

ROOFING, RIBBED METAL ON
2X4 PURLINS SPACED AS
PER MANUFACTURER SPEC.

TRUSS 4'-0" O.C. SUPPORTED BY
2X8 POST AND BOLTED (2-1/2" DIA.)
TO SECOND 2X8 POST

2X12 FASCIA

SOFFIT

2x8

INLET HOOD 24" O.C.
CURTAIN WALL ONLY
(SEE DETAIL)

7'-0"

INSULATED CURTAIN
R-3 (SEE DETAIL)
REPLACES SOLID
WALL AND
CONTINUOUS INLET

PVC BATTEN STRIP
STAPLED

SIDING

4'-0"

PLYWOOD, 1/2" FDN.
GRADE

METAL RAT GUARD

6"

**TYPICAL WALL SECTION
WITH CURTAIN OPTION**

SCALE 3/4" = 1'-0"

INSULATION, BLANKET
FIBERGLASS R-19

VAPOR BARRIER, 6 MIL POLY

CEILING-1 1/2" FOIL FACED POLYURETHANE

1/8" CONTINUOUS ROD FOR AUTOMATIC
CONTROL OF INLET BAFFLE

INLET BAFFLE (CONTINUOUS ON SOLID WALL;
SEE OPTIONAL GRAVITY INLET SECTION.)

FRAMING MEMBERS, 2X8

POULTRY NETTING, 3/4"

POST, 2-2X8X12' P.P.T.
4'0" O.C.

1/2" EXT. PLYWOOD

VAPOR BARRIER, 6 MIL POLY

INSULATION, R-19

SILL, 2-2X8 P.P.T.

FLOOR, 4" CONC.

GRAVEL FILL, 6"

SKIRT, 2 - 2X8 P.P.T.

EXPANDED POLYSTYRENE,
1 1/2 X 24"

2X4 P.P.T.

COLLAR, CONC. 6' X 16" DIA.
WITH 2-1/2" DIA. X 12" L.
ANCHORS

CONCRETE PAD
6' X 16" DIA.

INLET NOTES:

Solid Wall:

Provide continuous slot along both side walls, break
6 ft. each side of fan banks. Minimum full opening of
3.5 in. (brood end) or 6.0 in. (grow out end).

Curish Wall:

Boxed inlets 8 in. X 46 in. placed 24 ft. o.c. Use
pressure setting of 0.10 in. water column all year.

Controls:

- 1) Gravity inlets require no controls.
- 2) Continuous hinged inlet automatically controlled to
maintain negative inside house pressure of 0.10 in.
water column (winter) or 0.05 in. (summer).

LAG BOLT

PULLEY

NYLON CORD (ATTACHED
WITH CABLE CLAMP TO
1/8" CABLE)

PLASTIC CURTAIN CLIP

1/2" ELECTRICAL
CONDUIT

INSULATED CURTAIN

3/4" POULTRY NETTING

INSULATED CURTAIN DETAIL

NOT TO SCALE

1 1/2" X 18" FOIL FACED POLYURETHANE

2X2

2X10

2X2

8" OPENING COVERED
WITH 1/2" MESH

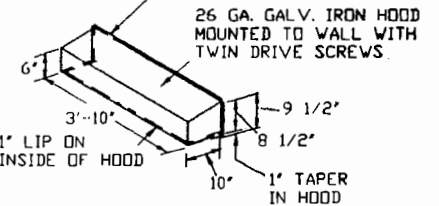
SOFFIT

MOVABLE SHELF TO PROVIDE WALL INLET SLOT,
1 1/2" X 24" FOIL FACED POLYURETHANE
SUPPORTED BY 1X4X18" BOARD AND
1/2" SHELF BRACKETS

GRAVITY INLET SECTION

(OPTIONAL)
SCALE 3/4" = 1'-0"

