

**FORT LAUDERDALE - HOLLYWOOD INTERNATIONAL  
AIRPORT  
BROWARD COUNTY**

**FORT LAUDERDALE, FL**

**TERMINAL 4 IN-LINE BAGGAGE  
SCREENING DCP  
15% SCHEMATIC DESIGN  
COST ESTIMATE**

**March 25, 2014**

**PREPARED FOR:  
GRESHAM SMITH AND PARTNERS**

**PREPARED BY:  
CMS-CONSTRUCTION MANAGEMENT SERVICES, INC.  
CMS FILE # 2132**

**CMS-Construction Management Services, Inc.  
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**QUALIFICATIONS**

#	ITEM
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**SUMMARY NARRATIVE**

**1 Benchmarks**

Cost Analysis Benchmarks are based on previous estimates for terminal construction of comparable individual projects at the Fort Lauderdale/Hollywood International Airport, Fort Lauderdale Executive Airport, and Tampa International Airport with additional usage of CMS's extensive database. All S.F. costs are based on 2014 construction cost and market conditions.

**2 Construction Cost Mark-Ups:**

- a) Design Contingency of 18%
- b) Contractor's General Conditions of 18% which includes General Liability and Builder's Risk Insurances
- c) Contractor's Overhead of 3%
- d) Contractor's Profit of 5%
- e) PP Bond of 1.5%
- f) Owner's Soft Cost of 20%

**3 THIS ESTIMATE IS BASED ON PLANS & SPECIFICATIONS BY GRESHAM SMITH AND PARTNERS , WITH ADDITIONAL INFORMATION FROM MEETING ON 3/24/2014 WITH GRESHAM SMITH AND PARTNERS.**

**4 Due to the present volatile nature of the construction market, construction material cost could change substantially prior to construction.**

**5 ESCALATION COST OF (1.5% per year for one(1) year) is included.**

**6 Premium time is NOT included.**

**7 New utility systems extend to the boundary of area of work Only.**

**8 Temporary connection to existing utility systems is NOT included.**

**9 Fire marshal cost is included.**

**10 Asbestos abatement / removal is NOT included.**

**11 Lead Paint abatement / removal is NOT included.**

**12 Impact fees or other utility company charges are NOT included.**

**13 TSA Equipment are NOT included.**

**14 Connections or extension to existing interior terminals #4 utility systems is NOT included.**

**15 Construction phasing is included in unit costs.**

**16 Relocation of existing MCP's by others.**

**17 New MCP's included in Baggage Handling System**

Appendix F: Reimbursable/Nonreimbursable Costs for the Electronic Baggage Screening Program  
Attachment F-A

