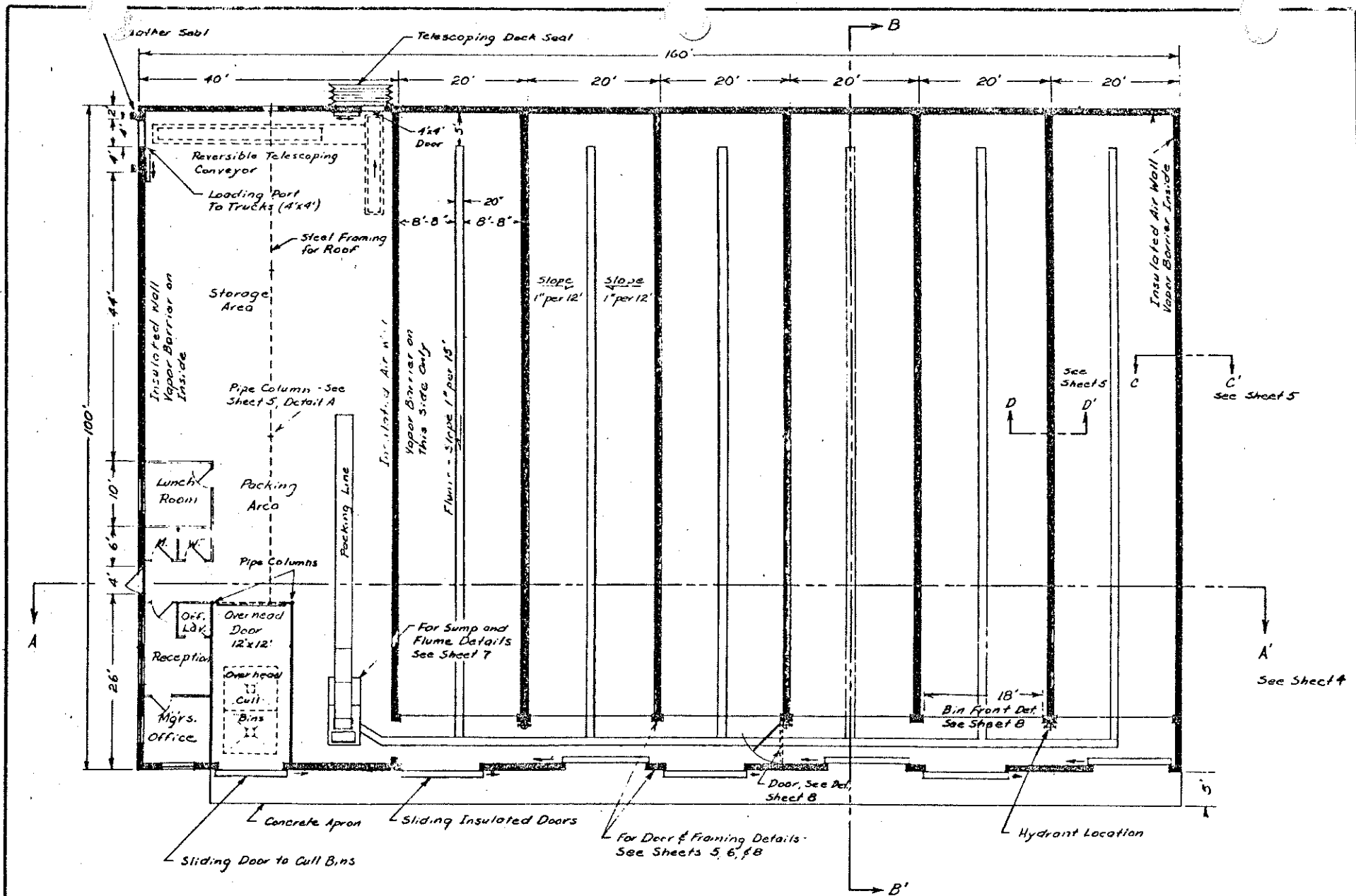
THE OPERATOR PLANNING TO BUILD A STORAGE SHOULD RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER TO DESIGN THE STORAGE TO MEET THE OPERATOR'S PARTICULAR NEEDS AND TO MEET LOCAL CONDITIONS, AS WELL AS TO SUPERVISE CONSTRUCTION.

SHEET 1
NOTE ADDED
REVISED: 5-2-69

COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS	
AND UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING	
POTATO STORAGE 40,000 CNT. DOOR - PER BIN	
ARS - TFRD EX 5979	SHEET 1 OF 12
PERSPECTIVE	

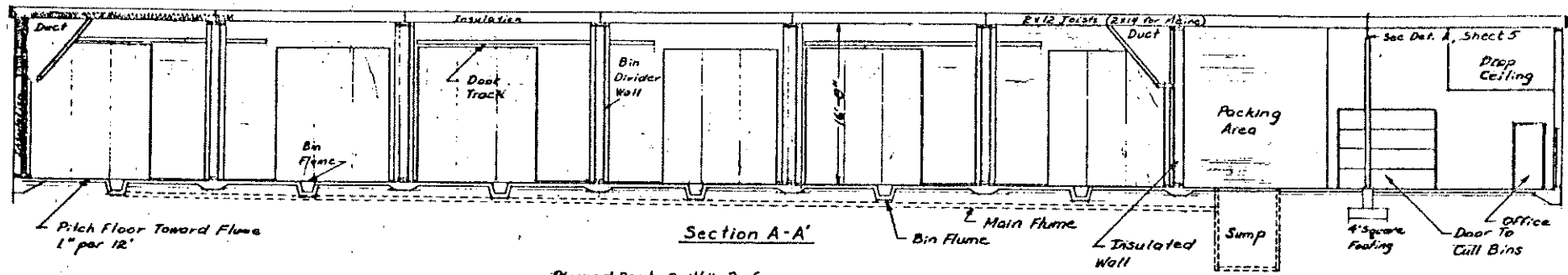


COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS		
AND UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING		
POTATO STORAGE 60,000 CWT. DOOR-PER-BIN		
ARS - TFRD	EX. 5979	SHEET 2 OF 12
SITE PLAN		

