

29 April 2016

Milton Collins
Assistant Division Director
Minority Affairs Division

Carolina de la Horra
Project Manager

Re: Recommendation for Contract Measures
MIA British Airways D21 Galleries Lounge
TAC-N project # T-172B

Architecture
Engineering
Interior Design
Program Management
Construction Management

Dear Mr. Collins,

By way of this memorandum, we are requesting that the referenced projects be reviewed and recommended for contract measures. Please advise Carolina de la Horra (Heery PM) and Sergio Negreira (MDAD PM) if the project is recommended for the Review Committee and any respective meeting where this item will be considered.

Project: MIA BA D21 Galleries Lounge
Package "B"

Background: The MIA BA D21 Galleries Lounge is an approximately 11,000 sf premium lounge located on the 3rd level near D21 and is privately funded by British Airways.

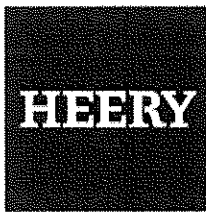
Scope: The British Airways Lounge project will be a high-end finish out of an existing shell space on the 3rd level near D21. The project will include the addition of a kitchen, restrooms with associated showers, a full bar and a dining/seating area for British Airways guests. New gypsum board ceiling and soffits will be installed throughout and will require the relocation/modification of existing utilities to accommodate the new ceilings. Plumbing, electrical and mechanical infrastructure will need to be installed for the kitchen, bars, restrooms and showers that are being added to the space. Low voltage cabling for cable TV, data ports and surround sound/central lighting systems will also be included in this scope.

Heery International, Inc.

A group of professional service practices
811 Ponce de Leon Boulevard, Coral Gables, Florida 33134-3007
Telephone 305 441-1556 Fax 305 445-2374

AA0002293/EB005178

Offices Nationwide



High-end custom millwork will be installed throughout the footprint of the lounge. Specific wall detailing along with wood/porcelain tile flooring that extends throughout the footprint of the Lounge are accompanied by various high-end light fixtures accenting the different areas. Custom artwork and furnishings that are British Airways standards will be purchased and installed by the project. Detailed signage displaying the BA branding as well as Lounge information will also be included in the project scope.

Architecture
 Engineering
 Interior Design
 Program Management
 Construction Management

Terms of the

Contract: 238 calendar days

Contract

Estimated

Amount: \$6,303,425.00 (+10% Construction Contingency) = \$6,933,767.00

Recommended

Measures: CSBE Responsible Wages

Please call me at 786-229-2585 if you have any additional questions.

Sincerely,

Carolina de la Horra
 Project Manager

Attachments: Project Sheets A102
 Project 100% Estimate, dated April 25, 2016

Cc: Sergio Negreira (MDAD)

Heery International, Inc.

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 811 Ponce de Leon Boulevard, Coral Gables, Florida 33134-3007
 Telephone 305 441-1558 Fax 305 445-2374

Offices Nationwide

AA0002293/EB005176

MIA D21 Galleries Lounge
 Package "B" – British Airways Lounge
 Project # T-172B

Community Workforce Program Project Analysis Goal Recommendation

Refer to attached 100% Cost Estimate dated April 25, 2016

Trade	Estimated # of Workforce Req'd per Trade	Estimated # of Total Days to Complete Job	Estimated Cost per Trade
1. General	8	238	312,980.00
2. Sitework-Demolition	2	10	63,622.00
3. Concrete	0	0	0.00
4. Masonry	0	0	0.00
5. Metals	5	90	158,873.00
7. Thermal & Moisture Protection	3	30	100,020.00
8. Doors	3	10	94,450.00
9. Finishes	9	180	974,107.00
15. Mechanical	8	180	995,570.00
16. Electrical	8	180	804,046.00
16. Communications	2	75	74,165.00
16. Electronic Safety & Security	3	50	118,606.00
Prime Contractor Mark-Ups			822,186.00
Total Construction Costs			4,518,625.00

Specialties	Estimated Cost per Package
6. Custom Millwork	668,446.00
10. Specialties: Restroom Accessories, Lockers, Signage	92,866.00
11. Equipment-Kitchen & Bar Equipment	496,001.00
12. Furnishing - Allowance fo FF&E & Artwork	527,487.00
Total for Goods & Services	1,784,800.00

Note: Total amount for Goods & Services is less that the \$2.5 million threshold. Therefore, SBE goals are not required for these items.



Estimate of Probable Construction Cost

**MIA D21 Galleries Lounge
Package 'B'
100% Submittal**

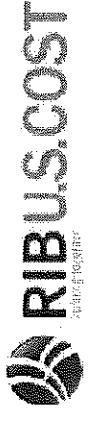
April 25, 2016

Prepared for:



Bermello Ajamil & Partners, Inc.

Prepared by:



GSF			
11,144	312,980	28	
11,144	63,622	6	
11,144	-	-	
11,144	-	-	
11,144	158,873	14	
11,144	668,446	60	
11,144	100,020	9	
11,144	94,450	8	
11,144	974,107	87	
11,144	92,866	8	
11,144	496,001	45	
11,144	527,487	47	
11,144	-	-	
11,144	-	-	
11,144	995,570	89	
11,144	996,817	89	
	822,186		
11,144	6,303,425	566	
	630,342	57	
	441,240	40	
	908,211	81	
	1,979,793	178	
	8,283,218	743	

- Each Trade will be Competitively Bid by the General Contractor

- Access to the construction area will be through the landside public entrance at Concourse D.

- All Materials will be brought to the site from the public entrance at Concourse D. Access to the site from the airside is not included, nor a crane for lifting materials. All materials will be carted to level 3 via public elevators and stairs.

- Construction will take place during normal business hours except for plumbing, electrical power and communication wiring that will be installed at the Concourse Level below the Level 3 floor slab. Plumbing & Electrical Work at the Concourse Level is within the existing Chicken Kitchen restaurant and the TSA checkpoint therefore work in these areas will require being done after hours. Plumbing & Electrical labor rates include a premium for shift work as well as an adjustment for greatly reduced productivity for work at the Concourse level.

- Project Area: Concourse Level 386 GSF
 Assembly/VIP Lounge 10,758 GSF
Total Project Area 11,144 GSF

- Millwork was estimated based on Millwork Key Plan A-103 and the associated detail drawings.

- An Allowance for the Artwork is included in Furnishings and is based on an approximate area of the lounge (7,680 sf) x \$10/sf.