1" FLANGE ON 3 SIDES



AIR INLET HOOD DETAIL

NOT TO SCALE

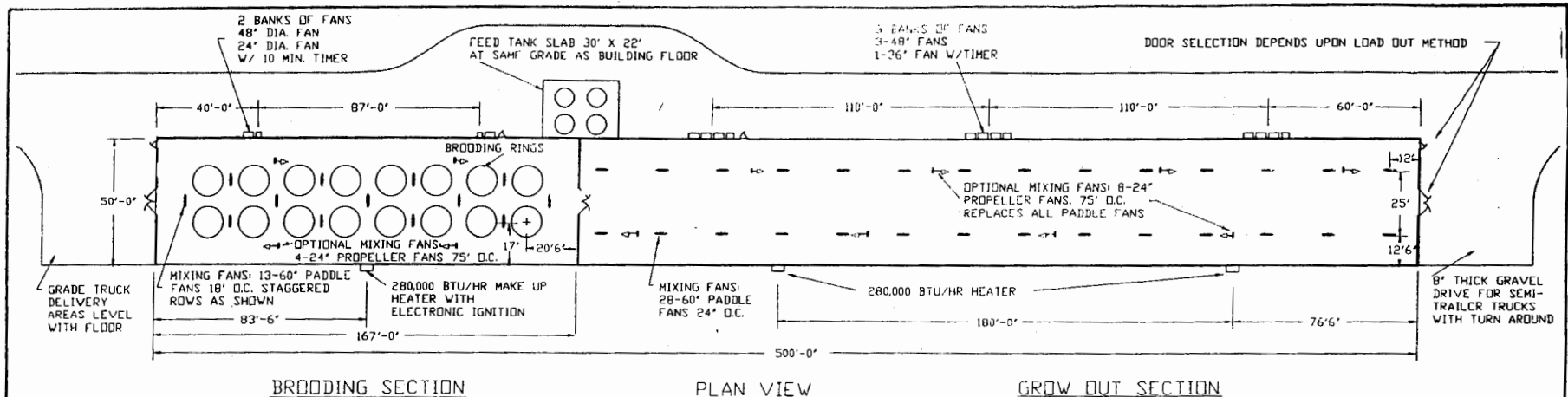


TURKEY BROODING AND
GROW OUT FACILITY

NY 88

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BROODING SECTION

PLAN VIEW

GROW OUT SECTION

SCALE 1" = 30'

VENTILATION AND HEATING CONTROL GUIDELINES

Moisture Control Ventilation: Moisture ventilation requirements will require 0.05 to 0.20 cfm per live weight, depending upon inside to outside absolute humidity differences. Provide necessary air exhaust rates by setting the on time of each timer controlled fan.

Temperature Control Ventilation: Room temperatures are maintained at the desired room temperature (DRT) by staging selected fans as temperatures exceed the DRT. Ventilation rates for temperature control are increased from minimum levels to maximum in stages as follows:

Brooding Section: Provide 3 stages of exhaust ventilation as follows: Stage 1 = continuous operation of the two 24 inch timer controlled fans (thermostat in parallel control with timer control) when room temperature exceeds (DRT); Stage 2 = activation by thermostat of (1) 48 inch fan at DRT + 3°F; and Stage 3 = activation by thermostat of 2nd 48 inch fan at DRT + 6°F.

Grow out Section: Provide 4 stages of exhaust ventilation as follows: Stage 1 = thermostat activation of the three 36" timer controlled fans to continuous operation at or above the DRT; Stage 2 = activation of two 48 inch fans at DRT + 3°F; Stage 3 = activation by thermostat of three 48 inch fans at DRT + 6°F; Stage 4 = activation of remaining four 48 inch fans at DRT + 9°F. Use fans from different banks when possible at each stage.

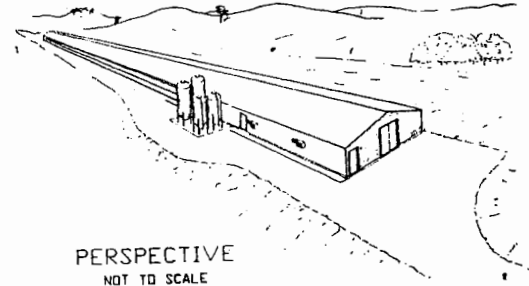
Air Mixing: Provide 2 cfm per square foot of floor space for interior air mixing. Use variable speed controllers to operate mixing fans in both brooding and grow out sections. Use a controller with a minimum of 3 speed selections. Adjust speeds to promote comfort, but avoid chilling of young poults. Wire mixing fans in each building section into 2 separate circuits with alternate fans on a single circuit.