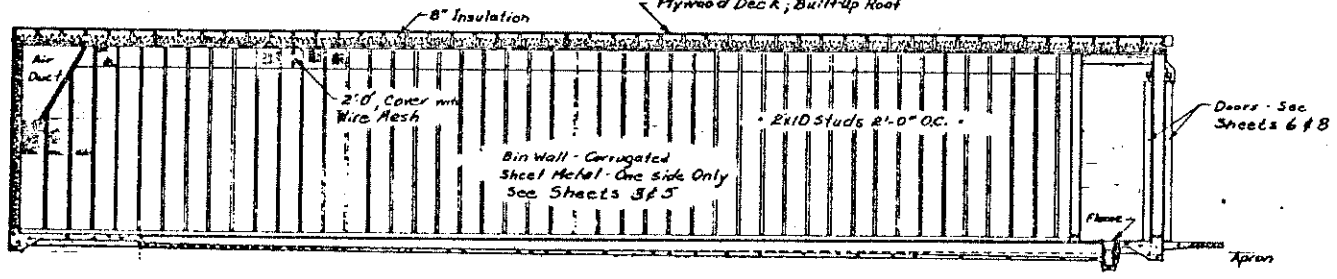


Notes: 1. Walls between bins are not insulated. See Section D-D', Sheet 5

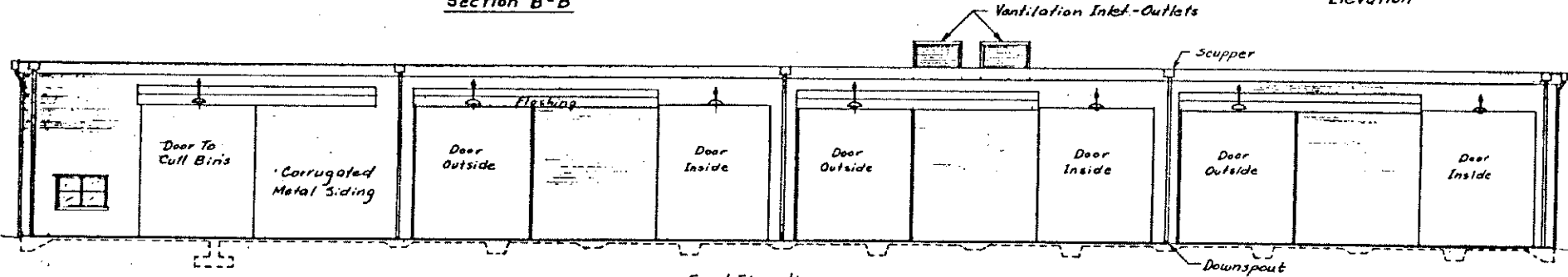
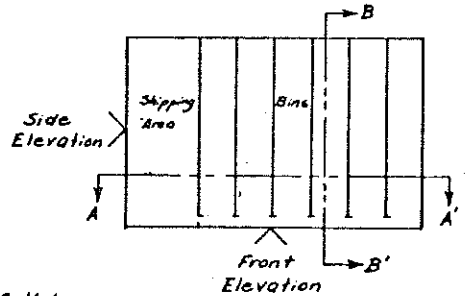
COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS		
AND UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING		
POTATO STORAGE		
60,000 CWT. DOOR PER BIN		
ARS TRFD	EX 3979	SHEET 3 OF 12
LAYOUT		



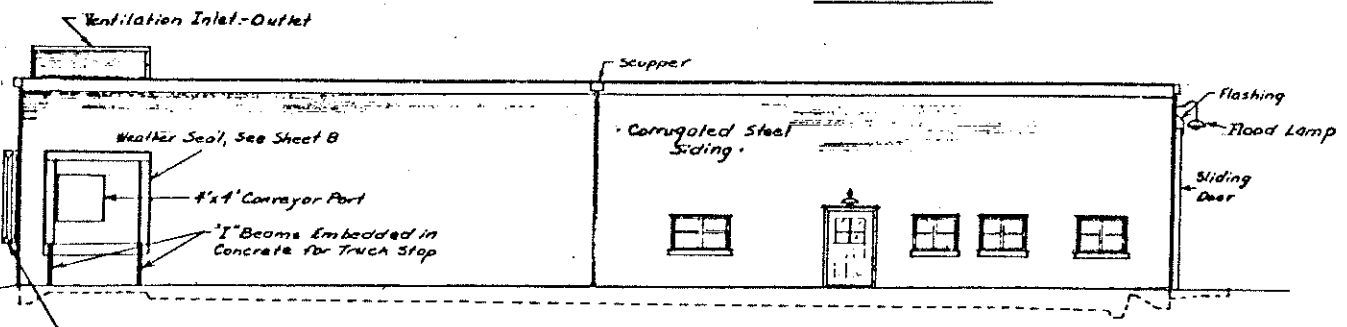
Section A-A'



Section B-B'



Front Elevation



Side Elevation

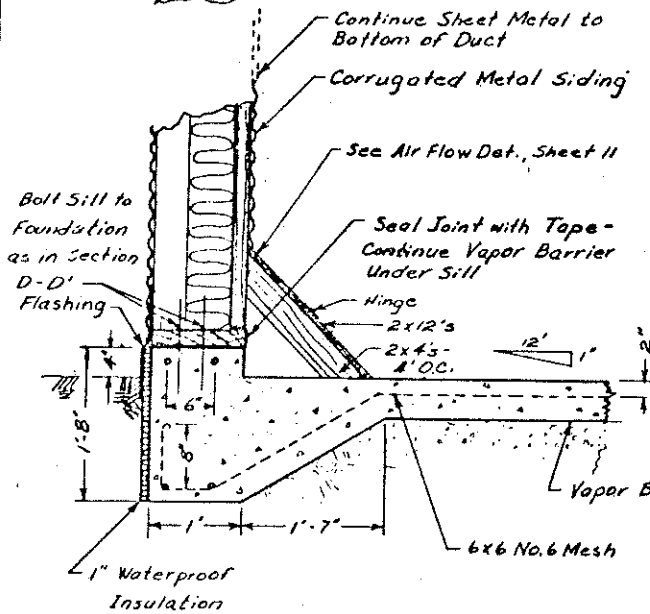
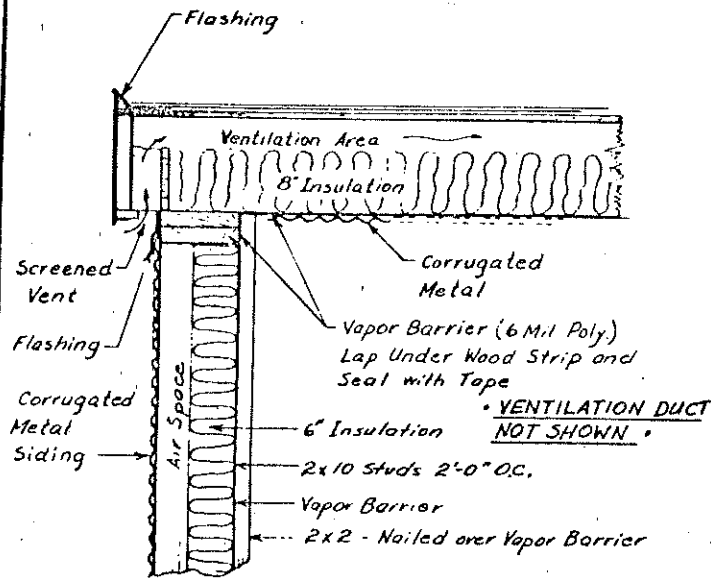
COOPERATIVE EXTENSION WORK IN
 AGRICULTURE AND HOME ECONOMICS