Exclusions:

- Computers, monitors and/or printers at Check In Area and at Work Stations
- New HVAC Equipment including AHU's (not shown on drawings, not anticipated)
- Grease Trap - Plans show that GW pipe is connected to existing Grease trap.
- New Sprinkler System - assumes the existing is adequate and will be reconfigured with the club space finish out.
- Gas service and connections
- Tenant Relocation Costs (British Airways and/or existing tenant at Concourse Level)
- Hazardous Material Removal including Mastec or Asbestos.
- Overtime or night Work - Expect for Electrical Power and Communication at Concourse Level
- Water Coolers, Drinking Fountains

British Airways D21 Galleries Lounge
 Package B - 100% Submittal
 Estimate of Probable Construction Cost
 Bernello Ajamil & Partners, Inc

Summary Report

<u>WBS LEVEL DESCRIPTION</u>	<u>QTY</u>	<u>UNIT</u>	<u>TOTAL</u>
British Airways - MIA D21 Galleries Lounge-Pkg B 100% Design - Construction Cost			
--- 1. General Conditions	11,144	GSF	\$6,303,425
--- General Conditions	11,144	GSF	\$312,980
--- 2. Site Work - Demolition	1	LS	\$312,980
--- Architectural & Structural Demolition	11,144	GSF	\$63,622
--- Architectural & Structural Demolition	1	LS	\$63,622
--- 3. Concrete	11,144	GSF	\$0
--- 4. Masonry	11,144	GSF	\$0
--- 5. Metals	11,144	GSF	\$158,873
--- Metal Framing for Ceiling Construction	1	LS	\$107,123
--- Ornamental Metal	1	LS	\$50,313
--- Metal/Glass Handrails	1	LS	\$1,438
--- 6. Custom Millwork	11,144	GSF	\$668,446
--- Millwork	1	LS	\$668,446
--- 7. Thermal Control	11,144	GSF	\$100,020
--- Fire Stopping at Penetrations	1	ALLOW	\$30,000
--- Expansion Joint	260	LF	\$27,750
--- Fireproofing	11,144	SF	\$4,000
--- Roofing Patch	200	SF	\$3,000
--- Spray-on Insulation	7,054	SF	\$35,270
--- 8. Doors	11,144	GSF	\$94,450
--- Interior Doors & Hardware	110	EA	\$94,450
--- 9. Finishes	11,144	GSF	\$974,107
--- Interior Partitions	15,500	SF	\$284,446
--- Ceiling Finishes	11,144	SF	\$204,360
--- Floor Finishes	11,144	SF	\$151,681
--- Wall Finishes	18,475	SF	\$333,620
--- 10. Specialties	11,144	GSF	\$92,866
--- Lounge Signage	28	EA	\$62,796
--- Lockers	1	ALLOW	\$5,000

British Airways D21 Galleries Lounge
 Package B - 100% Submittal
 Estimate of Probable Construction Cost
 Bernello Ajamil & Partners, Inc

Summary Report

<u>WBS LEVEL DESCRIPTION</u>	<u>QTY</u>	<u>UNIT</u>	<u>TOTAL</u>
--- Restroom Specialties	1	LS	\$25,070
--- 11. Equipment - Kitchen & Bar Equipment	11,144	GSF	\$496,001
--- Kitchen and Bar Food Service Equipment	11,144	GSF	\$496,001
--- 12. Furnishings	11,144	GSF	\$527,487
--- Furniture (Sofa, Chairs, Cushions, Stools, Tables, Lamps, spare cushions)	7,680	SF	\$450,687
--- ALLOWANCE for Artwork	7,680	SF	\$76,800
--- 13. Special Construction	11,144	GSF	\$0
--- 14. Conveying Systems	11,144	GSF	\$0
--- 15. Mechanical	11,144	GSF	\$995,570
--- Fire Protection	11,144	GSF	\$251,294
--- Plumbing	11,144	GSF	\$320,995
--- H.V.A.C.	11,144	GSF	\$423,280
--- 16. Electrical, Communications and Electronic Safety & Security	11,144	GSF	\$996,817
--- Electrical	11,144	GSF	\$804,046
--- Communications	11,144	GSF	\$74,165
--- Electronic Safety and Security	11,144	GSF	\$118,606
--- Prime Contractor MarkUps	1	LS	\$822,186
--- Prime Contractor Markup	1	LS	\$822,186

British Airways - MIA D21 Galleries Lounge-Pkg B 100% Design - Construction Cost

	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB-TOTAL</u>	<u>LEVEL TOTAL</u>
1. General Conditions					
General Conditions					
1 Remove Temporary Partition at Public Concourse Area - Assume 12H	550.00	SF	10.00	\$5,500	
2 Repair Terrazzo after Temporary Partition Removal	1,000.00	SF	12.48	\$12,480	
3 Daily Clean Up at TSA and Chicken Kitchen Grill, during electrical and Plumbing Install	3.00	MO	15,000.00	\$45,000	
4 Allowance for Night Work during Electrical and Plumbing Install at TSA and Chicken Kitchen Grill	1.00	ALLOW	50,000.00	\$50,000	
5 Allowance to Take Down Existing ACT and Hard Ceilings and Mech. Ductwork as required to install Plumbing lines and Electrical Poke-Throughs and Electrical conduits. Re-install ceilings and mech. ductwork after plumbing and electrical scopes are completed	1.00	ALLOW	125,000.00	\$125,000	
6 Allowance for Material Hauling from Curbside to Level 3, All Materials including demo debris	1.00	ALLOW	75,000.00	\$75,000	
				\$312,980	\$312,980
2. Site Work - Demolition					
Architectural & Structural Demolition					
7 Building Elements Demolition	1.00	NOTE	0.00	\$0	
8 Int. demolition Arch - Portion of Partition to Build Doorway @ Level 3 Lounge @12'	571.00	SF	5.00	\$2,855	
9 Int. demolition Arch - Remove Door & Frame	1.00	EA	300.00	\$300	
10 Int. demolition Arch - Remove ACT Ceiling at Level 3 Hallway Area	77.00	SF	3.00	\$231	
11 Haul Demo Debris	100.00	CY	90.00	\$9,000	
12 Wheel Barrow Demo Debris to curb	100.00	CY	105.00	\$10,500	
13 Int. demolition Arch - Demolish Bump Out @ Level 3 Lounge @ 12'0"	36.00	SF	5.00	\$180	
14 Int. demolition Arch - Chainlink Fence @ Level 3 Lounge @ 8'	117.00	LF	3.00	\$351	
15 Chip Concrete base around column flush with existing slab	4.00	EA	1,500.00	\$6,000	
16 Demolish existing thermostats & strobe lights inside the footprint of the lounge	1.00	LS	1,000.00	\$1,000	
17 Demolish existing strobe lights inside the footprint of the lounge	1.00	LS	1,000.00	\$1,000	
				\$63,622	\$63,622

