

**Lease No. AYD-350**

**between**

**THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY**

**and**

**JETBLUE AIRWAYS CORPORATION**

**Volume V of VI**

**EXHIBIT 2.11**

**“Construction Trade Cost Estimate”**

**to Lease No. AYD-350**

**between**

**THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY**

**and**

**JETBLUE AIRWAYS CORPORATION**

  
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**For the Port Authority**

**Initialed:**

  
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**For the Lessee**

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**Section 1.0**

**Construction Trade Cost Estimate**

## **Section 1.1**

**All work elements excluding Parking Garage**



JFK International Airport  
Terminal 5  
Redevelopment

60% CD Estimate

April 20, 2005



THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY  
JOHN F. KENNEDY  
INTERNATIONAL AIRPORT

Stage 2 Construction Trade Cost Estimate

EXHIBIT 2.11 Part 1 of 2

Assumptions and ClarificationsGeneral

1. This estimate assumes the project is Tax Exempt.
2. This estimate is based on the Owner providing all risk/builder's risk insurance, covering the interests of the Owner, Turner and the subcontractors, this policy will incorporate a waiver of subrogation unless negligence is proven. Costs for deductibles are not included in the GMP.
3. This estimate assumes all Controlled inspections are to be by the Owner. Costs for these inspections are not included in the estimate.
4. The scope of work included in the estimate is based solely on the 60% drawings, VE sketches and the progress drawing for the Airside Civil. The Landside Civil estimate has not been updated. The quantities and pricing reflect the conceptual concept drawings dated September 9, 2004. Any changes from subsequent city or other agency approvals (Port Authority) are not included in the GMP.
5. Allowances as defined in the estimate include all costs associated with a particular item, including furnishing material, delivery, handling, installation costs, bond, insurance and associated subcontractor mark-ups. Turner's General Conditions costs are included in the estimate up to the amount of the allowance. Costs for required work beyond the amount of the allowance shall increase or decrease the estimate by that amount.
6. Deleted
7. This estimate assumes that all filing fees are by the Owner.
8. This estimate assumes that a CCIP/ OCIP program will be used. The costs associated with standard general liability insurance are not covered with the cost included in the estimate and would be an increase to 12.5%.
9. This estimate includes escalation up to the 4<sup>th</sup> Quarter of 2005.
10. This estimate does not include a payment and performance bond or a Turner Bond. Default insurance is included for subcontractors.
11. This estimate is based on the attached construction schedule, dated March 7, 2005.
12. This estimate does not include any costs for project staff parking and/or shuttle services. Turner assumes the Owner will provide a shuttle service from a designated project parking lot.
13. This estimate does include costs for Tenant Concession stub-ups but have not included costs for fit-out of concession spaces.
14. This estimate does not include the cost of hiring a monitoring consultant to perform pre-construction survey of existing condition or the cost of monitoring all existing buildings during the period of driving piles.
15. This estimate includes an allowance of \$42/Ton (per Jet Blue) for contaminated material excavation and disposal.
16. This estimate does not include any T6 expansion cost or impacts.
17. This estimate does not include costs for phasing. This estimate assumes one continuous project.
18. This estimate is based on the attached accepted VE list.
19. This estimate does not include any of the following cost for airside deliveries
  - i. Up charges to General Liability Insurance
  - ii. Premium for subcontractor inefficiencies
  - iii. Escort charges
20. This estimate includes an allowance of \$250,000 for SIDA escorts.

Assumptions and Clarifications

21. This estimate includes the cost for the AirTrain based on the straight not the segmented design.

Excavation and Foundations

22. This estimate includes an allowance of \$100,000 for local dewatering during construction of the foundations.
23. This estimate includes the specified concrete filled monotube piles 40' deep. The pile lengths are based on the recommendations in the Geotechnical Report dated October 2005 from DMJM/Harris.
24. This estimate has included pile adjustments due to obstruction but has not included the cost for the redesign of pile caps.
25. This estimate includes fusion bonded epoxy for the top 15'-0" of all piles.
26. All cost for PDA's and load test has been included in the building estimate.
27. Temporary heat and cold weather concreting have not been included in this estimate.
28. Controlled inspections for piles are not included in this estimate.

Structural Steel

29. This estimate assumes King Post Truss A is typical for Trusses B-H.
30. This estimate includes WWF for all slabs. Additional reinforcement has been provided over the girders and along the perimeter cantilever.
31. This estimate includes CIP Concrete Piers for the North Flight Connection Tube.
32. This estimate includes allowances for new bearings for the North & South Flight Connection Tubes.

Roofing and Waterproofing

33. This estimate includes a painted aluminum metal roof for the Ticketing Hall roof. All other roofing systems are included as EPDM including the canopies.
34. This estimate does not include roofing under the AHU's.
35. This estimate does not include the sunscreens along the South side departure level.
36. This estimate does not include the aluminum canopy along the service level.
37. This estimate does not include traffic coating.

Exterior Wall

38. This estimate includes exterior masonry with ground face on one side only.
39. This estimate includes various types of aluminum panel for exterior wall. This estimate does not include any zinc panels.
40. This estimate does not include light monitors.
41. This estimate includes motorized fabric roll-up doors.

Interior Partitions & Finishes

42. This estimate assumes the following wall heights –

### Assumptions and Clarifications

- a. Arrival level – for Offices, Break rooms, Kitchens, Restrooms etc. is an assumed height of partitions 8'-0". -for bag hall, inbound freight, mechanical rooms etc is an assumed height of partitions 15'-0".
- b. Departure levels – for Offices, Break rooms, Hold rooms, Restrooms etc. is an assumed height of partitions 9'-0".
- c. Customer by-pass, east concourse, shafts rooms etc is an assumed height of partitions 12'-0".
43. This estimate includes 2 piece columns are full height wrapped with aluminum panel.
44. This estimate assumes the carpet finishes with stainless steel base in public spaces, carpet, and concrete sealer, vinyl tile with vinyl base in back of house and ceramic tile with ceramic base in the restrooms.
45. The estimate does include "Panelite" light baffles and perforated painted metal panel lining to clerestory.
46. The estimate includes all doors (interior) as shown in the drawings.
47. The estimate includes all millwork as shown in the drawings. This estimate also includes fire rated millwork for this project.
48. This estimate does not include any metal pan ceiling.
49. This estimate includes a floor finish allowance of \$10/sf in the areas labeled T-50, T-51, T-52 and T-55.
50. This estimate includes full height epoxy wall paint in the back of house bathrooms.
51. This estimate does not include epoxy floor paint.

### Specialties

52. This estimate assumes that telephone specialties will be provided by the Owner.
53. This estimate includes HDPE toilet partitions in the back of house spaces.
54. This estimate does not include building Marquee signage.

### Equipment and Furnishings

55. This estimate includes an allowance of \$3,000,000 for FF&E including airport seating.
56. This estimate does not include floor mats and frames.

### Baggage Handling Systems (BHS):

57. This estimate includes an inbound and outbound baggage handling system is provided.
  - a. The BHS generally includes:
    - i. Inbound system: 6 each conveyors runs, plus 1 each oversize conveyor 6 each slope plate carousels, 1 each oversize claim shoot/slide
    - ii. Outbound system: Check-in: 4 each manually fed ticket counter take-away belts, 2 each curbside check-in belt, 2 each oversize belt
    - iii. Sortation/Make-up: 2 each main high-speed sortation lines, 2 each automatic tag readers, 2 each manual encoding lines and workstations and 10 each flat plate make-up carousels

Assumptions and Clarifications

- iv. Screening: Provision is included for 10 each in-line EDS with associated on-screen review and belts feeding ETD screening area. The screening equipment will be provided by TSA.
- b. There is no definition of which of the two types of certified EDS is contemplated. The selection of the EDS will impact the BHS design due to the different throat/aperture and throughput specifications of the L3 and CTX equipment. The selection of the EDS equipment could also impact design requirements as some equipment utilizes water, necessitating appropriate storage and disposal facilities. No allowance is included for the supply, installation and commissioning of the EDS or ETD equipment. No allowance is included for any controls, UPS or furniture associated with the EDS or ETD equipment.

Vertical Transportation

- 58. This estimate is based on using gearless traction elevators. Finishes are as documented and include nickel silver door sills for high wear resistance.
- 59. This estimate includes escalators are light transit quality that incorporate 3x step loading.

Plumbing

- 60. This estimate includes battery powered automatic flush valves and faucets
- 61. This estimate includes tempering valves
- 62. This estimate includes interior and exterior (freeze proof) emergency eyewash/showers
- 63. This estimate includes (7) water services - (2) for domestic, (3) for FSP and (2) for sprinkler.
- 64. This estimate includes exterior hose bibs
- 65. This estimate includes exterior non-freeze wall hydrants - 1 per 300 foot of bldg perimeter.
- 66. This estimate includes water hammer arrestors - 1 per 20 fixtures.
- 67. This estimate includes an allowance of \$15,000 for HWAT.
- 68. This estimate includes an allowance of \$12,000 for expansion fittings.
- 69. This estimate includes five (5) central grease interceptors
- 70. This estimate includes (14) natural gas valved outlets for the retail areas.
- 71. This estimate includes an allowance of \$25,000 for equipment hook-up at pantries and break rooms.
- 72. This estimate excludes interior hose bibbs.
- 73. This estimate excludes trap primers at all floor drains
- 74. This estimate excludes elevator and escalator sump pumps.
- 75. This estimate excludes an oil-water separator for the loading dock drainage system.
- 76. This estimate excludes area and trench drains for the loading dock.
- 77. This estimate excludes local grease interceptors for the retail areas.
- 78. This estimate excludes domestic water suction tank or house tank.
- 79. This estimate excludes Domestic HW heater flue pipes
- 80. This estimate excludes water booster heaters or local HW heaters for the retail areas.
- 81. This estimate excludes a solids/sand interceptor.

Assumptions and Clarifications

- 82. This estimate excludes overflow drains.
- 83. This estimate excludes symphonic roof drain system.
- 84. This estimate excludes stainless steel piping.
- 85. This estimate excludes a natural gas booster system.
- 86. The Terminal estimate excludes any work 5 feet beyond the foundation.
- 87. This estimate excludes independent (3rd party) commissioning agent.
- 88. This estimate excludes retail area fit-out.

Fire Protection

- 89. This estimate includes (2) electric fire pumps and (2) jockey pumps.
- 90. This estimate includes wet type sprinkler system based on 1 head per 100 square feet.
- 91. This estimate includes a dry type sprinkler system for the baggage areas based on 1 head per 72 square feet.
- 92. This estimate includes dry type sprinkler systems for all other areas based on 1 head per 92 square feet.
- 93. This estimate includes a preaction type sprinkler systems based on 1 head per 92 square feet.
- 94. This estimate includes deluge type sprinkler systems based on two rows with heads 10' O.C. per linear foot of coverage area.
- 95. This estimate includes 100 feet of drain piping for each valve assembly.
- 96. This estimate excludes galvanized piping for all dry, deluge and preaction piping systems.
- 97. This estimate excludes any storage or house tanks.
- 98. This estimate excludes any other specialty sprinkler system - Halon, FM-200, etc.
- 99. This terminal estimate excludes any work 5 feet beyond the foundation.
- 100. This estimate excludes independent (3rd party) commissioning agent.
- 101. This estimate excludes retail area fit-out.

HVAC

- 102. This estimate includes solenoid valves tied into the BMS system for the fintube radiation.
- 103. This estimate includes HW unit heaters for the loading dock.
- 104. This estimate includes (50) hot water valved outlets for the retail areas.
- 105. This estimate includes (50) chilled water valved outlets for the retail areas.
- 106. This estimate includes air flow measuring stations and motorized dampers for each duct mounted reheat coil.
- 107. This estimate includes a sound trap on the supply and return ductwork for each air handling unit.
- 108. This estimate does not include fire dampers at each ductwork roof penetration greater than 20' AFF.
- 109. This estimate includes fire smoke dampers for each duct penetrating the floor between the arrivals and departure levels.
- 110. This estimate includes an electric unit heater for each dual air handling unit vestibule.
- 111. This estimate includes heating & ventilating units in lieu of fans only for those systems that provide 100% outdoor air to main MER.
- 112. This estimate includes louvers that are associated with the mechanical systems.

Assumptions and Clarifications

- 113. This estimate includes split system AC units to serve the control center.
- 114. This estimate includes a split system AC unit to serve the control center's UPS room.
- 115. This estimate includes split system AC units to serve (4) elevator machine rooms.
- 116. This estimate includes (8) electrical closet and (6) copy room transfer fans.
- 117. This estimate includes back draft dampers and fire smoke dampers for each exhaust system and H&V system with louvers.
- 118. This estimate includes (48) man coolers in the baggage areas.
- 119. This estimate includes the installation of the generator exhaust flue and muffler only. (furnished by the electrical contractor).
- 120. This estimate includes control devices for the AHU's provided by and field installed by the ATC contractor.
- 121. This estimate includes an allowance for the quantity of ATC control points.
- 122. This estimate includes hot water coils in the VAV terminal units.
- 123. This estimate excludes a rack in the air handling units for carbon filtration media.
- 124. This estimate excludes HW cabinet unit heaters for exterior stairs.
- 125. This estimate excludes retail tenant energy meters -(hot & chilled water)
- 126. This estimate excludes hot or chilled water treatment systems.
- 127. This estimate excludes hot or chilled water filtration systems.
- 128. This estimate excludes energy recovery systems (air-to-air and run around coil systems)
- 129. This estimate excludes carbon filtration media.
- 130. This estimate excludes main chilled water heat exchanger.
- 131. This estimate excludes radiant floor conditioning systems.
- 132. This estimate excludes snow melting systems.
- 133. This estimate excludes stainless steel piping.
- 134. This estimate excludes HW pre-heating coils.
- 135. This estimate excludes humidification in all of the air handling units.
- 136. This estimate excludes dishwasher exhaust.
- 137. This estimate excludes stair pressurization.
- 138. This estimate excludes retail (concession) area exhaust
- 139. This estimate excludes fuel oil storage or distribution systems.
- 140. This terminal estimate excludes any work 5 feet beyond the foundation.
- 141. This estimate excludes independent (3rd party) commissioning agent.
- 142. This estimate excludes retail area fit-out.

Electrical

- 143.
- 144. This estimate assumes the new electrical manholes and the new 5KV electrical cable feeders are provided by Sitework.
- 145. This estimate assumes the high voltage work on the line side 5KV switches at each of the three spot networks is provided by Sitework.
- 146. This estimate includes the Emergency Power Distribution including two 1000kW and one 750kW, 480/277V, 4-wire diesel driven generators with outdoor enclosures located at the stairwells by each Substation
- 147. This estimate does not include feeders from the Emergency ATS-South (1200' from Main Switchgear Room) and Emergency ATS-East (1300' from Main

Assumptions and Clarifications

- Switchgear Room) as noted on Emergency Power Single Line Diagram, Drawing E03.04 Note #3.
148. This estimate includes the Line Side Feeder Type to 1000KV Transformers of 5 sets of 3#500KCMIC + 1#4/0G in 4"C.
  149. This estimate includes all transformers priced with K-4 rating
  150. This estimate includes Transient Voltage Suppression for the Main Switchgear N-1, N-2, S-1, S-2, E-1, and E-2.
  151. This estimate assumes exit lights per 1000 SF.
  152. This estimate assumes Air Handling Unit lighting is with the AHU manufacturer.
  153. This estimate includes an allowance of \$10.00/SF for lighting not shown on the departure level and \$5/sf on the arrival level.
  154. This estimate includes cost savings of \$1,000,000 to provide standard lighting fixtures in lieu of custom.
  155. This estimate includes provisions for mock-ups & samples for lighting fixtures as described in Lighting Fixtures Schedule in Specification Section 16512.
  156. This estimate includes Retail Area Lighting (bare minimum), including 110V circuit.
  157. This estimate does not include any provisions for a dimming system either by local switches or a central system.
  158. This estimate includes a \$1.00/SF Allowance for the lighting control system including lighting contactors, occupancy sensors, photoelectric cells, low voltage raceway and control wire.
  159. This estimate includes wall duplex receptacles [1/250 SF], ground fault receptacles [1/500 SF] & Floor Duplex Receptacles [1/15000 SF].
  160. This estimate includes operations power for the jetway bridge areas and assumes conduit & wiring includes for two feeder from each gateway to respective substation.
  161. This estimate includes a 100V circuit for 50 Retail Tenant Areas for HVAC meters.
  162. This estimate does not include equipment connections for stair pressurization fans.
  163. This estimate includes allowances for equipment connections for the pantry appliances, as per Specification section 11451 and a trash compactor.
  164. This estimate includes line side power wiring for the PDP Panels described on Drawing E00.35. The PDP Panels and all load side wiring is by Baggage Handling System manufacturer.
  165. This estimate includes power connections for TSA Equipment, including X-rays & Manometers.
  166. This estimate includes power connections for terminal signage as described on Architectural Drawing A14.1.1.
  167. This estimate assumes that the Jet Blue/Security VLAN is by Owner.
  168. This estimate does not include an A/V system.
  169. This estimate does not include a clock system.
  170. This estimate does not include wireless access points.
  171. This estimate assumes the incoming copper or fiber services from the telecommunications manholes to the Main Communications Room, as indicated on Drawing T01.03 is by Verizon.
  172. This estimate does not include the (1) 800 pair building entrance protector. We assume this to be furnished and installed by Verizon.

Assumptions and Clarifications

173. This estimate assumes that the Copper Cable Cross Connects in the Main Communications Room are (25) 4-pair Category 5E cables.
174. This estimate assumes all horizontal cabling is to be supported with J-hooks.
175. This estimate includes an allowance for duct smoke detectors not shown on drawings.
176. This estimate assumes that the FATC panels shown on the Fire Alarm Floor Plans are the same as the DGP's indicated on the Fire Alarm Riser Diagram.
177. This estimate includes the interface panel for Fire Alarm Control Panel and Fire Command Center.
178. This estimate includes an allowance for the card access system as there is no scope defined on the security floor plans.
179. This estimate includes pricing for the individual workstations shown on Security Drawing Z03.02.
180. This estimate includes all programming, testing, engineering & training for the fully integrated security system.
181. This estimate does not include any work in TSA Areas as identified on security drawings.
182. This estimate includes maintenance for the one year, and does not include the three and five-year options as discussed in Security General Requirements Specification Section 13700 page 17.
183. This estimate includes an allowance for an 10 kVa UPS System as per Telecommunications Room.
184. This estimate includes 80kva UPS System for the Main Communications Room.
185. This estimate does not include any UPS for baggage handling or TSA equipment.
186. This estimate includes all work associated with the Information Systems (FIDS/BIDS/GIDS) as shown on the telecommunication drawings.
187. This estimate includes an allowance of \$7.50/SF associated with the Information Systems (FIDS/BIDS/GIDS) system and assumes that the infrastructure is included with the telecommunication system.
188. This estimate includes an allowance for 130 GIDS (5 per gate).
189. This estimate assumes the patch cords are furnished & installed by the Owner
190. This estimate does not include 18 pair Multimode Cable.
191. This estimate includes Cat 5e cabling only.
192. This estimate includes an ESE Lightning Protection System.
193. This estimate includes a \$2.00/SF allowance for Temporary Light & Power. This estimate does not include any cost associated with bringing temporary electrical service to the job site.
194. This estimate includes 36 months of power consumption.
195. This estimate does not include a power monitoring and control system.
196. This estimate includes for a complete retail metering system as shown on Drawing E03.09.
197. This estimate includes a \$50,000 Allowance for the Specification Section 16072 Supports and Seismic Restraints.
198. This estimate includes an allowance of \$125,000 for the Short Circuit Coordination Study as identified in Specification Section 16055.
199. This estimate includes a \$100,000 allowance for installation of Heat Trace (Furnished by HVAC/Plumbing).
200. This estimate includes an allowance for HWATT (Furnished by Plumbing).

### Assumptions and Clarifications

- 201. This estimate includes the expansion joint requirement on Drawing E00.02 Note #14.
- 202. This estimate does not include any work associated with a snow melting system.
- 203. This estimate includes conduit embedded in and below the slab as allowed for on the drawings.
- 204. This estimate assumes any relocations or demolition in this proposal are with Sitework.
- 205. This estimate assumes any Excavation and Backfill for In slab Conduit work is with Foundations.
- 206. This estimate assumes EMT conduit for Fire Alarm Systems.
- 207. This estimate includes structured cabling raceway for security system and telecommunications/PA/ Information Systems.

### Site Work

- 208. This estimate utilizes the crushing of concrete for backfilling of the basement. This estimate assumes that the crushed concrete will meet the backfill specifications.
- 209. This estimate does not include the cost associated with the hiring Allied and draining and disposing of the existing hydrant fueling system.
- 210. This estimate has included only slurry fill for the existing piping that remains abandoned in place.
- 211. This estimate includes only the new utilities as shown on the documents.
- 212. This estimate assumes that that all existing utilities locations are accurate as shown on the drawings.
- 213. This estimate includes an allowance of \$400,000 for dewatering during the basement slab demolition
- 214. This estimate includes PCC pavement for aircraft parking only. All other pavement is asphalt.
- 215. This estimate does not include the departure roadway stub for Phase 2.
- 216. The estimate does not include the cost to supply hydrant fuel to be used to flush & test the system.
- 217. Permanent power is not available to the deicing area until the completion of the project. This estimate does not include any cost associated with supplying infrastructure or consumption for temporary power for the deicing area.
- 218. It is assumed that temporary water and electricity for the site utility work would be obtained from the existing utility services.
- 219. This estimate does not include asbestos abatement for the utilities removals except for the hydrant fuel line.

Assumptions and Clarifications

Demolition & Abatement

- 220. Lead paint removal is limited to the structural steel cut off point only.
- 221. The estimate includes an abatement allowance of \$500,000.00 for items not shown from the building.
- 222. This estimate does not include the removal of abandoned electric duct bank that are not identified on the drawings.
- 223. Mercury and PCB containing material removals are included for electric transformers only.
- 224. It is assumed that temporary water and electricity for the demolition work would be obtained from the existing utility services.

**JetBlue Terminal 5**

JFK Airport New York, New York

60% CD Estimate

April 20, 2005

**EXECUTIVE SUMMARY**

<b>Building System</b>	<b>Area</b>	<b>Unit Cost</b>	<b>Estimate Total</b>
	sf	\$/sf	\$
<b>TERMINAL / AIRSIDE</b>			
Terminal and Concourse Building	639,470	315.82	\$201,955,160
Fixed Bridges	18,635	523.18	\$9,749,400
Airside Civil	N/A		\$60,621,500
Equipment	658,105	69.75	\$45,905,000
<b>Total Terminal / Airside</b>	<b>658,105</b>	<b>483.56</b>	<b>\$318,231,060</b>

<b>LANDSIDE</b>			
Landside Civil	N/A		\$35,228,000
Air Train Connector	23,225	755.59	\$17,548,500
Flight Tubes	8,830	489.80	\$4,324,920
<b>Total Landside</b>			<b>\$57,101,420</b>

<b>TOTAL DIRECT COST</b>			<b>\$375,332,000</b>
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Design Contingency	3.0%		\$11,260,000
Construction Contingency	3.0%		\$11,598,000
Escalation	3.0%		\$11,946,000
<b>Subtotal</b>			<b>\$410,136,000</b>

General Liability	0.85%		\$3,486,000
General Conditions			\$39,135,000
Fee			\$9,000,000
Preconstruction Fee			Not Included

<b>TOTAL CONSTRUCTION COST</b>			<b>\$461,757,000</b>
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# Turner Aviation

## JetBlue Terminal 5

JFK Airport New York, New York

60% CD Estimate

April 20, 2005

### Estimate Summary

23,225 SF

690,160 SF

Building System	Air Train Connector	Estimate Total	\$/SF	% of Total
		\$		
Excavations And Foundations	1,278,000	\$23,437,000	\$33.23	6.9%
Structural Frame	5,551,500	\$32,323,500	\$40.14	8.3%
Roofing And Waterproofing	392,000	\$8,612,000	\$12.33	2.5%
Exterior Wall	4,491,000	\$24,072,000	\$29.36	6.1%
Interior Partitions & Finishes	534,000	\$28,207,000	\$41.49	8.6%
Vertical Transportation	2,010,000	\$5,117,000	\$4.66	1.0%
Specialities	0	\$2,870,000	\$4.30	0.9%
Equipment & Furnishings	0	\$3,376,000	\$5.06	1.0%
Baggage Handling System	0	\$29,915,000	\$44.85	9.3%
Special Construction	0	\$15,990,000	\$23.98	5.0%
Plumbing	178,000	\$6,625,000	\$9.67	2.0%
Fire Protection	130,000	\$6,066,000	\$8.90	1.8%
H.V.A.C.	1,680,000	\$35,183,000	\$50.23	10.4%
Electrical	1,304,000	\$50,778,000	\$74.18	15.3%
Demolition	0	\$12,240,000	\$16.16	3.3%
Site Work	0	\$46,579,000	\$31.58	6.5%
Site Utilities	0	\$25,522,000	\$25.90	5.4%
Fueling Systems	0	\$18,420,000	\$27.62	5.7%
<b>TOTAL DIRECT COST</b>	<b>17,548,500</b>	<b>\$375,332,500</b>	<b>\$483.64</b>	<b>100%</b>

#### Exclusions:

The foregoing estimated costs are direct trade costs and ex

Contingencies

General Conditions

General Requirements

Insurance & Bonds

CM Fee

**Turner** ≡ Aviation

JetBlue Terminal 5  
 JFK Airport New York, New York  
 60% CD Estimate  
 April 20, 2005

Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	<b>1 EXCAVATIONS AND FOUNDATIONS</b>						
	2						
	<b>3 Site Preparation</b>						
	4						
	5 Break up existing 12" concrete pavement				w/ Airside Civil		
	6 Load and dispose broken concrete				w/ Airside Civil		
	7						
	<b>8 Subtotal: Site Preparation</b>					\$0	
	9						
	<b>10 Earthwork</b>						
	11 Mobilize	1	LS	35,000.00	\$35,000		
	12 Excavation						
V	A87/A96C/ A91/E164	13	Pile caps				
V	A87/A91	14	Trenching for grade beams	11,498	CY	40.00	\$460,000
		15	Elevator/escalator pits	6,348	CY	40.00	\$254,000
		16	Sump pits	403	CY	40.00	\$16,000
		17	Underslab utilities	228	CY	40.00	\$9,000
V	A87/A96C/ A91/E164	18	General backfill	1,848	CY	40.00	\$74,000
		19	Dewatering (local)	12,912	CY	20.00	\$258,000
		20	Grading	1	LS	100,000.00	\$100,000
		21	Line & grade surveys	10,741	CY	15.00	\$161,000
S	EF1	22	Contaminated Soil Disposal Premiums	1	LS	30,000.00	\$30,000
		23	Teamster	9,507	Tons	26.50	\$252,000
		24	Master Mechanic	12	MO	15,014.00	\$180,000
		25	Maintenance Engineer	12	MO	23,286.00	\$279,000
		26		12	MO	17,618.00	\$211,000
	<b>27 Subtotal: Earthwork</b>						\$2,319,000
	28						
	<b>29 Piles</b>						
V	A87/A96C/ A91/E164	30	Production Monotube piles - 8"x14"	68,520	LF	44.00	\$3,015,000
V	A87/A96C/ A91/E164	31	Concrete for piles	2,057	CY	400.00	\$823,000
V	A87/A96C/ A91/E164	32	Reinforcing steel piles	90	TON	3,000.00	\$270,000
	33	Removal of underground obstructions					Included
	34	Removal of damaged piles due obstructions					Not Included
	35	Fusion bonded epoxy coating, upper 15'-0"					Included
	36	Load Test - Compression	6	EA	25,000.00		\$150,000
	37	Load Test - Tension	2	EA	10,000.00		\$20,000

**Turner**  Aviation

JetBlue Terminal 5  
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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	38 Load Test - Lateral	2	EA	10,000.00	\$20,000		
	39 Pile Dynamic Analysis (PDA)	40	EA	8,000.00	\$320,000		
	40						
	41 <b>Subtotal: Piles</b>					\$4,618,000	
	42						
	43 <b>Foundations</b>						
V	A87/A96C/ A91/E164	44 Concrete for pile caps	3,909	CY	400.00	\$1,564,000	
V	A87/A96C/ A91/E164	45 Reinforcing steel for pile caps	109	TON	3,000.00	\$327,000	
		46 Concrete slab & walls for elevator/escalator pits	10	EA	25,000.00	\$250,000	
		47 Concrete slab & walls for sump pits	8	EA	12,000.00	\$96,000	
		48 Reinforcing steel for pits				W/ABOVE	
V	A87/A91/E 164	49 Concrete for grade beams	1,521	CY	550.00	\$837,000	
V	A87/A91/E 164	50 Reinforcing steel for grade beams	136	TON	3,000.00	\$408,000	
		51 Concrete for 12" wall	41	CY	800.00	\$33,000	
		52 Reinforcing for 12" wall	3	TON	3,000.00	\$9,000	
		53 Crane/hoist pads				Not Required	
		54 Winter concreting				Not Included	
		55 Foundation drainage system				Not Included	
		56 Rigid insulation at perimeter				Not Required	
		57					
	58 <b>Subtotal: Foundations</b>					\$3,524,000	
	59						
	60 <b>Slab-On-Grade</b>						
V	EF179/A87	61 Concrete for 10" S.O.G.	5,667	CY	600.00	\$3,400,000	
V	EF179/A87	62 Reinforcing steel 10" S.O.G.	351	TON	3,000.00	\$1,053,000	
V	A91/E164	63 Concrete for 12" S.O.G.	2,987	CY	600.00	\$1,792,000	
V	A91/E164	64 Reinforcing steel 12" S.O.G.	191	TON	3,000.00	\$573,000	
		65 Concrete for 24" S.O.G.	502	CY	600.00	\$301,000	
		66 Reinforcing steel 24" S.O.G.	29	TON	3,000.00	\$87,000	
		67 Moisture barrier	287,852	SF	1.75	\$504,000	
S/V	EF2/EF17 9	Concrete curb and island				Not Required	
S/V	EF2/EF17 9	Reinforcing steel for curb and island				Not Required	
	68						
	69 <b>Subtotal: Slab-On-Grade</b>					\$7,710,000	

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
70							
71	Waterproofing						
72							
73	Waterproofing to foundation wall				Not Included		
74	Waterproofing to slab on grade				Not Included		
75	Waterproofing to elevator/escalator pits	10	EA	5,000.00	\$50,000		
76	Waterproofing to sump pits	8	EA	3,500.00	\$28,000		
77							
78	<b>Subtotal: Waterproofing</b>					\$78,000	
79							
80	<b>EXCAVATIONS AND FOUNDATIONS</b>						\$18,249,000
81							
82	<b>STRUCTURAL FRAME</b>						
83							
84	Concrete Fill on Deck						
85							
86	Concrete fill on metal deck at Arrivals Level - Assume 5 1/2" slab					w/ Foundations	
87	Reinforcing Steel					w/ Foundations	
S6/A87/A9	88 Light Weight Concrete fill on metal deck at Departures Level - Assume 5 1/2" slab						
SV	1	4,874	CY	520.00	\$2,534,000		
	89 Reinforcing Steel - Assume WWF	287,635	SF	0.85	\$244,000		
S	S9	4	TONS	4,000.00	\$15,000		
S	S9	5	TONS	4,000.00	\$18,000		
	90 Concrete column casing (tug lanes)	243	CY	1,100.00	\$267,000		
S	S5	1	ALLOW	100,000.00	\$100,000		
S	S5	60	CY	900.00	\$54,000		
S	S5	10	CY	900.00	\$9,000		
	93 <b>Subtotal: Concrete Fill on Deck</b>					\$3,241,000	
	94						
	95 <b>Structural Pre-Cast Concrete</b>						
	96						
	97 Structural Pre-Cast Elevator Shaft Walls - 8"	1,935	SF	30.00	\$58,000		
	98 Reinforcing Steel				Included		
	99 Structural Pre-Cast Elevator Shaft Walls - 10"	14,500	SF	30.00	\$435,000		
	100 Reinforcing Steel				Included		
	101						
	102 <b>Subtotal: Structural Pre-Cast Concrete</b>					\$493,000	
	103						
	104 <b>Metal Deck &amp; Studs</b>						
	105						
V	A87/A91	287,635	SF	3.50	\$1,007,000		
V	A87	314,815	SF	3.50	\$1,102,000		

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**Terminal/Concourse Building**

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
V	A97B	108					
	Metal roof deck - Departure Canopy 7 1/2" Longspan deck	11,050	SF	8.00	\$88,000		
V	A96C	109					
	Change Metal Roof Deck from 3" to 7 1/2"- Arrivals Canopy	12,440	SF	8.00	\$100,000		
S	A10						
	Paint to the Underside of the Canopy Metal Deck	23,490	SF	5.00	\$117,000		
	<b>110 Subtotal: Metal Deck &amp; Studs</b>					\$2,414,000	
	111						
	<b>112 Steel Superstructure</b>						
	113						
	<b>114 Arrivals Level</b>						
	115 Structural steel framing - girders				None Shown		
	116 Structural steel framing - columns	450	TNS	4,000.00	\$1,800,000		
	117 Structural steel framing connections (10%)	45	TNS	4,000.00	\$180,000		
	118						
	<b>119 Departures Level</b>						
V	A87/A213	120					
	Structural steel framing - girders	1,452	TNS	4,000.00	\$5,808,000		
	121 Structural steel framing - columns	290	TNS	4,000.00	\$1,160,000		
	122 Structural steel framing - ramp control tower	35	TNS	4,000.00	\$140,000		
	123 Structural steel framing - penthouse	10	TNS	4,000.00	\$40,000		
	124 Structural steel framing - roadway	25	TNS	4,000.00	\$100,000		
	125 Structural steel framing connections (10%)	178	TNS	4,000.00	\$712,000		
	126	4019					
	<b>127 Roof Level</b>						
V	A215/A110 B/A213	128					
	Structural steel framing - girders, tubes & angles	371	TNS	4,000.00	\$1,484,000		
	129 Structural steel framing - trusses	180	TNS	4,000.00	\$720,000		
	130 Structural steel framing - king post trusses	75	TNS	4,000.00	\$300,000		
	131 Structural steel framing - joists	250	TNS	4,000.00	\$1,000,000		
V	A110B	132					
	Structural steel framing - special joists	447	TNS	4,000.00	\$1,788,000		
	133 Structural steel framing - ramp control tower					Included	
	134 Structural steel framing - penthouse					Included	
	135 Structural steel framing connections (10%)	132	TNS	4,000.00	\$528,000		
	136						
	<b>137 Canopies</b>						
V	A96C	138					
	Structural steel framing - arrivals canopy	32	TNS	4,000.00	\$128,000		
V	A97B	139					
	Structural steel framing - departures canopy	47	TNS	4,000.00	\$188,000		
	140 Painting on structural steel - canopies	79	TNS	200.00	15,800		
V	A96C	141					
	Premium for AESS	199	TONS	300.00	\$60,000		
	142						
	<b>143 Subtotal: Steel Superstructure</b>					\$16,151,800	
	144						
	<b>145 Spray On Fireproofing</b>						
	146						
	147 Spray Fireproofing on structural steel - departures level	274,000	SFCA	2.40	\$658,000		

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
148	Spray Fireproofing on structural steel - roof level	160,200	SFCA	5.00	\$801,000		
149	Spray Fireproofing on structural steel - columns	79,000	SFCA	2.40	\$190,000		
150	Spray Fireproofing on canopy steel				Not Required		
151	Spray Fireproofing on metal roof deck	314,815	SFCA	1.00	\$315,000		
152							
153	<b>Subtotal: Spray On Fireproofing</b>					\$1,964,000	
154							
	<b>Expansion Joints</b>						
S	S7	General	1,700	LF	150.00	\$255,000	
S	S7	Fixed Bridge	120	LF	150.00	\$18,000	
	<b>Subtotal: Expansion Joints</b>					\$273,000	
155							
156	<b>STRUCTURAL FRAME</b>						\$24,536,800
157							
158	<b>ROOFING AND WATERPROOFING</b>						
159							
160	Rough Carpentry						
161							
162	Rough Carpentry per Total GSF of Roof	274,940	SF	1.50	\$412,000		
163							
164	<b>Subtotal: Rough Carpentry</b>					\$412,000	
165							
166	Roof						
167							
168	EPDM Roofing Assembly (Area Under the AHU's is Not Included)						
S/V	A10/A87/A 110B/A91	200,885	SF	13.00	\$2,612,000		
S/V	A10/A110B A92/A/A109	0			Not Required		
V	A	74,055	SF	34.00	\$2,518,000		
	171 Roof pavers - Rubber	21,960	SF	8.00	\$176,000		
	172 Flashing and lining @ Parapet	4,378	LF	40.00	\$175,000		
	173 Closed Cell Rod				Included		
	174 Flashing @ AHU's	7,200	LF	\$35.00	\$252,000		
	175 Flashing @ Roof Penetrations	77	EA	\$300.00	\$23,000		
	176 Flashing @ Roof Drains	71	EA	\$500.00	\$36,000		
	177 Roof Accessories - Other	1	LS	\$50,000.00	\$50,000		
	178 Gutter	95	LF	10.00	\$1,000		
V	A87	4,304	LF	75.00	\$323,000		
	179 Coping/Parapert Cap						

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	180 Expansion Joints	495	LF	150.00	\$74,000		
	181 Additional flashing around Retail Penetrations				Not Included		
	<b>182 Subtotal: Roof</b>					\$6,240,000	
	183						
	<b>184 Skylights</b>						
	185						
	186 Aluminum framed glass skylight				w/ Exterior Wall		
	187						
	<b>188 Subtotal: Skylights</b>					\$0	
	189						
	<b>190 Canopy</b>						
	191						
SV	A10/A97B	192	Departure - EPDM roofing, Gyp and insulation	11,050	SF	18.00	\$199,000
V	A97B	193	Departure Nose- Painted Aluminum Channel	1,300	SF	40.00	\$52,000
S	A10		Metal soffit with subframing	5,200	SF	45.00	\$234,000
S	A10		Grill @Soffit	2,640	SF	45.00	\$119,000
S	A11	194	Alluminum Panel @ Underside of Canopy - Type M-7				Not Required
		195	Gutters	690	LF	10.00	\$7,000
		196					
V	A96C	197	Arrival - EPDM Roofing, Drainage Mat, Waterproofing, & Gyp	12,440	SF	18.00	\$224,000
V	A97B	198	Arrival Nose - Painted Aluminum Channel	860	SF	40.00	\$34,000
		199	Alluminum Panel @ Underside of Canopy - Type M-7				Not Required
		200	Aluminum Panel in Arrival canopy	1,840	SF	50.00	\$92,000
		201	Gutters	430	LF	10.00	\$4,000
		202					
V	100	203	Canopy @ Aluminum Panel				Not Included
V	99	204	Sunscreen @ Windows South Side Only				Not Included
		205					
		<b>206 Subtotal: Canopy</b>				\$965,000	
		207					
		<b>208 Waterproofing</b>					
		209					
		210	Traffic Coating				Not Included
		211					
		<b>212 Subtotal: Waterproofing</b>				\$0	
		213					
		214					
		<b>215 ROOFING AND WATERPROOFING</b>				\$7,617,000	
		216					
		<b>217 EXTERIOR WALL</b>					
		218					
		219	Walls				

208,621 SFCA

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	220						
	221 <i>Apron Level- Arrivals</i>						
S/V	A13/A87 222	26,395	SF	26.00	\$686,000		
S	A13 223	13,168	SF	47.00	\$619,000		
S	A13 224				Included		
S	A13 225				Included		
S	A13 226	14,657	SF	55.00	\$806,000		
S	A13 227				Included		
S	A13 228				Included		
S	A13 229	3,032	SF	45.00	\$136,000		
S	A13 230				Included		
S	A13 231	3,032			Not Included		
	232	1,595	SF	85.00	\$136,000		
S	A13 233	1,463	SF	43.00	63,000		
	234 <i>Concourse Level- Departures</i>						
S/V	A13/A101/A87 235	58,348	SF	55.00	\$3,209,000		
S/V	A13/A101/A87 236				Included		
S/V	A13/A101/A87 237				Included		
S	A13 238	532	SF	65.00	\$35,000		
S	A13 239				Included		
S	A13 240				Included		
S/V	A13/A101/A109A 241				Not Included		
S/V	A13/A101/A109A 242				Not Included		
S/V	A13/A101/A109A 243				Not Included		
S/V	A13/A101/A109A 244	200	SF	60.00	\$12,000		
S/V	A13/A108B/A215/A110B 245	15,668	SF	55.00	\$862,000		
S/V	A13/A108B 246				Included		
S/V	A13/A108B 247				Included		
S/V	A13/A87 247	6,210	SF	55.00	\$342,000		

**Turner** ≡ Aviation

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
SV	A13/A87 248				Included		
SV	A13/A87 249				Included		
S	A13 250	M-7 Flat Aluminum panel (Interior)	1,603	SF	45.00	\$72,000	
S	A13 251	Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice/water shield				Included	
S	A13 252	Rigid insulation board; 2" thick				Not Included	
	253						
	254	<b>Subtotal: Walls</b>					\$6,978,000
	255						
	256	<b>Windows</b>					
	257	<i>Apron Level- Arrivals</i>					
	258	Aluminum Framed Storefront	3,169	SF	100.00	\$317,000	
	259	Alum. Storefront doors	20	EA	3,000.00	\$60,000	
	260	Strip Window	20	SF	100.00	\$2,000	
	261	<i>Concourse Level- Departures</i>					
	262	Aluminum Framed Storefront	9,384	SF	100.00	\$938,000	
	263	Alum. Storefront doors	21	EA	3,000.00	\$63,000	
A109/A21	264	Aluminum Framed Strip Window					
V	5/A110B		21,727	SF	100.00	\$2,173,000	
V	A108B	Aluminum Framed Curtain Wall	4,584	SF	110.00	\$504,000	
	266	Premium For Fritted Glass	3,566	SF	5.00	\$18,000	
	267						
	268	<b>Subtotal: Windows</b>					\$4,075,000
	269						
	270	<b>Exterior Doors and Vestibules</b>					
	271	<i>Apron Level- Arrivals</i>					
V	A111/A112	Change to Fabric Doors ILO Motorized Roll-Up Doors	6,590	SF	60.00	\$395,000	
	273	HM Doors	27	EA	1,000.00	\$27,000	
	274	Motorized Revolving Doors (14'-0" wide)	5	EA	175,000.00	\$875,000	
	275	Motorized Sliding Glass Door				Not Included	
	276	<i>Concourse Level- Departures</i>					
	277	Aluminum Frame Glass Doors	16	EA	3,000.00	\$48,000	
V	A216	Aluminum Frame Glass Doors Pair	2	EA	4,000.00	\$8,000	
	278	HM Doors	27	EA	1,000.00	\$27,000	
	279	Gate Doors	40	EA	1,200.00	\$48,000	
	280	Motorized Revolving Doors (14'-0" wide)	9	EA	175,000.00	\$1,575,000	
	281	Motorized Sliding Glass Door				Not Included	
SV	A14/A216	Motorized Glass Sliding Doors				Not Included	
	282						
	283	<b>Subtotal: Exterior Doors and Vestibules</b>					\$3,003,000
	284						
	285	<i>Misc. Iron</i>					

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	A13	286	Misc. Iron Supports	208,621	SFCA	4.00	\$834,000
		287	Railings at departure level	80	LF	150.00	\$12,000
		288					
		289	<b>Subtotal: Misc. Iron</b>				\$846,000
		290					
		291	<b>Sealants</b>				
		292	Exterior wall sealants	208,621	SFCA	0.75	\$156,000
		293					
		294	<b>Subtotal: Sealants</b>				\$156,000
		295					
		296	<b>EXTERIOR WALL</b>				\$15,058,000
		297					
		298	<b>INTERIOR PARTITIONS &amp; FINISHES</b>				
		299					
		300	<i>Arrival/Apron Level</i>				
S	A16	301	Cover Columns	6,930	SF	10.00	\$69,000
S	A108B/A87	302	Metal Stud and GWB partition				
V	A91			83,863	SF	12.00	\$1,006,000
V	A87/A91	303	Metal stud and GWB partition; 1HR Rated	5,952	SF	14.00	\$83,000
V	A87	304	Metal stud and GWB partition; 2HR Rated	88,428	SF	18.00	\$1,592,000
V	A87/A91	305	Shaftwall	12,196	SF	20.00	\$244,000
S	A16	306	Panelite system-st. steel trims bars at top&bottom	4,000	SF	50.00	\$200,000
		307	Soffit	4,632	SF	12.00	\$56,000
S/V	A16/A117	308	Aluminium Column Cover - 2 Piece	31	EA	10,000.00	\$310,000
S	A16		Columns - Exposed	149	EA		
		309	<b>Total</b>	<b>212,309</b>			
		310					
		311	<i>Departures/Boarding Level</i>				
S	A16		Cover Columns	2,952	SF	10.00	\$30,000
		312	GWB wall	3,654	SF	10.00	\$37,000
		313	Metal Stud and GWB partition	47,673	SF	12.00	\$572,000
		314	Metal stud and GWB partition; 1HR Rated	1,404	SF	14.00	\$20,000
		315	Metal stud and GWB partition; 2HR Rated	38,532	SF	18.00	\$694,000
		316	Shaftwall	14,409	SF	20.00	\$288,000
S	A16	317	Panelite system-st. steel trims bars at top&bottom	4,802	SF	50.00	\$240,000
		318	Soffit	21,231	SF	12.00	\$255,000
S/V	A16/A117	319	Aluminium Column Cover	68	EA	10,000.00	\$680,000
S	A16	320	Columns - Exposed	74	EA		
S	A16		Demising Partitions @ Retail Openings	5,335	SF	5.00	\$27,000
		321	<b>Total</b>	<b>135,102</b>			
		322	Safety barriers and barricades	1	LS	150,000.00	\$150,000

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	323 OSHA protection	639,470	SF	0.50	\$320,000		
	324 Protection of finished work	639,470	SF	0.50	\$320,000		
	325 Temporary SIDA escorts	1	LS	250,000.00	\$250,000		
	326 DELETED						
	327 Final cleaning	639,470	SF	0.50	\$320,000		
	328						
	329 Subtotal: Partitions					\$7,763,000	
	330						
	331 Interior Stairs						
	332						
	333 Monumental Stairs						
	334 Stair #2						
	335 Metal pan and concrete fill stair	112	LFR	150.00	\$17,000		
	336 Glass Handrail	80	LF	600.00	\$48,000		
	337 Terrazzo Treads/Landings	266	SF	25.00	\$7,000		
	338						
	339 Stair #4						
	340 Metal pan and concrete fill stair	264	LFR	150.00	\$40,000		
	341 Glass Handrail	106	LF	600.00	\$64,000		
	342 Terrazzo Treads/Landings	315	SF	25.00	\$8,000		
	343						
	344 Stair #6						
	345 Metal pan and concrete fill stair	220	LFR	150.00	\$33,000		
	346 Glass Handrail	240	LF	600.00	\$144,000		
	347 Terrazzo Treads/Landings	327	SF	25.00	\$8,000		
	348						
	349 Metal pan and concrete fill stair	640	LFR	150.00	\$96,000		
	350 Steel pipe handrails - 1-1/2" diameter (Stair #3)	270	LF	100.00	\$27,000		
	351 Steel pipe balustrades - 1-1/2" diameter (Stair #3)	1,425	LF	150.00	\$214,000		
	352						
	353 Subtotal: Interior Stairs					\$706,000	
	354						
	355 Doors, Frames & Hardware						
	356						
	357 Arrival/Apron Level						
V	A111						
	358 Single HM door and frame	173	EA	1,800.00	\$311,000		
	359 Pair HM doors and frame	7	EA	3,800.00	\$27,000		
	360 Single HM door and frame; 1hr fire-rated	11	EA	2,600.00	\$29,000		
	361 Pair HM doors and frame; 1hr fire-rated	1	EA	5,000.00	\$5,000		
	362 Single HM door and frame; 2hr fire-rated	76	EA	2,600.00	\$198,000		
	363 Pair HM doors and frame; 2hr fire-rated	13	EA	5,000.00	\$65,000		
	364 Door Closet	6	EA	1,000.00	\$6,000		

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	365 Pair Door Closet	22	EA	1,200.00	\$26,000		
	366						
	367 Departures/Boarding Level						
	368 Single HM door and frame	95	EA	1,800.00	\$171,000		
	369 Pair HM doors and frame	6	EA	3,800.00	\$23,000		
	370 Single HM door and frame; 1hr fire-rated	4	EA	2,600.00	\$10,000		
	371 Single HM door and frame; 2hr fire-rated	29	EA	2,600.00	\$75,000		
	372 Pair HM doors and frame; 2hr fire-rated	11	EA	5,000.00	\$55,000		
	373 Pair Door Closet	2	EA	1,200.00	\$2,000		
S	A16						
	374 DELETED						
	375						
	376 Subtotal: Doors, Frames & Hardware					\$1,003,000	
	377						
	378 Floor Finishes						
	379						
	380 Arrival/Apron Level						
V	A122/A87						
	A87	159,048	SF	1.00	\$159,000		
	381 Concrete sealer	16,135	SF	3.50	\$56,000		
	382 Vinyl tile						
S/V	A17/A118/ A122/A87	6,782	SY	21.00	\$142,000		
	383 Carpet Tile In BOH Spaces - Jet Blue Standard						
S/V	A17/A122/ A87	16,727	SF	18.00	\$301,000		
	384 Glazed ceramic tile						
S/V	A17/A113 C	11,852	SF	10.00	\$119,000		
	385 Floor Finish Allowance; T-50						
S/V	A17/A113 C/A87	53,868	SF	10.00	\$539,000		
	386 Floor Finish Allowance; T-51						
S/V	A17/A113 C					Deleted	
S	A17	36,775	LF	1.50	\$55,000		
	388 Vinyl base	994	LF	15.00	\$15,000		
	389 Ceramic tile base	3,199	LF	18.00	\$58,000		
S	A17	1,522	LF	35.00	\$53,000		
	391 Stainless steel base						
	392						
	393						
	394 Departures/Boarding Level						
	395 Concrete sealer	12,435	SF	1.00	\$12,000		
	396 Vinyl tile	3,859	SF	3.50	\$14,000		
S	A17	7,427	SY	25.00	\$186,000		
	397 Carpet						
S	A17	13,408	SF	18.00	\$241,000		
	398 Glazed ceramic tile	15,057	SF	15.00	\$226,000		
	399 Granite tile						
S/V	A17/A113 C	92,368	SF	10.00	\$924,000		
	400 Floor Finish Allowance; T-51						

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Building Area: 639,470 GSF

Rank Building System		Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S/V	A17/A113 C	401	Floor Finish Allowance; T-52	20,682	SF	10.00	\$207,000
S/V	A17/A113 C	402	Floor Finish Allowance; T-55	4,722	SF	10.00	\$47,000
		403	Vinyl base	6,120	LF	1.50	\$9,000
		404	Ceramic tile cove	3,440	LF	18.00	\$62,000
S	A17	405	Stainless steel base	6,931	LF	35.00	\$243,000
		406					
		407					
		408	<b>Subtotal: Floor Finishes</b>				\$3,668,000
		409					
		410	<b>Wall Finishes</b>				
		411					
		412	<i>Arrival/Apron Level</i>				
S/V	A18/A87	413	Paint	323,743	SF	1.20	\$388,000
S	A18	414	Steel wall plate	1,507	SF	60.00	\$90,000
		415	Ceramic tile				
S/V	A18/A115B				SF	18.00	\$0
V	A115B		Epoxy Paint of BOH Restrooms	25,592	SF	1.50	\$38,000
		416	Total	325,250			\$0
		417					
		418	<i>Departures/Boarding Level</i>				
S	A18	419	Paint	274,365	SF	1.20	\$329,000
S	A18	420	Plastic laminate wall panels; particle board core	5,591	SF	50.00	\$280,000
		421	Ceramic tile				
S/V	A18/A115B			25,636	SF	18.00	\$461,000
V	A115B		Epoxy Paint of BOH Restrooms	5,324	SF	1.50	\$8,000
		422	Aluminium plate	2822	SF	34.00	\$96,000
		423	Aluminium panel - painted	1587	SF	40.00	\$63,000
S	A18	424	Steel wall plate	8726	SF	60.00	\$524,000
		425	Total	324,051	SF		
		426					
		427					
		428					
		429	<b>Subtotal: Wall Finishes</b>				\$2,277,000
		430					
		431	<b>Ceiling Finishes</b>				
		432					
		433	<i>Arrival/Apron Level</i>				
S/V	A19/A116/A87	434	Acoustical panel ceiling, 2'x2'	87,686	SF	9.00	\$789,000
S	A19/A87	435	GWB; paint finish; concealed suspension	99,611	SF	10.00	\$996,000

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	A19	436	GWB bulkheads and soffits; paint finish	17,744	SF	30.00	\$532,000
S/V	A19/A116	437	Simplex Designer Ceiling System, 3'x8'				Not Included
S/V	A19/A116	438	Simplex Designer Ceiling System, 4'x8'				Not Included
S/V	A19/A116	439	Simplex Generation 2000, 2'x8'				Not Included
S	A19	440	No ceiling	136,508	SF		
		441	Total	341,549			
		442					
		443	Departures/Boarding Level				
S/V	A19/A116	444	Acoustical panel ceiling, 2'x2'	85,476	SF	9.00	\$769,000
S/V	A19/A87	445	Acoustical panel ceiling, 4'x4'	37,058	SF	13.00	\$482,000
S	A19	446	GWB; paint finish; concealed suspension	93,683	SF	10.00	\$937,000
S	A19	447	GWB bulkheads and soffits; paint finish; concealed suspension (measured flat)	7,242	SF	30.00	\$217,000
S/V	A19/A116	448	Simplex Designer Ceiling System, 2'x6'				Not Included
S/V	A19/A116		Simplex Generation 2000, 2'x8'				Not Included
S/V	A19/A116		Simplex Designer Ceiling System, 4'x8'				Not Included
S/V	A19/A116		Simplex Designer Ceiling System				Not Included
S	A19		Gordon 12" Baffles 12"	17,537	SF	31.00	\$544,000
S	A19	449	No ceiling	57,690	SF		
		450	Total	298,686			
		451					
		452	Subtotal: Ceiling Finishes				\$5,266,000
		453					
		454	Interior Glass & Glazing				
		455					
		456	Restroom mirrors	2,760	SF	20.00	\$55,000
		457	Sundry glass and glazing	620,977	SF	1.00	\$621,000
S	A16	458	Glass partition	1,454	SF	70.00	\$102,000
S	A16	459	Pair glass door	9	EA	5,000.00	\$45,000
S	A16	460	Sliding door - double door	2	EA	10,000.00	\$20,000
		461	Subtotal: Interior Glass & Glazing				\$843,000
		462					
		463	Millwork				
		464					
S	A20	465	Hold room customer service counter	7	EA	70,000.00	\$490,000
S	A20	466	Check-in counter	52	EA	35,000.00	\$1,820,000
S	A20	467	Check-in counter - sky cap	12	EA	25,000.00	\$300,000
S	A20	468	Vanity	781	LF	360.00	\$281,000
S	A20	469	Shelf - inbound baggage	21	LF,Allow	120.00	\$3,000
S	A20		Counter & upper cabinet - office	232	LF,Allow	480.00	\$111,000
S	A20		Counter & upper cabinet - waiting room	19	LF,Allow	480.00	\$9,000
S	A20	470	Counter - check-in	94	LF,Allow	120.00	\$11,000

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Building Area: 639,470 GSF

Rank Building System		Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	A20	471	Shelf - restrooms	179 LF,Allow	120.00	\$21,000	
S	A20	472	Shelf & upper cabinet - Copy/Supply	137 LF,Allow	480.00	\$66,000	
S	A20	473	Pantries - break/ kitchen	155 LF,Allow	780.00	\$121,000	
S	A20	474	Closet	148 LF,Allow	120.00	\$18,000	
S	A20	475	Taxi Stand	1 EA	50,000.00	\$50,000	
			<b>476 Subtotal: Interior Millwork</b>				\$3,301,000
			477				
			<b>478 Miscellaneous Metals</b>				
			479				
			480 Miscellaneous Metals	639,470 SF	3.00	\$1,918,000	
			481				
			<b>482 Subtotal: Miscellaneous Metals</b>				\$1,918,000
			483				
			<b>484 INTERIOR PARTITIONS &amp; FINISHES</b>				\$26,745,000
			485				
			<b>486 VERTICAL TRANSPORTATION</b>				
			487				
			<b>488 Elevators</b>				
			489				
S	A21	490	2 stop, 3500# passenger, 16' travel (EL2,3)	2 EA	200,000.00	\$400,000	
S	A21	491	2 stop, 2500# passenger, 18'10" travel (EL5)	1 EA	200,000.00	\$200,000	
S	A21	492	4 stop, 4500# passenger, 55.5' travel (EL6)	1 EA	310,000.00	\$310,000	
S	A21	493	3 stop, 4500# passenger, 44.0' travel (EL7)	1 EA	290,000.00	\$290,000	
			494 Cab finish allowance - public elevator	5 EA	30,000.00	\$150,000	
S	A21	495	4 stop, 4500# freight, 45'10" travel (EL1)	1 EA	280,000.00	\$280,000	
S	A21	496	2 stop, 4500# freight, 18'10" travel (EL4)	1 EA	200,000.00	\$200,000	
			497 Cab finish allowance - freight elevator	2 EA	25,000.00	\$50,000	
			498 Security controls	4 EA	5,000.00	\$20,000	
S	A22	499	3 stop, 4500# passenger, 44.0' travel (EL9)	1 EA	215,000.00	\$215,000	
S	A22	500	Cab finish allowance - public elevator	1 EA	30,000.00	\$30,000	
			501				
			<b>502 Subtotal: Elevators</b>				\$2,145,000
			503				
			<b>504 Escalators and Moving Walks</b>				
			505				
			506 Escalator, glass balustrade, 40" wide, 16' vertical travel (ESC1,2)	2 EA	150,000.00	\$300,000	
			507 Escalator, glass balustrade, 40" wide, 19' vertical travel (ESC3,4)	2 EA	156,000.00	\$312,000	
			508				
			<b>509 Subtotal: Escalators</b>				\$612,000
			510				
			<b>511 VERTICAL TRANSPORTATION</b>				\$2,757,000
			512				

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	513 SPECIALITIES						
	514						
	515 Specialties						
	516						
V	A119/A122 /A91	108	EA	1,500.00	\$162,000		
V	A119	32	EA	900.00	\$29,000		
S/V	A23B/A91	48	EA	400.00	\$19,000		
V	A/91	140	EA	2,500.00	\$350,000		
	520 Wall Corner Guard	1	LS	250,000.00	\$250,000		
	521 Wall Covering (NON SHOWN)	1	LS	50,000.00	\$50,000		
V	A122/A87	1,414	EA	250.00	\$354,000		
	523 Locker Benches	1	Allow	15,000.00	\$15,000		
	524 Fire Extinguishers	30	Allow	800.00	\$24,000		
	525 Fire Hose Cabinets	41	Allow	300.00	\$12,000		
S	A23C					Not Included	
S	A23C					Not Included	
	526 Wire Mesh Partitions					W/HVAC	
	527 Wire Mesh Lockers					By Owner	
	528 Louvers						
S	E50	2	EA	1,000.00	\$2,000		
	529 Telephone Specialities						
	Ventless Dryers						
	530 Subtotal: Specialties					\$1,267,000	
	531						
	532 Signage						
	533						
	534 Signage - Code Signage	639,470	GSF	0.15	\$96,000		
	535 Building - Directional & Wayfinding	1	LS	1,500,000.00	\$1,500,000		
	536 Two Line Box-12' - Directional Ceiling MTD	17	EA		Included		
	537 Two Line Box- 8' - Directional Ceiling MTD	1	EA		Included		
	538 One Line Box - 6' - Directional Ceiling MTD	2	EA		Included		
	539 Two Line Box- 8' - Directional Ceiling MTD w/ Power	9	EA		Included		
	540 One Line Box - 8' - Directional Ceiling MTD w/ Power	1	EA		Included		
	541 Arrivals Curbside Panel - Directional Ceiling MTD w/ Power	5	EA		Included		
	542 Gate Area Blade - Directional Soffit w/ Power & Data	25	EA		Included		
	543 Jet Bridge Panel - Directional Wall MTD w/ Power & Data	25	EA		Included		
	544 Carousel BID -Informational Wall/Carousel w/ Power & Data	6	EA		Included		
	545 Wall FID - Informational Wall MTD w/ Power & Data	8	EA		Included		
	546 Wall BID - Informational Wall MTD w/ Power & Data	4	EA		Included		
	547 Terminal Map/Directory Panel - Informational Wall MTD w/ Power & Data	10	EA		Included		
	548 Vinyl Graphic - Infomational Wall MTD	13	EA		Included		
	549 Room Sign - Informational Wall MTD	400	EA		Included		
	550 Room Sign ADA Symbol - Informational Wall MTD	75	EA		Included		
	551 Stairwall Panel - Informational Wall MTD	10	EA		Included		

**Turner** ≡ Aviation

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
552	Misc Messages Panel - Informational Wall MTD	50	EA		Included		
553	Airport Services Blade - Informational Soffit/Column MTD	20	EA		Included		
554	Regulatory Interior Panel - Regulatory Wall MTD	195	EA		Included		
555	Regulatory Exterior Panel - Regulatory Wall MTD	320	EA		Included		
556	Regulatory Stanchions - Regulatory Floor	10	EA		Included		
557	Regulatory Blade - Regulatory Soffit/Column MTD	50	EA		Included		
558	Advertising Diorama - Advertising Wall MTD w/ Power & Data	25	EA		Included		
559	Advertising Vinyl Graphic - Advertising Wall MTD	25	EA		Included		
560	Retail Blade - Advertising Wall MTD w/ Power	15	EA		Included		
561	Retail Cabinet - Advertising Wall MTD w/ Power	15	EA		Included		
562	Misc Panel - Advertising Wall MTD	100	EA		Included		
563	Skywalk Graphic - Advertising Wall/Glass MTD	1	EA		Included		
564	Jet Blue Tower Graphic - Advertising Wall/Glass MTD	1	EA		Included		
565	Marketplace Feature - Informational Ceiling w/ Power	1	EA		Included		
566							
567	<b>Subtotal: Signage</b>					\$1,596,000	
568							
569							
570	<b>SPECIALITIES</b>						\$2,863,000
571							
572	<b>EQUIPMENT &amp; FURNISHINGS</b>						
573							
574	<b>Miscellaneous Equipment</b>						
575							
576	Fall Protection Barrier, cable & Stanchions	3,460	LF	15.00	\$52,000		
577	Projection Screen ( 60" h. * 80" w.)				\$0		
578	- Conference Room	10	EA	1,500.00	\$15,000		
579	- Training/Briefing Room	10	EA	1,500.00	\$15,000		
580	Loading Dock Equipment						
581	- Dock Bumper	6	EA	1,000.00	\$6,000		
582	- Recessed Dock Leveler	6	EA	8,000.00	\$48,000		
583	- Truck Restraint	6	EA	2,500.00	\$15,000		
584	Trash Compactors	2	EA	25,000.00	\$50,000		
585	Pantry Appliance (NON SHOWN)	3	Allow	5,000.00	\$15,000		
V A120 586	Floor Mats and Frames				Not Included		
587	Building Accessories	639,470	GSF	0.25	\$160,000		
588							
589	<b>Subtotal: Miscellaneous Equipment</b>					\$376,000	
590							
591	<b>Seating</b>						
592							
593	<b>Seatings</b>						

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	A23A 594 - Chairs (o)	208	EA		w/ FF&E		
S	A23A 595 - Tables (o)	52	EA		w/ FF&E		
S	A23A 596 - Chairs (o)	215	EA		w/ FF&E		
S	A23A 597 - Tables (o)	76	EA		w/ FF&E		
S	A23A 598 - Tables (long o)	5	EA		w/ FF&E		
S	A23A 599 - Airport Seats	2,168	EA		w/ FF&E		
S	A23A 600 - Bench Seats	40	EA		w/ FF&E		
	601						
	602 Subtotal: Seating					\$0	
	603						
	604 TSA Security Equipment						
	605						
	606 See "Equipment" section						
	607						
	608 Subtotal: TSA Security Equipment					\$0	
	609						
	610 Furnishings						
	611						
S	A23A 612 FF & E	1	ALLOW	3,000,000.00	\$3,000,000		
	613 Systems Furniture				Excluded		
	614						
	615 Subtotal: Furnishings					\$3,000,000	
	616						
	617 Artwork						
	618						
	619 Excluded						
	620						
	621 Subtotal: Artwork					\$0	
	622						
	623 EQUIPMENT & FURNISHINGS						\$3,376,000
	624						
	625 BAGGAGE HANDLING SYSTEM						
	626						
	627 See "Equipment" section						
	628						
	629 BAGGAGE HANDLING SYSTEM						\$0
	630						
	631 SPECIAL CONSTRUCTION						
	632						
	633 Passenger Boarding bridges						
	634						
	635 See "Equipment" section						

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
636							
637	Subtotal: Passenger boarding bridges					\$0	
638							
639	<b>SPECIAL CONSTRUCTION</b>						\$0
640							
641	<b>PLUMBING</b>						
642							
643							
644	Fixtures and Specialties (Based on Plumbing Dwgs)						
P37/A91/A 645							
S/V 122	Water Closet (Battery Powered Automatic Flush Valves)	200	EA	\$1,181.00	236,000		
P37/A91/A 646							
S/V 122	Lavatory (Battery Powered Automatic Faucets)	209	EA	\$1,381.00	289,000		
S P37 647	Electronic Flush Valves and Faucets				Included		
P37/A91/A 648							
S 122	Tempering Valves	36	EA	\$750.00	27,000		
P37/A91/A 649							
S 122	Urinals (Battery Powered Automatic Flushvalves)	67	EA	\$1,731.00	116,000		
	650 Misc. Sinks (Pantry, Break Rooms, etc.)	15	EA	\$1,500.00	\$23,000		
	651 Electric Water Coolers	47	EA	\$1,500.00	\$71,000		
V A91	652 Service Sinks	23	EA	\$1,500.00	\$35,000		
V A122	653 Shower Base w/ enclosure	18	EA	\$2,500.00	\$45,000		
V A122	654 Shower Head & Valve Body	18	EA	\$750.00	\$14,000		
V A122	655 Pressure Balancing Mixing Valves	18	EA	\$500.00	\$9,000		
	656 Emergency Eye Wash/Showers (Freeze-Proof)	7	EA	\$1,900.00	\$13,000		
	657 Emergency Eye Wash/Showers (interior)	3	EA	\$1,400.00	\$4,000		
	658 Installation of Toilet Accessories	1	LS	\$72,000.00	\$72,000		
659							
660							
661	Subtotal: Fixtures & Specialties					\$954,000	
662							
663	<b>Domestic Water Distribution</b>						
664	Domestic Water System Equipment						
665	Water Meters (6")	2	EA	\$20,000.00	\$40,000		
666	Backflow Preventer For Domestic Service (6")	2	EA	\$20,000.00	\$40,000		
667	Backflow Preventer For Fire Standpipe Service (6")	3	EA	\$20,000.00	\$60,000		
668	Double Check Detector Assembly For Sprinkler Service (8")	2	EA	\$25,000.00	\$50,000		
669	Domestic Water Suction Tank				Not Included		
670	Misc. Valves & Specialties (Curb valve, etc.)	1	LS	\$100,000.00	\$100,000		
671	Water Treatment	1	LS	\$25,000.00	\$25,000		
672	Domestic Hot Water Heater Flue Piping				w/ HVAC		
673	Domestic Cold Water System						

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	P45	674	Domestic CW Booster Pumps [DWPP-1&2] (w/ Hydro Tank - Duplex, 15 HP)	2	EA	\$25,000.00	50,000
		675	Back Flow Preventors for HVAC Cold Water	6	EA	\$1,000.00	\$6,000
V	P43	676	Hose Bibbs (Interior) (1 per Toilet Room, MER & Work Room w/ Floor Drains)				Not Required
		677	Hose Bibbs (Exterior Non-Freeze on Roof)	9	EA	\$450.00	\$4,000
S	P38	678	Wall Hydrants (Exterior Non-Freeze) (1/300' of Perimeter)	5	EA	\$500.00	\$3,000
		679	Misc. Valves & Specialties	1	LS	\$100,000.00	\$100,000
		680	Domestic Hot Water System				
		681	Domestic Water Heaters [GWH-1 thru 6] (gas fired, 1050 GPH)	6	EA	\$30,000.00	\$180,000
		682	Domestic Hot Water Circulator Pumps [CP-1 thru 6] (Simplex, In-line, 3/4 HP)	6	EA	\$5,000.00	\$30,000
		683	Domestic Water Heaters [EWH-1] (Instantaneous, Electric, 20 GPM)	10	EA	\$10,000.00	\$100,000
		684	Domestic Water Heaters [EWH-2] (Instantaneous, Electric, 1 GPM)	2	EA	\$4,000.00	\$8,000
		685	Misc. Valves & Specialties	1	LS	\$100,000.00	\$100,000
		686	Water Heater Boosters/Local Heaters @ Concession Areas				Not Included
		687	Domestic Water Piping (Hot & Cold)				
S	P45		Potable Water Cabinet				with Equipment Estimate
S	P45		Domestic Water Piping, 1'	2,600	LF	\$28.00	73,000
S	P45		Piping Insulation	2,600	LF	\$10.00	26,000
S	P45	688	6" Domestic Water Piping	1,190	LF	\$90.00	107,000
S	P45	689	4" Domestic Water Piping	0	LF	\$85.00	0
		690	3" Domestic Water Piping	6,500	LF	\$60.00	\$390,000
V	A122	691	2" - 2 1/2" Domestic Water Piping	950	LF	\$40.00	\$38,000
V	A122	692	Domestic Water Piping, 1-1/2" and Under	6,200	LF	\$32.00	\$198,000
V	A122	693	Piping Insulation	14,710	LF	\$15.00	\$221,000
		694	Expansion Fittings	1	Allow	\$12,000.00	\$12,000
V	A122	695	Water Hammer Arrestor (1/20 fixtures)	28	EA	\$400.00	\$11,000
		696	HWAT	1	Allow	\$15,000.00	\$15,000
S	P45	697	Misc. Valves & Specialties	1	LS	\$125,000.00	125,000
		698					
		699	Non-Potable Water System				Not included
		700					
		701					
		702	Subtotal: Domestic Water Distribution				\$2,112,000
		703					
		704	Sanitary Drainage				
		705	Sanitary Drainage Equipment				
		706	Duplex Sewage Ejectors [SEP-1 thru 7]	7	EA	\$25,000.00	\$175,000
		707	House Traps (4")	32	EA	\$1,500.00	\$48,000
V	P152	708	Floor Drains	52	EA	\$575.00	\$30,000
S	P39/P152	709	Deep Seal Floor Drains Trap Premium	52	EA	\$35.00	2,000
S	P40	710	Elevator Pit Sump Pump				Not Included
S	P40	711	Escalator Sump Pumps				Not Included
		712	Indirect Drains	0	EA	\$900.00	\$0
		713	Capped Outlets for Retail & Kitchen	22	EA	\$1,500.00	\$33,000

**Turner** Aviation

JetBlue Terminal 5  
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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	P42	714	Misc. Valves & Specialties	1	LS	\$25,000.00	\$25,000
		715	Central Grease Interceptor (cast iron, direct bury -50 GPM)	5	EA	\$10,000.00	\$50,000
		716	Solid/Sand Interceptors				Not Included
		717	Sanitary Vent & Drainage Piping				
		718					
S/V	P219/P152		Below ground - 2" - 4" (Add service concession areas - Arrivals)	4,200	LF	\$40.00	\$168,000
V	P152	719	Below ground - 5" - 6"	375	LF	\$90.00	\$34,000
		720					
S/V	P219/A122		Aboveground - 1 1/2" - 4" (Add service concession areas - Arrivals)	17,590	LF	\$35.00	\$616,000
		721	Aboveground - 6"	1,200	LF	\$90.00	\$108,000
		722	Ejector Discharge & Vent (Galv)	350	LF	\$75.00	\$26,000
S	P219	723	Cleanouts	1	Allow	\$60,000.00	\$60,000
S	P219		Add to service concession Areas Arrivals - Cleanouts	10	EA	\$650.00	\$7,000
		724	Fresh Air Inlets	32	EA	\$500.00	\$16,000
		725					
		726	<b>Subtotal: Sanitary Drainage</b>				\$1,398,000
		727					
		728	<b>Storm Drainage</b>				
		729	Storm Drainage Equipment				
		730	Roof Drains (6" - 8")	68	EA	\$750.00	\$51,000
		731	Area Drains (4")	13	EA	\$700.00	\$9,000
S	P41	732	Oil-Water Separator for Loading Dock Drainage (200 GPM)				w/ Landside Estimate
S	P41	733	Loading Dock Area Drains				w/ Landside Estimate
S	P41	734	Trench Drain at Loading Dock				w/ Landside Estimate
		735	Overflow Drains				Not Included
		736	Syphonic Roof Drain System				Not Included
		737	Storm Drainage Piping				
		738	Below ground - 4" - 6"	1,300	LF	\$60.00	\$78,000
		739	Below ground - 8" - 12"	2,810	LF	\$85.00	\$239,000
		740	Aboveground - 4"	230	LF	\$70.00	\$16,000
		741	Aboveground - 6"	3,730	LF	\$90.00	\$336,000
		742	Aboveground - 8"	2,720	LF	\$150.00	\$408,000
		743	Insulation for Horizontal Piping	100	LF	\$24.00	\$2,000
		744	Expansion Joints	1	LS	\$10,000.00	\$10,000
		745	Cleanouts	1	LS	\$60,000.00	\$60,000
		746	Overflow Drainage Piping				Not Included
		747	Stainless Steel Piping				Not Included
		748					
		749	<b>Subtotal: Storm Drainage</b>				\$1,209,000
		750					
		751	<b>Natural Gas Piping</b>				
		752	Duplex Gas Meters - XXX CFH (Furnish)				By Con Ed
		753	Duplex Gas Meters - Firm (Install) & Headers	1	EA	\$10,000.00	\$10,000

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	754 Gas Regulators	1	LS	\$25,000.00	\$25,000		
	755 Gas Booster System				Not Included		
	756 Natural Gas Piping (3"-4"- HW Heaters, Infrared Heaters & Concession Areas)	4,400	LF	\$70.00	\$308,000		
S	P44	757 Gas Valved Outlets for Concession Areas	14	EA	\$1,500.00	\$21,000	
	758 Gas Valved Outlets for Infrared Heaters	31	EA	\$1,500.00	\$47,000		
	759 Gas Valved Outlets for Hot Water Heaters	6	EA	\$1,500.00	\$9,000		
	760 Misc. Valves & Specialties	1	LS	\$50,000.00	\$50,000		
	761 X-Ray Testing	1	LS	\$15,000.00	\$15,000		
	762						
	763 Subtotal: Natural Gas Piping					\$485,000	
	764						
	765 Equipment Hook-ups						
	766 Refrigerator/Dishwasher/Ice Maker Rough-ins & Connections (At Pantry, Break R)	1	ALW	\$25,000.00	\$25,000		
	767 Washer/Gas Dryer Rough-ins & Connections				Not Included		
	768						
	769 Subtotal: Equipment Hook-ups					\$25,000	
	770						
	771 Site Utilities (up to 5' outside of building)						
	772 Fire Service Lines To Building				w/Site Utilities		
	773 Domestic Water Lines To Building				w/Site Utilities		
	774 Sanitary Mains To Building				w/Site Utilities		
	775 Gas Lines To Building				w/Site Utilities		
	776 Storm Lines To Building				w/Site Utilities		
	777						
	778 Subtotal: Site Utilities					\$0	
	779						
	780 Food Service Fit-Out						
	781 Food Service Fit-Out				w/ Concession Areas Fit-Out Work		
	782 Hot Water Heater				w/ Concession Areas Fit-Out Work		
S	P42	783 Local Grease Interceptor (50 GPM)				Not Required	
	784 Floor Drains				w/ Concession Areas Fit-Out Work		
	785 Equipment Hook-ups				w/ Concession Areas Fit-Out Work		
	786 Plumbing Rough-ins & Connections				w/ Concession Areas Fit-Out Work		
	787						
	788 Subtotal: Food Service Fit-Out					\$0	
	789						
	790						
	791 Miscellaneous						
V	A87	Reduce North Concourse by 5040 SF - Building Plumbing (assumes toilet rooms e	(5,040)	GSF	\$1.50	(8,000)	
	792 Independent (3rd party) Commissioning Agent					By Owner	
	793 Work with Owner Furnished Commissioning Agent					Included	
	794 Engineering, Layout & Shop Drawings					Included	
	795 As-Built Drawings, O&M Manuals & Warranty					Included	
	796 System Identification					Included	

**Turner** Aviation

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
797 Permits & Fees				Included		
798 Controlled Inspections				Included		
799 Controls & Control Wiring				Included		
800 Pressure Testing & Disinfection of Piping				Included		
801 Equipment Startup & Testing				Included		
802 Balancing of Domestic Water System				Included		
803 Core Drilling				Included		
804 Fire Stopping				Included		
805 Seismic Restraints & Vibration Isolation				Included		
806 Rigging, Hoisting & Aerial Lifts				Included		
807 Scaffolding				Included		
808 Temporary Heating				w/HVAC		
809 Temporary Utilities/Toilets				Included		
810 Standby Labor				Included		
811 Consumption Charges				w/ GC		
812 Trailer Hook-ups				Included		
813 Job Trailer (Shanty) - Tool / Equip Storage				Included		
814 Heat Tracing (Furnish) w/ Aluminum Jacketing						
815 Domestic Hot & Cold Water Piping				Included		
816 Heat Tracing (Furnish) w/ Insulation & Aluminum Jacketing						
817 Sanitary Drainage Piping				Included		
818 Drip Pans				Included		
819 Trenching/Excavation/Backfill				w/Foundations		
820 Concrete Equipment Pads				w/Concrete		
821 Painting				w/Painting		
822 Roof Work				w/Roofing		
823 Concession Areas Fit-out				Not Included		
824 Overtime				Not Included		
825						
826						
827 Subtotal: Miscellaneous					(\$8,000)	
828						
829 PLUMBING						\$6,175,000
830						
831 FIRE PROTECTION						
832						
833 Equipment & Accessories						
834 Incoming Fire Service Lines up to 5' of building wall				w/ Site Utilities		
835 Double Check Detector Assembly at Service Entrance (8")				w/ Plumbing		
836 Electric Fire Pump (1000 GPM, 100 HP) w/ Controller & ATS (ATS - Furnish only)	2	EA	\$125,000.00	\$250,000		
837 Jockey Pump (10GPM, 2 HP) w/ Controller	2	EA	\$7,500.00	\$15,000		
838 Storage Tank				Not Included		

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	839 Fire Extinguishers						
	840						
	841 Subtotal: Equipment & Accessories					\$265,000	
	842						
	843 Fire Standpipe System						
	844 Fire Standpipe Risers & Main Piping (6")	10,700	LF	\$80.00	\$856,000		
	845 Siamese Connections	36	EA	\$1,800.00	\$65,000		
	846 Fire Hose Racks/Cabinets	46	EA	\$2,000.00	\$92,000		
	847 Misc. Valves & Specialties	1	LS	\$50,000.00	\$50,000		
	848 Roof Manifold	3	EA	\$2,500.00	\$8,000		
	849						
	850 Subtotal: Fire Standpipe System					1,071,000	
	851						
	852						
	853 Wet System Sprinkler Piping & Heads						
	854 Sprinkler Main Piping - Risers & Horizontals from DCDA to All Zone Valves (4"-6")	8,700	LF	\$80.00	\$696,000		
	855 Arrival Level						
	856 SP Zone 1,2,4,5,6,7,8 & 9	240,740					
S	F47						
	857 Alarm Control Valve Assembly (ACV) (4")	8	EA	\$4,500.00	\$36,000		
	858 Sprinkler Heads	2,410	EA	\$350.00	\$844,000		
	859 Sprinkler Main Piping (4")	4,600	LF	\$50.00	\$230,000		
	860 Drain Piping (2")	800	LF	\$35.00	\$28,000		
	861 Sprinkler Branch Piping				Included		
	862 Misc. Valves & Specialties	1	LS	\$40,000.00	\$40,000		
	863 Departure Level						
	864 SP Zone 1,2,3,4,5,6 & 7	298,620					
S	F47						
	865 Alarm Control Valve Assembly (ACV) (4")	7	EA	\$4,500.00	\$32,000		
	866 Sprinkler Heads	2,990	EA	\$350.00	1,047,000		
	867 Sprinkler Main Piping (4")	4,600	LF	\$50.00	\$230,000		
	868 Drain Piping (2")	700	LF	\$35.00	\$25,000		
	869 Sprinkler Branch Piping				Included		
	870 Misc. Valves & Specialties	1	LS	\$35,000.00	\$35,000		
	871	539,360					
S	F47						
V	A87						
	Reduce North Concourse by 5040 SF - Building Fire Protection (wet system)	(5,040)	GSF	\$5.00	(25,000)		
V	A213						
	Delete SF @ North Floor	(5,690)	GSF	\$5.00	(28,000)		
	872 Subtotal: Wet System Sprinkler Piping & Heads					\$3,239,000	
	873						
	874 Dry Systems						
	875 Arrival Level						
S	P46						
	876 DSP Zone 1,2,3,4 & 5	71,320					
	877 Dry Valve Assembly w/ Air Compressor (DVA) (4")	5	EA	\$14,000.00	70,000		

**Turner** ≡ Aviation

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank Building System		Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	P46	878	Sprinkler Heads	920	EA	\$385.00	354,000
S	P46	879	Sprinkler Main Piping (4")	3,300	LF	\$60.00	198,000
		880	Drain Piping (2")	500	LF	\$35.00	\$18,000
		881	Sprinkler Branch Piping				Included
		882	Galvanized Pipe				Not Included
		883	Misc. Valves & Specialties	1	LS	\$25,000.00	\$25,000
		884	<u>Departure Level</u>				
		885	<u>DSP Zone 4 &amp; 5 (Skycap areas)</u>	1800			
S	P46	886	Dry Valve Assembly w/ Air Compressor (DVA) (4")	2	EA	\$14,000.00	28,000
S	P46	887	Sprinkler Heads	30	EA	\$385.00	12,000
S	P46	888	Sprinkler Main Piping (4")	600	LF	\$60.00	36,000
		889	Drain Piping (2")	200	LF	\$35.00	\$7,000
		890	Sprinkler Branch Piping				Included
		891	Galvanized Pipe				Not Included
		892	Misc. Valves & Specialties	1	LS	\$10,000.00	\$10,000
		893					
		894	<b>Subtotal: Dry Systems</b>	73,120			\$758,000
		895					
		896	<b>PreAction Systems</b>				
		897	<u>Arrival Level</u>				
		898	<u>Preaction SP Zone 1</u>	29350			
S	P46	899	Preaction Valve Assembly w/ Air Compressor (PVA Z-3) (4")	1	EA	\$16,500.00	17,000
S	P46	900	Preaction Panel	1	EA	\$5,000.00	5,000
S	P46	901	Sprinkler Heads	320	EA	\$385.00	123,000
S	P46	902	Sprinkler Main Piping (4")	500	LF	\$60.00	30,000
		903	Drain Piping (2")	100	LF	\$35.00	\$4,000
		904	Sprinkler Branch Piping				Included
		905	Misc. Valves & Specialties	1	LS	\$10,000.00	\$10,000
		906					
		907	<b>Subtotal: PreAction Systems</b>				\$189,000
		908					
		909	<b>Deluge Systems</b>				
S	F48	910	<u>Departure Level</u>				
S	F48	911	<u>Deluge SP Zone 1, 3 &amp; 3-1</u>	9,200			
S	F48	912	Deluge Valve Assembly (DLV) (4")	3	EA	\$12,500.00	\$38,000
S	F48	913	Alarm Panel	3	EA	\$5,000.00	\$15,000
S	F48	914	Sprinkler Heads	103	EA	\$385.00	\$40,000
S	F48	915	Sprinkler Main Piping (4")	1,030	LF	\$60.00	\$62,000
S	F48	916	Drain Piping (2")	150	LF	\$35.00	\$5,000
S	F48	917	Sprinkler Branch Piping				Included
S	F48	918	Misc. Valves & Specialties	1	LS	\$15,000.00	\$15,000
		919					

JetBlue Terminal 5  
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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
920 Subtotal: Deluge Systems					\$175,000	
921						
922 Specialty Systems						
923 Halon (FM-200), etc.				Not Included		
924 Kitchen Hood Fire Suppression System (Ansul)				w/ Concession Areas Fit-Out Work		
925						
926 Subtotal: Specialty Systems					\$0	
927						
928 Miscellaneous						
929 Independent (3rd party) Commissioning Agent				By Owner		
930 Work with Owner Furnished Commissioning Agent				Included		
931 Sprinkler Work Above and Below Ductwork Over 48" in Width				Included		
932 Hydraulic Calculations, Layout & Shop Drawings				Included		
933 As-Built Drawings, O&M Manuals & Warranty				Included		
934 System Identification				Included		
935 Permits & Fees				Included		
936 Controlled Inspections				Included		
937 Controls & Control Wiring				Included		
938 Pressure Testing & Flushing of Piping				Included		
939 Equipment Startup & Testing				Included		
940 Balancing for Fire Pumps				Included		
941 Core Drilling				Included		
942 Fire Stopping				Included		
943 Seismic Restraints & Vibration Isolation				Included		
944 Rigging, Hoisting & Aerial Lifts				Included		
945 Scaffolding				Included		
946 Job Trailers (Shanty) - Tool / Equip Storage				Included		
947 Heat Tracing (Furnish) w/Insulation & Aluminum Jacketing				Included		
948 Drip Pans				Included		
949 Attic Stock				Included		
950 Temporary Standpipe system				Use Permanent System		
951 Temporary Fire Protection				Use Permanent System		
952 Standby Labor & Fire Watch				Not Included		
953 Detectors (Heat & Smoke)				w/Electrical		
954 Fire Alarm & Control Wiring				w/Electrical		
955 Trenching/Excavation/Backfill				w/Foundations		
956 Concrete Equipment Pads				w/Concrete		
957 Painting				w/Painting		
958 Roof Work				w/Roofing		
959 Concession Areas Fit-out				Not Included		
960 Overtime				Not Included		
961						
962 Subtotal: Miscellaneous					\$0	

**Turner** ≡ Aviation

JetBlue Terminal 5  
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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	963						
	964 FIRE PROTECTION						\$5,697,000
	965						
	966 H.V.A.C.						
	967 <u>Heating &amp; Cooling Plant</u>						
	968						
	969 <u>Heating Plant</u>						
	970 Hot Water Meters (Energy)	2	EA	\$20,000.00	\$40,000		
	971 Retail Tenant Hot Water Meters (BTU)				w/ Retail Tenant Fitout		
V	H150	(2)	EA	\$10,000.00	(20,000)		
V	H150	(2)	EA	\$5,000.00	(10,000)		
	972 Hot Water Pumps [P-3 & 4] (560 gpm, 15 HP EA)						
	973 Variable Frequency Drive, 480 volt	1	EA	\$90,000.00	\$90,000		
	974 Hot Water Plate Frame Heat Exchanger [HX-1 & 2]	2	EA	\$25,000.00	\$50,000		
	975 Glycol Hot Water Pumps [P-5 & 6] (1960 gpm, 100 HP EA)	2	EA	\$15,000.00	\$30,000		
	976 Variable Frequency Drive, 480 volt	1	EA	\$15,000.00	\$15,000		
	977 Glycol Feed System	4	EA	\$2,000.00	\$8,000		
	978 Glycol Storage Vessels [GSV-1 to 4]	1	EA	\$5,000.00	\$5,000		
	979 Chemical Pot Feeder	1	EA	\$5,000.00	\$5,000		
	980 Expansion Tanks	1	EA	\$5,000.00	\$5,000		
	981 Air Separators	1	EA	\$5,000.00	\$5,000		
	982 Glycol	17,300	GAL	\$10.00	\$173,000		
	983 Water Treatment System				Not Included		
	984 Filtration System				Not Included		
	985						
	986 Subtotal: Heating Plant					\$391,000	
	987						
	988						
	989 <u>Heating Equipment</u>						
S	H25/H67	16	EA	\$3,500.00	\$56,000		
V	H149	(20)	EA	\$3,500.00	(\$70,000)		
	992 Air Curtain w/ HW Coil (Baggage Areas)	12	EA	\$7,500.00	\$90,000		
	993 Finned Tube Radiation w/ Standard Enclosure - Al/Cu (Allowance)	2,600	LF	\$100.00	\$260,000		
S	H24					Not Required	
S	H24	35	EA	\$70.00	\$2,000		
	995 Gas Fired Infra-Red Heaters (Baggage Areas)	31	EA	\$5,000.00	\$155,000		
	996 HW Radiant Heating Panels (Concession Areas)	8	EA	\$4,000.00	\$32,000		
S	H26					Not Required	
V	H149	34	EA	\$1,500.00	\$51,000		
	998 Horizontal HW Unit Heaters (MER's, Baggage Areas, etc)						
	999 ENERGY RECOVERY SYSTEM - pumps, piping coils, etc						
	1000 Toilet Exhaust System					Not Included	
	1001 General Exhaust System					Not Included	
	1002 Radiant Floor Conditioning System					Not Included	
	1003 Snow Melting System					Not Included	
V	H145	(2,800)	LF	100	(280,000)		
	Finned Tube Radiation w/ Standard Enclosure - Al/Cu (Allowance)						