Curtain Ventilation (Optional): Continuous side wall curtains can be used to replace all temperature control exhaust fans (not moisture control fans or mixing fans). Curtains should be controlled by mechanical winch activated by thermostat. Provide one thermostat for each side wall curtain. Set thermostat on leeward wall curtain at DRT and at DRT + 2°F on windward wall thermostat.

Heaters: Control each heating unit by a separate thermostat. Set thermostat at DRT - 2°F (Brooding Section) and at DRT - 2°F (Heater #1 Grow out section) and DRT - 4°F (Heater #2 Grow out section).

Micro-Processor Control: For tighter control of temperature spread between stages, commercial micro-processor controllers can be used, which maintain typical temperature ranges between heating and cooling of 3 to 4°F.

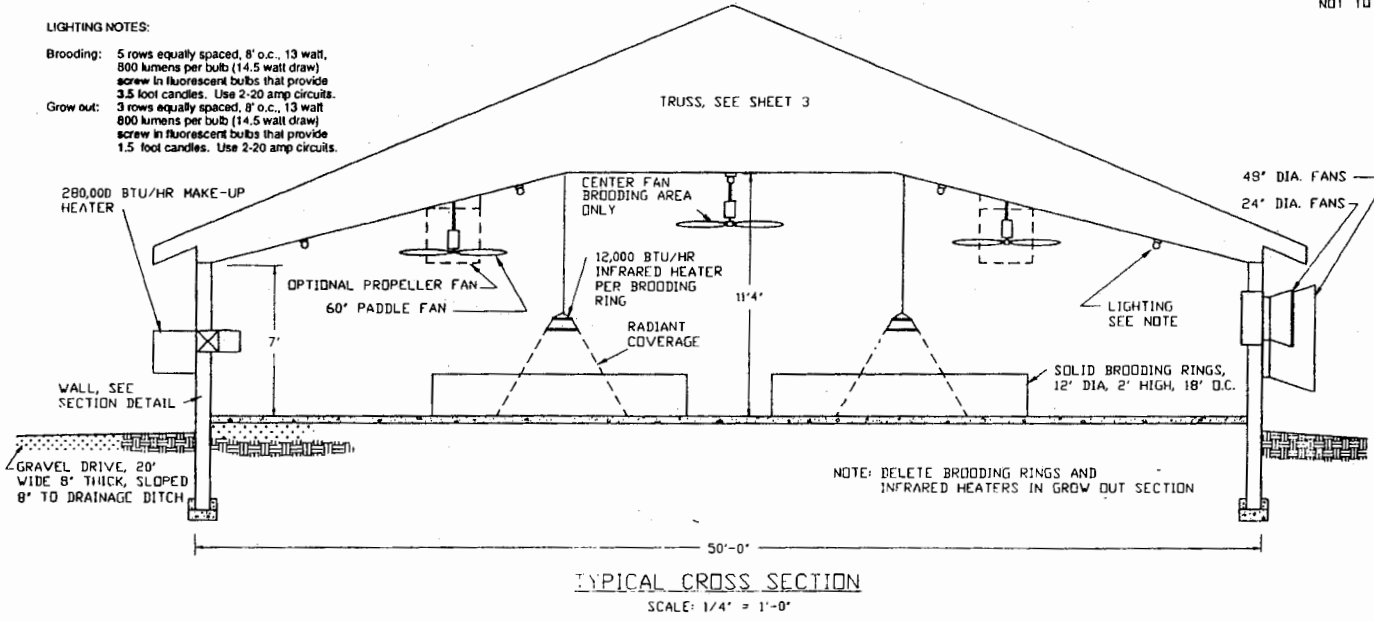
See sheet #3 for management and housing guidelines.



