Chew Calvin A19MJ0023

(21) 
$$T_{N} = T_{1} (N)^{m}$$
  
 $7_{1}h = 53$   
 $12_{1}h = 49$   
 $49 = 53 (\frac{12}{7})^{m}$   
 $0.9245 = (\frac{12}{7})^{m}$ 

 $\ln 0.9246 = m \ln \frac{12}{7}$ 

m= -0.1456

 $-0.1456 = \frac{\ln x}{\ln 2}$ 

2= 0.90 398

LR = 90. 4%

 $T_{37} = T_7 (N)^{m} -0.1466$   $T_{37} = 53 (\frac{37}{7})$ 

= 41.59 min

with the cycle time decrease, the number of cycle will in clease. This is due to the worke or operator as gain experience or more expertise when executed their task. This will decrease the working time.

$$W = 3 \times (\pi + 1)$$

$$V = 144 \text{ in}$$

$$L = 50 \times (\pi + 1)$$

$$V = 3 \times (\pi + 1)$$

$$L = 50 \times (\pi + 1)$$

$$V = 2800 \text{ in}$$

$$V = 3 \times (\pi + 1)$$

$$V = 3 \times ($$

by considering Specific dimension, the capacity is 4800. The system dimension will depend on how the 4 aisle are arranged with the facility.