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
V	H145 Glycol Hot Water Piping ( Secondary Mains & Branches)						
V	H145 1-1/2" - 4"	(2,550)	LF	75	(191,000)		
V	H145 Piping Insulation	(2,550)	LF	15	(38,000)		
V	H145 Thermostatic Radiator Control Valve (1 per 25 LF) - Hold Rooms	(85)	EA	100	(9,000)		
V	H147 Electric Unit Heaters	20	EA	1500	30,000		
	1004						
	1005 <b>Subtotal: Heating Equipment</b>					\$88,000	
	1006						
	1007						
	1008 <u>Cooling Plant</u>						
	1009 Main Chilled Water Meters (Energy)	2	EA	\$20,000.00	\$40,000		
	1010 Retail Tenant Chilled Water Meters (BTU)				w/ Retail Tenant Fitout		
	1011 Chilled Water Pumps [P-1 & 2] (2300 gpm, 100 HP EA)	2	EA	\$25,000.00	\$50,000		
	1012 Variable Frequency Drive, 480 volt	2	EA	\$15,000.00	\$30,000		
	1013 Chilled Water Plate Frame Heat Exchanger				Not Included		
	1014 Chilled Water Sand Filtration System				Not Included		
	1015 Water Treatment System				Not Included		
	1016 Filtration System				Not Included		
	1017						
	1018 <b>Subtotal: Cooling Plant</b>					\$120,000	
	1019						
	1020						
	1021 <u>Piping Distribution</u>						
	1022						
	1023 <u>Hot Water Piping ( Mains &amp; Risers)</u>						
	1024 8"	200	LF	\$195.00	\$39,000		
	1025 Piping Insulation	200	LF	\$50.00	\$10,000		
	1026 Valving & Misc. specialties	1	LS	\$75,000.00	\$75,000		
	1027 <u>Glycol Hot Water Piping ( Mains &amp; Risers)</u>						
	1028 12"	200	LF	\$195.00	\$39,000		
	1029 8" - 10"	1,900	LF	\$195.00	\$371,000		
	1030 6"	2,400	LF	\$98.00	\$235,000		
	1031 Piping Insulation	4,500	LF	\$35.00	\$158,000		
	1032 Valving & Misc. specialties	1	LS	\$75,000.00	\$75,000		
	1033 <u>Glycol Hot Water Piping ( Secondary Mains &amp; Branches)</u>						
V	H147/H149 1034 1-1/2" - 4"	9,930	LF	\$75.00	\$745,000		
	1035						
V	H147/H149 Piping Insulation	9,930	LF	\$15.00	\$149,000		
	1036 Valved Outlets for Retail Units	50	EA	\$500.00	\$25,000		
	1037 Valving & Misc. specialties	1	LS	\$50,000.00	\$50,000		
	1038 <u>Chilled Water Piping (Mains &amp; Risers)</u>						
	1039 16"	300	LF	\$275.00	\$83,000		
	1040 14"	600	LF	\$235.00	\$141,000		

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	1041 8" - 12"	3,100	LF	\$195.00	\$605,000		
	1042 6"	650	LF	\$98.00	\$64,000		
	1043 Piping Insulation	4,650	LF	\$40.00	\$186,000		
	1044 Valving & Misc. specialties	1	LS	\$150,000.00	\$150,000		
	1045 <u>Chilled Water Piping (Secondary Mains &amp; Branches)</u>						
V	H147/H149 1046 1-1/2" - 4"	5,000	LF	\$75.00	\$375,000		
	1047						
V	H147/H149 Piping Insulation	5,000	LF	\$30.00	\$150,000		
	1048 Valved Outlets for Retail Units	50	EA	\$500.00	\$25,000		
	1049 Valving & Misc. specialties	1	LS	\$50,000.00	\$50,000		
	1050 <u>Glycol Condenser Water Piping</u>						
	1051 3" - 4"	2,000	LF	\$75.00	\$150,000		
	1052 Piping Insulation	1,800	LF	\$65.00	\$117,000		
	1053 Piping Insulation (Foam Glass w/ SS Jacket)	200	LF	\$80.00	\$16,000		
	1054 Valving & Misc. specialties	1	LS	\$50,000.00	\$50,000		
	1055 Glycol	1,100	GAL	\$10.00	\$11,000		
	1056 <u>Condensate Drain Line</u>						
S	H30/H31 1057 1" - 2-1/2" (Allow)	905	LF	\$40.00	\$36,000		
S	H30/H31 1058 Piping Insulation	905	LF	\$12.00	\$11,000		
	1059						
	1060 <b>Subtotal: Piping Distribution</b>					\$4,191,000	
	1061						
	1062						
	1063 <u>Air Distribution</u>						
	1064						
	1065 <u>Air Handling Unit [AHU-1] [Departures]</u>	29,995	CFM	\$5.00	\$150,000		
	1066 Supply Fan				Included		
	1067 Variable Frequency Drive (75 HP)	1	EA	\$15,000.00	\$15,000		
	1068 Air to Air Heat Exchanger				Not Included		
	1069 Copper Tube/Aluminum Fins				Included		
	1070 Hot Water Pre-Heating Coil				Not Included		
	1071 Hot Water Heating Coil				Included		
	1072 Chilled Water Cooling Coil				Included		
	1073 Pre & Final Filters				Included		
	1074 Carbon Filters				Not Included		
	1966 Sound Traps	59,990	CFM	\$0.25	\$15,000		
	1076 Humidification				Not Included		
	1077 <u>Return Fan</u>	59,990	CFM	\$0.75	\$45,000		
	1078 Variable Frequency Drive (60 HP)	1	EA	\$15,000.00	\$15,000		
	1079 Galvanized Ductwork	44,800	LBS	\$8.50	\$381,000		
	1080 Acoustic Lining & Thermal Insulation	18,200	SF	\$3.50	\$64,000		
	1081 Volume Dampers				Included		
	1082 VAV Boxes	0	EA	\$1,500.00	\$0		

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1083	Reheat Coils	6	EA	\$1,500.00	\$9,000		
1084	Air Flow Measuring Station	6	EA	\$500.00	\$3,000		
1085	Motorized Dampers	36	SF	\$95.00	\$3,000		
1086	Fire Smoke Dampers	0	SF	\$350.00	\$0		
1087	Fire Dampers	73	SF	\$120.00	\$9,000		
1088	Grilles Registers & Diffusers	26	EA	\$175.00	\$5,000		
1089	Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
1090	Linear Diffusers	412	LF	\$100.00	\$41,000		
1091							
1092	<u>Air Handling Unit [AHU-2] [Arrivals]</u>	13,000	CFM	\$5.00	\$65,000		
1093	Supply Fan					Included	
1094	Variable Frequency Drive (30 HP)	1	EA	\$7,500.00	\$8,000		
1095	Air to Air Heat Exchanger					Not Included	
1096	Copper Tube/Aluminum Fins					Included	
1097	Hot Water Pre-Heating Coil					Not Included	
1098	Hot Water Heating Coil					Included	
1099	Chilled Water Cooling Coil					Included	
1100	Pre & Final Filters					Included	
1101	Carbon Filters					Not Included	
1966	Sound Traps	26,000	CFM	\$0.25	\$7,000		
1103	Humidification					Not Included	
1104	<u>Return Fan</u>	30,000	CFM	\$0.75	\$23,000		
1105	Variable Frequency Drive (40 HP)	1	EA	\$10,000.00	\$10,000		
1106	Galvanized Ductwork	19,100	LBS	\$8.50	\$162,000		
1107	Acoustic Lining & Thermal Insulation	8,900	SF	\$3.50	\$31,000		
1108	Volume Dampers					Included	
1109	VAV Boxes	20	EA	\$1,500.00	\$30,000		
S H32	Add HW Coils for VAV Boxes	20	EA	\$1,000.00	\$20,000		
1110	Reheat Coils	0	EA	\$1,500.00	\$0		
1111	Air Flow Measuring Station	0	EA	\$500.00	\$0		
1112	Motorized Dampers	0	SF	\$95.00	\$0		
S H34	1113 Fire Smoke Dampers					w/ Below	
1114	Fire Dampers	32	SF	\$120.00	\$4,000		
1115	Grilles Registers & Diffusers	52	EA	\$175.00	\$9,000		
1116	Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
1117	Linear Diffusers	0	LF	\$100.00	\$0		
1118							
1119	<u>Air Handling Unit [AHU-3] [Departures]</u>	16,000	CFM	\$5.00	\$80,000		
1120	Supply Fan					Included	
1121	Variable Frequency Drive (40 HP)	1	EA	\$10,000.00	\$10,000		
1122	Air to Air Heat Exchanger					Not Included	
1123	Copper Tube/Aluminum Fins					Included	
1124	Hot Water Pre-Heating Coil					Not Included	

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1125	Hot Water Heating Coil					Included	
1126	Chilled Water Cooling Coil					Included	
1127	Pre & Final Filters					Included	
1128	Carbon Filters					Not Included	
1966	Sound Traps	32,000	CFM	\$0.25		\$8,000	
1130	Humidification					Not Included	
1131	<u>Return Fan</u>	50,000	CFM	\$0.75		\$38,000	
1132	Variable Frequency Drive (50 HP)	1	EA	\$10,000.00		\$10,000	
1133	Galvanized Ductwork	34,200	LBS	\$8.50		\$291,000	
1134	Acoustic Lining & Thermal Insulation	14,200	SF	\$3.50		\$50,000	
1135	Volume Dampers					Included	
1136	VAV Boxes	0	EA	\$1,500.00		\$0	
1137	Reheat Coils	4	EA	\$1,500.00		\$6,000	
1138	Air Flow Measuring Station	4	EA	\$500.00		\$2,000	
1139	Motorized Dampers	19	SF	\$95.00		\$2,000	
1140	Fire Smoke Dampers	0	SF	\$350.00		\$0	
1141	Fire Dampers	39	SF	\$120.00		\$5,000	
1142	Grilles Registers & Diffusers	37	EA	\$175.00		\$6,000	
1143	Jet Nozzle Diffusers	0	EA	\$200.00		\$0	
1144	Linear Diffusers	492	LF	\$100.00		\$49,000	
1145							
1146	<u>Air Handling Unit [AHU-4] [Departures]</u>	29,995	CFM	\$5.00		\$150,000	
1147	Supply Fan					Included	
1148	Variable Frequency Drive (75 HP)	1	EA	\$15,000.00		\$15,000	
1149	Air to Air Heat Exchanger					Not Included	
1150	Copper Tube/Aluminum Fins					Included	
1151	Hot Water Pre-Heating Coil					Not Included	
1152	Hot Water Heating Coil					Included	
1153	Chilled Water Cooling Coil					Included	
1154	Pre & Final Filters					Included	
1155	Carbon Filters					Not Included	
1966	Sound Traps	59,990	CFM	\$0.25		\$15,000	
1157	Humidification					Not Included	
1158	<u>Return Fan</u>	59,990	CFM	\$0.75		\$45,000	
1159	Variable Frequency Drive (60 HP)	1	EA	\$15,000.00		\$15,000	
1160	Galvanized Ductwork	45,500	LBS	\$8.50		\$387,000	
1161	Acoustic Lining & Thermal Insulation	18,000	SF	\$3.50		\$63,000	
1162	Volume Dampers					Included	
1163	VAV Boxes	0	EA	\$1,500.00		\$0	
1164	Reheat Coils	4	EA	\$1,500.00		\$6,000	
1165	Air Flow Measuring Station	4	EA	\$500.00		\$2,000	
1166	Motorized Dampers	36	SF	\$95.00		\$3,000	
1167	Fire Smoke Dampers	0	SF	\$350.00		\$0	

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Rank Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1168 Fire Dampers	73	SF	\$120.00	\$9,000		
1169 Grilles Registers & Diffusers	45	EA	\$175.00	\$8,000		
1170 Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
1171 Linear Diffusers	500	LF	\$100.00	\$50,000		
1172						
1173 <u>Air Handling Unit [AHU-5] [Departures]</u>	23,000	CFM	\$5.00	\$115,000		
1174 Supply Fan					Included	
1175 Variable Frequency Drive (50 HP)	1	EA	\$10,000.00	\$10,000		
1176 Air to Air Heat Exchanger					Not Included	
1177 Copper Tube/Aluminum Fins					Included	
1178 Hot Water Pre-Heating Coil					Not Included	
1179 Hot Water Heating Coil					Included	
1180 Chilled Water Cooling Coil					Included	
1181 Pre & Final Filters					Included	
1182 Carbon Filters					Not Included	
1966 Sound Traps	46,000	CFM	\$0.25	\$12,000		
1184 Humidification					Not Included	
1185 <u>Return Fan</u>	50,000	CFM	\$0.75	\$38,000		
1186 Variable Frequency Drive (50 HP)	1	EA	\$10,000.00	\$10,000		
1187 Galvanized Ductwork	58,500	LBS	\$8.50	\$497,000		
1188 Acoustic Lining & Thermal Insulation	23,200	SF	\$3.50	\$81,000		
1189 Volume Dampers					Included	
1190 VAV Boxes	0	EA	\$1,500.00	\$0		
1191 Reheat Coils	4	EA	\$1,500.00	\$6,000		
1192 Air Flow Measuring Station	4	EA	\$500.00	\$2,000		
1193 Motorized Dampers	28	SF	\$95.00	\$3,000		
1194 Fire Smoke Dampers	0	SF	\$350.00	\$0		
1195 Fire Dampers	56	SF	\$120.00	\$7,000		
1196 Grilles Registers & Diffusers	4	EA	\$175.00	\$1,000		
1197 Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
1198 Linear Diffusers	632	LF	\$100.00	\$63,000		
1199						
1200 <u>Air Handling Unit [AHU-6] [Departures]</u>	25,000	CFM	\$5.00	\$125,000		
1201 Supply Fan					Included	
1202 Variable Frequency Drive (60 HP)	1	EA	\$15,000.00	\$15,000		
1203 Air to Air Heat Exchanger					Not Included	
1204 Copper Tube/Aluminum Fins					Included	
1205 Hot Water Pre-Heating Coil					Not Included	
1206 Hot Water Heating Coil					Included	
1207 Chilled Water Cooling Coil					Included	
1208 Pre & Final Filters					Included	
1209 Carbon Filters					Not Included	
1966 Sound Traps	50,000	CFM	\$0.25	\$13,000		

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Rank Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1211 Humidification					Not Included	
1212 <u>Return Fan</u>	50,000	CFM	\$0.75	\$38,000		
1213 Variable Frequency Drive (50 HP)	1	EA	\$10,000.00	\$10,000		
1214 Galvanized Ductwork	38,800	LBS	\$8.50	\$330,000		
1215 Acoustic Lining & Thermal Insulation	15,800	SF	\$3.50	\$55,000		
1216 Volume Dampers					Included	
1217 VAV Boxes	0	EA	\$1,500.00	\$0		
1218 Reheat Coils	4	EA	\$1,500.00	\$6,000		
1219 Air Flow Measuring Station	4	EA	\$500.00	\$2,000		
1220 Motorized Dampers	30	SF	\$95.00	\$3,000		
1221 Fire Smoke Dampers	0	SF	\$350.00	\$0		
1222 Fire Dampers	61	SF	\$120.00	\$7,000		
1223 Grilles Registers & Diffusers	2	EA	\$175.00	\$0		
1224 Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
1225 Linear Diffusers	444	LF	\$100.00	\$44,000		
1226						
1227 <u>Air Handling Unit (AHU-7) (Departures)</u>	24,000	CFM	\$5.00	\$120,000		
1228 Supply Fan					Included	
1229 Variable Frequency Drive (60 HP)	1	EA	\$15,000.00	\$15,000		
1230 Air to Air Heat Exchanger					Not Included	
1231 Copper Tube/Aluminum Fins					Included	
1232 Hot Water Pre-Heating Coil					Not Included	
1233 Hot Water Heating Coil					Included	
1234 Chilled Water Cooling Coil					Included	
1235 Pre & Final Filters					Included	
1236 Carbon Filters					Not Included	
1966 Sound Traps	48,000	CFM	\$0.25	\$12,000		
1238 Humidification					Not Included	
1239 <u>Return Fan</u>	48,200	CFM	\$0.75	\$36,000		
1240 Variable Frequency Drive (50 HP)	1	EA	\$10,000.00	\$10,000		
1241 Galvanized Ductwork	39,000	LBS	\$8.50	\$332,000		
1242 Acoustic Lining & Thermal Insulation	15,500	SF	\$3.50	\$54,000		
1243 Volume Dampers					Included	
1244 VAV Boxes	0	EA	\$1,500.00	\$0		
1245 Reheat Coils	1	EA	\$1,500.00	\$2,000		
1246 Air Flow Measuring Station	1	EA	\$500.00	\$1,000		
1247 Motorized Dampers	29	SF	\$95.00	\$3,000		
1248 Fire Smoke Dampers	0	SF	\$350.00	\$0		
1249 Fire Dampers	58	SF	\$120.00	\$7,000		
1250 Grilles Registers & Diffusers	2	EA	\$175.00	\$0		
1251 Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
1252 Linear Diffusers	364	LF	\$100.00	\$36,000		

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Rank Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1253						
1254 <u>Air Handling Unit [AHU-8] [Departures]</u>	15,000	CFM	\$5.00	\$75,000		
1255 Supply Fan					Included	
1256 Variable Frequency Drive (40 HP)	1	EA	\$10,000.00	\$10,000		
1257 Air to Air Heat Exchanger					Not Included	
1258 Copper Tube/Aluminum Fins					Included	
1259 Hot Water Pre-Heating Coil					Not Included	
1260 Hot Water Heating Coil					Included	
1261 Chilled Water Cooling Coil					Included	
1262 Pre & Final Filters					Included	
1263 Carbon Filters					Not Included	
1966 Sound Traps	30,000	CFM	\$0.25	\$8,000		
1265 Humidification					Not Included	
1266 <u>Return Fan</u>	28,400	CFM	\$0.75	\$21,000		
1267 Variable Frequency Drive (30 HP)	1	EA	\$7,500.00	\$8,000		
1268 Galvanized Ductwork	31,700	LBS	\$8.50	\$269,000		
1269 Acoustic Lining & Thermal Insulation	12,800	SF	\$3.50	\$45,000		
1270 Volume Dampers					Included	
1271 VAV Boxes	0	EA	\$1,500.00	\$0		
1272 Reheat Coils	4	EA	\$1,500.00	\$6,000		
1273 Air Flow Measuring Station	4	EA	\$500.00	\$2,000		
1274 Motorized Dampers	18	SF	\$95.00	\$2,000		
1275 Fire Smoke Dampers	0	SF	\$350.00	\$0		
1276 Fire Dampers	36	SF	\$120.00	\$4,000		
1277 Grilles Registers & Diffusers	0	EA	\$175.00	\$0		
1278 Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
1279 Linear Diffusers	274	LF	\$100.00	\$27,000		
1280						
1281 <u>Air Handling Unit [AHU-9] [Arrivals]</u>	22,000	CFM	\$5.00	\$110,000		
1282 Supply Fan					Included	
1283 Variable Frequency Drive (50 HP)	1	EA	\$10,000.00	\$10,000		
1284 Air to Air Heat Exchanger					Not Included	
1285 Copper Tube/Aluminum Fins					Included	
1286 Hot Water Pre-Heating Coil					Not Included	
1287 Hot Water Heating Coil					Included	
1288 Chilled Water Cooling Coil					Included	
1289 Pre & Final Filters					Included	
1290 Carbon Filters					Not Included	
1966 Sound Traps	44,000	CFM	\$0.25	\$11,000		
1292 Humidification					Not Included	
1293 <u>Return Fan</u>	41,600	CFM	\$0.75	\$31,000		
1294 Variable Frequency Drive (50 HP)	1	EA	\$10,000.00	\$10,000		
1295 Galvanized Ductwork	35,900	LBS	\$8.50	\$305,000		

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	1296 Acoustic Lining & Thermal Insulation	15,500	SF	\$3.50	\$54,000		
	1297 Volume Dampers				Included		
	1298 VAV Boxes	0	EA	\$1,500.00	\$0		
	1299 Reheat Coils	0	EA	\$1,500.00	\$0		
	1300 Air Flow Measuring Station	0	EA	\$500.00	\$0		
	1301 Motorized Dampers	0	SF	\$95.00	\$0		
S	H34 1302 Fire Smoke Dampers					w/ Below	
	1303 Fire Dampers	53	SF	\$120.00	\$6,000		
	1304 Grilles Registers & Diffusers	32	EA	\$175.00	\$6,000		
	1305 Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
	1306 Linear Diffusers	0	LF	\$100.00	\$0		
	1307						
	1308 <u>Air Handling Unit [AHU-10] [Arrivals]</u>	18,000	CFM	\$5.00	\$90,000		
	1309 Supply Fan				Included		
	1310 Variable Frequency Drive (40 HP)	1	EA	\$10,000.00	\$10,000		
	1311 Air to Air Heat Exchanger				Not Included		
	1312 Copper Tube/Aluminum Fins				Included		
	1313 Hot Water Pre-Heating Coil				Not Included		
	1314 Hot Water Heating Coil				Included		
	1315 Chilled Water Cooling Coil				Included		
	1316 Pre & Final Filters				Included		
	1317 Carbon Filters				Not Included		
	1966 Sound Traps	36,000	CFM	\$0.25	\$9,000		
	1319 Humidification				Not Included		
	1320 <u>Return Fan</u>	24,600	CFM	\$0.75	\$18,000		
	1321 Variable Frequency Drive (30 HP)	1	EA	\$7,500.00	\$8,000		
	1322 Galvanized Ductwork	28,000	LBS	\$8.50	\$238,000		
	1323 Acoustic Lining & Thermal Insulation	14,900	SF	\$3.50	\$52,000		
	1324 Volume Dampers				Included		
	1325 VAV Boxes	15	EA	\$1,500.00	\$23,000		
S	H32 Add HW Coils for VAV Boxes	15	EA	\$1,000.00	\$15,000		
	1326 Reheat Coils	0	EA	\$1,500.00	\$0		
	1327 Air Flow Measuring Station	0	EA	\$500.00	\$0		
	1328 Motorized Dampers	0	SF	\$95.00	\$0		
S	H34 1329 Fire Smoke Dampers					w/ Below	
	1330 Fire Dampers	44	SF	\$120.00	\$5,000		
	1331 Grilles Registers & Diffusers	72	EA	\$175.00	\$13,000		
	1332 Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
	1333 Linear Diffusers	0	LF	\$100.00	\$0		
	1334						
	1335 <u>Air Handling Unit [AHU-11] [Departures]</u>	12,000	CFM	\$5.00	\$60,000		
	1336 Supply Fan				Included		

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1337	Variable Frequency Drive (30 HP)	1	EA	\$7,500.00	\$8,000		
1338	Air to Air Heat Exchanger				Not Included		
1339	Copper Tube/Aluminum Fins				Included		
1340	Hot Water Pre-Heating Coil				Not Included		
1341	Hot Water Heating Coil				Included		
1342	Chilled Water Cooling Coil				Included		
1343	Pre & Final Filters				Included		
1344	Carbon Filters				Not Included		
1345	Sound Traps	24,000	CFM	\$0.25	\$6,000		
1346	Humidification				Not Included		
1347	<u>Return Fan</u>	19,400	CFM	\$0.75	\$15,000		
1348	Variable Frequency Drive (25 HP)	1	EA	\$7,500.00	\$8,000		
1349	Galvanized Ductwork	17,600	LBS	\$8.50	\$150,000		
1350	Acoustic Lining & Thermal Insulation	11,733	SF	\$3.50	\$41,000		
1351	Volume Dampers				Included		
1352	VAV Boxes	14	EA	\$1,500.00	\$21,000		
S	H32						
	Add HW Coils for VAV Boxes	14	EA	\$1,000.00	\$14,000		
1353	Reheat Coils	0	EA	\$1,500.00	\$0		
1354	Air Flow Measuring Station	0	EA	\$500.00	\$0		
1355	Motorized Dampers	0	SF	\$95.00	\$0		
1356	Fire Smoke Dampers	0	SF	\$350.00	\$0		
1357	Fire Dampers	29	SF	\$120.00	\$3,000		
1358	Grilles Registers & Diffusers	48	EA	\$175.00	\$8,000		
1359	Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
1360	Linear Diffusers	0	LF	\$100.00	\$0		
1361							
1362	<u>Air Handling Unit [AHU-12] [Arrivals]</u>	20,000	CFM	\$5.00	\$100,000		
1363	Supply Fan				Included		
1364	Variable Frequency Drive (50 HP)	1	EA	\$10,000.00	\$10,000		
1365	Air to Air Heat Exchanger				Not Included		
1366	Copper Tube/Aluminum Fins				Included		
1367	Hot Water Pre-Heating Coil				Not Included		
1368	Hot Water Heating Coil				Included		
1369	Chilled Water Cooling Coil				Included		
1370	Pre & Final Filters				Included		
1371	Carbon Filters				Not Included		
1966	Sound Traps	40,000	CFM	\$0.25	\$10,000		
1373	Humidification				Not Included		
1374	<u>Return Fan</u>	36,200	CFM	\$0.75	\$27,000		
1375	Variable Frequency Drive (40 HP)	1	EA	\$10,000.00	\$10,000		
1376	Galvanized Ductwork	41,000	LBS	\$8.50	\$349,000		
1377	Acoustic Lining & Thermal Insulation	17,200	SF	\$3.50	\$60,000		
1378	Volume Dampers				Included		

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Terminal/Concourse Building

Building Area: 639,470 GSF

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1379	VAV Boxes	0	EA	\$1,500.00	\$0		
1380	Reheat Coils	0	EA	\$1,500.00	\$0		
1381	Air Flow Measuring Station	0	EA	\$500.00	\$0		
1382	Motorized Dampers	0	SF	\$95.00	\$0		
1383	Fire Smoke Dampers				w/ Below		
1384	Fire Dampers	48	SF	\$120.00	\$6,000		
1385	Grilles Registers & Diffusers	0	EA	\$175.00	\$0		
1386	Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
1387	Linear Diffusers	252	LF	\$100.00	\$25,000		
1388							
1389	<u>Air Handling Unit [AHU-13] [Departures]</u>	22,000	CFM	\$5.00	\$110,000		
1390	Supply Fan				Included		
1391	Variable Frequency Drive (50 HP)	1	EA	\$10,000.00	\$10,000		
1392	Air to Air Heat Exchanger				Not Included		
1393	Copper Tube/Aluminum Fins				Included		
1394	Hot Water Pre-Heating Coil				Not Included		
1395	Hot Water Heating Coil				Included		
1396	Chilled Water Cooling Coil				Included		
1397	Pre & Final Filters				Included		
1398	Carbon Filters				Not Included		
1966	Sound Traps	44,000	CFM	\$0.25	\$11,000		
1400	Humidification				Not Included		
1401	<u>Return Fan</u>	42,800	CFM	\$0.75	\$32,000		
1402	Variable Frequency Drive (50 HP)	1	EA	\$10,000.00	\$10,000		
1403	Galvanized Ductwork	34,500	LBS	\$8.50	\$293,000		
1404	Acoustic Lining & Thermal Insulation	13,800	SF	\$3.50	\$48,000		
1405	Volume Dampers				Included		
1406	VAV Boxes	0	EA	\$1,500.00	\$0		
1407	Reheat Coils	4	EA	\$1,500.00	\$6,000		
1408	Air Flow Measuring Station	4	EA	\$500.00	\$2,000		
1409	Motorized Dampers	27	SF	\$95.00	\$3,000		
1410	Fire Smoke Dampers	0	SF	\$350.00	\$0		
1411	Fire Dampers	53	SF	\$120.00	\$6,000		
1412	Grilles Registers & Diffusers	0	EA	\$175.00	\$0		
1413	Jet Nozzle Diffusers	10	EA	\$200.00	\$2,000		
1414	Linear Diffusers	348	LF	\$100.00	\$35,000		
1415							
1416	<u>Air Handling Unit [AHU-14] [Departures]</u>	20,000	CFM	\$5.00	\$100,000		
1417	Supply Fan				Included		
1418	Variable Frequency Drive (50 HP)	1	EA	\$10,000.00	\$10,000		
1419	Air to Air Heat Exchanger				Not Included		
1420	Copper Tube/Aluminum Fins				Included		
1421	Hot Water Pre-Heating Coil				Not Included		

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1422	Hot Water Heating Coil					Included	
1423	Chilled Water Cooling Coil					Included	
1424	Pre & Final Filters					Included	
1425	Carbon Filters					Not Included	
1966	Sound Traps	40,000	CFM	\$0.25		\$10,000	
1427	Humidification					Not Included	
1428	<u>Return Fan</u>	59,990	CFM	\$0.75	\$45,000		
1429	Variable Frequency Drive (60 HP)	1	EA	\$15,000.00	\$15,000		
1430	Galvanized Ductwork	31,100	LBS	\$8.50	\$264,000		
1431	Acoustic Lining & Thermal Insulation	13,200	SF	\$3.50	\$46,000		
1432	Volume Dampers					Included	
1433	VAV Boxes	0	EA	\$1,500.00	\$0		
1434	Reheat Coils	0	EA	\$1,500.00	\$0		
1435	Air Flow Measuring Station	0	EA	\$500.00	\$0		
1436	Motorized Dampers	0	SF	\$95.00	\$0		
1437	Fire Smoke Dampers	0	SF	\$350.00	\$0		
1438	Fire Dampers	48	SF	\$120.00	\$6,000		
1439	Grilles Registers & Diffusers	0	EA	\$175.00	\$0		
1440	Jet Nozzle Diffusers	31	EA	\$200.00	\$6,000		
1441	Linear Diffusers	108	LF	\$100.00	\$11,000		
1442							
1443	<u>Air Handling Unit [AHU-15] [Arrivals]</u>	29,995	CFM	\$5.00	\$150,000		
1444	Supply Fan					Included	
1445	Variable Frequency Drive (75 HP)	1	EA	\$15,000.00	\$15,000		
1446	Air to Air Heat Exchanger					Not Included	
1447	Copper Tube/Aluminum Fins					Included	
1448	Hot Water Pre-Heating Coil					Not Included	
1449	Hot Water Heating Coil					Included	
1450	Chilled Water Cooling Coil					Included	
1451	Pre & Final Filters					Included	
1452	Carbon Filters					Not Included	
1966	Sound Traps	59,990	CFM	\$0.25	\$15,000		
1454	Humidification					Not Included	
1455	<u>Return Fan</u>	59,990	CFM	\$0.75	\$45,000		
1456	Variable Frequency Drive (60 HP)	1	EA	\$15,000.00	\$15,000		
1457	Galvanized Ductwork	35,900	LBS	\$8.50	\$305,000		
1458	Acoustic Lining & Thermal Insulation	15,500	SF	\$3.50	\$54,000		
1459	Volume Dampers					Included	
1460	VAV Boxes	15	EA	\$1,500.00	\$23,000		
S H32	Add HW Coils for VAV Boxes	15	EA	\$1,000.00	\$15,000		
1461	Reheat Coils	0	EA	\$1,500.00	\$0		
1462	Air Flow Measuring Station	0	EA	\$500.00	\$0		
1463	Motorized Dampers	0	SF	\$95.00	\$0		

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	H34	1464	Fire Smoke Dampers			w/ Below	
		1465	Fire Dampers	73	SF	\$120.00	\$9,000
		1466	Grilles Registers & Diffusers	120	EA	\$175.00	\$21,000
		1467	Jet Nozzle Diffusers	0	EA	\$200.00	\$0
		1468	Linear Diffusers	0	LF	\$100.00	\$0
		1469					
		1470	<u>Air Handling Unit [AHU-16] [Arrivals]</u>	23,000	CFM	\$5.00	\$115,000
		1471	Supply Fan				Included
		1472	Variable Frequency Drive (50 HP)	1	EA	\$10,000.00	\$10,000
		1473	Air to Air Heat Exchanger				Not Included
		1474	Copper Tube/Aluminum Fins				Included
		1475	Hot Water Pre-Heating Coil				Not Included
		1476	Hot Water Heating Coil				Included
		1477	Chilled Water Cooling Coil				Included
		1478	Pre & Final Filters				Included
		1479	Carbon Filters				Not Included
		1966	Sound Traps	46,000	CFM	\$0.25	\$12,000
		1481	Humidification				Not Included
		1482	<u>Return Fan</u>	38,400	CFM	\$0.75	\$29,000
		1483	Variable Frequency Drive (40 HP)	1	EA	\$10,000.00	\$10,000
		1484	Galvanized Ductwork	35,000	LBS	\$8.50	\$298,000
		1485	Acoustic Lining & Thermal Insulation	23,300	SF	\$3.50	\$82,000
		1486	Volume Dampers				Included
		1487	VAV Boxes	16	EA	\$1,500.00	\$24,000
S	H32		Add HW Coils for VAV Boxes	16	EA	\$1,000.00	\$16,000
		1488	Reheat Coils	0	EA	\$1,500.00	\$0
		1489	Air Flow Measuring Station	0	EA	\$500.00	\$0
		1490	Motorized Dampers	0	SF	\$95.00	\$0
S	H34	1491	Fire Smoke Dampers				w/ Below
		1492	Fire Dampers	56	SF	\$120.00	\$7,000
		1493	Grilles Registers & Diffusers	92	EA	\$175.00	\$16,000
		1494	Jet Nozzle Diffusers	0	EA	\$200.00	\$0
		1495	Linear Diffusers	0	LF	\$100.00	\$0
		1496					
		1497	<u>Air Handling Unit [AHU-17] [Departures]</u>	24,000	CFM	\$5.00	\$120,000
		1498	Supply Fan				Included
		1499	Variable Frequency Drive (60 HP)	1	EA	\$15,000.00	\$15,000
		1500	Air to Air Heat Exchanger				Not Included
		1501	Copper Tube/Aluminum Fins				Included
		1502	Hot Water Pre-Heating Coil				Not Included
		1503	Hot Water Heating Coil				Included
		1504	Chilled Water Cooling Coil				Included
		1505	Pre & Final Filters				Included

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1506	Carbon Filters						Not Included
1966	Sound Traps	48,000	CFM	\$0.25	\$12,000		
1508	Humidification						Not Included
1509	<u>Return Fan</u>	40,000	CFM	\$0.75	\$30,000		
1510	Variable Frequency Drive (40 HP)	1	EA	\$10,000.00	\$10,000		
1511	Galvanized Ductwork	14,200	LBS	\$8.50	\$121,000		
1512	Acoustic Lining & Thermal Insulation	6,200	SF	\$3.50	\$22,000		
1513	Volume Dampers						Included
1514	VAV Boxes	0	EA	\$1,500.00	\$0		
1515	Reheat Coils	0	EA	\$1,500.00	\$0		
1516	Air Flow Measuring Station	0	EA	\$500.00	\$0		
1517	Motorized Dampers	0	SF	\$95.00	\$0		
1518	Fire Smoke Dampers	0	SF	\$350.00	\$0		
1519	Fire Dampers	58	SF	\$120.00	\$7,000		
1520	Grilles Registers & Diffusers	31	EA	\$175.00	\$5,000		
1521	Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
1522	Linear Diffusers	0	LF	\$100.00	\$0		
1523							
1524	<u>Air Handling Unit (AHU-18) (Arrivals)</u>	29,995	CFM	\$5.00	\$150,000		
1525	Supply Fan						Included
1526	Variable Frequency Drive (75 HP)	1	EA	\$15,000.00	\$15,000		
1527	Air to Air Heat Exchanger						Not Included
1528	Copper Tube/Aluminum Fins						Included
1529	Hot Water Pre-Heating Coil						Not Included
1530	Hot Water Heating Coil						Included
1531	Chilled Water Cooling Coil						Included
1532	Pre & Final Filters						Included
1533	Carbon Filters						Not Included
1966	Sound Traps	59,990	CFM	\$0.25	\$15,000		
1535	Humidification						Not Included
1536	<u>Return Fan</u>	59,990	CFM	\$0.75	\$45,000		
1537	Variable Frequency Drive (60 HP)	1	EA	\$15,000.00	\$15,000		
1538	Galvanized Ductwork	23,800	LBS	\$8.50	\$202,000		
1539	Acoustic Lining & Thermal Insulation	9,100	SF	\$3.50	\$32,000		
1540	Volume Dampers						Included
1541	VAV Boxes	0	EA	\$1,500.00	\$0		
1542	Reheat Coils	0	EA	\$1,500.00	\$0		
1543	Air Flow Measuring Station	0	EA	\$500.00	\$0		
1544	Motorized Dampers	0	SF	\$95.00	\$0		
S H34	1545 Fire Smoke Dampers						w/ Below
	1546 Fire Dampers	73	SF	\$120.00	\$9,000		
	1547 Grilles Registers & Diffusers	11	EA	\$175.00	\$2,000		

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1548 Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
1549 Linear Diffusers	0	LF	\$100.00	\$0		
1550						
1551 <u>Air Handling Unit [AHU-19] [Arrivals]</u>	21,000	CFM	\$5.00	\$105,000		
1552 Supply Fan				Included		
1553 Variable Frequency Drive (50 HP)	1	EA	\$10,000.00	\$10,000		
1554 Air to Air Heat Exchanger				Not Included		
1555 Copper Tube/Aluminum Fins				Included		
1556 Hot Water Pre-Heating Coil				Not Included		
1557 Hot Water Heating Coil				Included		
1558 Chilled Water Cooling Coil				Included		
1559 Pre & Final Filters				Included		
1560 Carbon Filters				Not Included		
1966 Sound Traps	42,000	CFM	\$0.25	\$11,000		
1562 Humidification				Not Included		
1563 <u>Return Fan</u>	52,200	CFM	\$0.75	\$39,000		
1564 Variable Frequency Drive (60 HP)	1	EA	\$15,000.00	\$15,000		
1565 Galvanized Ductwork	32,200	LBS	\$8.50	\$274,000		
1566 Acoustic Lining & Thermal Insulation	12,700	SF	\$3.50	\$44,000		
1567 Volume Dampers				Included		
1568 VAV Boxes	0	EA	\$1,500.00	\$0		
1569 Reheat Coils	0	EA	\$1,500.00	\$0		
1570 Air Flow Measuring Station	0	EA	\$500.00	\$0		
1571 Motorized Dampers	18	SF	\$95.00	\$2,000		
S H34 1572 Fire Smoke Dampers				w/ Below		
1573 Fire Dampers	51	SF	\$120.00	\$6,000		
1574 Grilles Registers & Diffusers	29	EA	\$175.00	\$5,000		
1575 Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
1576 Linear Diffusers	0	LF	\$100.00	\$0		
1577						
1578 <u>Air Handling Unit [AHU-20] [Departures]</u>	27,000	CFM	\$5.00	\$135,000		
1579 Supply Fan				Included		
1580 Variable Frequency Drive (60 HP)	1	EA	\$15,000.00	\$15,000		
1581 Air to Air Heat Exchanger				Not Included		
1582 Copper Tube/Aluminum Fins				Included		
1583 Hot Water Pre-Heating Coil				Not Included		
1584 Hot Water Heating Coil				Included		
1585 Chilled Water Cooling Coil				Included		
1586 Pre & Final Filters				Included		
1587 Carbon Filters				Not Included		
1966 Sound Traps	54,000	CFM	\$0.25	\$14,000		
1589 Humidification				Not Included		
1590 <u>Return Fan</u>	59,990	CFM	\$0.75	\$45,000		

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Rank Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1591 Variable Frequency Drive (60 HP)	1	EA	\$15,000.00	\$15,000		
1592 Galvanized Ductwork	25,600	LBS	\$8.50	\$218,000		
1593 Acoustic Lining & Thermal Insulation	12,100	SF	\$3.50	\$42,000		
1594 Volume Dampers					Included	
1595 VAV Boxes	0	EA	\$1,500.00	\$0		
1596 Reheat Coils	0	EA	\$1,500.00	\$0		
1597 Air Flow Measuring Station	0	EA	\$500.00	\$0		
1598 Motorized Dampers	0	SF	\$95.00	\$0		
1599 Fire Smoke Dampers	0	SF	\$350.00	\$0		
1600 Fire Dampers	65	SF	\$120.00	\$8,000		
1601 Grilles Registers & Diffusers	53	EA	\$175.00	\$9,000		
1602 Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
1603 Linear Diffusers	0	LF	\$100.00	\$0		
1604						
1605 <u>Air Handling Unit [AHU-21] [Departures]</u>	15,000	CFM	\$5.00	\$75,000		
1606 Supply Fan					Included	
1607 Variable Frequency Drive (40 HP)	1	EA	\$10,000.00	\$10,000		
1608 Air to Air Heat Exchanger					Not Included	
1609 Copper Tube/Aluminum Fins					Included	
1610 Hot Water Pre-Heating Coil					Not Included	
1611 Hot Water Heating Coil					Included	
1612 Chilled Water Cooling Coil					Included	
1613 Pre & Final Filters					Included	
1614 Carbon Filters					Not Included	
1966 Sound Traps	30,000	CFM	\$0.25	\$8,000		
1616 Humidification					Not Included	
1617 <u>Return Fan</u>	28,000	CFM	\$0.75	\$21,000		
1618 Variable Frequency Drive (30 HP)	1	EA	\$10,000.00	\$10,000		
1619 Galvanized Ductwork	22,900	LBS	\$8.50	\$195,000		
1620 Acoustic Lining & Thermal Insulation	8,600	SF	\$3.50	\$30,000		
1621 Volume Dampers					Included	
1622 VAV Boxes	0	EA	\$1,500.00	\$0		
1623 Reheat Coils	0	EA	\$1,500.00	\$0		
1624 Air Flow Measuring Station	0	EA	\$500.00	\$0		
1625 Motorized Dampers	0	SF	\$95.00	\$0		
1626 Fire Smoke Dampers	0	SF	\$350.00	\$0		
1627 Fire Dampers	36	SF	\$120.00	\$4,000		
1628 Grilles Registers & Diffusers	0	EA	\$175.00	\$0		
1629 Jet Nozzle Diffusers	18	EA	\$200.00	\$4,000		
1630 Linear Diffusers	0	LF	\$100.00	\$0		
1631						
1632 <u>Air Handling Unit [AHU-22] [Departures]</u>	14,000	CFM	\$5.00	\$70,000		

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1633	Supply Fan					Included	
1634	Variable Frequency Drive (40 HP)	1	EA	\$10,000.00	\$10,000		
1635	Air to Air Heat Exchanger					Not Included	
1636	Copper Tube/Aluminum Fins					Included	
1637	Hot Water Pre-Heating Coil					Not Included	
1638	Hot Water Heating Coil					Included	
1639	Chilled Water Cooling Coil					Included	
1640	Pre & Final Filters					Included	
1641	Carbon Filters					Not Included	
1966	Sound Traps	28,000	CFM	\$0.25	\$7,000		
1643	Humidification					Not Included	
1644	<u>Return Fan</u>	27,400	CFM	\$0.75	\$21,000		
1645	Variable Frequency Drive (30 HP)	1	EA	\$7,500.00	\$8,000		
1646	Galvanized Ductwork	22,400	LBS	\$8.50	\$190,000		
1647	Acoustic Lining & Thermal Insulation	13,600	SF	\$3.50	\$48,000		
1648	Volume Dampers					Included	
1649	VAV Boxes	0	EA	\$1,500.00	\$0		
1650	Reheat Coils	0	EA	\$1,500.00	\$0		
1651	Air Flow Measuring Station	0	EA	\$500.00	\$0		
1652	Motorized Dampers	0	SF	\$95.00	\$0		
1653	Fire Smoke Dampers	0	SF	\$350.00	\$0		
1654	Fire Dampers	34	SF	\$120.00	\$4,000		
1655	Grilles Registers & Diffusers	0	EA	\$175.00	\$0		
1656	Jet Nozzle Diffusers	26	EA	\$200.00	\$5,000		
1657	Linear Diffusers	0	LF	\$100.00	\$0		
1658							
1659	<u>Air Handling Unit [AHU-23] [Departures]</u>	29,995	CFM	\$5.00	\$150,000		
1660	Supply Fan					Included	
1661	Variable Frequency Drive (75 HP)	1	EA	\$15,000.00	\$15,000		
1662	Air to Air Heat Exchanger					Not Included	
1663	Copper Tube/Aluminum Fins					Included	
1664	Hot Water Pre-Heating Coil					Not Included	
1665	Hot Water Heating Coil					Included	
1666	Chilled Water Cooling Coil					Included	
1667	Pre & Final Filters					Included	
1668	Carbon Filters					Not Included	
1966	Sound Traps	59,990	CFM	\$0.25	\$15,000		
1670	Humidification					Not Included	
1671	<u>Return Fan</u>	40,400	CFM	\$0.75	\$30,000		
1672	Variable Frequency Drive (50 HP)	1	EA	\$10,000.00	\$10,000		
1673	Galvanized Ductwork	30,800	LBS	\$8.50	\$262,000		
1674	Acoustic Lining & Thermal Insulation	11,600	SF	\$3.50	\$41,000		
1675	Volume Dampers					Included	

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals	
S	H32	1676	VAV Boxes	4	EA	\$1,500.00	\$6,000	
			Add HW Coils for VAV Boxes	4	EA	\$1,000.00	\$4,000	
		1677	Reheat Coils	0	EA	\$1,500.00	\$0	
		1678	Air Flow Measuring Station	0	EA	\$500.00	\$0	
		1679	Motorized Dampers	0	SF	\$95.00	\$0	
		1680	Fire Smoke Dampers	0	SF	\$350.00	\$0	
		1681	Fire Dampers	73	SF	\$120.00	\$9,000	
		1682	Grilles Registers & Diffusers	120	EA	\$175.00	\$21,000	
		1683	Jet Nozzle Diffusers	0	EA	\$200.00	\$0	
		1684	Linear Diffusers	0	LF	\$100.00	\$0	
		1685						
		1686	<u>Air Handling Unit [AHU-24] [Arrivals]</u>	28,000	CFM	\$5.00	\$140,000	
		1687	Supply Fan					Included
		1688	Variable Frequency Drive (75 HP)	1	EA	\$15,000.00	\$15,000	
		1689	Air to Air Heat Exchanger					Not Included
		1690	Copper Tube/Aluminum Fins					Included
		1691	Hot Water Pre-Heating Coil					Not Included
		1692	Hot Water Heating Coil					Included
		1693	Chilled Water Cooling Coil					Included
		1694	Pre & Final Filters					Included
		1695	Carbon Filters					Not Included
		1696	Sound Traps	56,000	CFM	\$0.25	\$14,000	
		1697	Humidification					Not Included
		1698	<u>Return Fan</u>	58,400	CFM	\$0.75	\$44,000	
		1699	Variable Frequency Drive (60 HP)	1	EA	\$15,000.00	\$15,000	
		1700	Galvanized Ductwork	40,000	LBS	\$8.50	\$340,000	
		1701	Acoustic Lining & Thermal Insulation	17,400	SF	\$3.50	\$61,000	
		1702	Volume Dampers					Included
1703	VAV Boxes	0	EA	\$1,500.00	\$0			
1704	Reheat Coils	0	EA	\$1,500.00	\$0			
1705	Air Flow Measuring Station	0	EA	\$500.00	\$0			
1706	Motorized Dampers	0	SF	\$95.00	\$0			
S	H34	1707	Fire Smoke Dampers				w/ Below	
		1708	Fire Dampers	68	SF	\$120.00	\$8,000	
		1709	Grilles Registers & Diffusers	28	EA	\$175.00	\$5,000	
		1710	Jet Nozzle Diffusers	0	EA	\$200.00	\$0	
		1711	Linear Diffusers	56	LF	\$100.00	\$6,000	
		1712						
		1713	<u>Air Handling Unit [AHU-25] [Arrivals]</u>	23,000	CFM	\$5.00	\$115,000	
		1714	Supply Fan					Included
		1715	Variable Frequency Drive (50 HP)	1	EA	\$10,000.00	\$10,000	
		1716	Air to Air Heat Exchanger					Not Included
		1717	Copper Tube/Aluminum Fins					Included

**Turner** ≡ Aviation

JetBlue Terminal 5  
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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1718	Hot Water Pre-Heating Coil					Not Included	
1719	Hot Water Heating Coil					Included	
1720	Chilled Water Cooling Coil					Included	
1721	Pre & Final Filters					Included	
1722	Carbon Filters					Not Included	
1966	Sound Traps	46,000	CFM	\$0.25	\$12,000		
1724	Humidification					Not Included	
1725	<u>Return Fan</u>	59,990	CFM	\$0.75	\$45,000		
1726	Variable Frequency Drive (60 HP)	1	EA	\$15,000.00	\$15,000		
1727	Galvanized Ductwork	42,100	LBS	\$8.50	\$358,000		
1728	Acoustic Lining & Thermal Insulation	17,600	SF	\$3.50	\$62,000		
1729	Volume Dampers					Included	
1730	VAV Boxes	0	EA	\$1,500.00	\$0		
1731	Reheat Coils	1	EA	\$1,500.00	\$2,000		
1732	Air Flow Measuring Station	0	EA	\$500.00	\$0		
1733	Motorized Dampers	16	SF	\$95.00	\$2,000		
1734	Fire Smoke Dampers					w/ Below	
1735	Fire Dampers	56	SF	\$120.00	\$7,000		
1736	Grilles Registers & Diffusers	24	EA	\$175.00	\$4,000		
1737	Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
1738	Linear Diffusers	0	LF	\$100.00	\$0		
1739							
1740	<u>Air Handling Unit [AHU-26] [Arrivals]</u>	29,995	CFM	\$5.00	\$150,000		
1741	Supply Fan					Included	
1742	Variable Frequency Drive (75 HP)	1	EA	\$15,000.00	\$15,000		
1743	Air to Air Heat Exchanger					Not Included	
1744	Copper Tube/Aluminum Fins					Included	
1745	Hot Water Pre-Heating Coil					Not Included	
1746	Hot Water Heating Coil					Included	
1747	Chilled Water Cooling Coil					Included	
1748	Pre & Final Filters					Included	
1749	Carbon Filters					Not Included	
1750	Sound Traps	59,990	CFM	\$0.25	\$15,000		
1751	Humidification					Not Included	
1752	<u>Return Fan</u>	59,990	CFM	\$0.75	\$45,000		
1753	Variable Frequency Drive (60 HP)	1	EA	\$15,000.00	\$15,000		
1754	Galvanized Ductwork	27,800	LBS	\$8.50	\$236,000		
1755	Acoustic Lining & Thermal Insulation	10,700	SF	\$3.50	\$37,000		
1756	Volume Dampers					Included	
1757	VAV Boxes	0	EA	\$1,500.00	\$0		
1758	Reheat Coils	0	EA	\$1,500.00	\$0		
1759	Air Flow Measuring Station	0	EA	\$500.00	\$0		
1760	Motorized Dampers	0	SF	\$95.00	\$0		

S H34

**Turner** ≡ Aviation

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	H34						
	1761 Fire Smoke Dampers					w/ Below	
	1762 Fire Dampers	73	SF	\$120.00	\$9,000		
	1763 Grilles Registers & Diffusers	12	EA	\$175.00	\$2,000		
	1764 Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
	1765 Linear Diffusers	0	LF	\$100.00	\$0		
	1766						
	1767 <u>Air Handling Unit [AHU-27] [Departures]</u>	23,000	CFM	\$5.00	\$115,000		
	1768 Supply Fan					Included	
	1769 Variable Frequency Drive (60 HP)	1	EA	\$15,000.00	\$15,000		
	1770 Air to Air Heat Exchanger					Not Included	
	1771 Copper Tube/Aluminum Fins					Included	
	1772 Hot Water Pre-Heating Coil					Not Included	
	1773 Hot Water Heating Coil					Included	
	1774 Chilled Water Cooling Coil					Included	
	1775 Pre & Final Filters					Included	
	1776 Carbon Filters					Not Included	
	1966 Sound Traps	46,000	CFM	\$0.25	\$12,000		
	1778 Humidification					Not Included	
	1779 <u>Return Fan</u>	40,000	CFM	\$0.75	\$30,000		
	1780 Variable Frequency Drive (40 HP)	1	EA	\$10,000.00	\$10,000		
	1781 Galvanized Ductwork	14,100	LBS	\$8.50	\$120,000		
	1782 Acoustic Lining & Thermal Insulation	6,200	SF	\$3.50	\$22,000		
	1783 Volume Dampers					Included	
	1784 VAV Boxes	0	EA	\$1,500.00	\$0		
	1785 Reheat Coils	0	EA	\$1,500.00	\$0		
	1786 Air Flow Measuring Station	0	EA	\$500.00	\$0		
	1787 Motorized Dampers	0	SF	\$95.00	\$0		
	1788 Fire Smoke Dampers	0	SF	\$350.00	\$0		
	1789 Fire Dampers	56	SF	\$120.00	\$7,000		
	1790 Grilles Registers & Diffusers	0	EA	\$175.00	\$0		
	1791 Jet Nozzle Diffusers	30	EA	\$200.00	\$6,000		
	1792 Linear Diffusers	0	LF	\$100.00	\$0		
	1793						
	1794 <u>Air Handling Unit [AHU-28] [Arrivals]</u>	29,995	CFM	\$5.00	\$150,000		
	1795 Supply Fan					Included	
	1796 Variable Frequency Drive (75 HP)	1	EA	\$15,000.00	\$15,000		
	1797 Air to Air Heat Exchanger					Not Included	
	1798 Copper Tube/Aluminum Fins					Included	
	1799 Hot Water Pre-Heating Coil					Not Included	
	1800 Hot Water Heating Coil					Included	
	1801 Chilled Water Cooling Coil					Included	
	1802 Pre & Final Filters					Included	
	1803 Carbon Filters					Not Included	

**Turner** ≡ Aviation

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	1966 Sound Traps	59,990	CFM	\$0.25	\$15,000		
	1805 Humidification				Not Included		
	1806 <u>Return Fan</u>	29,995	CFM	\$0.75	\$22,000		
	1807 Variable Frequency Drive (20 HP)	1	EA	\$7,500.00	\$8,000		
	1808 Galvanized Ductwork	39,500	LBS	\$8.50	\$336,000		
	1809 Acoustic Lining & Thermal Insulation	26,300	SF	\$3.50	\$92,000		
	1810 Volume Dampers				Included		
	1811 VAV Boxes	18	EA	\$1,500.00	\$27,000		
S	H32 Add HW Coils for VAV Boxes	18	EA	\$1,000.00	\$18,000		
	1812 Reheat Coils	0	EA	\$1,500.00	\$0		
	1813 Air Flow Measuring Station	0	EA	\$500.00	\$0		
	1814 Motorized Dampers	0	SF	\$95.00	\$0		
S	H34 1815 Fire Smoke Dampers				w/ Below		
	1816 Fire Dampers	73	SF	\$120.00	\$9,000		
	1817 Grilles Registers & Diffusers	120	EA	\$175.00	\$21,000		
	1818 Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
	1819 Linear Diffusers	0	LF	\$100.00	\$0		
	1820						
	1821 <u>Air Handling Unit [AHU-29] [Departures]</u>	29,995	CFM	\$5.00	\$150,000		
	1822 Supply Fan				Included		
	1823 Variable Frequency Drive (75 HP)	1	EA	\$15,000.00	\$15,000		
	1824 Air to Air Heat Exchanger				Not Included		
	1825 Copper Tube/Aluminum Fins				Included		
	1826 Hot Water Pre-Heating Coil				Not Included		
	1827 Hot Water Heating Coil				Included		
	1828 Chilled Water Cooling Coil				Included		
	1829 Pre & Final Filters				Included		
	1830 Carbon Filters				Not Included		
	1966 Sound Traps	59,990	CFM	\$0.25	\$15,000		
	1832 Humidification				Not Included		
	1833 <u>Return Fan</u>	59,990	CFM	\$0.75	\$45,000		
	1834 Variable Frequency Drive (60 HP)	1	EA	\$15,000.00	\$15,000		
	1835 Galvanized Ductwork	30,500	LBS	\$8.50	\$259,000		
	1836 Acoustic Lining & Thermal Insulation	12,700	SF	\$3.50	\$44,000		
	1837 Volume Dampers				Included		
	1838 VAV Boxes	0	EA	\$1,500.00	\$0		
	1839 Reheat Coils	0	EA	\$1,500.00	\$0		
	1840 Air Flow Measuring Station	0	EA	\$500.00	\$0		
	1841 Motorized Dampers	0	SF	\$95.00	\$0		
	1842 Fire Smoke Dampers	0	SF	\$350.00	\$0		
	1843 Fire Dampers	73	SF	\$120.00	\$9,000		
	1844 Grilles Registers & Diffusers	0	EA	\$175.00	\$0		

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Building Area: 639,470 GSF

Rank Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1845 Jet Nozzle Diffusers	24	EA	\$200.00	\$5,000		
1846 Linear Diffusers	112	LF	\$100.00	\$11,000		
1847						
1848 <u>Air Handling Unit [AHU-30] [Departures]</u>	25,000	CFM	\$5.00	\$125,000		
1849 Supply Fan				Included		
1850 Variable Frequency Drive (60 HP)	1	EA	\$15,000.00	\$15,000		
1851 Air to Air Heat Exchanger				Not Included		
1852 Copper Tube/Aluminum Fins				Included		
1853 Hot Water Pre-Heating Coil				Not Included		
1854 Hot Water Heating Coil				Included		
1855 Chilled Water Cooling Coil				Included		
1856 Pre & Final Filters				Included		
1857 Carbon Filters				Not Included		
1966 Sound Traps	50,000	CFM	\$0.25	\$13,000		
1859 Humidification				Not Included		
1860 <u>Return Fan</u>	48,200	CFM	\$0.75	\$36,000		
1861 Variable Frequency Drive (50 HP)	1	EA	\$10,000.00	\$10,000		
1862 Galvanized Ductwork	34,600	LBS	\$8.50	\$294,000		
1863 Acoustic Lining & Thermal Insulation	14,300	SF	\$3.50	\$50,000		
1864 Volume Dampers				Included		
1865 VAV Boxes	0	EA	\$1,500.00	\$0		
1866 Reheat Coils	2	EA	\$1,500.00	\$3,000		
1867 Air Flow Measuring Station	2	EA	\$500.00	\$1,000		
1868 Motorized Dampers	30	SF	\$95.00	\$3,000		
1869 Fire Smoke Dampers	0	SF	\$350.00	\$0		
1870 Fire Dampers	61	SF	\$120.00	\$7,000		
1871 Grilles Registers & Diffusers	2	EA	\$175.00	\$0		
1872 Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
1873 Linear Diffusers	380	LF	\$100.00	\$38,000		
1874						
1875 <u>Air Handling Unit [AHU-31] [Departures]</u>	18,000	CFM	\$5.00	\$90,000		
1876 Supply Fan				Included		
1877 Variable Frequency Drive (40 HP)	1	EA	\$10,000.00	\$10,000		
1878 Air to Air Heat Exchanger				Not Included		
1879 Copper Tube/Aluminum Fins				Included		
1880 Hot Water Pre-Heating Coil				Not Included		
1881 Hot Water Heating Coil				Included		
1882 Chilled Water Cooling Coil				Included		
1883 Pre & Final Filters				Included		
1884 Carbon Filters				Not Included		
1966 Sound Traps	36,000	CFM	\$0.25	\$9,000		
1886 Humidification				Not Included		
1887 <u>Return Fan</u>	34,600	CFM	\$0.75	\$26,000		

**Turner** ≡ Aviation

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1888	Variable Frequency Drive (40 HP)	1	EA	\$10,000.00	\$10,000		
1889	Galvanized Ductwork	27,300	LBS	\$8.50	\$232,000		
1890	Acoustic Lining & Thermal Insulation	11,100	SF	\$3.50	\$39,000		
1891	Volume Dampers					Included	
1892	VAV Boxes	0	EA	\$1,500.00	\$0		
1893	Reheat Coils	4	EA	\$1,500.00	\$6,000		
1894	Air Flow Measuring Station	4	EA	\$500.00	\$2,000		
1895	Motorized Dampers	22	SF	\$95.00	\$2,000		
1896	Fire Smoke Dampers	0	SF	\$350.00	\$0		
1897	Fire Dampers	44	SF	\$120.00	\$5,000		
1898	Grilles Registers & Diffusers	0	EA	\$175.00	\$0		
1899	Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
1900	Linear Diffusers	268	LF	\$100.00	\$27,000		
1901							
1902	<u>Air Handling Unit (AHU-32) (Arrivals)</u>	24,000	CFM	\$5.00	\$120,000		
1903	Supply Fan					Included	
1904	Variable Frequency Drive (60 HP)	1	EA	\$15,000.00	\$15,000		
1905	Air to Air Heat Exchanger					Not Included	
1906	Copper Tube/Aluminum Fins					Included	
1907	Hot Water Pre-Heating Coil					Not Included	
1908	Hot Water Heating Coil					Included	
1909	Chilled Water Cooling Coil					Included	
1910	Pre & Final Filters					Included	
1911	Carbon Filters					Not Included	
1966	Sound Traps	48,000	CFM	\$0.25	\$12,000		
1913	Humidification					Not Included	
1914	<u>Return Fan</u>	49,600	CFM	\$0.75	\$37,000		
1915	Variable Frequency Drive (50 HP)	1	EA	\$10,000.00	\$10,000		
1916	Galvanized Ductwork	33,000	LBS	\$8.50	\$281,000		
1917	Acoustic Lining & Thermal Insulation	22,000	SF	\$3.50	\$77,000		
1918	Volume Dampers					Included	
1919	VAV Boxes	30	EA	\$1,500.00	\$45,000		
S H32	Add HW Coils for VAV Boxes	30	EA	\$1,000.00	\$30,000		
	Reheat Coils	0	EA	\$1,500.00	\$0		
	Air Flow Measuring Station	0	EA	\$500.00	\$0		
	Motorized Dampers	0	SF	\$95.00	\$0		
S H34	Fire Smoke Dampers					w/ Below	
	Fire Dampers	58	SF	\$120.00	\$7,000		
	Grilles Registers & Diffusers	96	EA	\$175.00	\$17,000		
	Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
	Linear Diffusers	0	LF	\$100.00	\$0		
1928							

**Turner**  Aviation

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1929	<u>Air Handling Unit [AHU-33] [Arrivals]</u>	27,000	CFM	\$5.00	\$135,000		
1930	Supply Fan				Included		
1931	Variable Frequency Drive (60 HP)	1	EA	\$15,000.00	\$15,000		
1932	Air to Air Heat Exchanger				Not Included		
1933	Copper Tube/Aluminum Fins				Included		
1934	Hot Water Pre-Heating Coil				Not Included		
1935	Hot Water Heating Coil				Included		
1936	Chilled Water Cooling Coil				Included		
1937	Pre & Final Filters				Included		
1938	Carbon Filters				Not Included		
1966	Sound Traps	54,000	CFM	\$0.25	\$14,000		
1940	Humidification				Not Included		
1941	<u>Return Fan</u>	51,400	CFM	\$0.75	\$39,000		
1942	Variable Frequency Drive (60 HP)	1	EA	\$15,000.00	\$15,000		
1943	Galvanized Ductwork	34,300	LBS	\$8.50	\$292,000		
1944	Acoustic Lining & Thermal Insulation	15,100	SF	\$3.50	\$53,000		
1945	Volume Dampers				Included		
1946	VAV Boxes	0	EA	\$1,500.00	\$0		
1947	Reheat Coils	0	EA	\$1,500.00	\$0		
1948	Air Flow Measuring Station	0	EA	\$500.00	\$0		
1949	Motorized Dampers	0	SF	\$95.00	\$0		
S	H34	1950	Fire Smoke Dampers			w/ Below	
		1951	Fire Dampers	65	SF	\$120.00	\$8,000
		1952	Grilles Registers & Diffusers	34	EA	\$175.00	\$6,000
		1953	Jet Nozzle Diffusers	0	EA	\$200.00	\$0
		1954	Linear Diffusers	24	LF	\$100.00	\$2,000
		1955					
		1956	<u>Air Handling Unit [AHU-34] [Departures]</u>	20,000	CFM	\$5.00	\$100,000
		1957	Supply Fan				Included
		1958	Variable Frequency Drive (50 HP)	1	EA	\$10,000.00	\$10,000
		1959	Air to Air Heat Exchanger				Not Included
		1960	Copper Tube/Aluminum Fins				Included
		1961	Hot Water Pre-Heating Coil				Not Included
		1962	Hot Water Heating Coil				Included
		1963	Chilled Water Cooling Coil				Included
		1964	Pre & Final Filters				Included
		1965	Carbon Filters				Not Included
		1966	Sound Traps	40,000	CFM	\$0.25	\$10,000
		1967	Humidification				Not Included
		1968	<u>Return Fan</u>	27,400	CFM	\$0.75	\$21,000
		1969	Variable Frequency Drive (30 HP)	1	EA	\$7,500.00	\$8,000
		1970	Galvanized Ductwork	28,000	LBS	\$8.50	\$238,000
		1971	Acoustic Lining & Thermal Insulation	18,200	SF	\$3.50	\$64,000

**Turner** ≡ Aviation

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	1972 Volume Dampers				Included		
	1973 VAV Boxes	19	EA	\$1,500.00	\$29,000		
S	H32 Add HW Coils for VAV Boxes	19	EA	\$1,000.00	\$19,000		
	1974 Reheat Coils	0	EA	\$1,500.00	\$0		
	1975 Air Flow Measuring Station	0	EA	\$500.00	\$0		
	1976 Motorized Dampers	0	SF	\$95.00	\$0		
	1977 Fire Smoke Dampers	0	SF	\$350.00	\$0		
	1978 Fire Dampers	48	SF	\$120.00	\$6,000		
	1979 Grilles Registers & Diffusers	80	EA	\$175.00	\$14,000		
	1980 Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
	1981 Linear Diffusers	0	LF	\$100.00	\$0		
	1982						
	1983 <u>Air Handling Unit [AHU-35] [Departures]</u>	21,000	CFM	\$5.00	\$105,000		
	1984 Supply Fan				Included		
	1985 Variable Frequency Drive (50 HP)	1	EA	\$10,000.00	\$10,000		
	1986 Air to Air Heat Exchanger				Not Included		
	1987 Copper Tube/Aluminum Fins				Included		
	1988 Hot Water Pre-Heating Coil				Not Included		
	1989 Hot Water Heating Coil				Included		
	1990 Chilled Water Cooling Coil				Included		
	1991 Pre & Final Filters				Included		
	1992 Carbon Filters				Not Included		
	1993 Sound Traps	42,000	CFM	\$0.25	\$11,000		
	1994 Humidification				Not Included		
	1995 <u>Return Fan</u>	41,400	CFM	\$0.75	\$31,000		
	1996 Variable Frequency Drive (50 HP)	1	EA	\$10,000.00	\$10,000		
	1997 Galvanized Ductwork	36,200	LBS	\$8.50	\$308,000		
	1998 Acoustic Lining & Thermal Insulation	14,400	SF	\$3.50	\$50,000		
	1999 Volume Dampers				Included		
	2000 VAV Boxes	0	EA	\$1,500.00	\$0		
	2001 Reheat Coils	4	EA	\$1,500.00	\$6,000		
	2002 Air Flow Measuring Station	4	EA	\$500.00	\$2,000		
	2003 Motorized Dampers	25	SF	\$95.00	\$2,000		
	2004 Fire Smoke Dampers	0	SF	\$350.00	\$0		
	2005 Fire Dampers	51	SF	\$120.00	\$6,000		
	2006 Grilles Registers & Diffusers	0	EA	\$175.00	\$0		
	2007 Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
	2008 Linear Diffusers	228	LF	\$100.00	\$23,000		
	2009						
	2010 <u>Air Handling Unit [AHU-36] [Arrivals]</u>	22,000	CFM	\$5.00	\$110,000		
	2011 Supply Fan				Included		
	2012 Variable Frequency Drive (50 HP)	1	EA	\$10,000.00	\$10,000		

**Turner** ≡ Aviation

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2013	Air to Air Heat Exchanger				Not Included		
2014	Copper Tube/Aluminum Fins				Included		
2015	Hot Water Pre-Heating Coil				Not Included		
2016	Hot Water Heating Coil				Included		
2017	Chilled Water Cooling Coil				Included		
2018	Pre & Final Filters				Included		
2019	Carbon Filters				Not Included		
2020	Sound Traps	44,000	CFM	\$0.25	\$11,000		
2021	Humidification				Not Included		
2022	<u>Return Fan</u>	38,800	CFM	\$0.75	\$29,000		
2023	Variable Frequency Drive (40 HP)	1	EA	\$15,000.00	\$15,000		
2024	Galvanized Ductwork	32,000	LBS	\$8.50	\$272,000		
2025	Acoustic Lining & Thermal Insulation	13,200	SF	\$3.50	\$46,000		
2026	Volume Dampers				Included		
2027	VAV Boxes	0	EA	\$1,500.00	\$0		
2028	Reheat Coils	0	EA	\$1,500.00	\$0		
2029	Air Flow Measuring Station	0	EA	\$500.00	\$0		
2030	Motorized Dampers	0	SF	\$95.00	\$0		
S H34 2031	Fire Smoke Dampers				w/ Below		
2032	Fire Dampers	53	SF	\$120.00	\$6,000		
2033	Grilles Registers & Diffusers	0	EA	\$175.00	\$0		
2034	Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
2035	Linear Diffusers	220	LF	\$100.00	\$22,000		
2036							
2037	<u>Air Handling Unit [AHU-37] [Arrivals]</u>	20,000	CFM	\$5.00	\$100,000		
2038	Supply Fan				Included		
2039	Variable Frequency Drive (50 HP)	1	EA	\$10,000.00	\$10,000		
2040	Air to Air Heat Exchanger				Not Included		
2041	Copper Tube/Aluminum Fins				Included		
2042	Hot Water Pre-Heating Coil				Not Included		
2043	Hot Water Heating Coil				Included		
2044	Chilled Water Cooling Coil				Included		
2045	Pre & Final Filters				Included		
2046	Carbon Filters				Not Included		
2047	Sound Traps	40,000	CFM	\$0.25	\$10,000		
2048	Humidification				Not Included		
2049	<u>Return Fan</u>	35,800	CFM	\$0.75	\$27,000		
2050	Variable Frequency Drive (40 HP)	1	EA	\$10,000.00	\$10,000		
2051	Galvanized Ductwork	27,400	LBS	\$8.50	\$233,000		
2052	Acoustic Lining & Thermal Insulation	18,200	SF	\$3.50	\$64,000		
2053	Volume Dampers				Included		
2054	VAV Boxes	29	EA	\$1,500.00	\$44,000		
S H32	Add HW Coils for VAV Boxes	39	EA	\$1,000.00	\$39,000		

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	2055 Reheat Coils	0	EA	\$1,500.00	\$0		
	2056 Air Flow Measuring Station	0	EA	\$500.00	\$0		
	2057 Motorized Dampers	0	SF	\$95.00	\$0		
S	H34	2058 Fire Smoke Dampers			w/ Below		
	2059 Fire Dampers	48	SF	\$120.00	\$6,000		
	2060 Grilles Registers & Diffusers	80	EA	\$175.00	\$14,000		
	2061 Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
	2062 Linear Diffusers	32	LF	\$100.00	\$3,000		
	2063						
	2064 <u>Air Handling Unit (AHU-39) (Ramp Control)</u>	8,000	CFM	\$4.00	\$32,000		
	2065 Supply Fan				Included		
	2066 Variable Frequency Drive (20 HP)	1	EA	\$7,500.00	\$8,000		
	2067 Air to Air Heat Exchanger				Not Included		
	2068 Copper Tube/Aluminum Fins				Included		
	2069 Hot Water Pre-Heating Coil				Not Included		
	2070 Hot Water Heating Coil				Included		
	2071 Chilled Water Cooling Coil				Included		
	2072 Pre & Final Filters				Included		
	2073 Carbon Filters				Not Included		
	2074 Sound Traps	16,000	CFM	\$0.25	\$4,000		
	2075 Humidification				Not Included		
	2076 <u>Return Fan</u>	6,000	CFM	\$1.00	\$6,000		
	2077 Variable Frequency Drive (5 HP)	1	EA	\$2,500.00	\$3,000		
	2078 Galvanized Ductwork	8,300	LBS	\$8.50	\$71,000		
	2079 Acoustic Lining & Thermal Insulation	5,533	SF	\$3.50	\$19,000		
	2080 Volume Dampers				Included		
	2081 VAV Boxes	0	EA	\$1,500.00	\$0		
	2082 Reheat Coils	0	EA	\$1,500.00	\$0		
	2083 Air Flow Measuring Station	0	EA	\$500.00	\$0		
	2084 Motorized Dampers	0	SF	\$95.00	\$0		
	2085 Fire Smoke Dampers	0	SF	\$350.00	\$0		
	2086 Fire Dampers	19	SF	\$120.00	\$2,000		
	2087 Grilles Registers & Diffusers	16	EA	\$175.00	\$3,000		
	2088 Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
	2089 Linear Diffusers	72	LF	\$100.00	\$7,000		
	2090 Louvers	18	SF	\$80.00	\$1,000		
S	H34	Fire Smoke Dampers (Shown on drawings)	1,157	SF	\$350.00	405,000	
S	H34	Fire Smoke Dampers (Not shown on drawings)	1,157	SF	\$350.00	405,000	
S	H218	<u>Add AHU Ductwork &amp; VAV's Serving Telecom Closets.</u>					
S	H218	Galvanized Ductwork	1,200	LBS	\$8.50	\$10,000	
S	H218	Acoustic Lining & Thermal Insulation	800	SF	\$3.50	\$3,000	
S	H218	Volume Dampers				Included	

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	H218 VAV Boxes	8	EA	\$1,500.00	\$12,000		
S	H218 Fire Smoke Dampers	48	SF	\$350.00	\$17,000		
S	H218 Fire Dampers	0	SF	\$120.00	\$0		
S	H218 Grilles Registers & Diffusers	8	EA	\$0.00	\$0		
V	H129 Delete Sound Traps	(232,995)	CFM	\$0.25	(58,000)		
V	H130 Fire Dampers (areas where roof is higher than 20')	(1,000)	SF	\$120.00	(120,000)		
V	H131B <u>Delete all Linear Diffusers</u>						
V	H131B Grilles Registers & Diffusers	(1,268)	EA	\$175.00	(222,000)		
V	H131B Jet Nozzle Diffusers	(139)	EA	\$200.00	(28,000)		
V	H131B Linear Diffusers	(5,218)	LF	\$100.00	(522,000)		
V	H131B Galvanized Ductwork (plenums)	(23,481)	LBS	\$8.50	(200,000)		
V	H131B Grilles Registers & Diffusers(shown)	1,440	EA	\$175.00	252,000		
V	H131B Grilles Registers & Diffusers (allowance)	500	EA	\$175.00	88,000		
V	H131B Galvanized Ductwork (allowance for additional diffusers)	12,500	LBS	\$8.50	106,000		
V	H131B Jet Nozzle Diffusers	139	EA	\$200.00	28,000		
V	H131B Linear Diffusers	0	LF	\$100.00	0		
V	H131B Galvanized Ductwork (plenums)	0	LBS	\$8.50	0		
V	H131B Galvanized Ductwork (For 86 diffusers in the center of the Hold Rooms)	8,600	LBS	\$8.50	73,000		
V	H131B Ductwork Insulation	5,700	SF	\$3.50	20,000		
V	H131B Architectural Return Air Openings (14 Sq. Ft. per structural bay) (tape & paint only - no grille)				No Impact		
V	H131B Architectural Return Air Openings (5 Sq. Ft. per structural bay) (tape & paint only - no grille)				No Impact		
V	H139 <u>AHU Ductwork &amp; VAV's Serving Telecom Closet</u>						
V	H139 Galvanized Ductwork				Not Required		
V	H139 Acoustic Lining & Thermal Insulation				Not Required		
V	H139 Volume Dampers				Not Required		
V	H139 VAV Boxes				Not Required		
V	H139 Fire Smoke Dampers				Not Required		
V	H139 Fire Dampers				Not Required		
V	H139 Grilles Registers & Diffusers				Not Required		
	2091						
	2092 <u>Fan Coil Units</u>						
	2093						
V	H147 2094 <u>Fan Coil Units [FCU-XX-XX] [Custom AHU - 4 Pipe - 1000 CFM each]</u>	(20)	EA	\$3,500.00	(70,000)		
V	H147 2095 Galvanized Ductwork				Not Included		
V	H147 2096 Acoustic Lining & Thermal Insulation				Not Included		
V	H147 2097 Motorized Dampers				Not Included		
V	H147 2098 Fire Smoke Dampers				Not Included		
V	H147 2099 Volume Dampers				Not Included		
V	H147 2100 Registers, Grilles & Diffusers				Not Included		
V	H147 2101 Linear Diffusers				Not Included		
	2102						
	2103 Heating & Ventilating Units						

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals	
S	H36	2104	H&V Units [F-1.01, 1.04 & 1.07] (Electrical substations) (21,600 cfm each) Use FA		64,800	CFM	\$1.25	\$81,000
		2105	Galvanized Ductwork		18,900	LBS	\$8.50	\$161,000
		2106	Ductwork Insulation		12,600	SF	\$3.50	\$44,000
		2107	Registers (10'x4')		3	EA	\$2,000.00	\$6,000
		2108	Back Draft Dampers		138	SF	\$80.00	\$11,000
		2109	Fire Dampers		420	SF	\$120.00	\$50,000
		2110	Fire Smoke Dampers					Not Included
		2111	Louvers		300	SF	\$80.00	\$24,000
		2112						
		2113	H&V Units [F-1.03 & 1.06] (South MER/Main EM Switch Rm) (2,000 cfm each)		4,000	CFM	\$2.50	\$10,000
		2114	Galvanized Ductwork		1,700	LBS	\$8.50	\$14,000
		2115	Ductwork Insulation		1,100	SF	\$3.50	\$4,000
		2116	Registers		8	EA	\$150.00	\$1,000
		2117	Back Draft Dampers		32	SF	\$80.00	\$3,000
		2118	Fire Dampers		72	SF	\$120.00	\$9,000
		2119	Fire Smoke Dampers					Not Included
		2120	Louvers		72	SF	\$80.00	\$6,000
		2121						
		2122	Subtotal: Air Distribution					\$21,139,000
		2123						
		2124						
		2125	Supplemental A/C Systems					
		2126						
		2127	Dry Coolers [DAC-1 & 2] (40 tons each)		2	EA	\$20,000.00	\$40,000
		2128	Pump Package [PP-1] (204 GPM, 10 HP)		1	EA	\$25,000.00	\$25,000
		2129	Glycol Feed System		1	EA	\$15,000.00	\$15,000
		2130	Chemical Pot Feeder		1	EA	\$5,000.00	\$5,000
		2131	Expansion Tanks		1	EA	\$5,000.00	\$5,000
		2132	Air Separators		1	EA	\$5,000.00	\$5,000
		2133						
V	H133	2134	Data Center					
V	H133	2135	Dual Coil Chilled Water/Water-Cooled AC Unit (4 @ 15 TONS EACH)		3	EA	\$35,000.00	\$105,000
V	H133	2136	Electric Re-heat					Included
V	H133	2137	Humidification					Included
V	H133	2138	Galvanized Ductwork					Not Included
V	H133	2139	Ductwork Insulation					Not Included
V	H133	2140	Registers, Grilles & Diffusers					Not Included
V	H133	2141	Volume Dampers					Not Included
V	H133	2142	Fire Dampers					Not Included
V	H133	2143	Fire Smoke Dampers					Not Included
		2144						
		2145	Telecom Closets					

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	2146 Water-Cooled AC Unit (8 @ 3 TONS EACH)	8	EA	\$18,000.00	\$144,000		
	2147 Electric Re-heat				Included		
	2148 Humidification				Included		
	2149 Galvanized Ductwork	800	LBS	\$8.50	\$7,000		
	2150 Ductwork Insulation	500	SF	\$3.50	\$2,000		
	2151 Registers, Grilles & Diffusers	16	EA	\$200.00	\$3,000		
	2152 Volume Dampers				Not Included		
	2153 Fire Dampers				Not Included		
	2154 Fire Smoke Dampers				Not Included		
	2155						
	2156 <u>Control Center</u>						
	2157 Split System Air-Cooled AC Unit (2 @ 5 TONS EACH) (allowance)	2	EA	\$20,000.00	\$40,000		
	2158 Galvanized Ductwork				Not Included		
	2159 Ductwork Insulation				Not Included		
	2160 Registers, Grilles & Diffusers				Not Included		
	2161 Volume Dampers				Not Included		
	2162 Fire Dampers				Not Included		
	2163 Fire Smoke Dampers				Not Included		
	2164						
	2165 <u>Control Center UPS Room</u>						
	2166 Split System Air-Cooled AC Unit (1 @ 5 TONS EACH) (allowance)	1	EA	\$20,000.00	\$20,000		
	2167 Galvanized Ductwork				Not Included		
	2168 Ductwork Insulation				Not Included		
	2169 Registers, Grilles & Diffusers				Not Included		
	2170 Volume Dampers				Not Included		
	2171 Fire Dampers				Not Included		
	2172 Fire Smoke Dampers				Not Included		
	2173						
	2174 <u>Elevator Machine Rooms</u>						
S	H27 2175 Split System Air-Cooled AC Unit (4 @ 3 TONS EACH) (allowance)	(4)	EA	\$15,000.00	(60,000)		
	2176 Galvanized Ductwork				Not Included		
	2177 Ductwork Insulation				Not Included		
	2178 Registers, Grilles & Diffusers				Not Included		
	2179 Volume Dampers				Not Included		
	2180 Fire Dampers				Not Included		
	2181 Fire Smoke Dampers				Not Included		
	2182						
	2183 <u>Electrical Substations</u>				Not Included		
	2184						
	2185 Subtotal: Supplemental AC Systems					\$356,000	
	2186						
	2187						

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	2188 Ventilation						
	2189						
S	H27	<u>Transfer Fans (1 per elevator bank &amp; 1 per EMR - 8 @ 1500 cfm)</u>	8	EA	\$2,250.00	\$18,000	
S	H27	Motor Starters [.5HP]				Included	
S	H27	Galvanized Ductwork	800	LBS	\$8.50	\$7,000	
S	H27	Acoustic Lining & Thermal Insulation				Not Included	
S	H27	Motorized Dampers				Not Included	
S	H27	Fire Smoke Dampers (3 SF per Fan)	24	SF	\$350.00	\$8,000	
S	H27	Fire Dampers				Not Included	
S	H27	Volume Dampers				Not Included	
S	H27	Registers	8	EA	\$100.00	\$1,000	
S	H27	Local Thermostatic Controls	8	EA	\$400.00	\$3,000	
	2190 <u>Transfer Fans [TF-XX] [Electrical Closets] (8 @ 400 cfm)</u>	8	EA	\$1,500.00	\$12,000		
	2191 Motor Starters [.5HP]					Included	
	2192 Galvanized Ductwork	800	LBS	\$8.50	\$7,000		
	2193 Acoustic Lining & Thermal Insulation					Not Included	
	2194 Motorized Dampers					Not Included	
	2195 Fire Smoke Dampers					Not Included	
	2196 Fire Dampers					Not Included	
	2197 Volume Dampers					Not Included	
	2198 Registers, Grilles & Diffusers	16	EA	\$100.00	\$2,000		
	2199						
	2200 <u>Transfer Fans [TF-XX] [Copy Rooms] (6 @ 400 cfm)</u>	6	EA	\$1,500.00	\$9,000		
	2201 Motor Starters [.5HP]					Included	
	2202 Galvanized Ductwork	600	LBS	\$8.50	\$5,000		
	2203 Acoustic Lining & Thermal Insulation					Not Included	
	2204 Motorized Dampers					Not Included	
	2205 Fire Smoke Dampers					Not Included	
	2206 Fire Dampers					Not Included	
	2207 Volume Dampers					Not Included	
	2208 Registers, Grilles & Diffusers	12	EA	\$100.00	\$1,000		
	2209						
	2210 <u>Exhaust Fans [F-1.02, 1.05 &amp; 1.08] [Electrical Sub-Station] (4000 cfm each)</u>	12,000	CFM	\$1.25	\$15,000		
	2211 Motor Starters [1HP]	3	EA	\$750.00	\$2,000		
	2212 Galvanized Ductwork	3,000	LBS	\$8.50	\$26,000		
	2213 Acoustic Lining & Thermal Insulation					Not Included	
	2214 Transfer Grilles	96	SF	\$25.00	\$2,000		
	2215 Motorized Dampers	7	SF	\$8.50	\$60		
	2216 Fire Smoke Dampers					Not Included	
	2217 Fire Dampers	120	SF	\$120.00	\$14,000		
	2218 Volume Dampers					Not Included	
	2219 Registers, Grilles & Diffusers					Not Included	

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Building Area: 639,470 GSF

Rank Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2220 Exhaust Louver	24	SF	\$80.00	\$2,000		
2221						
2222 Exhaust Fans [EF-1.08 thru 1.19] [12 @ 4000 cfm each] (Outbound Baggage)	48,000	CFM	\$1.25	\$60,000		
2223 Motor Starters [2HP]	12	EA	\$750.00	\$9,000		
2224 Galvanized Ductwork	8,400	LBS	\$8.50	\$71,000		
2225 Acoustic Lining & Thermal Insulation					Not Included	
2226 Motorized Dampers					Not Included	
2227 Fire Smoke Dampers					Not Included	
2228 Back Draft Dampers	144	SF	\$50.00	\$7,000		
2229 Fire Dampers	144	SF	\$120.00	\$17,000		
2230 Volume Dampers					Included	
2231 Registers, Grilles & Diffusers	24	EA	\$150.00	\$4,000		
2232 Exhaust Louver	144	SF	\$80.00	\$12,000		
2233						
2234 Exhaust Fan [EF-1.29 thru 1.35] [7 @ 4500 cfm each] (Inbound Baggage)	31,500	CFM	\$1.25	\$39,000		
2235 Motor Starters [2HP]	7	EA	\$750.00	\$5,000		
2236 Galvanized Ductwork	700	LBS	\$8.50	\$6,000		
2237 Acoustic Lining & Thermal Insulation					Not Included	
2238 Motorized Dampers					Not Included	
2239 Fire Smoke Dampers					Not Included	
2240 Back Draft Dampers	84	SF	\$50.00	\$4,000		
2241 Fire Dampers	84	SF	\$120.00	\$10,000		
2242 Volume Dampers					Included	
2243 Registers, Grilles & Diffusers					Not Included	
2244 Exhaust Louver	84	SF	\$80.00	\$7,000		
2245						
2246 Exhaust Fans [EF-1.01 thru 1.07] [Arrivals Level East - Aircraft Work Areas] (397)	7	EA	\$1,500.00	\$11,000		
2247 Motor Starters					Included	
2248 Galvanized Ductwork	2,600	LBS	\$8.50	\$22,000		
2249 Acoustic Lining & Thermal Insulation					Not Included	
2250 Motorized Dampers					Not Included	
2251 Fire Smoke Dampers					Not Included	
2252 Back Draft Dampers	8	SF	\$50.00	\$400		
2253 Fire Dampers	8	SF	\$120.00	\$1,000		
2254 Volume Dampers					Included	
2255 Registers, Grilles & Diffusers	8	EA	\$8.50	\$100		
2256 Exhaust Louver	7	EA	\$500.00	\$4,000		
2257						
2258 Exhaust Fans [EF-1.20 thru 1.28] [Arrivals Level South - Maintenance Areas] (95)	9	EA	\$1,500.00	\$14,000		
2259 Motor Starters					Included	
2260 Galvanized Ductwork	8,000	LBS	\$8.50	\$68,000		
2261 Acoustic Lining & Thermal Insulation					Not Included	

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	2262 Motorized Dampers					Not Included	
	2263 Fire Smoke Dampers					Not Included	
	2264 Back Draft Dampers	42	SF	\$50.00	\$2,000		
	2265 Fire Dampers	42	SF	\$120.00	\$5,000		
	2266 Volume Dampers					Included	
	2267 Registers, Grilles & Diffusers	26	EA	\$150.00	\$4,000		
	2268 Exhaust Louver	42	SF	\$80.00	\$3,000		
	2269						
V	A122 Exhaust Fans [EF-1.39] [Locker room] (1100 cfm)	(1)	EA	\$1,500.00	(2,000)		
V	A122 Motor Starters					Included	
V	A122 Galvanized Ductwork	(500)	LBS	\$8.50	(4,000)		
V	A122 Acoustic Lining & Thermal Insulation					Not Included	
V	A122 Motorized Dampers					Not Included	
V	A122 Fire Smoke Dampers					Not Included	
V	A122 Back Draft Dampers	(2)	SF	\$50.00	(100)		
V	A122 Fire Dampers	(2)	SF	\$120.00	(200)		
V	A122 Volume Dampers					Included	
V	A122 Registers, Grilles & Diffusers	6	EA	\$150.00	1,000		
V	A122 Exhaust Louver	(2)	SF	\$80.00	(200)		
	2270 Exhaust Fans [EF-1.36 thru 1.41] [Arrivals Level North - Ramp Support Areas] (4f	6	EA	\$1,500.00	\$9,000		
	2271 Motor Starters					Included	
	2272 Galvanized Ductwork	4,800	LBS	\$8.50	\$41,000		
	2273 Acoustic Lining & Thermal Insulation					Not Included	
	2274 Motorized Dampers					Not Included	
	2275 Fire Smoke Dampers					Not Included	
	2276 Back Draft Dampers	18	SF	\$50.00	\$1,000		
	2277 Fire Dampers	18	SF	\$120.00	\$2,000		
	2278 Volume Dampers					Included	
	2279 Registers, Grilles & Diffusers	22	EA	\$150.00	\$3,000		
	2280 Exhaust Louver	18	SF	\$80.00	\$1,000		
	2281						
	2282 Exhaust Fans [EF-R.01 thru R.07, R.09 thru R.11 and R.13 thru R.17] [Concourse	24,675	CFM	\$4.00	\$99,000		
	2283 Motor Starters	15	EA	\$750.00	\$11,000		
	2284 Galvanized Ductwork	9,000	LBS	\$8.50	\$77,000		
	2285 Acoustic Lining & Thermal Insulation					Not Included	
	2286 Motorized Dampers					Not Included	
	2287 Fire Smoke Dampers					Not Included	
	2288 Back Draft Dampers	34	SF	\$50.00	\$2,000		
	2289 Fire Dampers	34	SF	\$120.00	\$4,000		
	2290 Volume Dampers					Included	
	2291 Registers, Grilles & Diffusers	90	EA	\$150.00	\$14,000		
	2292 Exhaust Louver					Not Included	

