**Floor Plan**

**Recommendations**

1. Capacity of storages: 6000 cubic ft at 1.3 ft per minute, 1 ft per minute deep.
2. Fans at 15000 cubic ft at 1000 cubic ft per minute. Must be driven by 1/2 HP motor.
3. Remove caps and seal up existing exhaust openings.
4. If more fans are available, plan overhead or on front with outlet toward storage end.
5. Seal ventilation chamber from bins.
6. The above procedure for work you may consider a center exhaust in each bin to ventilate the highest conditions.
7. Potato storage should not be smaller than 3/6 of bin.
8. Manually operated dampers in ventilation system suggested.
9. Arrange for air to flow into storage bins from source constructed in adjoining bins.
**Recommendations**

1. Computed C.M.P. at 12'6" depth & 0.01 cu/yd. capacity of building 10,000 cu/yd.
2. Fan capacity 25,000 cfm, based on 1000 per cu/yd. Munsell color at
   8% ash, 90% material.
3. Leave existing exhaust fans in place for use if desired. Not
   required in system.
4. Place make fan approximately 40' from rear of building.
5. Seal plenum chamber from bins. Permanent wall at top
   may be helpful.
6. Inlet duct area should not be smaller than 12" x 12" area.
7. Spaced duct using 6" material.
8. Recommend closing top of center wall for cladding.

**Section**

Scale: 1/8" = 1'0"
**Recommendation**

1. Calculated capacity at 12" depth: 6.52 cft/ft². Capacity of building 88,000 ft², 12'8" in length.
2. Fan cap. 280 cfm. (Based on 15 cfm per ft².)
3. Base fan on 1/2" static pressure.
4. No need for water fan.
5. Index area or alley should be sealed from main.
6. Duct size to fan should not be smaller than 1/4" round.
7. Automatic control not really necessary.
8. Remove chamber's ducts letting plywood work at the pressure from potatoes.
9. Close use the breathing wall removed at place of plywood (no spacing) on ducts.
10. May have to close front top of interior wall making more uniform air flow through center ducts.
11. The top of new center duct maybe left open (1") allowing air to swerve along floor.

**Section**

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