







Bin Size:	8.5 x 12x 4"	11 x 12 x 4"
Racks:	26	6
Total Cost:	\$9,218	

Abdulrahman Alissa aalissa1@uncc.edu

Qublan Alotaibi qalotaib@uncc.edu

Aaron Armstrong aarmst37@uncc.edu

Muhannad Bazuhayr mbazuhay@uncc.edu



Yack. Printer	Current State	Proposed Solution	Expected
G	Carousel Footprint: 520 Sq. Ft.	Pick Rack Footprint: 96 Sq. Ft.	424 Sq. Ft. Warehouse saved
RUCK SAY 1	Incoming parts storage process: 4.0123 mins	Optimized incoming parts storage process: 2.7998 mins	1.3 minutes turnaround
RUCK BAY 2	Outgoing parts shipment process: 4.9699 mins	Optimized outgoing parts storage process: 3.2635 mins	1.7 minutes turnaround
Cabinet	Incoming parts storage labor costs: \$1.20/min	Optimized incoming parts storage labor costs: \$0.84/min	Saves \$0.36 labor costs a \$44,928/yr
	Outgoing parts storage labor costs: \$1.49/min	Optimized outgoing parts storage labor costs: \$0.98/min	Saves \$0.51 labor costs a \$63,648/yr

Estevan Torres etorres8@uncc.edu