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2293							
2294	<u>Exhaust Fans (EF-R.08 and R.12)</u>	2	EA	\$2,500.00	\$5,000		
2295	Motor Starters	2	EA	\$750.00	\$2,000		
2296	Galvanized Ductwork	200	LBS	\$8.50	\$2,000		
2297	Acoustic Lining & Thermal Insulation				Not Included		
2298	Motorized Dampers				Not Included		
2299	Fire Smoke Dampers				Not Included		
2300	Back Draft Dampers	2	SF	\$50.00	\$100		
2301	Fire Dampers	2	SF	\$120.00	\$200		
2302	Volume Dampers				Included		
2303	Registers, Grilles & Diffusers	2	EA	\$150.00	\$300		
2304	Exhaust Louver				Not Included		
2305							
2306	<u>Smoke Exhaust Fans (SP-1 thru 14)</u>	208,000	CFM	\$1.00	\$208,000		
2307	Motor Starters	14	EA	\$750.00	\$11,000		
2308	Galvanized Ductwork	4,200	LBS	\$8.50	\$36,000		
2309	Acoustic Lining & Thermal Insulation				Not Included		
2310	Motorized Dampers	88	SF	\$95.00	\$8,000		
2311	Fire Smoke Dampers				Not Included		
2312	Back Draft Dampers				Not Included		
2313	Fire Dampers				Not Included		
2314	Volume Dampers				Not Included		
2315	Registers, Grilles & Diffusers				Not Included		
2316	Exhaust Louver				Not Included		
2317							
2318	<u>Man Cooler Fans (MC-1 thru 48) (3890 cfm each)</u>	186,720	CFM	\$1.25	\$233,000		
2319	Motor Starters	48	EA	\$750.00	\$36,000		
2320	Galvanized Ductwork				Not Included		
2321	Acoustic Lining & Thermal Insulation				Not Included		
2322	Motorized Dampers				Not Included		
2323	Fire Smoke Dampers				Not Included		
2324	Back Draft Dampers				Not Included		
2325	Fire Dampers				Not Included		
2326	Volume Dampers				Not Included		
2327	Registers, Grilles & Diffusers				Not Included		
2328	Exhaust Louver				Not Included		
2329							
S	E50	Add 2 Ventless Dryers	2	EA	\$1,000.00	\$2,000	
		2330 <u>Dishwasher Exhaust</u>				Not Included	
		2331 <u>Stair Pressurization Fans</u>				Not Included	
		2332					
		2333 Subtotal: Ventilation					\$1,321,660

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	2334						
	2335						
	2336 Concession Exhaust						
	2337 Exhaust Fan(EF-XX)				Not Included		
	2338 Motor Starters				Not Included		
	2339 Electrostatic Precipitator (Scrubber)				Not Included		
	2340 Black Iron Kitchen Exhaust Ductwork				Not Included		
	2341 Calcium Silicate Insulation				Not Included		
	2342 GWB Fire Rated Enclosure				Not Included		
	2343 Motorized Dampers				Not Included		
	2344 Fire Smoke Dampers				Not Included		
	2345 Volume Dampers				Not Included		
	2346 Registers, Grilles & Diffusers				Not Included		
	2347 Exhaust Louver				Not Included		
	2348						
	2349 Subtotal: Concession Exhaust					\$0	
	2350						
	2351						
	2352 Equipment Connections						
	2353						
S	H32	2354 VAV Piping Connection	190	EA	\$250.00	\$48,000	
S	H33	2354 Add 3 KW Duct Mounted Humidifer in Duct serving Data Center	1	EA	\$500.00	\$1,000	
V	H147	2355 FCU Piping Connection	(20)	EA	\$500.00	(10,000)	
		2356 Cabinet / Unit Heater Piping Connection				Included w/ Units	
		2357 AHU Connection	38	EA	\$10,000.00	\$380,000	
		2358 Dry Cooler Connection	2	EA	\$10,000.00	\$20,000	
		2359 Data Center AC Unit Connection	4	EA	\$10,000.00	\$40,000	
		2360 Telecom Closet AC Unit Connection	8	EA	\$5,000.00	\$40,000	
		2361 Heat Exchanger Connection	1	EA	\$10,000.00	\$10,000	
		2362 Pump Connection - 16" Piping to Pump	2	EA	\$7,500.00	\$15,000	
		2363 Pump Connection - 12" Piping to Pump	2	EA	\$7,500.00	\$15,000	
S		2364 Baseboard Heater Connection	(100)	EA	\$100.00	(10,000)	
		2365					
		2366 Subtotal: Equipment Connections				\$549,000	
		2367					
		2368					
		2369 Emergency Generator System					
		2370					
		2371 Emergency Generators				w/ Electrical	
		2372 Exhaust Flue and Muffler (install only )	1	LS	\$10,000.00	\$10,000	
		2373 Galvanized Ductwork				w/ Electrical	
		2374 Insulation				w/ Electrical	

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	2375 Motorized Dampers				w/ Electrical		
	2376 Fire/Fire Smoke Dampers				w/ Electrical		
	2377 Radiator Intake & Exhaust Sound Traps				w/ Electrical		
	2378 Intake & Exhaust Louvers				w/ Electrical		
	2379						
	2380 Subtotal: Emergency Generator System					\$10,000	
	2381						
	2382						
	2383 Fuel Oil System for Generators						
	2384				w/ Electrical		
	2385 Subtotal: Fuel Oil System for Generators					\$0	
	2386						
	2387						
	2388 Temporary Heating & Cooling Programs						
	2389				w/ General Conditions		
	2390 Subtotal: Temporary Heating & Cooling Programs					\$0	
	2391						
	2392						
	2393 Automatic Temperature Controls						
	2394 DDC Temperature Control System						
	2395 Engineering & Layout	1	LS	\$200,000.00	\$200,000		
	2396 Control Panels	1	LS	\$500,000.00	\$500,000		
	2397 Trunk Cabling	1	LS	\$300,000.00	\$300,000		
	2398 Computer Equipment & Programming	1	LS	\$150,000.00	\$150,000		
S	H28	2399 Control Points (allowance)					
	2400 BMS	4,000	Points	\$800.00	\$3,200,000		
S	H28	2401 Lighting Controls	1	EA	\$50,000.00	\$50,000	
S	H28	2402 Fire Alarm (Secondary Annunciation)	1	EA	\$50,000.00	\$50,000	
S	H28	2403 Power Management	1	EA	\$50,000.00	\$50,000	
S	H28	2404 Ramp Services	1	EA	\$50,000.00	\$50,000	
S	H28	2405 Terminal Information	1	EA	\$50,000.00	\$50,000	
S	H28	2406 Retail Metering	1	EA	\$50,000.00	\$50,000	
S	H28	2407 Transport Management (Verticle & Horizontal)	1	EA	\$50,000.00	\$50,000	
S	H28	2408 Baggage Handling Systems	1	EA	\$50,000.00	\$50,000	
	2409						
S	H24	Add Solenoid Valves Tied into BMS	35	Points	\$800.00	\$28,000	
S	H29	BMS for Energy Meter Connections @ Retail	100	Points	\$400.00	\$40,000	
S	H32	Add HW Coils to VAVs	190	Points	\$200.00	\$38,000	
S	H33	Add 3 KW Duct Mounted Humidifier in Duct Serving Data Center	4	Points	\$800.00	\$3,000	
	2410 Subtotal: Automatic Temperature Controls					\$4,859,000	
	2411						
	2412 Testing & Balancing						
	2413 Building	639,470	SF	\$0.15	\$96,000		

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2414							
2415	<b>Subtotal: Testing &amp; Balancing</b>					\$96,000	
2416							
2417	<b>Seismic &amp; Vibration Isolation</b>						
2418	Building	639,470	SF	\$0.25	\$160,000		
2419							
2420	<b>Subtotal: Seismic &amp; Vibration Isolation</b>					\$160,000	
2421							
2422	<b>Miscellaneous</b>						
V A87	Reduce North Concourse by 5040 SF - Building HVAC	(5,040)	GSF	\$30.00	(151,000)		
V A213	Delete SF @ North Floor	(5,690)	GSF	\$20.00	(114,000)		
2423	Independent (3rd party) Commissioning Agent					By Owner	
2424	Work with Owner Furnished Commissioning Agent					Included	
2425	Barometric Relief Vents For Elevator Shafts					Included	
2426	Barometric Relief Vents For Stairs					Included	
2427	Breaching/Flue for (6) Domestic Hot Water Heaters					Included	
2428	Engineering & Layout					Included	
2429	As-Built Drawings & O&M Manuals					Included	
2430	System Identification					Included	
2431	Scaffolding (for pipe/duct/devices controlled by this trade)					Included	
2432	Rigging & Hoisting					Included	
2433	Core Drilling					Included	
2434	Firestopping					Included	
2435	Startup & Test					Included	
2436	Warranty					Included	
2437	Misc specialities (gauges, thermometers, etc)					Included	
2438	Shanty - Tool / Equip Storage					Included	
2439	Temporary Services					Included	
2440	Heat Tracing - Chilled Water - Furnish Only					Included	
2441	Factory Testing of one new AHU					Included	
2442	Permits & Fees					Included	
2443	Controlled Inspections					Included	
2444	Mockups					Not Included	
2445	Fire Alarm/Life Safety					w/Electrical	
2446	Motor Control Centers					w/Electrical	
2447	Overtime					Not Included	
2448	Painting of Ductwork/Piping					w/Painting	
2449	Trenching/Excavation/Backfill					w/Foundations	
2450	Concrete Pad Work					w/Concrete	
2451	Roof Work					w/Roofing	
2452	Domestic Cold Water Make-up Piping					w/Plumbing	
2453							

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2454	<b>Subtotal: Miscellaneous</b>					(\$265,000)	
2455							
2456							
2457	<b>H.V.A.C.</b>						\$33,015,660
2458							
2459	<b>ELECTRICAL</b>						
2460							
2461							
2462	<b>Service &amp; Power Distribution</b>						
2463							
2464	<b>North Side</b>						
2465	<b>Incoming Service</b>						
2466	Feeder #1 : 5KV Cables				with Site Work		
2467	Feeder #2: 5KV Cables				with Site Work		
2468	Feeder #3: 5KV Cables				with Site Work		
2469	Feeder #4: 5KV Cables				with Site Work		
2470	Feeder #5: 5KV Cables				with Site Work		
2471	<b>Spot Network</b>						
2472	<b>Metering</b>						
2473	Current Transformers	5	EA	\$2,500.00	\$12,500		
2474	Totalizing Meter	1	EA	\$5,000.00	\$5,000		
2475	Wire & Connections				Included		
2476	HV Switches with Key Interlock	5	EA	\$50,000.00	\$250,000		
2477	Feeder to T1-N: 1 Set - 3#500 + 4/0G - 4"C	15	LF	\$107.00	\$1,600		
2478	1333KVA Transformer-T1-N	1	EA	\$150,000.00	\$150,000		
2479	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	\$631.25	\$9,500		
2480	Network Protectors/Disconnect Switch	1	EA	\$27,000.00	\$27,000		
2481	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	\$631.25	\$15,800		
2482	Feeder to T2-N: 1 Set - 3#500 + 4/0G - 4"C	15	LF	\$107.00	\$1,600		
2483	1333KVA Transformer-T2-N	1	EA	\$150,000.00	\$150,000		
2484	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	\$631.25	\$9,500		
2485	Network Protectors/Disconnect Switch	1	EA	\$27,000.00	\$27,000		
2486	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	\$631.25	\$15,800		
2487	Feeder to T3-N: 1 Set - 3#500 + 4/0G - 4"C	15	LF	\$107.00	\$1,600		
2488	1333KVA Transformer-T3-N	1	EA	\$150,000.00	\$150,000		
2489	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	\$631.25	\$9,500		
2490	Network Protectors/Disconnect Switch	1	EA	\$27,000.00	\$27,000		
2491	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	\$631.25	\$15,800		
2492	Feeder to T4-N: 1 Set - 3#500 + 4/0G - 4"C	15	LF	\$107.00	\$1,600		
2493	1333KVA Transformer-T4-N	1	EA	\$150,000.00	\$150,000		
2494	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	\$631.25	\$9,500		
2495	Network Protectors/Disconnect Switch	1	EA	\$27,000.00	\$27,000		
2496	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	\$631.25	\$15,800		

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2497	Feeder to T5-N: 1 Set - 3#500 + 4/0G - 4"C	15	LF	\$107.00	\$1,600		
2498	1333KVA Transformer-T5-N	1	EA	\$150,000.00	\$150,000		
2499	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	\$631.25	\$9,500		
2500	Network Protectors/Disconnect Switch	1	EA	\$27,000.00	\$27,000		
2501	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	\$631.25	\$15,800		
2502	Collector Bus (5000A, 480V, 3P)	5	EA	\$75,000.00	\$375,000		
2503	Busway #1	20	LF	\$2,000.00	\$40,000		
2504	Main Fuse	3	EA	\$500.00	\$1,500		
2505	Tap Box				Included		
2506	Bus Elbow				Included		
2507	Bus Stab Connection				Included		
2508	Feeder to Switchgear - SWGR-N-1				Included		
2509	Busway #2	20	LF	\$2,000.00	\$40,000		
2510	Main Fuse	3	EA	\$500.00	\$1,500		
2511	Tap Box				Included		
2512	Bus Elbow				Included		
2513	Bus Stab Connection				Included		
2514	Feeder to Switchgear - SWGR-N-2				Included		
2515							
2516	Switchgear - SWGR-N-1 (5000A, 480V)	1	EA	\$250,000.00	\$250,000		
2517	Line Side Tap Feeder #1: P40B	25	LF	\$16.00	\$400		
2518	30 A Fuse Switch				with Switchgear		
2519	Normal Feeder to ATS-N-3: P70B	15	LF	\$24.30	\$400		
2520	ATS-N-3 (60A, 4P) [EC-N??]				with EMPS		
2521	Feeder to Emergency Power Generation: P70B				with EMPS		
2522	Feeder to Transformer T-21-N: P40D	10	LF	\$16.00	\$200		
2523	15 KVA- T-21-N [EC-N??]	1	EA	\$1,650.00	\$2,000		
2524	Feeder to CU Bus	10	LF	\$16.00	\$200		
2525	Bus Duct (3P, 4W, CU)	1	EA	\$2,500.00	\$2,500		
2526	3P Fused Cutout Boxes				with Line Side Feeder		
2527	Load Side Circuit to FACP	4	EA	\$1,000.00	\$4,000		
2528	Line Side Tap Feeder #2: P95B	50	LF	\$27.20	\$1,400		
2529	800 A Fuse Switch				with Switchgear		
2530	Feeder to Fire Pump Controller: P95B	250	LF	\$27.20	with EMPS		
2531	Fire Pump Controller (FBO)	1	LS	\$5,000.00	\$5,000		
2532	Connection from ATS to Fire Pump	1	EA	\$3,000.00	\$3,000		
2533	4000 A Tiebreaker				with Switchgear		
2534	Horizontal Bus between SWGR-N-1 & SWGR-N-2	15	LF	\$2,000.00	\$30,000		
2535	Transient Voltage Surge Suppressor				Included		
2536	Feeder to RET-PP-N2-1: P285D-X3	400	LF	\$289.80	\$115,900		
2537	RET-PP-N2-1 (800A) [EC-N2-1]	1	EA	\$12,000.00	\$12,000		
2538	Feeder to T29-N: P230B	15	LF	\$59.25	\$900		
2539	112.5 KVA Transformer-T29-N [EC-N2-1]	1	EA	\$8,438.00	\$8,400		
2540	Feeder to RET-LV-N1-1: P380G	15	LF	\$126.25	\$1,900		

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2541	RET-LV-N1-1 (400A) [EC-N2-1]	1	EA	\$6,000.00	\$6,000		
2542	Feeder to M-PP-N1-1: P285D-X3	250	LF	\$289.80	\$72,500		
2543	M-PP-N1-1 (1000A) [EC-N1-2]	1	EA	\$15,000.00	\$15,000		
2544	Feeder to M-PP-N2-1: P285D-X3	50	LF	\$289.80	\$14,500		
2545	M-PP-N2-1 (1000A) [EC-N2-3]	1	EA	\$15,000.00	\$15,000		
2546	Feeder to M-PP-N1-2: P230D-X2	50	LF	\$66.00	\$3,300		
2547	M-PP-N1-2 (1000A) [EC-N2-3]	1	EA	\$15,000.00	\$15,000		
2548	Feeder to G-PP-N1-1: P230D-X2	100	LF	\$132.00	\$13,200		
2549	G-PP-N1-1 (1000A) [EC-N??]	1	EA	\$15,000.00	\$15,000		
2550	Feeder to DP-N1-1: P285D-X3	375	LF	\$289.80	\$108,700		
2551	DP-N1-1 (800A, 480V) [EC-N1-1]	1	EA	\$16,000.00	\$16,000		
2552	Feeder: P110D	15	LF	\$39.45	\$600		
2553	LP-N1-1 (225A)	1	EA	\$3,375.00	\$3,400		
2554	Feeder: P110D	15	LF	\$39.45	\$600		
2555	LP-N1-2 (225A)	1	EA	\$3,375.00	\$3,400		
2556	Feeder: P110D	15	LF	\$39.45	\$600		
2557	PP-N1-1 (225A)	1	EA	\$3,375.00	\$3,400		
2558	Feeder to T22-N: P150B	15	LF	\$37.20	\$600		
2559	75 KVA Transformer-T22-N	1	EA	\$5,625.00	\$5,600		
2560	Feeder: P230D	10	LF	\$66.00	\$700		
2561	Feeder: P40D	15	LF	\$16.00	\$200		
2562	RP-N1-1 (225A)	1	EA	\$3,375.00	\$3,400		
2563	Feeder: P40D	15	LF	\$16.00	\$200		
2564	RP-N1-2 (225A)	1	EA	\$3,375.00	\$3,400		
2565	Feeder: P40D	15	LF	\$16.00	\$200		
2566	RP-N1-3 (225A)	1	EA	\$3,375.00	\$3,400		
2567	Feeder to DP-N1-2: P285D-X3	250	LF	\$289.80	\$72,500		
2568	DP-N1-2 (800A, 480V) [EC-N1-2]	1	EA	\$16,000.00	\$16,000		
2569	Feeder: P110D	15	LF	\$39.45	\$600		
2570	LP-N1-3 (225A)	1	EA	\$3,375.00	\$3,400		
2571	Feeder: P110D	15	LF	\$39.45	\$600		
2572	LP-N1-4 (225A)	1	EA	\$3,375.00	\$3,400		
2573	Feeder: P110D	15	LF	\$39.45	\$600		
2574	PP-N1-2 (225A)	1	EA	\$3,375.00	\$3,400		
2575	Feeder to T23-N: P150B	15	LF	\$37.20	\$600		
2576	75 KVA Transformer-T23-N	1	EA	\$5,625.00	\$5,600		
2577	Feeder: P230D	10	LF	\$66.00	\$700		
2578	Feeder: P40D	15	LF	\$16.00	\$200		
2579	RP-N1-4 (225A)	1	EA	\$3,375.00	\$3,400		
2580	Feeder: P40D	15	LF	\$16.00	\$200		
2581	RP-N1-5 (225A)	1	EA	\$3,375.00	\$3,400		
2582	Feeder: P40D	15	LF	\$16.00	\$200		
2583	RP-N1-6 (225A)	1	EA	\$3,375.00	\$3,400		
2584	Feeder to DP-N2-1: P285D-X3	400	LF	\$289.80	\$115,900		

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2585	DP-N2-1 (800A, 480V) [EC-N2-1]	1	EA	\$16,000.00	\$16,000		
2586	Feeder : P110D	15	LF	\$39.45	\$600		
2587	LP-N2-1 (225A)	1	EA	\$3,375.00	\$3,400		
2588	Feeder : P110D	15	LF	\$39.45	\$600		
2589	LP-N2-2 (225A)	1	EA	\$3,375.00	\$3,400		
2590	Feeder : P110D	15	LF	\$39.45	\$600		
2591	PP-N2-1 (225A)	1	EA	\$3,375.00	\$3,400		
2592	Feeder to T26-N: P150B	15	LF	\$37.20	\$600		
2593	75 KVA Transformer-T26N	1	EA	\$5,625.00	\$5,600		
2594	Feeder : P230D	10	LF	\$66.00	\$700		
2595	Feeder : P40D	15	LF	\$16.00	\$200		
2596	RP-N2-1 (225A)	1	EA	\$3,375.00	\$3,400		
2597	Feeder : P40D	15	LF	\$16.00	\$200		
2598	RP-N2-2 (225A)	1	EA	\$3,375.00	\$3,400		
2599	Feeder : P40D	15	LF	\$16.00	\$200		
2600	RP-N2-3 (225A)	1	EA	\$3,375.00	\$3,400		
2601	Feeder to ATS-N-1: P380D-X3	30	LF	\$358.05	\$10,700		
2602	ATS-N-1 [RM I-8Q12]						with EPS
2603							
2604	Switchboard - EM-LSL-N (1000A, 480V)	1	EA	\$150,000.00	\$150,000		
2605	Feeder from ATS-N-1: P380D-X3	30	LF	\$120.00	\$3,600		
2606	Disconnect Switch - PDP-MCP-1						Included
2607	Disconnect Switch - PDP-MCP-2						Included
2608	Feeder to LSL-MPP-N2-1: P285-X3	400	LF	\$120.00	\$48,000		
2609	LSL-MPP-N2-1 [EC-N2-1]	1	EA	\$5,000.00	\$5,000		
2610	Feeder to LSL-MPP-N2-2: P285-X3	400	LF	\$120.00	\$48,000		
2611	LSL-MPP-N2-2 [EC-N2-2]	1	EA	\$5,000.00	\$5,000		
2612	Feeder to T7-N: P95B	350	LF	\$100.00	\$35,000		
2613	30 KVA Transformer-T7-N [EC-N1-1]	1	EA	\$5,000.00	\$5,000		
2614	Feeder to LSL-RP-N1-1: P95D	15	LF	\$100.00	\$1,500		
2615	LSL-RP-N1-1 [EC-N1-1]	1	EA	\$5,000.00	\$5,000		
2616	Feeder to LSL-LP-N1-1: P110D	15	LF	\$40.00	\$600		
2617	LSL-LP-N1-1 [EC-N1-1]	1	EA	\$5,000.00	\$5,000		
2618	Feeder to T8-N: P95B	250	LF	\$100.00	\$25,000		
2619	30 KVA Transformer-T8-N [EC-N1-2]	1	EA	\$5,000.00	\$5,000		
2620	Feeder to LSL-RP-N1-2: P95D	15	LF	\$100.00	\$1,500		
2621	LSL-RP-N1-2 [EC-N1-2]	1	EA	\$5,000.00	\$5,000		
2622	Feeder to LSL-LP-N1-2: P110D	15	LF	\$40.00	\$600		
2623	LSL-LP-N1-2 [EC-N1-2]	1	EA	\$5,000.00	\$5,000		
2624	Feeder to T9-N: P95B	150	LF	\$100.00	\$15,000		
2625	30 KVA Transformer-T9-N [EC-N1-3]	1	EA	\$5,000.00	\$5,000		
2626	Feeder to LSL-RP-N1-3: P95D	15	LF	\$100.00	\$1,500		
2627	LSL-RP-N1-3 [EC-N1-3]	1	EA	\$5,000.00	\$5,000		
2628	Feeder to LSL-LP-N1-3: P110D	15	LF	\$40.00	\$600		

**Turner** ≡ Aviation

JetBlue Terminal 5  
 JFK Airport New York, New York  
 60% CD Estimate  
 April 20, 2005

Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2629	LSL-LP-N1-3 [EC-N1-3]	1	EA	\$5,000.00	\$5,000		
2630	Feeder to T10-N: P95B	100	LF	\$100.00	\$10,000		
2631	30 KVA Transformer-T10-N [EC-N1-4]	1	EA	\$5,000.00	\$5,000		
2632	Feeder to LSL-RP-N1-4: P95D	15	LF	\$100.00	\$1,500		
2633	LSL-RP-N1-4 [EC-N1-4]	1	EA	\$5,000.00	\$5,000		
2634	Feeder to LSL-LP-N1-4	15	LF	\$40.00	\$600		
2635	LSL-LP-N1-4 [EC-N1-4]	1	EA	\$5,000.00	\$5,000		
2636	Feeder to T11-N: P95B	400	LF	\$100.00	\$40,000		
2637	30 KVA Transformer-T11-N [EC-N2-1]	1	EA	\$5,000.00	\$5,000		
2638	Feeder to LSL-RP-N2-1	15	LF	\$100.00	\$1,500		
2639	LSL-RP-N2-1 [EC-N2-1]	1	EA	\$5,000.00	\$5,000		
2640	Feeder to LSL-LP-N2-1: P110D	15	LF	\$40.00	\$600		
2641	LSL-LP-N2-1 [EC-N2-1]	1	EA	\$5,000.00	\$5,000		
2642	Feeder to T12-N: P95B	400	LF	\$100.00	\$40,000		
2643	30 KVA Transformer-T12-N [EC-N2-2]	1	EA	\$5,000.00	\$5,000		
2644	Feeder to LSL-RP-N2-2	15	LF	\$100.00	\$1,500		
2645	LSL-RP-N2-2 [EC-N2-2]	1	EA	\$5,000.00	\$5,000		
2646	Feeder to LSL-LP-N2-2: P110D	15	LF	\$40.00	\$600		
2647	LSL-LP-N2-2 [EC-N2-2]	1	EA	\$5,000.00	\$5,000		
2648	Feeder to T13-N: P95B	100	LF	\$100.00	\$10,000		
2649	30 KVA Transformer-T13-N [EC-N2-3]	1	EA	\$5,000.00	\$5,000		
2650	Feeder to LSL-RP-N2-3	15	LF	\$100.00	\$1,500		
2651	LSL-RP-N2-3 [EC-N2-3]	1	EA	\$5,000.00	\$5,000		
2652	Feeder to LSL-LP-N2-3: P110D	15	LF	\$40.00	\$600		
2653	LSL-LP-N2-3 [EC-N2-3]	1	EA	\$5,000.00	\$5,000		
2654							
2655	Switchgear - SWGR-N-2 (5000A, 480V)	1	EA	\$250,000.00	\$250,000		
2656	4000 A Tiebreaker					with SWGR-N-1	
2657	Horizontal Bus between SWGR-N-1 & SWGR-N-2					with SWGR-N-1	
2658	Transient Voltage Surge Suppressor					Included	
2659	Feeder to RET-PP-N1-1: P230D-X2	100	LF	\$132.00	\$13,200		
2660	RET-PP-N2-1 (400 A) [EC-N1-4]	1	EA	\$6,000.00	\$6,000		
2661	Feeder to T30-N: P230B	15	LF	\$59.25	\$900		
2662	112.5 KVA Transformer-T30-N [EC-N1-4]	1	EA	\$8,438.00	\$8,400		
2663	Feeder to RET-LV-N1-1: P380G	15	LF	\$126.25	\$1,900		
2664	RET-LV-N1-1 (400 A) [EC-N1-4]	1	EA	\$6,000.00	\$6,000		
2665	Feeder to M-PP-N1-3: P285D-X3	100	LF	\$289.80	\$29,000		
2666	M-PP-N1-3 (1200 A) [EC-N??]	1	EA	\$18,000.00	\$18,000		
2667	Feeder to M-PP-N2-3: P285D-X3	400	LF	\$289.80	\$115,900		
2668	M-PP-N2-3 (800 A) [EC-N2-1]	1	EA	\$12,000.00	\$12,000		
2669	Feeder to M-PP-N2-2: P285D-X3	400	LF	\$289.80	\$115,900		
2670	M-PP-N2-2 (1000 A) [EC-N2-2]	1	EA	\$15,000.00	\$15,000		
2671	Feeder to G-PP-N1-2: P285D-X3	75	LF	\$289.80	\$21,700		
2672	G-PP-N1-2 (800 A) [EC-N??]	1	EA	\$12,000.00	\$12,000		

**Turner** ≡ Aviation

JetBlue Terminal 5  
 JFK Airport New York, New York  
 60% CD Estimate  
 April 20, 2005

Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2673	Feeder to DP-N2-3: P285D-X3	50	LF	\$289.80	\$14,500		
2674	DP-N2-3 (800A, 480V) [EC-N2-3]	1	EA	\$16,000.00	\$16,000		
2675	Feeder: P110D	15	LF	\$39.45	\$600		
2676	LP-N2-5 (225A)	1	EA	\$3,375.00	\$3,400		
2677	Feeder: P110D	15	LF	\$39.45	\$600		
2678	LP-N2-6 (225A)	1	EA	\$3,375.00	\$3,400		
2679	Feeder: P110D	15	LF	\$39.45	\$600		
2680	PP-N2-3 (225A)	1	EA	\$3,375.00	\$3,400		
2681	Feeder to T28-N: P150B	15	LF	\$37.20	\$600		
2682	75 KVA Transformer-T28N	1	EA	\$5,625.00	\$5,600		
2683	Feeder: P230D	10	LF	\$66.00	\$700		
2684	Feeder: P40D	15	LF	\$16.00	\$200		
2685	RP-N2-7 (225A)	1	EA	\$3,375.00	\$3,400		
2686	Feeder: P40D	15	LF	\$16.00	\$200		
2687	RP-N2-8 (225A)	1	EA	\$3,375.00	\$3,400		
2688	Feeder: P40D	15	LF	\$16.00	\$200		
2689	RP-N2-9 (225A)	1	EA	\$3,375.00	\$3,400		
2690	Feeder to DP-N2-2: P380D-X3	400	LF	\$358.05	\$143,200		
2691	DP-N2-2 (800A, 480V) [EC-N2-2]	1	EA	\$16,000.00	\$16,000		
2692	Feeder: P110D	15	LF	\$39.45	\$600		
2693	LP-N2-4 (225A)	1	EA	\$3,375.00	\$3,400		
2694	Feeder: P110D	15	LF	\$39.45	\$600		
2695	PP-N2-2 (225A)	1	EA	\$3,375.00	\$3,400		
2696	Feeder to T27-N: P150B	15	LF	\$37.20	\$600		
2697	75 KVA Transformer-T27N	1	EA	\$5,625.00	\$5,600		
2698	Feeder: P230D	10	LF	\$66.00	\$700		
2699	Feeder: P40D	15	LF	\$16.00	\$200		
2700	RP-N2-4 (225A)	1	EA	\$3,375.00	\$3,400		
2701	Feeder: P40D	15	LF	\$16.00	\$200		
2702	RP-N2-5 (225A)	1	EA	\$3,375.00	\$3,400		
2703	Feeder: P40D	15	LF	\$16.00	\$200		
2704	RP-N2-6 (225A)	1	EA	\$3,375.00	\$3,400		
2705	Feeder to DP-N1-4: P285D-X3	100	LF	\$289.80	\$29,000		
2706	DP-N1-4 (800A, 480V) [EC-N1-4]	1	EA	\$5,625.00	\$5,600		
2707	Feeder: P110D	15	LF	\$39.45	\$600		
2708	LP-N1-7 (225A)	1	EA	\$3,375.00	\$3,400		
2709	Feeder: P110D	15	LF	\$39.45	\$600		
2710	LP-N1-8 (225A)	1	EA	\$3,375.00	\$3,400		
2711	Feeder: P110D	15	LF	\$39.45	\$600		
2712	PP-N1-4 (225A)	1	EA	\$3,375.00	\$3,400		
2713	Feeder to T24-N: P150B	15	LF	\$37.20	\$600		
2714	75 KVA Transformer-T24-N	1	EA	\$5,625.00	\$5,600		
2715	Feeder: P230D	10	LF	\$66.00	\$700		
2716	Feeder: P40D	15	LF	\$16.00	\$200		

JetBlue Terminal 5  
 JFK Airport New York, New York  
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 April 20, 2005

Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2717	RP-N1-10 (225A)	1	EA	\$3,375.00	\$3,400		
2718	Feeder : P40D	15	LF	\$16.00	\$200		
2719	RP-N1-11 (225A)	1	EA	\$3,375.00	\$3,400		
2720	Feeder : P40D	15	LF	\$16.00	\$200		
2721	RP-N1-12 (225A)	1	EA	\$3,375.00	\$3,400		
2722	Feeder to DP-N1-3: P285D-X3	150	LF	\$289.80	\$43,500		
2723	DP-N1-3 (800A, 480V) [EC-N1-3]	1	EA	\$16,000.00	\$16,000		
2724	Feeder : P110D	15	LF	\$39.45	\$600		
2725	LP-N1-5 (225A)	1	EA	\$3,375.00	\$3,400		
2726	Feeder : P110D	15	LF	\$39.45	\$600		
2727	LP-N1-6 (225A)	1	EA	\$5,000.00	\$5,000		
2728	Feeder : P110D	15	LF	\$39.45	\$600		
2729	PP-N1-3 (225A)	1	EA	\$3,375.00	\$3,400		
2730	Feeder to T24-N: P150B	15	LF	\$37.20	\$600		
2731	75 KVA Transformer-T24-N	1	EA	\$3,375.00	\$3,400		
2732	Feeder : P230D	10	LF	\$66.00	\$700		
2733	Feeder : P40D	15	LF	\$16.00	\$200		
2734	RP-N1-7 (225A)	1	EA	\$3,375.00	\$3,400		
2735	Feeder : P40D	15	LF	\$16.00	\$200		
2736	RP-N1-8 (225A)	1	EA	\$3,375.00	\$3,400		
2737	Feeder : P40D	15	LF	\$16.00	\$200		
2738	RP-N1-9 (225A)	1	EA	\$3,375.00	\$3,400		
2739	Feeder to ATS-N-2: P380D-X3	30	LF	\$358.05	\$10,700		
2740	ATS-N-2 (1000 A, 4P) [EC-N??]						Included with Emergency Power System
2741							
2742	Switchboard - EM-EL-N (1000A, 480V)	1	EA	\$150,000.00	\$150,000		
2743	Feeder from ATS-N-2: P380D-X3	75	LF	\$120.00	\$9,000		
2744	Feeder to PP-GEN: P110D	100	LF	\$40.00	\$4,000		
2745	PP-GEN [EC-N??]	1	EA	\$5,000.00	\$5,000		
2746	Feeder to EL-LP-N2-3: P230D	50	LF	\$40.00	\$2,000		
2747	EL-LP-N2-3 [EC-N2-3]	1	EA	\$5,000.00	\$5,000		
2748	Feeder to T20-N: P70B	15	LF	\$40.00	\$600		
2749	30KVA Transformer - T20-N	1	EA	\$5,000.00	\$5,000		
2750	Feeder to EL-RP-N2-3: P95D	15	LF	\$40.00	\$600		
2751	EL-RP-N2-3	1	EA	\$5,000.00	\$5,000		
2752	Feeder to IT-N2-2: P70D	15	LF	\$40.00	\$600		
2753	IT-N2-2 [EC-N??]	1	EA	\$5,000.00	\$5,000		
2754	Feeder to T31-N: P95B	100	LF	\$40.00	\$4,000		
2755	30KVA Transformer - T31-N [EC-N??]	1	EA	\$5,000.00	\$5,000		
2756	Feeder to PP-RAMP-1: P95D	15	LF	\$40.00	\$600		
2757	PP-RAMP-1	1	EA	\$5,000.00	\$5,000		
2758	Feeder to EL-LP-N2-2: P110D	400	LF	\$40.00	\$16,000		
2759	EL-LP-N2-2 [EC-N2-2]	1	EA	\$5,000.00	\$5,000		
2760	Feeder to T19-N: P70B	15	LF	\$40.00	\$600		

JetBlue Terminal 5  
 JFK Airport New York, New York  
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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2761	30KVA Transformer - T19-N	1	EA	\$5,000.00	\$5,000		
2762	Feeder to EL-RP-N2-2: P95D	15	LF	\$40.00	\$600		
2763	EL-RP-N2-2	1	EA	\$5,000.00	\$5,000		
2764	Feeder to IT-N2-1: P70D	15	LF	\$40.00	\$600		
2765	IT-N2-1 [EC-N??]	1	EA	\$5,000.00	\$5,000		
2766	Feeder to EL-LP-N2-1: 110D	400	LF	\$40.00	\$16,000		
2767	EL-LP-N2-1 [EC-N2-1]	1	EA	\$5,000.00	\$5,000		
2768	Feeder to T18-N: P70B	15	LF	\$40.00	\$600		
2769	30KVA Transformer - T18-N	1	EA	\$5,000.00	\$5,000		
2770	Feeder to EL-RP-N2-1: P95D	15	LF	\$40.00	\$600		
2771	EL-RP-N2-1	1	EA	\$5,000.00	\$5,000		
2772	Feeder to EL-LP-N1-4: 110D	100	LF	\$40.00	\$4,000		
2773	EL-LP-N1-4 [EC-N1-4]	1	EA	\$5,000.00	\$5,000		
2774	Feeder to T17-N: P70B	15	LF	\$40.00	\$600		
2775	30KVA Transformer - T17-N	1	EA	\$5,000.00	\$5,000		
2776	Feeder to EL-RP-N1-4: P95D	15	LF	\$40.00	\$600		
2777	EL-RP-N1-4	1	EA	\$5,000.00	\$5,000		
2778	Feeder to EL-LP-N1-3: 110D	150	LF	\$40.00	\$6,000		
2779	EL-LP-N1-3 [EC-N1-3]	1	EA	\$5,000.00	\$5,000		
2780	Feeder to T16-N: P70B	15	LF	\$40.00	\$600		
2781	30KVA Transformer - T16-N	1	EA	\$5,000.00	\$5,000		
2782	Feeder to EL-RP-N1-3: P95D	15	LF	\$40.00	\$600		
2783	EL-RP-N1-3	1	EA	\$5,000.00	\$5,000		
2784	Feeder to IT-N1-1: P70D	15	LF	\$40.00	\$600		
2785	IT-N1-1 [EC-N??]	1	EA	\$5,000.00	\$5,000		
2786	Feeder to EL-LP-N1-2: 110D	250	LF	\$40.00	\$10,000		
2787	EL-LP-N1-2 [EC-N1-2]	1	EA	\$5,000.00	\$5,000		
2788	Feeder to T15-N: P70B	15	LF	\$40.00	\$600		
2789	30KVA Transformer - T15-N	1	EA	\$5,000.00	\$5,000		
2790	Feeder to EL-RP-N1-2: P95D	15	LF	\$40.00	\$600		
2791	EL-RP-N1-2	1	EA	\$5,000.00	\$5,000		
2792	Feeder to EL-LP-N1-1: 110D	350	LF	\$40.00	\$14,000		
2793	EL-LP-N1-1 [EC-N1-1]	1	EA	\$5,000.00	\$5,000		
2794	Feeder to T14-N: P70B	15	LF	\$40.00	\$600		
2795	30KVA Transformer - T14-N	1	EA	\$5,000.00	\$5,000		
2796	Feeder to EL-RP-N1-1: P95D	15	LF	\$40.00	\$600		
2797	EL-RP-N1-1	1	EA	\$5,000.00	\$5,000		
2798							
2799	<b>South Side</b>						
2800	Incoming Service						
2801	Feeder #1 : 5KV Cables						with Site Work
2802	Feeder #2: 5KV Cables						with Site Work
2803	Feeder #3: 5KV Cables						with Site Work
2804	Feeder #4: 5KV Cables						with Site Work

JetBlue Terminal 5  
 JFK Airport New York, New York  
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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2805	Feeder #5: 5KV Cables						
2806	Spot Network						
2807	Metering						
2808	Current Transformers	5	EA	\$2,500.00	\$12,500		
2809	Totalizing Meter	1	EA	\$5,000.00	\$5,000		
2810	Wire & Connections					Included	
2811	HV Switches with Key Interlock	5	EA	\$50,000.00	\$250,000		
2812	Feeder to T1-S: 1 Set - 3#500 + 4/0G - 4"C	15	LF	\$107.00	\$1,600		
2813	1333KVA Transformer-T1-S	1	EA	\$150,000.00	\$150,000		
2814	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	\$631.25	\$9,500		
2815	Network Protectors/Disconnect Switch	1	EA	\$27,000.00	\$27,000		
2816	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	\$631.25	\$15,800		
2817	Feeder to T2-S: 1 Set - 3#500 + 4/0G - 4"C	15	LF	\$107.00	\$1,600		
2818	1333KVA Transformer-T2-S	1	EA	\$150,000.00	\$150,000		
2819	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	\$631.25	\$9,500		
2820	Network Protectors/Disconnect Switch	1	EA	\$27,000.00	\$27,000		
2821	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	\$631.25	\$15,800		
2822	Feeder to T3-S: 1 Set - 3#500 + 4/0G - 4"C	15	LF	\$107.00	\$1,600		
2823	1333KVA Transformer-T3-S	1	EA	\$150,000.00	\$150,000		
2824	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	\$631.25	\$9,500		
2825	Network Protectors/Disconnect Switch	1	EA	\$27,000.00	\$27,000		
2826	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	\$631.25	\$15,800		
2827	Feeder to T4-S: 1 Set - 3#500 + 4/0G - 4"C	15	LF	\$107.00	\$1,600		
2828	1333KVA Transformer-T4-S	1	EA	\$150,000.00	\$150,000		
2829	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	\$631.25	\$9,500		
2830	Network Protectors/Disconnect Switch	1	EA	\$27,000.00	\$27,000		
2831	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	\$631.25	\$15,800		
2832	Feeder to T5-S: 1 Set - 3#500 + 4/0G - 4"C	15	LF	\$107.00	\$1,600		
2833	1333KVA Transformer-T5-S	1	EA	\$150,000.00	\$150,000		
2834	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	\$631.25	\$9,500		
2835	Network Protectors/Disconnect Switch	1	EA	\$27,000.00	\$27,000		
2836	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	\$631.25	\$15,800		
2837	Collector Bus (5000A, 480V, 3P)	5	EA	\$75,000.00	\$375,000		
2838	Busway #1	20	LF	\$2,000.00	\$40,000		
2839	Main Fuse	3	EA	\$500.00	\$1,500		
2840	Tap Box					Included	
2841	Bus Elbow					Included	
2842	Bus Stab Connection					Included	
2843	Feeder to Switchgear - SWGR-N-1					Included	
2844	Busway #2	20	LF	\$2,000.00	\$40,000		
2845	Main Fuse	3	EA	\$500.00	\$1,500		
2846	Tap Box					Included	
2847	Bus Elbow					Included	
2848	Bus Stab Connection					Included	

JetBlue Terminal 5  
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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2849	Feeder to Switchgear - SWGR-N-1				Included		
2850							
2851	Switchgear - SWGR-S-1 (5000A, 480V)	1	EA	\$250,000.00	\$250,000		
2852	Line Side Tap Feeder #1: P40B	25	LF	\$16.00	\$400		
2853	30 A Fuse Switch				with Switchgear		
2854	Normal Feeder to ATS-S-3: P70B	15	LF	\$24.30	\$400		
2855	ATS-N-3 (60A, 4P) [EC-N??]				with EMPS		
2856	Feeder from Emergency Power Generation: P70B				with EMPS		
2857	Feeder to Transformer T-21-N: P40D	10	LF	\$16.00	\$200		
2858	15 KVA- T-21-S [EC-N??]	1	EA	\$1,650.00	\$2,000		
2859	Feeder to CU Bus	10	LF	\$16.00	\$200		
2860	Bus Duct (3P, 4W, CU)	1	EA	\$2,500.00	\$2,500		
2861	3P Fused Cutout Boxes				with Line Side Feeder		
2862	Load Side Circuit to FACP	4	EA	\$1,000.00	\$4,000		
2863	Line Side Tap Feeder #2: P95B	50	LF	\$27.20	\$1,400		
2864	800 A Fuse Switch				with Switchgear		
2865	Feeder to Fire Pump Controller: P95B	250	LF	\$27.20	with EMPS		
2866	Fire Pump Controller (FBO)	1	LS	\$5,000.00	\$5,000		
2867	Connection from ATS to Fire Pump	1	EA	\$3,000.00	\$3,000		
2868	4000 A Tiebreaker				with Switchgear		
2869	Horizontal Bus between SWGR-N-1 & SWGR-N-2	15	LF	\$2,000.00	\$30,000		
2870	Transient Voltage Surge Suppressor				Included		
2871	Feeder to RET-PP-S1-1: P230D-X2	300	LF	\$138.50	\$41,600		
2872	RET-PP-S1-1 (800 A) [EC-S1-2]	1	EA	\$12,000.00	\$12,000		
2873	Feeder to T23-S: P230B	15	LF	\$59.25	\$900		
2874	75 KVA Transformer-T23-S	1	EA	\$8,250.00	\$8,300		
2875	Feeder to RET-LV-S1-1: P380G	15	LF	\$126.25	\$1,900		
2876	RET-LV-S1-1 (400 A)	1	EA	\$6,000.00	\$6,000		
2877	Feeder to M-PP-S1-3: P310D-X3	200	LF	\$312.00	\$62,400		
2878	M-PP-S1-3 (600 A) [EC-S1-3]	1	EA	\$9,000.00	\$9,000		
2879	Feeder to DP-S2-1: P310D-X3	300	LF	\$312.00	\$93,600		
2880	DP-S2-1 (800A, 277/480V) [EC-S2-1]	1	EA	\$16,000.00	\$16,000		
2881	Feeder: P110D	15	LF	\$39.45	\$600		
2882	LP-S2-1 (225 A)	1	EA	\$3,375.00	\$3,400		
2883	Feeder: P110D	15	LF	\$39.45	\$600		
2884	LP-S2-2 (225 A)	1	EA	\$3,375.00	\$3,400		
2885	Feeder: P110D	15	LF	\$39.45	\$600		
2886	PP-S2-1 (225 A)	1	EA	\$3,375.00	\$3,400		
2887	Feeder to T20-S: P150B	15	LF	\$37.20	\$600		
2888	75 KVA Transformer-T20S	1	EA	\$5,625.00	\$5,600		
2889	Feeder: P230D	10	LF	\$66.00	\$700		
2890	Feeder: P40D	15	LF	\$16.00	\$200		
2891	RP-S2-1 (225A)	1	EA	\$3,375.00	\$3,400		
2892	Feeder: P40D	15	LF	\$16.00	\$200		

**Turner** ≡ Aviation

JetBlue Terminal 5  
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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2893	RP-S2-2 (225A)	1	EA	\$3,375.00	\$3,400		
2894	Feeder: P40D	15	LF	\$16.00	\$200		
2895	RP-S2-3 (225A)	1	EA	\$3,375.00	\$3,400		
2896	Feeder to DP-S1-1: P310D-X3	400	LF	\$302.40	\$121,000		
2897	DP-S1-1 (800A, 277/480V) [EC-S1-1]	1	EA	\$16,000.00	\$16,000		
2898	Feeder: P110D	15	LF	\$39.45	\$600		
2899	LP-S1-1 (225 A)	1	EA	\$3,375.00	\$3,400		
2900	Feeder: P110D	15	LF	\$39.45	\$600		
2901	LP-S1-2 (225 A)	1	EA	\$3,375.00	\$3,400		
2902	Feeder: P110D	15	LF	\$39.45	\$600		
2903	PP-S1-1 (225 A)	1	EA	\$3,375.00	\$3,400		
2904	Feeder to T17-S: P150B	1	EA	\$37.20	\$0		
2905	75 KVA Transformer-T17-S	1	EA	\$5,625.00	\$5,600		
2906	Feeder: P230D	10	LF	\$66.00	\$700		
2907	Feeder: P40D	15	LF	\$16.00	\$200		
2908	RP-S1-1 (225A)	1	EA	\$3,375.00	\$3,400		
2909	Feeder: P40D	15	LF	\$16.00	\$200		
2910	RP-S1-2 (225A)	1	EA	\$3,375.00	\$3,400		
2911	Feeder: P40D	15	LF	\$16.00	\$200		
2912	RP-S1-3 (225A)	1	EA	\$3,375.00	\$3,400		
2913	Feeder to G-PP-S1-1: P310D-X3	100	LF	\$302.40	\$30,200		
2914	G-PP-S1-1 (1000 A) [EC-S??]	1	EA	\$15,000.00	\$15,000		
2915	Feeder to M-PP-S2-1: P230D-X2	270	LF	\$132.00	\$35,600		
2916	M-PP-S2-1 (800 A) [EC-S2-1]	1	EA	\$12,000.00	\$12,000		
2917	Feeder to M-PP-S1-1: P380G-X3	400	LF	\$378.75	\$151,500		
2918	M-PP-S1-1 (1600 A) [EC-S1-1]	1	EA	\$24,000.00	\$24,000		
2919	Feeder to M-PP-S2-3: P285G-X3	40	LF	\$378.75	\$15,200		
2920	M-PP-S2-3 (800 A) [EC-S2-2]	1	EA	\$12,000.00	\$12,000		
2921	Feeder to ATS-S-1: P380D-X3	25	LF	\$358.05	\$9,000		
2922	ATS-S-1 (1000 A, 4P) [EC-S??]						Included with Emergency Power System
2923							
2924	Switchboard - EM-LSL-S (1000A, 480V)	1	EA	\$150,000.00	\$150,000		
2925	Feeder from ATS-S-1: P380D-X3	100	LF	\$302.40	\$30,200		
2926	Feeder to PDP-MCP-4 thru 6: P380D-X3	100	LF	\$120.00	\$12,000		
2927	Disconnect Switch - PDP-MCP-4						Included
2928	Disconnect Switch - PDP-MCP-5						Included
2929	Disconnect Switch - PDP-MCP-6						Included
2930	Feeder to LSL-MPP-S2-1: P310D-X3	270	LF	\$120.00	\$32,400		
2931	LSL-MPP-S2-1 [EC-S2-1]	1	EA	\$5,000.00	\$5,000		
2932	Feeder to LSL-MPP-S2-2: P310D-X3	40	LF	\$120.00	\$4,800		
2933	LSL-MPP-S2-2 [EC-S2-2]	1	EA	\$5,000.00	\$5,000		
2934	Feeder to T6-S: P95B	400	LF	\$100.00	\$40,000		
2935	30 KVA Transformer-T6-S [EC-S1-1]	1	EA	\$5,000.00	\$5,000		
2936	Feeder to LSL-RP-S1-1: P95D	15	LF	\$100.00	\$1,500		

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2937	LSL-RP-S1-1 [EC-S1-1]	1	EA	\$5,000.00	\$5,000		
2938	Feeder to LSL-LP-S1-1: P110D	15	LF	\$40.00	\$600		
2939	LSL-LP-S1-1 [EC-S1-1]	1	EA	\$5,000.00	\$5,000		
2940	Feeder to T7-S: P95B	290	LF	\$100.00	\$29,000		
2941	30 KVA Transformer-T7-S [EC-S1-2]	1	EA	\$5,000.00	\$5,000		
2942	Feeder to LSL-RP-S1-2: P95D	15	LF	\$100.00	\$1,500		
2943	LSL-RP-S1-2 [EC-S1-2]	1	EA	\$5,000.00	\$5,000		
2944	Feeder to LSL-LP-S1-2: P110D	15	LF	\$40.00	\$600		
2945	LSL-LP-S1-2 [EC-S1-2]	1	EA	\$5,000.00	\$5,000		
2946	Feeder to T8-S: P95B	175	LF	\$100.00	\$17,500		
2947	30 KVA Transformer-T8-S [EC-S1-3]	1	EA	\$5,000.00	\$5,000		
2948	Feeder to LSL-RP-S1-3: P95D	15	LF	\$100.00	\$1,500		
2949	LSL-RP-S1-3 [EC-S1-3]	1	EA	\$5,000.00	\$5,000		
2950	Feeder to LSL-LP-S1-3: P110D	15	LF	\$40.00	\$600		
2951	LSL-LP-S1-3 [EC-S1-3]	1	EA	\$5,000.00	\$5,000		
2952	Feeder to T9-S: P95B	270	LF	\$100.00	\$27,000		
2953	30 KVA Transformer-T9-S [EC-S2-1]	1	EA	\$5,000.00	\$5,000		
2954	Feeder to LSL-RP-S2-1: P95D	15	LF	\$100.00	\$1,500		
2955	LSL-RP-S2-1 [EC-S2-1]	1	EA	\$5,000.00	\$5,000		
2956	Feeder to LSL-LP-S2-1	15	LF	\$40.00	\$600		
2957	LSL-LP-S2-1 [EC-S2-1]	1	EA	\$5,000.00	\$5,000		
2958	Feeder to T10-S: P95B	40	LF	\$100.00	\$4,000		
2959	30 KVA Transformer-T10-S [EC-S2-2]	1	EA	\$5,000.00	\$5,000		
2960	Feeder to LSL-RP-S2-2: P95B	15	LF	\$100.00	\$1,500		
2961	LSL-RP-S2-2 [EC-S2-2]	1	EA	\$5,000.00	\$5,000		
2962	Feeder to LSL-LP-S2-2: P110D	15	LF	\$40.00	\$600		
2963	LSL-LP-S2-2 [EC-S2-2]	1	EA	\$5,000.00	\$5,000		
2964							
2965	Switchgear - SWGR-S-2 (5000A, 480V)	1	EA	\$250,000.00	\$250,000		
2966	Feeder to M-PP-S1-4: P310D-X3	100	LF	\$302.40	\$30,200		
2967	M-PP-S1-4 (800 A) [EC-S???	1	EA	\$12,000.00	\$12,000		
2968	Feeder to RET-PP-S2-1: P310D-X3	100	LF	\$302.40	\$30,200		
2969	RET-PP-S2-1 (800 A) [Retail Closet-3-10C11]	1	EA	\$12,000.00	\$12,000		
2970	Feeder to T22-S: P380B	15	LF	\$99.20	\$1,500		
2971	75 KVA Transformer-T22-S	1	EA	\$8,250.00	\$8,300		
2972	Feeder to RET-LV-S2-1	15	LF	\$126.25	\$1,900		
2973	RET-LV-S2-1 (400 A)	1	EA	\$6,000.00	\$6,000		
2974	Feeder to M-PP-S2-2: P230D-X2	40	LF	\$132.00	\$5,300		
2975	M-PP-S2-2 (1000 A) [EC-S2-2]	1	EA	\$15,000.00	\$15,000		
2976	Feeder to M-PP-S1-2: P380G-X3	290	LF	\$378.75	\$109,800		
2977	M-PP-S1-2 (1200 A) [EC-S1-2]	1	EA	\$18,000.00	\$18,000		
2978	Feeder to DP-S1-3: P380G-X4	175	LF	\$505.00	\$88,400		
2979	DP-S1-3 (800A, 480V) [EC-S1-3]	1	EA	\$16,000.00	\$16,000		
2980	Feeder : P110D	15	LF	\$39.45	\$600		

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
2981	LP-S1-5 (225A)	1	EA	\$3,375.00	\$3,400		
2982	Feeder: P110D	15	LF	\$39.45	\$600		
2983	LP-S1-6 (225A)	1	EA	\$3,375.00	\$3,400		
2984	Feeder: P110D	15	LF	\$39.45	\$600		
2985	PP-S1-3 (225A)	1	EA	\$3,375.00	\$3,400		
2986	Feeder to T19-S: P150B	15	LF	\$37.20	\$600		
2987	75 KVA Transformer-T19-S	1	EA	\$8,259.00	\$8,300		
2988	Feeder: P230D	10	LF	\$66.00	\$700		
2989	Feeder: P40D	15	LF	\$16.00	\$200		
2990	RP-S1-7 (225A)	1	EA	\$3,375.00	\$3,400		
2991	Feeder: P40D	15	LF	\$16.00	\$200		
2992	RP-S1-8 (225A)	1	EA	\$3,375.00	\$3,400		
2993	Feeder: P40D	15	LF	\$16.00	\$200		
2994	RP-S1-10 (225A)	1	EA	\$3,375.00	\$3,400		
2995	Feeder to G-PP-S1-2: P380G-X4	100	LF	\$505.00	\$50,500		
2996	G-PP-S1-2 [EC-S???	1	EA	\$5,000.00	\$5,000		
2997	Feeder to DP-2-2: P310D-X3	40	LF	\$302.40	\$12,100		
2998	DP-S2-2 (800A, 480V) [EC-S2-2]	1	EA	\$16,000.00	\$16,000		
2999	Feeder: P110D	15	LF	\$39.45	\$600		
3000	LP-S2-3 (225 A)	1	EA	\$3,375.00	\$3,400		
3001	Feeder: P110D	15	LF	\$39.45	\$600		
3002	LP-S2-4 (225A)	1	EA	\$3,375.00	\$3,400		
3003	Feeder: P110D	15	LF	\$39.45	\$600		
3004	PP-S2-2 (225 A)	1	EA	\$3,375.00	\$3,400		
3005	Feeder to T21-S: P150B	15	LF	\$37.20	\$600		
3006	75 KVA Transformer-T21S	1	EA	\$8,350.00	\$8,400		
3007	Feeder: P230D	10	LF	\$66.00	\$700		
3008	Feeder: P40D	15	LF	\$16.00	\$200		
3009	RP-S2-4 (225A)	1	EA	\$3,375.00	\$3,400		
3010	Feeder: P40D	15	LF	\$16.00	\$200		
3011	RP-S2-5 (225A)	1	EA	\$3,375.00	\$3,400		
3012	Feeder: P40D	15	LF	\$16.00	\$200		
3013	RP-S2-6 (225A)	1	EA	\$3,375.00	\$3,400		
3014	Feeder to DP-S1-2: P310D-X3	290	LF	\$302.40	\$87,700		
3015	DP-S1-2 (800A, 480V) [EC-S1-2]	1	EA	\$16,000.00	\$16,000		
3016	Feeder: P110D	15	LF	\$39.45	\$600		
3017	LP-S1-3 (225 A)	1	EA	\$3,375.00	\$3,400		
3018	Feeder: P110D	15	LF	\$39.45	\$600		
3019	LP-S1-4 (225 A)	1	EA	\$3,375.00	\$3,400		
3020	Feeder: P110D	15	LF	\$39.45	\$600		
3021	PP-S1-2 (225 A)	1	EA	\$3,375.00	\$3,400		
3022	Feeder to T18-S: P150B	15	LF	\$37.20	\$600		
3023	75 KVA Transformer-T18-S	1	EA	\$8,250.00	\$8,300		
3024	Feeder: P230D	10	LF	\$66.00	\$700		

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
3025	Feeder : P40D	15	LF	\$16.00	\$200		
3026	RP-S1-4 (225A)	1	EA	\$3,375.00	\$3,400		
3027	Feeder : P40D	15	LF	\$16.00	\$200		
3028	RP-S1-5 (225A)	1	EA	\$3,375.00	\$3,400		
3029	Feeder : P40D	15	LF	\$16.00	\$200		
3030	RP-S1-6 (225A)	1	EA	\$3,375.00	\$3,400		
3031	Feeder to ATS-S-2: P380D-X3	30	LF	\$358.05	\$10,700		
3032	ATS-S-2 (1000 A, 4P) [EC-S??]				Included with Emergency Power System		
3033							
3034	Switchboard - EM-EL-S (1000A, 480V)	1	EA	\$150,000.00	\$150,000		
3035	Feeder from ATS-S-2: P380D-X3	75	LF	\$120.00	\$9,000		
3036	Feeder to MCP-0S1: P110D	100	LF	\$40.00	\$4,000		
3037	MCP-0S1 [EC-S??]	1	EA	\$5,000.00	\$5,000		
3038	Feeder to EL-LP-S2-2: P110D	100	LF	\$40.00	\$4,000		
3039	EL-LP-S2-2 [EC-S2-2]	1	EA	\$5,000.00	\$5,000		
3040	Feeder to T15-S: P70B	15	LF	\$40.00	\$600		
3041	30KVA Transformer - T15-S	1	EA	\$5,000.00	\$5,000		
3042	Feeder to EL-RP-S2-2: P95D	15	LF	\$40.00	\$600		
3043	EL-RP-S2-2	1	EA	\$5,000.00	\$5,000		
3044	Feeder to IT-S2-1: P70D	15	LF	\$40.00	\$600		
3045	IT-S2-1 [EC-S??]	1	EA	\$5,000.00	\$5,000		
3046	Feeder to EL-LP-S2-1: P110D	270	LF	\$40.00	\$10,800		
3047	EL-LP-S2-1 [EC-S2-1]	1	EA	\$5,000.00	\$5,000		
3048	Feeder to T14-S: P70B	15	LF	\$40.00	\$600		
3049	30KVA Transformer - T14-S	1	EA	\$5,000.00	\$5,000		
3050	Feeder to EL-RP-S2-1: P95D	15	LF	\$40.00	\$600		
3051	EL-RP-S2-1	1	EA	\$5,000.00	\$5,000		
3052	Feeder to EL-LP-S1-3: 110D	175	LF	\$40.00	\$7,000		
3053	EL-LP-S1-3 [EC-S1-3]	1	EA	\$5,000.00	\$5,000		
3054	Feeder to T13-S: P70B	15	LF	\$40.00	\$600		
3055	30KVA Transformer - T13-S	1	EA	\$5,000.00	\$5,000		
3056	Feeder to EL-RP-S1-3: P95D	15	LF	\$40.00	\$600		
3057	EL-RP-S1-3	1	EA	\$5,000.00	\$5,000		
3058	Feeder to EL-LP-S1-2: 110D	290	LF	\$40.00	\$11,600		
3059	EL-LP-S1-2 [EC-S1-2]	1	EA	\$5,000.00	\$5,000		
3060	Feeder to T12-S: P70B	15	LF	\$40.00	\$600		
3061	30KVA Transformer - T12-S	1	EA	\$5,000.00	\$5,000		
3062	Feeder to EL-RP-S1-2: P95D	15	LF	\$40.00	\$600		
3063	EL-RP-S1-2	1	EA	\$5,000.00	\$5,000		
3064	Feeder to 80 KVA UPS: P175D	15	LF	\$40.00	\$600		
3065	80 KVA UPS [EC-S??]				with Security System		
3066	Feeder to EL-LP-S1-1: 110D	400	LF	\$40.00	\$16,000		
3067	EL-LP-S1-1 [EC-S1-1]	1	EA	\$5,000.00	\$5,000		
3068	Feeder to T11-S: P70B	15	LF	\$40.00	\$600		

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JetBlue Terminal 5  
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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
3069	30KVA Transformer - T11-S	1	EA	\$5,000.00	\$5,000		
3070	Feeder to EL-RP-S1-1: P95D	15	LF	\$40.00	\$600		
3071	EL-RP-S1-1	1	EA	\$5,000.00	\$5,000		
3072	Feeder to IT-S1-1: P70D	15	LF	\$40.00	\$600		
3073	IT-S2-1 [EC-S??]	1	EA	\$5,000.00	\$5,000		
3074							
3075	<b>East Side</b>						
3076	Incoming Service						
3077	Feeder #1 : 5KV Cables					with Site Work	
3078	Feeder #2: 5KV Cables					with Site Work	
3079	Feeder #3: 5KV Cables					with Site Work	
3080	Feeder #4: 5KV Cables					with Site Work	
3081	Feeder #5: 5KV Cables					with Site Work	
3082	Spot Network						
3083	Metering						
3084	Current Transformers	5	EA	\$2,500.00	\$12,500		
3085	Totalizing Meter	1	EA	\$5,000.00	\$5,000		
3086	Wire & Connections					Included	
3087	HV Switches with Key Interlock	5	EA	\$50,000.00	\$250,000		
3088	Feeder to T1-E: 1 Set - 3#500 + 4/0G - 4"C	15	LF	\$107.00	\$1,600		
3089	1333KVA Transformer-T1-E	1	EA	\$150,000.00	\$150,000		
3090	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	\$631.25	\$9,500		
3091	Network Protectors/Disconnect Switch	1	EA	\$27,000.00	\$27,000		
3092	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	\$631.25	\$15,800		
3093	Feeder to T2-E: 1 Set - 3#500 + 4/0G - 4"C	15	LF	\$107.00	\$1,600		
3094	1333KVA Transformer-T2-E	1	EA	\$150,000.00	\$150,000		
3095	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	\$631.25	\$9,500		
3096	Network Protectors/Disconnect Switch	1	EA	\$27,000.00	\$27,000		
3097	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	\$631.25	\$15,800		
3098	Feeder to T3-E: 1 Set - 3#500 + 4/0G - 4"C	15	LF	\$107.00	\$1,600		
3099	1333KVA Transformer-T3-E	1	EA	\$150,000.00	\$150,000		
3100	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	\$631.25	\$9,500		
3101	Network Protectors/Disconnect Switch	1	EA	\$27,000.00	\$27,000		
3102	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	\$631.25	\$15,800		
3103	Feeder to T4-E: 1 Set - 3#500 + 4/0G - 4"C	15	LF	\$107.00	\$1,600		
3104	1333KVA Transformer-T4-E	1	EA	\$150,000.00	\$150,000		
3105	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	\$631.25	\$9,500		
3106	Network Protectors/Disconnect Switch	1	EA	\$27,000.00	\$27,000		
3107	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	\$631.25	\$15,800		
3108	Feeder to T5-E: 1 Set - 3#500 + 4/0G - 4"C	15	LF	\$107.00	\$1,600		
3109	1333KVA Transformer-T5-E	1	EA	\$150,000.00	\$150,000		
3110	Load Side Feeder: 5 Sets - 4#500 + 1#500G - 4"C	15	LF	\$631.25	\$9,500		
3111	Network Protectors/Disconnect Switch	1	EA	\$27,000.00	\$27,000		
3112	Feeder to Collector Bus: 5 Sets - 4#500 + 1#500G - 4"C	25	LF	\$631.25	\$15,800		

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
3113	Collector Bus (5000A, 480V, 3P)	5	EA	\$75,000.00	\$375,000		
3114	Busway #1	20	LF	\$2,000.00	\$40,000		
3115	Main Fuse	3	EA	\$500.00	\$1,500		
3116	Tap Box				Included		
3117	Bus Elbow				Included		
3118	Bus Stab Connection				Included		
3119	Feeder to Switchgear - SWGR-N-1				Included		
3120	Busway #2	20	LF	\$2,000.00	\$40,000		
3121	Main Fuse	3	EA	\$500.00	\$1,500		
3122	Tap Box				Included		
3123	Bus Elbow				Included		
3124	Bus Stab Connection				Included		
3125	Feeder to Switchgear - SWGR-N-1				Included		
3126							
3127	Switchgear - SWGR-E-1 (5000A, 480V)	1	EA	\$250,000.00	\$250,000		
3128	Line Side Tap Feeder #1: P40B	25	LF	\$16.00	\$400		
3129	30 A Fuse Switch				with Switchgear		
3130	Normal Feeder to ATS-S-3: P70B	15	LF	\$24.30	\$400		
3131	ATS-E-3 (60A, 4P) [EC-N??]				with EMPS		
3132	Feeder from Emergency Power Generation: P70B				with EMPS		
3133	Feeder to Transformer T-21-N: P40D	10	LF	\$16.00	\$200		
3134	15 KVA- T-21-S [EC-N??]	1	EA	\$1,650.00	\$2,000		
3135	Feeder to CU Bus	10	LF	\$16.00	\$200		
3136	Bus Duct (3P, 4W, CU)	1	EA	\$2,500.00	\$2,500		
3137	3P Fused Cutout Boxes				with Line Side Feeder		
3138	Load Side Circuit to FACP	4	EA	\$1,000.00	\$4,000		
3139	4000 A Tiebreaker				with Switchgear		
3140	Horizontal Bus between SWGR-N-1 & SWGR-N-2	15	LF	\$2,000.00	\$30,000		
3141	Transient Voltage Surge Suppressor				Included		
3142	Feeder to RET-PP-E2-2: P310D-X3	450	LF	\$302.40	\$136,100		
3143	RET-PP-E2-2 [EC-E2-2]	1	EA	\$5,000.00	\$5,000		
3144	Feeder to T21-E: P230B	15	LF	\$59.25	\$900		
3145	15 KVA Transformer-T21-E	1	EA	\$1,650.00	\$1,700		
3146	Feeder to RET-LV-E2-2: P380G	15	LF	\$126.25	\$1,900		
3147	RET-LV-S1-1	1	EA	\$5,000.00	\$5,000		
3148	Feeder to M-PP-E1-2: P310D-X3	75	LF	\$302.40	\$22,700		
3149	M-PP-E1-2 [EC-E??]	1	EA	\$5,000.00	\$5,000		
3150	Feeder to M-PP-E2-1: P230D-X2	650	LF	\$132.00	\$85,800		
3151	M-PP-E2-1 [EC-E2-1]	1	EA	\$5,000.00	\$5,000		
3152	Feeder to G-PP-E1-1: P310D-X3	75	LF	\$302.40	\$22,700		
3153	G-PP-E1-1 [EC-E??]	1	EA	\$5,000.00	\$5,000		
3154	Feeder to DP-E1-1: P310D-X3	75	LF	\$302.40	\$22,700		
3155	DP-E1-1 (800A, 277/480V) [EC-E1-1]	1	EA	\$16,000.00	\$16,000		
3156	Feeder: P110D	15	LF	\$39.45	\$600		

JetBlue Terminal 5  
 JFK Airport New York, New York  
 60% CD Estimate  
 April 20, 2005

Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
3157	LP-E1-1 (225 A)	1	EA	\$3,375.00	\$3,400		
3158	Feeder : P110D	15	LF	\$39.45	\$600		
3159	LP-E1-2 (225 A)	1	EA	\$3,375.00	\$3,400		
3160	Feeder : P110D	15	LF	\$39.45	\$600		
3161	PP-E1-1 (225 A)	1	EA	\$3,375.00	\$3,400		
3162	Feeder : P150D	15	LF	\$41.45	\$600		
3163	PP-WS-1 (225 A)	1	EA	\$3,375.00	\$3,400		
3164	Feeder to T16-E: P150B	15	LF	\$37.20	\$600		
3165	75 KVA Transformer-T16-E	1	EA	\$8,250.00	\$8,300		
3166	Feeder : P230D	10	LF	\$66.00	\$700		
3167	Feeder : P40D	15	LF	\$16.00	\$200		
3168	RP-E1-1 (225A)	1	EA	\$3,375.00	\$3,400		
3169	Feeder : P40D	15	LF	\$16.00	\$200		
3170	RP-E1-2 (225A)	1	EA	\$3,375.00	\$3,400		
3171	Feeder : P40D	15	LF	\$16.00	\$200		
3172	RP-E1-3 (225A)	1	EA	\$3,375.00	\$3,400		
3173	Feeder to DP-E2-2: P285D-X3	450	LF	\$289.80	\$130,400		
3174	DP-E2-2 (800A, 277/480V) [EC-E2-2]	1	EA	\$16,000.00	\$16,000		
3175	Feeder : P110D	15	LF	\$39.45	\$600		
3176	LP-E2-3 (225 A)	1	EA	\$3,375.00	\$3,400		
3177	Feeder : P110D	15	LF	\$39.45	\$600		
3178	PP-E2-2 (225 A)	1	EA	\$3,375.00	\$3,400		
3179	Feeder to T18-E: P150B	15	LF	\$37.20	\$600		
3180	75 KVA Transformer-T18-E	1	EA	\$8,259.00	\$8,300		
3181	Feeder : P230D	10	LF	\$66.00	\$700		
3182	Feeder : P40D	15	LF	\$16.00	\$200		
3183	RP-E2-4 (225A)	1	EA	\$3,375.00	\$3,400		
3184	Feeder : P40D	15	LF	\$16.00	\$200		
3185	RP-E2-5 (225A)	1	EA	\$3,375.00	\$3,400		
3186	Feeder to ATS-E-1: P285D-X3	30	LF	\$289.80	\$8,700		
3187	ATS-E-1 [EC-E??]						Included with Emergency Power System
3188							
3189	Switchboard - EM-LSL-E (1000A, 480V)	1	EA	\$150,000.00	\$150,000		
3190	Feeder from ATS-E-1: P380D-X3	75	LF	\$120.00	\$9,000		
3191	Feeder to PDP-MCP-8: P380D-X3	75	LF	\$120.00	\$9,000		
3192	Disconnect Switch - PDP-MCP-8	1	EA	\$5,000.00	\$5,000		
3193	Feeder to LSL-MPP-E2-2: P230D-X2	40	LF	\$80.00	\$3,200		
3194	LSL-MPP-E2-2 [EC-E2-3]	1	EA	\$5,000.00	\$5,000		
3195	Feeder to LSL-MPP-E2-1: P230D-X2	425	LF	\$80.00	\$34,000		
3196	LSL-MPP-E2-1 [EC-E2-2]	1	EA	\$5,000.00	\$5,000		
3197	Feeder to T6-E: P95B	100	LF	\$100.00	\$10,000		
3198	30 KVA Transformer-T6-E [EC-E1-1]	1	EA	\$5,000.00	\$5,000		
3199	Feeder to LSL-RP-E1-1: P95D	15	LF	\$100.00	\$1,500		
3200	LSL-RP-E1-1 [EC-E1-1]	1	EA	\$5,000.00	\$5,000		

JetBlue Terminal 5  
 JFK Airport New York, New York  
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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
3201	Feeder to LSL-LP-E1-1: P110D	15	LF	\$40.00	\$600		
3202	LSL-LP-E1-1 [EC-E1-1]	1	EA	\$5,000.00	\$5,000		
3203	Feeder to T8-E: P95B	650	LF	\$100.00	\$65,000		
3204	30 KVA Transformer-T8-E [EC-E2-1]	1	EA	\$5,000.00	\$5,000		
3205	Feeder to LSL-RP-E2-1: P95D	15	LF	\$100.00	\$1,500		
3206	LSL-RP-E2-1 [EC-E2-1]	1	EA	\$5,000.00	\$5,000		
3207	Feeder to LSL-LP-E2-1: P110D	15	LF	\$40.00	\$600		
3208	LSL-LP-E2-1 [EC-E2-1]	1	EA	\$5,000.00	\$5,000		
3209	Feeder to T10-E: P95B	40	LF	\$100.00	\$4,000		
3210	30 KVA Transformer-T10-E [EC-E2-3]	1	EA	\$5,000.00	\$5,000		
3211	Feeder to LSL-RP-E2-3: P95D	15	LF	\$100.00	\$1,500		
3212	LSL-RP-E2-3 [EC-E2-3]	1	EA	\$5,000.00	\$5,000		
3213	Feeder to LSL-LP-E2-3: P110D	15	LF	\$40.00	\$600		
3214	LSL-LP-E2-3 [EC-E2-3]	1	EA	\$5,000.00	\$5,000		
3215							
3216	Switchgear - SWGR-E-2 (5000A, 480V)	1	EA	\$250,000.00	\$250,000		
3217	Feeder to G-PP-E1-4: P310D-X4	100	LF	\$406.20	\$40,600		
3218	G-PP-E1-4 [EC-E??]	1	EA	\$5,000.00	\$5,000		
3219	Feeder to M-PP-E2-3: P230D-X2	40	LF	\$132.00	\$5,300		
3220	M-PP-E2-3 [EC-E2-3]	1	EA	\$5,000.00	\$5,000		
3221	Feeder to RET-PP-E2-1: P230D-X2	650	LF	\$132.00	\$85,800		
3222	RET-PP-E2-1 [EC-E2-1]	1	EA	\$5,000.00	\$5,000		
3223	Feeder to T20-E: P380B	15	LF	\$99.20	\$1,500		
3224	30 KVA Transformer-T20-E	1	EA	\$3,300.00	\$3,300		
3225	Feeder to RET-LV-E2-1	15	LF	\$100.00	\$1,500		
3226	RET-LV-E2-1	1	EA	\$5,000.00	\$5,000		
3227	Feeder to M-PP-E1-3: P285D-X3	100	LF	\$96.60	\$9,700		
3228	M-PP-E1-3 [EC-E??]	1	EA	\$5,000.00	\$5,000		
3229	Feeder to M-PP-E2-2: P310D-X4	40	LF	\$101.55	\$4,100		
3230	M-PP-E2-2 [EC-E2-3]	1	EA	\$5,000.00	\$5,000		
3231	Feeder to G-PP-E1-3: P285D	100	LF	\$94.85	\$9,500		
3232	G-PP-E1-3 [EC-E??]	1	EA	\$5,000.00	\$5,000		
3233	Feeder to G-PP-E1-2: P285D-X3	100	LF	\$96.60	\$9,700		
3234	G-PP-E1-2 [EC-E??]	1	EA	\$5,000.00	\$5,000		
3235	Feeder to DP-E2-3: P285D-X3	40	LF	\$289.80	\$11,600		
3236	DP-E2-3 (800A, 480V [EC-E2-3])	1	EA	\$16,000.00	\$16,000		
3237	Feeder : P110D	15	LF	\$39.45	\$600		
3238	LP-E2-5 (225 A)	1	EA	\$13.00	\$0		
3239	Feeder : P110D	15	LF	\$39.45	\$600		
3240	PP-E2-3 (225 A)	1	EA	\$3,375.00	\$3,400		
3241	Feeder to T19-E: P150B	15	LF	\$37.20	\$600		
3242	75 KVA Transformer-T19-E	1	EA	\$8,250.00	\$8,300		
3243	Feeder : P230D	10	LF	\$66.00	\$700		
3244	Feeder : P40D	15	LF	\$16.00	\$200		

**Turner** ≡ Aviation

JetBlue Terminal 5  
 JFK Airport New York, New York  
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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
3245	RP-E2-7 (225A)	1	EA	\$3,375.00	\$3,400		
3246	Feeder : P40D	15	LF	\$16.00	\$200		
3247	RP-E2-8 (225A)	1	EA	\$3,375.00	\$3,400		
3248	Feeder to DP-E2-1: P285D-X3	650	LF	\$289.80	\$188,400		
3249	DP-E2-1 (800A, 480V) [EC-E2-1]	1	EA	\$16,000.00	\$16,000		
3250	Feeder: P110D	15	LF	\$39.45	\$600		
3251	LP-E2-1	1	EA	\$5,000.00	\$5,000		
3252	Feeder: P110D	15	LF	\$39.45	\$600		
3253	PP-E2-1	1	EA	\$5,000.00	\$5,000		
3254	Feeder to T17-E: P150B	15	LF	\$37.20	\$600		
3255	75 KVA Transformer-T17-E	1	EA	\$8,250.00	\$8,300		
3256	Feeder : P230D	10	LF	\$66.00	\$700		
3257	Feeder : P40D	15	LF	\$16.00	\$200		
3258	RP-E2-1 (225A)	1	EA	\$3,375.00	\$3,400		
3259	Feeder : P40D	15	LF	\$16.00	\$200		
3260	RP-E2-2 (225A)	1	EA	\$3,375.00	\$3,400		
3261	Feeder to ATS-E-2: P285D-X3	30	LF	\$289.80	\$8,700		
3262	ATS-E-2 [EC-E??]						Included with Emergency Power System
3263							
3264	Switchboard - EM-EL-E (1000A, 480V)						with Above
3265	Feeder from ATS-E-2: P380D-X3	100	LF	\$40.00	\$4,000		
3266	Feeder to EL-LP-E2-3: P110D	40	LF	\$40.00	\$1,600		
3267	EL-LP-E2-3 [EC-E2-3]	1	EA	\$5,000.00	\$5,000		
3268	Feeder to T14-E: P70B	15	LF	\$40.00	\$600		
3269	30KVA Transformer - T14-E	1	EA	\$5,000.00	\$5,000		
3270	Feeder to EL-RP-E2-3: P95D	15	LF	\$40.00	\$600		
3271	EL-RP-E2-3	1	EA	\$5,000.00	\$5,000		
3272	Feeder to EL-LP-E2-2: P110D	450	LF	\$40.00	\$18,000		
3273	EL-LP-E2-2 [EC-E2-2]	1	EA	\$5,000.00	\$5,000		
3274	Feeder to T13-E: P70B	15	LF	\$40.00	\$600		
3275	30KVA Transformer - T13-E	1	EA	\$5,000.00	\$5,000		
3276	Feeder to EL-RP-E2-2: P95D	15	LF	\$40.00	\$600		
3277	EL-RP-E2-2	1	EA	\$5,000.00	\$5,000		
3278	Feeder to IT-E2-2: P70D	15	LF	\$40.00	\$600		
3279	IT-E2-2 [EC-E??]	1	EA	\$5,000.00	\$5,000		
3280	Feeder to EL-LP-E2-1: 110D	650	LF	\$40.00	\$26,000		
3281	EL-LP-E2-1 [EC-E2-1]	1	EA	\$5,000.00	\$5,000		
3282	Feeder to T12-E: P70B	15	LF	\$40.00	\$600		
3283	30KVA Transformer - T12-E	1	EA	\$5,000.00	\$5,000		
3284	Feeder to EL-RP-E2-1: P95D	15	LF	\$40.00	\$600		
3285	EL-RP-E2-1	1	EA	\$5,000.00	\$5,000		
3286	Feeder to IT-E2-1: P70D	15	LF	\$40.00	\$600		
3287	IT-E2-1 [EC-E??]	1	EA	\$5,000.00	\$5,000		
3288	Feeder to EL-LP-E1-1: 110D	100	LF	\$40.00	\$4,000		

JetBlue Terminal 5  
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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	3289 EL-LP-E1-1 [EC-E1-1]	1	EA	\$5,000.00	\$5,000		
	3290 Feeder to T11-E: P70B	15	LF	\$40.00	\$600		
	3291 30KVA Transformer - T11-E	1	EA	\$5,000.00	\$5,000		
	3292 Feeder to EL-RP-E1-12: P95D	15	LF	\$40.00	\$600		
	3293 EL-RP-E1-1	1	EA	\$5,000.00	\$5,000		
	3294 Feeder to IT-E1-1: P70D	15	LF	\$40.00	\$600		
	3295 IT-E1-1 [EC-E??]	1	EA	\$5,000.00	\$5,000		
V	E163 Delete K13 Requirement	(1)	LS	\$29,000.00	(29,000)		
V	E165 Reduce quantity of Lighting panels	(1)	LS	\$53,000.00	(53,000)		
	3296						
	3297 <b>Emergency Power System [E03.04]</b>						
V	E164 3298 750 KW Emergency Generator (180 V, 3PH), Diesel, Air-Cooled, Outr	1,000	KW	\$675.00	675,000		
V	E164 3299 ATS Circuit Breaker - Factory Mounted with Enclosure				Included		
V	E164 3300 Fuel Oil Delivery System				Included		
V	E164 3301 Fuel Storage Integral to Skid				Included		
V	E164 3302 Muffler - Furnish Only				Included		
V	E164 3303 Installation				w/HVAC		
V	E164 3304 Diesel Fuel				Included		
V	E164 3305 Fused Disconnects				Included		
V	E164 3306 750 KW Emergency Generator (180 V, 3PH), Diesel, Air-Cooled, Outr	1,000	KW	\$675.00	675,000		
V	E164 3307 ATS Circuit Breaker - Factory Mounted with Enclosure				Included		
V	E164 3308 Fuel Oil Delivery System				Included		
V	E164 3309 Fuel Storage Integral to Skid				Included		
V	E164 Muffler - Furnish Only				Included		
V	E164 Installation				w/HVAC		
V	E164 Diesel Fuel				Included		
V	E164 Fused Disconnects				Included		
V	E164 750 KW Emergency Generator (180 V, 3PH), Diesel, Air-Cooled, Outr	750	KW	\$750.00	563,000		
V	E164 ATS Circuit Breaker - Factory Mounted with Enclosure				Included		
V	E164 Fuel Oil Delivery System				Included		
V	E164 Fuel Storage Integral to Skid				Included		
V	E164 Muffler - Furnish Only				Included		
V	E164 Installation				w/HVAC		
V	E164 Diesel Fuel				Included		
V	E164 Fused Disconnects				Included		
V	E164 Emergency Feeder to Fire Pump Controller - North:	150	LF	\$86.00	13,000		
V	E164 Receive & Install Fire Pump ATS				w/Service & Distribution		
V	E164 Feeder to Fire Pump Controller - South:	150	LF	\$86.00	13,000		
V	E164 Receive & Install Fire Pump ATS				w/Service & Distribution		
	Connection from ATS to Fire Pump	1	EA	\$3,000.00	\$3,000		
	3310 Feeder to ATS-N-3: P70B	150	LF	\$24.30	\$4,000		
	3311 ATS-N-3 (60A, 4P)	1	EA	\$5,000.00	\$5,000		
	3312 Feeder to ATS-S-3: P70B	150	LF	\$24.30	\$4,000		
	3313 ATS-S-3 (60A, 4P)	1	EA	\$5,000.00	\$5,000		

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 JFK Airport New York, New York  
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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank Building System		Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	3314 Feeder to ATS-E-3: P70B	150	LF	\$24.30	\$4,000		
	3315 ATS-E-3 (60A, 4P)	1	EA	\$5,000.00	\$5,000		
	3320 Normal Feeder to ATS-N-1				with SWGR-N-1		
	3321 Feeder to ATS-N-2: P380D	100	LF	\$353.55	\$35,400		
	3322 ATS-N-2 (1000A, 4P, w/Isolation Bypass Switch)	1	EA	\$35,000.00	\$35,000		
	3323 Normal Feeder to ATS-N-2				with SWGR-N-2		
	3325 ATS-S-1 (1000A, 4P, w/Isolation Bypass Switch)	1	EA	\$35,000.00	\$35,000		
	3326 Normal Feeder to ATS-S-1				with SWGR-S-1		
	3328 ATS-S-2 (1000A, 4P, w/Isolation Bypass Switch)	1	EA	\$35,000.00	\$35,000		
	3329 Normal Feeder to ATS-S-2				with SWGR-S-2		
	3331 ATS-E-1 (800A, 4P, w/Isolation Bypass Switch)	1	EA	\$28,000.00	\$28,000		
	3332 Normal Feeder to ATS-E-1				with SWGR-E-1		
	3334 ATS-E-2 (800A, 4P, w/Isolation Bypass Switch)	1	EA	\$28,000.00	\$28,000		
	3335 Normal Feeder to ATS-E-2				with SWGR-E-2		
	3336 ATS Contol Wiring	5,650	LF	\$15.50	\$87,600		
V	E164 3326 Feeder to ATS-N-1:	100	LF	\$475.00	47,500		
V	E164 3327 Feeder to ATS-N-2:	100	LF	\$475.00	47,500		
V	E164 3328 Feeder to ATS-S-1:	150	LF	\$475.00	71,300		
V	E164 3329 Feeder to ATS-S-2:	150	LF	\$475.00	71,300		
V	E164 3330 Feeder to ATS-E-1:	150	LF	\$353.00	53,000		
V	E164 3331 Feeder to ATS-E-2:	150	LF	\$353.00	53,000		
V	E164 3332 Fire Alarm Fuse cutouts (North & South)				with Service & Distribution		
S	E53 3333 Add cost for 80 kva UPS in MCR	1	LS	\$100,000.00	\$100,000		
	3334						
	3335						
	3336 ATS Contol Wiring	5,650	LF	\$15.50	\$87,600		
	3337						
	3338						
	3339 Subtotal: Service & Power Distribution					\$15,741,400	
	3340						
	3341 Lighting						
S	E54A/B 3342 FA Wall recessed Floodlight	69	EA	\$1,080.00	\$75,000		
S	E54A/B 3343 FAA Striplight Behind Glass	482	LF	\$36.00	\$17,000		
S	E54A/B 3344 FAB Recessed 5" D. Downlight/Wallwasher	137	EA	\$246.24	\$34,000		
S	E54A/B 3345 FAC Cove Mounted Stiplight		w/Tube LF		w/Tube	w/Tube	
S	E54A/B 3346 FAD Cove Mounted Stiplight		w/Tube EA		w/Tube	w/Tube	
S	E54A/B 3347 FAE Recessed downlight		w/Air Train EA		w/Air Train	w/Air Train	
S	E54A/B 3348 FAF Recessed Downlight		w/Links LF		w/Links	w/Links	
S	E54A/B 3349 FAG Spotlight	5	EA	\$1,584.00	\$8,000		
S	E54A/B 3350 FAH Linear Pendant Uplight		w/Air Train EA		w/Air Train	w/Air Train	
S	E54A/B 3351 FAJ Recessed Downlight	187	EA	\$633.60	\$118,000		
S	E54A/B 3352 FB Pole Mounted Floodlight	37	EA	\$2,016.00	\$75,000		
S	E54A/B 3353 Poles	37	EA	\$1,728.00	\$64,000		
S	E54A/B 3354 FC Semi-Recessed LED	125	EA	\$276.48	\$35,000		

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	E54A/B 3355 FD Recessed 5" D. Downlight	929	EA	\$218.88	\$203,000		
S	E54A/B 3356 FE Surface mounted Uplight	155	LF	\$72.00	\$11,000		
S	E54A/B 3357 FF Surface mounted Striplight	537	LF	\$79.20	\$43,000		
S	E54A/B 3358 FG Linear Cove Uplight	684	LF	\$97.92	\$67,000		
S	E54A/B 3359 FH Wall mounted Uplight	40	EA	\$815.04	\$33,000		
S	E54A/B 3360 FJ Strip Light in Cavity	205	LF	\$74.88	\$15,000		
S	E54A/B 3361 FK Strip Light in Ceiling	575	LF	\$108.00	\$62,000		
S	E54A/B 3362 FL Recessed Linear Wallwasher	28	LF	\$133.92	\$4,000		
S	E54A/B 3363 FM Recessed 5" D. Adjustable Downlight	43	EA	\$540.00	\$23,000		
S	E54A/B 3364 FN Pendant Uplight/Downlight	32	EA	\$1,944.00	\$62,000		
S	E54A/B 3365 Rods	2,100	LF	\$216.00	\$454,000		
S	E54A/B 3366 FP Cove Mounted Uplight	65	LF	\$234.72	\$15,000		
S	E54A/B 3367 FQ Floor Mounted Cylindrical Pole	45	EA	\$4,320.00	\$194,000		
S	E54A/B 3368 Poles	45	EA	\$2,160.00	\$97,000		
S	E54A/B 3369 FR Recessed Uplight	40	EA	\$669.60	\$27,000		
S	E54A/B 3370 FS Cove Mounted Striplight	1,152	LF	\$44.64	\$51,000		
S	E54A/B 3371 FT Cove Mounted Striplight	1,961	LF	\$54.72	\$107,000		
S	E54A/B 3372 FV Semi Recessed Striplight	703	EA	\$288.00	\$202,000		
S	E54A/B 3373 FW Recessed Downlight	409	EA	\$360.00	\$147,000		
S	E54A/B 3374 FX Recessed Linear Downlight	1,184	EA	\$419.04	\$496,000		
S	E54A/B 3375 FY Cove Mounted Striplight	770	LF	\$54.00	\$42,000		
S	E54A/B 3376 F1 2'x4' T5 Flourescent	524	EA	\$264.96	\$139,000		
S	E54A/B 3377 F2 4' T8 Flourscent	113	EA	\$200.16	\$23,000		
S	E54A/B 3378 AA Turret Industrial	274	EA	\$149.76	\$41,000		
S	E54A/B 3379 AB Enclosed Industrial	37	EA	\$141.12	\$5,000		
S	E54A/B 3380 AC Lensed Troffer	15	EA	\$108.00	\$2,000		
S	E54A/B 3381 AD Turret Industrial w/EM Backup	55	EA	\$149.76	\$8,000		
S	E54A/B 3382 AE Turret Industrial	554	EA	\$149.76	\$83,000		
S	E54A/B 3383 AF Enclosed Industrial	6	EA	\$141.12	\$1,000		
S	E54A/B 3384 -- Revolving Door Lighting	N/C	EA	N/C	N/C		
S	E54A/B 3385						
S	E54A/B 3386						
S	E54A/B 3387						
S	E54A/B 3388						
S	E54A/B 3389						
S	E54A/B 3390						
S	E54A/B 3391						
S	E54A/B 3392						
S	E54A/B 3393						
S	E54A/B 3394						
S	E54A/B 3395						
S	E54A/B 3396						
S	E54A/B 3397						
S	E54A/B 3398						