AND
 UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

POTATO STORAGE
 60000 CWT. DOOR-PER-BIN

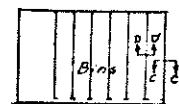
ARS-TFRD EX. 5979 SHEET 4 OF 12

ELEVATIONS & SECTIONS

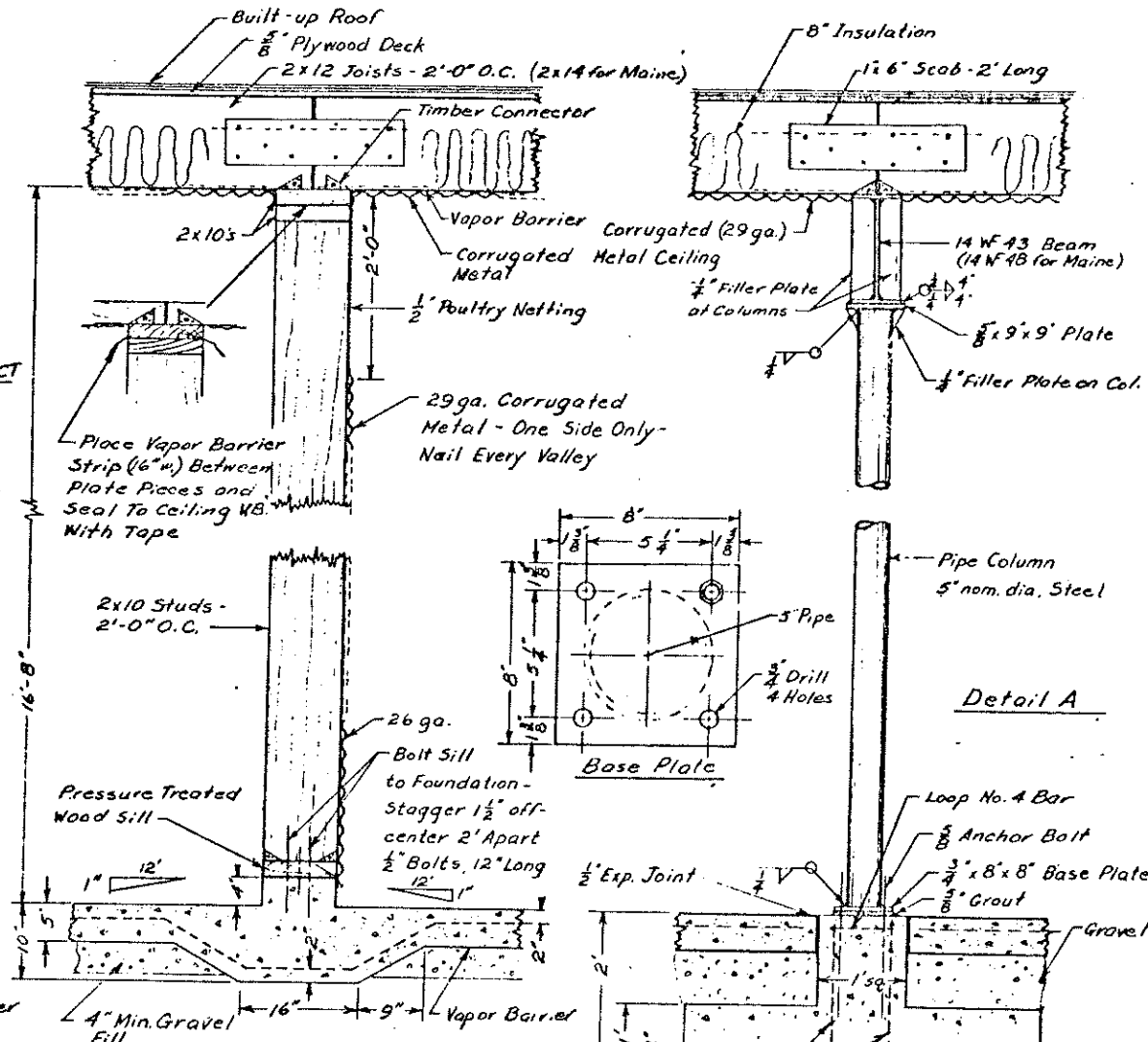


Typical Air Wall
Section C-C'

Caution: Many Areas Cannot Use "Floating" Slab Foundation Shown.



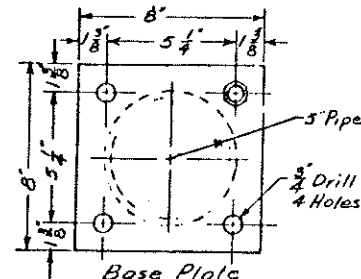
Section Locations



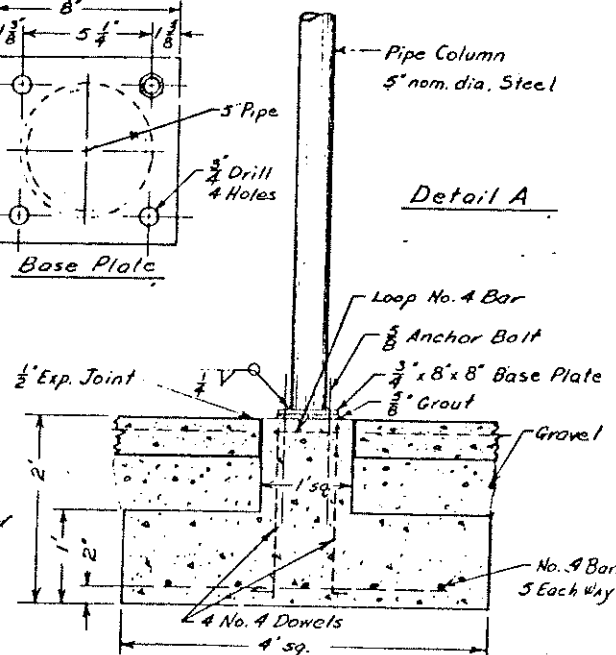
Note: Fasten All Studs to Sill with 2 Metal Anchors on each.

Typical Bin Divider
Section D-D'

Note: Brace Studs and Joists Laterally at Center of Span With 2x8's.

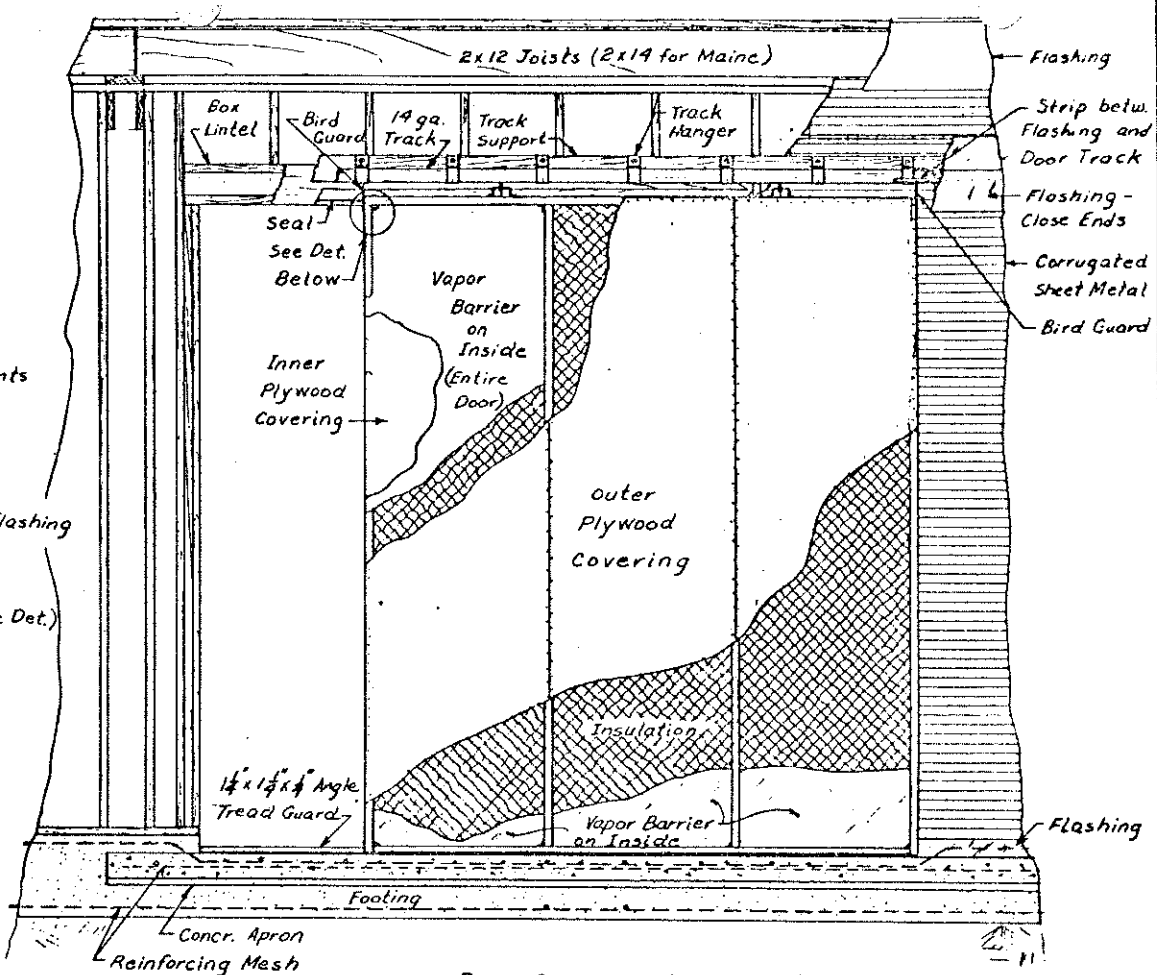
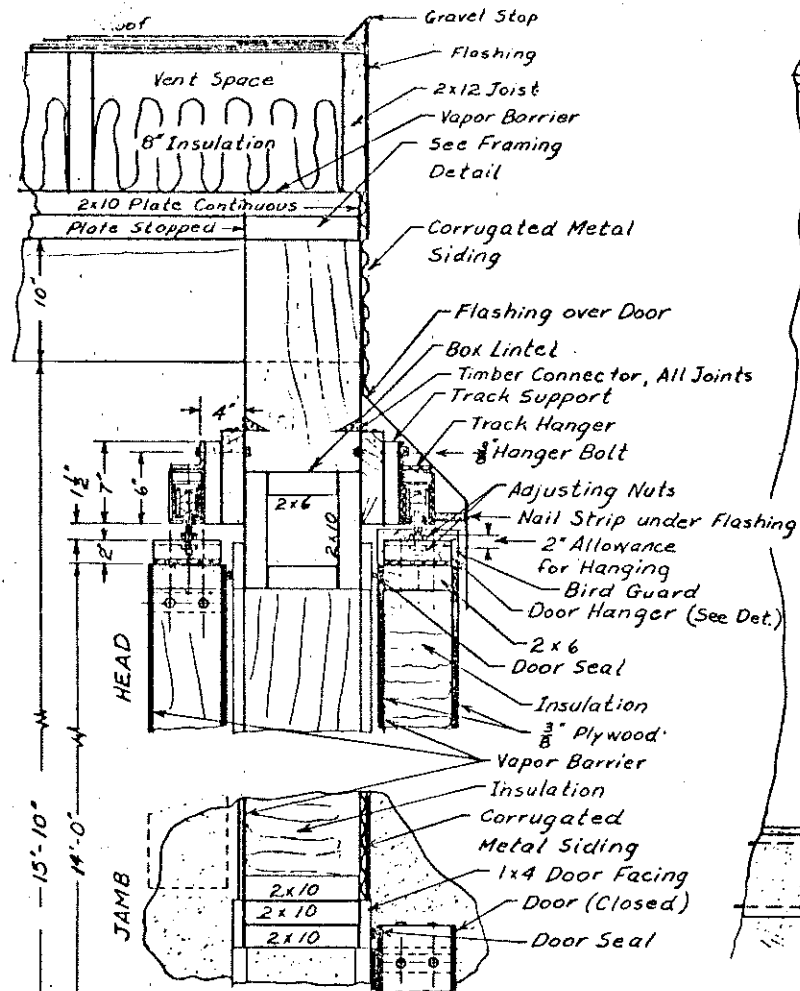