British Airways - MIA D21 Galleries Lounge-Pkg B 100% Design - Construction Cost

	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUBTOTAL</u>	<u>LEVEL TOTAL</u>
2. Site Work - Demolition					
Architectural & Structural Demolition					
18 Demolish North face of chase and 24" x 24" access panel	1.00	LS	\$63,622	\$63,622	\$63,622
19 Demolish abandoned overhead steel framing, angles, channels, and bracing	155.00	LF	2,000.00	\$2,000	\$19,375
20 Demo Terrazzo Flooring	143.00	SF	10.00	\$1,430	
21 SECOND LEVEL	1.00	NOTE	0.00	\$0	
22 Remove ACT & Hard Ceilings to allow for MEP work above	3,000.00	SF	3.00	\$9,000	
23 ROOF DEMO	1.00	NOTE	0.00	\$0	
24 Remove Roofing Around New Mech Equipment	200.00	SF	2.00	\$400	

	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUBTOTAL</u>	<u>LEVEL TOTAL</u>
5. Metals					
Metal Framing for Ceiling Construction					
25 LOUNGE	1.00	NOTE	0.00	\$0	\$107,123
26 Metal Stud Framing for GWB Ceiling	7,220.00	SF	11.50	\$83,030	
27 Metal Stud Framing for GWB Soffits at Coffered Ceilings	1,120.00	SF	11.50	\$12,880	
28 RESTROOMS	1.00	NOTE	0.01	\$0	
29 Metal Stud Framing for GWB Ceiling	975.00	SF	11.50	\$11,213	

	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUBTOTAL</u>	<u>LEVEL TOTAL</u>
5. Metals					
Ornamental Metal					
30 Stair Brushed Stainless Steel Handrail	80.00	LF	287.50	\$23,000	
31 1/4" Stainless Steel Reveal Joints	50.00	LF	57.50	\$2,875	
32 Round Stainless Steel Column Enclosure Including Base at Concourse Level	130.00	SF	97.75	\$12,708	
33 Schindler 1-1/2" Round Handrail #4 Brushed SS	30.00	LF	287.50	\$8,625	

British Airways - MIA D21 Galleries Lounge-Pkg B 100% Design - Construction Cost

	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
5. Metals					
Ornamental Metal					
34 Schindler Metal Cab Finish #4 Brushed SS	45.00	SF	69.00	\$3,105	\$50,313
					\$50,313
5. Metals					
Metal/Glass Handrails					
35 CONCOURSE LEVEL	1.00	NOTE	0.00	\$0	
36 Metal/Glass Handrail	5.00	LF	287.50	\$1,438	\$1,438
					\$1,438
6. Custom Millwork					
Millwork					
37 1. Reception Pods	2.00	EA	9,343.75	\$18,688	
38 LED Lighting	16.00	LF	23.00	\$368	
39 Transformer	2.00	EA	40.25	\$81	
40 3NO. Double Sockets and 3NO Data sockets with SS face plates each	12.00	EA	69.00	\$828	
41 2NO 80mm dia white cable passes each	2.00	EA	46.00	\$92	
42 2. Newspaper and Magazine Table # 1	2.00	EA	4,456.25	\$8,913	
43 3. Console Table	2.00	EA	3,162.50	\$6,325	
44 5. Wine Wall	1.00	EA	17,250.00	\$17,250	
45 LED Lighting	5.00	LF	23.00	\$115	
46 LED Lighting Strip	28.00	LF	23.00	\$644	
47 4" Brushed SS Base	14.00	LF	40.25	\$564	
48 Transformer	1.00	EA	40.25	\$40	
49 +ø Clear, low-iron, toughened & laminated glass back panel	30.00	SF	69.00	\$2,070	
50 Steel Structure for Wine rack: 1-1/2øx1-1/2øx1/8ø Mild Steel Box Support Frame	40.00	LF	40.25	\$1,610	
51 Steel Structure for Wine rack: Full Height 3NO SS side plates attached to Frame	8.00	SF	34.50	\$276	
					\$668,446
					\$668,446

British Airways - MIA D21 Galleries Lounge-Pkg B 100% Design - Construction Cost

	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
6. Custom Millwork					
Millwork	1	LS	\$668,446	\$668,446	\$668,446
112 SS 05 Vanity Counter Quartz Finish on Marine Ply Substrate	68.00	SF	138.00	\$9,384	
113 PL 01 Plastic Laminate Finish	65.00	SF	28.75	\$1,869	
114 Millwork Contingency on Quote received -15%	1.00	LS	105,800.00	\$105,800	
7. Thermal Control					
Fire Stopping at Penetrations	1	ALLOW	\$30,000	\$30,000	\$30,000
115 Allowance for Fire Stopping at Duct, Plumbing & Electrical Pipe Penetrations	1.00	ALLOW	30,000.00	\$30,000	
7. Thermal Control					
Expansion Joint	260	LF	\$107	\$27,750	\$27,750
116 Expansion Joint Cover on the Existing Glass Wall	50.00	LF	35.00	\$1,750	
117 Expansion Joint Cover on the Floor	260.00	LF	50.00	\$13,000	
118 Expansion Joint Cover on the Ceiling	260.00	LF	50.00	\$13,000	
7. Thermal Control					
Fireproofing	11,144	SF		\$4,000	\$4,000
119 PATCH Sprayed Fireproofing of the Existing Steel Structure	1,000.00	SF	4.00	\$4,000	

British Airways - MIA D21 Galleries Lounge-Pkg B 100% Design - Construction Cost

	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
7. Thermal Control					
Roofing Patch	200	SF	\$15	\$3,000	\$3,000
120 PATCH Roofing Around Roof-top Mech Equipment	200.00	SF	15.00	\$3,000	
7. Thermal Control					
Spray-on Insulation	7,054	SF	\$5	\$35,270	\$35,270
121 SPRAY-ON INSULATION BELOW ROOF SLAB	7,054.00	SF	5.00	\$35,270	
8. Doors					
Interior Doors & Hardware	110	EA	\$859	\$94,450	\$94,450
122 LOUNGE	1.00	NOTE	0.00	\$0	
123 Door 109 - Concorde Dining Door Stainless Steel 3'W x7'H (Hardware Included)	1.00	EA	2,500.00	\$2,500	
124 Door 121 - Preflight Service Area Wood Core 3'W x 7'H (Hardware Included)	1.00	EA	1,500.00	\$1,500	
125 Door 134 - Preflight Service Area Stainless Steel 3'W x 7'10"H (Hardware Included)	1.00	EA	1,800.00	\$1,800	
126 100% Opacity Frosted Film on Existing Glass Partition	500.00	SF	15.00	\$7,500	
127 18"x18" Access Panel	6.00	EA	200.00	\$1,200	
128 24"x24" Access Panel	52.00	EA	250.00	\$13,000	
129 36"x36" Access Panel	6.00	EA	300.00	\$1,800	
130 RESTROOMS	1.00	NOTE	0.00	\$0	
131 Door 110 - Shower Corridor Wood Core 3'W x 7'H (Hardware Included)	1.00	EA	1,500.00	\$1,500	
132 Door 110A - Glass Shower Door Unisex Toilet & Shower 32"W x 7'H (Includes Hardware)	1.00	EA	2,200.00	\$2,200	
133 Door 111 - ADA Showers Wood Core 3'W x 7'H (Hardware Included)	1.00	EA	1,500.00	\$1,500	
134 Door 112 - ADA Toilets Wood Core 3'W x 7'H (Hardware Included)	1.00	EA	1,500.00	\$1,500	
135 Door 113 -Mens Bathroom Wood Core 3'W x 7'H (Hardware Included)	1.00	EA	1,500.00	\$1,500	