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
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S	E54A/B	3399					
S	E54A/B	3400					
S	E54A/B	3401					
S	E54A/B	3402					
S	E54A/B	3403					
S	E54A/B	3404					
S	E54A/B	3405					
S	E54A/B	3406					
S	E54A/B	3407					
S	E54A/B	3408					
S	E54A/B	3409					
S	E54A/B	3410					
S	E54A/B	3411					
S	E54A/B	3412					
S	E54A/B	3413					
S	E54A/B	3414					
S	E54A/B	3415					
S	E54A/B	3416					
S	E54A/B	3417					
S	E54A/B	3418					
S	E54A/B	3419					
S	E54A/B	3420					
S	E54A/B	3421					
S	E54A/B	3422					
S	E54A/B	3423					
S	E54A/B	3424					
S	E54A/B	3425					
S	E54A/B	3426					
S	E54A/B	3427					
S	E54A/B	3428					
S	E54A/B	3429					
S	E54A/B	3430					
S	E54A/B	3431					
S	E54A/B	3432					
S	E54A/B	3433					
S	E54A/B	3434					
S	E54A/B	3435					
S	E54A/B	3436					
S	E54A/B	3437					
S	E54A/B	3438					
S	E54A/B	3439					
S	E54A/B	3440					
S	E54A/B	3441					
S	E54A/B	3442					

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Building Area: 639,470 GSF

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S	E54A/B	3443					
S	E54A/B	3444					
S	E54A/B	3445					
S	E54A/B	3446					
S	E54A/B	3447					
S	E54A/B	3448					
S	E54A/B	3449					
S	E54A/B	3450					
S	E54A/B	3451					
S	E54A/B	3452					
S	E54A/B	3453					
S	E54A/B	3454					
S	E54A/B	3455					
S	E54A/B	3456					
S	E54A/B	3457					
S	E54A/B	3458					
S	E54A/B	3459					
S	E54A/B	3460					
S	E54A/B	3461					
S	E54A/B	3462					
S	E54A/B	3463					
S	E54A/B	3464					
S	E54A/B	3465					
S	E54A/B	3466					
S	E54A/B	3467					
S	E54A/B	3468					
S	E54A/B	3469					
S	E54A/B	3470					
S	E54A/B	3471					
S	E54A/B	3472					
S	E54A/B	3473					
S	E54A/B	3474					
S	E54A/B	3475					
S	E54A/B	3476					
S	E54A/B	3477					
S	E54A/B	3478					
S	E54A/B	3479					
S	E54A/B	3480					
S	E54A/B	3481					
S	E54A/B	3482					
S	E54A/B	3483					
S	E54A/B	3484					
S	E54A/B	3485					
S	E54A/B	3486					

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
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S	E54A/B	3487					
S	E54A/B	3488					
S	E54A/B	3489					
S	E54A/B	3490					
S	E54A/B	3491					
S	E54A/B	3492					
S	E54A/B	3493					
S	E54A/B	3494					
S	E54A/B	3495					
S	E54A/B	3496					
S	E54A/B	3497					
S	E54A/B	3498					
S	E54A/B	3499					
S	E54A/B	3500					
S	E54A/B	3501					
S	E54A/B	3502					
S	E54A/B	3503					
S	E54A/B	3504					
S	E54A/B	3505					
S	E54A/B	3506					
S	E54A/B	3507					
S	E54A/B	3508					
S	E54A/B	3509					
S	E54A/B	3510					
S	E54A/B	3511					
S	E54A/B	3512					
S	E54A/B	3513					
S	E54A/B	3514					
S	E54A/B	3515					
S	E54A/B	3516					
S	E54A/B	3517					
S	E54A/B	3518					
S	E54A/B	3519					
S	E54A/B	3520					
S	E54A/B	3521					
S	E54A/B	3522					
S	E54A/B	3523					
S	E54A/B	3524					
S	E54A/B	3525					
S	E54A/B	3526					
S	E54A/B	3527					
S	E54A/B	3528					
S	E54A/B	3529					
S	E54A/B	3530					

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
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S	E54A/B	3531					
S	E54A/B	3532					
S	E54A/B	3533					
S	E54A/B	3534					
S	E54A/B	3535					
S	E54A/B	3536					
S	E54A/B	3537					
S	E54A/B	3538					
S	E54A/B	3539					
S	E54A/B	3540					
S	E54A/B	3541					
S	E54A/B	3542					
S	E54A/B	3543					
S	E54A/B	3544					
S	E54A/B	3545					
S	E54A/B	3546					
S	E54A/B	3547					
S	E54A/B	3548					
S	E54A/B	3549					
S	E54A/B	3550					
S	E54A/B	3551					
S	E54A/B	3552					
S	E54A/B	3553					
S	E54A/B	3554					
S	E54A/B	3555					
S	E54A/B	3556					
S	E54A/B	3557					
S	E54A/B	3558					
S	E54A/B	3559					
S	E54A/B	3560					
S	E54A/B	3561					
S	E54A/B	3562					
S	E54A/B	3563					
S	E54A/B	3564					
S	E54A/B	3565					
S	E54A/B	3566					
S	E54A/B	3567					
S	E54A/B	3568					
S	E54A/B	3569					
S	E54A/B	3570					
S	E54A/B	3571					
S	E54A/B	3572					
S	E54A/B	3573					
S	E54A/B	3574					

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
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S	E54A/B	3575					
S	E54A/B	3576					
S	E54A/B	3577					
S	E54A/B	3578					
S	E54A/B	3579					
S	E54A/B	3580					
S	E54A/B	3581					
S	E54A/B	3582					
S	E54A/B	3583					
S	E54A/B	3584					
S	E54A/B	3585					
S	E54A/B	3586					
S	E54A/B	3587					
S	E54A/B	3588					
S	E54A/B	3589					
S	E54A/B	3590					
S	E54A/B	3591					
S	E54A/B	3592					
S	E54A/B	3593					
S	E54A/B	3594					
S	E54A/B	3595					
S	E54A/B	3596					
S	E54A/B	3597					
S	E54A/B	3598					
S	E54A/B	3599					
S	E54A/B	3600					
S	E54A/B	3601					
S	E54A/B	3602					
S	E54A/B	3603					
S	E54A/B	3604					
S	E54A/B	3605					
S	E54A/B	3606					
S	E54A/B	3607					
S	E54A/B	3608					
S	E54A/B	3609					
S	E54A/B	3610					
S	E54A/B	3611					
S	E54A/B	3612					
S	E54A/B	3613					
S	E54A/B	3614					
S	E54A/B	3615					
S	E54A/B	3616					
S	E54A/B	3617					
S	E54A/B	3618					

**Turner** ≡ Aviation

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	E54A/B 3619						
S	E54A/B 3620						
S	E54A/B 3621						
S	E54A/B 3622						
S	E54A/B 3623						
S	E54A/B 3624						
S	E54A/B 3625						
S	E54A/B 3626						
S	E54A/B 3627						
S	E54A/B 3628						
S	E54A/B 3629						
S	E54A/B 3630						
S	E54A/B 3631						
S	E54A/B 3632						
S	E54A/B 3633						
S	E54A/B 3634						
S	E54A/B 3635						
S	E54A/B 3636						
S	E54A/B 3637						
S	E54A/B 3638						
S	E54A/B 3639						
S	E54A/B 3640						
S	E54A/B 3641						
S	E54A/B 3642						
S	E54A/B 3643						
S	E54A/B 3644						
S	E54A/B 3645						
S	E54A/B 3646						
S	E54A/B 3647						
S	E54A/B 3648						
S	E54A/B 3649						
V	A96C 3650 <u>Shorten Departure Canopy by 15' (6450 SF)</u>						
V	A96C 3651 FC	(26)	EA	\$276.48	(7,000)		
V	A96C 3652 FAJ	(32)	EA	\$633.60	(20,000)		
V	A96C 3653 FF	(24)	LF	\$79.20	(2,000)		
V	A96C 3654 Branch Wiring	(1,600)	LF	\$12.00	(19,000)		
V	A96C 3655 Roadway Lighting (Cat No. Pollux PX 7400MH/15' pole)	8	EA	\$10,000.00	80,000		
V	A96C 3656 RGS Conduit & Wire	640	LF	\$100.00	64,000		
V	A87 3657 <u>Reduce North Concourse by 5040 SF</u>						
V	A87 3658 FV	(15)	EA	\$288.00	(4,000)		
V	A87 3659 FW	(9)	EA	\$360.00	(3,000)		
V	A87 3660 FS	(20)	LF	\$44.64	(1,000)		
V	A87 3661 FT	(56)	LF	\$54.72	(3,000)		

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
V	A87 3662 Branch Wiring	(630)	LF	\$11.00	(7,000)		
V	A87 3663 J-Boxes	(5)	EA	\$50.00	0		
V	A213 3664 <u>Delete SF @ North Floor</u>	(5,690)	GSF	\$2.50	(14,000)		
V	A96C 3665 <u>Shorten Arrival Canopy by 15' (6450 SF)</u>						
V	A96C 3666 FC	(88)	EA	\$276.48	(24,000)		
V	A96C 3667 FAJ	(88)	EA	\$633.60	(56,000)		
V	A96C 3668 FF	(32)	LF	\$79.20	(3,000)		
V	A96C 3669 Branch Wiring	(5,200)	LF	\$12.00	(62,000)		
V	A96C 3670 Roadway Lighting (Cat No. Pollux PX 7400MH/15' pole)	8	EA	\$10,000.00	80,000		
V	A96C 3671 RGS Conduit & Wire	640	LF	\$100.00	64,000		
V	A97B 3672						
V	A97B 3673						
V	A98D 3674 <u>Delete Nose @ Arrivals &amp; Departure Canopy (Option D)</u>						
V	A98D 3675 Downlight Type DAC - 5 per 22 bays	110	EA	\$285.00	31,000		
V	A98D 3676 Branch Wiring	2,750	LF	\$12.00	33,000		
V	A98D 3677 Flood Lighting Type FLA740	22	EA	\$3,000.00	66,000		
V	A98D 3678 Branch Wiring	1,100	LF	\$100.00	110,000		
V	A98D 3679 Add Lighting & Branch Wiring	11,050	EA	\$6.00	66,000		
V	A122 3680 Lighting & Branch Wiring	(1,325)	SF	\$6.00	(8,000)		
S	E54 3681 <u>Conduit &amp; Wiring for Fixtures Above</u>						
S	E54 3682 Fixture Wiring (3#12-3/4" EMT)	44,383	LF	\$10.80	\$479,000		
S	E54 3683 Junction Boxes	1,849	EA	\$50.00	\$92,000		
S	E54 3684 Branch Wiring	47,761	LF	\$10.80	\$516,000		
S	E54 3685 Homeruns (9#12-1" EMT)	8,925	LF	\$14.30	\$128,000		
	3686						
	3687 <u>Allowance for Lighting Not Shown</u>						
	3688 Departure Area						
	3689 Zone 6	17,814	SF	\$10.00	\$178,000		
	3690 Zone 7	3,390	SF	\$10.00	\$34,000		
	3691 Zone 8	4,942	SF	\$10.00	\$49,000		
	3692 Zone 11	8,321	SF	\$10.00	\$83,000		
	3693 Zone 12	3,000	SF	\$10.00	\$30,000		
	3694 Zone 13	4,000	SF	\$10.00	\$40,000		
	3695						
	3696 Arrival Area						
S	E54B 3697 Zone 6	5,250	SF	\$5.00	\$26,000		
S	E54B 3698 Zone 7	5,470	SF	\$5.00	\$27,000		
S	E54B 3699 Zone 8	14,304	SF	\$5.00	\$72,000		
S	E54B 3700 Zone 9	3,132	SF	\$5.00	\$16,000		
S	E54B 3701 Zone 10	31,226	SF	\$5.00	\$156,000		
S	E54B 3702 Zone 11	17,512	SF	\$5.00	\$88,000		
S	E54B 3703 Zone 12	10,406	SF	\$5.00	\$52,000		
S	E54B 3704 Zone 13	8,590	SF	\$5.00	\$43,000		

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	E54B 3705 Zone 14	820	SF	\$5.00	\$4,000		
S	E54B 3706 Zone 16	3,490	SF	\$5.00	\$17,000		
	3707						
	3708 <u>Miscellaneous</u>						
	3709 Exit Lights [Allow 1 per 1,000 SF]	620	EA	\$350.00	\$217,000		
V	A98D 3710 Exterior Building Lighting (FA)	(1)	ALLOW	\$75,000.00	(75,000)		
S	E60 3711 Roof Top Air Handling Units [43 Total]						
S	E60 3712 Units w/Vestibules						w/ AHU's
S	E60 3713 Ciccuits Only						w/ AHU's
	3714 Elevator Pit Lighting	7	ALLOW	\$1,500.00	\$11,000		
	3715 Site Lighting						with Sitework
V	A91 3716 Retail Area Lighting [Bare Minimum]	64,420	SF	\$1.50	\$97,000		
V	A91 3717 Retail Area Lighting [110V Circuit]	1,820	SF	\$2.50	\$5,000		
	3717 Spare Lamps & Accessories	620,977	SF	\$0.15	\$93,000		
	3718 Mock-ups & Samples	620,977	SF	\$0.15	\$93,000		
V	E162 3719 Substitute Standard Lighting Fixtures ILO Custom	(1)	LS	\$1,000,000.00	(1,000,000)		
V	A108B 3720 Lighting Around Marketplace Clearstory	1	ALLOW	10,000.00	\$10,000		
V	A215 3721 Lighting @ Deleted Pop-Up Wall	1	ALLOW	9,000.00	\$9,000		
V	A110B 3722 Add Lighting for the Elimination of the Light Monitors	10,800	ALLOW	12.00	\$130,000		
	3720 <u>Subtotal: Lighting</u>					\$5,164,000	
	3721						
	3722 <u>Lighting Control System Allowance</u>						
	3723 Lighting Control System (Drawing E03.10)	620,977	SF	\$1.00	\$621,000		
	3724 Lighting Control Realy Panels						Included
	3725 Lighting Control Central Processor						Included
	3726 Line Voltage Wiring						Included
	3727 Low Voltage Wiring						Included
	3728 Wall Controls						Included
	3729 Photocells						Included
	3730 Switches						Included
	3731 BMS Interface						Included
	3732 Occupancy Sensors (Drawing E08.03)						Included
	3733 Power Packs						Included
	3734 Spare Materials (Spec 16570 p.5)						Included
	3735 Programming						Included
	3736 Extended Warranty (10 Year) Spec 16570-p.4)						Included
	3737 Commissioning (Drawing E03.10 Accept. Mfrt Note #3)						Included
	3738 Digital Time Clocks						Not Included
	3739 Dimming System						Not Included
	3740						
	3741 <u>Subtotal: Lighting Control System Allowance</u>					\$621,000	
	3742						

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	<b>3743 Convenience Power</b>						
V	A87 3744	2,478	EA	\$175.00	\$434,000		
	3745				Included		
V	A87 3746	1,237	EA	\$200.00	\$247,000		
V	A87 3747	411	EA	\$275.00	\$113,000		
	3748				Included		
	3749	41	EA	\$1,000.00	\$41,000		
	3750	208,000	LF	\$10.80	\$2,246,000		
S	E49				<u>Add Operations Power for Jetway Bridge Areas</u>		
S	E49				North Wing		
S	E49	6	EA	125	\$800.00		
S	E49	6	EA	60	\$400.00		
S	E49	6	EA	100	\$600.00		
S/V	E49/E172	4500	LF	25	\$112,500.00		
S	E49				South Wing		
S	E49	8	EA	125	\$1,000.00		
S	E49	8	EA	60	\$500.00		
S	E49	8	EA	100	\$800.00		
S/V	E49/E172	6000	LF	25	\$150,000.00		
S	E49				East Wing		
S	E49	11	EA	125	\$1,400.00		
S	E49	11	EA	60	\$700.00		
S	E49	11	EA	100	\$1,100.00		
S/V	E49/E172	7425	LF	25	\$185,600.00		
S	E51	55000	SF	2.5	\$137,500.00		
	3751						
	3752					\$3,673,900	
	3753						
	<b>3754 Equipment Connections</b>						
	3755						
	3756						
	3757						
V	H150 3758	2	EA	\$5,500.00	\$11,000		
	3759				Not Required		
	3760	2	EA	\$5,500.00	\$11,000		
	3761	2	EA	\$1,500.00	\$3,000		
	3762						
	3763	1	EA	\$3,500.00	\$4,000		
	3764	1	EA	\$3,500.00	\$4,000		
	3765	2	EA	\$3,500.00	\$7,000		
	3766						
	3767						
V	H133 3768	11	EA	\$3,500.00	\$39,000		
	3769						

**Turner** ≡ Aviation

JetBlue Terminal 5  
 JFK Airport New York, New York  
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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	3770 Air Handling Units	43	TOTAL				
	3771 Supply Fans	43	EA	\$5,500.00	\$237,000		
	3772 VFD's (Furnished by HVAC)	1,990	HP				
	3773 Return Fans	43	EA	\$5,500.00	\$237,000		
	3774 VFD's (Furnished by HVAC)	1,750	HP				
	3775						
	3776 Airside equipment						
V	A122 3777 Exhaust Fans	66	EA	\$2,500.00	\$165,000		
	3778 Smoke Purge Fans [14 @ 5 HP]	14	EA	\$3,500.00	\$49,000		
	3779 VAV's	189	EA	\$1,500.00	\$284,000		
	3780 Man Cooler Fans	46	EA	\$2,500.00	\$115,000		
	3781 Transfer Fans	25	EA	\$2,500.00	\$63,000		
S	H27 Delete AC Units serving Elevator Machine Rooms	8	EA	\$2,500.00	20,000		
V	H139 Delete AHU Ductwork & VAV's serving Telecom Closet				Not Required		
	3782 Elevator Machine Room AC	3	EA	\$2,500.00	\$8,000		
	3783 Switchboard Room Ventilation	3	EA	\$2,500.00	\$8,000		
	3784 Gas Meter Room Ventilation	1	EA	\$2,500.00	\$3,000		
	3785 Fire Pump Room Ventilation	1	EA	\$2,500.00	\$3,000		
	3786 Packaged Heat Transfer Module	1	EA	\$5,000.00	\$5,000		
	3787 Toilet Exhaust Fans	17	EA	\$2,500.00	\$43,000		
	3788 Ventilation Air VAHU's	4	EA	\$2,500.00	\$10,000		
S	H34 3789 Fire Smoke Dampers [1 per 1000 SF]	(621)	EA	\$550.00	(342,000)		
S	H34 Power for FSD's (Shown on drawings)	88	EA	\$550.00	48,000		
S	H34 Power for FSD's (Not shown on drawings)	1	LS	\$50,000.00	50,000		
	3790 Stair Pressurization Fans				Not Included		
	3791						
	3792 Waterside Equipment						
V	H147 3793 Fan Coil Units				Not Included		
V	H147 Electric Unit Heaters	20	EA	\$2,000.00	\$40,000		
	3794 Elevator Machine Room AC	3	EA	\$1,500.00	\$5,000		
	3795 Packaged Heat Transfer Module	1	EA	\$5,000.00	\$5,000		
V	H149/H26 3796 Unit & Cabinet Heaters	120	EA	\$1,500.00	\$180,000		
V	149 3797 Air Curtains	12	EA	\$2,500.00	\$30,000		
	3798 Condensate Pumps [Allow for 12]	12	EA	\$1,500.00	\$18,000		
S	H33 Add 3 KW Duct Mounted Humidifier in Duct Serving Data Cen	1	EA	\$5,000.00	5,000		
	3799						
	3800 Plumbing System (Drawing P00.02)						
	3801 Domestic Water Coolers	47	EA	\$750.00	\$35,000		
	3802 Domestic Booster Duplex Pump #1 & #2	4	EA	\$3,500.00	\$14,000		
	3803 Domestic Hot Water Circulator Pump #1 thru #6	6	HP	\$1,500.00	\$9,000		
	3804 Sewage Ejector Duplex Pump #1 thru #7	14	EA	\$2,500.00	\$35,000		
	3805 Gas-Fired Hot Water Heater #1 thru #6	6	EA	\$1,500.00	\$9,000		
	3806 Electric Hot Water Heater #1 thru #2	2	EA	\$2,500.00	\$5,000		
	3807 Elevator Pit Sump Pumps	7	EA	\$1,500.00	\$11,000		



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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
3846	X-Rays	20	EA	\$1,500.00	\$30,000		
3847	Magnameters	20	EA	\$1,500.00	\$30,000		
3848							
3849	Terminal Signage [Drawing A14.1.1]	151	EA	\$1,500.00	\$227,000		
3850	Jet Blue Lettering						
3851	Ventless Dryers	2	EA	\$2,500.00	\$5,000		
3852							
3853	<b>Subtotal: Equipment Connections</b>					\$2,438,000	
3854							
3855	<b>Telecommunications</b>						
3856	Telecommunication Backbone						
3857	SW Manhole to MCR						
3858	(4) 4" Conduits (Underslab)					with Sitework	
3859	SEManhole to MCR						
3860	(4) 4" Conduits (Underslab)					with Sitework	
3861	Rm 1-10M09 (MCR/TR2)						
3862	MCR to TR4 (Rm 3-12J11)						
3863	(2) 4" Conduits	112	LF	\$78.35	\$9,000		
3864	18" Cable Tray	620	LF	\$80.00	\$50,000		
3865	MCR to TR9 (Rm 3-8K23)						
3866	(2) 4" Conduits	112	LF	\$78.35	\$9,000		
3867	18" Cable Tray	330	LF	\$80.00	\$26,000		
3868	MCR to TR3 (Rm 1-8M17)						
3869	18" Cable Tray	410	LF	\$80.00	\$33,000		
3870	12" Cable Tray	100	LF	\$65.00	\$7,000		
3871	MCR to TR1 (Rm 3-10I21)						
3872	(2) 4" Conduits	112	LF	\$78.35	\$9,000		
3873	18" Cable Tray	130	LF	\$80.00	\$10,000		
3874	MCR to TR5 (Rm 1-6R25)						
3875	(4) 4" Conduits	720	LF	\$78.35	\$56,000		
3876	TR5 to TR6 (Rm 1-6R25)						
3877	(4) 4" Conduits	800	LF	\$78.35	\$63,000		
3878	TR6 to TR7 (Rm 3-3G16)						
3879	(2) 4" Conduits	292	LF	\$78.35	\$23,000		
3880	18" Cable Tray	146	LF	\$80.00	\$12,000		
3881	TR7 to TR8 (Rm 1-1H10)						
3882	(2) 4" Conduits	200	LF	\$78.35	\$16,000		
3883	(2) 4" Conduits	220	LF	\$78.35	\$17,000		
3884	(2) 4" Conduits	108	LF	\$78.35	\$8,000		
3885	18" Cable Tray	210	LF	\$80.00	\$17,000		
3886							
3887	Telecommunication Cabling						
3888	East Incoming Service (Copper)					By vendor	
3889	West Incoming Service (Copper)					By vendor	

JetBlue Terminal 5  
 JFK Airport New York, New York  
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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	3890 East Incoming Service (Fiber)						By vendor
	3891 West Incoming Service (Fiber)						By vendor
V	IT166 Substitute 12pr MM ILO 18pr MM	(1)	LS	\$125,000.00	(125,000)		
V	IT167 Substitute cat 5e ILO Cat6	(1)	LS	\$410,000.00	(410,000)		
	3892						
	3893 Main Communications Room (Rm1-10M09)						
	3894 800 Pair Building Entrance Protector						By vendor
	3895 #3 Cat 3 Cross-Connect Cable from Vendor to 100 Block	50	EA	\$18.00	\$1,000		
	3896 #4 Copper from 110 Block to Fiber LAN Equip	50	EA	\$18.00	\$1,000		
	3897 #5 Cat 3 Cable from 110 Block to 110 Block	50	LF	\$2.00	\$100		
	3898 Cat 3 Terminations, Label & Test	75	EA	\$156.70	\$12,000		
	3899 #6 (25) 4-pair Cat 5e Cables from 110 Block to CU Patch	25	LF	\$2.00	\$100		
	3900 Cat 6 Terminations, Label & Test	75	EA	\$156.70	\$12,000		
	3901 #7 Cat 3 Cable ((1) 100 pair Backbone) from 110 Block t	186	LF	\$156.70	\$29,000		
	3902 Cat 3 Terminations, Label & Test	1,600	EA	\$156.70	\$251,000		
	3903 110 Block	2	EA	\$185.00	\$400		
	3904 Copper Patch Panel	2	EA	\$1,000.00	\$2,000		
	3905 LAN Equipment	1	EA	\$4,000.00	\$4,000		
	3906 #11 Cat -6 Cable from CU Patch Panel to LAN Equip	50	LF	\$156.70	\$8,000		
	3907 #12 (18) 2-strand Multimode Hybrid Fiber Cable from LAN	50	LF	\$156.70	\$8,000		
	3908 FO Terminations, Label & Test	27	EA	\$156.70	\$4,000		
	3909 #13 (18) 2-strand Single-Mode Hybrid Fiber Cable from L	50	LF	\$156.70	\$8,000		
	3910 FO Terminations, Label & Test	27	EA	\$156.70	\$4,000		
	3911 #14 (18) 2-strand Multimode Hybrid Fiber Cable from LAN	50	LF	\$156.70	\$8,000		
	3912 FO Terminations, Label & Test	27	EA	\$156.70	\$4,000		
	3913 #15 (18) 2-strand Single-Mode Hybrid Fiber Cable from L	50	LF	\$156.70	\$8,000		
	3914 FO Terminations, Label & Test	27	EA	\$156.70	\$4,000		
	3915 #16 (18) 2-strand Multimode Hybrid Fiber Cable from LAN	50	LF	\$156.70	\$8,000		
	3916 FO Terminations, Label & Test	27	EA	\$156.70	\$4,000		
	3917 #17 (18) 2-strand Single-Mode Hybrid Fiber Cable from L	50	LF	\$156.70	\$8,000		
	3918 FO Terminations, Label & Test	27	EA	\$156.70	\$4,000		
	3919 #18 (1) 4-pair Cat 6 Cable from FO Patch Panel to Outlet	50	LF	\$1.50	\$100		
	3920 #19 (1) 36/36 Strand MM & SMFiber Optic Cables betwee	50	LF	\$1.50	\$100		
	3921 Fiber Optic Patch Panel (144 port)	3	EA	\$3,000.00	\$9,000		
	3922						
	3923 Telecommunication Rooms						
	3924 #8 (25) 4-pair Cat 5e Cables	25	LF	\$2.00	\$100		
	3925 Cat 6 Terminations, Label & Test	75	EA	\$156.70	\$12,000		
	3926 #22 (18) 2-strand Multimode Hybrid Fiber Cable from LAN	50	LF	\$156.70	\$8,000		
	3927 FO Terminations, Label & Test	1,600	EA	\$156.70	\$251,000		
	3928 #23 (18) 2-strand Single-Mode Hybrid Fiber Cable from L	50	LF	\$156.70	\$8,000		
	3929 FO Terminations, Label & Test	1,600	EA	\$156.70	\$251,000		
	3930 #26 Cat -6 Cable from LAN Equip to CU Patch Panel	54	LF	\$2.00	\$100		
	3931 #24 (18) 2-strand Multimode Hybrid Fiber Cable from LAN	50	LF	\$156.70	\$8,000		

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
3932	FO Terminations, Label & Test	1,600	EA	\$156.70	\$251,000		
3933	#25 (18) 2-strand Single-Mode Hybrid Fiber Cable from L/	50	LF	\$156.70	\$8,000		
3934	Factory Terminated					By Vendor	
3935	#27 (1) 4-pair Cat 6 Cable from CU Patch Panel to Outlets						
3936	#28 (1) 2-strand Multimode Fiber from FO Patch Panel to Outlets		LF	\$2.00	\$0		
3937	#29 (1) 2-strand Single mode Fiber from FO Patch Panel to Outlets		LF	\$2.00	\$0		
3938	#20 (1) 2-strand Multimode Fiber from FO Patch Panel to Outlets		LF	\$2.00	\$0		
3939	#21 (1) 2-strand Single mode Fiber from FO Patch Panel to Outlets		LF	\$2.00	\$0		
3940	110 Block	1	EA	\$185.00	\$0		
3941	Fiber Optic Patch Panel (144 port)	2	EA	\$3,000.00	\$6,000		
3942	Copper Patch Panel	1	EA	\$1,000.00	\$1,000		
3943	LAN Equipment	8	EA	\$4,000.00	\$32,000		
3944	Horizontal Management (1 per Patch Panel)	24	EA	\$90.00	\$2,000		
3945	Patch Cords	24	EA	\$35.00	\$1,000		
3946							
3947	Telecommunication Room Layouts						
3948	Rm 1-10M09 (MCR/TR2)						
3949	SCS Cabinets (32"x32"x84")	4	ALLOW	\$3,550.00	\$14,000		
3950	Security Cabinets (32"x32"x84")	3	ALLOW	\$3,550.00	\$11,000		
3951	Network Cabinets (40"x32"x84")	3	ALLOW	\$3,550.00	\$11,000		
3952	IT Cabinets (40"x32"x84")	7	ALLOW	\$3,550.00	\$25,000		
3953	PA Cabinets (40"x32"x84")	3	ALLOW	\$3,550.00	\$11,000		
3954	BMS Cabinets (40"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
3955	Reserved Cabinets (32"x32"x84")					By Vendor	
3956	Waterfalls	21	ALLOW	\$60.00	\$1,000		
3957	18" Cable Tray	195	LF	\$80.00	\$16,000		
3958	90 Deg. Elbows	4	EA	\$150.00	\$1,000		
3959	Tees	12	EA	\$12.00	\$100		
3960	4" Sleeves	11	EA	\$150.00	\$2,000		
3961	Power strip (2 per Cabinet)	42	EA	\$350.00	\$15,000		
3962	Fixed Shelf (3 per Cabinet)	63	EA	\$125.00	\$8,000		
3963	TR4 (Rm 3-12J11)						
3964	SCS Cabinets (32"x32"x84")	2	ALLOW	\$3,550.00	\$7,000		
3965	Security Cabinets (32"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
3966	Network Cabinets (40"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
3967	Spare Cabinets (40"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
3968	Waterfalls	5	ALLOW	\$60.00	\$300		
3969	12" Cable Tray	90	LF	\$65.00	\$6,000		
3970	90 Deg. Elbows					Included	
3971	Tees					Included	
3972	Power strip (2 per Cabinet)	10	EA	\$350.00	\$4,000		
3973	Fixed Shelf (3 per Cabinet)	15	EA	\$125.00	\$2,000		
3974	TR9 (Rm 3-8K23)						
3975	SCS Cabinets (32"x32"x84")	2	ALLOW	\$3,550.00	\$7,000		

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
3976 Security Cabinets (32"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
3977 Network Cabinets (40"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
3978 Spare Cabinets (40"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
3979 Waterfalls	5	ALLOW	\$60.00	\$300		
3980 12" Cable Tray	80	LF	\$54.00	\$4,000		
3981 90 Deg. Elbows					Included	
3982 Tees					Included	
3983 4" Sleeves	8	EA	\$150.00	\$1,000		
3984 Power strip (2 per Cabinet)	10	EA	\$350.00	\$4,000		
3985 Fixed Shelf (3 per Cabinet)	15	EA	\$125.00	\$2,000		
3986 TR3 (Rm 1-8M17)						
3987 SCS Cabinets (32"x32"x84")	2	ALLOW	\$3,550.00	\$7,000		
3988 Security Cabinets (32"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
3989 Network Cabinets (40"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
3990 Spare Cabinets (40"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
3991 Waterfalls	5	ALLOW	\$60.00	\$300		
3992 12" Cable Tray	100	LF	\$65.00	\$7,000		
3993 90 Deg. Elbows					Included	
3994 Tees					Included	
3995 4" Sleeves	12	EA	\$150.00	\$2,000		
3996 Power strip (2 per Cabinet)	10	EA	\$350.00	\$4,000		
3997 Fixed Shelf (3 per Cabinet)	15	EA	\$125.00	\$2,000		
3998 TR1 (Rm 3-10I21)						
3999 SCS Cabinets (32"x32"x84")	2	ALLOW	\$3,550.00	\$7,000		
4000 Security Cabinets (32"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
4001 Network Cabinets (40"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
4002 Spare Cabinets (40"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
4003 Waterfalls	5	ALLOW	\$60.00	\$300		
4004 12" Cable Tray	80	LF	\$65.00	\$5,000		
4005 90 Deg. Elbows					Included	
4006 Tees					Included	
4007 Power strip (2 per Cabinet)	10	EA	\$350.00	\$4,000		
4008 Fixed Shelf (3 per Cabinet)	15	EA	\$125.00	\$2,000		
4009 TR5 (Rm 1-6R25)						
4010 SCS Cabinets (32"x32"x84")	2	ALLOW	\$3,550.00	\$7,000		
4011 Security Cabinets (32"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
4012 Network Cabinets (40"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
4013 Spare Cabinets (40"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
4014 Waterfalls	5	ALLOW	\$60.00	\$300		
4015 12" Cable Tray	130	LF	\$65.00	\$8,000		
4016 90 Deg. Elbows					Included	
4017 Tees					Included	
4018 Power strip (2 per Cabinet)	10	EA	\$350.00	\$4,000		
4019 Fixed Shelf (3 per Cabinet)	15	EA	\$125.00	\$2,000		

**Turner** ≡ Aviation

JetBlue Terminal 5  
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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
4020	TR6 (Rm 1-6R25)						
4021	SCS Cabinets (32"x32"x84")	2	ALLOW	\$3,550.00	\$7,000		
4022	Security Cabinets (32"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
4023	Network Cabinets (40"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
4024	Spare Cabinets (40"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
4025	Waterfalls	5	ALLOW	\$60.00	\$300		
4026	12" Cable Tray	100	LF	\$65.00	\$7,000		
4027	90 Deg. Elbows				Included		
4028	Tees				Included		
4029	4" Sleeves	5	EA	\$150.00	\$1,000		
4030	Power strip (2 per Cabinet)	10	EA	\$350.00	\$4,000		
4031	Fixed Shelf (3 per Cabinet)	15	EA	\$125.00	\$2,000		
4032	TR7 (Rm 3-3G16)						
4033	SCS Cabinets (32"x32"x84")	2	ALLOW	\$3,550.00	\$7,000		
4034	Security Cabinets (32"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
4035	Network Cabinets (40"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
4036	Spare Cabinets (40"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
4037	Waterfalls	5	ALLOW	\$60.00	\$300		
4038	12" Cable Tray	60	LF	\$65.00	\$4,000		
4039	90 Deg. Elbows				Included		
4040	Tees				Included		
4041	4" Sleeves	5	EA	\$150.00	\$1,000		
4042	Power strip (2 per Cabinet)	10	EA	\$350.00	\$4,000		
4043	Fixed Shelf (3 per Cabinet)	15	EA	\$125.00	\$2,000		
4044	TR8 (Rm 1-1H10)						
4045	SCS Cabinets (32"x32"x84")	2	ALLOW	\$3,550.00	\$7,000		
4046	Security Cabinets (32"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
4047	Network Cabinets (40"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
4048	Spare Cabinets (40"x32"x84")	1	ALLOW	\$3,550.00	\$4,000		
4049	Waterfalls	5	ALLOW	\$60.00	\$300		
4050	4" Sleeves	6	EA	\$150.00	\$1,000		
4051	12" Cable Tray	100	LF	\$65.00	\$7,000		
4052	90 Deg. Elbows				Included		
4053	Tees				Included		
4054	Power strip (2 per Cabinet)	10	EA	\$350.00	\$4,000		
4055	Fixed Shelf (3 per Cabinet)	15	EA	\$125.00	\$2,000		
4056							
4057	Outlets (Zones 1-16)						
4058	TR-1						
4059	Phone	62	EA	\$400.00	\$25,000		
4060	Default Data	133	EA	\$400.00	\$53,000		
4061	Public Phone	21	EA	\$400.00	\$8,000		
V IT159 4062	Access Point				Not Included		
4063	Passenger Processing	26	EA	\$400.00	\$10,000		

JetBlue Terminal 5  
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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
4064	Kiosk	18	EA	\$400.00	\$7,000		
4065	CCTV	31	EA	\$400.00	\$12,000		
4066	ACAMS	47	EA	\$400.00	\$19,000		
4067	Intercom	23	EA	\$400.00	\$9,000		
4068	BIDS	4	EA	\$400.00	\$2,000		
4069	RIDS	0	EA	\$400.00	\$0		
4070	GIDS	0	EA	\$400.00	\$0		
4071	FIDS	2	EA	\$400.00	\$1,000		
4072	ATM	4	EA	\$400.00	\$2,000		
4073	TV/CATV	0	EA	\$400.00	\$0		
4074	Terminations	371	EA	\$400.00	\$148,000		
S IT64 4075	Patch Cords (1 per Outlet)					w/ Owner	
4076	MCR/TR-2						
4077	Phone	10	EA	\$400.00	\$4,000		
4078	Default Data	45	EA	\$400.00	\$18,000		
4079	Public Phone	22	EA	\$400.00	\$9,000		
V IT159 4082	Access Point					Not Included	
4081	Passenger Processing	0	EA	\$400.00	\$0		
4082	Kiosk	0	EA	\$400.00	\$0		
4083	CCTV	4	EA	\$400.00	\$2,000		
4084	ACAMS	5	EA	\$400.00	\$2,000		
4085	Intercom	2	EA	\$400.00	\$1,000		
4086	BIDS	8	EA	\$400.00	\$3,000		
4087	RIDS	0	EA	\$400.00	\$0		
4088	GIDS	0	EA	\$400.00	\$0		
4089	FIDS	11	EA	\$400.00	\$4,000		
4090	ATM	4	EA	\$400.00	\$2,000		
4091	TV/CATV	0	EA	\$400.00	\$0		
4092	Terminations	111	EA	\$400.00	\$44,000		
S IT64 4093	Patch Cords (1 per Outlet)					w/ Owner	
4094	TR-3						
4095	Phone	35	EA	\$400.00	\$14,000		
4096	Default Data	270	EA	\$400.00	\$108,000		
4097	Public Phone	0	EA	\$400.00	\$0		
V IT159 4098	Access Point					Not Included	
4099	Passenger Processing	0	EA	\$400.00	\$0		
4100	Kiosk	0	EA	\$400.00	\$0		
4101	CCTV	3	EA	\$400.00	\$1,000		
4102	ACAMS	16	EA	\$400.00	\$6,000		
4103	Intercom	6	EA	\$400.00	\$2,000		
4104	BIDS	6	EA	\$400.00	\$2,000		
4105	RIDS	0	EA	\$400.00	\$0		
4106	GIDS	0	EA	\$400.00	\$0		
4107	FIDS	0	EA	\$400.00	\$0		

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	4108 ATM	2	EA	\$400.00	\$1,000		
	4109 TV/CATV	0	EA	\$400.00	\$0		
S	IT64 4110 Terminations	338	EA	\$400.00	\$135,000		
	4111 Patch Cords (1 per Outlet)				w/ Owner		
	TR-4 4112						
	4113 Phone	44	EA	\$400.00	\$18,000		
	4114 Default Data	152	EA	\$400.00	\$61,000		
V	IT159 4115 Public Phone	12	EA	\$400.00	\$5,000		
	4116 Access Point				Not Included		
	4117 Passenger Processing	0	EA	\$400.00	\$0		
	4118 Kiosk	0	EA	\$400.00	\$0		
	4119 CCTV	29	EA	\$400.00	\$12,000		
	4120 ACAMS	28	EA	\$400.00	\$11,000		
	4121 Intercom	15	EA	\$400.00	\$6,000		
	4122 BIDS	0	EA	\$400.00	\$0		
	4123 RIDS	0	EA	\$400.00	\$0		
	4124 GIDS	0	EA	\$400.00	\$0		
	4125 FIDS	6	EA	\$400.00	\$2,000		
	4126 ATM	0	EA	\$400.00	\$0		
	4127 TV/CATV	0	EA	\$400.00	\$0		
S	IT64 4128 Terminations	286	EA	\$400.00	\$114,000		
	4129 Patch Cords (1 per Outlet)				w/ Owner		
	TR-5 4130						
	4131 Phone	54	EA	\$400.00	\$22,000		
	4132 Default Data	169	EA	\$400.00	\$68,000		
V	IT159 4133 Public Phone	14	EA	\$400.00	\$6,000		
	4134 Access Point				Not Included		
	4135 Passenger Processing	0	EA	\$400.00	\$0		
	4136 Kiosk	0	EA	\$400.00	\$0		
	4137 CCTV	16	EA	\$400.00	\$6,000		
	4138 ACAMS	18	EA	\$400.00	\$7,000		
	4139 Intercom	10	EA	\$400.00	\$4,000		
	4140 BIDS	0	EA	\$400.00	\$0		
	4141 RIDS	0	EA	\$400.00	\$0		
	4142 GIDS	0	EA	\$400.00	\$0		
	4143 FIDS	0	EA	\$400.00	\$0		
	4144 ATM	6	EA	\$400.00	\$2,000		
	4145 TV/CATV	0	EA	\$400.00	\$0		
S	IT64 4146 Terminations	287	EA	\$400.00	\$115,000		
	4147 Patch Cords (1 per Outlet)				w/ Owner		
	TR-6 4148						
	4149 Phone	19	EA	\$400.00	\$8,000		
	4150 Default Data	51	EA	\$400.00	\$20,000		
	4151 Public Phone	10	EA	\$400.00	\$4,000		

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
V	IT159	4152				Not Included	
		4153					
		4154					
		4155					
		4156					
		4157					
		4158					
		4159					
		4160					
		4161					
		4162					
		4163					
		4164					
S	IT64	4165					
		4166					
		4167					
		4168					
		4169					
V	IT159	4170					
		4171					
		4172					
		4173					
		4174					
		4175					
		4176					
		4177					
		4178					
		4179					
		4180					
		4181					
		4182					
S	IT64	4183					
		4184					
		4185					
		4186					
		4187					
V	IT159	4188					
		4189					
		4190					
		4191					
		4192					
		4193					
		4194					
		4195					

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	4196 GIDS	0	EA	\$400.00	\$0		
	4197 FIDS	5	EA	\$400.00	\$2,000		
	4198 ATM	1	EA	\$400.00	\$400		
	4199 TV/CATV	0	EA	\$400.00	\$0		
	4200 Terminations	183	EA	\$400.00	\$73,000		
S	IT64 4201 Patch Cords (1 per Outlet)					w/ Owner	
	4202 TR-9						
	4203 Phone	38	EA	\$400.00	\$15,000		
	4204 Default Data	76	EA	\$400.00	\$30,000		
V	IT159 4205 Public Phone	26	EA	\$400.00	\$10,000		
	4206 Access Point					Not Included	
	4207 Passenger Processing	34	EA	\$400.00	\$14,000		
	4208 Kiosk	18	EA	\$400.00	\$7,000		
	4209 CCTV	17	EA	\$400.00	\$7,000		
	4210 ACAMS	24	EA	\$400.00	\$10,000		
	4211 Intercom	12	EA	\$400.00	\$5,000		
	4212 BIDS	0	EA	\$400.00	\$0		
	4213 RIDS	0	EA	\$400.00	\$0		
	4214 GIDS	0	EA	\$400.00	\$0		
	4215 FIDS	10	EA	\$400.00	\$4,000		
	4216 ATM	2	EA	\$400.00	\$1,000		
	4217 TV/CATV	0	EA	\$400.00	\$0		
S	IT64 4218 Terminations	257	EA	\$400.00	\$103,000		
	4219 Patch Cords (1 per Outlet)					w/ Owner	
	4220						
	4221 Miscellaneous						
	4222 IT Pullboxes (Dwg E07.04 - 07.10)	1	ALLOW	\$20,000.00	\$20,000		
	4223 Additional Hardware (Missing Scope)	1	ALLOW	\$100,000.00	\$100,000		
	4224 Label, Terminate, Testing & Commissioning	1	LS	\$100,000.00	\$100,000		
	4225 Horizontal Cabling					Included	
	4226 Firestopping	1	LS	\$22,500.00	\$23,000		
	4227 Frame Openings					With Drywall	
	4228 3/4" Plywood					With Drywall	
	4229 A/V System					Not Included	
	4230 Cable TV					Not Included	
	4231 Wireless Infrastructure					Not Included	
	4232 Grounding & Bonding Diagram					with Grounding	
	4233 Telecommunication Backbone						
	4234 SW Manhole to MCR						
	4235 (4) 4" Conduits (Underslab)					with Sitework	
	4236 SEManhole to MCR						
	4237 (4) 4" Conduits (Underslab)					with Sitework	
	4238						
	4239						

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	4240 Subtotal: Telecommunications					\$3,357,700	
V	A87 4241						
	4242 Fire Alarm System	617,937	SF	\$4.75	\$2,935,000		
	4243 Fire Alarm Fused Cut Out				with Service & Power Distribution		
	4244 Feeders to Fused Cut Out				with Service & Power Distribution		
	4245 FACP with Interface Panel to Port Authority (including Modem/Dialer)	1	EA		Included		
	4246 Fan Control Box	1	EA		Included		
	4247 Purge Control Panel	1	EA		Included		
	4248 Interface Panel				Included		
	4249 FAAP	1	EA		Included		
	4250 DGP with LCD	9	EA		Included		
	4251 Fan Shut Down Relays	10	EA		Included		
	4252 Manual Fire Alarm Stations	89	EA		Included		
	4253 Horns				Not Shown		
	4254 Multi-tone Horn	2	EA		Included		
	4255 Strobes	149	EA		Included		
	4256 Horn/Strobes	353	EA		Included		
	4257 Heat Detectors	16	EA		Included		
	4258 Smoke Detectors	262	EA		Included		
	4259 Smoke/Heat Detectors				Not Shown		
	4260 Combo Magnetic Door Holder/Smoke Detector				Not Shown		
	4261 Duct Smoke Detectors [Allowance - Not Shown]	125	EA		\$0		
	4262 Elevator Recall Smoke Detectors	9	EA		Included		
	4263 Door Release	10	EA		Included		
	4264 Water Flows Switch	29	EA		Included		
	4265 Tamper Switches	29	EA		Included		
	4266 Monitoring Modules	18	EA		Included		
	4267 Addressable Monitoring/Control Modules	18	EA		Included		
	4268 J-Boxes	41	EA		Included		
	4269 Conduit - EMT	56,600	LF		Included		
	4270 Data Cabling	58,650	LF		Included		
	4271 Programming & Commissioning				Included		
	4272 Warranty for (1) year				Included		
	4273 Training (8 hours)				Included		
	4274 Connections to Satellite Fuel Farm				Not Included		
	4275 Baggage Handling System Requirements (Spec Section 14520-p.214)				with Baggage Handling System		
	4276 Offsite Tie-ins for Central Supervisory Fire Alarm Board						
	4277 Centrex Pairs				with Verizon		
	4278 UDAC Panel				Not Included		
	4279 Terminations				Not Included		
	4280						
	4281						
	4282 Subtotal: Fire Alarm System					\$2,935,000	
	4283						

**Turner** ≡ Aviation

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
<b>4284 Security System</b>						
4285 Card Access	1	ALLOW	\$1,000,000.00	\$1,000,000		
4286 Card Reader				Included		
4287 Card Reader with Pinpad				Included		
4288 Elevator Card Readers with Keypad (FBO)				Included		
4289 Magnetic Contact				Included		
4290 Request to Exit				Included		
4291 Audio/Visual				Included		
4292 Motion Detector Request to Exit				Included		
4293 Remote Door Release				Included		
4294 Intercom Door Station				Included		
4295 Intercom Master Station				Included		
4296 Panic Button				Included		
4297 Lock Power Supply				Included		
4298 Glass Break Detector				Included		
4299 Alarm Monitoring Panel	5	EA		Included		
4300 Access Control Panel	1	EA		Included		
4301 Backboxes						
4302						
4303 CCTV						
4304 Fixed CCTV (ceiling or wall mounted)	47	EA	\$1,000.00	\$47,000		
4305 Fixed CCTV (pole mounted)	20	EA	\$1,000.00	\$20,000		
4306 Fixed CCTV (Elevator)	7	EA	\$1,000.00	\$7,000		
4307 PTZ CCTV	7	EA	\$1,500.00	\$11,000		
4308 Camera Power Supply	20	EA	\$750.00	\$15,000		
4309 Digital Video Recorder (16 Input)	9	EA	\$25,000.00	\$225,000		
4310 CCTV Monitor	1	EA	\$2,000.00	\$2,000		
4311 CCTV Camera Keyboard Controller	1	EA	\$20,000.00	\$20,000		
4312 Power Video Data Integrator (16 port)	9	EA	\$25,000.00	\$225,000		
4313 Conduit & Wire	31,200	LF	\$4.00	\$125,000		
4314						
4315 Central Command Workstations [Z03.02]						
4316 Workstations						
4317 Corporate Security ACAM Workstation (Rm 1-12M07)	1	EA	\$50,000.00	\$50,000		
4318 Security Command Center ACAM Workstation (Rm 1-8I20)	1	EA	\$50,000.00	\$50,000		
4319 ID Control Processing Workstation (Rm 1-13C08)	1	EA	\$50,000.00	\$50,000		
4320 Corporate Security Video Management Workstation (Rm 1-12M07)	1	EA	\$50,000.00	\$50,000		
4321 Security Command Center Video Management Workstation (Rm 1-8I20)	1	EA	\$50,000.00	\$50,000		
4322 Ramp Control Room Video Management Workstation (Rm 5-8T15)	1	EA	\$50,000.00	\$50,000		
4323 Servers						
4324 Digital Video Management Server	1	EA	\$35,000.00	\$35,000		
4325 Access Control Alarm Monitoring Server	1	EA	\$35,000.00	\$35,000		
4326 PANYNJ/JetBlue Cardholder Database Server	1	EA	\$35,000.00	\$35,000		
4327 Miscellaneous						

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
4328	Software and Programming	1	LS	\$100,000.00	\$100,000		
4329	Engineering	1	LS	\$100,000.00	\$100,000		
4330	Training	1	LS	\$25,000.00	\$25,000		
4331	Baggage Handling Roll-up Doors	14	EA	\$2,500.00	\$35,000		
4332	TSA Areas, as shown on Security Floor Plan Drawings					Not Included	
4333	Baggage Handling Zones (as identified on Z Dwgs)					with TSA	
4334	JetBlue/Security VLAN					with TSA	
4335	Hand Baggage X-ray Screening					with TSA	
4336	Magnetometer					with TSA	
4337	Maintenance for One Year					Included	
4338	Maintenance for Three Year or Five Year Options					Not Included	
4339							
4340	UPS System - 80kVA, 3P, Static, Reverse Transfer (Spec Section 16264)	1	ALLOW	\$400,000.00	\$400,000		
4341	Output Isolation Transformer					Included	
4342	Static Transfer Switch					Included	
4343	Battery Power Pack					Included	
4344	Monitoring & Control					Included	
4345	Ethernet Network Management Capabilities					Included	
4346	Training					Included	
4347	Factory Testing					Included	
4348	3 Year Special Warranty					Included	
4349	Service Personal (Spec 16264 - p.23)					Not Included	
4350	Maintenance Contract (Spec 16264 - p.24)					Not Included	
4351							
4352	<b>Subtotal: Security System</b>						\$2,762,000
4353							
4354	<b>Information Systems</b>						
S IT62 4355	FIDS/BIDS/GIDS/RIDS Allowance	620,977	SF	\$8.75	\$5,434,000		
4356	Infrastructure					Included w/ Telcomm	
S IT61 4357	Allowance for 130 GIDS (5 per Gate)	1	LS	\$300,000.00	\$300,000		
4358	Public Address System: Spec Section 16770 (IED System)						
4359	PABX Interface	1	ALLOW	\$10,000.00	\$10,000		
4360	FIDS Interface	1	ALLOW	\$10,000.00	\$10,000		
4361	Fire Alarm System Interface	1	ALLOW	\$10,000.00	\$10,000		
4362	Visual Paging Interface	1	ALLOW	\$10,000.00	\$10,000		
4363	<b>Main Communications Room</b>						
4364	PA Head End Server, CPU, Harddrive	1	LS	\$25,000.00	\$25,000		
4365	Courtesy Announcement System	1	LS	\$25,000.00	\$25,000		
4366	Digital Record Playback System	1	LS	\$25,000.00	\$25,000		
4367	Ambient Noise Analysis System	1	LS	\$25,000.00	\$25,000		
4368	Amplifiers (200 W)	35	EA	\$1,998.00	\$70,000		
4369	<b>Devices</b>						
4370	Type A: 4" Ceiling Mounted, Atlas FAP42T	470	EA	\$150.00	\$71,000		
4371	Type B: 8" Ceiling Mounted, Atlas FAP82T	260	EA	\$150.00	\$39,000		

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Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
4372	Type C: Short Column Wall Mounted, Penton MCS80T	95	EA	\$150.00	\$14,000		
4373	Type D: Wall Mounted, Duran Intellivox 2b	8	EA	\$150.00	\$1,000		
4374	Type E: Wall Mounted, Duran Intellivox 6c	4	EA	\$150.00	\$1,000		
4375	Type F: Wall Mounted Horn, Atlas AP-20	180	EA	\$150.00	\$27,000		
4376	Desk Mounted Microphone	12	EA	\$100.00	\$1,000		
4377	Wall Mounted Microphone	27	EA	\$100.00	\$3,000		
4378	Ceiling Mounted Ambient Noise Sensing Microphone	34	EA	\$100.00	\$3,000		
4379	Conduit & Wire (12 AWG Homeruns to Telcomm Closet)	54,500	LF	\$10.00	\$545,000		
4380	Sleeves & Link Seal	1	LS	\$5,000.00	\$5,000		
4381	Supports	1	LS	\$5,000.00	\$5,000		
4382							
4384	<b>Subtotal: Information Systems</b>					\$6,659,000	
4385							
4386	<b>Grounding System</b>						
4387	Service: North						
4388	HV Ground Bar (Wall-mounted)	1	EA	\$2,500.00	\$3,000		
4389	Exothermic to Building Structural Steel Column	1	EA	\$1,500.00	\$2,000		
4390	Grounding Ring Connection	1	EA	\$1,500.00	\$2,000		
4391	Cold Water Pipe	1	EA	\$1,500.00	\$2,000		
4392	Feeder to Collector Bus Room	75	LF	\$60.00	\$5,000		
4393	Feeder to Emergency Generator Room	75	LF	\$60.00	\$5,000		
4394	Collector Bus Ground Bar (Wall-mounted)	1	EA	\$2,500.00	\$3,000		
4395	Exothermic to Building Structural Steel Column	1	EA	\$1,500.00	\$2,000		
4396	Grounding Ring Connection	1	EA	\$1,500.00	\$2,000		
4397	Feeder to Collector Bus Room	75	LF	\$60.00	\$5,000		
4398	LV Ground Bar (Wall-mounted)	3	EA	\$2,500.00	\$8,000		
4399	Feeder to Equipment Ground Bus	75	LF	\$60.00	\$5,000		
4400	Equipment Ground Bus	1	EA	\$1,500.00	\$2,000		
4401	Exothermic to Building Structural Steel Column	1	EA	\$1,500.00	\$2,000		
4402	Grounding Ring Connection	1	EA	\$1,500.00	\$2,000		
4403	Feeder to Outdoor Generator	100	LF	\$60.00	\$6,000		
4404	Service: East						
4405	HV Ground Bar (Wall-mounted)	1	EA	\$2,500.00	\$3,000		
4406	Exothermic to Building Structural Steel Column	1	EA	\$1,500.00	\$2,000		
4407	Grounding Ring Connection	1	EA	\$1,500.00	\$2,000		
4408	Cold Water Pipe	1	EA	\$1,500.00	\$2,000		
4409	Feeder to Collector Bus Room	75	LF	\$60.00	\$5,000		
4410	Feeder to Emergency Generator Room	75	LF	\$60.00	\$5,000		
4411	Collector Bus Ground Bar (Wall-mounted)	1	EA	\$2,500.00	\$3,000		
4412	Exothermic to Building Structural Steel Column	1	EA	\$1,500.00	\$2,000		
4413	Grounding Ring Connection	1	EA	\$1,500.00	\$2,000		
4414	Feeder to Collector Bus Room	75	LF	\$60.00	\$5,000		
4415	LV Ground Bar (Wall-mounted)	3	EA	\$2,500.00	\$8,000		
4416	Feeder to Equipment Ground Bus	75	LF	\$60.00	\$5,000		

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
4417	Equipment Ground Bus	1	EA	\$1,500.00	\$2,000		
4418	Exothermic to Building Structural Steel Column	1	EA	\$1,500.00	\$2,000		
4419	Grounding Ring Connection	1	EA	\$1,500.00	\$2,000		
4420	Feeder to Outdoor Generator	100	LF	\$60.00	\$6,000		
4421	Service: South						
4422	HV Ground Bar (Wall-mounted)	1	EA	\$2,500.00	\$3,000		
4423	Exothermic to Building Structural Steel Column	1	EA	\$1,500.00	\$2,000		
4424	Grounding Ring Connection	1	EA	\$1,500.00	\$2,000		
4425	Cold Water Pipe	1	EA	\$1,500.00	\$2,000		
4426	Feeder to Collector Bus Room	75	LF	\$60.00	\$5,000		
4427	Feeder to Emergency Generator Room	75	LF	\$60.00	\$5,000		
4428	Collector Bus Ground Bar (Wall-mounted)	1	EA	\$2,500.00	\$3,000		
4429	Exothermic to Building Structural Steel Column	1	EA	\$1,500.00	\$2,000		
4430	Grounding Ring Connection	1	EA	\$1,500.00	\$2,000		
4431	Feeder to Collector Bus Room	75	LF	\$60.00	\$5,000		
4432	LV Ground Bar (Wall-mounted)	3	EA	\$2,500.00	\$8,000		
4433	Feeder to Equipment Ground Bus	75	LF	\$60.00	\$5,000		
4434	Equipment Ground Bus	1	EA	\$1,500.00	\$2,000		
4435	Exothermic to Building Structural Steel Column	1	EA	\$1,500.00	\$2,000		
4436	Grounding Ring Connection	1	EA	\$1,500.00	\$2,000		
4437	Feeder to Outdoor Generator	100	LF	\$60.00	\$6,000		
4438	Emergency Switchgear	1	EA	\$2,500.00	\$3,000		
4439	Exothermic to Building Structural Steel Column	1	LS	\$1,500.00	\$2,000		
4440	Grounding Ring Connection	1	LS	\$1,500.00	\$2,000		
4441	Outdoor Generator Ground Bar (Wall-mounted)	1	EA	\$2,500.00	\$3,000		
4442	Equipment Ground Bus	1	LS	\$1,500.00	\$2,000		
4443	Grounding at Foundation Columns (2" PVC)	400	LF	\$2.00	\$1,000		
4444	Building Grounding Ring (Elec Power Floor Plans)	4,696	LF	\$50.00	\$235,000		
4445	Ground Test Well-3/4" Copper, 10' Deep (Every 500' around Ground I	9	EA	\$1,500.00	\$14,000		
4446	Ground Connection to Equipment Ground Busbar (Elec Power Floor F	1	EA	\$1,500.00	\$2,000		
4447	Telecommunications Grounding (Dwg. T01.04)	1	LS	\$75,000.00	\$75,000		
4448							
4449	<b>Subtotal: Grounding Systems</b>					\$507,000	
4450							
4451	<b>Lightning Protection System</b>						
V E161 4452	Lightening Arrestors						
V E161 4453	Flashing (Dwg E08.02-Detail #6)						
V E161 4454	Inspections & Certifications (LPI System, UL Master Label & LPI Forms)						
V E161 4455	Add Lightning Protection System - ESE System	1	LS	\$200,000.00	\$200,000		
V E161 4456	Copper Conductor	2,200	LF				
V E161 4457	Ionizing Preventor	6	EA				
V E161 4458	Aluminum Mast (20' w/base)	6	EA				
V E161 4459	Corrosion Resist Bonding Plate	14	EA				
V E161 4460	Copper Parallel Clamp	32	EA				

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
V	E161 4461 Copper Fastener	200	EA		Included		
V	E161 4462 Copperweld Ground Rod	36	EA		Included		
V	E161 4463 Ground Rod Connection	36	EA		Included		
V	E161 4464 Bonding Conductor Connection to Building Steel	66	EA	\$1,200.00	\$79,000		
V	E161 4465 Lightning Protection Down Cables	76	EA	\$1,200.00	\$91,000		
V	E161 4466 1" PVC Conduit with Stub-outs to Lower Roof	380	LF	\$8.00	\$3,000		
V	E161 4467 1" PVC Conduit with Stub-outs to Concrete Slab	15,580	LF	\$8.00	\$125,000		
V	E161 4468 Thru-wall Connector (Including Sleeves & Seals)	76	EA	\$20.00	\$2,000		
V	E161 4469 JB's	9	EA	\$150.00	\$1,000		
V	E161 4470 Lightning Arrestors				with Service & Power Distribution		
V	E161 4471 Flashing (Dwg E08.02-Detail #6)				with Roofing		
V	E161 4472 Guarantee (\$10 million insurance coverage)				Included		
V	E161 4473						
V	E161 4474						
V	E161 4475						
V	E161 4476						
V	E161 4477						
V	E161 4478						
V	E161 4479						
V	E161 4480 Subtotal: Lightning Protection Systems					501,000	
	4481						
	4482 Temporary Power & Light						
	4483 Temp Power & Light	620,977	GSF	\$2.00	\$1,242,000		
	4484 Power Consumption	36 MONTHS		\$45,653.00	\$1,644,000		
	4485						
	4486 Subtotal: Temporary Power & Light					\$2,886,000	
	4487						
V	E189 4488 Power Monitoring System						
V	E189 4489 Powering Monitoring & Control				Not Included		
V	E189 4490 Ethernet Gates				Not Included		
V	E189 4491 Feeder Meters				Not Included		
V	E189 4492 Generator Contacts				Not Included		
V	E189 4493 ATS Contacts				Not Included		
V	E189 4494 UPS Contacts				Not Included		
V	E189 4495 Fire Pump Contacts				Not Included		
V	E189 4496 Network Transformer Contacts				Not Included		
V	E189 4497 Network Protector Contacts				Not Included		
V	E189 4498 Microprocessor Monitoring Unit				Not Included		
V	E189 4499 Mod Bus				Not Included		
V	E189 4500 Conduit & Wiring (3#18 - 3/4"C)				Not Included		
V	E189 4501 Two Year Warranty				Not Included		
V	E189 4502 10% Spare Parts (Spec 16215 p. 4)				Not Included		
V	E189 4503 Extra Materials (Spec 16215 p.5)				Not Included		
V	E189 4504 Software & Programming				Not Included		

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
V	E189 4505				Testing & Inspection		Not Included
V	E189 4506				Training - Including 1 yr On-site Assistance & 2 yr Telephone Support		Not Included
V	E189 4507				Interface to BMS		with Building Management System
V	E189 4508						
V	E189 4509				<b>Subtotal: Power Monitoring System</b>		\$0
	4510						
	4511				<b>Retail Power Submetering System</b>		
	4512				Head End System		
	4513				BMS Interface		with Building Management System
	4514				Retail 480/208 Volt Submetering Stations		
	4515				Current Transformers		Included
	4516				Conduit & Wiring		Included
	4517						
	4518				<b>Subtotal: Retail Power Submetering System</b>		\$200,000
	4519						
	4520				<b>Miscellaneous</b>		
	4521				Seismic Requirements (Spec 16072)		
	4522				Factory Testing		
	4523				Core Drilling		
	4524				Testing & Commissioning Systems		
	4525				Heat Tracing (Installation of)		
S	E52				Add Heat Tracing at Gutter [599 LF @ 8W/LF]		
	4526				Fire Stopping		
	4527				Filing & Inspections		
	4528				Shop Drawings & Submittals		
	4529				Engineering/Coordination		
	4530				Electrical Identification per PA Requirements		
	4531				Short Circuit Coordination Study		
	4532				Expansion Joint Requirement [E00.02 Note #14]		
	4533				Spare Parts		Included with Above Respective Systems
	4534				Cleaning		Included with Above Respective Systems
	4535				Sleeves for Electrical Install		Included with Above Respective Systems
	4536				Clock System		Not Included
	4537				Miscellaneous Symbols Dwg.E00.02		Not Shown
	4538				Asbestos Abatement		Not Included
	4539				Excavation & Backfill		Not Included
	4540				Rigging/Hoisting		Included with Equipment
	4541				Relocations & Demoliton		Not Included
	4542				Maintenance		Not Included
	4543						
	4544				<b>Subtotal: Miscellaneous</b>		\$1,508,000
	4545						
	4546				<b>ELECTRICAL</b>		\$48,954,000

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
4547						
4548						
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4551						
4552						
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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
4590	Roof						
4591	<b>Subtotal: Abatement</b>					\$3,000,000	
4592							
4593	<b>Demolition</b>	1	LS	\$3,000,000.00	\$3,000,000		
4594	<b>Flight Wing 1</b>						
4595	<b>Electric</b>						
4596	Fire Alarm disconnect and verifications						
4597	Retain the service of Building fire Alarm for permanent disconnect of the system						
4598	Verification of power feed cable routes						
4599	Disconnect electric equipment and fixtures						
4600	Heat tracing						
4601	Remove lamps store them and return them to the facility engineer.						
4602	Remove light fixture ballasts stored in 55 Galloon steel drums						
4603	Full time electrician for the duration of demo						
4604	<b>Plumbing</b>						
4605	Disconnect domestic water service						
4606	Disconnect fire protection service						
4607	<b>Flight Wing 1 Basement</b>						
4608	Demo non-structural elements						
4609	Provide temporary light						
4610	Disposal of demolished material						
4611	<b>Flight Wing 1 Apron and upper level, and Tunnel</b>						
4612	Remove structural and non-structural elements except for Apron slab						
4613	Disposal of demolished material						
4614	Remove transformers						
4615	<b>CMU Work</b>						
4616	Provide temporary infill wall						
4617	<b>Carpentry</b>						
4618	Provide temporary enclosures at Apron level slab opening						
4619	Provide temporary wall enclosures						
4620	<b>Plastering/Painting and Patching</b>						
4621	Paint all temporary enclosures						
4622	Paint and patch at T5 cut off						
4623							
4624	<b>Flight Wing 2</b>						
4625							
4626	<b>Electric</b>						
4627	Fire Alarm disconnect and verifications						
4628	Retain the service of Building fire Alarm for permanent disconnect of the system						
4629	Verification of power feed cable routes						
4630	Disconnect electric equipment and fixtures						
4631	Remove lamps store them and return them to the facility engineer.						

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
4632	Remove light fixture ballasts stored in 55 Galloon steel drums						
4633	Full time electrician for the duration of demo						
4634							
4635	<b>Plumbing</b>						
4636	Disconnect domestic water service						
4637	Disconnect fire protection service						
4638	<b>Demolition Flight Wing 2</b>						
4639	Remove structural and non-structural elements except for Apron slab						
4640	Disposal of demolished material						
4641	Remove transformers						
4642							
4643	<b>Baggage Handling Building</b>						
4644	<b>Electric</b>						
4645	Fire Alarm disconnect and verifications						
4646	Retain the service of Building fire Alarm for permanent disconnect of the system						
4647	Verification of power feed cable routes						
4648	Disconnect electric equipment and fixtures						
4649	Heat tracing						
4650	Remove lamps store them and return them to the facility engineer.						
4651	Remove light fixture ballasts stored in 55 Galloon steel drums						
4652	Full time electrician for the duration of demo						
4653	<b>Plumbing</b>						
4654	Disconnect domestic water service						
4655	Disconnect fire protection service						
4656	<b>Demolition</b>						
4657	Remove structural and non-structural elements except for Apron slab						
4658	Disposal of demolished material						
4659	Remove transformers						
4660	<b>Building 296 (All Levels)</b>						
4661	<b>Electric</b>						
4662	Fire Alarm disconnect and verifications						
4663	Retain the service of Building fire Alarm for permanent disconnect of the system						
4664	Verification of power feed cable routes						
4665	Disconnect electric equipment and fixtures						
4666	Remove lamps store them and return them to the facility engineer.						
4667	Remove light fixture ballasts stored in 55 Galloon steel drums						
4668	Full time electrician for the duration of demo						
4669	<b>Plumbing</b>						
4670	Disconnect domestic water service						
4671	Disconnect fire protection service						
4672	<b>Demolition</b>						
4673	Remove structural and non-structural elements except for Apron slab						

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
4674	Disposal of demolished material						
4675	Demolish all light towers including the footings						
4676	Demolish blast fence						
4677	Remove transformers						
4678	<b>Building 1164 and CMU building</b>						
4679	<b>Electric</b>						
4680	Fire Alarm disconnect and verifications						
4681	Retain the service of Building fire Alarm for permanent disconnect of the system						
4682	Verification of power feed cable routes						
4683	Disconnect electric equipment and fixtures						
4684	Remove lamps store them and return them to the facility engineer.						
4685	Remove light fixture ballasts stored in 55 Galloon steel drums						
4686	Full time electrician for the duration of demo						
4687	<b>Plumbing</b>						
4688	Disconnect domestic water service						
4689	Disconnect fire protection service						
4690	<b>Demolition</b>						
4691	Remove structural and non-structural elements except for Apron slab						
4692	Disposal of demolished material						
4693	Remove transformers						
4694							
4695	<b>Fuel Hydrant System</b>						
4696							
4697	Drain and Flush the system						
4698	Cat and cap including excavation and backfill						
4699	Remove and salvage equipment						
4700	Slurry fill the hydrant fuel piping						
4701	Electric power and control disconnect						
4702							
4703	<b>Subtotal: Demolition</b>					3,000,000.00	
4704							
4705							
4706	<b>DEMOLITION &amp; ABATEMENT</b>						\$6,000,000
4707							
4708	<b>SITE WORK</b>						
4709							
	<b>Building Sitework</b>						
S	S3						
S	S3						
S	S3	Departures Sidewalk 6"	475	CY	600.00	\$285,000	
S	S3	Concrete curb 6"	870	LF	25.00	\$21,800	
S	S3	Arrivals Sidewalk 6"	488	CY	600.00	\$292,800	
S	S3	Concrete curb 6"	740	LF	25.00	\$18,500	
V	EF179	Asphalt Island	46,770	SF	4.00	\$187,100	

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Terminal/Concourse Building

Building Area: 639,470 GSF

Rank Building System		Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
V	EF179						
S	S3						
	Asphalt Curb	5,325	LF	20.00	\$106,500		
	<b>Subtotal: Building Sitework</b>					\$911,700	
	4710 See "Airside" and "Landside"						
	4711						
	4712 <b>SITE WORK</b>						\$911,700
	4713						
	4714 <b>SITE UTILITIES</b>						
	4715						
	4716 See "Airside" and "Landside"						
	4717						
	4718 <b>SITE UTILITIES</b>						\$0
	4719						
	4720 <b>FUELING SYSTEMS</b>						
	4721						
	4722 See "Airside" and "Landside"						
	4723						
	4724 <b>FUELING SYSTEMS</b>						\$0
	4725						
	4726 <b>TOTAL DIRECT COST</b>				\$201,955,160	\$201,955,160	\$201,955,160

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Fixed Bridges / Links

Building Area: 18,635 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
<b>1 EXCAVATIONS AND FOUNDATIONS</b>							
<b>2</b>							
<b>3 Earthwork</b>							
4	Mobilize	1	LS	25,000.00	\$25,000		
5	Excavation						
6	Pile cap excavation	3,912	CY	40.00	\$156,000		
7	Grade beam excavation	1,661	CY	40.00	\$66,000		
8	Carting				INCLUDED		
9	Underslab utilities	24	CY	40.00	\$1,000		
10	General backfill	3,436	CY	20.00	\$69,000		
11	Dewatering	1	LS	25,000.00	\$25,000		
12	Grading	19,500	SF	0.75	\$15,000		
13	Line & grade surveys	1	LS	30,000.00	\$30,000		
S EF1 14	Contaminated Soil Disposal Premiums	2,771	Tons	26.50	\$73,000		
15							
16	<b>Subtotal: Earthwork</b>					460,000	
17							
<b>18 Piles</b>							
19	Production Monotube piles - 8"x14"	9,200	LF	44.00	\$405,000		
20	Concrete for piles	275	CY	400.00	\$110,000		
21	Reinforcing steel for piles	12	TON	3,000.00	\$36,000		
22	Removal of underground obstructions				INCLUDED		
23	Rem				NOT INCLUDED		
24	Fusion bonded epoxy coating, upper 15'-0"				INCLUDED		
25	Load Test				INCLUDED W/TERMINAL		
26	Pile Dynamic Analysis				INCLUDED W/TERMINAL		
27							
28	<b>Subtotal: Piles</b>					551,000	
29							
<b>30 Foundations</b>							
31	Concrete for pile caps	1,551	CY	400.00	\$620,000		
32	Reinforcing steel for pile caps	54	TON	3,000.00	\$162,000		
33	Concrete of pedestal	110	CY	600.00	\$66,000		
34	Reinforcing steel for pedestal	8	TON	3,000.00	\$24,000		
35	Concrete slab & walls for sump pits				NOT REQUIRED		
36	Concrete slab & walls for elevator/escalator pits				NOT REQUIRED		
37	Reinforcing steel for pits				NOT REQUIRED		
38	Concrete for grade beams	400	CY	550.00	\$220,000		
39	Reinforcing steel for grade beams	40	TON	3,000.00	\$120,000		
40	Concrete utility encasement	8	CY	600.00	\$5,000		

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Fixed Bridges / Links

Building Area: 18,635 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	41 Crane pad				NOT INCLUDED		
	42 Winter concreting				NOT INCLUDED		
	43 Foundation drainage system				NOT INCLUDED		
	44						
	<b>45 Subtotal: Foundations</b>					1,217,000	
	46						
	<b>47 Slab-on-grade</b>						
	48 Concrete for 10" S.O.G.	630	CY	600.00	\$378,000		
	49 Reinforcing steel for 10" S.O.G.	61	TON	3,000.00	\$183,000		
	50 Concrete for 12" S.O.G.				NOT REQUIRED		
	51 Reinforcing steel for 12" S.O.G.				NOT REQUIRED		
	52 Moisture barrier	19,500	SF	1.75	\$34,000		
S	EF2						
	Concrete curb and island	317	CY	600.00	\$190,000		
S	EF2						
	Reinforcing steel for curb and island	21	TON	3,000.00	\$63,000		
	53						
	<b>54 Subtotal: Slab-on-grade</b>					848,000	
	55						
	<b>56 EXCAVATIONS AND FOUNDATIONS</b>						\$3,076,000
	57						
	<b>58 STRUCTURAL FRAME</b>						
	59						
	<b>78 Concrete Fill on Deck</b>						
	79						
	80 Concrete fill on metal deck - Assume 5 1/2"	154	CY	450.00	\$69,000		
	81 Steel Reinforcemnet				Not Included		
	82						
	<b>83 Subtotal: Concrete Fill on Deck</b>					\$69,000	
	84						
	<b>78 Metal Deck &amp; Studs</b>						
	79						
	66 Metal floor deck - fixed boarding bridges	9,100	SF	3.50	\$32,000		
	67 Metal roof deck - fixed boarding bridges	11,160	SF	3.50	\$39,000		
	82						
	<b>83 Subtotal: Metal Deck &amp; Studs</b>					\$71,000	
	84						
	<b>60 Steel Superstructure</b>						
	61						
	62 Arrivals, Boarding & Roof Levels						
V	A87						
	63 Structural steel framing - girders, beams and columns	253	TNS	4,000.00	\$1,012,000		
V	A87						
	64 Structural steel framing connections	25	TNS	4,000.00	\$100,000		

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Building Area: 18,635 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
65	Galvanized Steel	22	TNS	1,200.00	\$26,000		
68							
69	<b>Subtotal: Steel Superstructure</b>					\$1,138,000	
70							
71	<b>Spray On Fireproofing</b>						
72							
73	Spray Fireproofing on structural steel	21,684	SF	2.40	\$52,000		
74	Spray Fireproofing on metal roof deck				Not required		
75							
76	<b>Subtotal: Spray On Fireproofing</b>					\$52,000	
77							
85	<b>STRUCTURAL FRAME</b>						\$1,330,000
86							
87	<b>ROOFING AND WATERPROOFING</b>						
88							
89	<b>Rough Carpentry</b>						
90							
91	Allowance for rough carpentry	26,110	SF	1.50	\$39,000		
92							
93	<b>Subtotal: Rough Carpentry</b>					\$39,000	
94							
95	<b>Roof</b>						
96							
V A87	97 EPDM roofing and insulation - fixed boarding bridges	26,614	SF	13.00	\$346,000		
	98 Scuppers	27	EA	300.00	\$8,000		
	99 <b>Subtotal: Roof</b>					\$354,000	
	100						
	101 <b>ROOFING AND WATERPROOFING</b>						\$393,000
	102						
	103 <b>EXTERIOR WALL</b>						
	104						
	105 <b>Walls</b>						
	106						
	107 <i>Boarding level - fixed bridges</i>						
S/V 13/A101/A	108 M-2 Zinc Interlocking Flat Panels	25,719	SF	50.00	\$1,286,000		
	109 Exterior metal pan soffit with 1/2" metal furring	11,160	SF	24.00	\$268,000		
S A13	110 Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice/water shield				Included		
	111 Rigid insulation board; 2" thick				Included		
	112 Metal stud framing	17,146	SF	8.00	\$137,000		
	113 Polystyrene soffit insulation	11,160	SF	4.00	\$45,000		
	114						

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**Fixed Bridges / Links**

Building Area: 18,635 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
115	<b>Subtotal: Walls</b>					\$1,736,000	
116							
117	<b>Windows</b>						
118							
119	<i>Boarding level - fixed bridges</i>						
120							
121	<b>Subtotal: Windows</b>					\$0	
122							
123	<b>Exterior Doors and Vestibules</b>						
124							
125	Pair, hollow metal doors, fixed bridges & stairs	20	EA	3,200.00	\$64,000		
126	Single oversize hollow metal doors, PLB	13	EA	1,500.00	\$20,000		
127							
128	<b>Subtotal: Exterior Doors and Vestibules</b>					\$84,000	
129							
130	<b>Exterior Stairs</b>						
131							
132	Structural Steel Framing	134	TNS	4,000.00	\$536,000		
133	Structural Steel Connections (10%)	13	TNS	4,000.00	\$52,000		
134	Galvanized Steel	147	TNS	1,200.00	\$176,000		
135	3/16" Galv. Diamond Plate Stairs w/ structural supports	1,100	LFR	460.00	\$506,000		
136	3/16" Galv. Diamond Plate Landings w/ L2x2x1/4 supports	4,000	SF	55.00	\$220,000		
137	Galv. Steel Railing w/ Mesh	4,000	LF	90.00	\$360,000		
138	Metal Roof Deck	14,950	SF	3.50	\$52,000		
139							
140	<b>Subtotal: Exterior Stairs</b>					\$1,902,000	
141							
142	<b>EXTERIOR WALL</b>						\$3,722,000
143							
144	<b>INTERIOR PARTITIONS &amp; FINISHES</b>						
145							
146	<b>Partitions</b>						
147							
148	GWB wall sheeting	18,148	SF	4.00	\$73,000		
149	Final cleaning	11,160	SF	0.50	\$6,000		
150	OSHA protection	11,160	SF	0.50	\$6,000		
151	Protection of finished work	11,160	SF	0.50	\$6,000		
152							
153	<b>Subtotal: Partitions</b>					\$91,000	
154							
155	<b>Doors, Frames &amp; Hardware</b>						

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Fixed Bridges / Links

Building Area: 18,635 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
156							
157	Single HM door and frame	13	EA	1,500.00	\$20,000		
158							
159	<b>Subtotal: Doors, Frames &amp; Hardware</b>					\$20,000	
160							
161	<b>Floor Finishes</b>						
162							
163	Carpet	1,011	SY	35.00	\$35,000		
164	Vinyl base	1,892	LF	1.50	\$3,000		
165							
166	<b>Subtotal: Floor Finishes</b>					\$38,000	
167							
168	<b>Wall Finishes</b>						
169							
170	Paint	18,148	SF	1.20	\$22,000		
171							
172	<b>Subtotal: Wall Finishes</b>					\$22,000	
173							
174	<b>Ceiling Finishes</b>						
175							
V A87 176	GWB suspended ceiling and paint	9,604	SF	10.00	\$96,000		
177							
178	<b>Subtotal: Ceiling Finishes</b>					\$96,000	
179							
180	<b>Miscellaneous Metals</b>						
181							
182	Steel pipe handrail	1,488	LF	100.00	\$149,000		
183							
184	<b>Subtotal: Miscellaneous Metals</b>					\$149,000	
185							
186	<b>INTERIOR PARTITIONS &amp; FINISHES</b>						\$416,000
187							
188	<b>VERTICAL TRANSPORTATION</b>						
189							
190	<b>Elevators</b>						
191							
192	N/A						
193							
194	<b>Subtotal: Elevators</b>					\$0	
195							
196	<b>VERTICAL TRANSPORTATION</b>						\$0

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Fixed Bridges / Links

Building Area: 18,635 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
197							
198	<b>SPECIAL EQUIPMENT</b>						
199							
200	<b>Specialities</b>						
201							
202	Signage - static	26	EA	250.00	\$7,000		
203							
204	<b>Subtotal: Specialities</b>					\$7,000	
205							
206							
207	<b>SPECIALITIES</b>						\$7,000
208							
209	<b>EQUIPMENT &amp; FURNISHINGS</b>						
210							
211	<b>Furnishings</b>						
212							
213	Excluded						
214							
215	<b>Subtotal: Furnishings</b>					\$0	
216							
217	<b>Artwork</b>						
218							
219	Excluded						
220							
221	<b>Subtotal: Artwork</b>					\$0	
222							
223	<b>EQUIPMENT &amp; FURNISHINGS</b>						\$0
224							
225	<b>BAGGAGE HANDLING SYSTEM</b>						
226							
227	<b>BHS</b>						
228							
229	N/A						
230							
231	<b>Subtotal: BHS</b>					\$0	
232							
233	<b>BAGGAGE HANDLING SYSTEM</b>						\$0
234							
235	<b>SPECIAL CONSTRUCTION</b>						
236							

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Fixed Bridges / Links

Building Area: 18,635 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
237	Passenger Boarding bridges						
238	N/A						
239							
240	Subtotal: Passenger boarding bridges					\$0	
241							
242	<b>SPECIAL CONSTRUCTION</b>						\$0
243							
244	<b>PLUMBING</b>						
245							
246	Fixtures and Specialties (Based on Plumbing Dwgs)				Not Included		
247							
248							
249	Subtotal: Fixtures & Specialties					\$0	
250							
251	<b>Domestic Water Distribution</b>						
252	Domestic Water System Equipment				Not Included		
253	Domestic Cold Water System				Not Included		
254	Domestic Hot Water System				Not Included		
255	Domestic Water Piping (Hot & Cold)				Not Included		
256							
257							
258	Subtotal: Domestic Water Distribution					\$0	
259							
260	<b>Sanitary Drainage</b>						
261	Sanitary Drainage Equipment				Not Included		
262	Sanitary Vent & Drainage Piping				Not Included		
263							
264	Subtotal: Sanitary Drainage					\$0	
265							
266	<b>Storm Drainage</b>						
267	Storm Drainage Equipment						
268	Roof Drains (6" - 8")	35	EA	\$750.00	\$26,000		
269	Area Drains (4")				Not Included		
270	Overflow Drains				Not Included		
271	Syphonic Roof Drain System				Not Included		
272	Storm Drainage Piping						
273	Below ground - 4" - 6"	350	LF	\$60.00	\$21,000		
274	Below ground - 8" - 12"				Not Included		
275	Aboveground - 4"	1,750	LF	\$70.00	\$123,000		
276	Aboveground - 6"				Not Included		

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Fixed Bridges / Links

Building Area: 18,635 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
277	Aboveground - 8"				Not Included		
278	Insulation for Horizontal Piping				Not Included		
279	Expansion Joints				Not Included		
280	Cleanouts	1	LS	\$10,000.00	\$10,000		
281	Overflow Drainage Piping				Not Included		
282	Stainless Steel Piping				Not Included		
283							
284	<b>Subtotal: Storm Drainage</b>					\$180,000	
285							
286	Natural Gas Piping				Not Included		
287							
288	<b>Subtotal: Natural Gas Piping</b>					\$0	
289							
290	Equipment Hook-ups				Not Included		
291							
292	<b>Subtotal: Equipment Hook-ups</b>					\$0	
293							
294	Site Utilities (up to 5' outside of building)						
295	Storm Lines To Building				w/Site Utilities		
296							
297	<b>Subtotal: Site Utilities</b>					\$0	
298							
299	Food Service Fit-Out				Not Included		
300							
301	<b>Subtotal: Food Service Fit-Out</b>					\$0	
302							
303							
304	Miscellaneous				Included w/ Building		
V A87	Fixed Bridges Plumbing	504	GSF	\$5.00	\$3,000		
306							
307	<b>Subtotal: Miscellaneous</b>					\$3,000	
308							
309	<b>PLUMBING</b>						\$183,000
310							
311	<b>FIRE PROTECTION</b>						
312							
313	Equipment & Accessories				Not Included		
314							
315	<b>Subtotal: Equipment &amp; Accessories</b>					\$0	
316							
317	Fire Standpipe System				Not Included		
318							

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Building Area: 18,635 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	319 Subtotal: Fire Standpipe System					\$0	
	320						
	321						
	322 Wet System Sprinkler Piping & Heads						
V	F174	323	Sprinkler Heads	120 EA	\$350.00	\$42,000	
V	F174		Sprinkler Main Piping	1,300 LF	\$50.00	\$65,000	
	324 Subtotal: Wet System Sprinkler Piping & Heads					\$107,000	
	325						
	326 Dry Systems						
	327 <u>Departure Level</u>						
	328 <u>DSP Zone 1 (In SP Zone 7)</u>						
SV	F68/F174	329	Dry Valve Assembly w/ Air Compressor (DVA) (4")			Not Required	
SV	F68/F174	330	Sprinkler Heads (10 per bridge)			Not Required	
SV	F68/F174	331	Sprinkler Main Piping (4")			Not Required	
		332	Drain Piping (2")	100 LF	\$35.00	\$4,000	
		333	Sprinkler Branch Piping			Included	
		334	Galvanized Pipe			Not Included	
V	F174	335	Misc. Valves & Specialties			Not Required	
		336					
		337	<u>DSP Zone 2 (In SP Zone 6)</u>				
SV	F68/F174	338	Dry Valve Assembly w/ Air Compressor (DVA) (4")			Not Required	
SV	F68/F174	339	Sprinkler Heads (10 per bridge)			Not Required	
SV	F68/F174	340	Sprinkler Main Piping (4")			Not Required	
		341	Drain Piping (2")	100 LF	\$35.00	\$4,000	
		342	Sprinkler Branch Piping			Included	
		343	Galvanized Pipe			Not Included	
V	F174	344	Misc. Valves & Specialties			Not Required	
		345					
		346	<u>DSP Zone 3 (In SP Zone 1)</u>				
SV	F68/F174	347	Dry Valve Assembly w/ Air Compressor (DVA) (4")			Not Required	
SV	F68/F174	348	Sprinkler Heads			Not Required	
SV	F68/F174	349	Sprinkler Main Piping (4")			Not Required	
		350	Drain Piping (2")	100 LF	\$35.00	\$4,000	
		351	Sprinkler Branch Piping			Included	
		352	Galvanized Pipe			Not Included	
V	F174	353	Misc. Valves & Specialties			Not Required	
		354					
		355					
		356 Subtotal: Dry Systems				\$12,000	
		357					
		358 PreAction Systems				Not Included	

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Building Area: 18,635 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
359							
360	<b>Subtotal: PreAction Systems</b>					\$0	
361							
362	<b>Deluge Systems</b>				Not Included		
363							
364	<b>Subtotal: Deluge Systems</b>					\$0	
365							
366	<b>Specialty Systems</b>				Not Included		
367							
368	<b>Subtotal: Specialty Systems</b>					\$0	
369							
370	<b>Miscellaneous</b>						
371	Independent (3rd party) Commissioning Agent				By Owner		
372	Work with Owner Furnished Commissioning Agent				Included		
373	Hydraulic Calculations, Layout & Shop Drawings				Included		
374	As-Built Drawings, O&M Manuals & Warranty				Included		
375	System Identification				Included		
376	Controlled Inspections				Included		
377	Controls & Control Wiring				Included		
378	Pressure Testing & Flushing of Piping				Included		
379	Equipment Startup & Testing				Included		
380	Core Drilling				Included		
381	Fire Stopping				Included		
382	Seismic Restraints & Vibration Isolation				Included		
383	Rigging, Hoisting & Aerial Lifts				Included		
384	Scaffolding				Included		
385	Job Trailers (Shanty) - Tool / Equip Storage				Included		
386	Heat Tracing (Furnish) w/Insulation & Aluminum Jacketing				Included		
387	Drip Pans				Included		
388	Attic Stock				Included		
389	Temporary Standpipe system				Use Permanent System		
390	Temporary Fire Protection				Use Permanent System		
391	Standby Labor & Fire Watch				Not Included		
392	Detectors (Heat & Smoke)				w/Electrical		
393	Fire Alarm & Control Wiring				w/Electrical		
394	Trenching/Excavation/Backfill				w/Foundations		
395	Concrete Equipment Pads				w/Concrete		
396	Painting				w/Painting		
397	Roof Work				w/Roofing		
398	Concession Areas Fit-out				Not Included		
399	Overtime				Not Included		
400							

