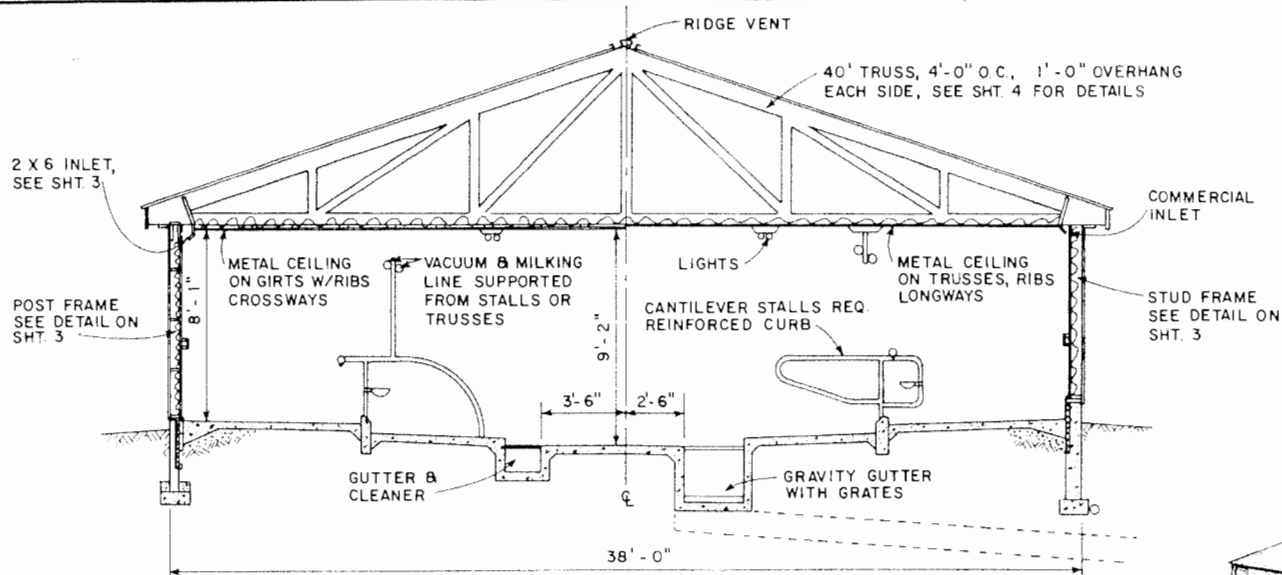




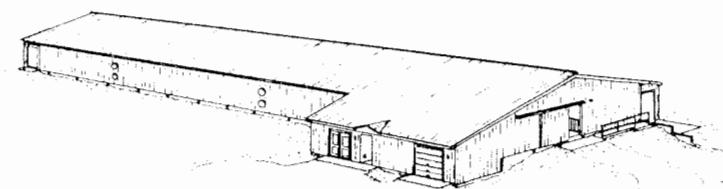
OPTIONS AND CROSS SECTION

SCALE 1/4" = 1'-0"

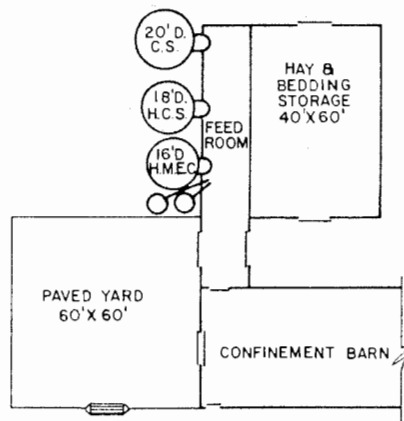
ANIMAL SIZE			TIE STALLS	
COW	GIRTH	WEIGHT	WIDTH	LENGTH
SMALL	71"	1000 LBS.	4'-0"	5'-0"
MEDIUM	78"	1300 LBS.	4'-3"	5'-6"
LARGE	86"	1600 LBS.	4'-6"	6'-0"

NOTES:

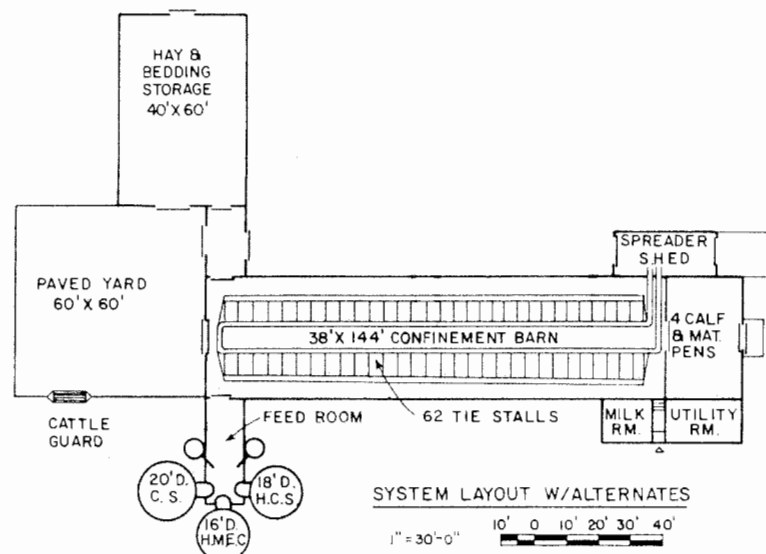
1. DETERMINE IF WATER SUPPLY IS PURE AND SUFFICIENT.
2. CHECK WITH ELECTRIC UTILITY ABOUT EASEMENTS & SERVICE.
3. CHECK WITH LOCAL GOVERNMENTS ABOUT ZONING & BUILDING RESTRICTIONS OR REQUIRED PERMITS.
4. SUBMIT PLANS TO YOUR MILK INSPECTOR FOR APPROVAL AND MAKE ARRANGEMENTS TO SHIP MILK.
5. CHECK DIMENSIONS OF MANUFACTURED EQUIPMENT TO BE INSTALLED BEFORE STARTING CONSTRUCTION.
6. ALL LUMBER IN CONTACT WITH MANURE OR SOIL SHOULD BE PRESURE PRESERVATIVE TREATED (P.P.T.).
7. MILKLINE MUST BE SUPPORTED AT A UNIFORM SLOPE FOR DRAINAGE.
8. MILKROOM MUST BE HIGH ENOUGH FOR BULK TANK CALIBRATION AND MILK MEASUREMENT (WITH DIP STICK).
9. FLUORESCENT LIGHTS SHOULD BE MOISTURE RESISTANT, INDUSTRIAL GRADE FIXTURES.
10. APPROVED BY NORTHEAST DAIRY PRACTICES COUNCIL MAR 1986.



PERSPECTIVE



ALTERNATE FEED STORAGE

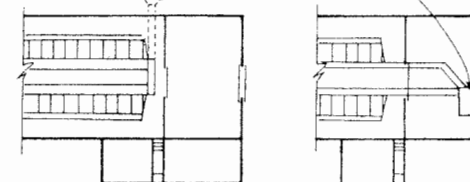


SYSTEM LAYOUT W/ALTERNATES

1" = 30'-0"