Base Plate

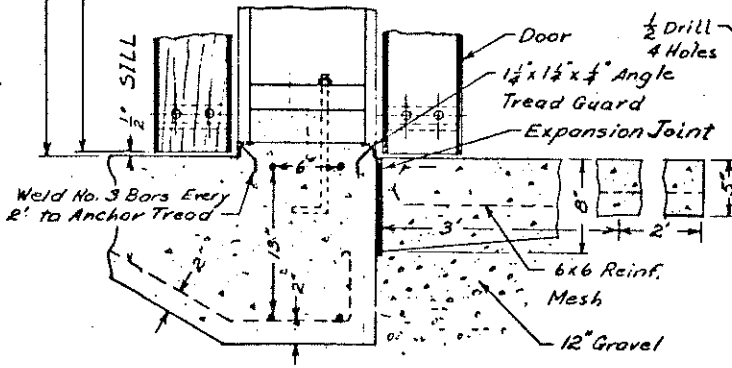


Detail A

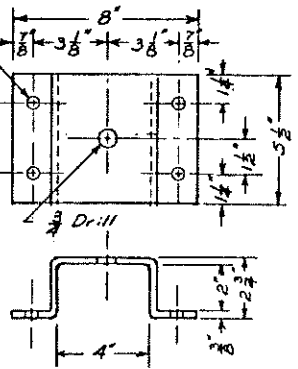
COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS		
AND UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING		
POTATO STORAGE		
60,000 CNT. DOOR-PER-BIN		
ARS-TRFD	EX. 5979	SHEET 5 OF 12
STRUCTURAL DETAILS		



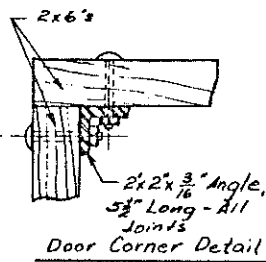
Door Construction Details



Door Details

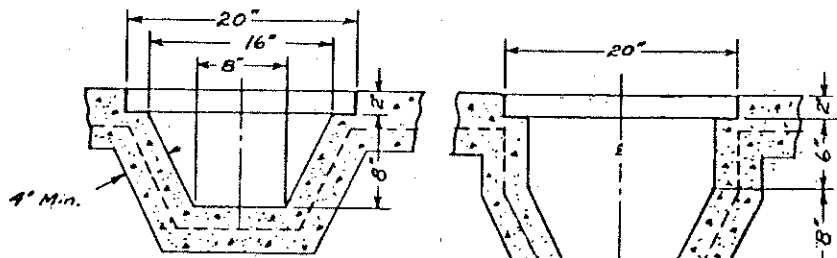


Door Hanger Detail

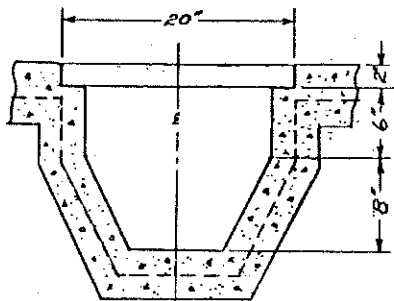


Door Corner Detail

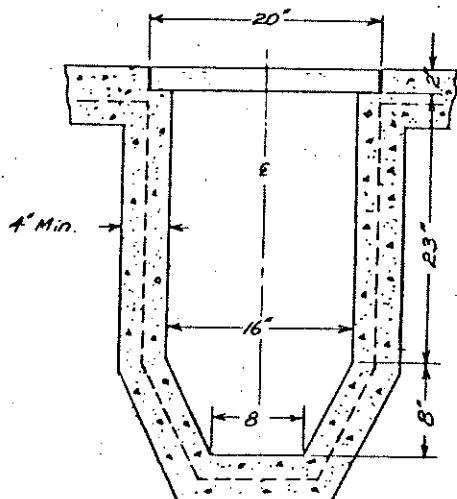
COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS		
AND UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING		
POTATO STORAGE		
60,000 CWT. DOOR-PER BIN		
ARS-TFRD	EX. 5979	SHEET 6 OF 12
SLIDING DOOR DETAILS		