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Fixed Bridges / Links

Building Area: 18,635 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
401	Subtotal: Miscellaneous					\$0	
402							
403	FIRE PROTECTION						\$119,000
404							
405	H.V.A.C.						
406							
407	H.V.A.C.						
408	<u>Heating &amp; Cooling Plant</u>						
409							
410	<u>Heating Plant</u>				Not Included		
411							
412	Subtotal: Heating Plant					\$0	
413							
414							
415	<u>Heating Equipment</u>						
S H67	416 HW Cabinet Unit Heater w/ Integral Controls (Stair Towers)				Deleted		
	417 Finned Tube Radiation w/ Standard Enclosure - Al/Cu (Allow	500	LF	\$100.00	\$50,000		
S H24	418 Thermostatic Radiator Control Valve (1 per 25 LF)				Deleted		
S H24	Add Solenoid Valves Tied into BMS				w/Building		
419							
420	Subtotal: Heating Equipment					\$50,000	
421							
422							
423	<u>Cooling Plant</u>				Not Included		
424							
425	Subtotal: Cooling Plant					\$0	
426							
427							
428	<u>Piping Distribution</u>						
429							
430	<u>Hot Water Piping ( Mains &amp; Risers)</u>				Not Included		
431	<u>Glycol Hot Water Piping ( Mains &amp; Risers)</u>				Not Included		
432	<u>Glycol Hot Water Piping ( Secondary Mains &amp; Branches)</u>				Not Included		
433	1-1/2" - 4"	600	LF	\$75.00	\$45,000		
434	Piping Insulation	600	LF	\$15.00	\$9,000		
435	<u>Chilled Water Piping (Mains &amp; Risers)</u>				Not Included		
436	<u>Chilled Water Piping (Secondary Mains &amp; Branches)</u>				Not Included		
437	<u>Glycol Condenser Water Piping</u>				Not Included		
438	<u>Condensate Drain Line</u>				Not Included		
439							
440	Subtotal: Piping Distribution					\$54,000	

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Fixed Bridges / Links

Building Area: 18,635 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
441							
442							
443	<u>Air Distribution</u>						
444							
445							
446	<u>Fan Coil Units</u>				Not Included		
447							
448	Heating & Ventilating Units						
449							
450	Subtotal: Air Distribution					\$0	
451							
452							
453	Supplemental A/C Systems				Not Included		
454							
455	Subtotal: Supplemental AC Systems					\$0	
456							
457							
458	Ventilation						
459							
460	<u>Aircraft Loading Walkway Fans [ALW 1 thru 24] (1500 cfm e</u>	36,000	CFM	\$1.50	\$54,000		
461	Motor Starters	24	EA	\$750.00	\$18,000		
462	Galvanized Ductwork	7,200	LBS	\$8.50	\$61,000		
463	Acoustic Lining & Thermal Insulation				Not Included		
464	Motorized Dampers				Not Included		
465	Fire Smoke Dampers				Not Included		
466	Back Draft Dampers				Not Included		
467	Fire Dampers				Not Included		
468	Volume Dampers				Not Included		
469	Registers, Grilles & Diffusers	2	EA	\$200.00	\$400		
470	Exhaust Louver				Not Included		
471							
472	Subtotal: Ventilation					\$133,400	
473							
474							
475	Concession Exhaust				Not Included		
476							
477	Subtotal: Concession Exhaust					\$0	
478							
479							
480	Equipment Connections						
481							

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Building Area: 18,635 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	H24	482			Deleted		
		483					
		484			Subtotal: Equipment Connections	\$0	
		485					
		486					
		487			Emergency Generator System		
		488			Not Included		
		489			Subtotal: Emergency Generator System	\$0	
		490					
		491					
		492			Fuel Oil System for Generators		
		493			w/ Electrical		
		494			Subtotal: Fuel Oil System for Generators	\$0	
		495					
		496					
		497			Temporary Heating & Cooling Programs		
		498			w/ General Conditions		
		499			Subtotal: Temporary Heating & Cooling Programs	\$0	
		500					
		501					
		502			Automatic Temperature Controls		
		503			w/ Building		
		504			DDC Temperature Control System		
		505			Subtotal: Automatic Temperature Controls	\$0	
		506					
		507			Testing & Balancing		
		508			w/ Building		
		509			Subtotal: Testing & Balancing	\$0	
		510					
		511			Seismic & Vibration Isolation		
		512			w/ Building		
		513			Subtotal: Seismic & Vibration Isolation	\$0	
		514					
		515			Miscellaneous		
V	A87				w/ Building		
		517	504	GSF	\$30.00	\$15,000	\$15,000
		518			Fixed Bridges HVAC		
		519			Subtotal: Miscellaneous		
		520			H.V.A.C.		\$252,400
		521			ELECTRICAL		
		522					

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Fixed Bridges / Links

Building Area: 18,635 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	523 Service & Power Distribution						
	524					W/ Building	
	525 Subtotal: Service & Power Distribution						\$0
	526						
	527 Lighting						
V	A87 Fixed Bridges Lighting for Extend Fixed Links	504	GSF	\$12.00	\$6,000		
S	E69 Lighting & Branch Wiring						
S	E69 Zone 1						
S	E69 FAF	150	EA	\$304.00	\$46,000		
S	E69						
S	E69 Miscellaneous						
S	E69 Conduit & Wire	2,250	LF	\$7.50	\$17,000		
S	E69 Exit Lights	1	LS	\$2,500.00	\$3,000		
S	E69 Site Lighting					Not Included	
	529						
	530 Subtotal: Lighting						\$72,000
	531						
	532 Lighting Controls						
	533					Not Shown	
	534 Subtotal: Lighting Controls						\$0
	535						
	536 Convenience Power						
V	A87 537 Convenience Power	504	GSF	\$8.00	\$4,000		
	538 Subtotal: Convenience Power						\$4,000
	539						
	540 Equipment Connections						
	541 Equipment connections	18,635	GSF	\$2.25	\$42,000		
	542 Subtotal: Equipment Connections						\$42,000
	543						
	544 Telecommunications						
	545 PA System	18,635	GSF	\$2.25	\$42,000		
	546						
	547 Subtotal: Telecommunications						\$42,000
	548						
	549 Fire Alarm System						
V	A87 550 Fire Alarm System	19,139	GSF	\$4.75	\$91,000		
	551						
	552 Subtotal: Fire Alarm System						\$91,000
	553						
	554 Security System						
	555						

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Fixed Bridges / Links

Building Area: 18,635 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
556	Subtotal: Security System				Not Shown	\$0	
557							
558	Grounding System						
559					Not Shown		
560	Subtotal: Grounding Systems					\$0	
561							
562	Lightening Protection System						
563					Not Shown		
564	Subtotal: Lightening Protection Systems					\$0	
565							
566	Temporary Power & Light						
567					Not Shown		
568	Subtotal: Temporary Power & Light					\$0	
569							
570	Metering System						
571					Not Shown		
572	Subtotal: Metering System					\$0	
573							
574	Miscellaneous						
575					Not Shown		
576	Subtotal: Miscellanous					\$0	
577							
578							
579	ELECTRICAL						\$251,000
580							
581	DEMOLITION						
582							
583	Excluded						
584							
585	DEMOLITION						\$0
586							
587	SITE WORK						
588							
589	See "Airside" and "Landside"						
590							
591	SITE WORK						\$0
592							
593	SITE UTILITIES						
594							
595	See "Airside" and "Landside"						
596							

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Fixed Bridges / Links

Building Area: 18,635 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
597	SITE UTILITIES						\$0
598							
599	FUELING SYSTEMS						
600							
601	See "Airside" and "Landside"						
602							
603	FUELING SYSTEMS						\$0
604							
605							
606	<b>TOTAL DIRECT COST</b>				\$9,749,400	\$9,749,400	\$9,749,400

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Airside Civil

Building Area: N/A GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1	<b>DEMOLITION</b>						
2							
3	<b>Site Preparation</b>						
4							
5	Mob/Set up crushing machine	1	EA	30,000.00	\$30,000		
6	Sawcut apron for demolition	25,000	LF	5.00	\$125,000		
7	Breakup apron pavement 12-14"	630,000	SF	1.25	\$788,000		
8	Breakup Bldg slab/fnd #164,296,FW2	55,000	SF	1.50	\$83,000		
9	Load/Stockpile rubble incl 25%	32,600	CY	15.00	\$489,000		
10	Crush rubble for backfill and restockpile	32,600	CY	15.00	\$489,000		
11	Remove existing asphalt and subbase	15,600	CY	35.00	\$546,000		
12							
13	<b>FW1 DEMO</b>						
14							
15	Break apron slab drop to basement for ramp	20,000	SF	2.00	\$40,000		
16	Install/Activate site dewatering	40	WD	10,000.00	\$400,000		
17	Break slab/caps at bldg perimeter (low headroom 12')	1,000	CY	600.00	\$600,000		
18	Break remaining apron slab drop to basement berm w	40,000	SF	5.00	\$200,000		
19	Remove basement slab/found as rqd for new constr	30,000	SF	3.00	\$90,000		
20	Waterproof areas of slab removal	30,000	SF	5.00	\$150,000		
21	Backfill Flt Wing #1 basement	25,000	CY	15.00	\$375,000		
22	Steel sheeting left in place (wall/footing removals) 10	2,000	SF	50.00	\$100,000		
S	C212						
S	C212						
23	Blast Fence Removal	1,500	LF	100.00	\$150,000		
	Concrete Pads	5,000	SF	25.00	\$125,000		
24	<b>Subtotal: Site Preparation</b>					\$4,780,000	
25							
26	<b>DEMOLITION</b>						\$4,780,000
27							
28	<b>SITE WORK</b>						
29							
30	<b>Pavements</b>						
31							
32	<b>Temporary Pavement</b>						
33	Place temp asphalt at hydrant removals 16/8"	2,600	SF	20.00	\$52,000		
34	Place select fill/temp asphalt	3,200	SF	25.00	\$80,000		
35	<b>Permanent Pavement</b>						
S/V	C180A/C1 80B	966,870	SF	10.00	\$9,669,000		
S/V	C180A/C1 80B	53,262	SF	5.00	\$266,000		
S/V	C180A/C1 80B	64,900	SF	18.75	\$1,217,000		
36	Asphalt Area 5 & 7 - 8"/8"/8"						
37	Asphalt taxiway paving; 2"/6"/6"						
38	Concrete Area 9/10/11/2/3/6 - 17"/4"/6"						

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Airside Civil

Building Area: N/A GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals	
S/V	C180A/C1 80B	PCC - Building Perimeter - 10"/6"						
					Not Included			
S/V	C180A/C1 80B	PCC- Aprons - 15"/4"/6"						
		202,420	SF	15.75	\$3,188,000			
S/V	C180A/C1 80B	Joints						
		1	LS	200,000.00	\$200,000			
S	C180A	Throat						
		27,828	SF	28.75	\$800,000			
S	C180A	Throat Utilities						
		1	LS	200,000.00	\$200,000			
S	EF1	39 Excavate to achieve proposed elevations						
		25,000	CY	20.00	\$500,000			
		Contaminated Soil Disposal Premiums						
		32,063	Tons	26.50	\$850,000			
		40 Paving at Hold positions; incl lighting (max. 20' cable runs to existing source)						
		3	EA	75,000.00	\$225,000			
		41 Apron restoration for utilities						
		5,000	SF	22.00	\$110,000			
		42						
		43 Airside Striping						
		44 Taxilane continuous 4"						
		20,000	LF	5.00	\$100,000			
		45 Centerline Striping						
		2,200	LF	20.00	\$44,000			
		46						
		47 Apron lighting system (bank of floods at each gate fro						
		26	EA	15,000.00	\$390,000			
S	C212	48 Aircraft Gate Configuration						
		27	LOC	3,000.00	\$81,000			
S	C212	49 Jet Bridge Safety Zone						
		27	LOC	1,500.00	\$40,500			
S	C212	Stop Bars						
		25	EA	1,000.00	\$25,000			
S	C212	Deicing Area						
		1	LS	25,000.00	\$25,000			
		50 Subtotal Sitework Pavements					\$18,062,500	
		51						
		52 Site Work						
		53						
		54 Operations security fence						
		55						
		56 Snow Melter Pit						
S	C72	57 Construct housing						
		1	EA	70,000.00	\$70,000			
S	C72	58 Components						
		1	EA	50,000.00	\$50,000			
		59 Temporary roads						
		10,000	SY	4.50	\$45,000			
		60 Dust/FOD control						
		400	WD	2,500.00	\$1,000,000			
		61 Blastfence with foundation						
		440	LF	1,100.00	\$484,000			
S	C212	62 Apron encapsulation fence						
		5,490	LF	75.00	\$412,000			
		63 Temporary SIDA escorts						
		1	LS	10,000.00	\$10,000			
S	C212	64 Guardrail						
		490	LF	35.00	\$17,000			
		65 Subtotal: Site Work					\$2,088,000	
		66						
		67 SITE WORK						\$20,150,500
		68						

JetBlue Terminal 5  
 JFK Airport New York, New York  
 60% CD Estimate  
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Airside Civil

Building Area: N/A GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	<b>69 SITE UTILITIES</b>						
	70						
	<b>71 Utility Corridor</b>						
	72						
	73 Excavate major utility corridor approx 25'w	10,000	CY	50.00	\$500,000		
	74 10" Fire protection line @ concourse	1,600	LF	100.00	\$160,000		
S	C213	75 Pipe Size Increase to 10"	2,100	LF	50.00	\$105,000	
	<b>76 Subtotal Utility Corridor</b>					\$765,000	
	77						
	<b>78 Site Thermal Distribution System (TDS)</b>						
	79						
	80 Fabricate/install/weld/test	1,100	LF	2,700.00	\$2,970,000		
	81 Minor structures	5	EA	30,000.00	\$150,000		
	82 Major vaults (see Landside)						
	83						
	<b>84 Subtotal Thermal Distribution System</b>					\$3,120,000	
	85						
	<b>86 EROSION CONTROL</b>						
	87						
	88 Catchbasin Protection	15	EA	500.00	\$8,000		
	89 F/I silt fence	1,600	LF	7.00	\$11,000		
	90					\$19,000	
	<b>91 Subtotal: EROSION CONTROL</b>						
	92						
	<b>93 Stormwater Drainage</b>						
V	E164	94 Relocate Utilities Due to Added Generators	1	LS	150,000.00	150,000	
	95 Designated Drainage Removals	2,500	LF	100.00	\$250,000		
	96 Structure Removals	15	EA	2,500.00	\$38,000		
	97 F/I aircraft type 2 MH/Castings	39	EA	10,000.00	\$390,000		
	98 F/I 6-8" DIP	950	LF	200.00	\$190,000		
	99 F/I RCP 18-48"	3,350	LF	200.00	\$670,000		
	100 Local sumping	1	LS	50,000.00	\$50,000		
	101 Removal of snow melter pits	5	EA	5,000.00	\$25,000		
	102 F/I 8" temp FP line	850	LF	200.00	\$170,000		
	103 Remove designated water lines	1,200	LF	150.00	\$180,000		
	104 F/I temp HDPE piping	1,325	LF	150.00	\$199,000		
	105 54-42" rcp; incl. excavation and dewatering	1,000	LF	450.00	\$450,000		
	106 36-12" rcp; (within utility corridor excavation)	250	LF	450.00	\$113,000		
S	C213	New Structures	10	EA	20,000.00	\$200,000	
S	C213	New Piping	600	LF	150.00	\$90,000	
S	C73	107 Stormceptors (aircraft loading)					
S	C73	STC 16000	1	EA	84,000.00	\$84,000	

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Airside Civil

Building Area: N/A GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	C73	STC 11000	4	EA	51,000.00	\$204,000	
S	C73	STC 7200	2	EA	48,000.00	\$96,000	
S	C73	STC 4800	1	EA	28,000.00	\$28,000	
S	C73	STC 2400	0	EA	18,000.00	\$0	
S	C73	STC 900	3	EA	9,000.00	\$27,000	
S	C73	STC 450i	4	EA	9,000.00	\$36,000	
S	C73	Sheeting	1	LS	350,000	\$350,000	
S	C73	Excavation	1	LS	235,000.00	\$235,000	
S	C73	Sumping	1	LS	170,000.00	\$170,000	
S	C73	Set Structure	1	LS	235,000.00	\$235,000	
S	C73	108 Backfill	1	LS	210,000.00	\$210,000	
		<b>109 Subtotal Stormwater Drainage</b>					\$4,840,000
		110					
		<b>111 Sanitary Drainage</b>					
		112					
V	C211	113 8/10" RCP (within utility corridor excavation)	2,000	LF	125.00	\$250,000	
		114 4' diam manholes; incl. castings	7	EA	10,000.00	\$70,000	
S	C213	115 6" PVC Laterals	1,120	LF	100.00	\$112,000	
V	V183B	Provide Manifold & Larger Manholes for Sanitary Syst	1	LS	100,000.00	\$100,000	
		<b>116 Subtotal Sanitary Drainage</b>					\$532,000
		117					
		<b>118 Electrical/Communications</b>					
		119					
		120 Remove cable (ductbank remains)	9,300	LF	30.00	\$279,000	
		121 Ductbank Removal Complete (assumed)	1,000	LF	100.00	\$100,000	
		122 F/I Encased 5KV	2,680	LF	350.00	\$938,000	
		123 F/I Electrical MH	13	EA	15,000.00	\$195,000	
		124 Communications Ductbanks	1,700	LF	200.00	\$340,000	
		125 F/I Comms MH	5	EA	10,000.00	\$50,000	
		126					
		127 Concrete encased 5kv	3,980	LF	350.00	\$1,393,000	
		128 6' manholes	10	EA	20,000.00	\$200,000	
		129 Elect/comms relocations	8,000	LF	100.00	\$800,000	
		130 New UGE dwg cl-7	2,500	LF	350.00	\$875,000	
		131 New communications dwg cl-8	1,500	LF	300.00	\$450,000	
S	C213	480V System Ductbank (Bldg)	1,660	EA	300.00	\$498,000	
S	C213	Structures Precast	7	EA	25,000.00	\$175,000	
S	C213	Structures CIP	2	EA	35,000.00	\$70,000	
S	C213	480V System Ductbank (Deicing)	890	EA	300.00	\$267,000	
S	C213	Structures Precast	3	EA	25,000.00	\$75,000	
S	C213	Distribution Panel	1	EA	70,000.00	\$70,000	
S	C213	480V System Ductbank (Switchhouse)	410	EA	300.00	\$123,000	

**Turner** ≡ Aviation

JetBlue Terminal 5  
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Airside Civil

Building Area: N/A GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
S	C213	Handholes	9	EA	5,000.00	\$45,000	
S	C213	4 Luminaires /Poles (Highmast 60' - 70')	9	EA	100,000.00	\$900,000	
S	C213	<b>Communications</b>					
S	C213	Communications Ductbank	660	LF	200.00	\$132,000	
S	C213	Structures	2	EA	10,000.00	\$20,000	
	132						
	133	Subtotal Elec/Comms				\$7,995,000	
	134						
	135	<b>SITE UTILITIES</b>					\$17,271,000
	136						
	137	<b>FUELING SYSTEMS</b>					
	138						
	139	<b>Hydrants and Gate Distribution System</b>					
	140						
	141	Excavate/Expose existing piping	6,000	CY	35.00	\$210,000	
	142	Break vault roof,walls and backfill	80	EA	2,500.00	\$200,000	
	143	Abate pipe end for cuts 15' centers	1,200	EA	675.00	\$810,000	
	144	Cold Cut piping	1,200	EA	675.00	\$810,000	
	145	Load/dispose piping regulated waste	18,000	LF	30.00	\$540,000	
	146	Abatement Monitoring	1	LS	150,000.00	\$150,000	
	147	Slurry piping to remain	5,000	LF	40.00	\$200,000	
V	C184	Install/Weld/Test new system	10,600	LF	1,217.00	\$12,900,000	
	149	Localized fuel removal removals as reqd at low point di	1	LS	100,000.00	\$100,000	
	150	Pump controls, emergency shut-off system, cathodic	1	LS	2,000,000.00	\$2,000,000	
	151	Minor structures (fuel pits)	34	EA	incl	\$0	
	152	Valve Vaults	5	EA	100,000.00	\$500,000	
	153						
	154	Subtotal: Hydrants and Gate Distribution System				\$18,420,000	
	155						
	156	<b>FUELING SYSTEMS</b>					\$18,420,000
	157						
	158						
	159	<b>TOTAL DIRECT COST</b>				\$60,621,500	\$60,621,500

JetBlue Terminal 5  
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Building Area: 38,700 GSF

Equipment

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1	<b>BAGGAGE HANDLING SYSTEM</b>						
2							
3	<b>BHS</b>						
4							
5	<i>Inbound baggage system</i>						
6	Belt conveyor; incl. support structure	2,524	LF	1,030.00	\$2,600,000		
7	<u>Premium</u> for metering conveyor	0	EA	2,500.00	\$0		
8	Power turn	25	EA	20,000.00	\$500,000		
9	Pusher	0	EA	15,500.00	\$0		
10	Diverter	0	EA	10,300.00	\$0		
11	Vertical sort/merge	0	EA	45,200.00	\$0		
12	Tip chute	0	EA	1,900.00	\$0		
13	Automatic ticket reader	0	EA	9,700.00	\$0		
14	Manual encode station	0	EA	9,700.00	\$0		
15	Incline device	1,050	LF	5,000.00	\$5,250,000		
16	Flat plate device	0	LF	3,500.00	\$0		
17	Platform/catwalk incl. Supports, steps and rails	8,779	SF	50.00	\$439,000		
18	Engineering and commissioning	1	LS	216,000.00	\$216,000		
19	<i>Outbound baggage system</i>						
20	Belt conveyor; incl. support structure	9,137	LF	1,030.00	\$9,411,000		
21	<u>Premium</u> for metering conveyor	105	EA	2,500.00	\$263,000		
22	Power turn	109	EA	20,000.00	\$2,180,000		
23	Pusher	20	EA	15,500.00	\$310,000		
24	Diverter	18	EA	10,300.00	\$185,000		
25	Vertical sort/merge	4	EA	45,200.00	\$181,000		
26	Tip chute	10	EA	1,900.00	\$19,000		
27	Automatic ticket reader	2	EA	9,700.00	\$19,000		
28	Manual encode station	2	EA	9,700.00	\$19,000		
29	Incline device	0	LF	5,000.00	\$0		
30	Flat plate device	1,765	LF	3,500.00	\$6,178,000		
31	Platform/catwalk incl. Supports, steps and rails	20,846	SF	50.00	\$1,042,000		
32	Engineering and commissioning	1	LS	670,000.00	\$670,000		
33	<i>Miscellaneous</i>						
34	Impact rail and post	869	LF	170.00	\$148,000		
35	Fire/security door, incl. Curtain	43	EA	5,800.00	\$249,000		
V H149	36 Add 2 Draft Curtains per Belt Conveyor	18	EA	\$2,000.00	36,000		
	37 Subtotal: BHS					\$29,915,000	
	38						
	39 <b>BAGGAGE HANDLING SYSTEM</b>						\$29,915,000
	40						
	41 <b>EQUIPMENT &amp; FURNISHINGS</b>						

JetBlue Terminal 5  
 JFK Airport New York, New York  
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Building Area: 38,700 GSF

Equipment

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
42							
43	Security Equipment						
44							
45	Security equipment will be provided and installed by TSA in accordance with current regulations						
46	EDS & ETD Equipment				By TSA		
47	UPS or Em. Power for Screening Equipment				By TSA		
48	Hand baggage X-ray screening				By TSA		
49	Magnetometer				By TSA		
50							
51	Subtotal: Security Equipment					\$0	
52							
53	EQUIPMENT & FURNISHINGS						\$0
54							
55	SPECIAL CONSTRUCTION						
56							
57	Passenger Boarding Bridges						
58							
59	Apron drive boarding bridge; 2 section	13	EA	480,000.00	\$6,240,000		
60	Apron drive boarding bridge; 3 section	13	EA	490,000.00	\$6,370,000		
61	400Hz power converter, 90kVA	26	EA	40,000.00	\$1,040,000		
62	PC air, 30 ton packaged unit	26	EA	60,000.00	\$1,560,000		
63	Potable water service	26	EA	30,000.00	\$780,000		
64							
65	Subtotal: Passenger Boarding bridges					\$15,990,000	
66							
67	SPECIAL CONSTRUCTION						\$15,990,000
68							
69	<b>TOTAL DIRECT COST</b>				\$45,905,000	\$45,905,000	\$45,905,000
70							

JetBlue Terminal 5  
 JFK Airport New York, New York  
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Roadways

Building Area: N/A GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1	DEMOLITION						
2							
3	Site Preparation						
4							
5	Remove existing concrete pavements for new roadways	146,000	SF	10.00	\$1,460,000		
6							
7	Subtotal: Site Preparation					\$1,460,000	
8							
9	DEMOLITION						\$1,460,000
10							
11	SITE WORK						
12							
13	Pavements (at-grade)						
14							
15	Earth cut required for new roadway elevations	4,000	CY	50.00	\$200,000		
S	EF1						
	Contaminated Soil Disposal Premiums	5,130	Tons	26.50	\$136,000		
16	Arrivals level Roadways; 4" with 4" base and 6" subbase; incl. non mountable curb)	117,000	SF	10.00	\$1,170,000		
17	Non-mountable curb	5,200	LF	22.00	\$114,000		
18	Asphalt paver shoulder and safety wall	10,400	SF	10.00	\$104,000		
19	Raised Median with curb	15,000	SF	10.00	\$150,000		
20	CIP concrete retaining wall; 3' - 7'high; incl. spread footing	2,000	LF	350.00	\$700,000		
21	Roadway Lighting (40 poles @ 150' spacing and 2" conduit)	3,000	LF	200.00	\$600,000		
22	Roadway Drainage (approx 34 structures - no pipe sizes given)	2,500	LF	100.00	\$250,000		
23							
24	Loading Dock						
25	Truck Loading Dock	29,000	SF	12.00	\$348,000		
26	Truckbay screenwall	240	LF	1,000.00	\$240,000		
27	OSHA protection	1	LS	100,000.00	100,000		
28	Protection of finished work	1	LS	50,000.00	50,000		
29							
30	Subtotal Pavements At Grade					\$4,162,000	
31							
32	MSE Abutments/Retaining Walls						
33							
34	Steel monotube piles; 180 ton	48	EA	4,200.00	\$202,000		
35	Rebar to piles	48,000	LB	1.50	\$72,000		
36	Pile load tests	1	EA	25,000.00	\$25,000		
37	Excavation/backfill	1,300	CY	100.00	\$130,000		
38	Abutment Concrete	710	CY	600.00	\$426,000		
39	Precast leveling pad	760	SF	100.00	\$76,000		
40	Precast panels	6,400	SF	70.00	\$448,000		

JetBlue Terminal 5  
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**Roadways**

Building Area: N/A GSF

Rank Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
41 Select fill	700	CY	50.00	\$35,000		
42 Mass fill	4,500	CY	25.00	\$113,000		
43 Precast cap	760	LF	100.00	\$76,000		
44						
45 Subtotal MSE Abutments/Retaining Walls					\$1,603,000	
46						
47 Departure Ramps						
48						
49 Steel monotube piles; 180 ton	162	EA	4,200.00	\$680,000		
50 Rebar to piles	162,000	LB	1.50	\$243,000		
51 Pile load tests	1	EA	25,000.00	\$25,000		
52 Excavation/backfill	1,700	CY	100.00	\$170,000		
53 Footing concrete	470	CY	600.00	\$282,000		
54 Stem concrete	270	CY	1,000.00	\$270,000		
55 3'sq steel tube with precast jacket 16'h	8	EA	7,000.00	\$56,000		
56 Multirotational bearings	31	EA	5,000.00	\$155,000		
57 Structural steel framing - plate girders and cap beams	600	TNS	3,000.00	\$1,800,000		
58 Metal deck	27,000	SF	3.50	\$95,000		
59 Shearstuds (not shown)	10,000	EA	5.00	\$50,000		
60 Concrete fill on metal deck; 7"	27,000	SF	12.00	\$324,000		
61 Concrete sidewalk	8,500	SF	10.00	\$85,000		
62 Concrete overlay; 2"	27,000	SF	7.00	\$189,000		
63 Concrete barrier curb	1,420	LF	70.00	\$99,000		
64 Pipe railings	1,420	LF	50.00	\$71,000		
65						
66 Subtotal Departure Ramps					\$4,594,000	
67						
68 Departure Roadways Elevated (Over Building)						
69						
70 Mobilize	1	LS	25,000.00	\$25,000		
71 Excavation						
72 Pile cap excavation	6,404	CY	40.00	\$256,000		
73 Grade beam excavation	1,155	CY	40.00	\$46,000		
74 Carting					INCLUDED	
75 Underslab utilities	756	CY	40.00	\$30,000		
76 General backfill	4,472	CY	20.00	\$89,000		
77 Dewatering	1	LS	50,000.00	\$50,000		
78 Grading	59,714	SF	0.75	\$45,000		
79 Line & grade survey	1	LS	30,000.00	\$30,000		
S EF1 80 Contaminated Soil Disposal Premiums	4,929	Tons	26.50	\$131,000		
81						
82 Production Monotube piles - 8"x14"	28,160	LF	44.00	\$1,239,000		

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Roadways

Building Area: N/A GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	83 Concrete for piles	845	CY	400.00	\$338,000		
	84 Reinforcing steel for piles	37	TON	3,000.00	\$111,000		
	85 Removal of underground obstructions				INCLUDED		
	86 Removal of damaged pile due to obstructions				NOT INCLUDED		
	87 Fusion bonded epoxy coating, upper 15'-0"				INCLUDED		
	88 Load Test				W/TERMINAL ESTIMATE		
	89 Pile Dynamic Analysis				W/TERMINAL ESTIMATE		
	90						
	91 Concrete for pile caps	2,767	CY	400.00	\$1,107,000		
	92 Reinforcing steel for pile caps	102	TON	3,000.00	\$306,000		
	93 Concrete for grade beams	338	CY	550.00	\$186,000		
	94 Reinforcing steel for grade beams	36	TON	3,000.00	\$108,000		
	95 Concrete utility encasement				NOT INCLUDED		
	96 Crane pad				NOT REQUIRED		
	97 Winter concreting				NOT INCLUDED		
	98 Foundation drainage system				NOT INCLUDED		
	99						
	100 Concrete for 12" S.O.G.	2,323	CY	400.00	\$929,000		
	101 Reinforcing steel for 12" S.O.G.	157	TON	3,000.00	\$471,000		
	102 Moisture barrier				NOT INCLUDED		
	103 CIP concrete columns (51) - 4' dia, 15' avg h Sandblast Finish	1,479 9,615	CY SF	1,000.00 2.50	\$1,479,000 \$24,000		
S	S8						
	104 Reinforcing Steel	95	TNS	3,000.00	\$285,000		
	105 Multirotational Polyurethane Disc Bearings @ ea. Column	51	EA	5,000.00	\$255,000		
	106 Precast Prestressed Capbeams - Approx. 90' long	17	PCS	50,000.00	\$850,000		
	107 Precast Prestresses Box Beams	315	PCS	9,000.00	\$2,835,000		
	108 Grout box beams	71,000	SF	2.00	\$142,000		
	109 Membrane waterproofing	71,000	SF	8.00	\$568,000		
S	S6						
	110 CIP concrete structural slab - 4"	875	CY	470.00	\$411,000		
	111 Reinforcing Steel	110	TNS	3,000.00	\$330,000		
S	S6						
	112 CIP concrete overlay - 4"	875	CY	470.00	\$411,000		
	113 Reinforcing Steel	50	TNS	3,000.00	\$150,000		
	114 Concrete sidewalk	25,000	SF	10.00	\$250,000		
	115 Precast Concrete barrier w/ curb - 1 side	800	LF	70.00	\$56,000		
	116 Transverse Expansion Joints (End Spans) - 12" total movement, X-cell	172	LF	1,500.00	\$258,000		
	117 Transverse Expansion Joints (Interior Span)- Elastomeric Seal	86	LF	300.00	\$26,000		
V	C186						
	118 Delete Phase 2 Stub	(11,300)	SF	122.50	(\$1,384,000)		
	119						
	120 Subtotal Departures Roadways					\$12,443,000	
	121						
	122 Overhead Signs/Guardrail						
	123						

JetBlue Terminal 5  
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Roadways

Building Area: N/A GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
124	55' span type	5	EA	150,000.00	\$750,000		
125	65' span type	1	EA	200,000.00	\$200,000		
126	40" span type	1	EA	150,000.00	\$150,000		
127	25" cant	3	EA	75,000.00	\$225,000		
128	Guardrail	2,400	LF	75.00	\$180,000		
129	Concrete foundations	70	CY	550.00	\$39,000		
130							
131	<b>Subtotal OHD signs/guardrail</b>					\$1,544,000	
132							
133	<b>Maintenance &amp; Protection of Traffic (MPT)</b>						
134							
135	Impact attenuators	4	EA	40,000.00	\$160,000		
136	Roadway Striping	25,000	LF	3.00	\$75,000		
137	VMS Structures	16	EA	25,000.00	\$400,000		
138	Sign panels	20,000	SF	20.00	\$400,000		
139	Construction signs	100	EA	500.00	\$50,000		
140	MPT phases	10	WD	5,000.00	\$50,000		
141	Concrete barrier (approx 500lf/3phases)	1,600	LF	10.00	\$16,000		
142	Arrowboards (2ea/3 phases)	2	EA	10,000.00	\$20,000		
143							
144	<b>Subtotal Maintenance &amp; Protection of Traffic</b>					\$1,171,000	
145							
146	<b>SITE WORK</b>						\$25,517,000
147							
148	<b>SITE UTILITIES</b>						
149							
150	<b>Utility Corridor</b>						
151							
152	Excavation for utility corridor approx 25'w	5,000	CY	60.00	300,000		
S EF1 153	Contaminated Soil Disposal Premiums	6,413	Tons	26.50	\$170,000		
154	<b>Subtotal Utility Corridor</b>					\$470,000	
155							
156	<b>Gas</b>						
157							
158	Excavate/Remove existing 12" main	220	LF	150.00	33,000		
159	HPG 12" - reroute	380	LF	150.00	57,000		
160	Connections	3	EA	10,000.00	30,000		
161	Trench excavation - see utility corridor						
162							
163	<b>Subtotal Gas</b>					\$120,000	
164							
165	<b>Water System</b>						

JetBlue Terminal 5  
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Roadways

Building Area: N/A GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
166							
167	Remove existing lines	700	LF	250.00	175,000		
168	LPW 10/16"	580	LF	250.00	145,000		
169	HPW 30"	300	LF	500.00	150,000		
170	Wet taps	5	EA	20,000.00	100,000		
171	Cathodic protection	1	LS	100,000.00	100,000		
172	Trench excavation - see utility corridor						
173							
174	<b>Subtotal Water System</b>					\$670,000	
175							
176	<b>Triturator</b>						
177							
178	Sheeting/excavation for structure	1	EA	200,000.00	200,000		
179	Construct housing approx 25x30	1	EA	400,000.00	400,000		
180	Components	1	EA	400,000.00	400,000		
181							
182	<b>Subtotal Triturator</b>					\$1,000,000	
183							
184	<b>Pump Station</b>						
185							
S EF7	186 Sheeting/Excavation for structure	2	EA	100,000.00	200,000		
S EF7	187 Construct housing approx 20x20	2	EA	125,000.00	250,000		
S EF7	188 Components	2	EA	100,000.00	200,000		
189							
190	<b>Subtotal Pump Station</b>					\$650,000	
191							
192	<b>Electrical/Communications</b>						
193							
S/V 214/C183	194 Concrete encased 5kv	1,990	LF	350.00	696,500		
S/V 214/C183	195 6' dia manholes	10	EA	20,000.00	200,000		
	196 Traffic intersection #42 (5 poles + loop detectors)	1	LS	250,000.00	250,000		
197							
198	<b>Subtotal Electrical/Communications</b>					\$1,146,500	
199							
200	<b>Thermal Distribution System (TDS)</b>						
201							
202	Fab/Inst/Weld/Test System (within utility corridor excavation)	1,100	LF	2,700.00	2,970,000		
203	Minor structures	1	EA	30,000.00	30,000		
204	Major structures	2	EA	100,000.00	200,000		
205							
206	<b>Subtotal TDS</b>					\$3,200,000	
207							

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Roadways

Building Area: N/A GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
	208 Sanitary						
	209						
S	C211	210 8/10" RCP (within utility corridor excavation)	700	LF	125.00	87,500	
		211 4'diam manholes w/castings	5	EA	15,000.00	75,000	
		212 Dewatering approx 20 days	600	LF	300.00	180,000	
S	C21	213 Loading Dock Drainage	1	LS	48,000.00	48,000	
		214 Subtotal Sanitary					\$390,500
	215						
	216 Stormwater Drainage						
	217						
		218 48-30" rcp with excavation/backfilling	1,320	LF	250.00	330,000	
		219 24-18" rcp with excavation/backfilling	480	LF	150.00	72,000	
		220 Manholes w/castings	15	EA	10,000.00	150,000	
		221 Catch basins	2	EA	5,000.00	10,000	
		222 Existing drainage removals	840	LF	50.00	42,000	
	223						
		224 Subtotal Stormwater Drainage					\$604,000
	225						
	226 SITE UTILITIES						\$8,251,000
	227						
	228 FUELING SYSTEMS						
	229						
	230 N/A						
	231						
	232 FUELING SYSTEMS						\$0
	233						
	234						
235	<b>TOTAL DIRECT COST</b>					\$35,228,000	\$35,228,000

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Building Area: 23,225 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
	<b>1 EXCAVATIONS AND FOUNDATIONS</b>						
	2						
	<b>3 Earthwork</b>						
	4 Mobilize	1	LS	25,000.00	\$25,000		
	5 Support of excavation	7,200	CY	40.00	\$288,000		
	6 Excavation for pile caps	1,731	CY	35.00	\$61,000		
	7 General backfill	821	CY	20.00	\$16,000		
S	EF1	8 Contaminated Soil Disposal Premiums	1,167	Tons	26.50	\$31,000	
	9 Dewatering	1	LS	10,000.00	\$10,000		
	10						
	<b>11 Subtotal: Earthwork</b>					\$431,000	
	12						
	<b>Piles</b>						
S	EF78	Production Monotube piles - 8"x14"	5,600	LF	44.00	\$246,000	
S	EF78	Concrete for piles	168	CY	400.00	\$67,000	
S	EF78	Reinforcing steel for piles	8	TON	3,000.00	\$24,000	
S	EF78	Removal of underground obstructions				NOT INCLUDED	
S	EF78	Rei				NOT INCLUDED	
S	EF78	Fusion bonded epoxy coating, upper 15'-0"				INCLUDED	
S	EF78	Load Test				INCLUDED W/TERMINAL	
S	EF78	Pile Dynamic Analysis				INCLUDED W/TERMINAL	
S	EF78						
S	EF78	<b>Subtotal: Piles</b>				337,000	
	13 <b>Foundations</b>						
	14 Concrete for pile caps	910	CY	400.00	\$364,000		
	15 Reinforcing steel for pile caps	43	TON	3,000.00	\$129,000		
	16 Concrete for grade beams	10	CY	550.00	\$6,000		
	17 Reinforcing steel for grade beams	2	TON	3,000.00	\$6,000		
	18 Crane/hoist pads					NOT INCLUDED	
	19 Winter concreting					NOT INCLUDED	
	20 Foundation drainage system					NOT INCLUDED	
	21 Rigid insulation at perimeter					NOT REQUIRED	
	22						
	<b>23 Subtotal: Foundations</b>					\$505,000	
	24						
	<b>25 Slab-On-Grade</b>						
	26 Concrete for S.O.G.	5	CY	400.00	\$2,000		
	27	1	TON	3,000.00	\$3,000		
	28						
	<b>29 Subtotal: Slab-On-Grade</b>					\$5,000	
	30						

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Building Area: 23,225 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
31	Waterproofing						
32	Waterproofing				NOT REQUIRED		
33							
34	Subtotal: Waterproofing					\$0	
35							
36							
37	EXCAVATIONS AND FOUNDATIONS						\$1,278,000
38							
39	STRUCTURAL FRAME						
40							
41	Steel Superstructure						
42							
43	Structural steel framing - girders & truss members	625	TNS	4,000.00	\$2,500,000		
44	Structural steel framing - columns	0	TNS	4,000.00	\$0		
45	Structural steel framing connections	63	TNS	4,000.00	\$252,000		
46	Metal floor deck	8,125	SF	3.50	\$28,000		
47	Metal sub-floor deck	15,300	SF	3.50	\$54,000		
48	Metal roof deck	15,300	SF	3.50	\$54,000		
49							
50	Subtotal: Steel Superstructure					\$2,888,000	
51							
52	Spray On Fireproofing						
53							
54	Spray Fireproofing on structural steel - truss members				Not Required		
55	Intumescent Paint for Truss Steel	85,500	SF	12.00	\$1,026,000		
56	Spray Fireproofing on metal roof deck				not required	Not Required	
57							
58	Subtotal: Spray On Fireproofing					\$1,026,000	
59							
60	Concrete Fill on Deck						
61							
62	CIP Hammer Head Piers, (4) - 8' dia column w/ cap, Assun	1,199	CY	1,200.00	\$1,439,000		
63	Reinforcing Steel	16	TNS	3,000.00	\$48,000		
64	Column form with hammerhead - rental	1	EA	25,000.00	\$25,000		
65	Concrete fill on metal floor deck, 4"	100	CY	450.00	\$45,000		
66	Concrete fill on metal sub-floor deck, 5", Assume 25% of si	59	CY	450.00	\$27,000		
67	Reinforcing Steel - Assume WWF	38,725	SF	0.85	\$33,000		
68	Sandblast Finish	4,187	SF	2.50	\$10,000		
69	Subtotal: Concrete Fill on Deck					\$1,627,000	
70							
	Expansion Joints						

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Building Area: 23,225 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
S 7	Expansion Joints	70	LF	150.00	\$10,500		
	<b>Subtotal: Expansion Joints</b>					\$10,500	
155	<b>71 STRUCTURAL FRAME</b>						\$5,551,500
72	<b>73 ROOFING AND WATERPROOFING</b>						
74	Rough Carpentry						
75							
76	Allowance for rough carpentry	23,225	SF	1.50	\$35,000		
77							
78	<b>Subtotal: Rough Carpentry</b>					\$35,000	
79							
80	<b>Roof</b>						
81							
82	EPDM roofing and insulation	23,225	SF	13.00	\$302,000		
83	Parapet flashing and lining	1,370	LF	40.00	\$55,000		
84							
85	<b>Subtotal: Roof</b>					\$357,000	
86							
87							
88							
89	<b>ROOFING AND WATERPROOFING</b>						\$392,000
90							
91	<b>EXTERIOR WALL</b>						
92							
93	<b>Walls</b>						
94							
95	<i>Pedestrian Bridge</i>						
96	GL-6B Aluminum Curtain Wall	36,143	SF	110.00	\$3,976,000		
97	Allowance For frit	36,143	SF	5.00	\$181,000		
98					\$0		
99	HM Doors	2	EA	1,000.00	\$2,000		
100							
101	<b>Subtotal: Walls</b>					\$4,159,000	
102							
103	<b>Exterior Stairs</b>						
104							
105	Structural steel framing - truss stairs	795	LFR	300.00	\$239,000		
106	Galv. Steel Railing w/ Mesh	266	LF	350.00	\$93,000		
107							

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Building Area: 23,225 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
	108 Subtotal: Exterior Stairs					\$332,000	
	109						
	110 EXTERIOR WALL						\$4,491,000
	111						
	112 INTERIOR PARTITIONS & FINISHES						
	113						
	114 Partitions						
	115						
A	A80	116	GWB wall sheeting	2,000	SF	4.00	\$8,000
		117	Miscellaneous partitions	250	LF	240.00	\$60,000
		118	Column casings	120	LF	100.00	\$12,000
		119	Safety barriers and barricades	1	LS	50,000.00	\$50,000
		120	Final cleaning	23225	SF	0.50	\$12,000
		121	OSHA protection	23,225	SF	0.50	\$12,000
		122	Protection of finished work	23,225	SF	0.50	\$12,000
		123					
	124 Subtotal: Partitions					\$166,000	
	125						
	126 Doors, Frames & Hardware						
	127						
	128 Set of 4 doors; 2 hr fire rated	1	EA	15,000.00		\$15,000	
	129 Miscellaneous doors	4	EA	2,000.00		\$8,000	
	130						
	131 Subtotal: Doors, Frames & Hardware					\$23,000	
	132						
	133 Interior Stairs						
	134					None Shown	
	135						
	136 Subtotal: Interior Stairs						\$0
	137						
	138 Floor Finishes						
	139						
A	A80	140	Thin set epoxy terrazzo	12,200	SF	22.00	\$268,000
A	A80	141	Terrazzo base	1,000	LF	12.00	\$12,000
		142					
	143 Subtotal: Floor Finishes						\$280,000
	144						
	145 Wall Finishes						
	146						
A	A80	147	Laminate veneer			Not Required	
		148	Paint	5,000	SF	1.20	\$6,000
		149					

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
150	<b>Subtotal: Wall Finishes</b>					\$6,000	
151							
152	<b>Ceiling Finishes</b>						
153							
A	A80	154	Acoustic ceiling planks		Not Required		
155							
156	<b>Subtotal: Ceiling Finishes</b>					\$0	
157							
158	<b>Interior Glass &amp; Glazing</b>						
159							
160	Glass balustrade	110	LF	500.00	\$55,000		
161							
162	<b>Subtotal: Interior Glass &amp; Glazing</b>					\$55,000	
163							
164	<b>Millwork</b>						
165							
166	Not required						
167							
168	<b>Subtotal: Interior Millwork</b>					\$0	
169							
170	<b>Specialties</b>						
171							
172	Signage - static	1	LS	4,000.00	\$4,000		
173							
174	<b>Subtotal: Specialties</b>					\$4,000	
175							
176	<b>INTERIOR PARTITIONS &amp; FINISHES</b>						\$534,000
177							
178	<b>VERTICAL TRANSPORTATION</b>						
179							
180	<b>Elevators</b>						
181							
182	Included with Building						
183							
184	<b>Subtotal: Elevators</b>					\$0	
185							
186	<b>Escalators and Moving Walks</b>						
187							
188	Escalator, glass balustrade, 25.0' vertical travel (ESC5,6)	2	EA	135,000.00	270,000		
189	Moving walk, glass balustrade, 150' travel; 56" wide	6	EA	290,000.00	1,740,000		
190							
191	<b>Subtotal: Escalators and Moving Walks</b>					\$2,010,000	

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Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
192							
193	VERTICAL TRANSPORTATION						\$2,010,000
194							
195	SPECIALITIES						
196							
197	N/A						
198							
199	SPECIALITIES						\$0
200							
201	EQUIPMENT & FURNISHINGS						
202							
203	Furnishings						
204							
205	Excluded						
206							
207	Subtotal: Furnishings					\$0	
208							
209	Artwork						
210							
211	Excluded						
212							
213	Subtotal: Artwork					\$0	
214							
215	EQUIPMENT & FURNISHINGS						\$0
216							
217	BAGGAGE HANDLING SYSTEM						
218							
219	Not required						
220							
221	BAGGAGE HANDLING SYSTEM						\$0
222							
223	SPECIAL CONSTRUCTION						
224							
225	N/A						
226							
227	SPECIAL CONSTRUCTION						\$0
228							
229	PLUMBING						
230							
231	Fixtures and Specialties (Based on Plumbing Dwg)				Not Included		
232							
233	Subtotal: Fixtures & Specialties					\$0	

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Building Area: 23,225 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
234							
235	<b>Domestic Water Distribution</b>						
236	Domestic Water System Equipment				Not included		
237	Domestic Cold Water System				Not included		
238	Domestic Hot Water System				Not included		
239	Domestic Water Piping (Hot & Cold)				Not included		
240							
241	<b>Subtotal: Domestic Water Distribution</b>					\$0	
242							
243	<b>Sanitary Drainage</b>						
244	Sanitary Drainage Equipment				Not included		
245	Sanitary Vent & Drainage Piping				Not included		
246							
247	<b>Subtotal: Sanitary Drainage</b>					\$0	
248							
249	<b>Storm Drainage</b>						
250	Storm Drainage Equipment						
251	Roof Drains (6" - 8")	24	EA	\$750.00	\$18,000		
252	Area Drains (4")				Not Included		
253	Overflow Drains				Not Included		
254	Syphonic Roof Drain System				Not Included		
255	Storm Drainage Piping						
256	Below ground - 4" - 6"	240	LF	\$60.00	\$14,000		
257	Below ground - 8" - 12"				Not Included		
258	Aboveground - 4"	1,800	LF	\$70.00	\$126,000		
259	Aboveground - 6"				Not Included		
260	Aboveground - 8"				Not Included		
261	Insulation for Horizontal Piping				Not Included		
262	Expansion Joints				Not Included		
263	Cleanouts	1	LS	\$20,000.00	\$20,000		
264	Overflow Drainage Piping				Not Included		
265	Stainless Steel Piping				Not Included		
266							
267	<b>Subtotal: Storm Drainage</b>					\$178,000	
268							
269	<b>Natural Gas Piping</b>				Not Included		
270							
271	<b>Subtotal: Natural Gas Piping</b>					\$0	
272							
273	<b>Equipment Hook-ups</b>				Not Included		
274							
275	<b>Subtotal: Equipment Hook-ups</b>					\$0	



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Building Area: 23,225 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
S/V	F82/F17	311			Not Required		
	8						
		312			Not Required		
			100 LF	\$35.00	\$4,000		
		313			Included		
		314			Not Included		
V	F178	315			Not Required		
		316					
		317	<b>Subtotal: Dry Systems</b>				\$4,000
		318					
		319	<b>PreAction Systems</b>				
		320			Not Included		
		321	<b>Subtotal: PreAction Systems</b>				\$0
		322					
		323	<b>Deluge Systems</b>				
		324			Not Included		
		325	<b>Subtotal: Deluge Systems</b>				\$0
		326					
		327	<b>Specialty Systems</b>				
		328			Not Included		
		329	<b>Subtotal: Specialty Systems</b>				\$0
		330					
		331	<b>Miscellaneous</b>				
		332	Independent (3rd party) Commissioning Agent			By Owner	
		333	Work with Owner Furnished Commissioning Agent			Included	
		334	Hydraulic Calculations, Layout & Shop Drawings			Included	
		335	As-Built Drawings, O&M Manuals & Warranty			Included	
		336	System Identification			Included	
		337	Controlled Inspections			Included	
		338	Controls & Control Wiring			Included	
		339	Pressure Testing & Flushing of Piping			Included	
		340	Equipment Startup & Testing			Included	
		341	Core Drilling			Included	
		342	Fire Stopping			Included	
		343	Seismic Restraints & Vibration Isolation			Included	
		344	Rigging, Hoisting & Aerial Lifts			Included	
		345	Scaffolding			Included	
		346	Job Trailers (Shanty) - Tool / Equip Storage			Included	
		347	Heat Tracing (Furnish) w/Insulation & Aluminum Jacketing			Included	
		348	Drip Pans			Included	
		349	Attic Stock			Included	
		350	Temporary Standpipe system			Use Permanent System	
		351	Temporary Fire Protection			Use Permanent System	
		352	Standby Labor & Fire Watch			Not Included	

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Building Area: 23,225 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
353	Detectors (Heat & Smoke)				w/Electrical		
354	Fire Alarm & Control Wiring				w/Electrical		
355	Trenching/Excavation/Backfill				w/Foundations		
356	Concrete Equipment Pads				w/Concrete		
357	Painting				w/Painting		
358	Roof Work				w/Roofing		
359	Concession Areas Fit-out				Not Included		
360	Overtime				Not Included		
361							
362	<b>Subtotal: Miscellaneous</b>					\$0	
363							
364	<b>FIRE PROTECTION</b>						\$130,000
365							
366	H.V.A.C.						
367							
368	H.V.A.C.						
369	<u>Heating &amp; Cooling Plant</u>						
370							
371	<u>Heating Plant</u>				Not Included		
372							
373	<b>Subtotal: Heating Plant</b>					\$0	
374							
375							
376	<u>Heating Equipment</u>				Not Included		
377	<u>Packaged Heat Exchanger</u>						
V H177 378	Hot Water Circulator Pumps [Duplex] (15 HP EA)				Not Required		
V H177 379	Hot Water Circulator Pumps [Duplex] (15 HP EA)				Not Required		
V H177 380	Variable Frequency Drive, 480 volt				Not Required		
V H177 381	Plate Frame Heat Exchanger				Not Required		
V H177 382	Glycol Feed System				Not Required		
V H177 383	Chemical Pot Feeder				Not Required		
V H177 384	Expansion Tanks				Not Required		
V H177 385	Air Separators				Not Required		
V H177 386							
387	<b>Subtotal: Heating Equipment</b>					\$0	
388							
389							
390	<u>Cooling Plant</u>				Not Included		
391							
392	<b>Subtotal: Cooling Plant</b>					\$0	
393							
394							
395	<u>Piping Distribution</u>						

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Building Area: 23,225 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
396							
397	<u>Hot Water Piping ( Mains &amp; Risers)</u>				Not Included		
398	<u>Glycol Hot Water Piping ( Mains &amp; Risers)</u>				Not Included		
399	<u>Glycol Hot Water Piping ( Secondary Mains &amp; Branches)</u>				Not Included		
400	3" - 6"	2,800	LF	\$85.00	\$238,000		
401	Piping Insulation	2,800	LF	\$15.00	\$42,000		
402	Valving & Misc. specialties	1	LS	\$10,000.00	\$10,000		
403	<u>Chilled Water Piping (Mains &amp; Risers)</u>				Not Included		
404	<u>Chilled Water Piping (Secondary Mains &amp; Branches)</u>				Not Included		
405	4" - 6"	2,800	LF	\$90.00	\$252,000		
406	Piping Insulation	2,800	LF	\$30.00	\$84,000		
407	Valving & Misc. specialties	1	LS	\$10,000.00	\$10,000		
408	<u>Glycol Condenser Water Piping</u>				Not Included		
409	<u>Condensate Drain Line</u>				Not Included		
410							
411	<b>Subtotal: Piping Distribution</b>					\$636,000	
412							
413							
414	<b><u>Air Distribution</u></b>						
415							
416	<u>Air Handling Unit (AHU-40, 41, 42 &amp; 43) (Air Train) (16,000</u>	64,000	CFM	\$5.00	\$320,000		
417	Supply Fan				Included		
418	Variable Frequency Drive (40 HP)	4	EA	\$10,000.00	\$40,000		
419	Air to Air Heat Exchanger				Not Included		
420	Copper Tube/Aluminum Fins				Included		
421	Hot Water Pre-Heating Coil				Not Included		
422	Hot Water Heating Coil				Included		
423	Chilled Water Cooling Coil				Included		
424	Pre & Final Filters				Included		
425	Carbon Filters	64,000	CFM	\$0.85	\$54,000		
426	Sound Traps	128,000	CFM	\$0.25	\$32,000		
427	Humidification				Not Included		
428	<u>Return Fan</u>	32,000	CFM	\$0.75	\$24,000		
429	Variable Frequency Drive (15 HP)	4	EA	\$5,000.00	\$20,000		
430	Galvanized Ductwork	42,800	LBS	\$8.50	\$364,000		
431	Acoustic Lining & Thermal Insulation	28,533	SF	\$3.50	\$100,000		
432	Volume Dampers				Included		
433	VAV Boxes	0	EA	\$1,500.00	\$0		
434	Reheat Coils	0	EA	\$1,500.00	\$0		
435	Air Flow Measuring Station	0	EA	\$500.00	\$0		
436	Motorized Dampers	0	SF	\$95.00	\$0		
437	Fire Smoke Dampers	0	SF	\$350.00	\$0		
438	Fire Dampers	71	SF	\$120.00	\$9,000		

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Air Train Connector

Building Area: 23,225 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
439	Grilles Registers & Diffusers	128	EA	\$175.00	\$22,000		
440	Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
441	Linear Diffusers	0	LF	\$100.00	\$0		
442	Louvers				Not Included		
443							
444	<u>Fan Coil Units</u>				Not Included		
445							
446	Heating & Ventilating Units				Not Included		
447							
448	<b>Subtotal: Air Distribution</b>					\$985,000	
449							
450	Supplemental A/C Systems				Not Included		
451							
452	<b>Subtotal: Supplemental AC Systems</b>					\$0	
453							
454							
455	Ventilation				Not Included		
456							
457	<b>Subtotal: Ventilation</b>					\$0	
458							
459							
460	Concession Exhaust				Not Included		
461							
462	<b>Subtotal: Concession Exhaust</b>					\$0	
463							
464							
465	Equipment Connections						
466	AHU Connection	4	EA	\$10,000.00	\$40,000		
467	Heat Exchanger Connection	1	EA	\$10,000.00	\$10,000		
468							
469	<b>Subtotal: Equipment Connections</b>					\$50,000	
470							
471							
472	Emergency Generator System				w/ Electrical		
473							
474	<b>Subtotal: Emergency Generator System</b>					\$0	
475							
476							
477	Fuel Oil System for Generators						
478					w/ Electrical		
479	<b>Subtotal: Fuel Oil System for Generators</b>					\$0	
480							

**Turner** ≡ Aviation

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Air Train Connector

Building Area: 23,225 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
481							
482	Temporary Heating & Cooling Programs						
483					w/ General Conditions		
484	Subtotal: Temporary Heating & Cooling Programs					\$0	
485							
486							
487	Automatic Temperature Controls				w/ Building		
488	DDC Temperature Control System						
489							
490	Subtotal: Automatic Temperature Controls					\$0	
491							
492	Testing & Balancing						
493	Building	23,225	SF	\$0.15	\$3,000		
494							
495	Subtotal: Testing & Balancing					\$3,000	
496							
497	Seismic & Vibration Isolation						
498	Building	23,225	SF	\$0.25	\$6,000		
499							
500	Subtotal: Seismic & Vibration Isolation					\$6,000	
501							
502	Miscellaneous						
503	Independent (3rd party) Commissioning Agent				By Owner		
504	Work with Owner Furnished Commissioning Agent				Included		
505	Engineering & Layout				Included		
506	As-Built Drawings & O&M Manuals				Included		
507	System Identification				Included		
508	Scaffolding (for pipe/duct/devices controlled by this trade)				Included		
509	Rigging & Hoisting				Included		
510	Startup & Test				Included		
511	Warranty				Included		
512	Heat Tracing - Chilled Water - Furnish Only				Included		
513	Fire Alarm/Life Safety				w/Electrical		
514	Motor Control Centers				w/Electrical		
515	Overtime				Not Included		
516	Painting of Ductwork/Piping				w/Painting		
517	Roof Work				w/Roofing		
518							
519	Subtotal: Miscellaneous					\$0	
520							
521	H.V.A.C.						\$1,680,000
522							
523	ELECTRICAL						

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Air Train Connector

Building Area: 23,225 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
524							
525	<b>Service &amp; Power Distribution</b>						
526	Service & Distribution	23,225	GSF	\$18.50	\$430,000		
527							
528	<b>Subtotal: Service &amp; Power Distribution</b>					\$430,000	
529							
530	<b>Lighting</b>						
531							
S	E83		Lighting				
S	E83		FAE	132	EA	\$1,089.00	\$144,000
S	E83		FAH	70	EA	\$1,584.00	\$111,000
S	E83		Allowance for Lighting Not Shown				
S	E83		Zone 13	10,000	SF	\$10.00	\$100,000
S	E83		Zone 15	417	SF	\$10.00	\$4,000
S	E83		Miscellaneous				
S	E83		Conduit & Wire	3,030	LF	\$7.50	\$23,000
S	E83		Exit Lights	1	LS	\$5,000.00	\$5,000
S	E83		Site Lighting				Not Included
532							
533	<b>Subtotal: Lighting</b>					\$387,000	
534							
535	<b>Lighting Controls</b>						
536						Not Shown	
537	<b>Subtotal: Lighting Controls</b>					\$0	
538							
539	<b>Convenience Power</b>						
540						Not Shown	
541	<b>Subtotal: Convenience Power</b>					\$0	
542							
543	<b>Equipment Connections</b>						
544	Equipment Connections	23,225	GSF	\$0.25	\$6,000		
545							
546	<b>Subtotal: Equipment Connections</b>					\$6,000	
547							
548	<b>Telecommunications</b>						
549	Telecom	23,225	GSF	\$3.50	\$81,000		
550	Information Systems	23,225	GSF	\$5.00	\$116,000		
551	PA System	23,225	GSF	\$2.25	\$52,000		
552							
553	<b>Subtotal: Telecommunications</b>					\$249,000	
554							

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Building Area: 23,225 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
555	Fire Alarm System						
556					Not Shown		
557	Subtotal: Fire Alarm System						\$0
558							
559	Security System						
560	CCTV & Access Control	23,225	GSF	\$10.00	\$232,000		
561							
562	Subtotal: Security System					\$232,000	
563							
564	Grounding System						
565					Not Shown		
566	Subtotal: Grounding Systems						\$0
567							
568	Lightening Protection System						
569					Not Shown		
570	Subtotal: Lightening Protection Systems						\$0
571							
572	Temporary Power & Light						
573					Not Shown		
574	Subtotal: Temporary Power & Light						\$0
575							
576	Metering System						
577					Not Shown		
578	Subtotal: Metering System						\$0
579							
580	Miscellaneous Systems						
581					Not Shown		
582	Subtotal: Miscellaneous Systems						\$0
583							
584	ELECTRICAL						\$1,304,000
585							
586	DEMOLITION						
587							
588	Excluded						
589							
590	DEMOLITION						\$0
591							
592	SITE WORK						
593							
594	See "Landside Civils"						
595							
596	SITE WORK						\$0
597							

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Air Train Connector

Building Area: 23,225 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
598	SITE UTILITIES						
599							
600	See "Landside Civils"						
601							
602	SITE UTILITIES						\$0
603							
604	FUELING SYSTEMS						
605							
606	N/A						
607							
608	FUELING SYSTEMS						\$0
609							
610							
611	<b>TOTAL DIRECT COST</b>				\$17,548,500	\$17,548,500	\$17,548,500

JetBlue Terminal 5  
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North & South Flight Tube

Building Area: 8,830 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
	<b>1 EXCAVATIONS AND FOUNDATIONS</b>						
	2						
	<b>3 Earthwork</b>						
	4 Mobilize	1	LS	35,000.00	\$35,000		
	5 Excavation						
V	A206	6	Pile caps	444	CY	40.00	\$18,000
		7	Trenching for grade beams	79	CY	40.00	\$3,000
		8	Elevator/escalator pits			NOT REQUIRED	
		9	Underslab utilities	52	CY	40.00	\$2,000
V	A206	10	General backfill	328	CY	20.00	\$7,000
S	EF1		Contaminated Soil Disposal Premiums	317	Tons	26.50	\$8,000
		11	Dewatering (local)	1	LS	50,000.00	\$50,000
		12	Grading	66	CY	15.00	\$1,000
		13	Line & grade surveys	1	LS	25,000.00	\$25,000
		14	Contaminated/Impaired Soil			NOT INCLUDED	
		15	Teamster	3	MO	15,014.00	\$45,000
		16	Master Mechanic	3	MO	23,286.00	\$70,000
		17	Maintenance Engineer	3	MO	17,618.00	\$53,000
		18	<b>Subtotal: Earthwork</b>				\$317,000
		19					
		20	<b>Piles</b>				
V	A206	21	Production Monotube piles - 8"x14"	2,320	LF	44.00	\$102,000
V	A206	22	Concrete for piles	73	CY	400.00	\$29,000
V	A206	23	Reinforcing steel piles	3	TON	3,000.00	\$9,000
		24	Removal of underground obstructions			INCLUDED	
		25	Removal of damaged piles due obstructions			NOT INCLUDED	
		26	Fusion bonded epoxy coating, upper 15'-0"			INCLUDED	
		27	Load Test - Compression			W/TERMINAL ESTIMATE	
		28	Load Test - Tension			W/TERMINAL ESTIMATE	
		29	Load Test - Lateral			W/TERMINAL ESTIMATE	
		30	Pile Dynamic Analysis (PDA)			W/TERMINAL ESTIMATE	
		31					
		32	<b>Subtotal: Piles</b>				\$140,000
		33					
		34	<b>Foundations</b>				
V	A206	35	Concrete for pile caps	180	CY	400.00	\$72,000
V	A206	36	Reinforcing steel for pile caps	4	TON	3,000.00	\$12,000
		37	Concrete for wing walls	57	CY	850.00	\$48,000
		38	Reinforcing steel for wing walls	3	TON	3,000.00	\$9,000
		39	Concrete for abutments	172	CY	1,000.00	\$172,000
		40	Reinforcing steel for abutments	4	TON	550.00	\$2,000
		41	Concrete for grade beams	15	CY	550.00	\$8,000

JetBlue Terminal 5  
 JFK Airport New York, New York  
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North & South Flight Tube

Building Area: 8,830 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
42	Reinforcing steel for grade beams	1	TON	3,000.00	\$3,000		
43	Crane/hoist pads				NOT REQUIRED		
44	Winter concreting				NOT INCLUDED		
45	Foundation drainage system				NOT INCLUDED		
46	Rigid insulation at perimeter				NOT REQUIRED		
47							
48	<b>Subtotal: Foundations</b>					\$326,000	
49							
50	<b>Slab-On-Grade</b>						
51	Concrete for 10" S.O.G.	55	CY	600.00	\$33,000		
52	Reinforcing steel for 10" S.O.G.	5	TON	3,000.00	\$15,000		
53	Moisture barrier	1,500	SF	1.75	\$3,000		
54							
55	<b>Subtotal: Slab-On-Grade</b>					\$51,000	
56							
57	<b>Waterproofing</b>						
58							
59	Waterproofing				NOT REQUIRED		
60							
61	<b>Subtotal: Waterproofing</b>					\$0	
62							
63	<b>EXCAVATIONS AND FOUNDATIONS</b>						\$834,000
64							
65	<b>STRUCTURAL FRAME</b>						
66							
67	<b>Concrete Fill on Deck</b>						
68							
V	A206	69	Concrete fill on metal floor deck, 4" (tube only)	30	CY	500.00	\$15,000
V	A206	70	Reinforcing Steel - Assume WWF	1,409	SF	0.85	\$1,000
V	A206	71	Shot-Concrete cover for tube exterior, 1 3/4" thick, Wire Mesh and Lath	7,799	SF	40.00	\$312,000
72							
73	<b>Subtotal: Concrete Fill on Deck</b>					\$328,000	
74							
75	<b>Concrete Substructures</b>						
76							
V	A206	77	Pier Structures	21	CY	1,200.00	\$25,000
V	A206	78	Reinforcing Steel	1	TNS	3,000.00	\$3,000
		79	CIP Abutment Walls (East & West)				w/ Foundations
S	S8	80	Sandblast Finish	1,568	SF	2.50	\$3,920
81	<b>Subtotal: Concrete Substructure</b>					\$31,920	
82							
83	<b>Metal Deck &amp; Studs</b>						

JetBlue Terminal 5  
 JFK Airport New York, New York  
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North & South Flight Tube

Building Area: 8,830 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
	84 North Tube						
V	A206						
	85 Metal floor deck (tube only)	1,409	SF	3.50	\$5,000		
	86 Metal roof deck (tube only)				Not Required		
	87 South Tube						
	88 Metal floor deck (tube only)				Not Required		
	89 Metal roof deck (tube only)				Not Required		
	90						
	91 Subtotal: Metal Deck & Studs					\$5,000	
	92						
	93 Steel Superstructure						
V	A206						
	94 North Tube						
	95 Structural steel framing - tube framing	58	TNS	4,000.00	\$232,000		
	96 Structural steel framing - internal framing				Included		
	97 Structural steel framing - tie-in framing (floor & roof)	9	TNS	4,000.00	\$36,000		
	98 Structural steel framing - tie-in trusses	8	TNS	4,000.00	\$32,000		
	99 Structural steel framing - columns	2	TNS	4,000.00	\$8,000		
V	A206						
	100 Structural steel framing connections	8	TNS	4,000.00	\$32,000		
	101						
	102 Premium for Bridge Bearings	1	ALLOV	20,000.00	\$20,000		
	103 South Tube						
	104 Structural steel framing - tube framing				Not Required		
	105 Structural steel framing - internal framing				Not Required		
	106 Structural steel framing - tie-in framing (floor & roof)	9	TNS	4,000.00	\$36,000		
	107 Structural steel framing - tie-in trusses	8	TNS	4,000.00	\$32,000		
	108 Structural steel framing - columns	2	TNS	4,000.00	\$8,000		
	109 Structural steel framing connections	2	TNS	4,000.00	\$8,000		
	110						
	111 Premium for Bridge Bearings	1	ALLOV	20,000.00	\$20,000		
	112						
	113						
	114 Subtotal: Steel Superstructure					\$464,000	
	115						
	116 Spray On Fireproofing						
	117						
	118 Spray On Fireproofing - North Tube	24,100	SF	2.40	\$58,000		
	119 Spray On Fireproofing - South Tube	3,600	SF	2.40	\$9,000		
	120 Subtotal: Spray On Fireproofing					\$67,000	
	121						
	Expansion Joints						
S	S7						
	Expansion Joints	60	LF	150.00	\$9,000		

**Turner** Aviation

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**North & South Flight Tube**

Building Area: 8,830 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals	
				\$	\$	\$	\$	
	<b>Subtotal: Expansion Joints</b>						\$9,000	
	155							
	122	<b>STRUCTURAL FRAME</b>					\$904,920	
	123							
	124	<b>ROOFING AND WATERPROOFING</b>						
	125							
	126	<b>Rough Carpentry</b>						
	127							
	128	Allowance for rough carpentry	4,200	SF	1.50	\$6,000		
	129							
	130	<b>Subtotal: Rough Carpentry</b>					\$6,000	
	131							
	132	<b>Roof</b>						
	133							
A	A10	134	Standing seam metal roof and insulation	4,200	SF	45.00	\$189,000	
		135	Parapet flashing and lining	375	LF	40.00	\$15,000	
		136						
		137	<b>Subtotal: Roof</b>				\$204,000	
		138						
		139	<b>ROOFING AND WATERPROOFING</b>					\$210,000
		140						
		141	<b>EXTERIOR WALL</b>					
		142						
		143	<b>Walls</b>					
		144						
		145	<b>Flight Tube- North</b>					
	A13/A10	146	M-2 Zinc Interlocking Flat Panels	1,754	SF	50.00	\$88,000	
SV	1							
	A13/A10	147	Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice/water shield				Included	
SV	1							
	A13/A10	148	Rigid insulation board; 2" thick				Included	
SV	1							
		149	M-3 Batten Seam Roof System	2,265	SF	28.00	\$63,000	
		150	Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice	2,265	SF	16.00	\$36,000	
		151	Rigid insulation board; 2" thick	2,265	SF	3.00	\$7,000	
S	A13	152	M-7 Flat Aluminum panel	4,008	SF	47.00	\$188,000	
S	A13	153	Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice/water shield				Included	
S	A13	154	Rigid insulation board; 2" thick				Included	
		155	Continuous aluminum louver; 3' 0" high	80	SF	85.00	\$7,000	
		156						
		157	<b>Flight Tube- South</b>					

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**North & South Flight Tube**

Building Area: 8,830 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
A13/A10	158 M-2 Zinc Interlocking Flat Panels						
S/V 1		1,677	SF	50.00	\$84,000		
A13/A10	159 Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice/water shield				Included		
S/V 1							
A13/A10	160 Rigid insulation board; 2" thick				Included		
S/V 1							
	161 M-3 Batten Seam Roof System	229	SF	28.00	\$6,000		
	162 Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice	229	SF	16.00	\$4,000		
	163 Rigid insulation board; 2" thick	229	SF	3.00	\$1,000		
S A13	164 M-7 Flat Aluminum panel	3,934	SF	47.00	\$185,000		
S A13	165 Exterior GWB sheathing; 5/8" thick; incl. stud framing and ice/water shield				Included		
S A13	166 Rigid insulation board; 2" thick				Included		
	167 Continuous aluminum louver; 3' 0" high				Not Required		
	168						
	169 Subtotal: Walls					\$669,000	
	170						
	171 Windows						
	172 Flight Tube- North						
	173 Aluminum Framed Curtain Wall- GL-2A	169	SF	110.00	\$19,000		
	174 Fritted area- GL-2B	249	SF	115.00	\$29,000		
	175 Flight Tube- South						
	176 Aluminum Framed Curtain Wall	269	SF	110.00	\$30,000		
	177 Fritted area- GL-2B	311		115.00	\$36,000		
	178						
	179 Subtotal: Windows					\$114,000	
	180						
	181 Exterior Doors and Vestibules						
	182 Flight Tube- North						
	183 HM Doors	42	EA	1,000.00	\$2,000		
	184 Flight Tube- South						
	185 HM Doors	42	EA	1,000.00	\$2,000		
	186						
	187 Subtotal: Exterior Doors and Vestibules					\$4,000	
	188						
	189 Sealants						
	190 Exterior wall sealants	13,867	SFCA	1.00	\$14,000		
	191						
	192 Subtotal: Sealants					\$14,000	
	193						
	194 EXTERIOR WALL						\$801,000
	195						
	196 INTERIOR PARTITIONS & FINISHES						

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North & South Flight Tube

Building Area: 8,830 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
	197						
	198 <b>Partitions</b>						
	199						
V	A206	200	Plaster	4,895	SF	10.00	\$49,000
	201	Final cleaning	8,830	SF	0.50	\$4,000	
	202	Safety barriers and barricades	1	LS	100,000.00	\$100,000	
	203	OSHA protection	8,830	SF	0.50	\$4,000	
	204	Protection of finished work	8,830	SF	0.50	\$4,000	
	205						
	206	<b>Subtotal: Partitions</b>					\$161,000
	207						
	208 <b>Doors, Frames &amp; Hardware</b>						
	209						
	210	Miscellaneous doors	2	EA	2,000.00	\$4,000	
	211						
	212	<b>Subtotal: Doors, Frames &amp; Hardware</b>					\$4,000
	213						
	214 <b>Interior Stairs</b>						
	215						
	216 <b>Monumental Stair #5</b>						
	217	Metal pan stair and concrete fill	76	LFR	40.00	\$3,000	
	218	Glass Handrail	82	LF	600.00	\$49,000	
	219	Terrazzo Treads/Landings	140	SF	30.00	\$4,000	
	220						
	221 <b>Monumental Stair #1</b>						
	222	Metal pan stair and concrete fill	76	LFR	40.00	\$3,000	
	223	Glass Handrail	82	LF	600.00	\$49,000	
	224	Terrazzo Treads/Landings	171	SF	30.00	\$5,000	
	225						
	226	<b>Subtotal: Interior Stairs</b>					\$113,000
	227						
	228 <b>Floor Finishes</b>						
	229						
V	A206	230	Floor Allowance	1,406	SF	10.00	\$14,000
	231						
	232	<b>Subtotal: Floor Finishes</b>					\$14,000
	233						
	234 <b>Wall Finishes</b>						
	235						
	236	Circulation - porcelain panels (assumed at perimeter - 2' high)	1,000	SF	20.00	\$20,000	
	237						
	238	<b>Subtotal: Wall Finishes</b>					\$20,000



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**North & South Flight Tube**

Building Area: 8,830 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
	281 Escalators and Moving Walks						
	282						
V	A206 283 Moving Walks - East Direction; 148' travel; 40" wide				Not Required		
	284 Moving Walks - West Direction				Not Required		
	285 Historic Connector						
	286 Clean & Repair	150	LF	1,000.00	150,000		
	287						
	288 Subtotal: Escalators and Moving Walks					\$150,000	
	289						
	290 VERTICAL TRANSPORTATION						\$350,000
	291						
	292 SPECIAL EQUIPMENT						
	293						
	294 N/A				Not Required		
	295						
	296 SPECIALITIES						\$0
	297						
	298 EQUIPMENT & FURNISHINGS						
	299						
	300 Furnishings						
	301						
	302 Excluded						
	303						
	304 Subtotal: Furnishings					\$0	
	305						
	306 Artwork						
	307						
	308 Excluded						
	309						
	310 Subtotal: Artwork					\$0	
	311						
	312 EQUIPMENT & FURNISHINGS						\$0
	313						
	314 BAGGAGE HANDLING SYSTEM						
	315						
	316 N/A				Not Required		
	317						
	318 BAGGAGE HANDLING SYSTEM						\$0
	319						
	320 SPECIAL CONSTRUCTION						
	321						
	322 N/A						

JetBlue Terminal 5  
 JFK Airport New York, New York  
 60% CD Estimate  
 April 20, 2005

North & South Flight Tube

Building Area: 8,830 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
323							
324	<b>SPECIAL CONSTRUCTION</b>						\$0
325							
326	<b>PLUMBING</b>						
327							
328	Fixtures and Specialties (Based on Plumbing Dwgs)				Not Included		
329							
330	<b>Subtotal: Fixtures &amp; Specialties</b>					\$0	
331							
332	<b>Domestic Water Distribution</b>				Not Included		
333	Domestic Water System Equipment						
334	Domestic Cold Water System						
335	Domestic Hot Water System						
336	Domestic Water Piping (Hot & Cold)						
337							
338	<b>Subtotal: Domestic Water Distribution</b>					\$0	
339							
340	<b>Sanitary Drainage</b>				Not Included		
341	Sanitary Drainage Equipment						
342	Sanitary Vent & Drainage Piping						
343							
344	<b>Subtotal: Sanitary Drainage</b>					\$0	
345							
346	<b>Storm Drainage</b>						
347	Storm Drainage Equipment						
V A206 348	Roof Drains (6"- 8")	13	EA	\$750.00	\$10,000		
349	Area Drains (4")				Not Included		
350	Overflow Drains				Not Included		
351	Syphonic Roof Drain System				Not Included		
352	Storm Drainage Piping						
V A206 353	Below ground - 4" - 6"	130	LF	\$60.00	\$8,000		
354	Below ground - 8" -12"				Not Included		
V A206 355	Aboveground - 4"	650	LF	\$70.00	\$46,000		
356	Aboveground - 6"				Not Included		
357	Aboveground - 8"				Not Included		
358	Insulation for Horizontal Piping				Not Included		
359	Expansion Joints				Not Included		
V A206 360	Cleanouts	1	LS	\$5,000.00	\$5,000		
361	Overflow Drainage Piping				Not Included		
362	Stainless Steel Piping				Not Included		
363							
364	<b>Subtotal: Storm Drainage</b>					\$69,000	

JetBlue Terminal 5  
 JFK Airport New York, New York  
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North & South Flight Tube

Building Area: 8,830 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
365							
366	Natural Gas Piping				Not Included		
367							
368	Subtotal: Natural Gas Piping					\$0	
369							
370	Equipment Hook-ups				Not Included		
371							
372	Subtotal: Equipment Hook-ups					\$0	
373							
374	Site Utilities (up to 5' outside of building)						
375	Storm Lines To Building				w/Site Utilities		
376							
377	Subtotal: Site Utilities					\$0	
378							
379	Food Service Fit-Out				Not Included		
380							
381	Subtotal: Food Service Fit-Out					\$0	
382							
383	Miscellaneous						
384	Historic Connector						
385	Clean & Repair	5,000	SF	\$4.00	\$20,000		
386							
387	Subtotal: Miscellaneous					\$20,000	
388							
389	PLUMBING						\$89,000
390							
391	FIRE PROTECTION						
392							
393	Equipment & Accessories				Not Included		
394							
395	Subtotal: Equipment & Accessories					\$0	
396							
397	Fire Standpipe System						
398	Fire Standpipe Risers & Main Piping (6")	225	LF	\$80.00	\$18,000		
399	Siamese Connections				Not Included		
400	Fire Hose Racks/Cabinets	1	EA	\$2,000.00	\$2,000		
401	Misc. Valves & Specialties	1	LS	\$5,000.00	\$5,000		
402	Roof Manifold				Not Included		
403							
404	Subtotal: Fire Standpipe System					25,000	
405							
406							
407	Wet System Sprinkler Piping & Heads						

JetBlue Terminal 5  
 JFK Airport New York, New York  
 60% CD Estimate  
 April 20, 2005

North & South Flight Tube

Building Area: 8,830 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
408	Sprinkler Main Piping - Horizontal from Local Pipe (4"-6")	100	LF	\$80.00	\$8,000		
409	Arrival Level						
410	SP Zone XX						
V A206 411	Alarm Control Valve Assembly (ACV) (4")				Not Required		
412	Sprinkler Heads	120	EA	\$375.00	\$45,000		
413	Sprinkler Main Piping (4")	250	LF	\$50.00	\$13,000		
414	Drain Piping (2")	100	LF	\$35.00	\$4,000		
415	Sprinkler Branch Piping				Included		
416	Misc. Valves & Specialties	1	LS	\$10,000.00	\$10,000		
417							
418	<b>Subtotal: Wet System Sprinkler Piping &amp; Heads</b>					\$80,000	
419							
420	<b>Dry Systems</b>				Not Included		
421							
422	<b>Subtotal: Dry Systems</b>					\$0	
423							
424	<b>PreAction Systems</b>				Not Included		
425							
426	<b>Subtotal: PreAction Systems</b>					\$0	
427							
428	<b>Deluge Systems</b>				Not Included		
429							
430	<b>Subtotal: Deluge Systems</b>					\$0	
431							
432	<b>Specialty Systems</b>				Not Included		
433							
434	<b>Subtotal: Specialty Systems</b>					\$0	
435							
436	<b>Miscellaneous</b>						
437	Independent (3rd party) Commissioning Agent				By Owner		
438	Work with Owner Furnished Commissioning Agent				Included		
439	Hydraulic Calculations, Layout & Shop Drawings				Included		
440	As-Built Drawings, O&M Manuals & Warranty				Included		
441	System Identification				Included		
442	Controlled Inspections				Included		
443	Controls & Control Wiring				Included		
444	Pressure Testing & Flushing of Piping				Included		
445	Equipment Startup & Testing				Included		
446	Core Drilling				Included		
447	Fire Stopping				Included		
448	Seismic Restraints & Vibration Isolation				Included		
449	Rigging, Hoisting & Aerial Lifts				Included		

**Turner** ≡ Aviation

**JetBlue Terminal 5**

JFK Airport New York, New York

60% CD Estimate

April 20, 2005

**North & South Flight Tube**

Building Area: 8,830 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
450	Scaffolding				Included		
451	Job Trailers (Shanty) - Tool / Equip Storage				Included		
452	Heat Tracing (Furnish) w/Insulation & Aluminum Jacketing				Included		
453	Drip Pans				Included		
454	Attic Stock				Included		
455	Temporary Standpipe system				Use Permanent System		
456	Temporary Fire Protection				Use Permanent System		
457	Standby Labor & Fire Watch				Not Included		
458	Detectors (Heat & Smoke)				w/Electrical		
459	Fire Alarm & Control Wiring				w/Electrical		
460	Trenching/Excavation/Backfill				w/Foundations		
461	Concrete Equipment Pads				w/Concrete		
462	Painting				w/Painting		
463	Roof Work				w/Roofing		
464	Concession Areas Fit-out				Not Included		
465	Overtime				Not Included		
466							
467	Historic Connector						
468	Clean & Repair	5,000	SF	\$3.00	\$15,000		
469	<b>Subtotal: Miscellaneous</b>					\$15,000	
470							
471	<b>FIRE PROTECTION</b>						\$120,000
472							
473	H.V.A.C.						
474							
475	H.V.A.C.						
476	<u>Heating &amp; Cooling Plant</u>						
477							
478	<u>Heating Plant</u>				Not Included		
479							
480	<b>Subtotal: Heating Plant</b>					\$0	
481							
482							
483	<u>Heating Equipment</u>						
484	HW Cabinet Unit Heater w/ Integral Controls	2	EA	\$3,500.00	\$7,000		
485							
486	<b>Subtotal: Heating Equipment</b>					\$7,000	
487							
488							
489	<u>Cooling Plant</u>				Not Included		
490							
491	<b>Subtotal: Cooling Plant</b>					\$0	
492							

JetBlue Terminal 5  
 JFK Airport New York, New York  
 60% CD Estimate  
 April 20, 2005

North & South Flight Tube

Building Area: 8,830 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
	493						
	494 <u>Piping Distribution</u>						
	495						
	496 <u>Hot Water Piping (Mains &amp; Risers)</u>				Not Included		
	497 <u>Glycol Hot Water Piping (Mains &amp; Risers)</u>				Not Included		
V	A206 498 <u>Glycol Hot Water Piping (Secondary Mains &amp; Branches)</u>				Not Required		
V	A206 499 1-1/2" - 4"				Not Required		
V	A206 500 Piping Insulation				Not Required		
V	A206 501 Valving & Misc. specialties				Not Required		
V	A206 502 <u>Chilled Water Piping (Mains &amp; Risers)</u>				Not Required		
V	A206 503 <u>Chilled Water Piping (Secondary Mains &amp; Branches)</u>				Not Required		
V	A206 504 1-1/2" - 4"				Not Required		
V	A206 505 Piping Insulation				Not Required		
V	A206 506 Valving & Misc. specialties				Not Required		
V	A206 507 <u>Glycol Condenser Water Piping</u>				Not Included		
V	A206 508 <u>Condensate Drain Line</u>				Not Included		
	509						
	510 <u>Subtotal: Piping Distribution</u>					\$0	
	511						
	512						
	513 <u>Air Distribution</u>						
	514						
V	A206 515 <u>Air Handling Unit [AHU-38] [North Flight Tube]</u>				Not Required		
V	A206 516 Supply Fan				Not Required		
V	A206 517 Variable Frequency Drive (25 HP)				Not Required		
V	A206 518 Air to Air Heat Exchanger				Not Required		
V	A206 519 Copper Tube/Aluminum Fins				Not Required		
V	A206 520 Hot Water Pre-Heating Coil				Not Required		
V	A206 521 Hot Water Heating Coil				Not Required		
V	A206 522 Chilled Water Cooling Coil				Not Required		
V	A206 523 Pre & Final Filters				Not Required		
V	A206 524 Carbon Filters				Not Required		
V	A206 525 Sound Traps				Not Required		
V	A206 526 Humidification				Not Required		
V	A206 527 <u>Return Fan</u>				Not Required		
V	A206 528 Variable Frequency Drive (10 HP)				Not Required		
V	A206 529 Galvanized Ductwork	9,800	LBS	\$8.50	\$83,000		
V	A206 530 Acoustic Lining & Thermal Insulation	6,533	SF	\$3.50	\$23,000		
V	A206 531 Volume Dampers				Not Required		
V	A206 532 VAV Boxes				Not Required		
V	A206 533 Reheat Coils				Not Required		
V	A206 534 Air Flow Measuring Station				Not Required		
V	A206 535 Motorized Dampers	16	SF	\$95.00	\$2,000		

JetBlue Terminal 5  
 JFK Airport New York, New York  
 60% CD Estimate  
 April 20, 2005

North & South Flight Tube

Building Area: 8,830 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
V	A206 536 Fire Smoke Dampers	0	SF	\$350.00	\$0		
V	A206 537 Fire Dampers	24	SF	\$120.00	\$3,000		
V	A206 538 Grilles Registers & Diffusers	0	EA	\$175.00	\$0		
V	A206 539 Jet Nozzle Diffusers	0	EA	\$200.00	\$0		
V	A206 540 Linear Diffusers	240	LF	\$100.00	\$24,000		
V	A206 541 Louvers	64	SF	\$80.00	\$5,000		
V	A206 542 Connections to Existing Ductwork in Saarin Building	1	ALLOV	\$10,000.00	\$10,000		
	543 <u>Fan Coil Units</u>				Not Included		
	544						
	545 Heating & Ventilating Units				Not Included		
	546						
	547 Subtotal: Air Distribution					\$150,000	
	548						
	549						
	550 Supplemental A/C Systems				Not Included		
	551						
	552 Subtotal: Supplemental AC Systems					\$0	
	553						
	554						
	555 Ventilation				Not Included		
	556						
	557 Subtotal: Ventilation					\$0	
	558						
	559						
	560 Concession Exhaust				Not Included		
	561						
	562 Subtotal: Concession Exhaust					\$0	
	563						
	564						
	565 Equipment Connections						
	566						
V	A206 567 AHU Connection				Not Required		
	568						
	569 Subtotal: Equipment Connections					\$0	
	570						
	571						
	572 Emergency Generator System				w/ Electrical		
	573						
	574 Subtotal: Emergency Generator System					\$0	
	575						
	576						
	577 Fuel Oil System for Generators						
	578				w/ Electrical		

**JetBlue Terminal 5**  
 JFK Airport New York, New York  
 60% CD Estimate  
 April 20, 2005

**North & South Flight Tube**

Building Area: 8,830 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
579	Subtotal: Fuel Oil System for Generators					\$0	
580							
581							
582	Temporary Heating & Cooling Programs						
583					w/ General Conditions		
584	Subtotal: Temporary Heating & Cooling Programs					\$0	
585							
586							
587	Automatic Temperature Controls				w/ Building		
588	DDC Temperature Control System						
589							
590	Subtotal: Automatic Temperature Controls					\$0	
591							
592	Testing & Balancing						
593	Building	8,830	SF	\$0.15	\$1,000		
594							
595	Subtotal: Testing & Balancing					\$1,000	
596							
597	Seismic & Vibration Isolation						
598	Building	8,830	SF	\$0.25	\$2,000		
599							
600	Subtotal: Seismic & Vibration Isolation					\$2,000	
601							
602	Miscellaneous						
603	Independent (3rd party) Commissioning Agent				By Owner		
604	Work with Owner Furnished Commissioning Agent				Included		
605	Engineering & Layout				Included		
606	As-Built Drawings & O&M Manuals				Included		
607	System Identification				Included		
608	Scaffolding (for pipe/duct/devices controlled by this trade)				Included		
609	Rigging & Hoisting				Included		
610	Startup & Test				Included		
611	Warranty				Included		
612	Heat Tracing - Chilled Water - Furnish Only				Included		
613	Factory Testing of one new AHU				Included		
614	Fire Alarm/Life Safety				w/Electrical		
615	Motor Control Centers				w/Electrical		
616	Overtime				Not Included		
617	Painting of Ductwork/Piping				w/Painting		
618	Roof Work				w/Roofing		
619	Historic Connector						
620	Clean & Repair	5,000	SF	\$15.00	\$75,000		
621							

JetBlue Terminal 5  
 JFK Airport New York, New York  
 60% CD Estimate  
 April 20, 2005

North & South Flight Tube

Building Area: 8,830 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
622	Subtotal: Miscellaneous					\$75,000	
623							
624	H.V.A.C.						\$235,000
625							
626	ELECTRICAL						
627							
628	Service & Power Distribution						
629	Service & Distribution	1,406	GSF	\$18.50	\$26,000		
630							
631	Subtotal: Service & Power Distribution					\$26,000	
632							
633	Lighting						
V	A206 Lighting - Allowance for New Area to Match Existing	1,406	GSF	\$6.00	\$8,000		
	E75/A20						
S/V	6 Zone 14						
	E75/A20						
S/V	6 FAC						Not Required
	E75/A20						
S/V	6 FAD						Not Required
	E75/A20						
S/V	6 Zone 15						
	E75/A20						
S/V	6 FAC						Not Required
	E75/A20						
S/V	6 Allowance for Lighting Now Shown						
	E75/A20						
S/V	6 Zone 14						Not Required
	E75/A20						
S/V	6 Zone 15						Not Required
	E75/A20						
S/V	6 Miscellaneous						
	E75/A20						
S/V	6 Conduit & Wire						Not Required
	E75/A20						
S/V	6 Exit Lights						Not Required
	E75/A20						
S/V	6 Site Lighting						Not Included
	E75/A20						
634							
635							
636	Subtotal: Lighting					\$8,000	
637							
638	Lighting Controls						
639							Not Shown

JetBlue Terminal 5  
 JFK Airport New York, New York  
 60% CD Estimate  
 April 20, 2005

**North & South Flight Tube**

Building Area: 8,830 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
640	<b>Subtotal: Lighting Controls</b>					\$0	
641							
642	<b>Convenience Power</b>						
643					Not Shown		
644	<b>Subtotal: Convenience Power</b>					\$0	
645							
646	<b>Equipment Connections</b>						
647	Equipment Connections	8,830	GSF	\$0.25	\$2,000		
648							
649	<b>Subtotal: Equipment Connections</b>					\$2,000	
650							
651	<b>Telecommunications</b>						
652	Telecom	8,830	GSF	\$3.50	\$31,000		
653	Information Systems	8,830	GSF	\$5.00	\$44,000		
654	PA System	8,830	GSF	\$2.25	\$20,000		
655							
656	<b>Subtotal: Telecommunications</b>					\$95,000	
657							
658	<b>Fire Alarm System</b>						
659							
660	<b>Subtotal: Fire Alarm System</b>					\$0	
661							
662	<b>Security System</b>						
663	CCTV & Access Control	8,830	GSF	\$10.00	\$88,000		
664							
665	<b>Subtotal: Security System</b>					\$88,000	
666							
667	<b>Grounding System</b>						
668					Not Shown		
669	<b>Subtotal: Grounding Systems</b>					\$0	
670							
671	<b>Lightening Protection System</b>						
672					Not Shown		
673	<b>Subtotal: Lightening Protection Systems</b>					\$0	
674							
675	<b>Temporary Power &amp; Light</b>						
676					Not Shown		
677	<b>Subtotal: Temporary Power &amp; Light</b>					\$0	
678							
679	<b>Metering System</b>						
680					Not Shown		
681	<b>Subtotal: Metering System</b>					\$0	

**JetBlue Terminal 5**  
 JFK Airport New York, New York  
 60% CD Estimate  
 April 20, 2005

**North & South Flight Tube**

Building Area: 8,830 GSF

Rank	Building System	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
				\$	\$	\$	\$
682							
683	Miscellaneous						
684	Historic Connector						
685	Clean & Repair	5,000	SF	\$10.00	\$50,000		
686							
687	Subtotal: Miscellaneous					\$50,000	
688							
689	ELECTRICAL						\$269,000
690							
691	DEMOLITION						
692							
693	Whole Building demolition						
694							
V A206 695	Demolish existing flight tube				w/ Terminal/Concourse		
696							
697	Subtotal: Whole Building Demolition					\$0	
698							
699	DEMOLITION						\$0
700							
701	SITE WORK						
702							
703	See "Landside Civils"						
704							
705	SITE WORK						\$0
706							
707	SITE UTILITIES						
708							
709	See "Landside Civils"						
710							
711	SITE UTILITIES						\$0
712							
713	FUELING SYSTEMS						
714							
715	N/A				Not Required		
716							
717	FUELING SYSTEMS						\$0
718							
719							
720	<b>TOTAL DIRECT COST</b>				\$4,324,920	\$4,324,920	\$4,324,920

**Section 1.2**

**Parking Garage**



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JFK International Airport  
Terminal 5  
Redevelopment

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Parking Garage –  
Conceptual Estimate #5

November 7, 2005



THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY

JOHN F. KENNEDY  
INTERNATIONAL AIRPORT

Stage 2 Construction Trade Cost Estimate

EXHIBIT 2.11 Part 2 of 2

TERMINAL 5 - PARKING GARAGE - COMPARISON OF TCCO ESTIMATES TO PA ESTIMATE

**DIRECT COSTS ONLY**

BUILDING SYSTEM	TCCO ESTIMATE #5 REVISED	PA ESTIMATE
HOISTING AND PROTECTION	0	0
CIVIL - SANITARY	W / Underground Utilities	262,300
CIVIL - WATER	W / Underground Utilities	1,052,500
CIVIL - STORM DRAINAGE	W / Underground Utilities	282,900
CIVIL - MISCELLANEOUS	W / Underground Utilities	88,750
EXCAVATIONS	1,065,500	W / TRADES
PILES	4,039,900	3,042,550
FOUNDATIONS	3,277,100	1,738,600
PRECAST CONCRETE STRUCTURE	16,294,000	15,743,300
STRUCTURAL CONCRETE	480,000	0
UNIT MASONRY	250,000	150,000
Metal Screen Wall	Not Included	2,377,200
MISCELLANEOUS METALS	1,610,000	1,012,000
WATERPROOFING / ROOFING	280,500	235,000
JOINT SEALERS	50,000	w/ TRADES

Turner Construction Company

November 7, 2005

JFK Terminal 5 Parking Garage - Conceptual Estimate

COMPARISON TO PA ESTIMATE

TERMINAL 5 - PARKING GARAGE - COMPARISON OF TCCO ESTIMATES TO PA ESTIMATE  
**DIRECT COSTS ONLY**

BUILDING SYSTEM	TCCO ESTIMATE #5 REVISED	PA ESTIMATE
FIREPROOFING	5,000	w/ TRADES
DOORS & HARDWARE	60,000	200,000
ENTRANCE & STOREFRONT	1,216,000	1,325,000
ROUGH CARPENTRY	4,000	w / TRADES
PAINTING	279,500	300,000
SPECIALTIES	287,500	644,000
VERTICAL TRANSPORTATION	1,900,000	1,900,000
PLUMBING	1,400,000	1,043,150
FIRE PROTECTION	0	W / Above
HVAC	200,000	600,000
ELECTRICAL	6,423,800	7,315,000
DEMOLITION	In Excavation	In Excavation
<b>SUBTOTAL - DIRECT COST</b>	<b>39,122,800</b>	<b>39,312,250</b>
<b>ALTERNATES</b>		
ALT. #1 - TOLL BOOTHS	3,400,700	1,885,600
ALT. #2 - ROADWAYS	3,408,000	2,113,950
ALT. #3 - BRIDGE TO AIR TRAIN	345,900	400,000
ALT. #4 - EXTERIOR RAMPS	3,512,700	2,765,000
ALT. #5 - SITE PROTECTION (DIRECT COST)	403,200	NOT INCLUDED
ALT #6 - ASPHALT IN LIEU OF CONCRETE SOG	(1,003,000)	W / BASE

November 7, 2005

JFK Terminal 5 Parking Garage - Conceptual Estimate  
 COMPARISON TO PA ESTIMATE

TERMINAL 5 - PARKING GARAGE - COMPARISON OF TCCO ESTIMATES TO PA ESTIMATE  
**DIRECT COSTS ONLY**

BUILDING SYSTEM	TCCO ESTIMATE #5 REVISED	PA ESTIMATE
ALT #7 - ADD METAL PANEL	NOT INCLUDED	W / BASE
<b>SUBTOTAL - DIRECT COST OF ALTERNATES</b>	<b>10,067,500</b>	<b>7,164,550</b>
<b>PA REQUIRED ALLOWANCES</b>		
SIGNAGE - PA ALLOWANCE	700,000	W / TRADES
UNDERGROUND UTILITIES - PA ALLOWANCE - See note #2	6,200,000	2,000,000
LANDSCAPING - PA ALLOWANCE	500,000	1,500,000
EQUIPMENT, RCS - PA ALLOWANCE	1,200,000	1,200,000
ENTRANCE CANOPY & ROOF TOP SKYLIGHT - PA ALLOW.	400,000	W / TRADES
<b>SUBTOTAL - DIRECT COST OF PA REQUIRED ALLOWANCES</b>	<b>9,000,000</b>	<b>4,700,000</b>
<b>TOTAL - DIRECT COST</b>	<b>58,190,300</b>	<b>51,178,800</b>

PARKING GARAGE GSF 540,000 GSF GSF

NUMBER OF PARKING SPACES 1,552 EACH GSF

Note #1 : The above total indicates direct costs only. This total does not include any indirect costs (i.e. construction contingency, subcontractor bonds, payment and performance bond, general liability insurance, general conditions, fee, etc...). The indirect costs will be added at a later time.