British Airways D21 Galleries Lounge
 Package B - 100% Submittal
 Estimate of Probable Construction Cost
 Bermello Ajamil & Partners, Inc

ESTIMATE DETAIL - UNIT COST REPORT

British Airways - MIA D21 Galleries Lounge-Pkg B 100% Design - Construction Cost

	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
8. Doors					
Interior Doors & Hardware				\$94,450	\$94,450
110	EA	\$859			
136 Door 114 - Rstrm Chase Hollow Metal 2'W x 7'H (Hardware Included)	1.00	EA	1,500.00	\$1,500	\$1,500
137 Door 115 - Janitor Closet Wood Core 3'W x 7'H (Hardware Included)	1.00	EA	1,500.00	\$1,500	\$1,500
138 Door 116 - Shower Corridor Wood Core 3'W x 7'H (Hardware Included)	1.00	EA	1,500.00	\$1,500	\$1,500
139 Door 117 - Rstrm Chase Hollow Metal 2'W x 7'H (Hardware Included)	1.00	EA	1,500.00	\$1,500	\$1,500
140 Door 118 - Women Bathroom Wood Core 3'W x 7'H (Hardware Included)	1.00	EA	1,500.00	\$1,500	\$1,500
141 Door 119 - Rstrm Chase Hollow Metal 2'W x 7'H (Hardware Included)	1.00	EA	1,500.00	\$1,500	\$1,500
142 Door 120 - Janitor Closet Wood Core 3'W x 7'H (Hardware Included)	1.00	EA	2,200.00	\$2,200	\$2,200
143 Door 109 - Restroom Chase Hollow Metal Door and Frame 2'W x 7'H (Hardware Included)	1.00	EA	1,500.00	\$1,500	\$1,500
144 Door 111 - ADA Shower Room Wood Core Door and Frame 3'W x 7'H (Hardware Included)	1.00	EA	1,500.00	\$1,500	\$1,500
145 Door 112 - ADA Restroom Wood Core Door and Frame 3'W x 7'H (Hardware Included)	1.00	EA	1,500.00	\$1,500	\$1,500
146 Door 113A - Shower Room Wood Core Door and Frame 3'W x 7'H (Hardware Included)	1.00	EA	1,500.00	\$1,500	\$1,500
147 Door 113B - Shower Glass Door 2'-8" x 7'H (Hardware Included)	1.00	EA	2,200.00	\$2,200	\$2,200
148 Door 119 - ADA Restroom Wood Core Door and Frame 3'W x 7'H (Hardware Included)	1.00	EA	1,500.00	\$1,500	\$1,500
149 Touch Latch Plastic Laminate Doors and Hardware Storage Closet	5.00	EA	3,000.00	\$15,000	\$15,000
150 24"x24" Access Panel	6.00	EA	250.00	\$1,500	\$1,500
151 36"x36" Access Panel	1.00	EA	350.00	\$350	\$350
152 KITCHEN	1.00	NOTE	0.00	\$0	\$0
153 Door 103 - Office Glass Door 3'W x 7'H (Hardware Included)	1.00	EA	2,200.00	\$2,200	\$2,200
154 Door 135 - Staff Room Wood Core 3'W x 7'H (Hardware Included)	1.00	EA	1,500.00	\$1,500	\$1,500
155 Door 136 - Staff Room Wood Core 3'W x 7'H (Hardware Included)	1.00	EA	1,500.00	\$1,500	\$1,500
156 Door 130A - Catering Storage Hollow Metal 3'W x 7'H (Hardware Included)	1.00	EA	1,800.00	\$1,800	\$1,800
157 Door 130B - Catering Storage Hollow Metal 3'W x 7'H (Hardware Included)	1.00	EA	1,800.00	\$1,800	\$1,800
158 Door 130C - Electrical Room 3'W x 7'H (Hardware Included)	1.00	EA	1,800.00	\$1,800	\$1,800

British Airways - MIA D21 Galleries Lounge-Pkg B 100% Design - Construction Cost

	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
8. Doors					
Interior Doors & Hardware					
159 Door 132A - Kitchen Serv Door Stainless Steel 3'W x 7'H (Hardware Included)	1.00	EA	\$859	\$94,450	\$94,450
160 Door 132B - Kitchen Corridor Stainless Steel 3'W x 7'H (Hardware Included)	1.00	EA	2,500.00	\$2,500	\$2,500
161 Door 133 - Storage Wood Core 3'W x 7'H (Hardware Included)	1.00	EA	1,500.00	\$1,500	\$1,500
162 Door 138 - Kitchen Corridor Wood Core 3'W x 7'H (Hardware Included)	1.00	EA	1,500.00	\$1,500	\$1,500
163 24"x24" Access Panel	1.00	EA	250.00	\$250	\$250
164 36"x36" Access Panel	1.00	EA	350.00	\$350	\$350

	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
9. Finishes					
Interior Partitions					
165 LOUNGE	1.00	NOTE	0.00	\$0	\$0
166 Wall Type 1A - 1-HR Rated GWB Partition with BATT Insulation	93.00	SF	18.00	\$1,674	\$1,674
167 Wall Type 3 - Typical GWB Partition	918.00	SF	14.00	\$12,852	\$12,852
168 Wall Type 3A - Typical GWB Partition Unfinished One Side	762.00	SF	14.00	\$10,668	\$10,668
169 Wall Type 3B - Typical GWB Partition with 18GA Unfinished One Side	3,066.00	SF	14.00	\$42,924	\$42,924
170 Wall Type 12 - Furr-Out GWB Partition	840.00	SF	10.00	\$8,400	\$8,400
171 Privacy Screen (4-A-409)	20.00	LF	1,000.00	\$20,000	\$20,000
172 Wall Type 15 - Low Partition with Clear Glass Above to Ceiling	38.00	LF	350.00	\$13,300	\$13,300
173 Glass Partition at Councourse Level Lobby	90.00	SF	55.00	\$4,950	\$4,950
174 RESTROOMS	1.00	NOTE	0.00	\$0	\$0
175 Wall Type 1A - 1-HR Rated GWB Partition with BATT Insulation	1,016.00	SF	18.00	\$18,288	\$18,288
176 Wall Type 3A - Typical GWB Partition Unfinished One Side	220.00	SF	14.00	\$3,080	\$3,080
177 Wall Type 4 - Typical Toilet Perimeter GWB Partition	1,983.00	SF	18.00	\$35,694	\$35,694
178 Wall Type 4B - Typical Toilet Perimeter GWB Partition	495.00	SF	18.00	\$8,910	\$8,910
179 Wall Type 5 - Typical Toilet Chase GWB Partition with BATT Insulation	575.00	SF	20.00	\$11,500	\$11,500
180 Wall Type 6A - Stall Divider GWB Partition	241.00	SF	14.00	\$3,374	\$3,374
181 Wall Type 9B - Shower Stall/Lavatory GWB Partition	1,172.00	SF	14.00	\$16,408	\$16,408
	15,500	SF	\$18	\$284,446	\$284,446