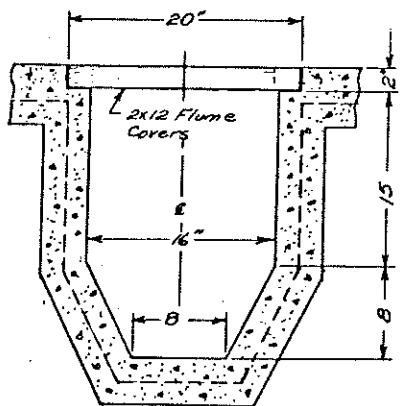
Detail A



Detail B



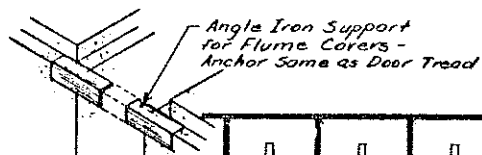
Detail C



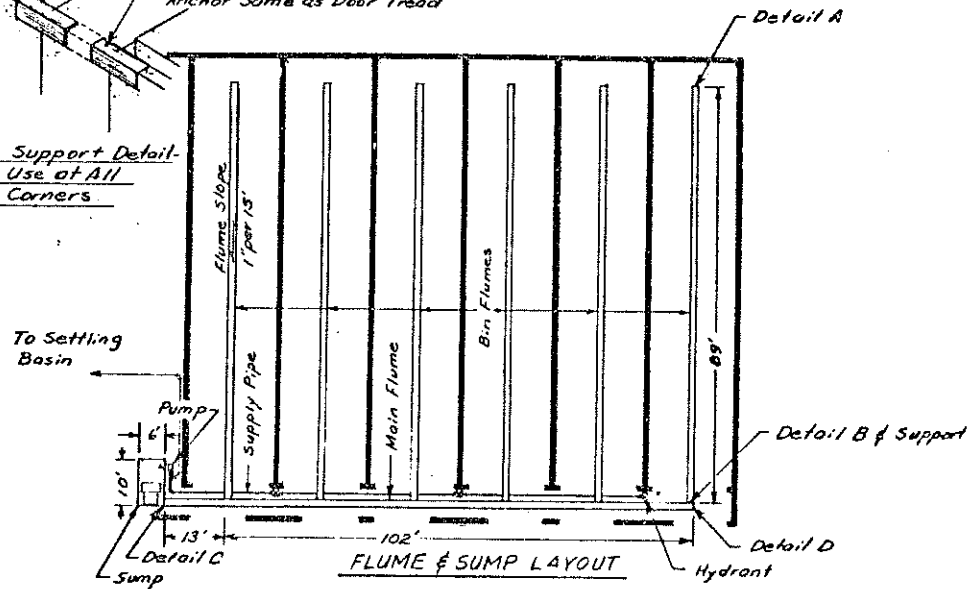
Detail D

Flume Sections

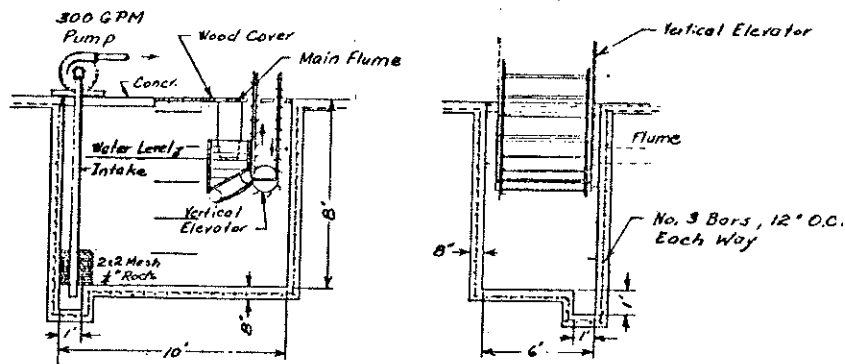
Note: All Flumes Reinforced with 6x6 No. 6 Mesh



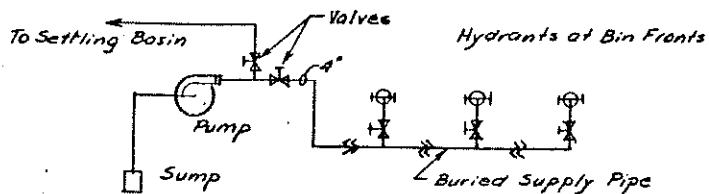
Support Detail - Use at All Corners



FLUME & SUMP LAYOUT



SUMP DETAILS



Piping Schematic

No Scale

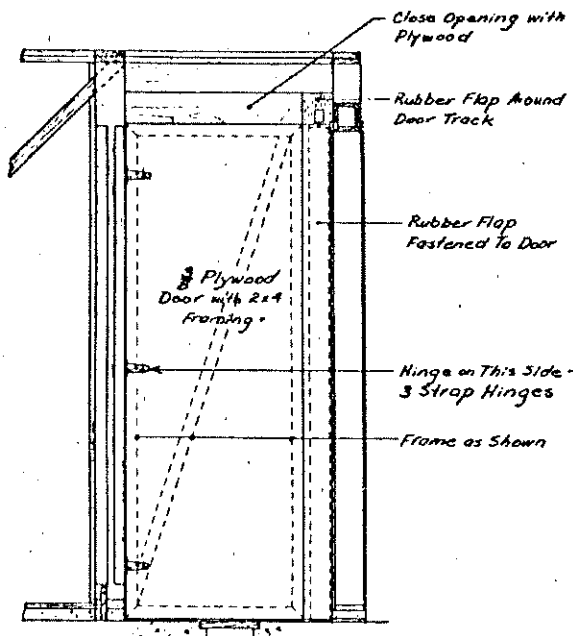
COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS

AND UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

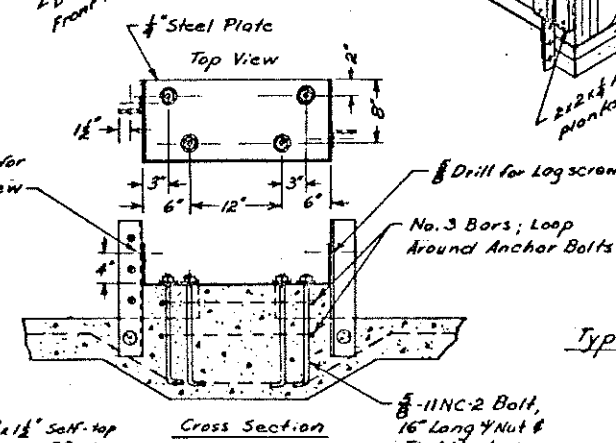
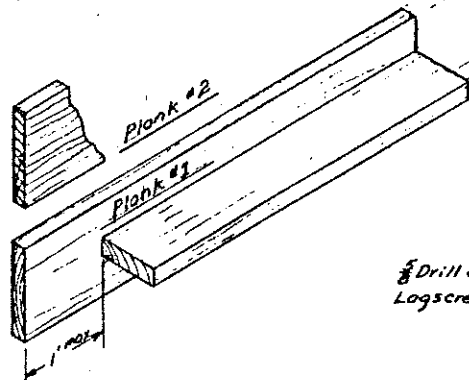
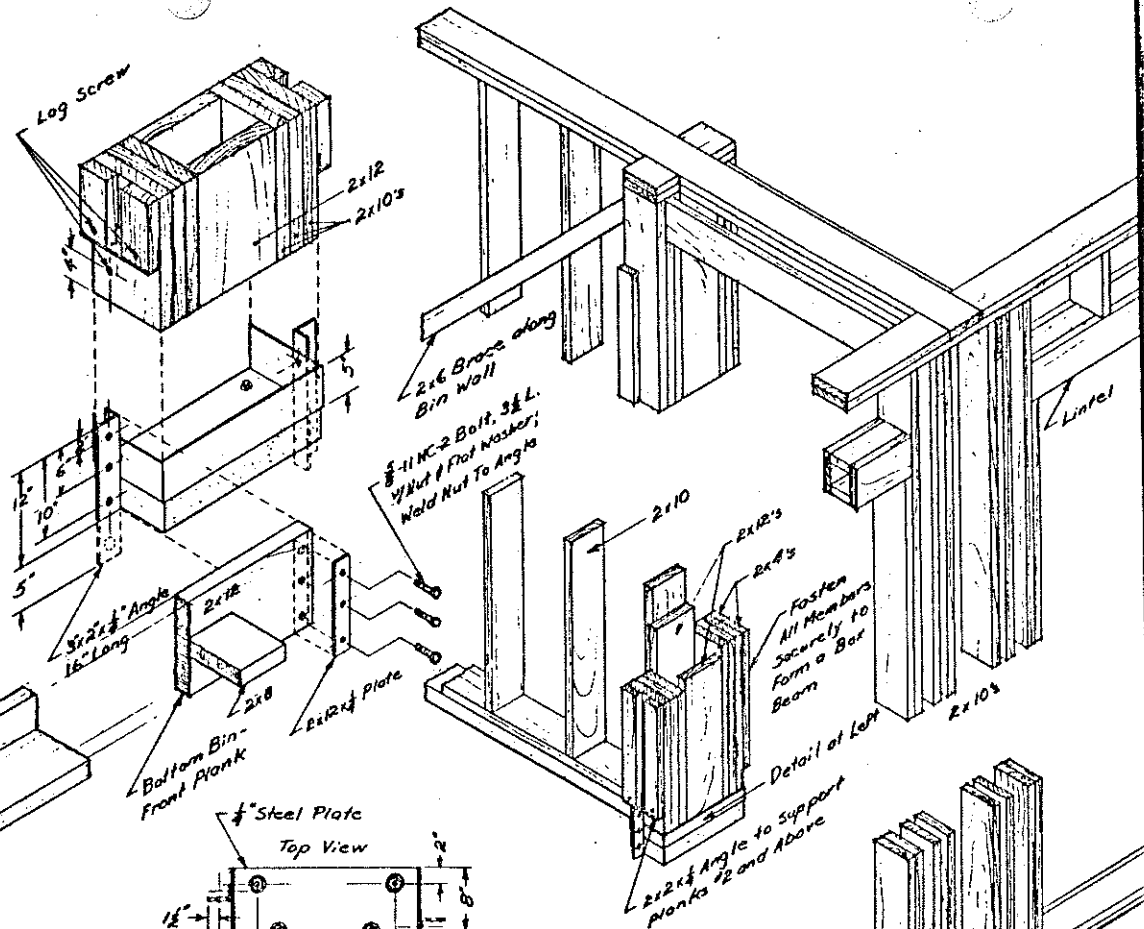
POTATO STORAGE
60,000 CWT. DOOR PER BIN