PERSPECTIVE
NOT TO SCALE

LIGHTING NOTES:

- Brooding:** 5 rows equally spaced, 8' o.c., 13 watt, 800 lumens per bulb (14.5 watt draw) screw in fluorescent bulbs that provide 3.5 foot candles. Use 2-20 amp circuits.
- Grow out:** 3 rows equally spaced, 8' o.c., 13 watt 800 lumens per bulb (14.5 watt draw) screw in fluorescent bulbs that provide 1.5 foot candles. Use 2-20 amp circuits.



TYPICAL CROSS SECTION

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

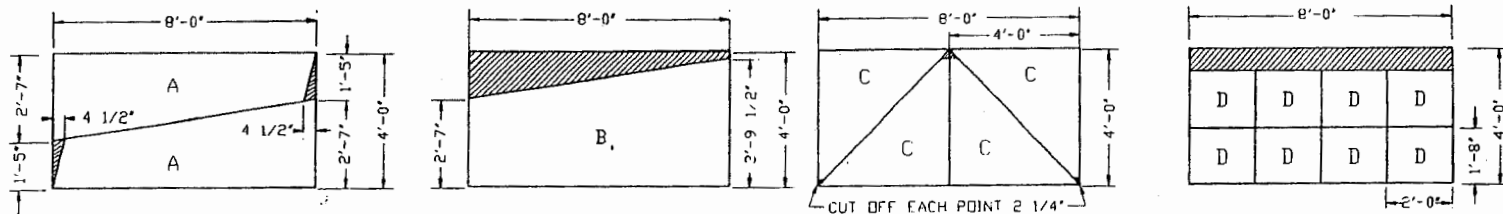
GENERAL RECOMMENDATIONS:

1. Determine if water supply is pure and sufficient.
2. Check with electric utility about easements and service.
3. Check with local governments about zoning and building restrictions or required permits.
4. Check dimensions of manufactured equipment to be installed before starting construction.
5. All lumber in contact with manure or soil should be pressure preservative treated (P.P.T.).
6. All electrical fixtures should be moisture resistant industrial grade and U.L. approved.
7. All doors to be well fitted inside frames with positive stops and essentially air tight. All wall and ceiling construction to be air tight.



TURKEY BROODING AND GROW OUT FACILITY

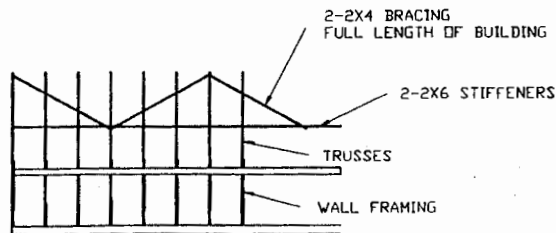
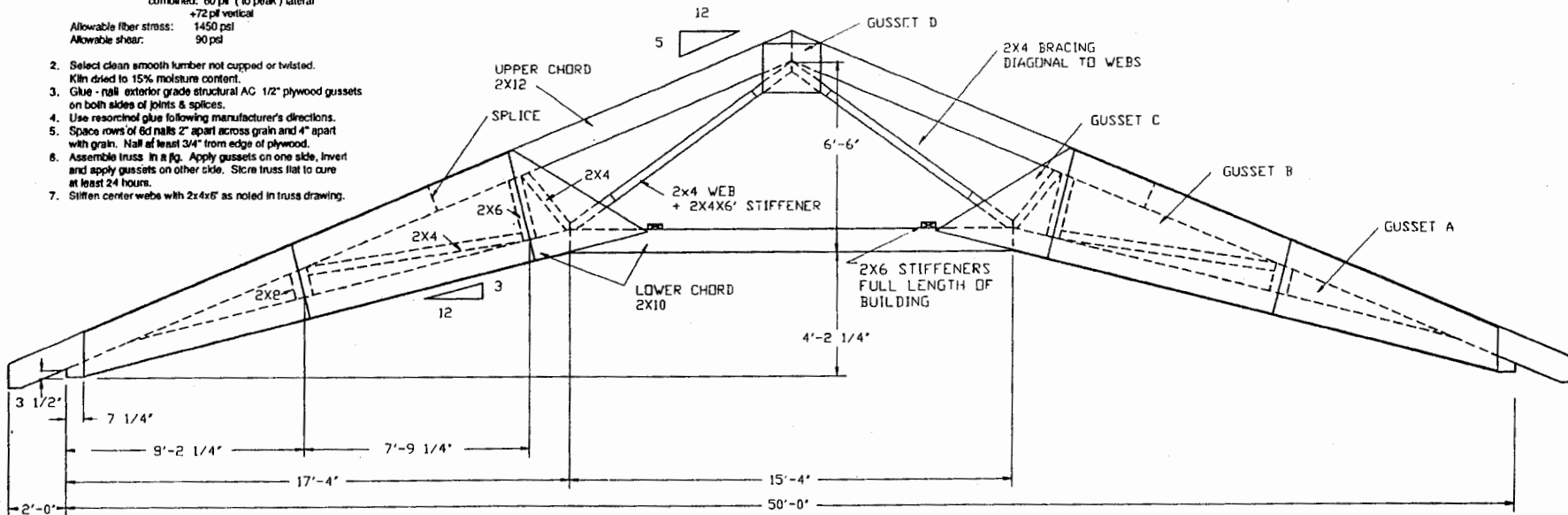
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PLYWOOD GUSSET CUTTING DIAGRAM (7 1/4 SHTS/TRUSS)
SCALE: 3/8" = 1'-0"