British Airways - MIA D21 Galleries Lounge-Pkg B 100% Design - Construction Cost

	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
9. Finishes					
Interior Partitions			\$18	\$284,446	\$284,446
182 KITCHEN	1.00	NOTE	0.00	\$0	
183 Wall Type 1A - 1-HR Rated GWB Partition with BATT Insulation	2,625.00	SF	18.00	\$47,250	
184 Wall Type 2A - Non Rated GWB Partition with BATT Insulation	1,068.00	SF	18.00	\$19,224	
185 Wall Type 3 - Typical GWB Partition	425.00	SF	14.00	\$5,950	
	11,144	SF	\$18	\$204,360	\$204,360
9. Finishes					
Ceiling Finishes					
186 LOUNGE	1.00	NOTE	0.00	\$0	
187 GWB Ceiling (Taped and Finished)	8,700.00	SF	10.00	\$87,000	
188 GWB Soffits for Coffered Ceilings (Taped and Finished)	1,275.00	SF	10.00	\$12,750	
189 PT03 - Paint GWB Ceiling and Soffits	10,000.00	SF	5.00	\$50,000	
190 RESTROOMS	1.00	NOTE	0.00	\$0	
191 GWB Ceiling (Taped and Finished)	1,040.00	SF	10.00	\$10,400	
192 PT03 - Paint GWB Ceiling and Soffits	1,040.00	SF	5.00	\$5,200	
193 KITCHEN	1.00	NOTE	0.00	\$0	
194 ACT 02 - Acoustical Ceiling Tile	1,330.00	SF	7.00	\$9,310	
195 CORRIDOR	1.00	NOTE	0.00	\$0	
196 ACT 02 - Acoustical Ceiling Tile	100.00	SF	7.00	\$700	
197 SECOND LEVEL	1.00	NOTE	0.00	\$0	
198 ACT 02 - Acoustical Ceiling Tile	2,000.00	SF	7.00	\$14,000	
199 GWB Ceiling (Taped and Finished)	1,000.00	SF	10.00	\$10,000	
200 PT03 - Paint GWB Ceiling and Soffits	1,000.00	SF	5.00	\$5,000	
	11,144	SF	\$14	\$151,681	\$151,681
9. Finishes					
Floor Finishes					
201 RESTROOMS	1.00	NOTE	0.00	\$0	

British Airways D21 Galleries Lounge
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ESTIMATE DETAIL - UNIT COST REPORT

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	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
9. Finishes					
Floor Finishes					
202 TL 01 - Porcelain Tile Flooring	1,100.00	SF	\$14	\$151,681	\$151,681
203 BA 02 - 4" Stainless Steel Mounted Base	30.00	LF	11.00	\$12,100	
204 TL 01 - Porcelain Recessed Tile Base	370.00	LF	25.00	\$750	
205 LOUNGE	1.00	NOTE	8.00	\$2,960	
206 TL 01 - Porcelain Tile Flooring Entrance, Reception, Food and Beverage	3,730.00	SF	0.00	\$0	
207 TL 02 - Porcelain Tile Flooring Reception	85.00	SF	11.00	\$41,030	
208 TL 01A - Porcelain Tile Flooring Stairs	140.00	SF	16.00	\$1,360	
209 Terrazzo Floor To Match Concourse Flooring	250.00	SF	14.00	\$1,960	
210 BA 01 - Stainless Steel Flush Base	15.00	LF	50.00	\$12,500	
211 BA 01 - Stainless Steel Flush Base at Concourse Level Lobby	20.00	LF	25.00	\$375	
212 BA 02 - 4" Stainless Steel Mounted Base	492.00	LF	25.00	\$500	
213 BA 03 - Stainless Steel Recessed Base	271.00	LF	25.00	\$12,300	
214 WD 01 - Engineered Timber Flooring	2,330.00	SF	19.00	\$6,775	
215 Sealed Concrete	190.00	SF	3.00	\$44,270	
216 CP 02 - Carpet Tile Flooring	196.00	SY	21.00	\$570	
217 KITCHEN & CORRIDOR	1.00	NOTE	0.00	\$4,116	
218 Epoxy Flooring @ Kitchen	1,190.00	SF	5.00	\$0	
219 VY 01 - Vinyl	340.00	SF	4.50	\$5,950	
220 ELEVATOR CAB	1.00	NOTE	0.00	\$1,530	
221 TL 01 - Porcelain Tile Flooring	50.00	SF	11.00	\$0	
222 TL 01 - Porcelain Recessed Tile Base	30.00	LF	8.00	\$550	
223 OFFICE	1.00	NOTE	0.00	\$240	
224 VY 01 - Vinyl	410.00	SF	4.50	\$0	
	18,475	SF	\$18	\$333,620	\$333,620
9. Finishes					
Wall Finishes					
225 RESTROOMS	1.00	NOTE	0.00	\$0	
226 PT 01 - Typical Paint	535.00	SF	3.00	\$1,605	