ARS - TFRD EX. 5979 SHEET 7 OF 12

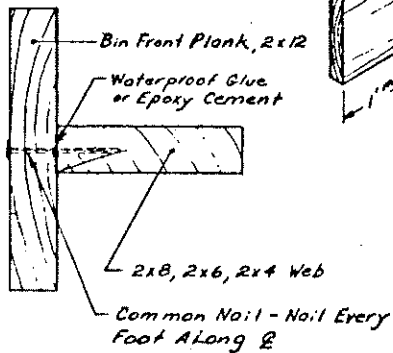
FLUME DETAILS



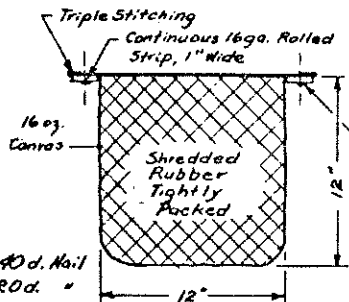
Divider Door Detail



Bin Wall Anchor Detail



Bin Front Plank End View



Weather Seal
 See Sheet 3

Note: 2x8 Web - First 3 Planks - Use 40d. Nail
 2x6 " - Next 9 " - " 20d. "
 2x4 " - Last 2 " - " 16d. "

Typical Framing for Bins & Doors
 See Sheet 3

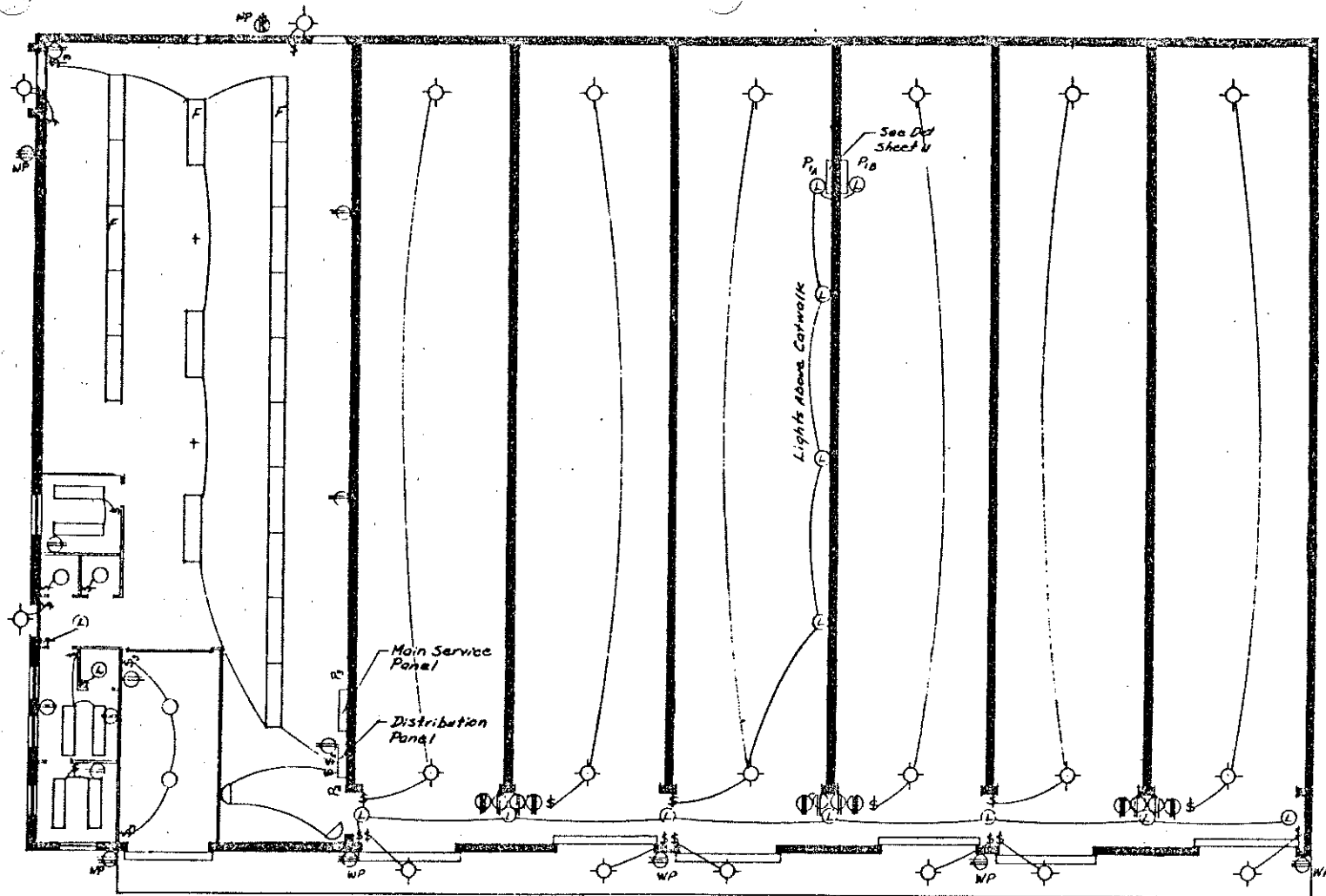
COOPERATIVE EXTENSION WORK IN
 AGRICULTURE AND HOME ECONOMICS

AND
 UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

POTATO STORAGE
 60,000 CWT. DOOR-PER-BIN

ARS-TFRD EX. 5979 SHEET 8 OF 12

BIN FRONT DETAILS



LEGEND

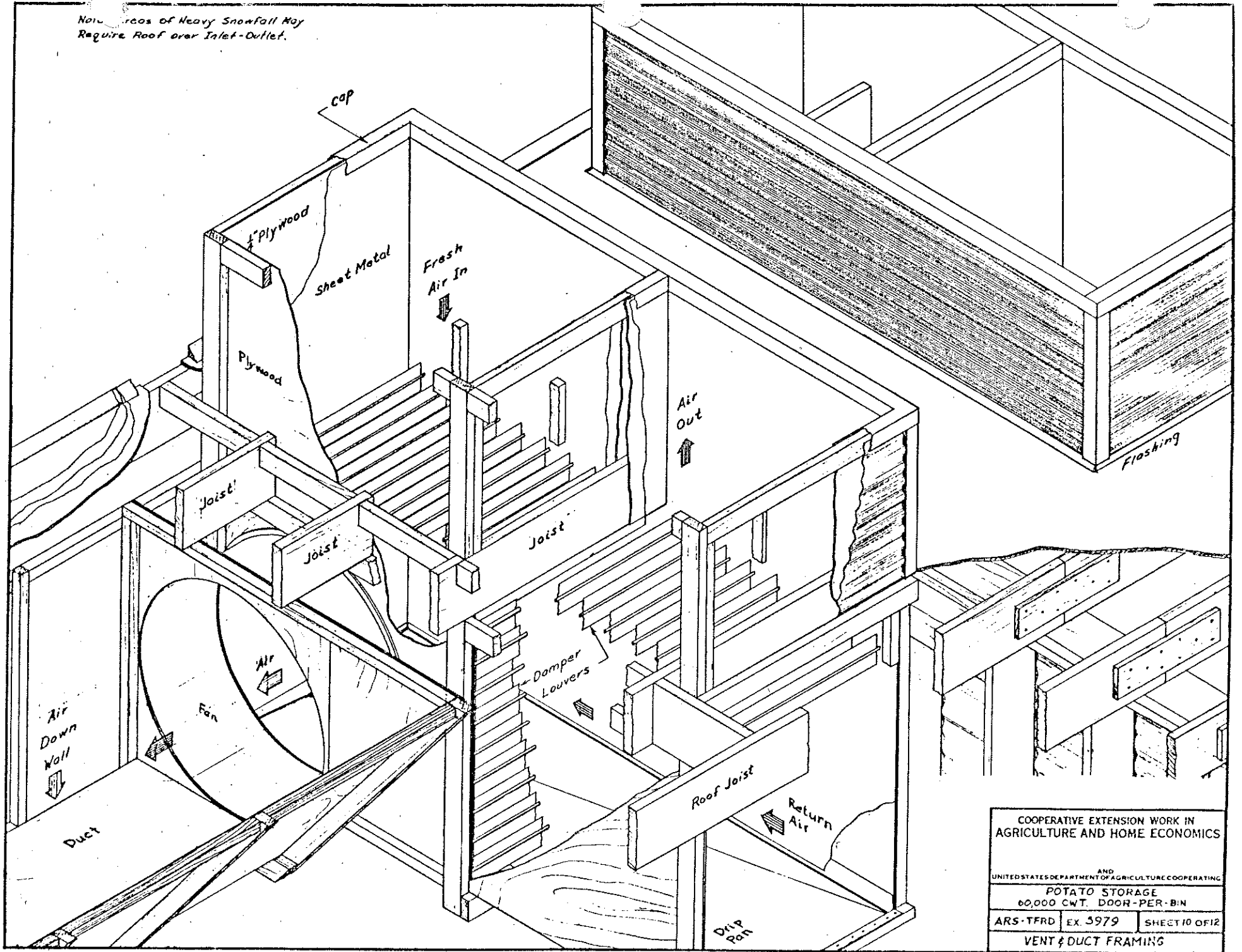
- ⌘ Single Pole Switch
- ⌘₃ Single Pole Switch, 3-way
- ⊕ Duplex Outlet, 110v., 1ϕ, Grounded