Note #2: The "Underground Utility - PA Allowance" is based on the PANY/NJ estimate. The design team has looked at relocating underground utilities and also removing underground utilities. On November 2, 2005 Jetblue and the PA decided to remove most of the underground utilities from the foundation. For budgeting purposes the PA and Jetblue decided to keep the \$6,200,000 allowance for this removal, but this price is not based drawings, but is only a JetBlue and PA allowance. ARUP developed sketches on the underground utilities and issued them on 9/14/05, but these sketches do not account for complete removals / relocations of underground utilities. TCCO recommends that drawings be issued on the removal and relocation of underground utilities, so that this allowance can be based on real information.

**Turner** Construction Company

November 7, 2005

**JFK Terminal 5 Parking Garage - Conceptual Estimate #5**

Narrative

Estimate

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Narrative

**Estimate #5**

Is based on ARUP sketches given to TCCO on October 25, 2005. This is a (6) six story, 540,000 GSF parking structure with 1,548 parking spaces. The design team requested that this estimate include underground utilities (as documented in qualifications), toll booths, toll plazas, exterior ramps, bridge to LRS, and roadwork. Please see qualifications for list of ARUP documents.

**Turner** Construction Company

November 7, 2005

**JFK Terminal 5 Parking Garage - Conceptual Estimate #5**

**PARKING GARAGE - ESTIMATE #3 - REVISED**

**Turner** Construction Company

November 7, 2005

**JFK Terminal 5 Parking Garage - Conceptual Estimate #5**

**BASE ESTIMATE - PARKING GARAGE**

BUILDING SYSTEM	Current System Totals
HOISTING AND PROTECTION	\$0
EXCAVATIONS	\$1,065,500
PILES	\$4,039,900
FOUNDATIONS	\$3,277,100
PRECAST CONCRETE STRUCTURE	\$16,294,000
STRUCTURAL CONCRETE	\$480,000
UNIT MASONRY	\$250,000
MISCELLANEOUS METALS	\$1,610,000
WATERPROOFING / ROOFING	\$280,500
JOINT SEALERS	\$50,000
FIREPROOFING	\$5,000
DOORS & HARDWARE	\$60,000
ENTRANCE & STOREFRONT / INTERIOR GLAZING	\$1,216,000
ROUGH CARPENTRY / DRYWALL / CEILINGS	\$4,000
PAINTING	\$279,500
SPECIALTIES	\$287,500
VERTICAL TRANSPORTATION	\$1,900,000
PLUMBING	1,400,000
FIRE PROTECTION	0
H.V.A.C.	\$200,000
ELECTRICAL	\$6,423,800
DEMOLITION	In Excavation
<b>TOTAL: DIRECT COST</b>	<b>\$39,122,800</b>

**Turner** Construction Company

November 7, 2005

**JFK Terminal 5 Parking Garage - Conceptual Estimate #5**

**BASE ESTIMATE - PARKING GARAGE**

**Current  
System  
Totals**

**BUILDING SYSTEM**

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construction contingency, subcontractor bonds, payment and performance bond, general liability insurance, general conditions, fee, etc....). The indirect cost



**Turner** Construction Company  
 November 7, 2005  
 JFK Terminal 5 Parking Garage - Conceptual Estimate #5  
 BASE ESTIMATE - PARKING GARAGE

G.S.F.  
 CARS  
 % of Total

Current  
 System  
 Totals

Intermediate  
 Totals

Estimate

Unit  
 Cost

Unit

Quantity

BUILDING SYSTEM

93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

Turner Construction Company  
 November 7, 2005  
 JFK Terminal 5 Parking Garage - Conceptual Estimate #5  
 BASE ESTIMATE - PARKING GARAGE

BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals	G.S.F. CARS	% of Total
#### Subtotal: Roof					\$33,000			
#### Waterproofing								
#### Traffic Topping / Membrane at roof	90,000	SF	2.75	\$247,500				
#### Subtotal: Waterproofing					\$247,500			
#### WATERPROOFING / ROOFING						\$280,500		0.58%
#### JOINT SEALERS								
#### Sealants								
#### Caulking at Doors and Installations	1	ALLOW	50,000.00	\$50,000				
#### Subtotal: JOINT SEALERS					\$50,000	\$50,000		0.10%
#### JOINT SEALERS								
#### FIREPROOFING								
#### Fireproofing	1	ALLOW	5,000.00	\$5,000				
#### Subtotal: FIREPROOFING					\$5,000	\$5,000		0.01%
#### FIREPROOFING								
#### DOORS & HARDWARE								
#### Exterior Doors & Hardware								
#### Parking Garage								
#### HM Doors / Frames/ Hardware								
#### Public Doors								
#### Flush HM w/Vision Panel (3'-0" x 7'-0")	1	ALLOW	60,000.00	\$60,000				
#### Subtotal: Exterior Doors & Hardware					\$60,000	\$60,000		0.12%
#### DOORS & HARDWARE								
#### ENTRANCE & STOREFRONT / INTERIOR GLAZING								
#### Entrances and Storefronts								
#### Curtain wall at elevator shaftway	12,800	SF	95	\$1,216,000				
#### Subtotal:					\$1,216,000	\$1,216,000		2.51%
#### ENTRANCE & STOREFRONT / INTERIOR GLAZING								
#### ROUGH CARPENTRY / DRYWALL / CEILINGS								
#### Doors & Hardware (Installation Only)								
#### Exterior Doors & Hardware								
#### Parking Garage								
#### HM Doors (Install Only)								
#### Public Doors	1	LS	4,000.00	\$4,000				
#### Subtotal: Doors & Hardware (Install Only)					\$4,000			
#### OSHA Safety / Protection								
#### Perimeter Safety Protection	1	LS	44,800.00	See Add Alternate				
#### Temporary Rails @ Stairs	1	Allow	15,000.00	See Add Alternate				
#### Removable Protection @ Elevator Shafts	1	Allow	7,500.00	See Add Alternate				
#### Floor Slab Openings	1	Allow	12,000.00	See Add Alternate				
#### Subtotal: OSHA Safety / Protection					See Add Alternate			
#### ROUGH CARPENTRY / DRYWALL / CEILINGS						\$4,000		0.01%
#### PAINTING								
#### Miscellaneous Painting								
#### Ptd. Railings - stair and roof	720	LF	4.00	\$2,900				
#### Railings at exterior	9,800	LF	4.00	\$39,200				
#### Line Striping	1,678	LOC	65.00	\$109,100				
#### Elevator Pit Ladders	4	EA	75.00	\$300				
#### MEP Color Coding	1	LS	10,000.00	\$10,000				
#### MEP Pipe & Hangers	1	LS	10,000.00	\$10,000				
#### Switchgear and Panelboards	Not Included		Not Included	Not Included				
#### MEP Factory Primed Equip. & Tanks	Not Included		Not Included	Not Included				
#### Miscellaneous Painting	540,000	SF	0.20	\$108,000				
#### Subtotal: Miscellaneous Painting					\$279,500			
#### PAINTING						\$279,500		0.58%
#### SPECIALTIES								
#### Building Identification	540,000	SF	0.50	270,000				
#### Mscl. Specialties	1	ALLOW	15,000.00	15,000				
#### Subtotal: SPECIALTIES					\$285,000			

**Turner** Construction Company  
 November 7, 2005  
**JFK Terminal 5 Parking Garage - Conceptual Estimate #5**  
**BASE ESTIMATE - PARKING GARAGE**

G.S.F.  
 CARS  
 % of Total

Current  
 System  
 Totals

Intermediate  
 Totals

Estimate

Unit  
 Cost

Unit

Quantity

BUILDING SYSTEM

Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals	G.S.F.	CARS	% of Total
1	ALLOW	2,500.00	\$2,500	\$2,500				
Access Doors								
1	ALLOW	2,500.00	\$2,500	\$2,500				
Subtotal: Access Doors								
Parking Control Equipment								
w / Alternate								
Subtotal: Parking Control Equipment								
SPECIALTIES								
VERTICAL TRANSPORTATION								
Elevators								
Parking Garage								
Traction elevators; 6000 lb, 350fpm								
Passenger Elevators - Glass Cabs								
4	EA	475,000.00	\$1,900,000					
80	FT							
6	EA							
Travel Distance								
Stops/Frames - Front								
20Rv, 3 Phase								
Controls - 3x7'								
Single Speed Side Opening Doors								
Cab finishes - Base price includes - \$10K Allow / CAB								
Controller								
Subtotal: Elevators								
VERTICAL TRANSPORTATION								
PLUMBING								
540,000	SF	\$2.50	\$1,350,000					
1	LS	\$50,000.00	\$50,000					
Drainage								
Sanitary and Potable Systems to accommodate employee needs								
Subtotal: Plumbing								
PLUMBING								
FIRE PROTECTION								
540,000	SF							
Drypipe System								
Subtotal: Fire Protection								
FIRE PROTECTION								
H.V.A.C.								
1	LS	\$100,000.00	\$100,000.00					
2	LOC	\$7,000.00	\$14,000.00					
8	LOC	\$5,000.00	\$40,000.00					
4	EA	\$15,000.00	\$60,000.00					
Relocation of underground hot water and chilled water piping at foundations								
Miscellaneous								
Subtotal: H.V.A.C.								
H.V.A.C.								
ELECTRICAL								
200	LF	1,875.00	\$375,000.00					
Incoming Service								
2 x 3kv feeders from existing loop with duct bank - assume 200 LF								
Service & Distribution								
1	LS	1,200,000.00	\$1,200,000.00					
1	LS	800,000.00	\$800,000.00					
Substation, transformer, switchgear, grounding								
Distribution								
Emergency Power System								
1	LS	380,000.00	\$380,000.00					
Generator, Feeders, ATS								
Lighting								
540,000	SF	3.00	\$1,620,000.00					
Exterior fluorescent lighting								
Emergency lighting								
Lighting Controls								
Exterior Lighting								
Convenience Power								
540,000	SF	0.12	\$64,800.00					
Equipment Connections								
Elevators								
4	EA	3,500.00	\$14,000.00					
10	EA	2,500.00	\$25,000.00					
1	LS	450,000.00	\$450,000.00					
540,000	SF	1.25	\$675,000.00					
Telecommunications - Emergency phones								
Fire Alarm System								
Security System								
CCTV								
1	LS	100,000.00	\$100,000.00					
Lightning Protection System								
540,000	SF	0.50	\$270,000.00					
Toll Plaza work								
Miscellaneous Electrical								
1	LS	150,000.00	\$150,000.00					
Subtotal: Electric								
ELECTRICAL								
					\$1,900,000			3.93%
					\$1,400,000			2.85%
					0			0.00%
					\$200,000			0.41%
					\$6,423,800			13.28%

Turner Construction Company  
 November 7, 2005  
 JFK Terminal 5 Parking Garage - Conceptual Estimate #5  
 BASE ESTIMATE - PARKING GARAGE

BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals	G.S.F. CARS % of Total
#### DEMOLITION							
#### Demolition							
#### In Excavation							
#### Subtotal: Demolition					\$0		
#### DEMOLITION							
#### In Excavation							
#### TOTAL: DIRECT COST				\$39,122,800	\$39,122,800	\$39,122,800	80.89%

Note: The above total indicates direct costs only. This total does not include any indirect costs (i.e. construction contingency, subcontractor bonds, payment and performance bond, general liability insurance, general conditions, fee, etc....). The indirect cost

**Turner** Construction Company

November 7, 2005

**JFK Terminal 5 Parking Garage - Conceptual Estimate #5**

**ALTERNATE #1 - TOLL BOOTHS AND CANOPIES**

**Turner** Construction Company

November 7, 2005

**JFK Terminal 5 Parking Garage - Conceptual Estimate #5  
ALTERNATE #1 - TOLL BOOTH CANOPY**

Estimate

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<b>BUILDING SYSTEM</b>		<b>Current System Totals</b>
23	<b>STRUCTURAL STEEL</b>	214,688
24		
25		
34	<b>UNIT MASONRY</b>	\$19,812
35		
45	<b>MISCELLANEOUS METALS</b>	\$129,500
46		
69	<b>WATERPROOFING / ROOFING</b>	\$326,040
70		
81	<b>DOORS &amp; HARDWARE</b>	\$3,100
82		
91	<b>Exterior Wall</b>	\$49,530
92		
110	<b>ROUGH CARPENTRY / DRYWALL / CEILINGS</b>	\$5,620
111		
132	<b>WALL FINISHES</b>	\$22,402
133		
134		
147	<b>SPECIALTIES</b>	\$861,400
148		
149		
163	<b>PLUMBING</b>	33,800
164		
171	<b>FIRE PROTECTION</b>	0
172		
183	<b>H.V.A.C.</b>	\$9,800
184		
197	<b>ELECTRICAL</b>	\$1,725,000
198		
199		
200	<b>TOTAL: DIRECT COST</b>	<b>\$3,400,700</b>
201		
215		
216		

**Note:**

The above total indicates direct costs only. This total does not include any indirect costs (i.e. construction contingency, subcontractor bonds, payment and performance bond, general liability insurance, general conditions, fee, etc....). The indirect costs will be added to this estimate at a later time.

**Turner** Construction Company

November 7, 2005

**JFK Terminal 5 Parking Garage - Conceptual Estimate #5**

**ALTERNATE #1 - TOLL BOOTH CANOPY**

Estimate

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BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
<b>1 STRUCTURAL STEEL</b>						
<b>2</b>						
<b>3 Structural Steel</b>						
<b>4 Entrance Canopy</b>						
5	Columns	6 TONS	3,600.00	21,600.00		
6	Beams	26 TONS	3,600.00	93,600.00		
7	Connections	3 TONS	3,600.00	10,800.00		
8	Roof Deck	3,700 SF	3.75	13,875.00		
<b>9</b>						
<b>10 Exit Canopy</b>						
11	Columns	3 TONS	3,600.00	10,800.00		
12	Beams	13 TONS	3,600.00	46,800.00		
13	Connections	2 TONS	3,600.00	7,200.00		
14	Roof Deck	1,440 SF	3.75	5,400.00		
<b>15</b>						
<b>16 Service Building</b>						
17	Beams	1 TON	3,600.00	3,600.00		
18	Roof Deck	270 SF	3.75	1,012.50		
<b>19</b>						
<b>20</b>						
21	Subtotal - Structural Steel				214,688	
<b>22</b>						
<b>23 STRUCTURAL STEEL</b>						
<b>24</b>						
<b>25</b>						
<b>26 UNIT MASONRY</b>						
<b>27</b>						
<b>28 Masonry</b>						
<b>29</b>						
30	8" CMU @ Service Building	762 SF	26.00	19,812		
<b>31</b>						
32	Subtotal: Interior Masonry Partitions				\$19,812	
<b>33</b>						
<b>34 UNIT MASONRY</b>						
<b>35</b>						
<b>36 MISCELLANEOUS METALS</b>						
<b>37</b>						
38	Bollards @ Toll Booths	50 EA	2,500.00	\$125,000		
39	House Trap - 3' X 3' @ Service Building	1 EA	1,500.00	\$1,500		
40	Lintel @ Service Building	15 LF	200.00	\$3,000		
<b>41</b>						
42	Subtotal: Miscellaneous Iron				\$129,500	
<b>43</b>						
<b>44</b>						
<b>45 MISCELLANEOUS METALS</b>						
<b>46</b>						
<b>47 WATERPROOFING / ROOFING</b>						
<b>48</b>						
<b>49 Roof</b>						
<b>50</b>						
<b>51 Entrance Canopy</b>						
52	Metal Standing Seam Roof					
53	( Allowance - mat'l not spec'd - Assume aluminum)	3,700 SF	35.00	\$129,500		
54	Metal Exterior Ceiling	3,700 SF	26.00	\$96,200		
<b>55</b>						
<b>56 Exit Canopy</b>						
57	Metal Standing Seam Roof					
58	( Allowance - mat'l not spec'd - Assume aluminum)	1,440 SF	35.00	\$50,400		
59	Metal Exterior Ceiling	1,440 SF	26.00	\$37,440		
<b>60</b>						
<b>61 Service Building</b>						
62	Stainless Steel Roof	190 SF	60.00	\$11,400		
63	EPDM Roof	80 SF	13.75	\$1,100		
<b>64</b>						
65	Subtotal - Roof				\$326,040	W / Precast Concrete Structure
<b>66</b>						
<b>67</b>						
<b>68</b>						
<b>69 WATERPROOFING / ROOFING</b>						
<b>70</b>						
<b>71 DOORS &amp; HARDWARE</b>						
<b>72</b>						
<b>73 Exterior Doors &amp; Hardware</b>						
<b>74</b>						
<b>75 Exterior Doors &amp; Hardware @ Service Building</b>						
76	Double Door	1 EA	1,400.00	1,400		
77	Single Door	2 EA	850.00	\$1,700		
<b>78</b>						
79	Subtotal: Exterior Doors & Hardware				\$3,100	
<b>80</b>						
<b>81 DOORS &amp; HARDWARE</b>						
<b>82</b>						
<b>83 Exterior Wall</b>						
<b>84</b>						
<b>85 Metal Panel</b>						
<b>86</b>						
87	Stainless Steel Metal Panel @ Service Building	762 SF	65.00	\$49,530		

**Turner** Construction Company

November 7, 2005

**JFK Terminal 5 Parking Garage - Conceptual Estimate #5**

**ALTERNATE #1 - TOLL BOOTH CANOPY**

Estimate

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BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
88						
89	Subtotal: Metal Panel				\$49,530	
90						
91	Exterior Wall					\$49,530
92						
93	<b>ROUGH CARPENTRY / DRYWALL / CEILINGS</b>					
94						
95	Doors & Hardware (Installation Only)					
96	Exterior Doors & Hardware					
97	Parking Garage					
98						
99	1	LS	4,000.00	\$4,000		
100						
101	Subtotal: Doors & Hardware (Install Only)				\$4,000	
102						
103						
104	Ceiling					
105						
106	270	SF	6.00	\$1,620		
107						
108	Subtotal - Ceiling				\$1,620	
109						
110	<b>ROUGH CARPENTRY / DRYWALL / CEILINGS</b>					
111						\$5,620
112	<b>WALL FINISHES</b>					
113						
114						
115	Miscellaneous Painting					
116						
117	50	EA	75.00	\$3,800		
118	1	LS	4,500.00	\$4,500		
119	1	LS	3,500.00	\$3,500		
120						
121	Subtotal: Miscellaneous Painting				\$11,800	
122						
123						
124						
125	Ceramic Tile					
126						
127	319	SF	18.00	\$5,742		
128	270	SF	18.00	\$4,860		
129						
130	Subtotal - Ceramic Tile				\$10,602	
131						\$22,402
132	<b>WALL FINISHES</b>					
133						
134						
135	<b>SPECIALTIES</b>					
136						
137	Parking Control Equipment					
138						
139	8	EA	100,800.00	\$806,400		
140						
141	Ticket Dispensers -					
142						
143	11	EA	5,000.00	\$55,000		
144						
145	Subtotal: Parking Control Equipment				\$861,400	
146						
147	<b>SPECIALTIES</b>					
148						\$861,400
149						
150	<b>PLUMBING</b>					
151						
152	3	EA	1,500.00	\$4,500		
153	1	EA	1,200.00	\$1,200		
154	1	EA	1,200.00	\$1,200		
155	1	EA	900.00	\$900		
156	300	LF	40.00	\$12,000		
157	100	LF	40.00	\$4,000		
158	1	LS	10,000.00	\$10,000		
159						
160	Subtotal: Plumbing				\$33,800	
161						
162						
163	<b>PLUMBING</b>					
164						\$33,800
165	<b>FIRE PROTECTION</b>					
166						
167	Drypipe System					
168						
169	Subtotal: Fire Protection				\$0	
170						
171	<b>FIRE PROTECTION</b>					
172						0
173	<b>H.V.A.C.</b>					
174						

**Turner** Construction Company

November 7, 2005

**JFK Terminal 5 Parking Garage - Conceptual Estimate #5**

**ALTERNATE #1 - TOLL BOOTH CANOPY**

Estimate

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BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
175 Ductwork @Service Building	250	LBS	10.00	\$2,500.00		
176 Exhaust Fans (toilet and Electric Rooms) @ Service Building	1	LS	3,500.00	\$3,500.00		
177 Heat Pumps in Toll Booths				Included with Prefab Unit		
178 Space Heater (500 W w/ Thermostat)	1	EA	3,800.00	\$3,800.00		
179						
180						
181 Subtotal: H.V.A.C.					\$9,800	
182						
183 H.V.A.C.						\$9,800
184						
185 ELECTRICAL						
186						
187						
188 Fire Alarm System	1	LS	10,000.00	\$10,000.00		
189 Security System						
190 CCTV - 12 Cameras	1	LS	25,000.00	\$25,000.00		
191 Toll Plaza work	1	LS	350,000.00	\$350,000.00		
192 Miscellaneous Electrical	1	LS	105,000.00	\$105,000.00		
193 Revenue Control - Entrance and Exit	1	LS	1,235,000.00	\$1,235,000.00		
194						
195						
196 Subtotal: Electric					1,725,000	
197						
198 ELECTRICAL						\$1,725,000
199						
200						
201 TOTAL: DIRECT COST				\$3,400,700	\$3,400,700	\$3,400,700
202						
216						

Note: The above total indicates direct costs only. This total does not include any indirect costs (i.e. construction contingency, subcontractor bonds, payment and performance bond, general liability insurance, general conditions, fee, etc....). The indirect costs will be added to this estimate at a later time.

**Turner** Construction Company

November 7, 2005

**JFK Terminal 5 Parking Garage - Conceptual Estimate #5**

**ALTERNATE #2 - ROADWAYS**

**Turner** Construction Company

November 7, 2005

**JFK Terminal 5 Parking Garage - Conceptual Estimate #5**

**ALTERNATE #2 - ROADWAYS**

<b>BUILDING SYSTEM</b>	<b>Current System Totals</b>
<b>DEMOLITION</b>	<b>\$1,243,000</b>
<b>SITE WORK</b>	<b>\$2,165,000</b>
<b>TOTAL: DIRECT COST</b>	<b>\$3,408,000</b>

**Note:** The above total indicates direct costs only. This total does not include any indirect costs (i.e. construction contingency, subcontractor bonds, payment and performance bond, general liability insurance, general conditions, fee, etc....). The indirect costs will be added to this estimate at a later time.

Turner Construction Company  
 November 7, 2005  
 JFK Terminal 5 Parking Garage - Conceptual Estimate #5  
 ALTERNATE #2 - ROADWAYS

BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1 DEMOLITION						
2						
3 Site Preparation						
4 Remove existing concrete pavements for new roadways	124,300	SF	10.00	\$1,243,000		
5						
6						
7 Subtotal: Site Preparation					\$1,243,000	
8						
9 DEMOLITION						\$1,243,000
10						
11 SITE WORK						
12						
13 Pavements (at-grade)						
14						
15 SOG @ Toll Plaza - Entrance and Exit	5,088	SF	22.00	\$112,000		
16 Earth cut required for new roadway elevations	2,200	CY	50.00	\$110,000		
17 Arrivals level Roadways; 4" with 4" base and 6" subbase; incl. non moun	62,000	SF	11.00	\$682,000		
18 Non-mountable curb	4,100	LF	22.00	\$90,000		
19 Raised Median with curb	5,800	SF	10.00	\$58,000		
20 CIP concrete retaining wall; 3' - 7'high; incl. spread footing - Allowance	450	LF	350.00	\$158,000		
21 Roadway Lighting (40 poles @ 150' spacing and 2" conduit)	2,050	LF	200.00	\$410,000		
22 Roadway Drainage (no pipe sizes given) - Allowance	2,050	LF	100.00	\$205,000		
23						
24						
25 Subtotal Pavements At Grade					\$1,825,000	
26						
27						
28 Overhead Signs/Guardrail						
29						
30 40" span type	2	EA	150,000.00	\$300,000		
31 Guardrail - Allowance	500	LF	75.00	\$38,000		
32 Concrete foundations	4	CY	550.00	\$2,000		
33						
34 Subtotal OHD signs/guardrail					\$340,000	
35						
36 Maintenance & Protection of Traffic (MPT)						
37						
38 Impact attenuators - Allowance	2	EA	40,000.00	See Add Alternate		
39 Roadway Striping	2,050	LF	3.00	See Add Alternate		
40 VMS Structures - Allowance	1	EA	25,000.00	See Add Alternate		
41 Construction signs	10	EA	500.00	See Add Alternate		
42 Concrete barrier (approx 500lf/3phases)	200	LF	10.00	See Add Alternate		
43 Arrowboards (2ea/3 phases)	2	EA	10,000.00	See Add Alternate		
44						
45 Subtotal Maintenance & Protection of Traffic					See Add Alternate	
46						
47 SITE WORK						\$2,165,000
48						
49						
50 TOTAL: DIRECT COST					\$3,408,000	\$3,408,000
51						\$3,408,000

**Turner** Construction Company

November 7, 2005

**JFK Terminal 5 Parking Garage - Conceptual Estimate #5**

**ALTERNATE #3 - BRIDGE TO AIR TRAIN**

**Turner** Construction Company

November 7, 2005

**JFK Terminal 5 Parking Garage - Conceptual Estimate #5  
ALTERNATE #3 - BRIDGE TO AIRTRAIN**

AREA

BUILDING SYSTEM	Current System Totals
STRUCTURAL FRAME	\$129,935
SPRAY ON FIREPROOFING	\$5,500
EXPANSION JOINTS	\$7,500
ROOFING AND WATERPROOFING	\$12,000
EXTERIOR WALL	\$89,000
GLAZING	\$30,000
PARTITIONS	\$20,000
MISCELLANEOUS METALS	\$4,000
FLOOR FINISHES	\$3,000
WALL FINISHES	\$4,500
SIGNAGE	\$4,000
PLUMBING	\$11,000
FIRE PROTECTION	Not Included
H.V.A.C.	Not Included
LIGHTING	\$15,000
FIRE ALARM SYSTEM	\$5,500

**Turner** Construction Company

November 7, 2005

**JFK Terminal 5 Parking Garage - Conceptual Estimate #5**

**ALTERNATE #3 - BRIDGE TO AIRTRAIN**

AREA

**BUILDING SYSTEM**

---

**Current  
System  
Totals**

**SECURITY SYSTEM**

**\$5,000**

#

**TOTAL: DIRECT COST**

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**\$345,900**

The above total indicates direct costs only. This total does not include any indirect costs (i.e. construction contingency, subcontractor bonds, payment and performance bond, general liability insurance, general conditions, fee, etc....). The indirect costs will be added to this estimate at a later time.

AREA

BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
1 STRUCTURAL FRAME						
2						
3 Steel Superstructure						
4						
5 Steel At Bridge Above Closed Roadway						
6 Structural steel framing - girders & truss members	14	Tons	3,600.00	50,400		
7 Structural steel framing - columns	9	Tons	3,600.00	32,400		
8 Structural steel framing connections	2	Tons	3,600.00	7,200		
9 Metal floor deck	450	SF	3.75	1,688		
10 Metal Roof Deck	450	SF	3.75	1,688		
11						
12 Set bridge 12 AM to 5 AM - 1 Night - Air Train Closure						
13 Steel workers	80	DT	220.00	17,600		
14 Crane with operators	1	EA	10,000.00	10,000		
15 Flag Men	64	OT	140.00	8,960		
16				0		
17						
18 Subtotal - Steel at Bridge					\$129,935	
19						
20 STRUCTURAL FRAME						\$129,935
21						
22 SPRAY ON FIREPROOFING						
23						
24 Spray Fireproofing on structural steel - truss members	1	LS	5,500.00	5,500		
25						
26 Subtotal: Spray On Fireproofing					\$5,500	
27						
28 SPRAY ON FIREPROOFING						\$5,500
29						
30 EXPANSION JOINTS						
31						
32 Expansion Joints	50	LF	150.00	\$7,500		
33						
34 Subtotal: Expansion Joints					\$7,500	
35						
36 EXPANSION JOINTS						\$7,500
37						
38 ROOFING AND WATERPROOFING						
39 Rough Carpentry						
40						
41 Allowance for rough carpentry	450	SF	1.50	\$1,000		
42						
43 Subtotal: Rough Carpentry					\$1,000	
44						
45 Roof						
46						
47 EPDM roofing and insulation	450	SF	13.00	\$6,000		
48 Parapet flashing and lining	125	LF	40.00	\$5,000		
49						
50 Subtotal: Roof					\$11,000	
51						
52						
53						
54 ROOFING AND WATERPROOFING						\$12,000
55						
56 EXTERIOR WALL						
57						
58 Walls						
59						
60 Aluminum Metal Panel (M7) at bridge above Roadway	700.00	SF	55.00	\$39,000		
61 Metal Panel at underside of bridge	450.00	SF	55.00	\$25,000		
62 Repair existing Air Train Station Façade - Allowance	1.00	LS	25,000.00	\$25,000		
63						
64						
65 Subtotal: Walls					\$89,000	
66						
67						
68 EXTERIOR WALL						\$89,000
69						
70						
71 GLAZING						
72						
73 Glass Doors w/ sidelight	4	EA	7,500.00	\$30,000		
74						
75 Subtotal - Glazing					\$30,000	
76						
77 GLAZING						\$30,000
78						
79						
80 PARTITIONS						

**Turner** Construction Company

November 7, 2005

JFK Terminal 5 Parking Garage - Conceptual Estimate #5  
 ALTERNATE #3 - BRIDGE TO AIRTRAIN

AREA

BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
81						
82	500	SF	16.00	\$8,000		
83	1	LS	8,000.00	\$8,000		
84						
85					\$16,000	
86						
87						
88						
89	500	SF	7.00	\$4,000		
90						
91					\$4,000	
92						
93						
94						\$20,000
95						
96						
97	50	LF	80.00	4,000	\$4,000	
98						
99						\$4,000
100						
101						
102						
103	500	SF	6.00	\$3,000		
104						
105					\$3,000	
106						\$3,000
107						
108						
109						
110						
111	1	LS	4,500.00	\$4,500		
112						
113					\$4,500	
114						
115						\$4,500
116						
117						
118						
119	1	LS	4,000.00	\$4,000		
120						
121					\$4,000	
122						
123						\$4,000
124						
125						
126						
127						
128						
129				Not Included		
130						
131					\$0	
132						
133						
134						
135						
136	1	EA	4,500.00	\$5,000		
137			Not Included			
138			Not Included			
139			Not Included			
140						
141	100	LF	60.00	\$6,000		
142						
143					\$11,000	
144						
145						
146						
147						
148						\$11,000
149						
150						
151						
152			Not Included			
153						
154						Not Included
155						
156						

Turner Construction Company  
 November 7, 2005  
 JFK Terminal 5 Parking Garage - Conceptual Estimate #5  
 ALTERNATE #3 - BRIDGE TO AIRTRAIN

AREA

BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
157 H.V.A.C.						Not Included
158						
159						
160						
161 LIGHTING						
162						
163 Allowance for Lighting Not Shown						
164	1	LS	10,000.00	\$10,000		
165						
166 Exit Lights	1	LS	5,000.00	\$5,000		
167						
168 Subtotal: Lighting					\$15,000	
169						
170 Lighting Controls						
171						
172 Subtotal: Lighting Controls					\$0	
173						
174 LIGHTING						\$15,000
175						
176 FIRE ALARM SYSTEM						
177	1	LS	5,500.00	\$5,500		
178 Subtotal: Fire Alarm System					\$5,500	
179						
180 FIRE ALARM SYSTEM						\$5,500
181						
182						
183 SECURITY SYSTEM						
184 CCTV & Access Control	1	LS	4,500.00	\$5,000		
185					5000	
186 SECURITY SYSTEM						\$5,000
187						
188 #						
189						
190						
191						
192						
193 TOTAL: DIRECT COST				\$345,900	\$345,900	\$345,900
194						
208						
209						

Note: The above total indicates direct costs only. This total does not include any indirect costs (i.e. construction contingency, subcontractor bonds, payment and performance bond, general liability insurance, general conditions, fee, etc...). The indirect costs will be added to this estimate at a later time.

**Turner** Construction Company

November 7, 2005

**JFK Terminal 5 Parking Garage - Conceptual Estimate #5**

**ALTERNATE #4 - EXTERIOR RAMPS RAMPS**

**Turner** Construction Company

November 7, 2005

**JFK Terminal 5 Parking Garage - Conceptual Estimate #5**

**ALTERNATE #4 - EXTERIOR RAMPS**

Current  
System  
Totals

**BUILDING SYSTEM**

---

HOISTING AND PROTECTION	\$0
EXCAVATIONS	\$79,900
PILES	\$875,300
FOUNDATIONS	\$143,300
PRECAST CONCRETE STRUCTURE	\$1,633,500
STRUCTURAL CONCRETE	\$25,000
UNIT MASONRY	\$0
MISCELLANEOUS METALS	\$190,000
WATERPROOFING / ROOFING	\$0
JOINT SEALERS	\$5,000
FIREPROOFING	\$5,000
DOORS & HARDWARE	\$0
ENTRANCE & STOREFRONT / INTERIOR GLAZING	\$0
ROUGH CARPENTRY / DRYWALL / CEILINGS	\$0
PAINTING	\$18,800
SPECIALTIES	\$48,000
VERTICAL TRANSPORTATION	\$0
PLUMBING	107,500
FIRE PROTECTION	83,900
H.V.A.C.	\$0

**Turner** Construction Company

November 7, 2005

**JFK Terminal 5 Parking Garage - Conceptual Estimate #5**

**ALTERNATE #4 - EXTERIOR RAMPS**

	Current System Totals
<b>BUILDING SYSTEM</b>	
<hr/>	
ELECTRICAL	\$297,500
<b>DEMOLITION</b>	
Demolition	
<hr/>	
TOTAL: DIRECT COST	\$3,512,700

**Turner** Construction Company

November 7, 2005

**JFK Terminal 5 Parking Garage - Conceptual Estimate #5**

**ALTERNATE #4 - EXTERIOR RAMPS**

BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
<b>1 HOISTING AND PROTECTION</b>						
<b>2 Hoisting</b>						
<b>3 Parking Garage</b>						
4				Not Included		
5				Not Included		
6				Not Included		
7				Not Included		
8				Not Included		
9				Not Included		
10				Not Included		
11				Not Included		
12				Not Included		
13				Not Included		
14				Not Included		
15				Not Included		
16				Not Included		
17				Not Included		
18				Not Included		
19				Not Included		
20				Not Included		
21						
22						\$0
23						
<b>24 Protection</b>						
25						
26	0	LF	150.00		\$0	
27					Included	
28					Included	
29						
30						\$0
31						
<b>32 HOISTING AND PROTECTION</b>						
<b>33</b>						
<b>34 EXCAVATIONS</b>						
<b>35</b>						
<b>36 Site Preparation</b>						
37	8,700	SF	1.25	\$10,900		
38	0	LS	10,000.00	\$0		
39	60	LF	6.00	\$400		
40	0	LS	5,000.00	\$0		
41						
42						\$11,300
43						
<b>44 Site Fence</b>						
45	80	LF	\$90	See Add Alternate		
46	0	PR	\$10,000	\$0		
47						
48						See Add Alternate
49						
<b>50 Earthwork</b>						
51	0	Crew Days	1,500.00	\$0		
52	0	LS	10,000.00	\$0		
53	0	LS	5,000.00	\$0		
54						
55	100	CY	60.00	\$6,000		
56	25	CY	75.00	\$1,900		
57						
58	644	CY	60.00	\$38,700		
59	81	CY	75.00	\$6,000		
60	100	LF	60.00	\$6,000		
61	1	LS	10,000.00	\$10,000		
62						
63						\$68,600
64						
<b>65 Pits</b>						
66	0	LOC	10,000.00	\$0		W / Precast Concrete Structure
67						
68						
69						\$0
70						
71						
<b>72 EXCAVATIONS</b>						
<b>73</b>						
<b>74 PILES</b>						
<b>75</b>						
76						
77	11,700	LF	60.00	\$702,000		
78	433	CY	400.00	\$173,300		
79						
80						
81	0	LS	25,000.00	\$0		
82						
83						
84						
85	0	LS	20,000.00	\$0		

Turner Construction Company  
 November 7, 2005  
 JFK Terminal 5 Parking Garage - Conceptual Estimate #5  
 ALTERNATE #4 - EXTERIOR RAMPS

BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
86 Layout & Resurvey	Included above		Included	Included above		
87 Splice For Piles	Included above			Included above		
88 Allowance for Underground Obstructions	0	LS	80,000.00	\$0		
89						
90 Subtotal: Piles					\$875,300	
91						
92 PILES						\$875,300
93						
94 FOUNDATIONS						
95						
96 Foundations						
98 Pile Caps	75	CY	1,050.00	\$78,800		
99 Reinforcing Steel & Dowels For Pile Caps	Included above		Included above	Included above		
100						
101 Subtotal: Foundations					\$78,800	
102						
103 Pits						
104 Elevator Pits	0	Each	10,000.00	\$0		
105 Sump Pits	0	Each	Included			
106 Mechanical Pits	Not Included	Each	Not Included	Not Included		
107						
108 Subtotal: Pits					\$0	
109						
110 Slab-On-Grade						
111 8" S.O.G. over Tie Beams (see above)	8,600	SF	22.00	NOT INCLUDED		
112 Reinforcing At Slab	Included above	LBS	Included above	Included above		
113 Reinforced Wire Mesh	Included above		Included above	Included above		
114 6" Gravel Base	Included above		Included above	Included above		
115 Crane Pad and hoist pads	0	LS	20,000.00	\$0		
116						
117 Subtotal: Slab-On-Grade					\$0	
118						
119 Waterproofing						
120 Pit walls / slabs	0	EA	3,000.00	\$0		
121 Slab waterproofing	8,600	SF	5.00	NOT INCLUDED		
122 Membrane / Sealer	43,000	SF	1.50	\$64,500		
123						
124 Subtotal: Waterproofing					\$64,500	
125						
126 FOUNDATIONS						\$143,300
127						
128 PRECAST CONCRETE STRUCTURE						
129						
130 Furnish and Install all Precast Parking Structure Components	43,000	GSF	36.00	\$1,548,000		
131 Columns, Ramps	Included			Included		
132 Stairs	Included			Included		
133 Exterior façade - rustication, pigments	2,250	GSF	38.00	\$85,500		
134 Prelopped Double Tees, Inverted Tee Girders	Included			Included		
135						
136 Subtotal: Precast Concrete Structure					\$1,633,500	
137						
138 PRECAST CONCRETE STRUCTURE						\$1,633,500
139						
140 STRUCTURAL CONCRETE						
141						
142 Cast In Place Concrete						
143						
144 Provide pads and curbs	5	LEVELS	5,000.00	\$25,000		
145						
146 Subtotal: Cast In Place Concrete					\$25,000	
147						
148 STRUCTURAL CONCRETE						\$25,000
149						
150 UNIT MASONRY						
151						
152 Interior Masonry Partitions						
153 Parking Garage						
154 CMU partitions at Elevator Machine rooms, MEP rooms	0	LOCS	60,000.00	0		
155 Stair bulkheads	0	LOCS	15,000.00	0		
156 Employee restrooms	0	LOCS	20,000.00	0		
157						
158 Subtotal: Interior Masonry Partitions					\$0	
159						
160 UNIT MASONRY						\$0
161						
162 MISCELLANEOUS METALS						
163						
164 Stair railings inside	0	LF	100.00	\$0		
165 Stair railings outside	0	LF	50.00	\$0		
166 Misc. ladders	0	LS	2,500.00	\$0		

Turner Construction Company  
 November 7, 2005  
 JFK Terminal 5 Parking Garage - Conceptual Estimate #5  
 ALTERNATE #4 - EXTERIOR RAMPS

BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
167 Sill angles	0	FLRS	1,600.00	\$0		
168 Smoke hole grating	0	EA	1,000.00	\$0		
169 Miscellaneous items	0	SF	1.00	\$0		
170 Railing at structure exterior	1,900	LF	100.00	\$190,000		
171 Misc/ gratings	0	LS	10,000.00	\$0		
172						
173 Subtotal: Miscellaneous Iron					\$190,000	
174						
175						
176 MISCELLANEOUS METALS						\$190,000
177						
178 WATERPROOFING / ROOFING						
179						
180 Roof						
181 Parking Garage at Stair towers						
182 2 Ply Modified Bituminous Membrane	0	SF	25.00	\$0		
183 Premium for flashings at steel supports and mech.	0	LS	3,000.00	\$0		
184						
185 Subtotal: Roof					\$0	
186						
187 Waterproofing						
188						
189 Traffic Topping / Membrane at roof	0	SF	2.75	\$0		
190						
191 Subtotal: Waterproofing					\$0	
192						
193 WATERPROOFING / ROOFING						\$0
194						
195 JOINT SEALERS						
196						
197 Sealants						
198 Misc. caulking	1	ALLOW	5,000.00	\$5,000		
199						
200					\$5,000	
201 JOINT SEALERS						\$5,000
202						
203 FIREPROOFING						
204						
205 Fireproofing	1	ALLOW	5,000.00	\$5,000		
206						
207					\$5,000	
208 FIREPROOFING						\$5,000
209						
210 DOORS & HARDWARE						
211						
212 Exterior Doors & Hardware						
213 Parking Garage						
214 HM Doors / Frames/ Hardware						
215 Public Doors						
216 Flush HM w/Vision Panel (3'-0" x 7'-0")	0	ALLOW	20,000.00	\$0		
217						
218 Subtotal: Exterior Doors & Hardware					\$0	
219						
220 DOORS & HARDWARE						\$0
221						
222 ENTRANCE & STOREFRONT / INTERIOR GLAZING						
223						
224 Entrances and Storefronts						
225						
226 Curtain wall at elevator shaftway	0	SF	95	\$0		
227						
228 Subtotal:					\$0	
229						
230 ENTRANCE & STOREFRONT / INTERIOR GLAZING						\$0
231						
232 ROUGH CARPENTRY / DRYWALL / CEILINGS						
233						
234 Doors & Hardware (Installation Only)						
235						
236 Exterior Doors & Hardware						
237 Parking Garage						
238 HM Doors (Install Only)						
239 Public Doors	0	LS	4,000.00	\$0		
240						
241 Subtotal: Doors & Hardware (Install Only)					\$0	
242						
243 OSHA Safety / Protection						
244 Perimeter Safety Protection	1	LS	5,000.00	See Add Alternate		
245 Temporary Rails @ Stairs	0	Allow	15,000.00	See Add Alternate		
246 Removable Protection @ Elevator Shafts	0	Allow	7,500.00	See Add Alternate		
247 Floor Slab Openings	1	Allow	5,000.00	See Add Alternate		
248						
249 Subtotal: OSHA Safety / Protection					See Add Alternate	
250						
251						
252 ROUGH CARPENTRY / DRYWALL / CEILINGS						\$0
253						

Turner Construction Company  
 November 7, 2005  
 JFK Terminal 5 Parking Garage - Conceptual Estimate #5  
 ALTERNATE #4 - EXTERIOR RAMPS

BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
<b>254 PAINTING</b>						
255						
256	Miscellaneous Painting					
257	0	LF	4.00	\$0		
258	800	LF	4.00	\$3,200		
259	.1	LS	2,000.00	\$2,000		
260	0	EA	75.00	\$0		
261	1	LS	2,500.00	\$2,500		
262	1	LS	2,500.00	\$2,500		
263	0		Not Included	Not Included		
264	0		Not Included	Not Included		
265	43,000	SF	0.20	\$8,600		
266						
267	Subtotal: Miscellaneous Painting				\$18,800	
268						
269	<b>PAINTING</b>					
270						\$18,800
271	<b>SPECIALTIES</b>					
272						
273	43,000	SF	1.00	43,000		
274	1	ALLOW	5,000.00	5,000		
275						
276	Subtotal: SPECIALTIES				\$48,000	
277						
278						
279	Access Doors					
280	0	ALLOW	2,500.00	\$0		
281						
282	Subtotal: Access Doors				\$0	
283						
284	Parking Control Equipment					
285	0	ALLOW	300,000.00	0		
286						
287	Subtotal: Parking Control Equipment				\$0	
288						
289	<b>SPECIALTIES</b>					
290						\$48,000
291	<b>VERTICAL TRANSPORTATION</b>					
292						
293	Elevators					
294	Parking Garage					
295	Traction elevators; 6000 lb, 350fpm					
296	Passenger Elevators					
297	0	EA	190,000.00	\$0		
298	0	FT	-	Included		
299	0	EA	-	Included		
300	Included		Included	Included		
301	Included		Included	Included		
302	Included		Included	Included		
303	0	ALLOW	16,000.00	\$0		
304	Included	EA	-	Included		
305						
306	Subtotal: Elevators				\$0	
307						
308	<b>VERTICAL TRANSPORTATION</b>					
309						\$0
310	<b>PLUMBING</b>					
311						
312	43,000	SF	\$2.50	\$107,500		
313	0	LS	\$50,000.00	\$0		
314						
315	Subtotal: Plumbing				\$107,500	
316						
317	<b>PLUMBING</b>					
318						107,500
319						
320	<b>FIRE PROTECTION</b>					
321						
322	43,000	SF	\$1.95	\$83,900		
323						
324	Subtotal: Fire Protection				\$83,900	
325						
326	<b>FIRE PROTECTION</b>					
327						83,900
328	<b>H.V.A.C.</b>					
329						
330	0	LS	\$100,000.00	\$0.00		
331	0	LOC	\$7,000.00	\$0.00		
332	0	LOC	\$5,000.00	\$0.00		
333	0	EA	\$15,000.00	\$0.00		
334	0			excluded		
335						
336	Subtotal: H.V.A.C.				\$0	
337						
338	<b>H.V.A.C.</b>					
339						\$0

Turner Construction Company

November 7, 2005

JFK Terminal 5 Parking Garage - Conceptual Estimate #5

ALTERNATE #4 - EXTERIOR RAMPS

BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
340 ELECTRICAL						
341						
342						
343 Incoming Service						
344 2 x 5Kv feeders from existing loop with duct bank - assume 200 LF	0	LF	1,875.00	\$0.00		
345 Service & Distribution						
346 Substation, transformer, switchgear, grounding	0	LS	1,200,000.00	\$0.00		
347 Distribution	1	LS	10,000.00	\$10,000.00		
348 Emergency Power System						
349 Generator, Feeders, ATS	1	LS	15,000.00	\$15,000.00		
350 Lighting						
351 Exterior fluorescent lighting	43,000	SF	3.00	\$129,000.00		
352 Emergency lighting	1	LS	2,500.00	\$2,500.00		
353 Lighting Controls	1	LS	2,500.00	\$2,500.00		
354 Exterior Lighting	1	LS	2,500.00	\$2,500.00		
355 Convenience Power	43,000	SF	0.25	\$10,750.00		
356 Equipment Connections						
357 Elevators	0	EA	3,500.00	\$0.00		
358 HVAC	0	EA	2,500.00	\$0.00		
359 Telecommunications - Emergency phones	0	LS	70,000.00	\$0.00		
360 Fire Alarm System	43,000	SF	1.25	\$53,750.00		
361 Security System						
362 CCTV	1	LS	25,000.00	\$25,000.00		
363 Lightning Protection System	43,000	SF	0.50	\$21,500.00		
364 Toll Plaza work	0	LS	300,000.00	\$0.00		
365 Miscellaneous Electrical	1	LS	25,000.00	\$25,000.00		
366						
367 Subtotal: Electric					297,500	
368						
369 ELECTRICAL						\$297,500
370						
371 DEMOLITION						
372 Demolition						
373						
374 Subtotal: Demolition		In Excavation			\$0	
375						
376 DEMOLITION						In Excavation
377						
378 TOTAL: DIRECT COST				\$3,512,700	\$3,512,700	\$3,512,700
379						

Turner Construction Company  
November 7, 2005  
JFK Terminal 5 Parking Garage - Conceptual Estimate #5  
ALTERNATE - INCIDENTAL CHANGES

BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
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## ALTERNATE - INCIDENTAL CHANGES

Turner Construction Company  
November 7, 2005

JFK Terminal 5 Parking Garage - Conceptual Estimate #5  
ALTERNATE - RELATED WORK

BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
<b>BASE PARKING GARAGE</b>						
<b>1 HOISTING AND PROTECTION</b>						
2 Hoisting						
3 Parking Garage						
4 Dual Cage Combination Personnel Hoist With 6000 Pound Capacity	Not Included			Not Included		
5 Base Mobilization	Not Included			Not Included		
6 Erect & Dismantle	Not Included			Not Included		
7 Rental	Not Included			Not Included		
8 Serve 9 Stops	Not Included			Not Included		
9 Standard Ties To Spandrel Beam	Not Included			Not Included		
10 Outside Double Doors	Not Included			Not Included		
11 Loading Dock W/ Overhead Protection & Ramp	Not Included			Not Included		
12 Base Fence Enclosure Around Hoist	Not Included			Not Included		
13 Engineered Drawings & Building Department Permits For Personnel	Not Included			Not Included		
14 Maintenance	Not Included			Not Included		
15 Jumps	Not Included			Not Included		
16 Electrical Transformer	Not Included			Not Included		
17 Electrical Hook Ups	Not Included			Not Included		
18 Base Concrete Pads	Not Included			Not Included		
19 Hoist Labor	Not Included			Not Included		
20 Operating Engineer	Not Included			Not Included		
21						
22 Subtotal: Hoisting					\$0	
23						
24 Protection						
25						
26 Sidewalk Bridge, out riggers at Air Train exposure	1,120	LF	150.00	\$168,000	Included	
27 Lighting					Included	
28 Maintenance						
29						
30 Subtotal: Protection					\$168,000	
31						
32 HOISTING AND PROTECTION						\$168,000
1 OSHA Safety / Protection						
2 Perimeter Safety Protection	1	LS	44,800.00	\$45,000		
3 Temporary Rails @ Stairs	1	Allow	15,000.00	\$15,000		
4 Removable Protection @ Elevator Shafts	1	Allow	7,500.00	\$8,000		
5 Floor Slab Openings	1	Allow	12,000.00	\$12,000		
6						
7 Subtotal: OSHA Safety / Protection					80,000	
OSHA Safety / Protection						80,000
<b>ALTERNATE - ROADWAYS</b>						
1 Maintenance & Protection of Traffic (MPT)						
2						
3 Impact attenuators - Allowance	2	EA	40,000.00	\$80,000		
4 Roadway Striping	2,050	LF	3.00	\$6,000		
5 VMS Structures - Allowance	1	EA	25,000.00	\$25,000		
6 Construction signs	10	EA	500.00	\$5,000		
7 Concrete barrier (approx 500lf/3phases)	200	LF	10.00	\$2,000		
8 Arrowboards (2ea/3 phases)	2	EA	10,000.00	\$20,000		
9						
10 Subtotal Maintenance & Protection of Traffic					\$138,000	
MAINTENANCE & PROTECTION						138,000
<b>ALTERNATE - RAMPS</b>						
44 Site Fence						
45 Site Fence - Chain Link With Mesh Screen	80	LF	\$90	\$7,200		
46 Gates	0	PR	\$10,000	\$0		
47						
48 Subtotal: Site Fence					\$7,200	
243 OSHA Safety / Protection						
244 Perimeter Safety Protection	1	LS	5,000.00	\$5,000		
245 Temporary Rails @ Stairs	0	Allow	15,000.00	\$0		
246 Removable Protection @ Elevator Shafts	0	Allow	7,500.00	\$0		

Turner Construction Company  
 November 7, 2005

JFK Terminal 5 Parking Garage - Conceptual Estimate #5  
 ALTERNATE - RELATED WORK

BUILDING SYSTEM		Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
247	Floor Slab Openings	1	Allow	5,000.00	\$5,000		
248							
249	Subtotal: OSHA Safety / Protection					\$10,000	
ALTERNATE RAMPS							17,200
378	TOTAL: DIRECT COST				\$403,200	\$403,200	\$403,200

**Turner** Construction Company

November 7, 2005

**JFK Terminal 5 Parking Garage - Conceptual Estimate #5**  
**ALTERNATE - DEDUCT SOG**

BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
<u>BASE PARKING GARAGE</u>						
1 Slab-On-Grade						
2 8" S.O.G. over Tie Beams (see above)	(85,000)	SF	22.00	(\$1,870,000)		
3 Reinforcing At Slab	Included above	LBS	Included above	Included above		
4 Reinforced Wire Mesh	Included above		Included above	Included above		
5 6" Gravel Base	Included above		Included above	Included above		
6						
7 Subtotal: Slab-On-Grade					<u>(\$1,870,000)</u>	
ADD ASPHALT	85,000	SF	\$ 10.20	\$ 867,000.00		
Subtotal - Asphalt					867,000	
378 TOTAL: DIRECT COST				<u>(\$1,003,000)</u>	<u>(\$1,003,000)</u>	<u>(\$1,003,000)</u>

**Turner** Construction Company  
 November 7, 2005  
 JFK Terminal 5 Parking Garage - Conceptual Estimate #5  
 ALTERNATE - ADD METAL PANEL

BUILDING SYSTEM	Quantity	Unit	Unit Cost	Estimate	Intermediate Totals	Current System Totals
<b>BASE PARKING GARAGE</b>						
1 Extenor façade - rustication, pigments	(38,000)	GSF	38.00	(\$1,444,000)		
6						
7 Subtotal: Exterlor Façade					(\$1,444,000)	
Add Metal Screen Wall	38,000	SF	\$ 60.00	\$ 2,280,000.00		
F/I Structural Supports for Metal Screen Wall	38,000	SF	\$ 12.00	\$ 456,000.00		
Traffic Guard Rail	1	LS	\$ 500,000.00	\$ 500,000.00		
Subtotal - Metal Panel					3,236,000	
378 TOTAL: DIRECT COST				\$1,792,000	\$1,792,000	\$1,792,000

Assumptions and Clarifications

General

1. This estimate assumes the project is Tax Exempt.
2. This estimate includes a construction contingency that is to be readily available for Turner's use to provide reimbursement for costs and expenses, including costs that are not otherwise reimbursable as Cost of the Work (i.e.: for costs of overtime, acceleration, corrective work, claims, etc.). It should be further noted that this contingency is a construction contingency and not to be used for scope changes. The construction contingency will not include staff cost overruns in the General Conditions.
3. This estimate is based on the Owner providing all risk/builder's risk insurance, covering the interests of the Owner, Turner and the subcontractors, this policy will incorporate a waiver of subrogation unless negligence is proven. Costs for deductibles are not included in the GMP.
4. Controlled inspections are assumed to be by the Owner. Costs for these inspections are not included in the estimate.
5. The scope of work included in the estimate is based solely on the document list located below, as issued by ARUP, received on September 16, 2005. Any changes from subsequent city or other agency approvals (Port Authority) are not included.
6. Allowances as defined in the estimate include all costs associated with a particular item, including furnishing material, delivery, handling, installation costs, bond, insurance and associated subcontractor mark-ups. Turner's General Conditions costs are included in the estimate up to the amount of the allowance. Costs for required work beyond the amount of the allowance shall increase or decrease the estimate by that amount.
7. This estimate does not include fees for temporary utility services.
8. Relocation and coordination with existing underground utilities is included only to the extent presented at the September 16, 2005 meeting with ARUP and JetBlue. The utility work for this project is included only to the extent indicated on the (10) ten sketches listed on the below referenced document list.
9. This estimate assumes that all filing fees are by the Owner.
10. This estimate assumes that a CCIP program will be used. The costs associated with standard general liability insurance are not covered with the cost included in the estimate and would be an increase of 12.5% to the estimate.
11. This estimate includes escalation up to the 4<sup>th</sup> Quarter of 2005.
12. This estimate does not include the cost of hiring a monitoring consultant to perform preconstruction survey of existing condition or the cost of monitoring all existing buildings during the period of driving piles.
13. This estimate does not include hazardous material removal.
14. Landscaping is not included in this estimate.
15. This estimate assumes that a precast knee wall at the floor perimeter of the façade will be sufficient fall protection and that a handrail will not be necessary.
16. We have assumed an OT allowance of \$37,000 for the bridge connection between the LRS and the parking garage. Since no drawings have been provided on the LRS this is a not to exceed allowance.
17. The ticket dispenser and exit gates are allowances. Not specific model numbers or manufacturers have been provided in the documents.
18. All underground utilities will be performed on straight time.

# Turner Aviation

Conceptual Estimate for Parking Garage  
JFK Airport New York, New York

November 7, 2005  
ARUP Conceptual Sketches

## Assumptions and Clarifications

19. The underground utility estimate does not provide temporary utilities for adjacent buildings. This is excluded from the scope of this estimate.
20. No drawings have been received by TCCO showing the existing conditions at the LRS. On this basis, TCCO has assumed a \$25,000 allowance to repair the existing metal panel at the LRS. Renovating or repairing the LRS, beyond the \$25,000 allowance, is excluded from this estimate.
21. jetBlue has requested that this estimate specifically exclude general liability insurance, Subguard, payment and performance bond, construction contingency, design contingency, general conditions, and fee. These items will have to be added to the estimate at a later date.

## Excavation and Foundations

22. This estimate includes the cost for local dewatering only during construction of the foundations. A water treatment facility has not been included.
23. This estimate includes concrete filled 200 Ton capacity monotube piles 70' deep and 18" diameter.
24. The foundation plans provided by ARUP on September 15, 2005, disagree with the underground utility plans provided by ARUP on September 15, 2005. The foundation is based on the Ground Level Floor Plan, which includes a cross section, and was received by Turner Construction on September 15, 2005.

## Underground Utilities

On September 14, 2005 ARUP issued, electronically, renderings to relocate some of the underground utilities and to encase the remaining underground utilities around the new foundation. Based on the drawing submitted by ARUP on September 14, 2005 TCCO estimated the value of the underground utility relocation to be \$2,897,000. The PA's estimate valued the underground utility work at \$6,200,000. The \$6,200,000 PA allowance is not based on drawings. The October 3, 2005 TCCO estimate increased the value of underground utilities from \$2,897,000 to \$6,200,000. The \$3,303,000 increase to \$6,200,000 represents a contingency of \$3,300,000. On November 5, 2005 JetBlue and the PA agreed to use an allowance of \$6,200,000 for the underground utilities. Both JetBlue and the PA are aware that drawings for the relocations are not available and that this allowance is subject to change. JetBlue and the PA had discussed making additional relocations but as of November 7, 2005 no revised underground utility drawings have been provided to TCCO. As of November 7, 2005 the underground utility work is not based on drawings, as drawings for this work are not available. The \$6,200,000 represents an allowance and not a hard number. Therefore this allowance is subject to change based on the final drawings. TCCO recommends that JetBlue's design team prepare drawings on the revised underground utilities and TCCO will prepare an estimate of the underground utility work.

## Roofing and Waterproofing

18. This estimate includes a white EPDM membrane roofing system

## Specialties

19. This estimate assumes that telephone specialties will be provided by the Owner

## Plumbing

Assumptions and Clarifications

20. This estimate excludes bathrooms from the parking garage.

Documents List

Sketch #1 – Not Titled / Not Dated – Ground Floor Plan and Elevation – Received from ARUP on 9/16/05  
Sketch #2 – Not Titled / Not Dated – 2<sup>nd</sup> Fl, 3<sup>rd</sup> Fl, 4<sup>th</sup> Fl, 5<sup>th</sup> Fl, and 6<sup>th</sup> Fl Plan – Received from ARUP on 9/16/05  
Sketch #3 – Not Titled / Not Dated – Underground Utility Plan – Storm Lines – Received from ARUP on 9/14/05  
Sketch #4 – Not Titled / Not Dated – Underground Utility Plan – Water lines – Received from ARUP on 9/14/05  
Sketch #5 – Not Titled / Not Dated – Underground Utility Plan – Water Lines – Received from ARUP on 9/14/05  
Sketch #6 – Not Titled / Not Dated – Underground Utility Plan – Thermal Distribution System – Received from ARUP on 9/14/05  
Sketch #7 – Not Titled / Not Dated – Underground Utility Plan – Thermal Distribution System – Received from ARUP on 9/14/05  
Sketch #8 – Not Titled / Not Dated – Underground Utility Plan – Communication – Received from ARUP on 9/14/05.  
Sketch #9 – Not Titled / Not Dated – Underground Utility Plan – Electrical – Received from ARUP on 9/14/05.  
Sketch #10 – Not Titled / Not Dated – Underground Utility Plan – Communication – Received from ARUP on 9/14/05.  
Sketch #11 – Not Titled / Not Dated – Underground Utility Plan – Electrical – Received from ARUP on 9/14/05.  
Sketch #12 – Not Titled / Not Dated – Underground Utility Plan – Water – Received From ARUP on 9/14/05  
Sketch #13 – Not Titled / Not Dated – Underground Utility Plan – Water – Received from ARUP on 9/14/05  
Toll Plaza Canopy Details for Terminal 4 Parking Lot. The Toll Plaza Canopy Detail include 42 sheets of drawings for this area. ARUP has requested that a similar layout be included in the September 21, 2005 estimate.  
Scheme #3 revised – Level 1 – Not Titled / Not Dated – Received from ARUP on 9/29/05.  
Scheme #3 revised – Level 2, 3, 4, 5, and 6 – Not Titled / Not Dated – Received from ARUP on 9/29/05.  
Scheme #4 – Level 1 – Not Titled / Not Dated – Received from ARUP on 9/29/05.  
Scheme #4 – Level 2, 3, 4, 5, and 6 – Not Titled / Not Dated – Received from ARUP on 9/29/05.  
Scheme #5 – Ground level foot print – Shows no scale – Received from ARUP on October 20, 2005.

## **Cost Categories**

### **Categories:**

#### **Item A**

Stage 2 Trade Cost Estimate  
Equipment  
Escalation  
Phasing/Staging/Parking  
Design Contingency  
Construction Contingency

#### **General Construction**

General Conditions, Const Mgmt & Field Supervision  
Performance & Payment Bonds  
Testing, Inspections & Surveys  
Insurance

#### **Soft Costs**

Planning & Design  
Program/Project Management

#### **Lessee \$80 Million Investment**

Lessee Shared Environmental  
Lessee Administrative  
PA Construction Inspection

#### **Carrying Costs (Financial Expense)**

#### **Project Contingency**

INITIALED:

  
\_\_\_\_\_  
FOR THE PORT AUTHORITY

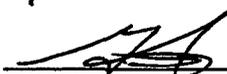
  
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FOR THE LESSEE

EXHIBIT 2.12

## Terminal 5 Redevelopment Element Budgets

Lessee Redevelopment Work Element Budgets

11-Nov-05

Element:	Elements of Work					Total
	Passenger Terminal	Airside Civil	Landside Civil	Parking Garage	Terminal 5 AirTrain Connector	
<b>Item A</b>						
Stage 2 Trade Cost Estimate	216,029,500	60,621,500	35,228,000	58,000,000	16,500,000	386,379,000
Equipment	50,000,000					50,000,000
Escalation	11,989,637	3,364,493	1,955,154	2,997,000	979,908	21,286,192
Phasing/Staging/Parking	3,240,443	909,323	528,420	810,000	264,840	5,753,026
Design Contingency	19,435,289	5,455,935	3,170,520	3,900,000	1,589,040	33,550,784
Construction Contingency	21,602,950	6,062,150	3,522,800	5,400,000	1,765,600	38,353,500
<b>Total Item A</b>	322,297,819	76,413,401	44,404,894	71,107,000	21,099,388	535,322,502
<b>General Construction</b>						
General Conditions, Const Mgmt & Field Supervision	30,244,130	8,487,010	4,931,920	7,560,000	2,471,840	53,694,900
Performance & Payment Bonds	2,160,295	606,215	352,280	540,000	176,560	3,835,350
Testing, Inspections & Surveys	4,320,590	1,212,430	704,560	1,080,000	353,120	7,670,700
Insurance	9,721,328	2,727,968	1,585,260	2,430,000	794,520	17,259,076
<b>Total General Construction</b>	46,446,343	13,033,623	7,574,020	11,610,000	3,796,040	82,460,026
<b>Total Construction (Item A + Gen'l Const)</b>	368,744,162	89,447,024	51,978,914	82,717,000	24,895,428	617,782,528
<b>Soft Costs</b>						
Planning, Arch/Engg Design	29,766,547	7,144,702	4,197,891	5,823,184	2,105,142	49,037,466
Program/Project Mgmt	7,200,000	1,800,000	1,000,000	1,500,000	500,000	12,000,000
<b>Total Soft</b>	36,966,547	8,944,702	5,197,891	7,323,184	2,605,142	61,037,466
<b>Total Item A, Gen'l Const + Soft</b>	405,710,709	98,391,726	57,176,805	90,040,184	27,500,570	678,819,994
Lessee \$80 Million Investment	(80,000,000)					(80,000,000)
Passenger Terminal less \$80 M	325,710,709					
Lessee Shared Environmental	2,000,000	1,500,000	500,000	-	-	4,000,000
Lessee Administrative	2,522,766	715,576	415,831	637,416	208,411	4,500,000
PA Construction Inspection	2,000,000	500,000	300,000	500,000	200,000	3,500,000
Carrying Costs (Financial Expense)	31,100,000	8,800,000	4,700,000	5,300,000	2,200,000	52,100,000
<b>Element Budget</b>	363,333,475	109,907,302	63,092,636	96,477,600	30,108,981	662,919,994

**Project Budget**

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\_\_\_\_\_  
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**EXHIBIT 2.13**

**Terminal 5 Redevelopment  
Anticipated Monthly Expenditure Schedule**

Terminal		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
44,000,000	2005												44,000,000	44,000,000
105,486,219	2006	7,032,415	7,032,415	7,032,415	7,032,415	8,790,518	8,790,518	8,790,518	8,790,518	10,548,622	10,548,622	10,548,622	10,548,622	105,486,219
146,715,317	2007	12,226,276	12,226,276	12,226,276	12,226,276	12,226,276	12,226,276	12,226,276	12,226,276	12,226,276	12,226,276	12,226,276	12,226,276	146,715,317
<u>36,031,939</u>	2008	4,503,992	4,503,992	4,503,992	4,503,992	4,503,992	4,503,992	4,503,992	4,503,992	-	-	-	-	36,031,939
332,233,475														332,233,475
Airside		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
7,227,968	2005												7,227,968	7,227,968
35,533,708	2006	2,368,914	2,368,914	2,368,914	2,368,914	2,961,142	2,961,142	2,961,142	2,961,142	3,553,371	3,553,371	3,553,371	3,553,371	35,533,708
40,698,281	2007	3,391,523	3,391,523	3,391,523	3,391,523	3,391,523	3,391,523	3,391,523	3,391,523	3,391,523	3,391,523	3,391,523	3,391,523	40,698,281
<u>17,647,345</u>	2008	2,205,918	2,205,918	2,205,918	2,205,918	2,205,918	2,205,918	2,205,918	2,205,918	-	-	-	-	17,647,345
101,107,302														101,107,302
Landside		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
3,085,260	2005												3,085,260	3,085,260
19,169,535	2006	1,277,969	1,277,969	1,277,969	1,277,969	1,597,461	1,597,461	1,597,461	1,597,461	1,916,953	1,916,953	1,916,953	1,916,953	19,169,535
22,196,404	2007	1,849,700	1,849,700	1,849,700	1,849,700	1,849,700	1,849,700	1,849,700	1,849,700	1,849,700	1,849,700	1,849,700	1,849,700	22,196,404
<u>13,941,437</u>	2008	1,742,680	1,742,680	1,742,680	1,742,680	1,742,680	1,742,680	1,742,680	1,742,680	-	-	-	-	13,941,437
58,392,636														58,392,636
Skywalk		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1,200,000	2005												1,200,000	1,200,000
7,518,971	2006	501,265	501,265	501,265	501,265	626,581	626,581	626,581	626,581	751,897	751,897	751,897	751,897	7,518,971
13,975,776	2007	1,164,648	1,164,648	1,164,648	1,164,648	1,164,648	1,164,648	1,164,648	1,164,648	1,164,648	1,164,648	1,164,648	1,164,648	13,975,776
<u>5,214,234</u>	2008	651,779	651,779	651,779	651,779	651,779	651,779	651,779	651,779	-	-	-	-	5,214,234
27,908,981														27,908,981
Garage		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2,300,000	2005												2,300,000	2,300,000
16,863,064	2006	1,124,204	1,124,204	1,124,204	1,124,204	1,405,255	1,405,255	1,405,255	1,405,255	1,686,306	1,686,306	1,686,306	1,686,306	16,863,064
62,014,536	2007	5,167,878	5,167,878	5,167,878	5,167,878	5,167,878	5,167,878	5,167,878	5,167,878	5,167,878	5,167,878	5,167,878	5,167,878	62,014,536
<u>10,000,000</u>	2008	2,500,000	2,500,000	2,500,000	2,500,000	-	-	-	-	-	-	-	-	10,000,000
91,177,600														91,177,600
Total		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
57,813,228	2005												57,813,228	57,813,228
184,571,496	2006	12,304,766	12,304,766	12,304,766	12,304,766	15,380,958	15,380,958	15,380,958	15,380,958	18,457,150	18,457,150	18,457,150	18,457,150	184,571,496
285,600,314	2007	23,800,026	23,800,026	23,800,026	23,800,026	23,800,026	23,800,026	23,800,026	23,800,026	23,800,026	23,800,026	23,800,026	23,800,026	285,600,314
82,834,955	2008	11,604,369	11,604,369	11,604,369	11,604,369	9,104,369	9,104,369	9,104,369	9,104,369	-	-	-	-	82,834,955
610,819,993														610,819,993

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**EXHIBIT 2.15**

**“Redevelopment Work Project Schedule”**

**to Lease No. AYD-350**

**between**

**THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY**

**and**

**JETBLUE AIRWAYS CORPORATION**

  
\_\_\_\_\_  
**For the Port Authority**

**Initialed:**

  
\_\_\_\_\_  
**For the Lessee**

## TABLE OF CONTENTS

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1.0	Redevelopment Work Project Schedule	
1.1	CPM Schedule 1-yr Baseline	80
1.2	Terminal 5 At Grade Connector Schedule	1
1.3	Terminal 5-6 Parking Garage Schedule	1

**Section 1.0**

**Redevelopment Work Project Schedule**

**Section 1.1**

**CPM Schedule 1-yr Baseline**

# CPM SCHEDULE

JetBlue Airways  
John F. Kennedy  
International Airport  
Terminal 5  
Redevelopment

## CPM Schedule 1-yr Baseline

Data Date: 16JUL04  
Submission Date: 24OCT05

Prepared for:

### Turner

Turner Construction Company  
375 Hudson Street  
New York, NY 10014

Submitted by:

**ForTheRecord**  
Construction Project Planners



2981 East Church Street, P.O. Box 771  
Pine Plains, New York 12567  
Tel (518) 398-9600 Fax (518) 398-9602

# Turner

A Century of Excellence

October 24, 2005

**jetBlue Airways Corporation**  
118-29 Queens Blvd  
Forest Hills, NY 11375

Attention: Mr. Richard Smyth

Subject: CPM Schedule 1-yr Baseline (16JUL04)

*Project:*

**jetBlue Airways**  
**JOHN F. KENNEDY INTERNATIONAL AIRPORT**  
**TERMINAL 5 REDEVELOPMENT**

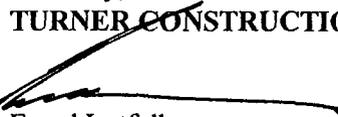
Dear Mr. Smyth:

For your use, review and approval, enclosed please find our CPM Schedule 1-yr Baseline Report for the captioned project, data date July 16, 2004. This report consists of the following:

- ① 1-yr Baseline CPM Schedule Narrative
- ① 1-yr Baseline CPM Schedule Critical Path Bar Chart
- ① 1-yr Baseline CPM Schedule Summary Bar Chart
- ① 1-yr Baseline CPM Schedule Milestone Bar Chart
- ① 1-yr Baseline CPM Schedule All Activities Bar Chart
- ① 1-yr Baseline CPM Schedule All Activities Act-Id Report

Should you have any comments or questions, please call.

Sincerely,  
**TURNER CONSTRUCTION COMPANY**

  
Emad Lotfalla  
Project Executive

Enclosures



**ForTheRecord**  
Construction Project Planners

Project:

**jetBlue Airways**  
**JOHN F. KENNEDY INTERNATIONAL AIRPORT**  
**TERMINAL 5 REDEVELOPMENT**

## **1-yr BASELINE CPM SCHEDULE NARRATIVE**

### **PROJECT DESCRIPTION**

- ☐ This project includes a 26 Gate, 650,000 square foot terminal for the expansion of jetBlue facilities at John F. Kennedy International Airport. The program includes the construction of the Main Terminal, fixed passenger bridges, special equipment, Air Train Connector, Flight Tubes, Airside Civil and Landside Civil work.

### **SCHEDULE GENERAL INFORMATION AND ASSUMPTIONS**

- ☐ This report represents Turner Construction Company's (Turner's) CPM Schedule 1-yr Baseline Report as of July 16, 2004. This 1-yr Baseline Schedule was developed in close cooperation with key members of the Turner team and it reflects their input as to the duration of each task and respective sequencing of work. Each of these members reviewed it for content, level of detail, dependencies amongst the different trade disciplines and compliance with contract requirements.
- ☐ This 1-yr Baseline Schedule attempts to anticipate and monitor all of Turner's tasks that may have an impact on the timely prosecution and eventual completion of the Project. It includes detailed activities for Turner's submittal, material procurement and construction work scheduled to occur in the first year and summary activities for the balance of the Project. The schedule shows activities from July 16, 2004, the Notice To Proceed to January 9, 2009, the Final Completion Date.
- ☐ July 16, 2004 was designated as the **Start of The Schedule Network**. LAF
- ~~10/17/05~~ ☐ **October 17, 2005** was designated as the **Start of Construction**.
- ☐ August 18, 2008 was designated as the **Target Substantial Completion Date**.
- ☐ For the purposes of this 1-yr Baseline CPM Schedule, the critical activities have been defined as the activities on the Longest Path
- ☐ This is a 1-yr schedule and is subject to change once major trades have been awarded.



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**jetBlue Airways**  
**JOHN F. KENNEDY INTERNATIONAL AIRPORT**  
**TERMINAL 5 REDEVELOPMENT**

**1-yr BASELINE CPM SCHEDULE NARRATIVE**

- ☐ This schedule is based on progress construction documents between 60% and 80 % complete.
- ☐ The pre-construction phase of this schedule is based on ARUP's TAA submission schedule issued August 5<sup>th</sup>, 2005.
- ☐ TCCo reserves the right to change durations and/or sequence upon review of final construction drawings.
- ☐ Permanent Power is shown to be available from the Port Authority on February 27, 2008.
- ☐ Permanent Sanitary Line is shown to be available from the Port Authority on March 28, 2007.
- ☐ Building Watertight at the Head House is shown on January 28, 2008.
- ☐ Once construction commences, Turner plans to have a continuous work operation at the job site.
- ☐ One (1) calendar has been set up for this project:
  - Calendar No. 1: Normal 5-Day Workweek Calendar. It assumes a workweek to be five (5) days long with Saturdays and Sundays and all legal holidays designated as non-working periods.
- ☐ For the purpose of graphics and data presentation, the project has been primarily broken down into the following activity code structure:

PHAS	Phases
STAG	Stage
LOC	Location
FLOO	Floor
AREA	Area
SARE	Sub Area
TRAD	Trade



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**jetBlue Airways**  
**JOHN F. KENNEDY INTERNATIONAL AIRPORT**  
**TERMINAL 5 REDEVELOPMENT**

## **1-yr BASELINE CPM SCHEDULE NARRATIVE**

☞ This Baseline CPM Schedule is NOT cost or resource-loaded.

☞ The following are some schedule statistics:

• Number of activities	1,300
• Critical activities in longest path	81
• Started activities	0
• Completed activities	0
• Number of relationships	2,163
• Percent complete	0
• Number of early constraints	76
• Number of late constraints	1
• Data date	16JUL04
• Imposed Substantial Completion date	18AUG08
• Calculated Substantial Completion date	18AUG08

### **CHANGES TO THE NETWORK LOGIC:**

*(NOTE: Refer to the Activity ID listing in this report for complete activity information when only the activity ID is mentioned below)*

☞ This section is reserved for future use when updating the schedule.

☞ Out-of-sequence-progress logic (those instances where activities were started or completed this period in a different sequence than originally outlined in the approved baseline schedule) was corrected this period as follows:

- This section is reserved for future use when updating the schedule.

### **SCHEDULE AND CRITICAL PATH ANALYSIS**

☞ This 1-yr Baseline CPM Schedule projects a Substantial Completion Date of August 18, 2008 and a Final Completion of January 9, 2009.



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**jetBlue Airways**  
**JOHN F. KENNEDY INTERNATIONAL AIRPORT**  
**TERMINAL 5 REDEVELOPMENT**

## **1-yr BASELINE CPM SCHEDULE NARRATIVE**

- ☐ The 1-yr Baseline critical path begins with the Start Construction Milestone constrained to October 17, 2005.

### **Site Preparation**

From the start of construction, the critical path moves through the site preparation stage with activities associated with the demolition of Flight Wing 1 and Flight Wing 2 being critical and the activities associated with the removal of the existing hydrant fueling system being critical. Demolition of Flight Wing 1 begins on November 14, 2005 followed by the demolition of Flight Wing 2 beginning one month later. The demolition of Flight Wing 2 is critical because it affects the driving of piles at zones 10, 11, 15 and 16. Removal of the existing hydrant fueling system is critical because the system must be at least partially removed before any pile driving can commence.

### **Piles and Foundations**

Once site preparation is sufficiently underway, the pile driving will begin and the critical path switches to the terminal construction stage. The terminal construction critical path begins with the driving of piles at zone 4 of the concourse and zone 6 of the head house. From zone 4 pile driving, the concourse critical path moves to pile driving at zone 3 and then zone 2 and then zone 1. The concourse piles and foundation critical path leads to the start of steel erection at the concourse.

From zone 6 pile driving, the head house critical path moves to pile driving at zone 7 and then zone 10. The concourse piles and foundation critical path leads to the start of steel erection at zone 6.

### **Superstructure**

Steel erection at the concourse begins at zone 4 on May 18, 2006. The critical path then includes zone 3 steel erection, metal deck placement, trade roughing, roof installation and spray-on fireproofing. This path leads to the start of the exterior wall at the concourse.



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TERMINAL 5 REDEVELOPMENT**

**1-yr BASELINE CPM SCHEDULE NARRATIVE**

Steel erection at the head house begins at zone 6 on June 28, 2006. From there, critical steel erection includes zones 5, 7, 8, 9, 10 and 11. Head house superstructure work is critical through spray on fireproofing at zone 11. This path leads to the start of the exterior wall and the start of interior MEP roughing at the head house.

**Summary Activities**

The balance of the critical path contains summary activities, which will be detailed upon award of the major trades.

At the concourse, the path moves through the exterior wall and building enclosure.

At the head house, the path moves through MEP roughing, exterior wall, architectural finishes and commissioning.

Other critical summary activities include the low voltage and BMS work and the baggage handling system.

**Substantial Completion**

All critical work leads to the pre-punchlist work, Port Authority inspections and sign off and Substantial Completion on August 18, 2008.

- ☐ For a complete listing of the critical path activities, please see the enclosed critical path bar chart.