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	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
9. Finishes					
Wall Finishes					
227 PT 04 - Feature Paint	1,000.00	SF	5.00	\$5,000	
228 WT 01 Typical Restroom Main Wall Tile	2,215.00	SF	35.00	\$77,525	
229 WT 02 Typical Restroom Feature Wall Tile	220.00	SF	40.00	\$8,800	
230 PL 01 - Laminated Finish	90.00	SF	25.00	\$2,250	
231 PL 02 - Laminated Finish	130.00	SF	25.00	\$3,250	
232 PL 03 - Laminated Finish	75.00	SF	25.00	\$1,875	
233 LOUNGE	1.00	NOTE	0.00	\$0	
234 PT 01 - Typical Paint	2,800.00	SF	3.00	\$8,400	
235 PT 04 - Feature Paint	570.00	SF	5.00	\$2,850	
236 TL 03 - Branded Backdrop Wall - Hexagonal Ceramic Tiles	275.00	SF	186.00	\$51,150	
237 1/8" Thick Brushed Stainless Steel Cladding Back Bar	20.00	SF	40.00	\$800	
238 GL 03 - Back Painted Glass Cladding	400.00	SF	35.00	\$14,000	
239 GL 01 - Back Painted Glass Cladding at Concourse Level Lobby	375.00	SF	35.00	\$13,125	
240 GL 02 - Back Painted Glass Cladding	2,000.00	SF	35.00	\$70,000	
241 SF 01 - Film Applied to Existing Glass Partition	2,280.00	SF	11.00	\$25,080	
242 KITCHEN	1.00	NOTE	0.00	\$0	
243 Allowance to Paint Walls @ Kitchen	1,020.00	SF	3.00	\$3,060	
244 ELEVATOR CAB	1.00	NOTE	0.00	\$0	
245 Elevator Cab Mirror Cladding	70.00	SF	25.00	\$1,750	
246 GL 02 - Back Painted Glass Cladding	60.00	SF	35.00	\$2,100	
247 GL 07 - Safety Laminated Glass	40.00	SF	35.00	\$1,400	
248 WD 02 - Veneer @ Lounge (1/28" Veneer on Fire Rated MDF)	720.00	SF	55.00	\$39,600	
10. Specialties					
Lounge Signage					
249 Type A - British Airways Lounge	1.00	EA	15,901.94	\$15,902	
250 Type B - Speedmarque	1.00	EA	5,787.23	\$5,787	
251 Type E - Signage E	1.00	EA	745.43	\$745	
	28	EA	\$2,243	\$62,796	\$62,796

British Airways - MIA D21 Galleries Lounge-Pkg B 100% Design - Construction Cost

	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
10. Specialties					
Lounge Signage	28	EA	\$2,243	\$62,796	\$62,796
252 British Airways Lounge Signage at Concourse Level	1.00	EA	11,500.00	\$11,500	
253 Banner at Concourse Level	1.00	EA	5,750.00	\$5,750	
254 Signage Contingency on Quote received -15%	1.00	LS	12,765.00	\$12,765	
255 Type C - Ceiling Suspended Signs	2.00	EA	449.83	\$900	
256 Type D - Signage D1	1.00	EA	449.83	\$450	
257 Type D - Signage D2	1.00	EA	449.83	\$450	
258 Type D - Signage D3	1.00	EA	449.83	\$450	
259 Type D - Signage D4	2.00	EA	449.83	\$900	
260 Type D - Signage D5	2.00	EA	449.83	\$900	
261 Type D - Signage D6	1.00	EA	449.83	\$450	
262 Type D - Signage D7	1.00	EA	449.83	\$450	
263 Type E - Wall Mounted Signs	1.00	EA	449.83	\$450	
264 Type F - Concorde Dining Signage	1.00	EA	449.83	\$450	
265 Type G - Signage G1	1.00	EA	449.83	\$450	
266 Type G - Signage G2	2.00	EA	449.83	\$900	
267 Type I - Electrical Room Sign	1.00	EA	449.83	\$450	
268 Type J1 - Kitchen Signs	3.00	EA	449.83	\$1,350	
269 Type K1 - Staff Room Signs	1.00	EA	449.83	\$450	
270 Type L1 - Janitor Room Signs	2.00	EA	449.83	\$900	
10. Specialties					
Lockers	1 ALLOW		\$5,000	\$5,000	\$5,000
271 Allowance for Lockers @ Staff Locker Room	1.00	ALLOW	5,000.00	\$5,000	\$5,000

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ESTIMATE DETAIL - UNIT COST REPORT

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	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
10. Specialties					
Restroom Specialties	1	LS	\$25,070	\$25,070	\$25,070
272 Individual Hardwood Framed Mirrors with LED Lighting	107.00	SF	69.00	\$7,383	
273 Large Bag Synergy Hamper Storage Closet	1.00	EA	230.00	\$230	
274 PA 01 Baby Changing Station	2.00	EA	345.00	\$690	
275 PA 02 Soap Dispenser	11.00	EA	115.00	\$1,265	
276 PA 03 Paper Towel Dispenser	10.00	EA	92.00	\$920	
277 PA 04 Double Toilet Tissue Holder	8.00	EA	172.50	\$1,380	
278 PA 05 Urinal Partition	2.00	EA	460.00	\$920	
279 PA 07 Wall Mounted Hair Dryer	3.00	EA	92.00	\$276	
280 PA 08 Sanitary Bin	13.00	EA	80.50	\$1,047	
281 PA 09 Door Hook Toilet Stalls	12.00	EA	34.50	\$414	
282 PA 10 Towel Bar	2.00	EA	172.50	\$345	
283 PA 11B ADA Grab Bar	4.00	EA	345.00	\$1,380	
284 PA 11C ADA Grab Bar	4.00	EA	402.50	\$1,610	
285 PA 11D ADA Grab Bar - ADA Shower	1.00	EA	172.50	\$173	
286 PA 12 ADA Folding Chair - ADA Shower	1.00	EA	345.00	\$345	
287 PA 13 Door Stop	6.00	EA	69.00	\$414	
288 PA 15 Janitor Sink	2.00	EA	747.50	\$1,495	
289 PA 16 Mop Rack	2.00	EA	92.00	\$184	
290 PA 18A Square Floor Drain	8.00	EA	230.00	\$1,840	
291 PA 20 Mirror Defogger	2.00	EA	517.50	\$1,035	
292 PA 17 Shoe Shine Machine	1.00	EA	287.50	\$288	
293 PA 21 Sanitary Product Dispenser	1.00	EA	575.00	\$575	
294 PA 22 Sanitary Disposal Bag Dispenser	3.00	EA	287.50	\$863	
	11,144	GSF	\$45	\$496,001	\$496,001
11. Equipment - Kitchen & Bar Equipment					
Kitchen and Bar Food Service Equipment					
295 Ambient Carbonator	1.00	EA	5,750.00	\$5,750	
296 Bar/Undercounter Refrigerator	8.00	EA	4,600.00	\$36,800	