GRAVITY FLOW GUTTERS, CROSS CHANNEL 24" DIA PIPE TO STORAGE OR LOADING

GUTTER CLEANER & RAM PUMP TO STORAGE OR LOADING

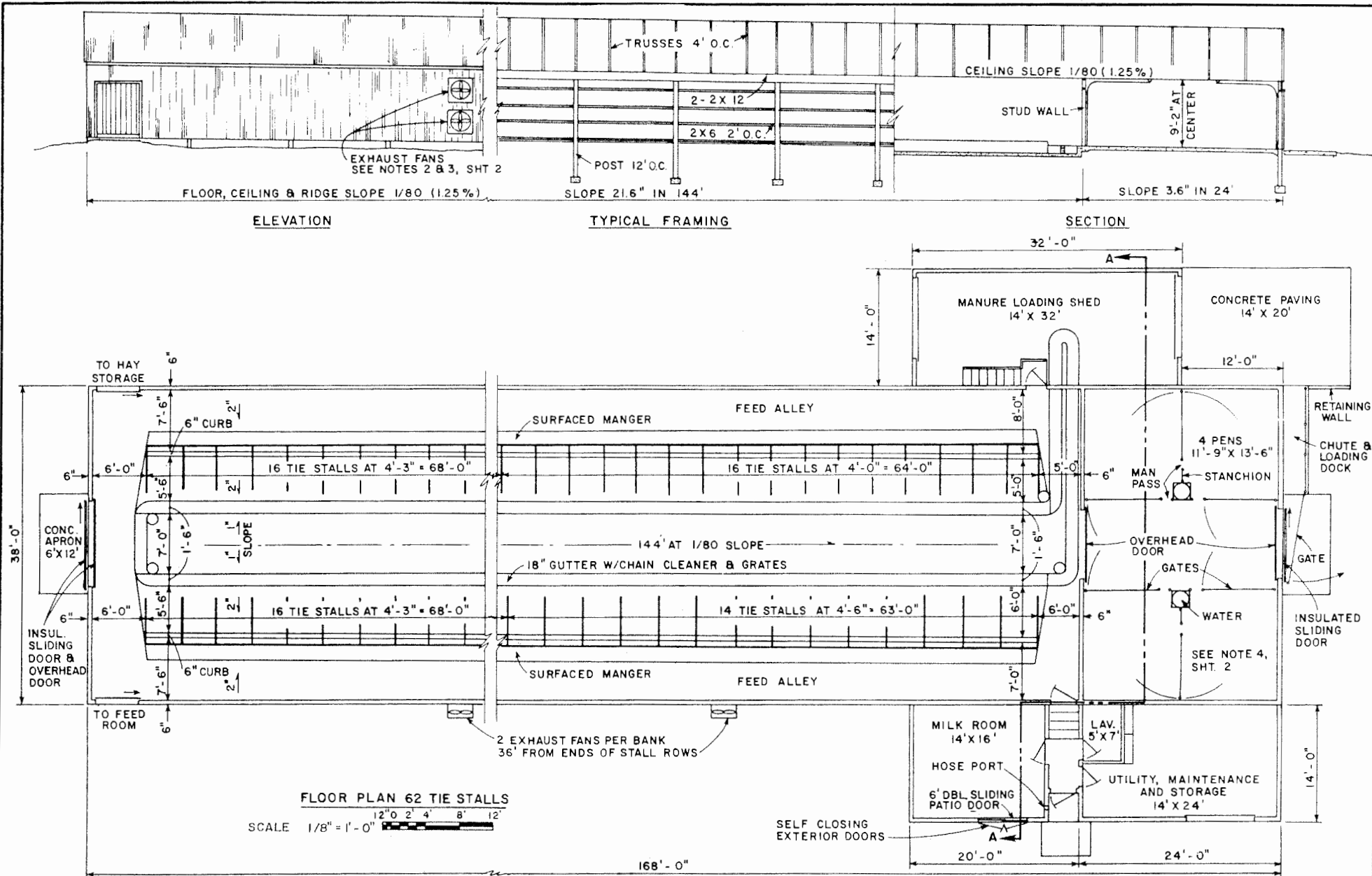


ALTERNATE MANURE HANDLING OPTIONS

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SINGLE STORY SLOPING
TIE STALL DAIRY BARN

NY '86 6378 SHEET 1 OF 4



VENTILATION SCHEDULE

INSIDE (°F)	RATE PER COW	(CFM) TOTAL	AIR EXCHANGE TIME (MIN.)	INLET ¹ WIDTH (IN.)
BELOW 35	INFILTRATION ONLY			0.0
35	30	1900	24	0.16
45	60	3700	12	0.32
50	120	7500	6	0.64
60	240	14900	3	1.3
75	300	18600	2.4	1.6
ABOVE 75	ADD CIRCULATION FANS			