Activity ID	Dur	% Total Float	Early Start	Early Finish	2004			2005			2006			2007			2008			2009			2010		
					M	A	M	J	F	M	J	F	M	J	F	M	J	F	M	J	F	M	J	F	M
<b>+ Package T-4 External Envelope TAA</b>																									
	405	0	28	06DEC05	11JUL07																				
<b>+ Package T-5 Interior Construction TAA</b>																									
	474	0	102	19JAN06	29NOV07																				
<b>+ Package T-6 MEP TAA</b>																									
	515	0	62	17OCT05	25OCT07																				
<b>+ Package T-7 Vertical Transportation TAA</b>																									
	490	0	146	24OCT05	27SEP07																				
<b>+ Package T-8 PLB TAA</b>																									
	360	0	196	07NOV05	09APR07																				
<b>+ Package T-9 Security Data TAA</b>																									
	345	0	35	22MAY06	28SEP07																				
<b>+ Package T-10 Communication &amp; IT TAA</b>																									
	365	0	25	22MAY06	26OCT07																				
<b>Construction</b>																									
<b>+ Mobilization</b>																									
	184	0	61	01JUN05	21FEB06																				
<b>+ Sitework/Roadways/Utilities</b>																									
	725	0	0	13MAR06	16JAN09																				
<b>Site Preparation</b>																									
<b>Bldg Demolition</b>																									
<b>+ Mobilization</b>																									
	5	0	0	17OCT05	21OCT05																				
<b>+ Flight Wing 1</b>																									
	101	0	0	28JUL05	19DEC05																				
<b>+ Flight Wing 1 Basement</b>																									
	45	0	10	20DEC05	23FEB06																				
<b>+ Building 296</b>																									
	118	0	26	07JUL05	21DEC05																				
<b>+ Building 8 OB Baggage</b>																									
	106	0	69	07JUL05	05DEC05																				
<b>+ Flight Wing 2</b>																									
	62	0	0	24OCT05	20JAN06																				
<b>+ Building 164</b>																									
	15	0	387	28JUL05	17AUG05																				

Start Date 16JUN04  
 Finish Date 16JAN09  
 Data Date 16JUL04  
 Run Date 18OCT05 14:28

Update Bar  
 Progress Bar  
 Critical Activity

TSBL  
 Sheet 4 of 6  
 jetBlue Airways  
 John F. Kennedy International Airport  
 Terminal 5 Redevelopment  
 Construction 1-yr Baseline Schedule  
 Summary Bar Chart

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Activity ID	Dur	% Total Float	Early Start	Early Finish	Timeline																		
					2004	2005	2006	2007	2008	2009	2010												
EW9220	12	0	206	04NOV05	21NOV05																		
EW9250	0	0	206		12DEC05																		
<b>Package EW-10 Hydrant Fueling TAA</b>																							
EW10100	94	0	64	24JAN05*	06JUN05																		
EW10150	0	0	64	01APR05																			
EW10200	49	0	64	01APR05	09JUN05																		
EW10210	0	0	64	10JUN05																			
EW10220	53	0	64	10JUN05	24AUG05																		
EW10230	14	0	64	25AUG05	14SEP05																		
EW10250	0	0	64		28SEP05																		
<b>Terminal Packages</b>																							
<b>Package T-1 Foundations/Piles TAA</b>																							
T1100	238	0	21	04AUG04*	12JUL05																		
T1150	0	0	21	16MAY05																			
T1200	49	0	21	16MAY05	25JUL05																		
T1210	0	0	21	26JUL05																			
T1220	18	0	21	26JUL05	18AUG05																		
T1230	16	0	34	19AUG05	12SEP05																		
T1250	0	0	34		26SEP05																		
<b>Package T-2 Structural TAA</b>																							
T2100	208	0	24	22OCT04*	17AUG05																		
T2150	0	0	24	11JUL05																			
T2200	34	0	24	11JUL05	25AUG05																		
T2210	0	0	24	26AUG05																			
T2220	10	0	24	26AUG05	09SEP05																		
T2230	15	0	49	12SEP05	30SEP05																		
T2250	0	0	49		14OCT05																		
<b>Package T-3 Baggage Handling TAA</b>																							
T3100	203	0	22	25OCT04*	11AUG05																		
T3150	0	0	22	12AUG05																			
T3200	30	0	22	12AUG05	23SEP05																		

Start Date 16JUN04  
 Finish Date 16JAN09  
 Data Date 16JUL04  
 Run Date 18OCT05 13:46

Update Bar  
 Progress Bar  
 Critical Activity

T5BL Sheet 3 of 44  
 jetBlue Airways  
 John F. Kennedy International Airport  
 Terminal 5 Redevelopment  
 Construction 1-yr Baseline Schedule  
 All Activities Bar Chart

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 Turner Construction Company

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Activity ID	Dur	% Total Float	Early Start	Early Finish	2004				2005				2006				2007				2008				2009				2010																																																				
					M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J
<b>Package T-2 Structural TAA</b>																																																																																	
Structural Steel																																																																																	
T101500	10	0	28	11JUL05	22JUL05	T10150011JUL05 22JUL05 TCCo Prep Bid Pkge Structural Steel																																																																											
T101510	5	0	28	25JUL05	29JUL05	T10151025JUL05 29JUL05 A/E Appr Scope Structural Steel																																																																											
T101520	0	0	28		29JUL05	T101520 29JUL05 BID PKGE SENT STRUCTURAL STEEL																																																																											
T101530	15	0	28	01AUG05	19AUG05	T10153001AUG05 19AUG05 Subs Prep Bids Structural Steel																																																																											
T101540	0	0	28		19AUG05	T101540 19AUG05 SUBMIT BIDS STRUCTURAL STEEL																																																																											
T101480	5	0	24	26AUG05	01SEP05	T10148026AUG05 01SEP05 TCCo Issue Addendum Structural Steel																																																																											
T101490	5	0	24	26AUG05	01SEP05	T10149026AUG05 01SEP05 Revise Bid Per Addn Structural Steel																																																																											
T101550	10	0	24	02SEP05	16SEP05	T10155002SEP05 16SEP05 Review Bids Structural Steel																																																																											
T101560	0	0	24		16SEP05	T101560 16SEP05 AWARD STRUCTURAL STEEL																																																																											
Superstructure Concrete																																																																																	
T101620	10	0	99	12SEP05*	23SEP05	T10162012SEP05 23SEP05 TCCo Prep Bid Pkge Super Concrete																																																																											
T101630	5	0	99	26SEP05	30SEP05	T10163026SEP05 30SEP05 A/E Appr Scope Super Concrete																																																																											
T101640	0	0	99		30SEP05	T101640 30SEP05 BID PKGE SENT Super CONCRETE																																																																											
T101650	15	0	99	03OCT05	21OCT05	T10165003OCT05 21OCT05 Subs Prep Bids Super Concrete																																																																											
T101660	0	0	99		21OCT05	T101660 21OCT05 SUBMIT BIDS Super CONCRETE																																																																											
T101600	10	0	99	24OCT05	04NOV05	T10160024OCT05 04NOV05 TCCo Issue Addendum Super Concrete																																																																											
T101610	10	0	99	07NOV05	18NOV05	T10161007NOV05 18NOV05 Revise Bid Per Addn Super Concrete																																																																											
T101670	10	0	99	21NOV05	05DEC05	T10167021NOV05 05DEC05 Review Bids Super Concrete																																																																											
T101680	0	0	99		05DEC05	T101680 05DEC05 AWARD Superstructure CONCRETE																																																																											
Spray on Fireproofing																																																																																	
T101740	10	0	60	12AUG05*	25AUG05	T10174012AUG05 25AUG05 TCCo Prep Bid Pkge SOFP																																																																											
T101750	5	0	60	26AUG05	01SEP05	T10175026AUG05 01SEP05 A/E Appr Scope SOFP																																																																											
T101760	0	0	60		01SEP05	T101760 01SEP05 BID PKGE SENT SOFP																																																																											
T101770	15	0	60	02SEP05	23SEP05	T10177002SEP05 23SEP05 Subs Prep Bids SOFP																																																																											
T101780	0	0	60		23SEP05	T101780 23SEP05 SUBMIT BIDS SOFP																																																																											
T101720	10	0	60	26SEP05	07OCT05	T10172026SEP05 07OCT05 TCCo Issue Addendum SOFP																																																																											
T101730	10	0	60	10OCT05	21OCT05	T10173010OCT05 21OCT05 Revise Bid Per Addn SOFP																																																																											
T101790	10	0	60	24OCT05	04NOV05	T10179024OCT05 04NOV05 Review Bids SOFP																																																																											
T101800	0	0	60		04NOV05	T101800 04NOV05 AWARD SOFP																																																																											
<b>Package T-3 Baggage Handling TAA</b>																																																																																	
Baggage Handling System																																																																																	
T101980	10	0	32	12AUG05	25AUG05	T10198012AUG05 25AUG05 TCCo Prep Bid Pkge BHS																																																																											
T101990	5	0	32	26AUG05	01SEP05	T10199026AUG05 01SEP05 A/E Appr Scope BHS																																																																											
T102000	0	0	32		01SEP05	T102000 01SEP05 BID PKGE SENT BHS																																																																											

Start Date 16JUN04  
 Finish Date 16JAN09  
 Data Date 16JUL04  
 Run Date 18OCT05 13:46

Update Bar  
 Progress Bar  
 Critical Activity

T5BL Sheet 11 of 44  
 jetBlue Airways  
 John F. Kennedy International Airport  
 Terminal 5 Redevelopment  
 Construction 1-yr Baseline Schedule  
 All Activities Bar Chart

**Turner**  
 Turner Construction Company

**ForTheRecord**  
 Construction Project Planners



































































REPORT DATE 21OCT05 RUN NO. 4547

START DATE 16JUN04 FIN DATE 16JAN09

1-yr Baseline Schedule Report - Sort by Act ID

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ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
10000	0	0	0	Start Construction	17OCT05*	18AUG08	17OCT05	18AUG08*	0
99999	0	0	0	SUBSTANTIAL COMPLETION (TCO)	17OCT05	25JAN06	21NOV05	2MAR06	25
100059	70	70	0	Remove Apron Pavement @ Sec 1&2 N. Apron	1JUN05*	20MAY06	26AUG05	16SEP05	61
100079	15	15	0	Install Site Fence	21DEC05	20MAR06	21DEC05	20MAR06	0
100119	61*	61*	0	Drive Piles @ Concourse	17FEB06	24JUL06	27FEB06	20DEC06	105
100129	104*	104*	0	Underslab Utilities/SOG @ Concourse	18MAY06	30AUG06	18MAY06	16JAN07	95
100139	73*	73*	0	Erect Steel @ Concourse 1st Floor	16JUL04	16JAN09	16JUL04	16JAN09	0
100149	1143*	1144*	0	Bid 's Award Arch/Fit Out (HA)	18MAY06	30AUG06	18MAY06	16JAN07	95
100159	73*	73*	0	Erect Steel @ Concourse 2nd Floor & Roof	16JUN06	7SEP06	21JUN06	19JUN07	198
100169	58*	58*	0	Place Metal Deck @ Concourse 2nd Floor	3JUL06	6OCT06	7JUL06	19JUL07	198
100179	68*	68*	0	Rough Deck @ Concourse 2nd Floor	25JUL06	24OCT06	25SEP06	11SEP07	223
100189	65*	65*	0	Place Concrete @ Concourse 2nd Floor	10AUG06	3NOV06	11OCT06	21SEP07	223
100199	61*	61*	0	SOPF @ Concourse 1st Floor	27SEP06	19JAN07	23OCT06	5OCT07	181
100209	80*	80*	0	SOPF @ Concourse 2nd Floor	27SEP06	19JAN07	23OCT06	5OCT07	181
100219	80*	80*	0	SOPF @ Concourse Roof	23JUN06	15SEP06	28JUN06	27JUN07	198
100229	59*	59*	0	Place Metal Deck @ Concourse Roof	28FEB07*	25JAN08	25JAN08	25JAN08	231
100239	0	0	0	PERMANENT POWER AVAILABLE (PA)	25JUL06	27OCT06	28JUL06	9AUG07	198
100249	68*	68*	0	Rough Deck @ Concourse Roof	6NOV06	10MAY07	6NOV06	10MAY07	0
100259	130	130	0	Install Exterior Wall @ Concourse	15AUG06	5JAN07	18AUG06	21SEP07	181
100269	100*	100*	0	Install Roof @ Concourse	15DEC06	26NOV07	23JAN07	2JAN08	25
100279	240	240	0	Install MEPS @ Concourse	17OCT05	9MAR06	3NOV05	23MAR06	13
100289	100	100	0	Remove Pavement @ Sec 3 E to W	17OCT05	25JAN06	3NOV05	13FEB06	13
100299	280*	280*	0	Remove Pavement @ Sec 4 W to E	17OCT05	21NOV06	1DEC05	8MAY07	116
100309	15	15	0	Relocate and Install Site Utilities	15JUN05	6JUL05	1DEC05	8MAY07	116
100319	25	25	0	Install Fence Lighting	26OCT05	3NOV05	14NOV05	30SEP05	61
100329	35*	35*	0	Perform Pile Load Test	12JAN06	5DEC05	17OCT05	19DEC05	13
100339	89*	89*	0	Perform Demolition & Asbestos Abatement	17AUG06	17MAY06	12JAN06	15MAR06	69
100349	260	260	0	Build Pile Caps & Foundations @ Concourse	15MAY07	21MAY08	15MAY07	11OCT06	102
100359	130	130	0	Install Low Voltage/BMS/Fire Alarm	25JAN08	29JUL08	25JAN08	21JUL08	0
100369	220	220	0	Test & Commission Low Voltage/BMS/Fire Alarm	13FEB07	24DEC07	21MAR07	30JAN08	25
100379	350	350	0	Install Architectural Roughing @ Concourse	27OCT06	14MAR08	6FEB07	20JUN08	69
100389	15	15	0	Setup Trailer Complex	16DEC06	9JAN06	16MAR06	5APR06	61
100399	260	260	0	Install Architectural Finishes @ Concourse	9MAY07	15MAY08	23JUN08	23JUN08	25
100409	0	0	0	CONCOURSE SUBSTANTIAL COMPLETION	29JUL08	19AUG08	14JUN07	19AUG08	14
100419	0	0	0	BUILDING ENCLOSURE @ CONCOURSE	10MAY07	10MAY07	10MAY07	10MAY07	0
100429	58*	58*	0	Set HVAC Equipment @ Concourse Roof	3JUL06	22SEP06	11AUG06	9AUG07	223
100439	125	125	0	Pre-Punchlist	22FEB08	18AUG08	22FEB08	18AUG08	0
100449	103	103	0	Test & Commission Vertical Transportation	12DEC07	9MAY08	21MAR07	18AUG08	69
100459	320	320	0	Pave Roadways Airside	27JUN07*	26JUN08	18APR07	21JUL08	16
100469	275	275	0	Pave Roadways & Siterwork Landside	27JUN07	25JUL08	20JUL07	19AUG08	16
100479	251*	251*	0	Install Fuel System	15FEB06	9FEB07	1MAY06	9MAR07	19
100489	367*	367*	0	Test & Commission Fuel System	12FEB07	22JUL08	12MAR07	18AUG08	19
100509	150	150	0	Install Jet Bridges	10DEC07	11JUL08	17JAN08	18AUG08	26
100519	220	220	0	Commission MEPS @ Concourse	11APR07	21FEB08	8OCT07	18AUG08	125
100520	120	120	0	Submit BHS Design/Shop Drawings	31OCT05	20APR06	1DEC05	22MAY06	22
100540	120	120	0	Submit Elevator Shop Drawings	24OCT05	13APR06	22MAY06	28NOV06	145
100560	120	120	0	Approve Elevator Shop Drawings	6DEC05	25MAY06	5JUL06	21DEC06	146
100570	120	120	0	Approve BHS Design/Shop Drawings	13DEC05	2JUN06	16JAN06	5JUL06	22
100580	380	380	0	Coordinate & Fab/Deel Elevator Matls	31MAR06	27SEP07	26OCT06	24APR08	146
100590	120	120	0	Submit Jet Bridge Shop Drawings	7NOV05	27APR06	16AUG06	5FEB07	196
100600	120	120	0	Approve Jet Bridge Shop Drawings	20DEC05	9JUN06	28SEP06	20MAR07	196
100610	250	250	0	Coordinate & Fab/Deel Jet Bridge Matls	14APR06	9APR07	23JAN07	16JAN08	196
100619	100	100	0	Build Roadways Airside Phase 2	26AUG08	16JAN09	26AUG08	16JAN09	0
100629	100	100	0	Post Substantial Completion Work	19AUG08	9JAN09	26AUG08	16JAN09	5
100639	15	15	0	Run Temp Electrical to Trailers	10JAN06	30JAN06	6APR06	26APR06	61
100649	0	0	0	FINAL COMPLETION	9JAN09	9JAN09	16JAN09	16JAN09	5
100650	355	355	0	Coordinate & Fab/Deel BHS Matls	7APR06	29AUG07	9MAY06	1OCT07	22
100659	30	30	0	Remove Apron Pavement @ Sec 9 De-icing	26SEP05*	4NOV05	30JAN07	13MAR07	341
100669	80	80	0	Remove Pavement @ Sec 5 & 6	30NOV06	26MAR07	22DEC06	17APR07	16
100679	50	50	0	Remove Pavement @ Sec 7	1MAR07*	9MAY07	9MAY07	13JUL07	49
100689	50	50	0	Remove Pavement @ Sec 8	1MAR07*	9MAY07	9MAY07	13JUL07	49
100699	100	100	0	Excavate for New Hydrant Fueling System	15FEB06	7JUL06	1MAY06	20SEP06	52
100709	125	125	0	Install New Hydrant Fueling System	28APR06	24OCT06	22MAY06	15NOV06	16
100719	75	75	0	Build Vaults for Hydrant Fueling System	26MAY06	12SEP06	22MAY06	15NOV06	46
100729	25	25	0	Tie Into & Test Hydrant Fueling Sys	25OCT06	29NOV06	16NOV06	21DEC06	16
100739	50	50	0	Install Cathodic Protection System	30NOV06	9FEB07	28DEC06	9MAR07	19

ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
100749	5	5	0	Mobilize Demo/Asbestos Contractor	17OCT05	21OCT05	17OCT05	21OCT05	0
100750	15	15	0	Perform Mechanical Disconnects @ Bldg 296	26OCT05	15NOV05	2DEC05	2DEC05	26
100769	15	15	0	Perform Electrical Disconnects @ Bldg 296	26OCT05	15NOV05	2DEC05	2DEC05	26
100779	15	15	0	Perform Plumbing Disconnects @ Bldg 296	26OCT05	15NOV05	2DEC05	2DEC05	26
100789	15	15	0	Perform Fire Protection Disconnects @ Bldg 296	26OCT05	15NOV05	2DEC05	2DEC05	26
100799	25	25	0	Remove ACM @ Bldg 296	7JUL05	10AUG05	10NOV05	15DEC05	89
100809	5	5	0	Obtain All-Clear Cert @ Bldg 296	11AUG05	17AUG05	16DEC05	22DEC05	89
100819	25	25	0	Perform Demolition @ Bldg 296	16NOV05	21DEC05	23DEC05	30JAN06	26
100829	15	15	0	Perform Mechanical Disconnects @ Flight Wing 1	24OCT05	11NOV05	24OCT05	11NOV05	0
100839	15	15	0	Perform Electrical Disconnects @ Flight Wing 1	24OCT05	11NOV05	24OCT05	11NOV05	0
100849	15	15	0	Perform Plumbing Disconnects @ Flight Wing 1	24OCT05	11NOV05	24OCT05	11NOV05	0
100859	15	15	0	Perform Fire Protect Disconnects @ Flight Wing 1	24OCT05	11NOV05	24OCT05	11NOV05	0
100869	25	25	0	Remove ACM @ Flight Wing 1	28JUL05*	31AUG05	3OCT05	4NOV05	46
100879	5	5	0	Obtain All-Clear Cert @ Flight Wing 1	1SEP05	8SEP05	7NOV05	11NOV05	46
100889	25	25	0	Perform Demolition @ Flight Wing 1	14NOV05	19DEC05	14NOV05	19DEC05	0
100899	10	10	0	PA Drain Hydrant Fueling System	17OCT05	28OCT05	17OCT05	28OCT05	0
100909	15	15	0	Perform Mechanical Disconnects @ Flight Wing 2	16NOV05	7DEC05	30DEC05	20JAN06	30
100919	15	15	0	Perform Electrical Disconnects @ Flight Wing 2	16NOV05	7DEC05	30DEC05	20JAN06	30
100929	15	15	0	Perform Plumbing Disconnects @ Flight Wing 2	16NOV05	7DEC05	30DEC05	20JAN06	30
100939	15	15	0	Perform Fire Protect Disconnects @ Flight Wing 2	16NOV05	7DEC05	30DEC05	20JAN06	30
100949	15	15	0	Remove ACM @ Flight Wing 2	24OCT05	11NOV05	16NOV05	7DEC05	17
100959	5	5	0	Obtain All-Clear Cert @ Flight Wing 2	14NOV05	18NOV05	8DEC05	14DEC05	17
100969	25	25	0	Perform Demolition @ Flight Wing 2	15DEC05	20JAN06	15DEC05	20JAN06	0
100979	20	20	0	Perform Mechanical Disconnects @ Bldg 8	24OCT05	18NOV05	15FEB06	15MAR06	79
100989	20	20	0	Perform Electrical Disconnects @ Bldg 8	24OCT05	18NOV05	15FEB06	15MAR06	79
100999	20	20	0	Perform Plumbing Disconnects @ Bldg 8	24OCT05	18NOV05	15FEB06	15MAR06	79
101009	20	20	0	Perform Fire Protection Disconnects @ Bldg 8	24OCT05	18NOV05	15FEB06	15MAR06	79
101019	15	15	0	Remove ACM @ Bldg 8	7JUL05	27JUL05	11JAN06	31JAN06	130
101029	5	5	0	Obtain All-Clear Cert @ Bldg 8	26JUL05	3AUG05	1FEB06	7FEB06	130
101039	25	25	0	Perform Demolition @ Bldg 8	31OCT05	5DEC05	8FEB06	15MAR06	69
101049	5	5	0	Perform Mechanical Disconnects @ Bldg 164	29JUL05*	3AUG05	6FEB07	12FEB07	387
101059	5	5	0	Perform Electrical Disconnects @ Bldg 164	29JUL05*	3AUG05	6FEB07	12FEB07	387
101069	5	5	0	Perform Plumbing Disconnects @ Bldg 164	28JUL05	3AUG05	6FEB07	12FEB07	387
101079	5	5	0	Perform Fire Protection Disconnects @ Bldg 164	28JUL05	3AUG05	6FEB07	12FEB07	387
101089	10	10	0	Cut & Cap Existing Hydrant Fueling Sys	31OCT05	11NOV05	31OCT05	11NOV05	0
101099	60	60	0	Cut & Remove Existing Hydrant Fueling Pipe	6DEC05	2MAR06	6DEC05	2MAR06	0
101109	10	10	0	Perform Demolition @ Bldg 164	48UG05	17AUG05	13FEB07	27FEB07	387
101119	90	90	0	Install New Site Drainage Piping	2MAR06	7JUL06	8DEC06	17AFR07	197
101129	60	60	0	Remove Existing Electrical	19DEC05	15MAR06	30DEC05	27MAR06	8
101139	60	60	0	Remove Existing Storm Water Pipe	19DEC05	15MAR06	30DEC05	27MAR06	8
101149	80	80	0	Reroute Existing Comm	19DEC05	12APR06	30DEC05	24APR06	8
101159	60	60	0	Remove Water & Sewer Lines	19DEC05	15MAR06	30DEC05	27MAR06	8
101169	238	238	0	Install Hydrant Fueling Monitoring System	9MAY07	14APR08	5JUN07	9MAY08	19
101179	60	60	0	Test & Commission Hydrant Fueling System	12FEB07	7MAY07	12MAY08	4JUN07	19
101189	69	69	0	Final Commission Hydrant Fueling System	15APR08	22JUL08	12MAY08	18AUG08	19
101199	80	80	0	Install Hydrant Fueling System	17OCT05	11NOV05	1DEC05	16DEC05	0
101209	20	20	0	Investigate & Verify Existing Utilities	15APR08*	16DEC08	19AUG08	16DEC08	0
101219	60	60	0	Remove Existing Drainage Lines	19DEC05	15MAR06	1DEC05	29DEC05	32
101229	70	70	0	Install Storm Sceptors	1FEB06	10MAY06	9NOV06	20FEB07	197
101239	70	70	0	Install Catch Basins	1FEB06	10MAY06	9NOV06	20FEB07	197
101249	70	70	0	Install Manholes	1FEB06	10MAY06	9NOV06	20FEB07	197
101259	10	10	0	Set up Dewatering @ FW 1 Basement	20DEC05	4JAN06	5JAN06	16JAN06	10
101269	5	5	0	Excavate at Bldg Perimeter @ FW 1 Basement	5JAN06	11JAN06	19JAN06	25JAN06	10
101279	20	20	0	Remove Basement Slab & File Caps @ FW 1 Basement	9FEB06	8FEB06	26JAN06	23FEB06	10
101289	3	3	0	Survey Existing Pile Caps @ FW 1 Basement	14FEB06	13FEB06	24FEB06	28FEB06	10
101299	7	7	0	Install Bentonite Mat @ FW 1 Basement	20DEC05	3MAY06	20DEC05	16JAN09	687
101300	94*	94*	0	Drive Piles @ Head House	14FEB06	23FEB06	1MAR06	9MAR06	10
101309	7	7	0	Backfill at Elev 7'6" @ FW 1 Basement	14FEB06	23FEB06	1MAR06	9MAR06	10
101310	79*	79*	0	Build Pile Caps & Foundations @ Head House	12JAN06	3MAY06	16FEB06	20SEP07	351
101319	15	15	0	Drive Piles @ HH Zone 6	20DEC05	11JAN06	20DEC05	11JAN06	0
101320	150*	150*	0	Underslab Utilities/SOG @ Head House	22FEB06	22SEP06	20DEC05	11JAN06	0
101329	60	60	0	Remove Existing Hydrant Fuel Pits & Structures	20DEC05	16MAR06	20DEC05	27JAN06	589
101339	5	5	0	Test & Recharge Existing Hydrant Fueling Line	14NOV05	13NOV05	14NOV05	18NOV05	0
101340	97*	97*	0	Erect Steel @ Head House 1st Floor	28JUN06	13NOV06	28JUN06	8DEC06	18
101349	60	60	0	Excavate for Removal Existing Hydrant Fuel Sys	21NOV05	15FEB06	21NOV05	15FEB06	0
101350	122*	122*	0	Rough Deck @ Head House 2nd Floor	20SEP06	14MAR07	28SEP06	30JAN08	224
101359	80	80	0	Backfill & Slurry Existing Hydrant Fueling Sys	5JAN06	27APR06	27JAN06	19MAY06	16

Zone

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16:53

START DATE 16JUN04 FIN DATE 16JAN09

1-yr Baseline-Schedule Report - Sort by Act ID

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ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
101360	112*	112*	0	Place Metal Deck @ Head House 2nd Floor	27JUL06	4JAN07	2AUG06	19JUL07	137
101369	70	70	0	Remove Apron Pav & Excavate for Site Drainage	19DEC05	29MAR06	12OCT06	22JAN07	207
101370	112*	112*	0	Place Metal Deck @ Head House Roof	27JUL06	4JAN07	2AUG06	19JUL07	137
101379	15	15	0	Run Temp Plumbing to Trailers	31JUN06	21FEB06	27AUG06	17MAY06	61
101380	107*	107*	0	Place Concrete @ Head House 2nd Floor	11OCT06	14MAR07	10NOV06	30JAN08	224
101389	20	20	0	Fill & Flush Hydrant Fueling System	30NOV06	28DEC06	9FEB07	9MAR07	49
101390	97*	97*	0	Rough Deck @ Head House Roof	11OCT06	28FEB07	27OCT06	16AUG07	119
101399	81	81	0	AE/PA Inspections	4APR08	29JUL08	4APR08	29JUL08	0
101400	147*	147*	0	Install Roof @ Head House	25OCT06	23MAY07	10NOV06	7SEF07	74
101409	14	14	0	PA Sign Off	30JUL08	18AUG08	30JUL08	18AUG08	0
101419	0	0	0	PERMANENT SANITARY LINE AVAILABLE (PA)	28MAR07*	24DEC07	24DEC07	24DEC07	189
101420	115*	115*	0	SOFP @ Head House 1st Floor	20OCT06	4APR07	21NOV06	2JAN09	444
101429	0	0	0	BUILDING WATERTIGHT @ HEAD HOUSE	25JAN08	15MAR07	19AUG08	144	0
101440	240	240	0	Install MEPS @ Head House	15MAR07	22FEB08	15MAR07	22FEB08	0
101450	142*	142*	0	SOFP @ Head House 2nd Floor	15NOV06	7JUN07	4DEC06	16JAN09	409
101460	142*	142*	0	SOFP @ Head House Roof	15NOV06	7JUN07	4DEC06	16JAN09	409
101470	25	25	0	Install Exterior Wall @ Head House	29MAR07	11APR08	29MAR07	11APR08	0
101480	270	270	0	Install Architectural Roughing @ Head House	10MAY07	11APR08	31MAY07	20JUN08	14
101490	0	0	0	BUILDING ENCLOSURE @ HEAD HOUSE	21JAN05	1APR05	5AUG05	14OCT05	89
101530	50*	50*	0	Bid & Award Asbestos & Demolition (HA)	10NOV06	24AUG07	5NOV07	18AUG08	137
101550	200	200	0	Build Circulator Roadway @ Head House	24DEC07	18AUG08	24DEC07	18AUG08	249
101560	166	166	0	Commission MEPS @ Head House	24DEC07	18AUG08	24DEC07	18AUG08	0
101570	0	0	0	ROOF COMPLETE @ HEAD HOUSE	23MAY07	23MAY07	23AUG06	7SEF07	74
101600	129*	129*	0	Erect Steel @ Head House 2nd Floor & Roof	28JUN06	12DEC06	28JUN06	16JAN09	520
101659	90	80	0	Reroute Existing HV Electrical	19DEC05	29APR06	30DEC05	24APR06	8
101669	170	170	0	Install New Sanitary Service	6FEB06	5OCT06	7SEP06	8MAY07	149
101679	170	170	0	Install New Water Service	6FEB06	5OCT06	7SEP06	8MAY07	149
101689	40	40	0	Remove Exist Apron Pav & Excavate for 5kv Elec	28DEC05	23FEB06	10MAR06	4MAY06	50
101699	170	170	0	Install New Gas Line	6FEB06	5OCT06	7SEP06	8MAY07	149
101709	180	180	0	Install New TDS System	10MAR06	21NOV06	23AUG06	8MAY07	116
101719	90	90	0	Set Manholes for New 5kv Elec Service	14MAR06	19MAY06	19MAY06	17JUL06	49
101720	180	180	0	Submit Structural Steel Shop Drawings	19SEP05	2JUN06	21OCT05	7JUL06	24
101729	50	50	0	Set Ductbanks for New 5kv Elec Service	14MAR06	22MAY06	5MAY06	17JUL06	38
101739	30	30	0	Pull Cable for New 5kv Elec Service	23MAY06	5JUL06	18JUL06	28AUG06	38
101749	30	30	0	Splice, Test & Tie New 5kv Elec Service	6JUL06	16AUG06	29AUG06	10OCT06	38
101759	50	50	0	Install New Sanitary & Water for T6 Expansion	26JAN06	6APR06	6FEB07	17APR07	261
101769	60	60	0	Install 480v System for De-icing	21NOV05	15FEB06	28MAR07	20JUN07	341
101770	180	180	0	Approve Structural Steel Shop Drawings	21NOV05	7AUG06	27DEC05	11SEP06	324
101779	20	20	0	Install New Pavement @ De-icing	13MAR06*	7APR06	21JUN07	19JUL07	325
101800	79*	79*	0	Set HVAC Equipment @ Head House Roof	20SEP06	11JAN07	3NOV06	16AUG07	152
101850	190	190	0	Coordinate & Fabricate Structural Steel Mats	5JAN06	3OCT06	8FEB06	6NOV06	24
101900	240	240	0	Install Architectural Finishes @ Head House	10SEP07	18AUG08	10SEP07	18AUG08	0
102000	0	0	0	HEAD HOUSE SUBSTANTIAL COMPLETION	29SEP06	22MAY08	29SEP06	22MAY08	0
102010	419	419	0	Test & Commission Baggage Handling System	14APR08	29JUL08	14APR08	29JUL08	0
102030	75	75	0	Install Baggage Handling System	29SEP06	22MAY08	29SEP06	22MAY08	0
102100	14	14	0	Drive Piles @ Cc Zone 1	1MAR06	20MAR06	1MAR06	20MAR06	0
102440	18	18	0	Drive Piles @ Cc Zone 2	2FEB06	28FEB06	2FEB06	28FEB06	0
102780	15	15	0	Drive Piles @ Cc Zone 3	12JAN06	1FEB06	12JAN06	1FEB06	0
103112	14	14	0	Drive Piles @ Cc Zone 4	21DEC05	11JAN06	21DEC05	11JAN06	0
103444	8	8	0	Drive Piles @ HH Zone 5	12JAN06	23JAN06	16JAN06	25JAN06	2
103784	10	10	0	Drive Piles @ HH Zone 7	12JAN06	25JAN06	12JAN06	25JAN06	0
104124	12	12	0	Drive Piles @ HH Zone 8	24FEB06	13MAR06	10MAR06	27MAR06	10
104464	15	15	0	Drive Piles @ HH RW Zone 9	24JAN06	13FEB06	26JAN06	15FEB06	2
104804	15	15	0	Drive Piles @ HH RW Zone 10	26JAN06	15FEB06	26JAN06	15FEB06	0
105144	15	15	0	Drive Piles @ HH Zone 11	16FEB06	9MAR06	5JUL06	25JUL06	96
105484	9	9	0	Drive Piles @ HH Zone 12	11APR06	21APR06	31AUG06	13SEP06	100
105824	10	10	0	Drive Piles @ HH RW Zone 13	28MAR06	10APR06	17AUG06	30AUG06	100
106164	10	10	0	Drive Piles @ HH RW Zone 14	14MAR06	27MAR06	3AUG06	16AUG06	100
106504	8	8	0	Drive Piles @ HH RW Zone 15	10MAR06	21MAR06	26JUL06	4AUG06	96
106844	12	12	0	Drive Piles @ HH RW Zone 16	22MAR06	6APR06	7AUG06	22AUG06	96
106894	15	15	0	Drive Balance of Piles @ Utility Relocations	13APR06	3MAY06	26DEC08	16JAN09	687
1000010	10	10	0	Fill Piles @ Cc Zone 1	21MAR06	3APR06	21MAR06	3APR06	0
1000020	14	14	0	Build Pile Caps @ Cc Zone 1	4APR06	21APR06	4APR06	21APR06	0
1000030	18	18	0	Build Grade Beams @ Cc Zone 1	24APR06	17MAY06	24APR06	17MAY06	0
1000040	20	20	0	Install UG Plumbing @ Cc Zone 1	1MAY06	6MAY06	28SEP06	25OCT06	105
1000050	20	20	0	Install Underslab Electrical @ Cc Zone 1	8MAY06	5JUN06	5OCT06	1NOV06	105
1000060	12	12	0	Backfill & Install Vapor Barrier @ Cc Zone 1	6JUN06	21JUN06	2NOV06	17NOV06	105

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ACTIVITY ID	ORIG REM DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
1000070	10	10	0	Build Foundation Walls @ Cc Zone 1	22JUN06	6JUL06	20NOV06	4DEC06	105
1000080	12	12	0	Place SOG @ Cc Zone 1	7JUL06	24JUL06	5DEC06	20DEC06	105
1000090	17	17	0	Erect Steel @ Cc Zone 1	8AUG06	30AUG06	21DEC06	16JAN07	95
1000100	5	5	0	Place Metal Deck 2nd Fl @ Zone 1	31AUG06	7SEP06	17JAN07	23JAN07	95
1000110	6	6	0	Place Metal Deck on Roof @ Zone 1	8SEP06	15SEP06	24JAN07	31JAN07	95
1000120	5	5	0	Set HVAC Roof Equipment @ Zone 1	18SEP06	22SEP06	9MAR07	15MAR07	120
1000130	15	15	0	Rough MEP at Roof @ Zone 1	9OCT06	27OCT06	23FEB07	15MAR07	95
1000140	30	30	0	Install Roof @ Zone 1	22NOV06	5JAN07	16MAR07	26APR07	78
1000150	15	15	0	Rough MEP 2nd Fl @ Zone 1	18SEP06	6OCT06	1FEB07	22FEB07	95
1000160	12	12	0	Place Concrete 2nd Fl @ Zone 1	9OCT06	24OCT06	30MAR07	16APR07	120
1000170	8	8	0	SOPP 1st Fl @ Zone 1	25OCT06	3NOV06	17APR07	26APR07	120
1000180	10	10	0	SOPP 2nd Fl & Roof @ Zone 1	8JAN07	19JAN07	27APR07	10MAY07	78
1000190	5	5	0	Detail Edges & Shoot Shear Studs 2nd Fl @ Zone 1	8SEP06	14SEP06	23MAR07	29MAR07	136
1000200	6	6	0	Detail Edges Roof @ Zone 1	28DEC06	5JAN07	19APR07	26APR07	78
2000010	13	13	0	Fill Piles @ Cc Zone 2	1MAR06	17MAR06	27JUL06	14AUG06	104
2000020	14	14	0	Build Pile Caps @ Cc Zone 2	7APR06	6APR06	15AUG06	1SEP06	104
2000030	27	27	0	Build Grade Beams @ Cc Zone 2	20APR06	15MAY06	5SEP06	11OCT06	104
2000040	14	14	0	Install US Plumbing @ Cc Zone 2	14APR06	3MAY06	18SEP06	5OCT06	108
2000050	14	14	0	Install Underslab Electrical @ Cc Zone 2	20APR06	9MAY06	22SEP06	11OCT06	108
2000060	14	14	0	Backfill & Install Vapor Barrier @ Cc Zone 2	16MAY06	5JUN06	12OCT06	31OCT06	104
2000080	17	17	0	Place SOG @ Cc Zone 2	6JUN06	28JUN06	1NOV06	24NOV06	104
2000090	18	18	0	Erect Steel @ Cc Zone 2	13JUL06	7AUG06	27NOV06	20DEC06	95
2000100	5	5	0	Place Metal Deck 2nd Fl @ Zone 2	8AUG06	14AUG06	13JUN07	19JUN07	215
2000110	6	6	0	Place Metal Deck on Roof @ Zone 2	15AUG06	22AUG06	20JUN07	27JUN07	215
2000120	5	5	0	Set HVAC Roof Equipment @ Zone 2	23AUG06	29AUG06	3AUG07	9AUG07	240
2000130	15	15	0	Rough MEP at Roof @ Zone 2	14SEP06	4OCT06	20JUL07	21SEP07	215
2000140	30	30	0	Install Roof @ Zone 2	5OCT06	15NOV06	10AUG07	21SEP07	215
2000150	15	15	0	Rough MEP 2nd Fl @ Zone 2	23AUG06	13SEP06	28JUN07	19JUL07	215
2000160	12	12	0	Place Concrete 2nd Fl @ Zone 2	14SEP06	29SEP06	24AUG07	11SEP07	240
2000170	8	8	0	SOPP 1st Fl @ Zone 2	2OCT06	11OCT06	12SEP07	21SEP07	240
2000180	10	10	0	SOPP 2nd Fl & Roof @ Zone 2	16NOV06	3NOV06	24SEP07	5OCT07	215
2000190	5	5	0	Detail Edges & Shoot Shear Studs 2nd Fl @ Zone 2	15AUG06	21AUG06	17AUG07	23AUG07	256
2000200	6	6	0	Detail Edges Roof @ Zone 2	23AUG06	30AUG06	14SEP07	21SEP07	269
3000010	12	12	0	Fill Piles @ Cc Zone 3	2FEB06	21FEB06	21FEB06	9MAR06	12
3000020	16	16	0	Build Pile Caps @ Cc Zone 3	21FEB06	14MAR06	9MAR06	30MAR06	12
3000030	21	21	0	Build Grade Beams @ Cc Zone 3	15MAR06	12APR06	31MAR06	29APR06	12
3000040	14	14	0	Install UG Plumbing @ Cc Zone 3	22MAR06	10APR06	7APR06	26APR06	12
3000050	14	14	0	Install Underslab Electrical @ Cc Zone 3	28MAR06	14APR06	13APR06	2MAY06	12
3000060	14	14	0	Backfill & Install Vapor Barrier @ Cc Zone 3	17APR06	4MAY06	3MAY06	22MAY06	12
3000080	17	17	0	Place SOG @ Cc Zone 3	5MAY06	30MAY06	23MAY06	15JUN06	12
3000090	18	18	0	Erect Steel @ Cc Zone 3	16JUN06	12JUL06	16JUN06	12JUL06	0
3000100	5	5	0	Place Metal Deck 2nd Fl @ Zone 3	13JUL06	19JUL06	13JUL06	19JUL06	0
3000110	6	6	0	Place Metal Deck on Roof @ Zone 3	20JUL06	27JUL06	20JUL06	27JUL06	0
3000120	5	5	0	Set HVAC Roof Equipment @ Zone 3	28JUL06	3AUG06	1SEP06	8SEP06	25
3000130	15	15	0	Rough MEP at Roof @ Zone 3	18AUG06	8SEP06	18AUG06	8SEP06	0
3000140	30	30	0	Install Roof @ Zone 3	11SEP06	20OCT06	11SEP06	20OCT06	0
3000150	15	15	0	Rough MEP 2nd Fl @ Zone 3	28JUL06	17AUG06	28JUL06	17AUG06	0
3000160	12	12	0	Place Concrete 2nd Fl @ Zone 3	18AUG06	5SEP06	25SEP06	10OCT06	25
3000170	8	8	0	SOPP 1st Fl @ Zone 3	6SEP06	15SEP06	11OCT06	20OCT06	25
3000180	10	10	0	SOPP 2nd Fl & Roof @ Zone 3	23OCT06	3NOV06	23OCT06	3NOV06	0
3000190	5	5	0	Detail Edges & Shoot Shear Studs 2nd Fl @ Zone 3	20JUL06	26JUL06	24AUG06	30AUG06	25
3000200	6	6	0	Detail Edges Roof @ Zone 3	28JUL06	4AUG06	31AUG06	8SEP06	24
4000010	12	12	0	Fill Piles @ Cc Zone 4	12JAN06	27JAN06	12JAN06	27JAN06	0
4000020	14	14	0	Build Pile Caps @ Cc Zone 4	30JAN06	16FEB06	30JAN06	16FEB06	0
4000030	17	17	0	Build Grade Beams @ Cc Zone 4	17FEB06	14MAR06	17FEB06	14MAR06	0
4000040	14	14	0	Install UG Plumbing @ Cc Zone 4	27FEB06	16MAR06	27FEB06	16MAR06	0
4000050	14	14	0	Install Underslab Electrical @ Cc Zone 4	3MAR06	22MAR06	3MAR06	22MAR06	0
4000060	14	14	0	Backfill & Install Vapor Barrier @ Cc Zone 4	23MAR06	11APR06	23MAR06	11APR06	0
4000070	12	12	0	Build Foundation Walls @ Cc Zone 4	12APR06	27APR06	12APR06	27APR06	0
4000080	14	14	0	Place SOG @ Cc Zone 4	28APR06	17MAY06	28APR06	17MAY06	0
4000090	20	20	0	Erect Steel @ Zone 4	18MAY06	15JUN06	18MAY06	15JUN06	0
4000100	5	5	0	Place Metal Deck 2nd Fl @ Zone 4	16JUN06	22JUN06	21JUN06	27JUN06	3
4000110	6	6	0	Place Metal Deck on Roof @ Zone 4	23JUN06	30JUN06	28JUN06	6JUL06	3
4000120	5	5	0	Set HVAC Roof Equipment @ Zone 4	3JUL06	10JUL06	11AUG06	17AUG06	28
4000130	15	15	0	Rough MEP at Roof @ Zone 4	25JUL06	14AUG06	18AUG06	17AUG06	3
4000140	30	30	0	Install Roof @ Zone 4	15AUG06	26SEP06	28AUG06	29SEP06	3
4000150	15	15	0	Rough MEP 2nd Fl @ Zone 4	3JUL06	24JUL06	7JUL06	27JUL06	3

ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
4000160	12	12	0	Place Concrete 2nd Fl @ Zone 4	25JUL06	9AUG06	8DEC06	26DEC06	96
4000170	8	8	0	SOPF 1st Fl @ Zone 4	10AUG06	21AUG06	27DEC06	8JAN07	96
4000180	10	10	0	SOPF 2nd Fl @ Roof @ Zone 4	23SEP06	10OCT06	9JAN07	22JAN07	71
4000190	5	5	0	Detail Edges & Shoot Shear Studs 2nd Fl @ Zone 4	27OCT06	29JUN06	3AUG06	9AUG06	28
5000200	6	6	0	Detail Edges Roof @ Zone 4	3JUL06	11JUL06	10AUG06	17AUG06	27
5000210	7	7	0	Fill Piles @ Cc Zone 5	24JAN06	1FEB06	22MAY06	31MAY06	83
5000220	8	8	0	Build Pile Caps @ Cc Zone 5	2FEB06	13FEB06	13JUN06	23JUN06	83
5000230	9	9	0	Build Grade Beams @ Cc Zone 5	14FEB06	27FEB06	13JUN06	12JUN06	83
5000040	12	12	0	Install UG Plumbing @ Cc Zone 5	28FEB06	9MAR06	26JUN06	6JUL06	83
5000050	12	12	0	Install Underslab Electrical @ Cc Zone 5	28FEB06	15MAR06	26JUN06	12JUL06	83
5000060	7	7	0	Backfill & Install Vapor Barrier @ Cc Zone 5	16MAR06	24MAR06	13JUL06	21JUL06	83
5000080	8	8	0	Place SOG @ Cc Zone 5	27MAR06	5APR06	24JUL06	2AUG06	83
5000090	5	5	0	Erect Steel @ Zone 5	3AUG06	9AUG06	3AUG06	9AUG06	0
5000100	13	13	0	Place Metal Deck 2nd Fl @ Zone 5	10AUG06	28AUG06	28AUG06	14SEP06	12
5000110	15	15	0	Place Metal Deck on Roof @ Zone 5	29AUG06	19SEP06	15SEP06	5OCT06	12
5000120	5	5	0	Set HVAC Roof Equipment @ Zone 5	20SEP06	26SEP06	3NOV06	9NOV06	32
5000130	10	10	0	Rough MEP at Roof @ Zone 5	11OCT06	24OCT06	27OCT06	9NOV06	12
5000140	15	15	0	Install Roof @ Zone 5	25OCT06	14NOV06	10NOV06	1DEC06	12
5000150	15	15	0	Rough MEP 2nd Fl @ Zone 5	20SEP06	19OCT06	6OCT06	26OCT06	12
5000160	7	7	0	Place Concrete 2nd Fl @ Zone 5	11OCT06	19OCT06	10NOV06	20NOV06	22
5000170	8	8	0	SOPF 1st Fl @ Zone 5	20OCT06	31OCT06	21NOV06	1DEC06	22
5000180	8	8	0	SOPF 2nd Fl @ Roof @ Zone 5	15NOV06	27NOV06	4DEC06	13DEC06	12
5000190	13	13	0	Detail Edges & Shoot Shear Studs 2nd Fl @ Zone 5	29AUG06	15SEP06	24OCT06	9NOV06	37
5000200	15	15	0	Detail Edges Roof @ Zone 5	20SEP06	10OCT06	10NOV06	1DEC06	39
6000010	14	14	0	Fill Piles @ Cc Zone 6	12JAN06	31JAN06	12APR06	1MAY06	63
6000020	17	17	0	Build Pile Caps @ Cc Zone 6	1FEB06	24FEB06	2MAY06	24MAY06	63
6000030	23	23	0	Build Grade Beams @ Cc Zone 6	27FEB06	29MAR06	25MAY06	27JUN06	63
6000040	17	17	0	Install UG Plumbing @ Cc Zone 6	6MAR06	28MAR06	24OCT08	17NOV08	672
6000050	27	27	0	Install Underslab Electrical @ Cc Zone 6	6MAR06	11APR06	24OCT08	22DEC08	672
6000060	14	14	0	Backfill & Install Vapor Barrier @ Cc Zone 6	12APR06	1MAY06	3DEC08	22DEC08	672
6000080	17	17	0	Place SOG @ Cc Zone 6	2MAY06	24MAY06	23DEC08	16JAN09	672
6000090	20	20	0	Erect Steel @ Zone 6	28JUN06	26JUL06	28JUN06	26JUL06	0
6000100	20	20	0	Place Metal Deck 2nd Fl @ Zone 6	27JUL06	23AUG06	2AUG06	29AUG06	4
6000110	25	25	0	Place Metal Deck on Roof @ Zone 6	24AUG06	28SEP06	30AUG06	4OCT06	4
6000120	5	5	0	Set HVAC Roof Equipment @ Zone 6	29SEP06	5OCT06	1DEC06	7DEC06	44
6000130	20	20	0	Rough MEP at Roof @ Zone 6	3NOV06	1DEC06	9NOV06	7DEC06	4
6000140	40	40	0	Install Roof @ Zone 6	4DEC06	30JAN07	8DEC06	5FEB07	4
6000150	25	25	0	Rough MEP 2nd Fl @ Zone 6	29SEP06	2NOV06	5OCT06	8NOV06	4
6000160	20	20	0	Place Concrete 2nd Fl @ Zone 6	3NOV06	1DEC06	11JAN07	7FEB07	46
6000170	11	11	0	SOPF 1st Fl @ Zone 6	4DEC06	18DEC06	8FEB07	23FEB07	46
6000180	8	8	0	SOPF 2nd Fl @ Zone 6	31JAN07	9FEB07	26FEB07	7MAR07	17
6000190	20	20	0	Detail Edges & Shoot Shear Studs 2nd Fl @ Zone 6	24AUG06	21SEP06	1DEC06	29DEC06	69
6000200	25	25	0	Detail Edges Roof @ Zone 6	29SEP06	2NOV06	2JAN07	5FEB07	64
7000010	11	11	0	Fill Piles @ Cc Zone 7	26JAN06	9FEB06	27MAR06	10APR06	41
7000020	13	13	0	Build Pile Caps @ Cc Zone 7	10FEB06	1MAR06	11APR06	27APR06	41
7000030	15	15	0	Build Grade Beams @ Cc Zone 7	2MAR06	22MAR06	28APR06	18MAY06	41
7000040	22	22	0	Install UG Plumbing @ Cc Zone 7	9MAR06	7APR06	5MAY06	6JUN06	41
7000050	22	22	0	Install Underslab Electrical @ Cc Zone 7	9MAR06	7APR06	5MAY06	6JUN06	41
7000060	12	12	0	Backfill & Install Vapor Barrier @ Cc Zone 7	10APR06	25APR06	7JUN06	6JUN06	41
7000070	11	11	0	Build Foundation Walls @ Cc Zone 7	26APR06	10MAY06	23JUN06	10JUL06	41
7000080	12	12	0	Place SOG @ Cc Zone 7	11MAY06	26MAY06	11JUL06	26JUL06	41
7000090	5	5	0	Erect Steel @ Zone 7	27JUL06	2AUG06	27JUL06	2AUG06	0
7000100	17	17	0	Place Metal Deck 2nd Fl @ Zone 7	3AUG06	25AUG06	3AUG06	25AUG06	0
7000110	22	22	0	Place Metal Deck on Roof @ Zone 7	28AUG06	27SEP06	28AUG06	27SEP06	0
7000120	5	5	0	Set HVAC Roof Equipment @ Zone 7	28SEP06	4OCT06	28NOV06	4DEC06	42
7000130	20	20	0	Rough MEP at Roof @ Zone 7	6NOV06	4DEC06	6NOV06	4DEC06	0
7000140	20	20	0	Install Roof @ Zone 7	5DEC06	3JAN07	5DEC06	3JAN07	0
7000150	27	27	0	Rough MEP 2nd Fl @ Zone 7	28SEP06	3NOV06	28SEP06	3NOV06	0
7000160	27	27	0	Place Concrete 2nd Fl @ Zone 7	6NOV06	13DEC06	6DEC06	15JAN07	21
7000170	13	13	0	SOPF 1st Fl @ Zone 7	14DEC06	3JAN07	16JAN07	1FEB07	21
7000180	8	8	0	SOPF 2nd Fl @ Roof @ Zone 7	4JAN07	15JAN07	2FEB07	13FEB07	21
7000190	17	17	0	Detail Edges & Shoot Shear Studs 2nd Fl @ Zone 7	28AUG06	20SEP06	7NOV06	30NOV06	50
7000200	22	22	0	Detail Edges Roof @ Zone 7	28SEP06	27OCT06	1DEC06	3JAN07	45
8000010	15	15	0	Fill Piles @ Cc Zone 8	14MAR06	3APR06	28MAR06	17APR06	10
8000020	19	19	0	Build Pile Caps @ Cc Zone 8	4APR06	28APR06	18APR06	12MAY06	10
8000030	25	25	0	Build Grade Beams @ Cc Zone 8	1MAY06	5JUN06	15MAY06	19JUN06	10
8000040	22	22	0	Install UG Plumbing @ Cc Zone 8	8MAY06	7JUN06	22MAY06	21JUN06	10

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ACTIVITY ID	ORIG REM DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
8000030	32	32	0	Install Underslab Electrical @ Cc Zone 8	8MAY06	21JUN06	22MAY06	6JUL06	10
8000060	12	12	0	Backfill & Install Vapor Barrier @ Cc Zone 8	22JUN06	10JUL06	7JUL06	24JUL06	10
8000070	12	12	0	Build Foundation Walls @ Cc Zone 8	11JUL06	26JUL06	25JUL06	9AUG06	10
8000080	14	14	0	Place SOG @ Cc Zone 8	27JUL06	15AUG06	10AUG06	29AUG06	10
8000090	15	15	0	Erect Steel @ Zone 8	10AUG06	30AUG06	10AUG06	30AUG06	0
8000100	10	10	0	Place Metal Deck 2nd Fl @ Zone 8	31AUG06	14SEP06	26SEP06	9OCT06	17
8000110	15	15	0	Place Metal Deck on Roof @ Zone 8	15SEP06	5OCT06	10OCT06	30OCT06	17
8000120	5	5	0	Set HVAC Roof Equipment @ Zone 8	6OCT06	12OCT06	13DEC06	19DEC06	47
8000130	15	15	0	Rough MEP at Roof @ Zone 8	3NOV06	24NOV06	29NOV06	19DEC06	17
8000140	30	30	0	Install Roof @ Zone 8	27NOV06	9JAN07	20DEC06	1FEB07	17
8000150	20	20	0	Rough MEP 2nd Fl @ Zone 8	6OCT06	2NOV06	31OCT06	28NOV06	17
8000160	15	15	0	Place Concrete 2nd Fl @ Zone 8	3NOV06	2NOV06	23JAN07	22JAN07	39
8000170	8	8	0	SOFP 1st Fl @ Zone 8	27NOV06	6DEC06	23JAN07	1FEB07	39
8000180	8	8	0	SOFP 2nd Fl @ Zone 8	10JAN07	19JAN07	2FEB07	13FEB07	17
8000190	10	10	0	Detail Edges & Shoot Shear Studs 2nd Fl @ Zone 8	15SEP06	28SEP06	15DEC06	29DEC06	64
8000200	15	15	0	Detail Edges Roof @ Zone 8	6OCT06	26OCT06	12JAN07	1FEB07	67
9000010	22	22	0	Fill Piles @ Cc Zone 9	14FEB06	16MAR06	16FEB06	20MAR06	2
9000020	30	30	0	Build Pile Caps @ Cc Zone 9	17MAR06	27APR06	21MAR06	1MAY06	2
9000030	40	40	0	Build Grade Beams @ Cc Zone 9	28APR06	23JUN06	2MAY06	27JUN06	2
9000040	25	25	0	Install UG Plumbing @ Cc Zone 9	5MAY06	30JUN06	5JUN06	10JUL06	20
9000050	30	30	0	Install Underslab Electrical @ Cc Zone 9	5MAY06	16JUN06	5JUN06	17JUL06	20
9000060	17	17	0	Backfill & Install Vapor Barrier @ Cc Zone 9	26JUN06	19JUL06	18JUL06	9AUG06	15
9000070	15	15	0	Build Foundation Walls @ Cc Zone 9	20AUG06	9AUG06	10AUG06	30AUG06	15
9000080	20	20	0	Place SOG @ Cc Zone 9	10AUG06	7SEP06	31AUG06	28SEP06	15
9000090	28	29	0	Erect Steel @ Zone 9	11OCT06	19OCT06	31AUG06	1OCT06	12
9000100	20	20	0	Place Metal Deck 2nd Fl @ Zone 9	31AUG06	7NOV06	27OCT06	24NOV06	12
9000110	20	20	0	Place Metal Deck on Roof @ Zone 9	8NOV06	6DEC06	27NOV06	22DEC06	12
9000120	5	5	0	Set HVAC Roof Equipment @ Zone 9	7DEC06	13DEC06	7JUN07	13JUN07	126
9000130	20	20	0	Rough MEP at Roof @ Zone 9	15JAN07	9FEB07	16MAY07	13JUN07	86
9000140	60	60	0	Install Roof @ Zone 9	12FEB07	17MAY07	14JUN07	7SEP07	86
9000150	25	25	0	Rough MEP 2nd Fl @ Zone 9	7DEC06	12JAN07	26DEC06	30JAN07	12
9000160	30	30	0	Place Concrete 2nd Fl @ Zone 9	15JAN07	9FEB07	31JAN07	14MAR07	12
9000170	15	15	0	SOFP 1st Fl @ Zone 9	27FEB07	19MAR07	11DEC08	2JAN09	456
9000180	10	10	0	SOFP 2nd Fl @ Zone 9	8MAY07	21MAY07	5JAN09	16JAN09	421
9000190	20	20	0	Detail Edges & Shoot Shear Studs 2nd Fl @ Zone 9	8NOV06	6DEC06	3JAN07	30JAN07	37
9000200	20	20	0	Detail Edges Roof @ Zone 9	7DEC06	5JAN07	10AUG07	7SEP07	171
10000010	22	22	0	Fill Piles @ Cc Zone 10	16FEB06	20MAR06	16FEB06	20MAR06	0
10000020	30	30	0	Build Pile Caps @ Cc Zone 10	21MAR06	1MAY06	21MAR06	1MAY06	0
10000030	40	40	0	Build Grade Beams @ Cc Zone 10	2MAY06	27JUN06	2MAY06	27JUN06	0
10000040	25	25	0	Install UG Plumbing @ Cc Zone 10	9MAY06	13JUN06	12JUN06	17JUL06	23
10000050	40	40	0	Install Underslab Electrical @ Cc Zone 10	9MAY06	5JUL06	12JUN06	7AUG06	23
10000060	17	17	0	Backfill & Install Vapor Barrier @ Cc Zone 10	6JUL06	28JUL06	8AUG06	30AUG06	23
10000070	15	15	0	Build Foundation Walls @ Cc Zone 10	31JUL06	18AUG06	31AUG06	21SEP06	23
10000080	20	20	0	Place SOG @ Cc Zone 10	21AUG06	18SEP06	22SEP06	19OCT06	23
10000090	25	25	0	Erect Steel @ Zone 10	22SEP06	26OCT06	22SEP06	26OCT06	0
10000100	20	20	0	Place Metal Deck 2nd Fl @ Zone 10	27OCT06	24NOV06	27OCT06	24NOV06	0
10000110	20	20	0	Place Metal Deck on Roof @ Zone 10	27NOV06	22DEC06	27NOV06	22DEC06	0
10000120	5	5	0	Set HVAC Roof Equipment @ Zone 10	26DEC06	2JAN07	7JUN07	13JUN07	114
10000130	20	20	0	Rough MEP at Roof @ Zone 10	31JAN07	28FEB07	16MAY07	13JUN07	74
10000140	60	60	0	Install Roof @ Zone 10	1MAR07	23MAY07	14JUN07	7SEP07	74
10000150	25	25	0	Rough MEP 2nd Fl @ Zone 10	26DEC06	30JAN07	26DEC06	30JAN07	0
10000160	30	30	0	Place Concrete 2nd Fl @ Zone 10	31JAN07	14MAR07	31JAN07	14MAR07	0
10000170	15	15	0	SOFP 1st Fl @ Zone 10	15MAR07	4APR07	11DEC08	2JAN09	444
10000180	10	10	0	SOFP 2nd Fl @ Zone 10	24MAY07	7JUN07	5JAN09	16JAN09	409
10000190	20	20	0	Detail Edges & Shoot Shear Studs 2nd Fl @ Zone 10	27NOV06	22DEC06	3JAN07	30JAN07	25
10000200	20	20	0	Detail Edges Roof @ Zone 10	26DEC06	23JAN07	10AUG07	7SEP07	159
11000010	19	19	0	Fill Piles @ Cc Zone 11	10MAR06	5APR06	21AUG06	15SEP06	114
11000020	24	24	0	Build Pile Caps @ Cc Zone 11	6APR06	9MAY06	28SEP06	19OCT06	114
11000030	30	30	0	Build Grade Beams @ Cc Zone 11	10MAY06	21JUN06	20OCT06	1DEC06	114
11000040	25	25	0	Install UG Plumbing @ Cc Zone 11	17MAY06	12JUN06	10SEP08	1OCT08	588
11000050	40	40	0	Install Underslab Electrical @ Cc Zone 11	17MAY06	13JUL06	10SEP08	4NOV08	588
11000060	15	15	0	Backfill & Install Vapor Barrier @ Cc Zone 11	14JUL06	3AUG06	5NOV08	25NOV08	588
11000070	20	20	0	Build Foundation Walls @ Cc Zone 11	4AUG06	31AUG06	26NOV08	24DEC08	588
11000080	15	15	0	Place SOG @ Cc Zone 11	15SEP06	22SEP06	26DEC08	16JAN09	588
11000090	12	12	0	Erect Steel @ Zone 11	27OCT06	13NOV06	27OCT06	13NOV06	0
11000100	15	15	0	Place Metal Deck 2nd Fl @ Zone 11	14NOV06	5DEC06	14NOV06	5DEC06	0
11000110	15	15	0	Place Metal Deck on Roof @ Zone 11	6DEC06	27DEC06	6DEC06	27DEC06	0

ACTIVITY ID	DUR	ORIG REM DUR	#	ACTIVITY DESCRIPTION	EARLY		LATE		TOTAL FLOAT
					START	FINISH	START	FINISH	
11000120	5	5	0	Set HVAC Roof Equipment @ Zone 11	28DEC06	41AN07	16FEB07	23FEB07	35
11000130	20	20	0	Rough MEP at Roof @ Zone 11	26JAN07	23FEB07	26JAN07	23FEB07	0
11000140	25	25	0	Install Roof @ Zone 11	26FEB07	26FEB07	26FEB07	30MAR07	0
11000150	20	20	0	Rough MEP 2nd Fl @ Zone 11	28DEC06	25JAN07	28DEC06	25JAN07	0
11000160	15	15	0	Place Concrete 2nd Fl @ Zone 11	26JAN07	15FEB07	16FEB07	9MAR07	15
11000170	15	15	0	SOFP 1st Fl @ Zone 11	16FEB07	9MAR07	12MAR07	30MAR07	15
11000180	15	15	0	SOFP 2nd Fl & Roof @ Zone 11	2APR07	20APR07	2APR07	20APR07	0
11000190	15	15	0	Detail Edges 6Shoof Shear Studs 2nd Fl @ Zone 11	6DEC06	27DEC06	26JAN07	15FEB07	35
11000200	15	15	0	Detail Edges Roof @ Zone 11	28DEC06	19JAN07	12MAR07	30MAR07	50
12000020	9	9	0	Fill Piles @ Cc Zone 12	24APR06	3MAY06	14SEP06	23SEP06	100
12000030	11	11	0	Build Pile Caps @ Cc Zone 12	48AY06	16MAY06	26SEP06	6OCT06	100
12000040	12	12	0	Install UG Plumbing @ Cc Zone 12	17MAY06	1JUN06	9OCT06	23OCT06	100
12000050	15	15	0	Install UG Plumbing @ Cc Zone 12	24MAY06	9JUN06	16OCT06	31OCT06	100
12000060	9	9	0	Install Underlab Electrical @ Cc Zone 12	4MAY06	14JUN06	16OCT06	3NOV06	100
12000070	9	9	0	Backfill & Install Vapor Barrier @ Cc Zone 12	15JUN06	27JUN06	6NOV06	16NOV06	100
12000080	10	10	0	Place SOG @ Cc Zone 12	28JUN06	12JUL06	17NOV06	1DEC06	100
12000090	5	5	0	Erect Steel @ Zone 12	4OCT06	10OCT06	4DEC06	8DEC06	100
12000100	12	12	0	Place Metal Deck 2nd Fl @ Zone 12	11OCT06	26OCT06	11DEC06	27DEC06	42
12000110	15	15	0	Place Metal Deck on Roof @ Zone 12	27OCT06	16NOV06	28DEC06	18JAN07	42
12000120	5	5	0	Set HVAC Roof Equipment @ Zone 12	17NOV06	24NOV06	9FEB07	15FEB07	57
12000130	10	10	0	Rough MEP at Roof @ Zone 12	4DEC06	15DEC06	2FEB07	15FEB07	42
12000140	20	20	0	Install Roof @ Zone 12	18DEC06	16JAN07	16FEB07	16MAR07	42
12000150	10	10	0	Rough MEP 2nd Fl @ Zone 12	17NOV06	1DEC06	19JAN07	1FEB07	42
12000160	12	12	0	Place Concrete 2nd Fl @ Zone 12	4DEC06	19DEC06	16FEB07	6MAR07	52
12000170	8	8	0	SOFP 1st Fl @ Zone 12	20DEC06	2JAN07	7MAR07	16MAR07	52
12000180	8	8	0	SOFP 2nd Fl & Roof @ Zone 12	17JAN07	26JAN07	13MAR07	29MAR07	42
12000190	12	12	0	Detail Edges 6Shoof Shear Studs 2nd Fl @ Zone 12	27OCT06	13NOV06	31JAN07	15FEB07	45
12000200	15	15	0	Detail Edges Roof @ Zone 12	17NOV06	8DEC06	26FEB07	16MAR07	67
13000010	16	16	0	Fill Piles @ Cc Zone 13	11APR06	28AY06	18JAN07	8FEB07	195
13000020	21	21	0	Build Pile Caps @ Cc Zone 13	3MAY06	1JUN06	9FEB07	12MAR07	196
13000030	27	27	0	Install UG Plumbing @ Cc Zone 13	2JUN06	11OUL06	13MAR07	18APR07	195
13000040	12	12	0	Install UG Plumbing @ Cc Zone 13	9JUN06	26JUN06	20MAR07	4APR07	195
13000050	27	27	0	Backfill & Install Vapor Barrier @ Cc Zone 13	9JUN06	18JUL06	20MAR07	25APR07	196
13000060	12	12	0	Place SOG @ Cc Zone 13	19JUL06	3AUG06	26APR07	11MAY07	195
13000070	10	10	0	Erect Steel @ Zone 13	4AUG06	21AUG06	14MAY07	30MAY07	195
13000080	12	12	0	Place Metal Deck 2nd Fl @ Zone 13	4NOV06	28NOV06	31MAY07	13JUN07	137
13000090	15	15	0	Place Metal Deck on Roof @ Zone 13	29NOV06	12DEC06	14JUN07	27JUN07	137
13000100	15	15	0	Set HVAC Roof Equipment @ Zone 13	13DEC06	4JAN07	28JUN07	19JUL07	137
13000110	5	5	0	Rough MEP at Roof @ Zone 13	5JAN07	11JAN07	10AUG07	16AUG07	152
13000120	10	10	0	Install Roof @ Zone 13	19JAN07	1FEB07	3AUG07	16AUG07	137
13000130	15	15	0	Place Concrete 2nd Fl @ Zone 13	2FEB07	23FEB07	17AUG07	7SEP07	137
13000140	15	15	0	SOFP 1st Fl @ Zone 13	5JAN07	19JAN07	20JUL07	2AUG07	137
13000150	7	7	0	SOFP 2nd Fl & Roof @ Zone 13	19JAN07	29JAN07	22JAN08	30JAN08	295
13000160	8	8	0	Detail Edges 6Shoof Shear Studs 2nd Fl @ Zone 13	30JAN07	9FEB07	31JAN08	11FEB08	255
13000170	8	8	0	Detail Edges Roof @ Zone 13	26FEB07	7MARB07	12FEB08	22FEB08	245
13000180	8	8	0	Detail Edges Roof @ Zone 13	26FEB07	27DEC06	34MARB07	16AUG07	167
13000190	10	10	0	Fill Piles @ Cc Zone 13	5JAN07	25JAN07	17AUG07	7SEP07	157
13000200	15	15	0	Build Pile Caps @ Cc Zone 13	28MAR06	13APR06	10AUG07	29AUG07	349
14000010	13	13	0	Build Pile Caps @ Cc Zone 14	8MAY06	5JUN06	21SEP07	20SEP07	349
14000020	16	16	0	Build Grade Beams @ Cc Zone 14	14APR06	6JUN06	21SEP07	19OCT07	349
14000030	21	21	0	Install UG Plumbing @ Cc Zone 14	8MAY06	31MAY06	10OCT08	27OCT08	612
14000040	12	12	0	Install Underlab Electrical @ Cc Zone 14	15MAY06	14JUN06	10OCT08	10NOV08	612
14000050	22	22	0	Backfill & Install Vapor Barrier @ Cc Zone 14	15JUN06	30JUN06	11NOV08	26NOV08	612
14000060	12	12	0	Place SOG @ Cc Zone 14	3JUL06	19JUL06	11NOV08	15DEC08	612
14000070	7	7	0	Erect Steel @ Zone 14	29NOV06	7DEC06	16DEC08	24DEC08	520
14000080	8	8	0	Fill Piles @ Cc Zone 15	22MAR06	12APR06	11SEP07	24DEC08	520
15000010	8	8	0	Build Pile Caps @ Cc Zone 15	3APR06	31MAR06	21SEP07	20SEP07	374
15000020	8	8	0	Build Pile Caps @ Cc Zone 15	3APR06	12APR06	21SEP07	20SEP07	374
15000030	13	13	0	Install UG Plumbing @ Cc Zone 15	13APR06	3MAY06	3OCT07	19OCT07	643
15000040	10	10	0	Install UG Plumbing @ Cc Zone 15	20APR06	3MAY06	3OCT07	19OCT07	643
15000050	20	20	0	Backfill & Install Vapor Barrier @ Cc Zone 15	20APR06	17MAY06	3OCT07	12NOV08	643
15000060	9	9	0	Place SOG @ Cc Zone 15	18MAY06	31MAY06	28NOV08	10DEC08	643
15000070	10	10	0	Erect Steel @ Cc Zone 15	1JUN06	14JUN06	11DEC08	24DEC08	643
15000080	10	10	0	Fill Piles @ Cc Zone 16	8DEC06	21DEC06	26DEC08	9JAN09	520
15000090	10	10	0	Build Pile Caps @ Cc Zone 16	7APR06	21APR06	23AUG06	6SEP06	96
16000010	10	10	0	Build Pile Caps @ Cc Zone 16	21APR06	8MAY06	7SEP06	22SEP06	96
16000020	12	12	0	Build Grade Beams @ Cc Zone 16	9MAY06	25MAY06	25SEP06	12OCT06	96
16000030	14	14	0	Install UG Plumbing @ Cc Zone 16	16MAY06	1JUN06	2OCT06	17OCT06	96

ACTIVITY ID	ORIG DUR	REM DUR	\$	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
16000050	17	17	0	Install Under-slab Electrical @ Cc Zone 16	16MAR06	8JUN06	20COT6	24OCT06	96
16000060	12	12	0	Backfill & Install Vapor Barrier @ Cc Zone 16	9JUN06	26JUN06	25OCT06	9NOV06	96
16000070	17	17	0	Build Foundation Walls @ Cc Zone 16	27JUN06	20JUL06	10NOV06	5DEC06	96
16000080	12	12	0	Place SOG @ Cc Zone 16	21JUL06	7AUG06	6DEC06	21DEC06	96
16000090	5	5	0	Erect Steel @ Zone 16	22DEC06	29DEC06	12JAN09	16JAN09	520
EM101000	94	94	0	Prepare Package EM-10: Hydrant Fueling	24JAN05	6JUN05	25APR05	6SEP05	64
EM1010020	10	10	0	TCCO Prep Bid Pkg Asbestos & Demo	21JAN05	3FEB05	5AUG05	18AUG05	137
EM1010030	5	5	0	A/E Appr Scope Asbestos & Demo	4FEB05	10FEB05	19AUG05	25AUG05	137
EM1010040	0	0	0	BID PKGE SENT ASBESTOS & DEMO	10FEB05	10FEB05	26AUG05	29AUG05	137
EM1010050	15	15	0	Subs Prep Bids Asbestos & Demo	4MAR05	4MAR05	16SEP05	16SEP05	137
EM1010060	0	0	0	SUBMIT BIDS ASBESTOS & DEMO	4MAR05	1APR05	15SEP05	16SEP05	137
EM1010070	20	20	0	Review Bids Asbestos & Demo	7MAR05	1APR05	15SEP05	14OCT05	137
EM1010080	0	0	0	AWARD ASBESTOS & DEMO	1APR05	1APR05	28JUL05	29JUL05	82
EM1010100	2	2	0	TCCO Prep Bid Pkg Site Fence	5APR05	6APR05	1AUG05	2AUG05	82
EM1010150	2	2	0	BID PKGE SENT SITE FENCE	7APR05	11APR05	3AUG05	2APR05	82
EM1010160	0	0	0	Subs Prep Bids Site Fence	7APR05	11APR05	3AUG05	5AUG05	82
EM1010170	3	3	0	SUBMIT BIDS SITE FENCE	7APR05	11APR05	3AUG05	5AUG05	82
EM1010180	0	0	0	Review Bids Site Fence	9MAY05	13MAY05	4AUG05	10AUG05	61
EM1010190	4	4	0	AWARD SITE FENCE	13MAY05	13MAY05	17AUG05	17AUG05	61
EM1010200	0	0	0	TCCO/Deliver Site Fence	16APR05	29APR05	12AUG05	25AUG05	82
EM1010210	10	10	0	Procure/Prep Bid Pkg Site Trailer	18APR05	29APR05	14JUL05	27JUL05	61
EM1010220	5	5	0	A/E Appr Scope Site Trailer	2MAR05	6MAR05	28JUL05	3AUG05	61
EM1010270	0	0	0	BID PKGE SENT SITE TRAILER	6MAR05	11APR05	3AUG05	3AUG05	61
EM1010280	5	5	0	Subs Prep Bids Site Trailer	9MAY05	13MAY05	4AUG05	10AUG05	61
EM1010290	5	5	0	SUBMIT BIDS SITE TRAILER	13MAY05	13MAY05	17AUG05	17AUG05	61
EM1010300	0	0	0	Review Bids Site Trailer	16MAY05	20MAY05	11AUG05	17AUG05	61
EM1010310	5	5	0	AWARD SITE TRAILER	20MAY05	20MAY05	17AUG05	17AUG05	61
EM1010320	0	0	0	Submit Site Trailer Shop Drawgs	23MAY05	5OCT05	18AUG05	31AUG06	61
EM1010330	95	95	0	Appr Site Trailer Shop Drawgs	31AUG05	26OCT05	28NOV05	15JAN06	61
EM1010340	45	45	0	Proc/Del Site Trailer	13OCT05	15DEC05	11JAN06	15MAR06	61
EM1010350	10	10	0	TCCO Issue Addendum Site Prep	19MAY05	2JUN05	16JUN05	29JUN05	19
EM1010370	10	10	0	Revise Bid Per Addn Site Prep	3JUN05	16JUN05	30JUN05	14JUL05	19
EM1010380	15	15	0	TCCO Prep Bid Pkg Site Prep	29FEB05	15MAR05	26APR05	10MAY05	37
EM1010390	5	5	0	A/E Appr Scope Site Prep	21MAR05	25MAR05	11MAY05	17MAY05	37
EM1010400	0	0	0	BID PKGE SENT SITE PREP	25MAR05	25MAR05	17MAY05	17MAY05	37
EM1010410	20	20	0	Subs Prep Bids Site Prep	28MAR05	22APR05	19MAY05	15JUN05	37
EM1010420	0	0	0	SUBMIT BIDS SITE PREP	22APR05	22APR05	15JUN05	15JUN05	37
EM1010430	12	12	0	Review Bids Site Prep	17JUN05	5JUL05	15JUL05	1AUG05	19
EM1010440	0	0	0	AWARD SITE PREP	20JUL05	20JUL05	15JUL05	1AUG05	8
EM1010450	90	90	0	Submit Site Drainage Shop Drawgs	21JUL05	25NOV05	2AUG05	29DEC05	8
EM1010460	40	40	0	Appr Site Drainage Shop Drawgs	21OCT05	16DEC05	2NOV05	29DEC05	8
EM1010470	60	60	0	Coordinate & Fabricate Pre-Cast Site Drainage	4NOV05	31JAN06	16AUG06	8NOV06	197
EM1010480	5	5	0	TCCO Issue Addendum Departures Roadway	21OCT05	27OCT05	21FEB07	27FEB07	337
EM1010490	5	5	0	Revise Bid Per Addn Departures Roadway	28OCT05	3NOV05	28FEB07	6MAR07	337
EM1010500	5	5	0	TCCO Prep Bid Pkg Departures Roadway	25AUG05	8SEP05	9JAN07	22JAN07	347
EM1010510	10	10	0	A/E Appr Scope Departures Roadway	9SEP05	15SEP05	23JAN07	29JAN07	347
EM1010520	0	0	0	BID PKGE SENT DEPARTURES ROADWAY	15SEP05	15SEP05	29JAN07	29JAN07	347
EM1010530	15	15	0	Subs Prep Bids Departures Roadway	6OCT05	30JAN07	20FEB07	20FEB07	347
EM1010540	0	0	0	SUBMIT BIDS DEPARTURES ROADWAY	6OCT05	30JAN07	20FEB07	20FEB07	347
EM1010550	10	10	0	Review Bids Departures Roadway	4NOV05	17NOV05	20MAR07	20MAR07	337
EM1010560	0	0	0	AWARD DEPARTURES ROADWAY	17NOV05	17NOV05	20MAR07	20MAR07	337
EM1010570	90	90	0	Submit Roadway Pre-Cast Shop Drawgs	18NOV05	29MAR06	21MAR07	26JUL07	337
EM1010580	90	90	0	Appr Roadway Pre-Cast Shop Drawgs	19DEC05	26APR06	18APR07	23AUG07	337
EM1010590	110	110	0	Coordinate & Fabricate Roadway Pre-Cast	18JAN06	22JUN06	16AUG07	19OCT07	337
EM1010600	10	10	0	TCCO Issue Addendum Landside Roadways	21FEB06	6MAR06	12FEB07	27FEB07	249
EM1010610	10	10	0	Revise Bid Per Addn Landside Roadways	28FEB06	13MAR06	21FEB07	6MAR07	249
EM1010620	10	10	0	TCCO Prep Bid Pkg Landside Roadways	9JAN06	20JAN06	2JAN07	15JAN07	249
EM1010630	10	10	0	A/E Appr Scope Landside Roadways	23JAN06	3FEB06	16JAN07	29JAN07	249
EM1010640	0	0	0	BID PKGE SENT LANDSIDE ROADWAYS	3FEB06	17FEB06	30JAN07	12FEB07	249
EM1010650	10	10	0	Subs Prep Bids Landside Roadways	6FEB06	17FEB06	30JAN07	12FEB07	249
EM1010660	0	0	0	SUBMIT BIDS LANDSIDE ROADWAYS	14MAR06	27MAR06	7MAR07	20MAR07	249
EM1010670	10	10	0	Review Bids Landside Roadways	27MAR06	27MAR06	21MAR07	26JUL07	249
EM1010680	0	0	0	AWARD LANDSIDE ROADWAYS	28MAR06	2AUG06	21APR07	23AUG07	249
EM1010690	90	90	0	Submit Landside Roadways Shop Drawgs	25APR06	30AUG06	18APR07	23AUG07	249
EM1010700	90	90	0	Appr Landside Roadways Shop Drawgs	23MAY06	26OCT06	16MAY07	19OCT07	249
EM1010710	110	110	0	Coordinate & Fabricate Landside Roadways Matls					249

REPORT DATE 21OCT05 RUN NO. 4547  
16:53

START DATE 16JUN04 FIN DATE 16JAN09

1-yr Baseline Schedule Report - Sort by Act ID

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ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
EW1010720	5	5	0	TCCO Issue Addendum Exterior Lighting	10APR06	14APR06	9NOV06	15NOV06	150
EW1010730	5	5	0	Revise Bid Per Addn Exterior Lighting	17APR06	21APR06	16NOV06	22NOV06	150
EW1010740	10	10	0	TCCO Prep Bid Pkge Exterior Lighting	27FEB06*	10MAR06	28SEP06	11OCT06	150
EW1010750	5	5	0	A/E Appr Scope Exterior Lighting	13MAR06	17MAR06	12OCT06	18OCT06	150
EW1010760	0	0	0	BID PKGE SENT EXTERIOR LIGHTING	17APR06	17APR06	18OCT06	18OCT06	150
EW1010770	15	15	0	Subs Prep Bids Exterior Lighting	20MAR06	7APR06	19OCT06	8NOV06	150
EW1010780	0	0	0	SUBMIT BIDS EXTERIOR LIGHTING	7APR06	7APR06	8NOV06	8NOV06	150
EW1010790	10	10	0	Review Bids Exterior Lighting	24APR06	5MAY06	24NOV06	7DEC06	150
EW1010800	0	0	0	AWARD EXTERIOR LIGHTING	5MAY06	5MAY06	24NOV06	7DEC06	150
EW1010810	40	40	0	Submit Exterior Lighting Shop Drwgs	8MAY06	3JUL06	8DEC06	5FEB07	150
EW1010820	40	40	0	Appr Exterior Lighting Shop Drwgs	30MAY06	25JUL06	2JAN07	27FEB07	150
EW1010830	100	100	0	Coordinate & Fabricate Exterior Lighting	26JUL06	14DEC06	28FEB07	19JUL07	150
EW1010840	5	5	0	TCCO Issue Addendum Exterior Signage	10APR06	14APR06	9JAN07	15JAN07	190
EW1010850	5	5	0	Revise Bid Per Addn Exterior Signage	17APR06	21APR06	16JAN07	22JAN07	190
EW1010860	10	10	0	TCCO Prep Bid Pkge Exterior Signage	27FEB06*	10MAR06	24NOV06	7DEC06	190
EW1010870	5	5	0	A/E Appr Scope Exterior Signage	13MAR06	17MAR06	8DEC06	14DEC06	190
EW1010880	0	0	0	BID PKGE SENT EXTERIOR SIGNAGE	7APR06	7APR06	15DEC06	8JAN07	190
EW1010890	15	15	0	Subs Prep Bids Exterior Signage	20APR06	5MAY06	23JAN07	5FEB07	190
EW1010900	0	0	0	SUBMIT BIDS EXTERIOR SIGNAGE	24APR06	5MAY06	23JAN07	5FEB07	190
EW1010910	10	10	0	Review Bids Exterior Signage	8MAY06	5MAY06	6FEB07	20MAR07	190
EW1010920	0	0	0	AWARD EXTERIOR SIGNAGE	20MAY06	25JUL06	28FEB07	24APR07	190
EW1010930	40	40	0	Appr Exterior Signage Shop Drwgs	26JUL06	18OCT06	25APR07	19JUL07	190
EW1010940	60	60	0	Coordinate & Fabricate Exterior Signage	22MAY06	26MAY06	4APR07	10APR07	220
EW1010950	5	5	0	TCCO Issue Addendum Landscaping	30MAY06	5JUN06	11APR07	17APR07	220
EW1010960	10	10	0	Revise Bid Per Addn Landscaping	10APR06*	21APR06	21FEB07	6MAR07	220
EW1010970	5	5	0	A/E Appr Scope Landscaping	24APR06	28APR06	7MAR07	13MAR07	220
EW1010980	0	0	0	BID PKGE SENT LANDSCAPING	1MAY06	19MAY06	14MAR07	3APR07	220
EW1010990	15	15	0	Subs Prep Bids Landscaping	6JUN06	19MAY06	18APR07	18APR07	220
EW1011000	0	0	0	SUBMIT BIDS LANDSCAPING	19JUN06	19JUN06	18APR07	18APR07	220
EW1011010	10	10	0	Review Bids Landscaping	20JUN06	19JUN06	2MAY07	30MAY07	220
EW1011020	0	0	0	AWARD LANDSCAPING	12JUL06	8AUG06	23MAY07	20JUN07	220
EW1011030	20	20	0	Appr Landscaping Shop Drwgs	9AUG06	6SEP06	21JUN07	19JUL07	220
EW1011040	20	20	0	Procure Landscaping Mats	26OCT05	8NOV05	20DEC05	4JAN06	38
EW1011050	10	10	0	TCCO Issue Addendum Site Utilities	2NOV05	15NOV05	28DEC05	11JAN06	38
EW1011060	0	0	0	Revise Bid Per Addn Site Utilities	14SEP05	27SEP05	7NOV05	18NOV05	38
EW1011070	10	10	0	TCCO Prep Bid Pkge Site Utilities	28SEP05	4OCT05	21NOV05	28NOV05	38
EW1011080	5	5	0	A/E Appr Scope Site Utilities	5OCT05	25OCT05	29NOV05	19DEC05	38
EW1011090	15	15	0	BID PKGE SENT SITE UTILITIES	16NOV05	30NOV05	12JAN06	25JAN06	38
EW1011100	0	0	0	Subs Prep Bids Site Utilities	1DEC05	13JAN06	26JAN06	25JAN06	38
EW1011110	0	0	0	SUBMIT BIDS SITE UTILITIES	22DEC05	17FEB06	16FEB06	9MAR06	38
EW1011120	40	40	0	Appr Site Utilities Shop Drwgs	16JAN06	13MAR06	10MAR06	4MAY06	38
EW1011130	40	40	0	Coordinate & Fabricate Pipe for Site Drainage	5DEC05	12APR06	14SEP06	22JAN07	197
EW1011140	90	90	0	TCCO Issue Addendum Pavement	23NOV05	7DEC05	23JAN07	5FEB07	294
EW1011150	10	10	0	Revise Bid Per Addn Pavement	1DEC05	14DEC05	30JAN07	12FEB07	294
EW1011160	10	10	0	TCCO Prep Bid Pkge Pavement	12OCT05	25OCT05	8DEC06	21DEC06	294
EW1011170	5	5	0	A/E Appr Scope Pavement	26OCT05	1NOV05	22DEC06	29DEC06	294
EW1011180	0	0	0	BID PKGE SENT PAVEMENT	2NOV05	22NOV05	2JAN07	22JAN07	294
EW1011190	15	15	0	Subs Prep Bids Pavement	22NOV05	22NOV05	29DEC05	22JAN07	294
EW1011200	0	0	0	SUBMIT BIDS PAVEMENT	15DEC05	29DEC05	13FEB07	27FEB07	294
EW1011210	10	10	0	Review Bids Pavement	30DEC05	27JAN06	28FEB07	27MAR07	294
EW1011220	0	0	0	AWARD PAVEMENT	23JAN06	17FEB06	21MAY06	17APR07	294
EW1011230	20	20	0	Appr Pavement Shop Drwgs	4APR06	17APR06	24NOV06	7DEC06	164
EW1011240	10	10	0	TCCO Issue Addendum External Works	11FEB06*	24APR06	1DEC06	14DEC06	164
EW1011250	10	10	0	Revise Bid Per Addn External Works	7MAR06	13MAR06	12OCT06	25OCT06	164
EW1011260	5	5	0	TCCO Prep Bid Pkge External Works	13MAR06	13MAR06	26OCT06	1NOV06	164
EW1011270	0	0	0	A/E Appr Scope External Works	14MAR06	3APR06	2NOV06	22NOV06	164
EW1011280	15	15	0	BID PKGE SENT EXTERNAL WORKS	14MAR06	3APR06	2NOV06	22NOV06	164
EW1011290	0	0	0	Subs Prep Bids EXTERNAL WORKS	3APR06	3APR06	2NOV06	22NOV06	164
EW1011300	20	20	0	SUBMIT BIDS EXTERNAL WORKS	14MAR06	3APR06	2NOV06	22NOV06	164
EW1011310	10	10	0	Review Bids EXTERNAL WORKS	14MAR06	3APR06	2NOV06	22NOV06	164
EW1011320	10	10	0	Appr Pavement Shop Drwgs	14MAR06	3APR06	2NOV06	22NOV06	164
EW1011330	10	10	0	TCCO Issue Addendum External Works	14MAR06	3APR06	2NOV06	22NOV06	164
EW1011340	10	10	0	Revise Bid Per Addn External Works	14MAR06	3APR06	2NOV06	22NOV06	164
EW1011350	5	5	0	TCCO Prep Bid Pkge External Works	14MAR06	3APR06	2NOV06	22NOV06	164
EW1011360	0	0	0	A/E Appr Scope External Works	14MAR06	3APR06	2NOV06	22NOV06	164
EW1011370	15	15	0	BID PKGE SENT EXTERNAL WORKS	14MAR06	3APR06	2NOV06	22NOV06	164
EW1011380	0	0	0	Subs Prep Bids EXTERNAL WORKS	14MAR06	3APR06	2NOV06	22NOV06	164
EW1011390	0	0	0	SUBMIT BIDS EXTERNAL WORKS	14MAR06	3APR06	2NOV06	22NOV06	164