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	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
11. Equipment - Kitchen & Bar Equipment					
Kitchen and Bar Food Service Equipment	11,144	GSF	\$45	\$496,001	\$496,001
297 Hand Sink Assembly	1.00	EA	6,618.25	\$6,618	
298 Glass Washer	1.00	EA	16,675.00	\$16,675	
299 Espresso Maker	1.00	EA	32,200.00	\$32,200	
300 Coffee Grinder	2.00	EA	5,750.00	\$11,500	
301 Dry Storage Cabinet	2.00	EA	1,725.00	\$3,450	
302 Espresso Maker w/ Grinder	1.00	EA	34,500.00	\$34,500	
303 Milk Refrigerator/Dispenser	1.00	EA	11,500.00	\$11,500	
304 Hand Sink	3.00	EA	2,875.00	\$8,625	
305 POT Wash - 3 Compartments	1.00	EA	6,900.00	\$6,900	
306 Utensil Wash Sink	1.00	EA	5,750.00	\$5,750	
307 Dish machine w/ Booster Heater	1.00	EA	11,500.00	\$11,500	
308 Condensate Hood	1.00	EA	17,250.00	\$17,250	
309 Disposer w/ Ctrl Panel	2.00	EA	4,025.00	\$8,050	
310 Slicer	1.00	EA	6,670.00	\$6,670	
311 Undercounter Refrigerator	4.00	EA	5,750.00	\$23,000	
312 Check Minder	1.00	EA	1,150.00	\$1,150	
313 Refrigerator 34deg / Freezer - 10deg	1.00	EA	17,250.00	\$17,250	
314 6-inch spreader cabinet	1.00	EA	5,750.00	\$5,750	
315 Kettle Fill Faucet	1.00	EA	575.00	\$575	
316 Electric 6-burner range	1.00	EA	11,500.00	\$11,500	
317 Split Vat Fryer w/ Filter	1.00	EA	11,500.00	\$11,500	
318 Double Stacked combi oven w/ filter	1.00	EA	5,750.00	\$5,750	
319 Exhaust ventilator	1.00	EA	11,500.00	\$11,500	
320 Fire suppression system	1.00	EA	2,875.00	\$2,875	
321 Turbo Chef	1.00	EA	5,750.00	\$5,750	
322 Food Chopper	1.00	EA	2,875.00	\$2,875	
323 5 qt Mixer	1.00	EA	17,250.00	\$17,250	
324 Cook & Hold Cabinet	1.00	EA	5,750.00	\$5,750	
325 Blast chiller	1.00	EA	28,750.00	\$28,750	
326 Cooler & Freezer assembly	1.00	EA	862.50	\$862.50	
327 18-inch cooler shelving 18x48	7.00	EA			

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QTY UOM UNIT COST SUB TOTAL LEVEL TOTAL

11. Equipment - Kitchen & Bar Equipment
Kitchen and Bar Food Service Equipment

	QTY	UOM	UNIT COST	SUB TOTAL	LEVEL TOTAL
328 Ice Maker w/ Storage Bin	11,144	GSF	\$45	\$496,001	\$496,001
329 Water filter	1.00	EA	6,900.00	\$6,900	\$6,900
330 Espresso Maker	1.00	EA	575.00	\$575	\$575
331 Refrigerator	1.00	EA	34,500.00	\$34,500	\$34,500
332 Water bottler	1.00	EA	5,750.00	\$5,750	\$5,750
333 CO2Tanks	1.00	EA	2,875.00	\$2,875	\$2,875
334 42-inch High Bar Top & Die Wall	1.00	EA	5,750.00	\$5,750	\$5,750
335 Glass Rack	1.00	EA	5,750.00	\$5,750	\$5,750
336 Iced Wine Display	1.00	EA	5,750.00	\$5,750	\$5,750
337 36-inch High Island Counter	1.00	EA	5,750.00	\$5,750	\$5,750
338 36-inch High Back Bar Counter	1.00	EA	5,750.00	\$5,750	\$5,750
339 Double Overshelf Assembly	1.00	EA	1,150.00	\$1,150	\$1,150
340 18-inch Storage Shelving	20.00	EA	862.50	\$17,250	\$17,250

12. Furnishings

Furniture (Sofa, Chairs, Cushions, Stools, Tables, Lamps, spare cushions)

	QTY	UOM	UNIT COST	SUB TOTAL	LEVEL TOTAL
341 CH01 - Sofa	7,680	SF	\$59	\$450,687	\$450,687
342 CH02 - Armchair	3.00	EA	4,937.10	\$14,811	\$14,811
343 CH03 - Armchair	14.00	EA	1,811.25	\$25,358	\$25,358
344 CH04 - Armchair	8.00	EA	2,845.50	\$22,764	\$22,764
345 CH05 - Armchair	32.00	EA	2,263.80	\$72,442	\$72,442
346 CH06 - Dining Chair	4.00	EA	2,188.20	\$8,753	\$8,753
347 CH07 - Dining Chair	22.00	EA	898.80	\$19,774	\$19,774
348 CH08 - Barstool	18.00	EA	2,095.80	\$37,724	\$37,724
349 CH09 - Barstool	16.00	EA	2,030.70	\$32,491	\$32,491
350 CH10 - Task Chair	6.00	EA	1,995.00	\$11,970	\$11,970
351 CH11 - Stool	6.00	EA	268.80	\$1,613	\$1,613
	2.00	EA	1,649.55	\$3,299	\$3,299

British Airways - MIA D21 Galleries Lounge-Pkg B 100% Design - Construction Cost

	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
12. Furnishings					
Furniture (Sofa, Chairs, Cushions, Stools, Tables, Lamps, spare cushions)	7,680	SF	\$59	\$450,687	\$450,687
352 CH12 - Armchair	4.00	EA	3,022.95	\$12,092	
353 SS04A -Table	2.00		870.45	\$1,741	
354 SS04B -Table	4.00		870.45	\$3,482	
355 TB01 - Side Table	4.00		870.45	\$3,482	
356 TB02 - Coffee Table	3.00		1,132.95	\$3,399	
357 TB03 - Dining Table	6.00		913.50	\$5,481	
358 TB04 - Dining Table	3.00		819.00	\$2,457	
359 TB05 - Dining Table	13.00		889.35	\$11,562	
360 TB06 - High Poseur Table	2.00		826.35	\$1,653	
361 TB07 - Dining Table	9.00		741.30	\$6,672	
362 WD02 -Table	34.00		870.45	\$29,595	
363 WD02A - Table	1.00		870.45	\$870	
364 LT01A - Table Lamp	20.00	EA	623.70	\$12,474	
365 LT01B - Table Lamp	14.00	EA	670.95	\$9,393	
366 LT01C - Table Lamp	4.00	EA	623.70	\$2,495	
367 LT02 - Table Lamp	5.00	EA	1,486.80	\$7,434	
368 LT03 - Floor Lamp	7.00	EA	1,486.80	\$10,408	
369 Freight for All Furniture	1.00	LS	75,000.00	\$75,000	
12. Furnishings					
ALLOWANCE for Artwork	7,680	SF	\$10	\$76,800	\$76,800
370 Allowance for Artwork in Lounge Area	7,680.00	GSF	10.00	\$76,800	\$76,800