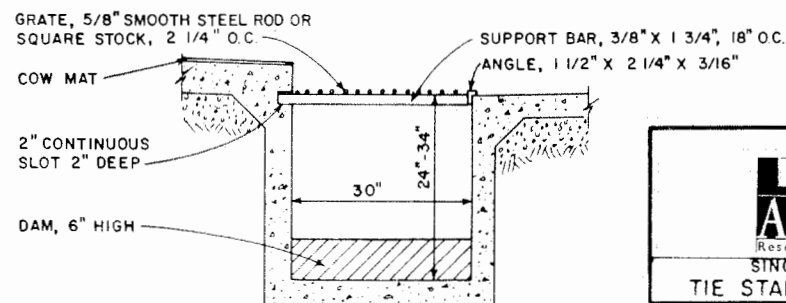
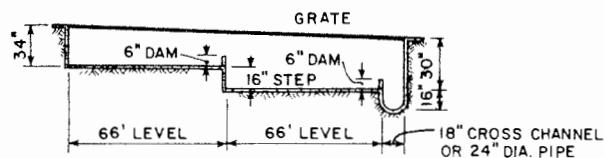
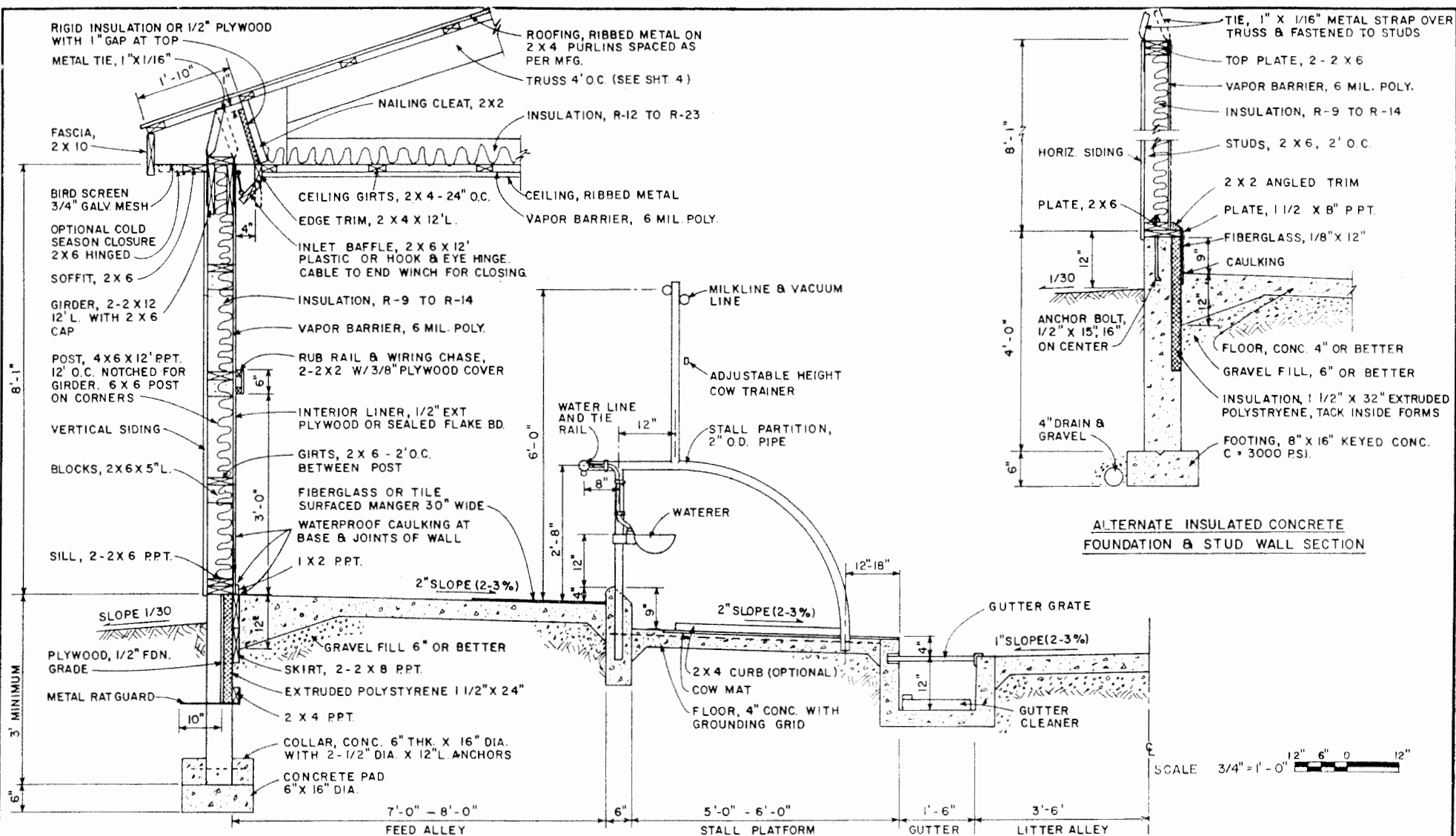
NOTES:

1. OPENING BASED UPON 700'/MIN. AIR VELOCITY AND 200' SLOT INLET.
2. LOW LEVEL EXHAUST FAN COMPLETE WITH GUARDS, INSIDE LOUVERS, OUTSIDE HOOD & MULTI-SPEED CONTROL FOR 1000 CFM TO 4000 CFM AT 0.10" SP. (1 EACH BANK)
3. HI-LEVEL EXHAUST FAN ADDS 4000 CFM OR MORE FOR WARM SEASON VENTILATION. TURN OFF WITH FUSED SWITCH & USE INSULATED COVER IN COLD WEATHER.
4. FOR ANIMALS IN PENS USE EXHAUST FAN TO CHANGE AIR EVERY 10 TO 20 MIN. (400 TO 800 CFM) OR IN COLD CLIMATES AN AIR-TO-AIR HEAT EXCHANGER 150 TO 600 CFM.

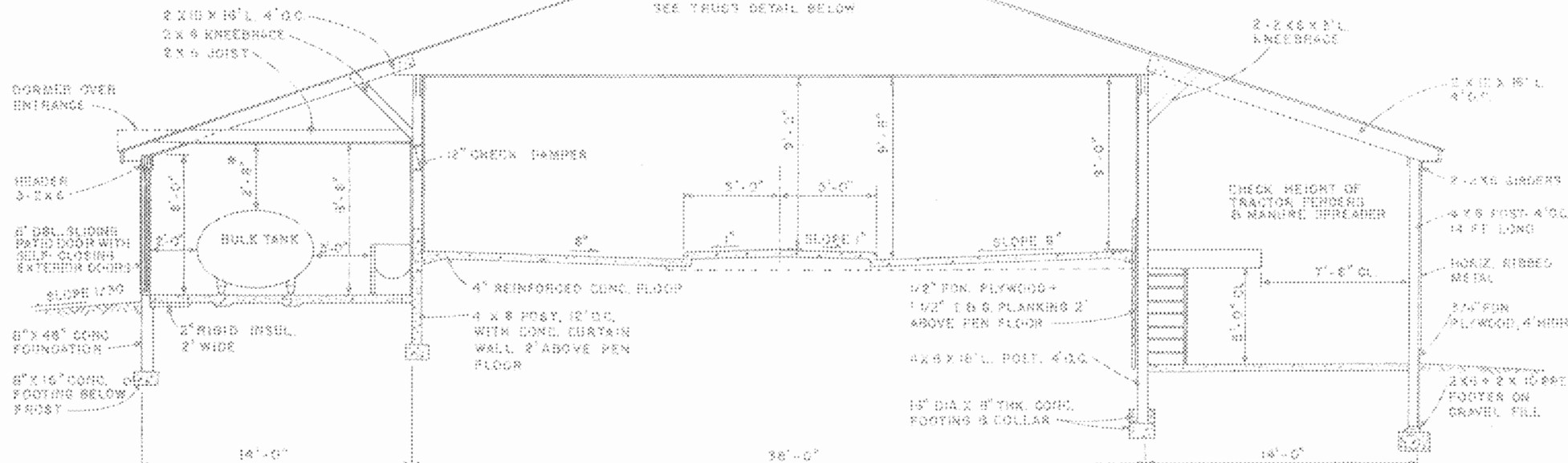
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SINGLE STORY SLOPING
TIE STALL DAIRY BARN