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ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
EW101390	10	10	0	Review Bids External Works	25APR06	8MAY06	15DEC06	29DEC06	164
EW101400	0	0	0	AWARD EXTERNAL WORKS	8MAY06	8MAY06	15DEC06	29DEC06	164
EW101410	30	30	0	Submit External Works Shop Drawgs	9MAY06	20JUN06	2JAN07	12FEB07	164
EW101420	20	20	0	Appr External Works Shop Drawgs	14JUN06	12JUL06	6FEB07	6MAR07	164
EW101430	30	30	0	Coordinate & Fabricate External Works Matls	13JUL06	23AUG06	7MAR07	17APR07	164
EW101500	0	0	0	SUBMIT TAA EW-10: Hydrant Fueling	1APR05	1JUL05	2AUG05	7DEC05	8
EW101650	90	90	0	Submit Utility Removal/Relocation Shop Drawgs	21JUL05	25NOV05	2NOV05	29DEC05	8
EW101660	40	40	0	Appr Utility Removal/Relocation Shop Drawgs	21OCT05	16DEC05	2NOV05	7DEC05	8
EW101770	90	90	0	Submit Site Utilities Shop Drawgs	21JUL05	25NOV05	2AUG05	29DEC05	8
EW101780	40	40	0	Appr Site Utilities Shop Drawgs	21OCT05	16DEC05	2NOV05	7DEC05	8
EW101790	60	60	0	Coordinate & Fabricate Wire for New Skv Elect	4NOV05	31JAN06	21APR06	17JUL06	116
EW101800	5	5	0	TCCo Issue Addendum Hydrant Fueling	7OCT05	13OCT05	27JAN06	2FEB06	77
EW101810	5	5	0	Revise Bid Per Adhn Hydrant Fueling	14OCT05	20OCT05	3FEB06	9FEB06	77
EW101820	10	10	0	TCCo Prep Bid Pkge Hydrant Fueling	25AUG05	8SEP05	14DEC05	28DEC05	77
EW101830	5	5	0	A/E Appr Scope Hydrant Fueling	9SEP05	15SEP05	29DEC05	5JAN06	77
EW101840	0	0	0	BID PKGE SENT HYDRANT FUELING	15SEP05	15SEP05	5JAN06	5JAN06	77
EW101850	15	15	0	Subs Prep Bids Hydrant Fueling	16SEP05	6OCT05	6JAN06	6JAN06	77
EW101860	0	0	0	SUBMIT BIDS HYDRANT FUELING	6OCT05	6OCT05	26JAN06	26JAN06	77
EW101870	5	5	0	Review Bids Hydrant Fueling	21OCT05	27OCT05	10FEB06	16FEB06	77
EW101880	0	0	0	AWARD HYDRANT FUELING	27OCT05	27OCT05	16FEB06	16FEB06	77
EW101890	90	90	0	Submit Hydrant Fueling Shop Drawgs	28OCT05	8MAR06	17FEB06	26JUN06	77
EW101900	90	90	0	Appr Hydrant Fueling Shop Drawgs	18NOV05	29MAR06	13MAR06	18JUL06	77
EW101910	120	120	0	Coordinate & Fabricate Hydrant Fueling Matls	4JAN06	22JUN06	24APR06	11OCT06	64
EW102000	49	49	0	PA Review TAA EW-10: Hydrant Fueling	1APR05	9JUN05	1JUL05	9SEP05	77
EW10210	0	0	0	PA ISSUE RIDER A TAA EW-10: Hydrant Fueling	10JUN05	12SEP05	12SEP05	9SEP05	64
EW10220	53	53	0	Design Team Inc Rider A TAA EW-10: Hydrant Fueling	10JUN05	24AUG05	14SEP05	23NOV05	64
EW10230	14	14	0	PA Rev RIDER A Comments TAA EW-10: Hydrant Fuel	25AUG05	14SEP05	25NOV05	14DEC05	64
EW10250	0	0	0	PA ISSUE NTP EW-10: Hydrant Fueling	28SEP05	28SEP05	20OCT05	29DEC05	64
EW1100	160	160	0	Prepare Package EW-1: Asbestos	19OCT04*	6JUN05	8MAR05	20OCT05	96
EW1150	0	0	0	SUBMIT TAA EW-1: Asbestos	27APR05	23MAY05	13SEP05	7OCT05	96
EW1200	19	19	0	PA Review TAA EW-1: Asbestos	27APR05	23MAY05	13SEP05	7OCT05	96
EW1210	0	0	0	PA ISSUE RIDER A TAA EW-1: Asbestos	24MAY05	10OCT05	10OCT05	20OCT05	96
EW1250	0	0	0	PA ISSUE NTP EW-1: Asbestos	31MAY05	31MAY05	14OCT05	8SEP05	96
EW2100	79	79	0	Prepare Package EW-2: Construction Security	24JAN05*	13MAY05	18MAY05	14OCT05	81
EW2150	0	0	0	SUBMIT TAA EW-2: Construction Security	1APR05	1APR05	27JUL05	8SEP05	81
EW2200	12	12	0	PA Review TAA EW-2: Construction Security	1APR05	18APR05	27JUL05	11AUG05	81
EW2210	0	0	0	PA ISSUE RIDER A TAA EW-2: Construction Security	19APR05	12AUG05	12AUG05	11AUG05	81
EW2220	10	10	0	Design Team Inc Rider A TAA EW-2: Construction Security	19APR05	2MAY05	12AUG05	25AUG05	81
EW2250	0	0	0	PA ISSUE NTP EW-2: Construction Security	2MAY05	2MAY05	12AUG05	25AUG05	81
EW3100	156	156	0	Prepare Package EW-3: Site Trailer	24JAN05*	15SEP05	21JUN05	25AUG05	104
EW3150	0	0	0	SUBMIT TAA EW-3: Site Trailer	2SEP05	22SEP05	1FEB06	31JAN06	104
EW3200	14	14	0	PA Review TAA EW-3: Site Trailer	2SEP05	22SEP05	1FEB06	21FEB06	104
EW3210	0	0	0	PA ISSUE RIDER A TAA EW-3: Site Trailer	23SEP05	23SEP05	22FEB06	21FEB06	104
EW3220	10	10	0	Design Team Inc Rider A TAA EW-3: Site Trailer	23SEP05	6OCT05	22FEB06	7MAR06	104
EW3250	0	0	0	PA ISSUE NTP EW-3: Site Trailer	23SEP05	14OCT05	22FEB06	15MAR06	104
EW4100	100	100	0	Prepare Package EW-4: Demolition	25OCT04*	17MAR05	22NOV04	14APR05	20
EW4150	0	0	0	SUBMIT TAA EW-4: Demolition	21JAN05	27MAY05	18FEB05	27JUN05	20
EW4200	90*	90*	0	PA Review TAA EW-4: Demolition	21JAN05	27MAY05	18FEB05	27JUN05	20
EW4210	0	0	0	PA ISSUE RIDER A TAA EW-4: Demolition	14MAR05	11APR05	11APR05	27JUN05	20
EW4220	35	35	0	Design Team Inc Rider A TAA EW-4: Demolition	14MAR05	29APR05	11APR05	27MAY05	20
EW4230	20	20	0	Design Team Inc Rider B TAA EW-4: Demolition	8JUL05	4AUG05	5AUG05	1SEP05	20
EW4240	47	47	0	PA ISSUE RIDER B TAA EW-4: Demolition	2MAY05	7JUL05	31MAY05	4AUG05	20
EW4250	0	0	0	PA ISSUE NTP EW-4: Demolition	16SEP05	16SEP05	30SEP05	14OCT05	20
EW4260	20	20	0	PA Review RIDER B Response TAA EW-4: Demolition	5AUG05	15SEP05	2SEP05	30SEP05	20
EW5100	130	130	0	Prepare Package EW-5: Site Preparation	19OCT04*	22APR05	29OCT04	4MAY05	8
EW5150	0	0	0	SUBMIT TAA EW-5: Site Preparation	28FEB05	22APR05	10MAR05	4MAY05	8
EW5200	40	40	0	PA Review TAA EW-5: Site Preparation	28FEB05	22APR05	10MAR05	4MAY05	8
EW5210	0	0	0	PA ISSUE RIDER A TAA EW-5: Site Preparation	15APR05	27APR05	27APR05	31MAY05	8
EW5220	24	24	0	Design Team Inc Rider A TAA EW-5: Site Preparation	15APR05	18MAY05	27APR05	31MAY05	8
EW5230	16	16	0	Design Team Inc Rider B TAA EW-5: Site Preparation	11JUL05	1AUG05	24AUG05	15SEP05	32
EW5240	35	35	0	PA ISSUE RIDER B TAA EW-5: Site Preparation	19MAY05	8JUL05	1JUN05	20JUL05	8
EW5250	0	0	0	PA ISSUE NTP EW-5: Site Preparation	19SEP05	19SEP05	2NOV05	2NOV05	32
EW5260	25	25	0	PA Review RIDER B Comments TAA EW-5: Site Prep	2AUG05	6SEP05	16SEP05	20OCT05	32
EW7100	150	150	0	Prepare Package EW-7: Landside Civil Works	24JAN05*	24AUG05	21DEC05	25JUL06	232
EW7150	0	0	0	SUBMIT TAA EW-7: Landside Civil Works	25AUG05	25AUG05	26JUL06	26JUL06	232
EW7200	29	29	0	PA Review TAA EW-7: Landside Civil Works	25AUG05	5OCT05	26JUL06	5SEP06	232
EW7210	0	0	0	PA ISSUE RIDER A EW-7: Landside Civil Works	6OCT05	6OCT05	6SEP06	6SEP06	232

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ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	START EARLY	START LATE	FINISH EARLY	FINISH LATE	TOTAL FLOAT
EW7220	11	11	0	Design Team Inc Rider A EW-7: Landside Civil	6OCT05	20OCT05	20SEP06	20SEP06	232
EW7250	0	0	0	PA ISSUE NTP EW-7: Landside Civil Works	3NOV05	3NOV05	4OCT06	4OCT06	232
EW8100	94	94	0	Prepare Pckge EW-8: Airside Civil/Term Interface	24JAN05*	6JUN05	18MAR05	29JUL05	38
EW8150	0	0	0	SUBMIT TAA EW-8: Airside Civil/Term Interface	1APR05	8JUN05	25MAY05	25MAY05	38
EW8200	48	48	0	PA Review TAA EW-8: Airside Civil/Term Interface	1APR05	8JUN05	25MAY05	25MAY05	38
EW8210	0	0	0	PA ISSUE RIDER A EW-8: Airside Civil/Term Inter	9JUN05	15AUG05	3AUG05	7OCT05	38
EW8220	47	47	0	Design Team Inc Rider A EW-8: Airside Civil/Term	9JUN05	15AUG05	3AUG05	7OCT05	38
EW8230	20	20	0	PA Review RIDER A Comments EW-8: Airside Civil	16AUG05	13SEP05	10OCT05	4NOV05	38
EW8250	0	0	0	PA ISSUE NTP EW-8: Airside Civil/Term Interface	27SEP05	27SEP05	7APR06	7APR06	134
EW9100	104	104	0	Prepare Package EW-9: External Works Finishing	27JUN05*	21NOV05	19APR06	14SEP06	206
EW9150	0	0	0	SUBMIT TAA EW-9: External Works Finishing	26SEP05	19JUL06	19JUL06	28AUG06	206
EW9200	29	29	0	PA Review TAA EW-9: External Works Finishing	26SEP05	3NOV05	19JUL06	28AUG06	206
EW9210	0	0	0	PA ISSUE RIDER A TAA EW-9: Ext Works Finishing	4NOV05	29AUG06	29AUG06	29AUG06	206
EW9220	12	12	0	Design Team Inc Rider A EW-9: Ext Works Finish	4NOV05	21NOV05	29AUG06	14SEP06	206
EW9250	0	0	0	PA ISSUE NTP EW-9: External Works Finishing	10JAN05*	17AUG05	4OCT06	4OCT06	206
T10100	155	155	0	Prepare Package T-10: Communication & IT	16MAY05	20MAY05	15JUN05	21JUN05	102
T101020	5	5	0	TCCO Prep Bid Pkg Piles	23MAY05	27MAY05	22JUN05	28JUN05	21
T101030	5	5	0	A/E Appr Scope Piles	31MAY05	6JUN05	29JUN05	6JUL05	21
T101040	5	5	0	BID PKGE SENT PILES	6JUN05	6JUN05	6JUL05	6JUL05	21
T101050	5	5	0	Subs Prep Bids Piles	7JUN05	13JUN05	7JUL05	13JUL05	21
T101060	0	0	0	SUBMIT BIDS PILES	13JUN05	13JUN05	13JUL05	13JUL05	21
T101070	5	5	0	Review Bids Piles	14JUN05	31OCT05	16AUG05	4JAN06	44
T101080	0	0	0	AWARD PILES	18JUL05	21NOV05	19SEP05	25JAN06	44
T101090	98	98	0	Submit Piles Shop Drwgs	15SEP05	6FEB06	17OCT05	9MAR06	22
T101100	90	90	0	Appr Piles Shop Drwgs	19AUG05	9SEP05	21SEP05	11OCT05	22
T101110	100	100	0	Coordinate & Fabricate Production Piles	12SEP05	30SEP05	12OCT05	1NOV05	22
T101120	15	15	0	TCCO Issue Addendum Foundations	16MAY05	27MAY05	2AUG05	15AUG05	54
T101130	15	15	0	Revise Bid Per Addn Foundations	31MAY05	6JUN05	16AUG05	22AUG05	54
T101140	10	10	0	TCCO Prep Bid Pkg Foundations	7JUN05	5JUL05	23AUG05	20SEP05	54
T101150	5	5	0	A/E Appr Scope Foundations	3OCT05	28OCT05	30NOV05	30NOV05	22
T101160	0	0	0	BID PKGE SENT FOUNDATIONS	28OCT05	28OCT05	30NOV05	30NOV05	22
T101170	20	20	0	Subs Prep Bids Foundations	31OCT05	25JAN06	1DEC05	27FEB06	22
T101180	0	0	0	SUBMIT BIDS FOUNDATIONS	29NOV05	23FEB06	30DEC05	27MAR06	22
T101190	20	20	0	Review Bids Foundations	14JUN05	31AUG05	14JUL05	30SEP05	21
T101200	0	0	0	AWARD FOUNDATIONS	10OCT05	21OCT05	8NOV05	21NOV05	21
T101210	60	60	0	Submit Foundations Shop Drwgs	24OCT05	4NOV05	22NOV05	6DEC05	21
T101220	56	56	0	Appr Foundations Shop Drwgs	26AUG05	9SEP05	27SEP05	10OCT05	21
T101230	56	56	0	Submit Piles Shop Drwgs for Load Test	12SEP05	16SEP05	11OCT05	10OCT05	21
T101240	10	10	0	TCCO Issue Addendum Underslab Electrical	19SEP05	7OCT05	18OCT05	7NOV05	21
T101250	10	10	0	Revise Bid Per Addn Underslab Electrical	7NOV05	18NOV05	7DEC05	20DEC05	21
T101260	10	10	0	TCCO Prep Bid Pkg Underslab Electrical	21NOV05	13FEB06	21DEC05	20DEC05	21
T101270	5	5	0	A/E Appr Scope Underslab Electrical	13DEC05	9MAR06	13JAN06	7APR06	21
T101280	0	0	0	Appr Underslab Electrical Shop Drwgs	18AUG05	15SEP05	19SEP05	14OCT05	21
T101290	15	15	0	Appr Load Test Piles Shop Drwgs	10OCT05	21OCT05	8NOV05	21NOV05	21
T101300	0	0	0	TCCO Issue Addendum Underslab Plumbing	24OCT05	4NOV05	22NOV05	6DEC05	21
T101310	10	10	0	Revise Bid Per Addn Underslab Plumbing	26AUG05	9SEP05	27SEP05	10OCT05	21
T101320	10	10	0	TCCO Prep Bid Pkg Underslab Plumbing	12SEP05	16SEP05	11OCT05	10OCT05	21
T101330	0	0	0	A/E Appr Scope Underslab Plumbing	19SEP05	7OCT05	18OCT05	7NOV05	21
T101340	60	60	0	BID PKGE SENT UNDERSLAB PLUMBING	7NOV05	18NOV05	7DEC05	20DEC05	21
T101350	60	60	0	Submit Underslab Electrical Shop Drwgs	21NOV05	13FEB06	21DEC05	20DEC05	21
T101360	20	20	0	Appr Underslab Electrical Shop Drwgs	13DEC05	9MAR06	13JAN06	7APR06	21
T101370	10	10	0	Appr Load Test Piles Shop Drwgs	18AUG05	15SEP05	19SEP05	14OCT05	21
T101380	10	10	0	TCCO Issue Addendum Underslab Plumbing	10OCT05	21OCT05	8NOV05	21NOV05	21
T101390	10	10	0	Revise Bid Per Addn Underslab Plumbing	24OCT05	4NOV05	22NOV05	6DEC05	21
T101390	5	5	0	TCCO Prep Bid Pkg Underslab Plumbing	26AUG05	9SEP05	27SEP05	10OCT05	21
T101390	5	5	0	A/E Appr Scope Underslab Plumbing	12SEP05	16SEP05	11OCT05	10OCT05	21
T101400	0	0	0	BID PKGE SENT UNDERSLAB PLUMBING	19SEP05	7OCT05	18OCT05	7NOV05	21
T101410	15	15	0	Submit Underslab Plumbing	7NOV05	18NOV05	7DEC05	20DEC05	21
T101420	0	0	0	Subs Prep Bids Underslab Plumbing	21NOV05	13FEB06	21DEC05	20DEC05	21
T101430	10	10	0	Review Bids Underslab Plumbing	13DEC05	9MAR06	13JAN06	7APR06	21
T101440	0	0	0	AWARD UNDERSLAB PLUMBING	18NOV05	15FEB06	21DEC05	20DEC05	21
T101450	60	60	0	Submit Underslab Plumbing Shop Drwgs	13DEC05	9MAR06	13JAN06	7APR06	21
T101460	60	60	0	Appr Underslab Plumbing Shop Drwgs	16SEP05	13OCT05	17OCT05	11NOV05	21
T101470	20	20	0	Coordinate & Fabricate Piles for Load Test	26AUG05	1SEP05	30SEP05	6OCT05	24
T101480	5	5	0	TCCO Issue Addendum Structural Steel	18AUG05	15SEP05	19SEP05	14OCT05	24
T101490	5	5	0	Revise Bid Per Addn Structural Steel	11JUL05	22JUL05	18AUG05	31AUG05	102
T101500	0	0	0	SUBMIT TAA T-10: Communication & IT	11JUL05	22JUL05	18AUG05	31AUG05	28
T101500	10	10	0	TCCO Prep Bid Pkg Structural Steel	25JUL05	29JUL05	1SEP05	8SEP05	28
T101510	5	5	0	A/E Appr Scope Structural Steel	25JUL05	29JUL05	1SEP05	8SEP05	28

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ACTIVITY ID	ORIG DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
T101520	0	0	0	BID PKGE SENT STRUCTURAL STEEL	1AUG05	29JUL05	9SEP05	8SEP05	28
T101530	15	15	0	Subs Prep Bids Structural Steel	1AUG05	19AUG05	9SEP05	29SEP05	28
T101540	0	0	0	SUBMIT BIDS STRUCTURAL STEEL	19AUG05	19AUG05	29SEP05	29SEP05	28
T101550	10	10	0	Review Bids Structural Steel	2SEP05	16SEP05	7OCT05	20OCT05	24
T101560	0	0	0	AWARD STRUCTURAL STEEL	16SEP05	16SEP05	20OCT05	20OCT05	24
T101570	65	65	0	Mill Order for Piles	14JUN05	14SEP05	15JUL05	14OCT05	22
T101580	60	60	0	Coordinate Underdrum Utilities	28DEC05	23MAR06	27JAN06	21APR06	21
T101600	10	10	0	TCCo Issue Addendum Super Concrete	24OCT05	4NOV05	16MAR06	29APR06	99
T101610	10	10	0	Revise Bid Per Addn Super Concrete	7NOV05	18NOV05	30MAR06	12APR06	99
T101620	10	10	0	TCCo Prep Bid Pkg Super Concrete	12SEP05*	23SEP05	1FEB06	14FEB06	99
T101830	5	5	0	A/E Appr Scope Super Concrete	26SEP05	30SEP05	15FEB06	22FEB06	99
T101840	0	0	0	BID PKGE SENT Super CONCRETE	3OCT05	21OCT05	23FEB06	22FEB06	99
T101850	15	15	0	Subs Prep Bids Super Concrete	21OCT05	15NOV05	15MAR06	15MAR06	99
T101660	0	0	0	SUBMIT BIDS Super CONCRETE	15NOV05	5DEC05	13APR06	26APR06	99
T101670	10	10	0	Review Bids Super Concrete	5DEC05	5DEC05	26APR06	26APR06	99
T101680	0	0	0	AWARD Superstructure CONCRETE	6DEC05	15MAR06	27APR06	3AUG06	99
T101690	69	69	0	Submit Superstructure Concrete Shop Drwgs	25JAN06	5APR06	15JUN06	24AUG06	99
T101700	50	50	0	Appr Superstructure Concrete Shop Drwgs	6APR06	3MAY06	25AUG06	22SEP06	99
T101710	20	20	0	Deliver Superstructure Concrete	26SEP05	7OCT05	20DEC05	4JAN06	60
T101720	10	10	0	TCCo Issue Addendum SOFF	10OCT05	21OCT05	5JAN06	18JAN06	60
T101730	10	10	0	Revise Bid Per Addn SOFF	12AUG05*	25AUG05	7NOV05	18NOV05	60
T101740	10	10	0	TCCo Prep Bid Pkg SOFF	26AUG05	1SEP05	21NOV05	28NOV05	60
T101750	5	5	0	A/E Appr Scope SOFF	25SEP05	1SEP05	29NOV05	28NOV05	60
T101760	0	0	0	BID PKGE SENT SOFF	25SEP05	23SEP05	29NOV05	19DEC05	60
T101770	15	15	0	Subs Prep Bids SOFF	23SEP05	23SEP05	29NOV05	19DEC05	60
T101780	0	0	0	SUBMIT BIDS SOFF	24OCT05	4NOV05	19JAN06	1FEB06	60
T101790	10	10	0	Review Bids SOFF	4NOV05	4NOV05	1FEB06	1FEB06	60
T101800	0	0	0	AWARD SOFF	7NOV05	14APR06	2FEB06	11JUL06	60
T101810	11	11	0	Submit SOFF Shop Drwgs	10FEB06	5MAY06	8MAY06	1AUG06	60
T101820	60	60	0	Appr SOFF Shop Drwgs	8MAY06	17JUL06	2AUG06	10OCT06	60
T101830	49	49	0	Deliver SOFF	10OCT05	14OCT05	9NOV05	15NOV05	22
T101860	5	5	0	TCCo Issue Addendum BHS	10OCT05	14OCT05	9NOV05	15NOV05	22
T101970	5	5	0	Revise Bid Per Addn BHS	10OCT05	14OCT05	9NOV05	15NOV05	22
T101980	10	10	0	TCCo Prep Bid Pkg BHS	28SEP05	25AUG05	28SEP05	11OCT05	32
T101990	5	5	0	A/E Appr Scope BHS	12AUG05	1SEP05	12OCT05	18OCT05	32
T10200	26	26	0	PA Review TAA T-10: Communication & IT	26AUG05	1SEP05	19JAN06	24FEB06	106
T102010	0	0	0	BID PKGE SENT BHS	18AUG05	23SEP05	19JAN06	18OCT05	32
T102010	15	15	0	Subs Prep Bids BHS	1SEP05	1SEP05	19OCT05	8NOV05	32
T102020	0	0	0	SUBMIT BIDS BHS	17OCT05	23SEP05	8NOV05	8NOV05	32
T102030	10	10	0	Review Bids BHS	23SEP05	23SEP05	8NOV05	8NOV05	32
T102040	0	0	0	AWARD BHS	17OCT05	28OCT05	16NOV05	30NOV05	22
T102080	5	5	0	TCCo Issue Addendum Curtainwall	31OCT05	4NOV05	9DEC05	15DEC05	28
T102090	10	10	0	Revise Bid Per Addn Curtainwall	7NOV05	18NOV05	16DEC05	30DEC05	28
T10210	0	0	0	PA ISSUE RIDER A TAA T-10: Communication & IT	26SEP05	19SEP05*	27FEB06	27FEB06	106
T102100	10	10	0	TCCo Prep Bid Pkg Curtainwall	30SEP05	30SEP05	27OCT05	9NOV05	28
T102110	5	5	0	A/E Appr Scope Curtainwall	3OCT05	7OCT05	10NOV05	16NOV05	28
T102120	0	0	0	BID PKGE SENT CURTAINWALL	7OCT05	7OCT05	16NOV05	16NOV05	28
T102130	15	15	0	Subs Prep Bids Curtainwall	10OCT05	28OCT05	17NOV05	8DEC05	28
T102140	0	0	0	SUBMIT BIDS CURTAINWALL	21NOV05	28OCT05	8DEC05	8DEC05	28
T102150	10	10	0	Review Bids Curtainwall	28OCT05	28OCT05	3JAN06	16JAN06	28
T102160	0	0	0	AWARD CURTAINWALL	5DEC05	5DEC05	16JAN06	16JAN06	28
T102170	90	90	0	Appr Curtainwall Shop Drwgs	6DEC05	13APR06	17JAN06	23MAY06	28
T102180	60	60	0	Coordinate & Fabricate Curtainwall	9FEB06	4MAY06	22MAR06	14JUN06	28
T102190	300	300	0	Design Team Inc Rider A TAA T-10: Comm & IT	5MAY06	11JUL07	15JUN06	20AUG07	28
T102200	10	10	0	TCCo Issue Addendum Exterior Masonry	26SEP05	7OCT05	27FEB06	10MAR06	106
T102210	5	5	0	Revise Bid Per Addn Exterior Masonry	21FEB06	27FEB06	5APR06	11APR06	31
T102220	10	10	0	TCCo Prep Bid Pkg Exterior Masonry	28FEB06	13MAR06	12APR06	23APR06	31
T102230	5	5	0	A/E Appr Scope Exterior Masonry	9JAN06*	20JAN06	22FEB06	7MAR06	31
T102240	0	0	0	BID PKGE SENT EXTERIOR MASONRY	23JAN06	27JAN06	8MAR06	14MAR06	31
T102250	15	15	0	Subs Prep Bids Exterior Masonry	30JAN06	17FEB06	15MAR06	4APR06	31
T102260	0	0	0	SUBMIT BIDS EXTERIOR MASONRY	14MAR06	17FEB06	4APR06	4APR06	31
T102270	10	10	0	Review Bids Exterior Masonry	27MAR06	27MAR06	26APR06	9MAY06	31
T102280	0	0	0	AWARD EXTERIOR MASONRY	28MAR06	6JUN06	10MAY06	10MAY06	31
T102290	50	50	0	Submit Exterior Masonry Shop Drwgs	16MAY06	21JUN06	29JUN06	20AUG06	31
T102300	30	30	0	Appr Exterior Masonry Shop Drwgs	28JUN06	21SEP06	11AUG06	3NOV06	31
T102310	60	60	0	Coordinate & Fabricate Exterior Masonry	28JUN06	21SEP06	11AUG06	3NOV06	31

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T102320	5	5	0	TCCO Issue Addendum Metal Panels	31OCT05	4NOV05	16DEC05	22DEC05	33
T102330	10	10	0	Revise Bid Per Addn Metal Panels	7NOV03	18NOV05	23DEC05	9JAN06	33
T102340	10	10	0	TCCO Prep Bid Pkge Metal Panels	19SEP05*	30SEP05	3NOV05	16NOV05	33
T102350	5	5	0	A/E Appr Scope Metal Panels	3OCT05	7OCT05	17NOV05	23NOV05	33
T102360	0	0	0	BID PKGE SENT METAL PANELS					
T102370	15	15	0	Subs Prep Bids Metal Panels	7OCT05	28OCT05	25NOV05	5DEC05	33
T102380	0	0	0	SUBMIT BIDS METAL PANELS					
T102390	10	10	0	Review Bids Metal Panels	21NOV05	5DEC05	10JAN06	23JAN06	33
T102400	0	0	0	AWARD METAL PANELS					
T102410	60	60	0	Submit Metal Panels Shop Drwgs	6DEC05	28MAR06	24JAN06	18APR06	33
T102420	60	60	0	Appr Metal Panels Shop Drwgs	2FEB06	27APR06	22MAR06	14JUN06	33
T102430	250	250	0	Coordinate & Fabricate Metal Panels	28APR06	23APR07	15JUN06	8JUN07	33
T10250	0	0	0	PA ISSUE NTP T-10: Communication & IT					
T104440	5	5	0	TCCO Issue Addendum Windows	31OCT05	4NOV05	2DEC05	9DEC05	23
T104450	10	10	0	Revise Bid Per Addn Windows	7NOV05	18NOV05	9DEC05	22DEC05	23
T104460	10	10	0	TCCO Prep Bid Pkge Windows	19SEP05*	30SEP05	2OCT05	2NOV05	23
T104470	5	5	0	A/E Appr Scope Windows	3OCT05	7OCT05	3NOV05	9NOV05	23
T104480	0	0	0	BID PKGE SENT WINDOWS					
T104490	15	15	0	Subs Prep Bids Windows	10OCT05	28OCT05	10NOV05	1DEC05	23
T104500	0	0	0	SUBMIT BIDS WINDOWS					
T104510	10	10	0	Review Bids Windows	21NOV05	5DEC05	23DEC05	9JAN06	23
T104520	0	0	0	AWARD WINDOWS					
T104530	50	50	0	Submit Windows Shop Drwgs	6DEC05	15FEB06	10JAN06	21MAR06	23
T104540	40	40	0	Appr Windows Shop Drwgs	12JAN06	9MAR06	14FEB06	11APR06	23
T104550	145	145	0	Coordinate & Fabricate Windows	10MAR06	3OCT06	12APR06	3NOV06	23
T104560	10	10	0	TCCO Issue Addendum Storefronts	21FEB06	6MAR06	15MAR06	28MAR06	16
T104570	10	10	0	Revise Bid Per Addn Storefronts	7MAR06	20MAR06	29MAR06	11APR06	16
T104580	10	10	0	TCCO Prep Bid Pkge Storefronts	9JAN06*	20JAN06	31JAN06	13FEB06	16
T104590	5	5	0	A/E Appr Scope Storefronts	23JAN06	27JAN06	14FEB06	21FEB06	16
T104600	0	0	0	BID PKGE SENT STOREFRONTS					
T104610	15	15	0	Subs Prep Bids Storefronts	30JAN06	17FEB06	22FEB06	14MAR06	16
T104620	0	0	0	SUBMIT BIDS STOREFRONTS					
T104630	10	10	0	Review Bids Storefronts	21MAR06	3APR06	12APR06	25APR06	16
T104640	0	0	0	AWARD STOREFRONTS					
T104650	60	60	0	Submit Storefronts Shop Drwgs	4APR06	27JUN06	26APR06	20JUL06	16
T104660	40	40	0	Appr Storefronts Shop Drwgs	23MAY06	19JUL06	15JUN06	10AUG06	16
T104670	200	200	0	Coordinate & Fabricate Storefronts	20JUL06	2MAY07	11AUG06	24MAY07	16
T104680	10	10	0	TCCO Issue Addendum Garage Doors	29NOV05	12DEC05	3JAN06	16JAN06	23
T104690	10	10	0	Revise Bid Per Addn Garage Doors	13DEC05	28OCT05	17NOV05	30JAN06	23
T104700	10	10	0	TCCO Prep Bid Pkge OH Doors	17OCT05*	28OCT05	17NOV05	1DEC05	23
T104710	5	5	0	A/E Appr Scope Garage Doors	31OCT05	4NOV05	2DEC05	8DEC05	23
T104720	0	0	0	BID PKGE SENT GARAGE DOORS					
T104730	15	15	0	Subs Prep Bids Garage Doors	7NOV05	28NOV05	9DEC05	30DEC05	23
T104740	0	0	0	SUBMIT BIDS GARAGE DOORS					
T104750	10	10	0	Review Bids Garage Doors	29DEC05	11JAN06	28NOV05	30DEC05	23
T104760	0	0	0	AWARD GARAGE DOORS					
T104770	60	60	0	Submit Garage Doors Shop Drwgs	12JAN06	6APR06	14FEB06	9MAY06	23
T104780	30	30	0	Appr Garage Doors Shop Drwgs	17MAR06	27APR06	19APR06	31MAY06	23
T104790	200	200	0	Coordinate & Fabricate Garage Doors	28APR06	9FEB07	1JUN06	15MAR07	23
T105920	10	10	0	TCCO Issue Addendum Roofing	28FEB06	13MAR06	30MAR06	12APR06	22
T105930	10	10	0	Revise Bid Per Addn Roofing	14MAR06	27MAR06	13APR06	26APR06	22
T105940	10	10	0	TCCO Prep Bid Pkge Roofing	16JAN06*	27JAN06	15FEB06	1MAR06	22
T105950	5	5	0	A/E Appr Scope Roofing	30JAN06	3FEB06	2MAR06	8MAR06	22
T105960	0	0	0	BID PKGE SENT ROOFING					
T105970	15	15	0	Subs Prep Bids Roofing	6FEB06	27FEB06	9MAR06	29MAR06	22
T105980	0	0	0	SUBMIT BIDS ROOFING					
T105990	10	10	0	Review Bids Roofing	28MAR06	10APR06	27APR06	10MAY06	22
T106000	0	0	0	AWARD ROOFING					
T106010	34	34	0	Submit Roofing Shop Drwgs	11APR06	26MAY06	11MAY06	28JUN06	22
T106020	30	30	0	Appr Roofing Shop Drwgs	8MAY06	19JUN06	8JUN06	20JUL06	22
T106030	175	175	0	Coordinate & Fabricate Roofing	20JUN06	27FEB07	21JUL06	29MAR07	22
T106040	10	10	0	TCCO Issue Addendum Flight Tube Cladding	20DEC05	4JAN06	3FEB06	16FEB06	31
T106050	10	10	0	Revise Bid Per Addn Flight Tube Cladding	5JAN06	18JAN06	17FEB06	3MAR06	31
T106060	10	10	0	TCCO Prep Bid Pkge Flight Tube Cladding	7NOV05	18NOV05	21DEC05	5JAN06	31
T106070	5	5	0	A/E Appr Scope Flight Tube Cladding	21NOV05	28NOV05	6JAN06	12JAN06	31
T106080	0	0	0	BID PKGE SENT FLIGHT TUBE CLADDING					
T106090	15	15	0	Subs Prep Bids Flight Tube Cladding	29NOV05	19DEC05	13JAN06	2FEB06	31

Turner Construction Company

PRIMAVERA PROJECT PLANNER

Jet Blue FS 1-yr Baseline

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T106100	0	0	0	SUBMIT BIDS FLIGHT TUBE CLADDING	19DEC05	19DEC05	6MAR06	2FEB06	31
T106110	10	10	0	Review Bids Flight Tube Cladding	1FEB06	1FEB06	17MAR06	17MAR06	31
T106120	0	0	0	AWARD FLIGHT TUBE CLADDING	1FEB06	1FEB06	17MAR06	17MAR06	31
T106130	30	30	0	Submit Flight Tube Cladding Shop Drwgs	2FEB06	16MAR06	20MAR06	28APR06	31
T106140	60	60	0	Appr Flight Tube Cladding Shop Drwgs	10MAR06	2JUN06	24APR06	18JUL06	31
T106150	170	170	0	Coordinate & Fabricate Flight Tube Cladding	5JUN06	2FEB07	15JUL06	20MAR07	31
T106160	10	10	0	TCCO Issue Addendum Air Train Cladding	20DEC05	4JAN06	15MAY06	26MAY06	101
T106170	10	10	0	Revise Bid Per Addn Air Train Cladding	5JAN06	18JAN06	30MAY06	12JUN06	101
T106180	10	10	0	TCCO Prep Bid Pkge Air Train Cladding	7NOV05	18NOV05	3APR06	14APR06	101
T106190	5	5	0	A/E Appr Scope Air Train Cladding	21NOV05	28NOV05	17APR06	21APR06	101
T106200	0	0	0	BID PKGE SENT AIR TRAIN CLADDING	28NOV05	28NOV05	21APR06	21APR06	101
T106210	15	15	0	Subs Prep Bids Air Train Cladding	29NOV05	19DEC05	24APR06	12MAY06	101
T106220	0	0	0	SUBMIT BIDS AIR TRAIN CLADDING	19DEC05	19DEC05	12MAY06	12MAY06	101
T106230	10	10	0	Review Bids Air Train Cladding	1FEB06	1FEB06	26JUN06	26JUN06	101
T106240	0	0	0	AWARD AIR TRAIN CLADDING	1FEB06	1FEB06	26JUN06	26JUN06	101
T106250	30	30	0	Submit Air Train Cladding Shop Drwgs	2FEB06	16MAR06	27JUN06	8AUG06	101
T106260	60	60	0	Appr Air Train Cladding Shop Drwgs	10MAR06	2JUN06	2AUG06	25OCT06	101
T106270	190	190	0	Coordinate & Fabricate Air Train Cladding	5JUN06	5MAR07	26OCT06	26JUL07	101
T106280	10	10	0	TCCO Issue Addendum Drywall/Ceilings	28FEB06	13MAR06	23AUG06	6SEP06	124
T106290	10	10	0	Revise Bid Per Addn Drywall/Ceilings	14MAR06	27MAR06	7SEP06	20SEP06	124
T106300	10	10	0	TCCO Prep Bid Pkge Drywall/Ceilings	16JAN06	2JAN06	12JUL06	25JUL06	124
T106310	5	5	0	A/E Appr Scope Drywall/Ceilings	30JAN06	3FEB06	26JUL06	1AUG06	124
T106320	0	0	0	BID PKGE SENT DRYWALL/CEILINGS	30JAN06	3FEB06	26JUL06	1AUG06	124
T106330	15	15	0	Subs Prep Bids Drywall/Ceilings	6FEB06	27FEB06	2AUG06	22AUG06	124
T106340	0	0	0	SUBMIT BIDS DRYWALL/CEILINGS	27FEB06	27FEB06	2AUG06	22AUG06	124
T106350	10	10	0	Review Bids Drywall/Ceilings	29MAR06	10APR06	21SEP06	4OCT06	124
T106360	0	0	0	AWARD DRYWALL/CEILINGS	10APR06	10APR06	21SEP06	4OCT06	124
T106370	30	30	0	Submit Drywall/Ceilings Shop Drwgs	11APR06	22MAY06	5OCT06	15NOV06	124
T106380	30	30	0	Appr Drywall/Ceilings Shop Drwgs	2MAY06	13JUN06	26OCT06	7DEC06	124
T106390	70	70	0	Coordinate & Fabricate Drywall/Ceilings	14JUN06	21SEP06	8DEC06	20MAR07	124
T106400	10	10	0	TCCO Issue Addendum Doors & Hardware	6DEC05	19DEC05	12SEP06	12JUN06	121
T106410	10	10	0	Revise Bid Per Addn Doors & Hardware	20DEC05	4JAN06	13JUN06	28JUN06	121
T106420	10	10	0	TCCO Prep Bid Pkge Doors & Hardware	24OCT05	14NOV05	17APR06	28APR06	121
T106430	5	5	0	A/E Appr Scope Doors & Hardware	7NOV05	11NOV05	1MAY06	5MAY06	121
T106440	0	0	0	BID PKGE SENT DOORS & HARDWARE	14NOV05	11NOV05	5MAY06	5MAY06	121
T106450	15	15	0	Subs Prep Bids Doors & Hardware	14NOV05	5DEC05	8MAY06	26MAY06	121
T106460	0	0	0	SUBMIT BIDS DOORS & HARDWARE	5JAN06	5DEC05	26MAY06	26MAY06	121
T106470	10	10	0	Review Bids Doors & Hardware	5JAN06	18JAN06	27JUN06	11JUL06	121
T106480	0	0	0	AWARD DOORS & HARDWARE	18JAN06	18JAN06	11JUL06	11JUL06	121
T106490	60	60	0	Submit Doors & Hardware Shop Drwgs	19JAN06	13APR06	12JUL06	4OCT06	121
T106500	40	40	0	Appr Doors & Hardware Shop Drwgs	10MAR06	4MAY06	30AUG06	25OCT06	121
T106510	100	100	0	Coordinate & Fabricate Doors & Hardware	5MAY06	26SEP06	26OCT06	20MAR07	121
T106520	10	10	0	TCCO Issue Addendum Misc Metals/Stairs	28DEC05	11JAN06	17APR06	28APR06	76
T106530	10	10	0	Revise Bid Per Addn Misc Metals/Stairs	12JAN06	25JAN06	1MAY06	12MAY06	76
T106540	10	10	0	TCCO Prep Bid Pkge Misc Metals/Stairs	14NOV05	28NOV05	6MAR06	17MAR06	76
T106550	5	5	0	A/E Appr Scope Misc Metals/Stairs	29NOV05	5DEC05	20MAR06	24MAR06	76
T106560	0	0	0	BID PKGE SENT MISC METALS/STAIRS	5DEC05	5DEC05	20MAR06	24MAR06	76
T106570	15	15	0	Subs Prep Bids Misc Metals/Stairs	6DEC05	27DEC05	27MAR06	14APR06	76
T106580	0	0	0	SUBMIT BIDS MISC METALS/STAIRS	27DEC05	27DEC05	14APR06	14APR06	76
T106590	10	10	0	Review Bids Misc Metals/Stairs	26JAN06	8FEB06	15MAY06	26MAY06	76
T106600	0	0	0	AWARD MISC METALS/STAIRS	8FEB06	8FEB06	15MAY06	26MAY06	76
T106610	40	40	0	Submit Misc Metals/Stairs Shop Drwgs	9FEB06*	6APR06	30MAY06	25JUL06	76
T106620	40	40	0	Appr Misc Metals/Stairs Shop Drwgs	3MAR06	27APR06	20JUN06	15AUG06	76
T106630	150	150	0	Coordinate & Fabricate Misc Metals/Stairs	28APR06	29NOV06	16AUG06	20MAR07	76
T106640	10	10	0	TCCO Issue Addendum VCT & Carpet	10APR06	21APR06	7MAR07	20MAR07	230
T106650	10	10	0	Revise Bid Per Addn VCT & Carpet	24APR06	5MAY06	21MAR07	3APR07	230
T106660	10	10	0	TCCO Prep Bid Pkge VCT & Carpet	27FEB06*	10MAR06	23JAN07	5FEB07	230
T106670	5	5	0	A/E Appr Scope VCT & Carpet	13MAR06	17MAR06	6FEB07	12FEB07	230
T106680	0	0	0	BID PKGE SENT VCT & CARPET	13MAR06	17MAR06	6FEB07	12FEB07	230
T106690	15	15	0	Subs Prep Bids VCT & Carpet	20MAR06	7APR06	13FEB07	6MAR07	230
T106700	0	0	0	SUBMIT BIDS VCT & CARPET	7APR06	7APR06	13FEB07	6MAR07	230
T106710	10	10	0	Review Bids VCT & Carpet	8MAY06	19MAY06	4APR07	17APR07	230
T106720	0	0	0	AWARD VCT & CARPET	19MAY06	19MAY06	17APR07	17APR07	230
T106730	15	15	0	Submit VCT & Carpet Shop Drwgs	22MAY06	12JUN06	18APR07	8MAY07	230
T106740	20	20	0	Appr VCT & Carpet Shop Drwgs	13JUN06	11JUL06	9MAY07	6JUN07	230
T106750	225	225	0	Coordinate & Fabricate VCT & Carpet	12JUL06	30MAY07	7JUN07	24APR08	230
T106760	10	10	0	TCCO Issue Addendum Terrazzo	28FEB06	13MAR06	19OCT06	19OCT06	164

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ACTIVITY ID	ORIG DUR	REM DUR	\$	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
T106770	10	10	0	Revise Bid Per Addn Terrazzo	14MAR06	27MAR06	2NOV06	15NOV06	164
T106780	10	10	0	TCCo Prep Bid Pkge Terrazzo	16JAN06*	27JAN06	7SEP06	20SEP06	164
T106790	5	5	0	A/E Appr Scope Terrazzo	30JAN06	3FEB06	21SEP06	27SEP06	164
T106800	0	0	0	BID PKGE SENT TERRAZZO		3FEB06		27SEP06	164
T106810	15	15	0	Subs Prep Bids Terrazzo	6FEB06	27FEB06	28SEP06	18OCT06	164
T106820	0	0	0	SUBMIT BIDS TERRAZZO		27FEB06		19OCT06	164
T106830	10	10	0	Review Bids Terrazzo	28MAR06	10APR06	16NOV06	30NOV06	164
T106840	0	0	0	AWARD TERRAZZO	10APR06			30NOV06	164
T106850	15	15	0	Submit Terrazzo Shop Drwgs	11APR06	1MAY06	1DEC06	21DEC06	164
T106860	20	20	0	Appr Terrazzo Shop Drwgs	2MAY06	30MAY06	22DEC06	22JAN07	164
T106870	280	280	0	Coordinate & Fabricate Terrazzo	31MAY06	6JUL07	23JAN07	28FEB08	164
T106880	10	10	0	TCCo Issue Addendum Millwork	25JAN06	7FEB06	1MAY06	12MAY06	67
T106890	10	10	0	Revise Bid Per Addn Millwork	8FEB06	27FEB06	15MAY06	26MAY06	67
T106900	10	10	0	TCCo Prep Bid Pkge Millwork	12DEC05*	23DEC05	20MAR06	31MAR06	67
T106910	5	5	0	A/E Appr Scope Millwork	27DEC05	3JAN06	3APR06	7APR06	67
T106920	0	0	0	BID PKGE SENT MILLWORK		3JAN06		7APR06	67
T106930	15	15	0	Subs Prep Bids Millwork	4JAN06	24JAN06	10APR06	28APR06	67
T106940	0	0	0	SUBMIT BIDS MILLWORK		24JAN06		28APR06	67
T106950	10	10	0	Review Bids Millwork	23FEB06	8MAR06	30MAY06	12JUN06	67
T106960	0	0	0	AWARD MILLWORK		8MAR06		12JUN06	67
T106970	80	80	0	Submit Millwork Shop Drwgs	9MAR06	29JUN06	13JUN06	4OCT06	67
T106980	40	40	0	Appr Millwork Shop Drwgs	25MAY06	21JUL06	30AUG06	25OCT06	67
T106990	345	345	0	Coordinate & Fabricate Millwork	24JUL06	29NOV07	26OCT06	6MAR08	67
T107100	10	10	0	TCCo Issue Addendum Painting	28FEB06	13MAR06	24NOV06	7DEC06	189
T107110	10	10	0	Revise Bid Per Addn Painting	14MAR06	27MAR06	8DEC06	21DEC06	189
T107120	10	10	0	TCCo Prep Bid Pkge Painting	16JAN06*	27JAN06	12OCT06	25OCT06	189
T107130	5	5	0	A/E Appr Scope Painting	30JAN06	3FEB06	26OCT06	1NOV06	189
T107140	0	0	0	BID PKGE SENT PAINTING		3FEB06		1NOV06	189
T107150	15	15	0	Subs Prep Bids Painting	6FEB06	27FEB06	2NOV06	22NOV06	189
T107160	0	0	0	SUBMIT BIDS PAINTING		27FEB06		22NOV06	189
T107170	10	10	0	Review Bids Painting	28MAR06	10APR06	22DEC06	8JAN07	189
T107180	0	0	0	AWARD PAINTING		10APR06		8JAN07	189
T107190	15	15	0	Submit Painting Shop Drwgs	11APR06*	1MAY06	9JAN07	29JAN07	189
T107200	15	15	0	Appr Painting Shop Drwgs	2MAY06	22MAY06	30JAN07	20FEB07	189
T107210	20	20	0	Procure Painting	23MAY06	20JUN06	21FEB07	20MAR07	189
T107220	10	10	0	TCCo Issue Addendum Ornamental Metal	24APR06	5MAY06	23AUG06	6SEP06	85
T107230	10	10	0	Revise Bid Per Addn Ornamental Metal	8MAY06	19MAY06	7SEP06	20SEP06	85
T107240	10	10	0	TCCo Prep Bid Pkge Ornamental Metal	13MAR06*	24MAR06	12JUL06	25JUL06	85
T107250	5	5	0	A/E Appr Scope Ornamental Metal	27MAR06	31MAR06	26JUL06	1AUG06	85
T107260	0	0	0	BID PKGE SENT ORNAMENTAL METAL		31MAR06		1AUG06	85
T107270	15	15	0	Subs Prep Bids Ornamental Metal	3APR06	21APR06	2AUG06	22AUG06	85
T107280	0	0	0	SUBMIT BIDS ORNAMENTAL METAL		21APR06		22AUG06	85
T107290	10	10	0	Review Bids Ornamental Metal	22MAY06	5JUN06	21SEP06	4OCT06	85
T107300	0	0	0	AWARD ORNAMENTAL METAL		5JUN06		4OCT06	85
T107310	60	60	0	Submit Ornamental Metal Shop Drwgs	6JUN06*	29AUG06	5OCT06	29DEC06	85
T107320	40	40	0	Appr Ornamental Metal Shop Drwgs	26JUL06	20SEP06	5NOV06	22JAN07	85
T107330	250	250	0	Coordinate & Fabricate Ornamental Metal	21SEP06	14SEP07	23JAN07	16JAN08	85
T107340	10	10	0	TCCo Issue Addendum Specialties	3MAR06	16MAR06	23AUG06	6SEP06	121
T107350	10	10	0	Revise Bid Per Addn Specialties	17MAR06	30MAR06	7SEP06	20SEP06	121
T107360	10	10	0	TCCo Prep Bid Pkge Specialties	19JAN06	1FEB06	12JUL06	25JUL06	121
T107370	5	5	0	A/E Appr Scope Specialties	2FEB06	8FEB06	26JUL06	1AUG06	121
T107380	0	0	0	BID PKGE SENT SPECIALTIES		8FEB06		1AUG06	121
T107390	15	15	0	Subs Prep Bids Specialties	9FEB06	2MAR06	2AUG06	22AUG06	121
T107400	0	0	0	SUBMIT BIDS SPECIALTIES		2MAR06		22AUG06	121
T107410	10	10	0	Review Bids Specialties	31MAR06	13APR06	21SEP06	4OCT06	121
T107420	0	0	0	AWARD SPECIALTIES		13APR06		4OCT06	121
T107430	60	60	0	Submit Specialties Shop Drwgs	14APR06*	10JUL06	5OCT06	29DEC06	121
T107440	40	40	0	Appr Specialties Shop Drwgs	5JUN06	31JUL06	24NOV06	22JAN07	121
T107450	280	280	0	Coordinate & Fabricate Specialties	1AUG06	6SEP07	23JAN07	28FEB08	121
T107460	10	10	0	TCCo Issue Addendum Equipment	2FEB06	15FEB06	23AUG06	6SEP06	141
T107470	10	10	0	Revise Bid Per Addn Equipment	16FEB06	2MAR06	7SEP06	20SEP06	141
T107480	10	10	0	TCCo Prep Bid Pkge Equipment	20DEC05	4JAN06	12JUL06	25JUL06	141
T107490	5	5	0	A/E Appr Scope Equipment	5JAN06	11JAN06	26JUL06	1AUG06	141
T107500	0	0	0	BID PKGE SENT EQUIPMENT		11JAN06		1AUG06	141
T107510	15	15	0	Subs Prep Bids Equipment	12JAN06	1FEB06	2AUG06	22AUG06	141
T107520	0	0	0	SUBMIT BIDS EQUIPMENT		1FEB06		22AUG06	141
T107530	10	10	0	Review Bids Equipment	3MAR06	16MAR06	21SEP06	4OCT06	141

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T107540	0	0	0	AWARD EQUIPMENT	16MAR06	16MAR06	4OCT06	4OCT06	141
T107550	60	60	0	Submit Equipment Shop Drwgs	17MAR06*	9JUN06	5OCT06	29DEC06	141
T107560	40	40	0	Appr Equipment Shop Drwgs	5MAY06	30JUN06	22JAN07	29JAN07	141
T107570	250	250	0	Coordinate & Fabricate Equipment	3JUL06	26JUN07	23JAN07	16JAN08	141
T108580	10	10	0	TCCO Issue Addendum Signage	28DEC05	13JAN06	6MAR06	17MAR06	46
T108590	10	10	0	Revise Bid Per Addn Signage	12JAN06	25JAN06	20MAR06	31MAR06	46
T108600	10	10	0	TCCO Prep Bid Pkge Signage	14NOV05*	28NOV05	20JAN06	2FEB06	46
T108610	5	5	0	A/E Appr Scope Signage	29NOV05*	5DEC05	3FEB06	9FEB06	46
T108620	0	0	0	BID PKGE SENT SIGNAGE	5DEC05	5DEC05	10FEB06	9FEB06	46
T108630	15	15	0	Subs Prep Bids Signage	6DEC05	27DEC05	10FEB06	3MAR06	46
T108640	0	0	0	SUBMIT BIDS SIGNAGE	26JAN06	27DEC05	3APR06	3MAR06	46
T108650	10	10	0	Review Bids Signage	8FEB06	8FEB06	14APR06	14APR06	46
T108660	0	0	0	AWARD SIGNAGE	21FEB06*	9AUG06	17APR06	4OCT06	39
T108670	120	120	0	Submit Signage Shop Drwgs	9MAY06	30AUG06	5JUL06	25OCT06	39
T108680	80	80	0	Appr Signage Shop Drwgs	31AUG06	23JAN07	26OCT06	20MAR07	39
T108690	100	100	0	Coordinate & Fabricate Signage	3MAR06	16MAR06	21SEP06	4OCT06	141
T108700	10	10	0	TCCO Issue Addendum Air Train/Tube Painting	17MAR06	30MAR06	5OCT06	18OCT06	141
T108710	10	10	0	Revise Bid Per Add Air Train/Tube Paint	19JAN06	1FEB06	9AUG06	22AUG06	141
T108720	10	10	0	TCCO Prep Bid Pkge Air Train/Tube Painting	2FEB06	8FEB06	23AUG06	29AUG06	141
T108730	5	5	0	A/E Appr Scope Air Train/Tube Painting	8FEB06	8FEB06	29AUG06	29AUG06	141
T108740	0	0	0	BID PKGE SENT AIR TRAIN/TUBE PAINTING	9FEB06	2MAR06	30AUG06	20SEP06	141
T108750	15	15	0	Subs Prep Bids Air Train/Tube Painting	2MAR06	2MAR06	20SEP06	20SEP06	141
T108760	0	0	0	SUBMIT BIDS AIR TRAIN/TUBE PAINTING	31MAR06	13APR06	19OCT06	1NOV06	141
T108770	10	10	0	Review Bids Air Train/Tube Painting	14APR06	9JUN06	2NOV06	29DEC06	141
T108780	0	0	0	AWARD AIR TRAIN/TUBE PAINTING	14APR06	9JUN06	2NOV06	29DEC06	141
T108790	40	40	0	Submit Air Train/Tube Painting Shop Drwgs	5JUN06	30JUN06	22DEC06	22JAN07	141
T108800	20	20	0	Appr Air Train/Tube Painting Shop Drwgs	3JUL06	28AUG06	23JAN07	20MAR07	141
T108810	40	40	0	Procure Air Train/Tube Painting	7NOV05	11NOV05	16MAY06	22MAY06	132
T108820	5	5	0	TCCO Issue Addendum HVAC Airside	14NOV05	28NOV05	23MAY06	6JUN06	132
T108830	10	10	0	Revise Bid Per Addn HVAC Airside	26SEP05*	7OCT05	4APR06	17APR06	132
T108840	10	10	0	TCCO Prep Bid Pkge HVAC Airside	10OCT05	14OCT05	18APR06	24APR06	132
T108850	5	5	0	A/E Appr Scope HVAC Airside	17OCT05	4NOV05	25APR06	15MAY06	132
T108860	0	0	0	BID PKGE SENT HVAC AIRSIDE	29NOV05	12DEC05	7JUN06	26JUN06	132
T108870	15	15	0	Subs Prep Bids HVAC Airside	12DEC05	12DEC05	20JUN06	20JUN06	132
T108880	0	0	0	SUBMIT BIDS HVAC AIRSIDE	13DEC05	23FEB06	21JUN06	30AUG06	132
T108890	10	10	0	Review Bids HVAC Airside	5JAN06	16MAR06	13JUL06	21SEP06	132
T108900	0	0	0	AWARD HVAC AIRSIDE	17MAR06	21MAY07	22SEP06	27NOV07	132
T108910	50	50	0	Submit HVAC Airside Shop Drwgs	7NOV05	11NOV05	14JUN06	20JUN06	152
T108920	50	50	0	Appr HVAC Airside Shop Drwgs	14NOV05	28NOV05	21JUN06	5JUL06	152
T108930	300	300	0	Coordinate & Fabricate HVAC Airside	26SEP05*	7OCT05	2MAY06	15MAY06	152
T108940	5	5	0	TCCO Issue Addendum HVAC Wetside	10OCT05	14OCT05	16MAY06	22MAY06	152
T108950	10	10	0	Revise Bid Per Addn HVAC Wetside	17OCT05	4NOV05	23MAY06	13JUN06	152
T108960	10	10	0	TCCO Prep Bid Pkge HVAC Wetside	29NOV05	12DEC05	6JUL06	19JUL06	152
T108970	5	5	0	A/E Appr Scope HVAC Wetside	13DEC05	23FEB06	20JUL06	28SEP06	152
T108980	0	0	0	BID PKGE SENT HVAC WETSIDE	5JAN06	16MAR06	10AUG06	19OCT06	152
T108990	15	15	0	Subs Prep Bids HVAC Wetside	17MAR06	21MAY07	20OCT06	26DEC07	152
T109000	0	0	0	SUBMIT BIDS HVAC WETSIDE	26SEP05	30SEP05	22DEC05	29DEC05	62
T109010	10	10	0	Review Bids HVAC Wetside	3OCT05	7OCT05	30DEC05	6JAN06	62
T109020	0	0	0	TCCO Prep Bid Pkge HVAC Equip	12AUG05*	18AUG05	23NOV05	30NOV05	72
T109030	5	5	0	A/E Appr Scope HVAC Equip	19AUG05	29AUG05	1DEC05	7DEC05	72
T109040	50	50	0	Submit HVAC Equip Shop Drwgs	26AUG05	9SEP05	8DEC05	21DEC05	72
T109050	50	50	0	Appr HVAC Wetside Shop Drwgs	10OCT05	14OCT05	9JAN06	13JAN06	62
T109060	300	300	0	Coordinate & Fabricate HVAC Wetside	17OCT05	11JAN06	16JAN06	10APR06	62
T109070	5	5	0	TCCO Issue Addendum HVAC Equip	21OCT05	15FEB06	21FEB06	19MAY06	62
T109080	5	5	0	Revise Bid Per Addn HVAC Equip	2FEB06	25OCT07	2MAY06	24JAN08	86
T109090	5	5	0	TCCO Prep Bid Pkge HVAC Equip	13DEC05	27DEC05	3APR06	14APR06	86
T109100	5	5	0	A/E Appr Scope HVAC Equip	17OCT05*	28OCT05	17FEB06	3MAR06	86
T109110	0	0	0	BID PKGE SENT HVAC EQUIP					
T109120	10	10	0	Subs Prep Bids HVAC Equip					
T109130	5	5	0	Review Bids HVAC Equip					
T109140	0	0	0	AWARD HVAC EQUIP					
T109150	60	60	0	Submit HVAC Equip Shop Drwgs					
T109160	50	50	0	Appr HVAC Equip Shop Drwgs					
T109170	440	440	0	Coordinate & Fabricate HVAC Equip					
T109180	10	10	0	TCCO Issue Addendum HVAC Controls/BMS					
T109190	10	10	0	Revise Bid Per Addn HVAC Controls/BMS					
T109200	10	10	0	TCCO Prep Bid Pkge HVAC Controls/BMS					

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T109210	5	5	0	A/E Appr Scope HVAC Controls/BMS	31OCT05	4NOV05	6MAR06	10MAR06	86
T109220	0	0	0	BID PKGE SENT HVAC CONTROLS/BMS		4NOV05		10MAR06	86
T109230	15	15	0	Subs Prep Bids HVAC Controls/BMS	7NOV05	28NOV05	13MAR06	31MAR06	86
T109240	0	0	0	SUBMIT BIDS HVAC CONTROLS/BMS	28NOV05	28NOV05		31MAR06	86
T109250	10	10	0	Review Bids HVAC Controls/BMS	28DEC05	11JAN06	1MAY06	12MAY06	86
T109260	0	0	0	AWARD HVAC CONTROLS/BMS		11JAN06		12MAY06	86
T109270	120	120	0	Submit HVAC Controls/BMS Shop Drwgs	12JAN06*	30JUN06	15MAY06	1NOV06	86
T109280	60	60	0	Appr HVAC Controls/BMS Shop Drwgs	28APR06	24JUL06	30AUG06	22NOV06	86
T109290	135	135	0	Coordinate & Fabricate HVAC Controls/BMS	25JUL06	2FEB07	24NOV06	6JUN07	86
T109300	10	10	0	TCCO Issue Addendum Air Train Connector	6DEC05	19DEC05	27MAR06	7APR06	76
T109310	10	10	0	Revise Bid Per Addn Air Train Connector	20DEC05	4JAN06	10APR06	21APR06	76
T109320	10	10	0	TCCO Prep Bid Pkge Air Train Connector	24OCT05*	4NOV05	10FEB06	24FEB06	76
T109330	5	5	0	A/E Appr Scope Air Train Connector	7NOV05	11NOV05	27FEB06	3MAR06	76
T109340	0	0	0	BID PKGE SENT AIR TRAIN CONNECTOR		11NOV05		3MAR06	76
T109350	15	15	0	Subs Prep Bids Air Train Connector	14NOV05	5DEC05	6MAR06	24MAR06	76
T109360	0	0	0	SUBMIT BIDS AIR TRAIN CONNECTOR		5DEC05		24MAR06	76
T109370	10	10	0	Review Bids Air Train Connector	5JAN06	18JAN06	24APR06	5MAY06	76
T109380	0	0	0	AWARD AIR TRAIN CONNECTOR		18JAN06		5MAY06	76
T109390	50	50	0	Submit Air Train Connector MEP Shop Drwgs	19JAN06	30MAR06	8MAY06	18JUL06	76
T109400	50	50	0	Coordinate & Fab Air Train Connector MEP Shop Drwgs	9FEB06	20APR06	30MAY06	8AUG06	76
T109410	220	220	0	Appr Air Train Connector MEP Shop Drwgs	10OCT05	5MAR07	9AUG06	20JUN07	76
T109420	5	5	0	TCCO Issue Addendum High Voltage/Equip	17OCT05	14OCT05	30MAY06	5JUN06	161
T109430	10	10	0	Revise Bid Per Addn High Voltage/Equip	17OCT05	21OCT05	6JUN06	12JUN06	161
T109440	5	5	0	TCCO Prep Bid Pkge High Voltage/Equip	12AUG05	25AUG05	17APR06	28APR06	171
T109450	5	5	0	A/E Appr Scope High Voltage/Equip	26AUG05	1SEP05	1MAY06	5MAY06	171
T109460	0	0	0	BID PKGE SENT HIGH VOLTAGE/EQUIP		1SEP05		5MAY06	171
T109470	15	15	0	Subs Prep Bids High Voltage/Equip	25SEP05	23SEP05	8MAY06	26MAY06	171
T109480	0	0	0	SUBMIT BIDS HIGH VOLTAGE/EQUIP		23SEP05		26MAY06	171
T109490	10	10	0	Review Bids High Voltage/Equip	24OCT05	4NOV05	13JUN06	26JUN06	161
T109500	0	0	0	AWARD HIGH VOLTAGE/EQUIP		4NOV05		26JUN06	161
T109510	50	50	0	Submit High Voltage/Equip Shop Drwgs	7NOV05	18JAN06	27JUN06	6SEP06	161
T109520	50	50	0	Coordinate & Fabricate High Voltage/Equip	29NOV05	8FEB06	19JUL06	22SEP06	161
T109530	80	80	0	Appr High Voltage/Equip Shop Drwgs	9FEB06	2JUN06	28SEP06	22JAN07	161
T109540	5	5	0	TCCO Issue Addendum Light & Power	10OCT05	14OCT05	11APR06	17APR06	127
T109550	5	5	0	Revise Bid Per Addn Light & Power	17OCT05	21OCT05	18APR06	24APR06	127
T109560	10	10	0	TCCO Prep Bid Pkge Light & Power	12AUG05	25AUG05	28FEB06	13MAR06	137
T109570	5	5	0	A/E Appr Scope Light & Power	26AUG05	1SEP05	14MAR06	20MAR06	137
T109580	0	0	0	BID PKGE SENT LIGHT & POWER		1SEP05		20MAR06	137
T109590	15	15	0	Subs Prep Bids Light & Power	25SEP05	23SEP05	21MAR06	10APR06	137
T109600	0	0	0	SUBMIT BIDS LIGHT & POWER		23SEP05		10APR06	137
T109610	10	10	0	Review Bids Light & Power	24OCT05	4NOV05	25APR06	8MAY06	127
T109620	0	0	0	AWARD LIGHT & POWER		4NOV05		8MAY06	127
T109630	100	100	0	Submit Light & Power Shop Drwgs	7NOV05	30MAR06	9MAY06	28SEP06	127
T109640	60	60	0	Appr Light & Power Shop Drwgs	26JAN06	20APR06	27JUL06	19OCT06	127
T109650	300	300	0	Coordinate & Fabricate Light & Power	21APR06	26JUN07	20OCT06	26DEC07	127
T109660	10	10	0	TCCO Issue Addendum Fire Alarm	21NOV05	5DEC05	25APR06	8MAY06	107
T109670	10	10	0	Revise Bid Per Addn Fire Alarm	6DEC05	19DEC05	9MAY06	22MAY06	107
T109680	10	10	0	TCCO Prep Bid Pkge Fire Alarm	10OCT05	21OCT05	14MAR06	27MAR06	107
T109690	5	5	0	A/E Appr Scope Fire Alarm	24OCT05	28OCT05	28MAR06	3APR06	107
T109700	0	0	0	BID PKGE SENT FIRE ALARM		28OCT05		3APR06	107
T109710	15	15	0	Subs Prep Bids Fire Alarm	31OCT05	18NOV05	4APR06	24APR06	107
T109720	0	0	0	SUBMIT BIDS FIRE ALARM		18NOV05		24APR06	107
T109730	10	10	0	Review Bids Fire Alarm	20DEC05	4JAN06	23MAY06	6JUN06	107
T109740	0	0	0	AWARD FIRE ALARM		4JAN06		6JUN06	107
T109750	80	80	0	Submit Fire Alarm Shop Drwgs	5JAN06	27APR06	7JUN06	28SEP06	107
T109760	60	60	0	Appr Fire Alarm Shop Drwgs	24FEB06	18MAY06	27JUL06	19OCT06	107
T109770	300	300	0	Coordinate & Fabricate Fire Alarm	19MAY06	23OCT07	20OCT06	26DEC07	107
T109780	10	10	0	TCCO Issue Addendum Plumbing	21NOV05	5DEC05	27JUN06	11JUL06	151
T109990	10	10	0	Revise Bid Per Addn Plumbing	6DEC05	19DEC05	12JUL06	25JUL06	151
T11000	238	238	0	Prepare Package T-1: Foundations/Files	4AUG04*	12JUL05	2SEP04	10AUG05	21
T110000	10	10	0	TCCO Prep Bid Pkge Plumbing	10OCT05	21OCT05	15MAY06	26MAY06	151
T110010	5	5	0	A/E Appr Scope Plumbing	24OCT05	28OCT05	30MAY06	5JUN06	151
T110020	0	0	0	BID PKGE SENT PLUMBING		28OCT05		5JUN06	151
T110030	15	15	0	Subs Prep Bids Plumbing	31OCT05	18NOV05	6JUN06	26JUN06	151
T110040	10	10	0	SUBMIT BIDS PLUMBING		18NOV05		26JUN06	151
T110050	10	10	0	Review Bids Plumbing	20DEC05	4JAN06	26JUL06	8AUG06	151
T110060	0	0	0	AWARD PLUMBING		4JAN06		8AUG06	151

Turner Construction Company

PRIMAVERA PROJECT PLANNER

jet Blue TS 1-yr Baseline

REPORT DATE 21OCT05 RUN NO. 4547  
16:53

START DATE 16JUN04 FIN DATE 16JAN09

1-yr Baseline Schedule Report - Sort by Act ID

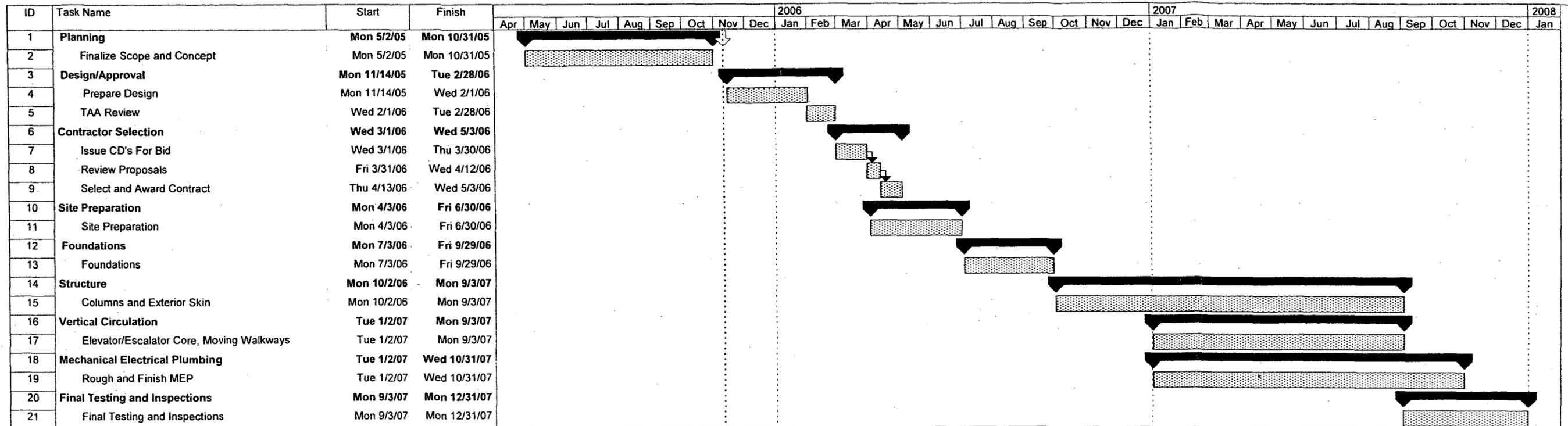
DATA DATE 16JUL04 .PAGE NO. 18

ACTIVITY ID	ORIG REM DUR	REM DUR	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
T110070	60	60	0	Submit Plumbing Shop Drwgs	5JAN06	30MAR06	9AUG06	1NOV06	151
T110080	40	40	0	Appr Plumbing Shop Drwgs	24FEB06	20APR06	28SEP06	22NOV06	151
T110090	214	214	0	Coordinate & Fabricate Plumbing	21APR06	23FEB07	24NOV06	27SEP07	151
T110100	10	10	0	TCCO Issue Addendum Fire Protection	21NOV05	5DEC05	18MAY06	1JUN06	124
T110110	10	10	0	Revise Bid Per Addn Fire Protection	6DEC05	19DEC05	2JUN06	15JUN06	124
T110120	10	10	0	TCCO Prep Bid Pkge Fire Protection	10OCT05	21OCT05	6APR06	19APR06	124
T110130	5	5	0	A/E Appr Scope Fire Protection	24OCT05	28OCT05	20APR06	26APR06	124
T110140	0	0	0	BID PKGE SENT FIRE PROTECTION	31OCT05	18NOV05	27APR06	17MAY06	124
T110150	15	15	0	Subs Prep Bids Fire Protection	20DEC05	4JAN06	16JUN06	29JUN06	124
T110160	0	0	0	SUBMIT BIDS FIRE PROTECTION	20DEC05	4JAN06	16JUN06	29JUN06	124
T110170	10	10	0	Review Bids Fire Protection	20DEC05	4JAN06	16JUN06	29JUN06	124
T110180	0	0	0	AWARD FIRE PROTECTION	20DEC05	4JAN06	16JUN06	29JUN06	124
T110190	60	60	0	Submit Fire Protection Shop Drwgs	5JAN06	30MAR06	30JUN06	25SEP06	124
T110200	40	40	0	Appr Fire Protection Shop Drwgs	24FEB06	20APR06	21AUG06	16OCT06	124
T110210	303	303	0	Coordinate & Fabricate Fire Protection	21APR06	29JUN07	17OCT06	26DEC07	124
T110220	5	5	0	TCCO Issue Addendum Elevators	26SEP05	30SEP05	24APR06	28APR06	146
T110230	5	5	0	Revise Bid Per Addn Elevators	3OCT05	7OCT05	1MAY06	5MAY06	146
T110240	10	10	0	TCCO Prep Bid Pkge Elevators	12AUG05	25AUG05	13MAR06	24MAR06	146
T110250	5	5	0	A/E Appr Scope Elevators	26AUG05	1SEP05	27MAR06	31MAR06	146
T110260	0	0	0	BID PKGE SENT ELEVATORS	2SEP05	1SEP05	3APR06	31MAR06	146
T110270	15	15	0	Subs Prep Bids Elevators	23SEP05	23SEP05	21APR06	21APR06	146
T110280	0	0	0	SUBMIT BIDS ELEVATORS	10OCT05	21OCT05	8MAY06	19MAY06	146
T110290	10	10	0	Review Bids Elevators	21OCT05	21OCT05	19MAY06	19MAY06	146
T110300	0	0	0	AWARD ELEVATORS	21OCT05	21OCT05	19MAY06	19MAY06	146
T110340	5	5	0	TCCO Issue Addendum Escalators/Walkways	26SEP05	30SEP05	24APR06	28APR06	146
T110350	5	5	0	Revise Bid Per Addn Escalators/Walkways	3OCT05	7OCT05	1MAY06	5MAY06	146
T110360	10	10	0	TCCO Prep Bid Pkge Escalators/Walkways	12AUG05	25AUG05	13MAR06	24MAR06	146
T110370	5	5	0	A/E Appr Scope Escalators/Walkways	26AUG05	1SEP05	27MAR06	31MAR06	146
T110380	0	0	0	BID PKGE SENT ESCALATORS/WALKWAYS	2SEP05	1SEP05	3APR06	31MAR06	146
T110390	15	15	0	Subs Prep Bids Escalators/Walkways	23SEP05	23SEP05	21APR06	21APR06	146
T110400	0	0	0	SUBMIT BIDS ESCALATORS/WALKWAYS	10OCT05	21OCT05	8MAY06	19MAY06	146
T110410	10	10	0	Review Bids Escalators/Walkways	21OCT05	21OCT05	19MAY06	19MAY06	146
T110420	0	0	0	AWARD ESCALATORS/WALKWAYS	21OCT05	21OCT05	19MAY06	19MAY06	146
T110430	120	120	0	Submit Escalators/Walkways Shop Drwgs	24OCT05	13APR06	22MAY06	9NOV06	146
T110440	120	120	0	Appr Escalators/Walkways Shop Drwgs	6DEC05	25MAY06	5JUL06	21DEC06	146
T110450	380	380	0	Coordinate & Fabricate Escalators/Walkways	31MAR06	27SEP07	26CCT06	24APR08	146
T110460	5	5	0	JetBlue Issue Addendum Jet Bridges	10OCT05	14OCT05	19JUL06	25JUL06	196
T110470	5	5	0	Revise Bid Per Addn Jet Bridges	17OCT05	21OCT05	26JUL06	1AUG06	196
T110480	10	10	0	JetBlue Prep Bid Pkge Jet Bridges	12AUG05	25AUG05	6JUN06	19JUN06	206
T110490	5	5	0	A/E Appr Scope Jet Bridges	26AUG05	1SEP05	20JUN06	26JUN06	206
T110500	15	15	0	BID PKGE SENT JET BRIDGES	2SEP05	1SEP05	27JUN06	26JUN06	206
T110510	0	0	0	Subs Prep Bids Jet Bridges	23SEP05	23SEP05	18JUL06	18JUL06	206
T110520	0	0	0	SUBMIT BIDS JET BRIDGES	10OCT05	21OCT05	27JUN06	18JUL06	206
T110530	10	10	0	Review Bids Jet Bridges	24OCT05	4NOV05	2AUG06	15AUG06	196
T110540	0	0	0	AWARD JET BRIDGES	24OCT05	4NOV05	2AUG06	15AUG06	196
T110580	10	10	0	TCCO Issue Addendum Security	10APR06	21APR06	30MAY06	12JUN06	35
T110590	10	10	0	Revise Bid Per Addn Security	24APR06	5MAY06	13JUN06	26JUN06	35
T110600	10	10	0	TCCO Prep Bid Pkge Security	27FEB06	10MAR06	17APR06	28APR06	35
T110610	5	5	0	A/E Appr Scope Security	13MAR06	17MAR06	1MAY06	5MAY06	35
T110620	0	0	0	BID PKGE SENT SECURITY	20MAR06	17MAR06	8MAY06	5MAY06	35
T110630	15	15	0	Subs Prep Bids Security	20MAR06	7APR06	8MAY06	26MAY06	35
T110640	0	0	0	SUBMIT BIDS SECURITY	8MAY06	7APR06	8MAY06	26MAY06	35
T110650	10	10	0	Review Bids Security	19MAY06	19MAY06	27JUN06	11JUL06	35
T110660	0	0	0	AWARD SECURITY	19MAY06	19MAY06	27JUN06	11JUL06	35
T110670	80	80	0	Submit Security Shop Drwgs	22MAY06	13SEP06	12JUL06	1NOV06	35
T110680	60	60	0	Appr Security Shop Drwgs	12JUL06	4OCT06	30AUG06	22NOV06	35
T110690	250	250	0	Coordinate & Fabricate Security	5OCT06	28SEP07	24NOV06	16NOV07	35
T110700	10	10	0	TCCO Issue Addendum Communication & IT	10APR06	21APR06	15MAY06	26MAY06	25
T110710	10	10	0	Revise Bid Per Addn Communication & IT	24APR06	5MAY06	30MAY06	12JUN06	25
T110720	10	10	0	TCCO Prep Bid Pkge Communication & IT	27FEB06	10MAR06	3APR06	14APR06	25
T110730	5	5	0	A/E Appr Scope Communication & IT	13MAR06	17MAR06	17APR06	21APR06	25
T110740	0	0	0	BID PKGE SENT COMMUNICATION & IT	20MAR06	17MAR06	24APR06	21APR06	25
T110750	15	15	0	Subs Prep Bids COMMUNICATION & IT	20MAR06	7APR06	24APR06	12MAY06	25
T110760	0	0	0	SUBMIT BIDS COMMUNICATION & IT	8MAY06	7APR06	13JUN06	12MAY06	25
T110770	10	10	0	Review Bids COMMUNICATION & IT	19MAY06	19MAY06	26JUN06	26JUN06	25
T110780	0	0	0	AWARD COMMUNICATION & IT	19MAY06	19MAY06	26JUN06	26JUN06	25
T110790	80	80	0	Submit Communication & IT Shop Drwgs	22MAY06	13SEP06	27JUN06	18OCT06	25

ACTIVITY ID	ORIG DUR	REM DUR	\$	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
T110800	60	60	0	Appr Communication & IT Shop Drawgs	12JUL06	4OCT06	16AUG06	8NOV06	25
T110810	310	310	0	Coordinate & Fabricate Communication & IT	9AUG06	28OCT07	14SEP06	3DEC07	25
T11500	0	0	0	SUBMIT TAA T-1: Foundations/Piles	16MAY05	15JUN05	15JUN05	23AUG05	21
T1200	49	49	0	PA REVIEW TAA T-1: Foundations/Piles	26JUL05	24AUG05	24AUG05	24AUG05	21
T12100	149	149	0	PA ISSUE RIDER A TAA T-1: Foundations/Piles	13JAN05	12AUG05	12APR06	9NOV06	316
T12150	0	0	0	Prepare Package T-12: Life Safety & Emer Egress	15AUG05	12APR06	10NOV06	19SEP05	316
T12200	18	18	0	SUBMIT TAA T-12: Life Safety & Emer Egress	26JUL05	18AUG05	24AUG05	22DEC06	21
T12210	30	30	0	Design Team Inc Rider A T-1: Foundations/Piles	15AUG05	26SEP05	10NOV06	26DEC06	316
T12220	0	0	0	PA ISSUE RIDER A TAA T-12: Life Safety & Emer Eg	27SEP05	7OCT05	26DEC06	8JAN07	316
T12250	9	9	0	Design Team Inc Rider A T-12: Life Safety & Emerg	27SEP05	7OCT05	26DEC06	22JAN07	316
T12300	0	0	0	PA ISSUE NTP T-12: Life Safety & Emer Egress	19AUG05	12SEP05	7OCT05	28OCT05	34
T12350	16	16	0	Foundations/Piles	21OCT05	12SEP05	7OCT05	11NOV05	34
T2100	208	208	0	PA ISSUE NTP T-1: Foundations/Piles	22OCT04	17AUG05	26NOV04	21SEP05	24
T2150	0	0	0	Prepare Package T-2: Structural	11JUL05	12AUG05	12AUG05	21SEP05	24
T2200	34	34	0	SUBMIT TAA T-2: Structural	11JUL05	25AUG05	12AUG05	29SEP05	24
T2210	0	0	0	PA REVIEW TAA T-2: Structural	26AUG05	30SEP05	30SEP05	30SEP05	24
T2220	10	10	0	PA ISSUE RIDER A TAA T-2: Structural	12SEP05	30SEP05	18NOV05	13OCT05	24
T2230	15	15	0	Design Team Inc Rider A TAA T-2: Structural	12SEP05	30SEP05	18NOV05	9DEC05	49
T2250	15	15	0	PA REVIEW RIDER A Response TAA T-2: Structural	14OCT05	14OCT05	23DEC05	23DEC05	49
T2300	203	203	0	PA ISSUE NTP T-2: Structural	25OCT04	11AUG05	14NOV04	13SEP05	22
T3100	0	0	0	Prepare Package T-3: Baggage Handling	12AUG05	23SEP05	14SEP05	25OCT05	22
T3200	30	30	0	SUBMIT TAA T-3: Baggage Handling	12AUG05	23SEP05	14SEP05	26OCT05	22
T3210	0	0	0	PA REVIEW TAA T-3: Baggage Handling	26SEP05	26SEP05	26OCT05	26OCT05	22
T3220	10	10	0	PA ISSUE RIDER A TAA T-3: Baggage Handling	26SEP05	26SEP05	26OCT05	26OCT05	22
T3250	0	0	0	Design Team Inc Rider A T-3: Baggage Handling	26SEP05	26SEP05	26OCT05	13JAN06	57
T4100	183	183	0	PA ISSUE NTP T-3: Baggage Handling	23NOV04	17AUG05	13JAN05	30SEP05	31
T4150	0	0	0	Prepare Package T-4: Exterior Envelope	12AUG05	23SEP05	27SEP05	27SEP05	31
T4200	30	30	0	SUBMIT TAA T-4: Exterior Envelope	12AUG05	23SEP05	6OCT05	16NOV05	38
T4210	0	0	0	PA REVIEW TAA T-4: Exterior Envelope	26SEP05	17NOV05	17NOV05	16NOV05	38
T4220	10	10	0	PA ISSUE RIDER A TAA T-4: Exterior Envelope	26SEP05	7OCT05	17NOV05	1DEC05	38
T4250	0	0	0	Design Team Inc Rider A TAA T-4: Ext Envelope	26SEP05	21OCT05	3NOV06	3NOV06	263
T4300	175	175	0	PA ISSUE NTP T-4: Exterior Envelope	9DEC04	17AUG05	9MAR05	11NOV05	61
T5150	0	0	0	Prepare Package T-5: Interior Construction	12AUG05	23SEP05	8NOV05	2FEB06	91
T5200	30	30	0	SUBMIT TAA T-5: Interior Construction	12AUG05	23SEP05	21DEC05	2FEB06	91
T5210	0	0	0	PA REVIEW TAA T-5: Interior Construction	26SEP05	7OCT05	3FEB06	16FEB06	91
T5220	10	10	0	Design Team Inc Rider A TAA T-5: Interior Constr	26SEP05	21OCT05	3FEB06	20MAR07	356
T5250	0	0	0	Prepare Package T-6: MEP	9DEC04	17AUG05	10MAR05	14NOV05	62
T6100	175	175	0	PA ISSUE NTP T-6: MEP	12AUG05	23SEP05	9NOV05	21DEC05	62
T6150	0	0	0	SUBMIT TAA T-6: MEP	12AUG05	23SEP05	22DEC05	21DEC05	62
T6200	30	30	0	PA REVIEW TAA T-6: MEP	26SEP05	7OCT05	22DEC05	6JAN06	62
T6210	0	0	0	Design Team Inc Rider A TAA T-6: MEP	26SEP05	7OCT05	22DEC05	22JAN07	316
T6220	10	10	0	PA ISSUE RIDER A TAA T-6: MEP	10OCT05	21OCT05	9JAN07	22JAN07	316
T6230	10	10	0	Design Team Inc Rider A TAA T-6: MEP	26SEP05	21OCT05	9JAN07	22JAN07	316
T6250	0	0	0	Prepare Package T-7: Vertical Transportation	16JUL04	11AUG05	11FEB05	10MAR06	146
T7100	273	273	0	SUBMIT TAA T-7: Vertical Transportation	12AUG05	23SEP05	13MAR06	21APR06	146
T7150	0	0	0	PA REVIEW TAA T-7: Vertical Transportation	12AUG05	23SEP05	13MAR06	21APR06	146
T7200	30	30	0	PA ISSUE RIDER A TAA T-7: Vertical Transportation	26SEP05	24APR06	24APR06	24APR06	146
T7210	0	0	0	Design Team Inc Rider A TAA T-7: Vertical Transport	26SEP05	7OCT05	24APR06	5MAY06	146
T7220	10	10	0	PA ISSUE NTP T-7: Vertical Transportation	26SEP05	7OCT05	24APR06	5FEB07	326
T7250	0	0	0	Prepare Package T-8: PLB	21OCT05	21OCT05	16JAN08	8FEB06	196
T8100	205	205	0	SUBMIT TAA T-8: PLB	21OCT05	21OCT05	16JAN08	8FEB06	196
T8150	0	0	0	PA REVIEW TAA T-8: PLB	12AUG05	23SEP05	22MAY06	3JUL06	196
T8200	30	30	0	PA ISSUE RIDER A TAA T-8: PLB	12AUG05	23SEP05	22MAY06	3JUL06	196
T8210	0	0	0	Design Team Inc Rider A TAA T-8: PLB	26SEP05	7OCT05	5JUL06	18JUL06	196
T8220	10	10	0	PA ISSUE NTP T-8: PLB	26SEP05	7OCT05	5JUL06	16JAN08	566
T8250	0	0	0	Prepare Package T-9: Security Data	10JAN05	17AUG05	30JUN05	3FEB06	121
T9100	155	155	0	SUBMIT TAA T-9: Security Data	12AUG05	23SEP05	3FEB06	17MAR06	121
T9150	0	0	0	PA REVIEW TAA T-9: Security Data	12AUG05	23SEP05	3FEB06	20MAR06	121
T9200	30	30	0	PA ISSUE RIDER A TAA T-9: Security Data	26SEP05	20MAR06	20MAR06	31MAR06	121
T9210	0	0	0	Design Team Inc Rider A TAA T-9: Security Data	26SEP05	7OCT05	20MAR06	31MAR06	121
T9220	10	10	0	PA ISSUE NTP T-9: Security Data	26SEP05	7OCT05	20MAR06	20MAR07	356

**Section 1.2**

**Terminal 5 At Grade Connector Schedule**



Project: Project1 Date: Thu 11/10/05	Task		Progress		Summary		External Tasks		Deadline	
	Split		Milestone		Project Summary		External Milestone			

**Section 1.3**

**Terminal 5-6 Parking Garage Schedule**

ID	Task Name	Start	Finish	2006												2007												2008
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan			
1	Planning	Mon 5/2/05	Mon 10/3/05	[Summary Bar]																								
3	Preliminary Design	Tue 11/1/05	Wed 2/1/06	[Summary Bar]																								
4	Prepare 20% Design	Tue 11/1/05	Wed 2/1/06	[Task Bar]																								
5	Contractor Selection	Wed 2/1/06	Wed 4/5/06	[Summary Bar]																								
6	Issue RFP for Design/Build	Wed 2/1/06	Thu 3/2/06	[Task Bar]																								
7	Review Proposals	Fri 3/3/06	Wed 3/15/06	[Task Bar]																								
8	Select and Award Contract	Thu 3/16/06	Wed 4/5/06	[Task Bar]																								
9	Final Design and Approval	Mon 4/10/06	Tue 8/1/06	[Summary Bar]																								
10	Design Drawings and Approval	Mon 4/10/06	Tue 8/1/06	[Task Bar]																								
11	Preliminary Site Preparation	Mon 7/17/06	Fri 10/13/06	[Summary Bar]																								
12	Site Preparation	Mon 7/17/06	Fri 10/13/06	[Task Bar]																								
13	Foundations	Fri 9/1/06	Fri 12/1/06	[Summary Bar]																								
14	Piles and Foundations	Fri 9/1/06	Fri 12/1/06	[Task Bar]																								
15	Superstructure	Mon 10/16/06	Mon 4/30/07	[Summary Bar]																								
16	Columns, Pre-Cast and Concrete	Mon 10/16/06	Mon 4/30/07	[Task Bar]																								
17	Vertical Circulation	Fri 3/2/07	Mon 9/3/07	[Summary Bar]																								
18	Elevator Core	Fri 3/2/07	Mon 9/3/07	[Task Bar]																								
19	Mechanical Electrical Plumbing	Tue 1/2/07	Wed 10/31/07	[Summary Bar]																								
20	Rough and Finish MEP	Tue 1/2/07	Wed 10/31/07	[Task Bar]																								
21	Site Roads	Mon 4/2/07	Wed 10/31/07	[Summary Bar]																								
22	Site Roads	Mon 4/2/07	Wed 10/31/07	[Task Bar]																								
23	Final Testing and Inspections	Mon 9/3/07	Mon 12/31/07	[Summary Bar]																								
24	Final Testing and Inspections	Mon 9/3/07	Mon 12/31/07	[Task Bar]																								

Project: Project1  
Date: Fri 11/11/05

Task [Task Bar] Progress [Progress Bar]  
Split [Split Bar] Milestone [Milestone Diamond]

Summary [Summary Bar] External Tasks [External Task Bar]  
Project Summary [Project Summary Bar] External Milestone [External Milestone Diamond]

Deadline [Down Arrow]