CURRENT WORKING ESTIMATE SUMMARY		Prepared by: Gary Weinstein				
AIRPORT IDENTIFIER:		FORT LAUDERDALE - HOLLYWOOD INTERNATIONAL AIRPORT				
PROJECT NAME:		TERMINAL 4 IN - LINE BAGGAGE SCREENING DCP				
ESTIMATED PROJECT COMPLETION DATE:		Estimate Construction Cost at Award (\$'s)				
Current Working Estimate - Effective Pricing Date:		3/20/2014				
Current Working Estimate - Level of Design:		15% Schematic Design	CBIS Matrix Estimate	CBRA Area Estimate	OSR Room Estimate	Non Allocable Estimate (NA)
Currency:		US				TOTAL ESTIMATE ALLOCABLE
<b>HARD COSTS (ECCA)</b>						
<b>BAGGAGE HANDLING SYSTEM/CHECKED BAGGAGE INSPECTION SYSTEM COSTS</b>						
Div. 34 Transportation includes items below						
Project Management		\$ 336,567	\$ 37,921	\$ -	\$ -	\$ 374,488
Equipment		\$ 4,653,000	\$ 524,250	\$ -	\$ -	\$ 5,177,250
Installation		\$ 2,078,340	\$ 234,165	\$ -	\$ -	\$ 2,312,505
Engineering		\$ 168,284	\$ 18,960	\$ -	\$ -	\$ 187,244
Controls		\$ 572,164	\$ 64,465	\$ -	\$ -	\$ 636,629
Testing		\$ 235,597	\$ 26,545	\$ -	\$ -	\$ 262,141
<b>a. Subtotal BHS (Rounded)</b>		<b>\$ 8,043,951</b>	<b>\$ 906,306</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 8,950,257</b>
<b>OTHER CONSTRUCTION RELATED COSTS</b>						
Div. 1 General Requirements		\$ 1,623,278	\$ 219,243	\$ 10,779	\$ 112,214	\$ 1,965,514
Div. 2 Existing Conditions					\$ 553,959	\$ 553,959
Div. 3 Concrete		\$ 39,825	\$ 8,949	\$ 1,213	\$ 21,521	\$ 71,508
Div. 4 Masonry		\$ 36,799			\$ 9,090	\$ 45,889
Div. 5 Metals		\$ 29,377				\$ 29,377
Div. 6 Woods and Plastics and Composites						\$ -
Div. 7 Thermal and Moisture Protection		\$ 5,647	\$ 4,347	\$ 1,833	\$ 2,155	\$ 13,982
Div. 8 Openings		\$ 7,400	\$ 7,300	\$ 3,700	\$ 3,700	\$ 22,100
Div. 9 Finishes		\$ 18,931	\$ 66,432	\$ 20,414	\$ 22,463	\$ 128,239
Div. 10 Specialities						\$ -
Div. 11 Equipment						\$ -
Div. 12 Furnishings						\$ -
Div. 13 Special Construction						\$ -
Div. 14 Conveying Systems4						\$ -
Div. 21 Fire Suppression		\$ 129,125	\$ 31,838	\$ 4,366	\$ 3,247	\$ 168,575
Div. 22 Plumbing		\$ 36,852				\$ 36,852
Div. 23 Heating Ventilation and Air Conditioning		\$ 135,654	\$ 63,666	\$ 10,632		\$ 209,952
Div. 25 Integrated Automation		\$ 14,404	\$ 3,551	\$ 481	\$ 361	\$ 18,798
Div. 26 Electrical		\$ 456,252	\$ 79,745	\$ 13,108	\$ 6,064	\$ 555,169
Div. 27 Communications		\$ 22,470	\$ 5,540	\$ 751	\$ 564	\$ 29,324
Div. 28 Electronic Safety and Security		\$ 41,523	\$ 40,341	\$ 3,385	\$ 289	\$ 85,538
Div. 31 Earthwork						\$ -
Div. 32 Exterior Improvements						\$ -
Div. 33 Utilities						\$ -
Div. 34 Transportation w/o BHS						\$ -
Div. 35 Waterway and Marine Construction						\$ -
Div. 40 Process Integration						\$ -
Div. 41 Material Processing and Handling Equipment						\$ -
Div. 42 Process Heating, Cooling and Drying Equipment						\$ -
Div. 43 Process Gas and Liquid Handling, Purification and Storage Equipment						\$ -
Div. 44 Pollution Control Equipment						\$ -
Div. 45 Industry Specific Manufacturing Equipment						\$ -
Div. 48 Electrical Power Generation						\$ -
<b>b. Subtotal Other Construction Related Costs (Rounded)</b>		<b>\$ 2,597,537</b>	<b>\$ 530,952</b>	<b>\$ 70,661</b>	<b>\$ 735,626</b>	<b>\$ 3,934,776</b>
<b>PRIME CONTRACTOR MARK-UPS</b>						
Insurance & Bond	1.50%	\$ 159,622	\$ 21,559	\$ 1,060	\$ 11,034	\$ 193,275
Home Office Overhead	3.00%	\$ 319,245	\$ 43,118	\$ 2,120	\$ 22,069	\$ 386,551
Profit	5.00%	\$ 532,074	\$ 71,863	\$ 3,533	\$ 36,781	\$ 644,252
Sales Tax (Material only)	6.00%	\$ 331,131	\$ 42,074	\$ 1,413	\$ 14,713	\$ 389,331
Design Contingency	18.00%	\$ 1,915,468	\$ 258,706	\$ 12,719	\$ 132,413	\$ 2,319,306
<b>c. Contactor Mark-ups (Rounded)</b>		<b>\$ 3,257,540</b>	<b>\$ 437,320</b>	<b>\$ 20,845</b>	<b>\$ 217,010</b>	<b>\$ 3,932,715</b>
<b>Hard Costs Subtotal (a + b + c)</b>		<b>\$ 13,899,028</b>	<b>\$ 1,874,578</b>	<b>\$ 91,506</b>	<b>\$ 952,636</b>	<b>\$ 16,817,748</b>
<b>SOFT COSTS</b>						
Construction Contingency	5.00%	\$ 694,951	\$ 93,729	\$ 4,575	\$ 47,632	\$ 840,887
Design w/Const. Admin.	8.00%	\$ 1,111,922	\$ 149,966	\$ 7,320	\$ 76,211	\$ 1,345,420
Project & Construction Management	7.00%	\$ 972,932	\$ 131,220	\$ 6,405	\$ 66,685	\$ 1,177,242
Escalation	1.50%	\$ 208,485	\$ 28,119	\$ 1,373	\$ 14,290	\$ 252,266
<b>Soft Costs Subtotal</b>		<b>\$ 2,988,291</b>	<b>\$ 403,034</b>	<b>\$ 19,674</b>	<b>\$ 204,817</b>	<b>\$ 3,615,816</b>
<b>TOTAL ESTIMATED COSTS (TEC) (Current \$'s)</b>		<b>\$ 16,887,319</b>	<b>\$ 2,277,612</b>	<b>\$ 111,179</b>	<b>\$ 1,157,453</b>	<b>\$ 20,433,564</b>