TRUSS NOTES:

- Design loads: (Truss spacing 4' o.c.)
vertical: 160 plf (40 psf x 4')
combined: 60 plf (to peak) lateral
+72 plf vertical
Allowable fiber stress: 1450 psi
Allowable shear: 90 psi
- Select clean smooth lumber not cupped or twisted.
Kiln dried to 15% moisture content.
- Glue - nail exterior grade structural AC 1/2" plywood gussets on both sides of joints & splices.
- Use resorcinol glue following manufacturer's directions.
- Space rows of 6d nails 2" apart across grain and 4" apart with grain. Nail at least 3/4" from edge of plywood.
- Assemble truss in a jig. Apply gussets on one side, invert and apply gussets on other side. Store truss flat to cure at least 24 hours.
- Stiffen center webs with 2x4x6" as noted in truss drawing.



WIND BRACING DETAIL
NOT TO SCALE

MANAGEMENT AND HOUSING GUIDELINES

DENSITY:	1-10 DAYS	0.33 ft ² PER POULT PROVIDED WITH RINGS (300 to 400 POULTS PER 12 FT RING)
	TO 8 WEEKS	0.85 TO 1.5 ft ² PER BIRD OR 1.0 ft ² PER HEN OR 0.17 ft ² /lb
	GROW OUT	1.2 ft ² PER TOM OR 0.14 ft ² /lb 2.0 ft ² PER HEN OR 0.13 ft ² /lb 3.0 ft ² PER TOM OR 0.12 ft ² /lb
HEATING:	BROOD TEMP. SCHEDULE	95° F FOR FIRST WEEK LESS 5° F/WEEK UNTIL GROW OUT TEMP IS REACHED.
	GROW OUT TEMP. SCHEDULE	68° F OR AMBIENT TEMPERATURE
WATERERS:		FOUR 8 FT TROUGH OR TEN ROUND HANGING WATERERS PER 1,000 BIRDS (ALL AGES). ADD 8 GALLON DRINKERS IN EACH BROODING RING.
FEEDERS:		14 TURKEY TYPE PANS PER 1,000 BIRDS. 10 to 12 POULT FEEDERS PER RING (25 to 30 PER 1,000 POULTS) FOR FIRST 10 DAYS.
SAFETY:		PROVIDE STANDBY POWER GENERATOR (20 to 30 kW UNIT) AND AUTOMATIC SWITCHING AND AUTOMATIC-DIAL ALARMS.



TURKEY BROODING AND
GROW OUT FACILITY

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Disclaimer

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