- ⊕ Duplex Outlet, 208v., 3ϕ or 230v., 1ϕ; Grounded
- ⊕_{WP} Some as Above, Waterproof
- ⊙ Floodlamp, 1000w., Waterproof
- ⊙ Ceiling Lamp, 100w., Vaporproof
- P_{1,2,3} Panel Overhead in Plenum Chamber for Ventilation Controls, Two 48" Fans, 230v., 3ϕ and 1 Louver Motor

- 110v., 1ϕ
- P₂ Shipping Room Panel
- P₃ Main Service Panel - 400amp.
- F Fluorescent Fixtures, 8' Nom. Length with 2 - 75 watt Lamps. 12' Mounting Height in Storage Area, 15'-4" in Packing Area
- ⊙ Industrial Incandescent 150 watt RLM Angular Unit

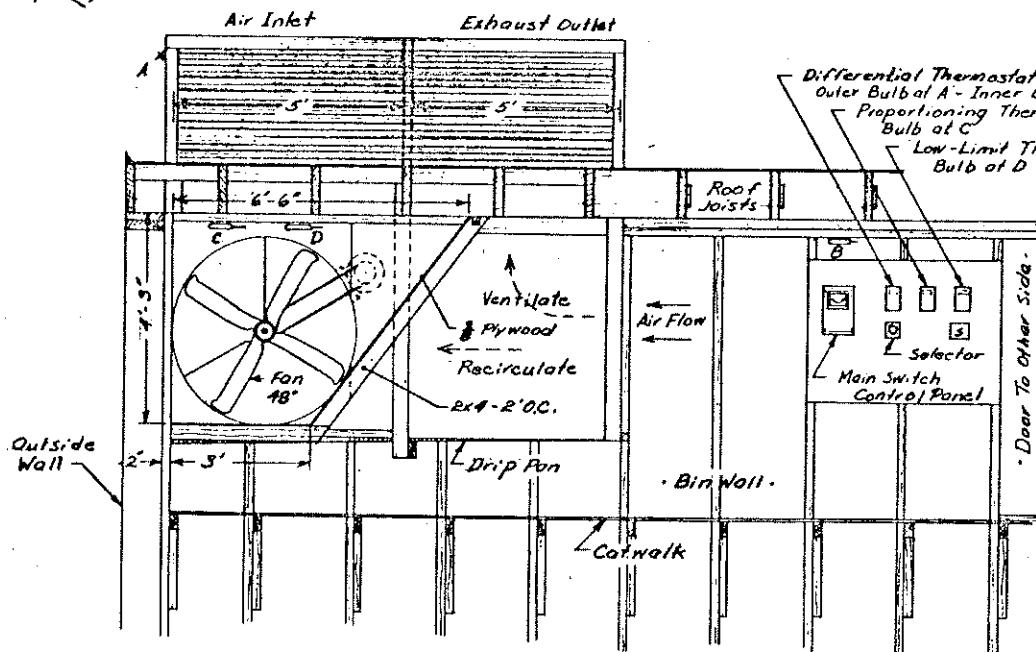
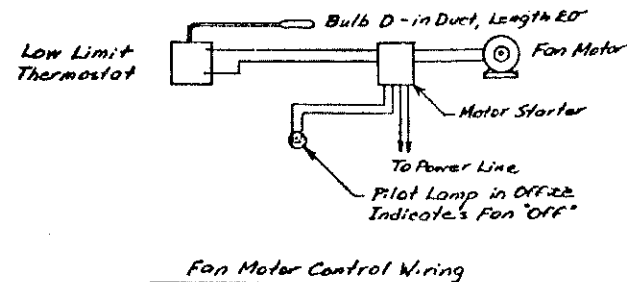
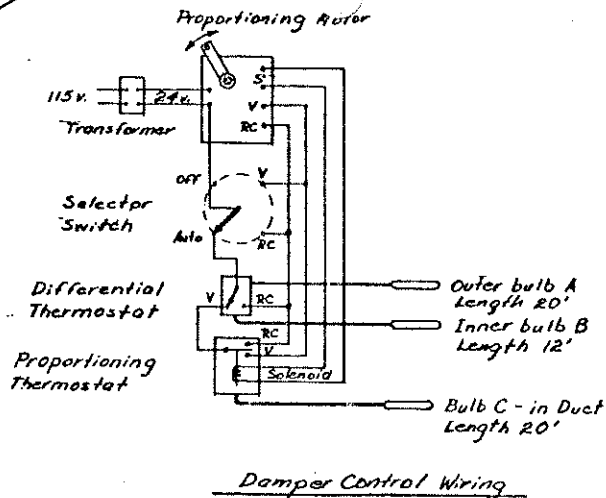
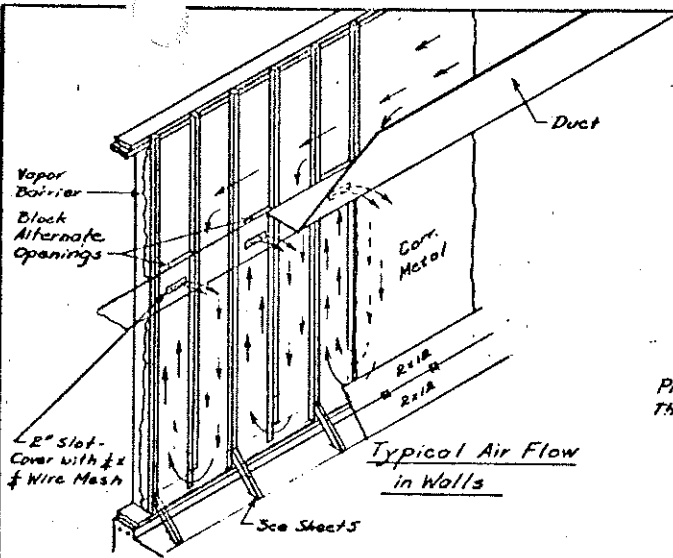
Note: 1. No Supply Circuits Shown
 2. Equip Building with Lightning Protection

COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS		
AND UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING		
POTATO STORAGE		
60,000 CWT. DOOR-PER-BIN		
ARS-TFRD	EX. 5979	SHEET 9 OF 12
LIGHTING & ELECTRICAL		

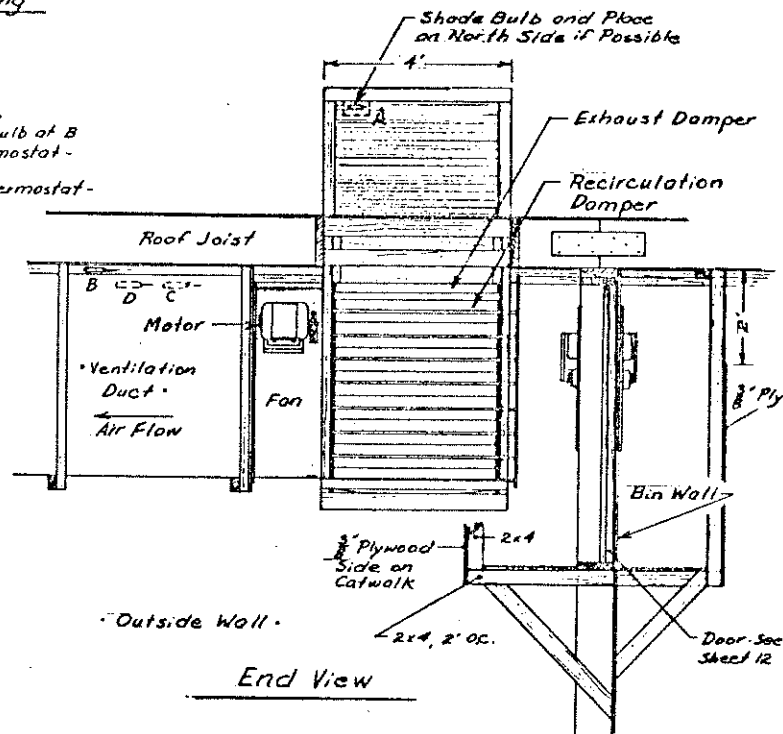
Note: Areas of Heavy Snowfall May Require Roof over Inlet-Duct.



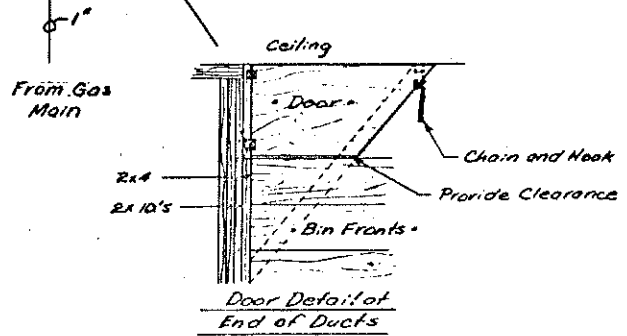
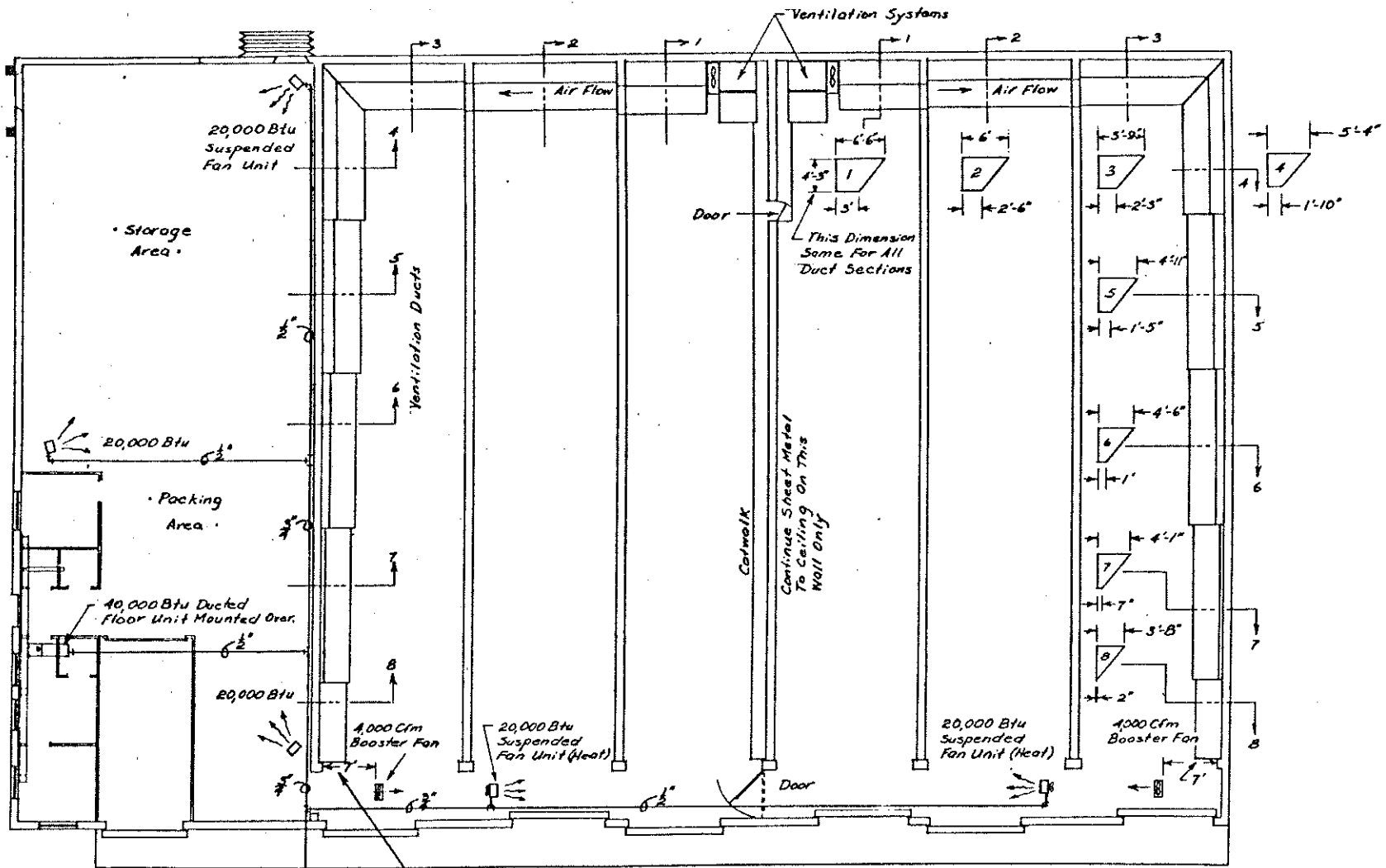
COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS		
AND UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING		
POTATO STORAGE 60,000 CWT. DOOR-PER-BIN		
ARS-TFRD	EX. 3979	SHEET 10 OF 12
VENT & DUCT FRAMING		



VENTILATION SYSTEM
Side View



COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS		
AND UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING		
POTATO STORAGE 65,000 CWT. DOOR PER BIN		
ARS-TFRD	EX. 5979	SHEET 11 OF 12
VENTILATION DETAILS		



COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS		
AND UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING		
POTATO STORAGE		
60,000 CWT. DOOR-PER-BIN		
ARS-7FRD	EX. 5979	SHEET 12 OF 12
HEATING & VENTILATION		