

#### Project Cost Evaluation *1.5.*

#### 1.5.1. Construction Costs

Projected Building Cost  $\cong$  \$22,000,000 Cost / SF  $\cong$  \$46.32

# 1.5.2. Total Project Costs

Total Project Cost  $\cong$  \$32,000,000 Cost / SF  $\cong$  \$67.36

# 1.5.3. Building System Costs

Building systems costs are confidential as per Gilbane Building Company's request.

### 1.5.4. Parametric Estimate

	CSI Division	%	Sq. Ft. Cost	Projected Cost	
00	Bidding Requirements	0.00	0	0	
01	General Requirements	8.07	4.05	1,923,918	
02	Site Work	0.00	0	0	
03	Concrete	13.41	6.73	3,195,536	
04	Masonry	1.45	0.73	345,264	
05	Metals	15.16	7.61	3,613,092	
06	Wood & Plastics	0.14	0.07	33,524	
07	Thermal & Moisture Protection	4.35	2.18	1,037,250	
08	Doors & Windows	2.40	1.2	572,059	
09	Finishes	9.06	4.55	2,160,128	
10	Specialties	0.99	0.49	234,922	
11	Equipment	0.97	0.49	230,676	
12	Furnishings	0.16	0.81	40,213	
13	Special Construction	0.00	0	0	
14	Conveying Systems	0.00	0	0	
15	Mechanical	16.59	8.33	3,955,324	
16	Electrical	11.25	5.65	2,682,385	
D4	Total Building Costs	84.00	\$42.24	<u> </u>	

<sup>\*</sup> excludes mechanization equipment, distribution equipment, land costs, sitework, permitting, etc.\*

<sup>\*</sup> Actual Building Cost does not represent the actual building cost for this project \*

<sup>\*</sup> excludes mechanization and distribution equipment\*

### FedEx Ground Distribution Hub

#### 1.5.5. Design Costs

Due to the nature of the project, design costs are not able to be determined. Typically the design cost is approximately 8% of the total project cost.

Total Project Cost  $\cong$  \$32,000,000 Design Cost  $\cong$  \$2,560,000

# 1.5.6. Square Foot Estimate Using R.S. Means

Reference: R.S. Means Construction Cost Data (2004), 62<sup>nd</sup> Annual Edition

Assumptions: 1. Building Type: Warehouse and Office combination

- 2. Median unit cost data was used: \$47.00/sf
- 3. Size Modifier: 15.00 ∴ Cost Multiplier = 0.90
- 4. Location Adjustment = 0.881 (weighted average)
- 5. No adjustment was taken for time

### Calculation:

R.S. Means Total		\$17,435,825
Size Adjustment	-	\$2,656,675
Location Adjustment	-	\$2,232,500
Unadjusted Total		\$22,325,000
Cost per Square Foot	X	\$ 47.00 /sf
Building Size		475,000 sf

### 1.5.7. Estimate Comparison

			variation	
	Sq. Ft.		From	
	Cost	Projected Cost	Projected	Deviation
D4 Cost Estimate	\$42.24	\$20,062,351	\$1,937,649	8.81%
R.S. Means Estimate	\$36.71	\$17,435,825	\$4,564,175	20.75%
Projected Building Cost	\$46.32	\$22,000,000		

Several estimates of the FedEx Ground Distribution Hub were compiled using various available resources which include: D4 Cost estimating software and R.S. Means Construction Cost Data. Differences in the building cost estimates can be significantly affected by many factors such as environmental conditions, economic factors and owner specified constraints.

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<sup>\*</sup> Design Cost shown above does not represent the actual design cost for this project \*

D4 Cost estimating software used the smart average of three warehouse and distribution projects. These projects were chosen for their simplicity in structure, electrical and mechanical systems. The estimated square footage was adjusted to 475,000 resulting in an approximate project cost of \$20,062,351. This estimated cost was within approximately 9 % of the projected building cost. The difference between costs cannot be attributed to sitework because sitework was taken out of the D4 estimate. This difference could be a resultant of economic conditions such as the current increase in steel and concrete costs. Also, this project is fast-tracked and the structure is to be turned over to the owner within 12 months. Fast-tracking a project such as this can attribute to the increased projected building cost.

R.S. Means Construction Cost Data for 2004 was used to perform another estimate which yielded a deviation of over 20 %. This method of estimating a project is only applicable for the building itself. Specialty systems within the building such as redundant electrical systems and fiber optic data communication systems are not included. Also, economic factors and owner constraints are not accountable. The same factors that affected the D4 estimate are also viable reasons for the difference between the R.S. Means value and the actual projected cost.