NY '86 6378 SHEET 2 OF 4

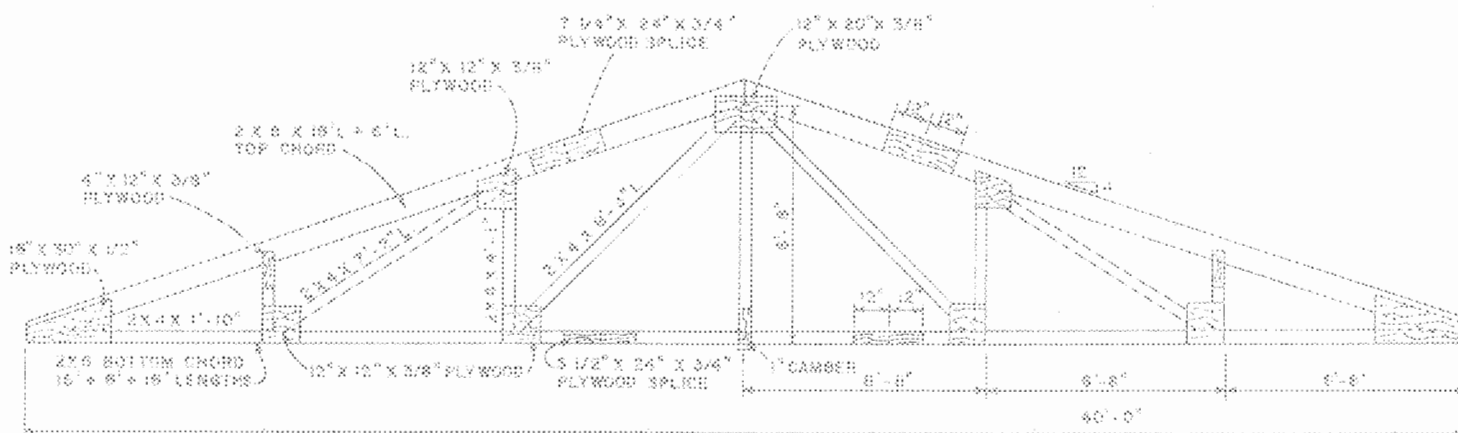


SEE TABLES DETAIL BELOW



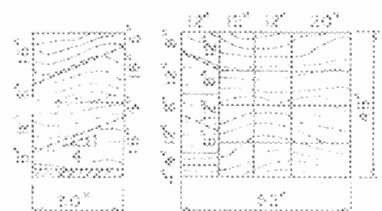
SECTION 4-6

SC61F 1.25×10^6 ~~XXXXXXXXXX~~



TRUSS DETAIL - SPACED 4'-0"

	2^0	2^1	2^2	2^3	2^4
SCALE	3/8 ²	1/4 ²	1/8 ²	1/16 ²	1/32 ²



PLYWOOD SUBSET CUTTING DIAGRAM

- | | |
|---|--|
| <p>NOTES: 1. MANUFACTURED TRUSS MAY REPLACE TRUSS BUILT ON SITE.</p> <p>2. TRUSS DESIGN ADAPTED FROM MWPS-9 PG. 44-45.</p> <p>3. DESIGN ROOF LOADS & LUMBER STRESSES:</p> <p>FOR 27 PSF USE 1600F LUMBER</p> <p>FOR 28 PSF USE 1400F LUMBER</p> <p>FOR 21 PSF USE 1100F LUMBER</p> <p>FOR HEAVIER ROOF LOADS, DECREASE THE SPACING OF TRUSSES PROPORTIONALLY, E.G. 42 PSF/21 PSF = 2, USE 2' O.C. SPACING.</p> <p>4. SELECT CLEAN SMOOTH LUMBER NOT CUPPED OR TWISTED. KLN DRIED TO 15% MOISTURE CONTENT.</p> | <p>5. GLUE-NAIL EXTERIOR GRADE STRUCTURAL C-C PLYWOOD GUSSETS ON BOTH SIDES OF JOINTS & SPLICES.</p> <p>6. USE REDDINGING RESIN GLUE FOLLOWING MFG'S DIRECTIONS.</p> <p>7. SPACE ROWS OF 8d NAILS 2" APART ACROSS GRAIN & 4" APART WITH GRAIN. NAIL AT LEAST 3/4" FROM EDGE.</p> <p>8. LAP CHORD SPLICES AT LEAST 12" ON EACH MEMBER.</p> <p>9. ASSEMBLE TRUSS IN HQ. APPLY GUSSETS ON ONE SIDE. INVERT & APPLY GUSSETS ON OTHER SIDE. STORE TRUSS FLAT TO CURE AT LEAST 24 HOURS.</p> |
|---|--|



SINGLE STORY SLOPING
TIE STALL DAIRY BARN

NY 786	6378	SHEET 4 OF 4
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Disclaimer

This site makes available conceptual plans that can be helpful in developing building layouts and selecting equipment for various agricultural applications. These plans do not necessarily represent the most current technology or construction codes. They are not construction plans and do not replace the need for competent design assistance in developing safe, legal and well-functioning agricultural building system. The LSU Agriculture Center, the Mid-West Plan Service, the United States Department of Agriculture and none of the cooperating land-grant universities warranty these plans.