SECTION THROUGH COLD STORAGE ROOM
NOTES:

TRUSS:
This truss is designed to support loads up to 70 lbs. per foot of span, including the weight of the roof.

All lumber shall be stress graded to provide 1500 psi fiber stress in bending, and 1350 psi, in compression.

Materials for one truss:
- Top chord: 2 pcs. 2x4 x 16'-0"
- Bottom chord: 2 pcs. 2x4 x 14'-0"
- Long webs: 1 pc. 2x4 x 14'-0"
- Short webs: 1 pc. 2x4 x 4'-0"
- Nails: 2 1/4 lbs. 204 common

All projecting nails are to be clinched.

NOTES:

COLD STORAGE: 24'-0" x 24'-0" x 14'-0"

Ceiling height:
- Packing shed: 18'-0" x 24'-0" x 14'-0"
- Sales area: 10'-0" x 24'-0" x 14'-0"
- Roof line continuous over 32'-0" x 24'-0" total area.

Building designed for 50 P.S.F. snow load and 15 P.S.F. wind load.

Loading rate: 300 bushels per day.

NOTES:

Total heat loss:
- Conduction: 4,622 BTU/hr
- Field heat: 25,025 BTU/hr
- Respiration: 3,336 BTU/hr
- Incidental: 3,336 BTU/hr
- Total: 37,059 BTU/hr

12,000 BTU/hr = 1 ton of refrigerant

3.09 tons cooling required

Specify a 3 1/2 ton unit to operate at 32°F, with 85 to 90% relative humidity and an air flow rate of 3,000 c.f.m. at velocities of 800 feet per minute at duct exits.

CUTTING DIAGRAM FOR SHORT WEB
(All other cuts made after the truss is assembled)

LONGITUDINAL SECTION

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STORAGE BUILDING
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