British Airways - MIA D21 Galleries Lounge-Pkg B 100% Design - Construction Cost

	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
15. Mechanical					
Fire Protection					
	11,144	GSF	\$23	\$251,294	\$251,294
371 Demo existing sprinkler heads, standard spray, pendent or upright, brass, 135 to 286 degrees F, 1/2" NPT, 3/8" orifice, excludes supply piping	120.00	Ea.	56.57	\$6,788	
372 Pipe, fittings & valves, steel, black, grooved joint, 1" diameter, schedule 40, incl coupling & clevis type hanger 10' O.C.	480.00	L.F.	13.92	\$6,681	
373 Pipe, fittings & valves, steel, black, grooved joint, 3" diameter, schedule 40, incl coupling & clevis type hanger 10' O.C.	90.00	L.F.	31.57	\$2,841	
374 Sprinkler Tamper Switch	3.00	Ea.	2,536.09	\$7,608	
375 Sprinkler system components, sprinkler heads, standard spray, pendent or upright, brass, 135 to 286 degrees F, 1/2" NPT, 3/8" orifice, excludes supply piping	248.00	Ea.	75.23	\$18,657	
376 Valves, bronze, angle, rising stem, threaded, 150 lb., 2"	6.00	Ea.	998.22	\$5,989	
377 Valves, bronze, gate, non-rising stem, threaded, class 150, 1"	4.00	Ea.	170.92	\$684	
378 Elbow, 90 Deg., steel, malleable iron, black, straight, threaded, 150 lb., 1"	900.00	Ea.	75.78	\$68,203	
379 Tee, steel, malleable iron, mechanical joint ends for plain end pipe, black, reducing on the outlet, 1-1/2" x 1"	43.11	Ea.	114.32	\$4,928	
380 Tee, steel, malleable iron, mechanical joint ends for plain end pipe, black, reducing on the run and outlet, 1-1/4" x 1" x 1"	21.56	Ea.	109.16	\$2,354	
381 Tee, steel, malleable iron, mechanical joint ends for plain end pipe, black, reducing on the run and outlet, 1-1/2" x 1-1/4" x 1"	21.56	Ea.	116.49	\$2,511	
382 Tee, steel, malleable iron, mechanical joint ends for plain end pipe, black, reducing on the run and outlet, 2" x 1-1/2" x 1"	10.78	Ea.	133.53	\$1,439	
383 Pipe, fittings & valves, steel, black, grooved joint, 1" diameter, schedule 40, incl coupling & clevis type hanger 10' O.C.	2,200.00	L.F.	19.48	\$42,849	
384 Pipe, fittings & valves, steel, black, grooved joint, 1-1/4" diameter, schedule 40, incl coupling & clevis type hanger 10' O.C.	200.00	L.F.	22.00	\$4,400	
385 Pipe, fittings & valves, steel, black, grooved joint, 1-1/2" diameter, schedule 40, incl coupling & clevis type hanger 10' O.C.	300.00	L.F.	24.83	\$7,450	
386 Pipe, fittings & valves, steel, black, grooved joint, 2" diameter, schedule 40, incl coupling & clevis type hanger 10' O.C.	400.00	L.F.	30.76	\$12,304	

British Airways - MIA D21 Galleries Lounge-Pkg B 100% Design - Construction Cost

	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
15. Mechanical					
Fire Protection					
387 Pipe, fittings & valves, steel, black, grooved joint, 2-1/2" diameter, schedule 40, incl coupling & clevis type hanger 10' O.C.	11,144	GSF	\$23	\$251,294	\$251,294
388 Pipe, fittings & valves, steel, black, grooved joint, 3" diameter, schedule 40, incl coupling & clevis type hanger 10' O.C.	10.00	L.F.	41.12	\$411	
389 Pipe, fittings & valves, steel, black, grooved joint, 6" diameter, schedule 40, incl coupling & clevis type hanger 10' O.C.	90.00	L.F.	47.74	\$4,297	
390 Pipe, fittings & valves, elbow, 45 Deg. or 90 Deg., steel, painted, grooved joint, 6" diameter, add 1 coupling (material only) per joint for installed price, incl joint coupling labor, excl joint coupling material	120.00	L.F.	117.91	\$14,150	
391 Pipe, fittings & valves, tee, steel, painted, grooved joint, 2-1/2" diameter, add 1 coupling (material only) per joint for installed price, incl joint coupling labor, excl joint coupling material	0.98	Ea.	308.43	\$302	
392 Pipe, fittings & valves, tee, steel, painted, grooved joint, 3" diameter, add 1 coupling (material only) per joint for installed price, incl joint coupling labor, excl joint coupling material	5.88	Ea.	119.71	\$704	
393 Pipe, fittings & valves, tee, steel, painted, grooved joint, 6" diameter, add 1 coupling (material only) per joint for installed price, incl joint coupling labor, excl joint coupling material	9.80	Ea.	154.87	\$1,518	
394 Pipe, fittings & valves, tee, steel, painted, grooved joint, 6" diameter, add 1 coupling (material only) per joint for installed price, incl joint coupling labor, excl joint coupling material	1.96	Ea.	485.20	\$951	
395 Pipe, fittings & valves, coupling, steel, painted, standard, flexible, grooved joint, 2" diameter	11.76	Ea.	51.03	\$600	
396 Pipe, fittings & valves, coupling, steel, painted, standard, flexible, grooved joint, 3" diameter	7.84	Ea.	66.89	\$524	
397 Pipe, fittings & valves, coupling, steel, painted, standard, flexible, grooved joint, 6" diameter	3.92	Ea.	159.99	\$627	
398 Valves, iron body, gate, OS&Y, flanged, 125 lb., 6" Raise 8' Fire Main	0.98	Ea.	2,319.96	\$2,274	
399 Allowance for Fire Watch during Shutdowns - Assume 5 Shutdowns	100.00	LF	50.00	\$5,000	
400 New Dry Fire Protection at Kitchen Area	1.00	ALLOW	15,000.00	\$15,000	
	450.00	GSF	15.00	\$6,750	

British Airways - MIA D21 Galleries Lounge-Pkg B 100% Design - Construction Cost

	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
15. Mechanical					
Fire Protection					
401 New Fire Extinguisher and FEC	5.00	EA	500.00	\$2,500	\$2,51,294
	11,144	GSF	\$23	\$251,294	\$251,294
15. Mechanical					
Plumbing					
402 Plumbing Fixtures	1.00	NOTE	0.00	\$0	
403 Water Closet	8.00	EA	1,759.26	\$14,074	
404 Water closet, bowl only, wall hung, rough-in, supply, waste and vent	8.00	Ea.	1,494.94	\$11,960	
405 Lavatory	11.00	EA	1,504.31	\$16,547	
406 Sink, laboratory, rough-in, supply, waste and vent	11.00	Ea.	696.47	\$7,661	
407 Shower - ADA	2.00	EA	3,007.09	\$6,014	
408 Urinal	3.00	EA	1,446.54	\$4,340	
409 Urinal, wall hung, rough-in, supply, waste and vent	3.00	Ea.	1,009.75	\$3,029	
410 Sink, service, mop, molded stone, 24" x 36", includes faucet and drain	1.00	EA	1,524.67	\$1,525	
411 Sink, service, floor, rough-in, supply, waste and vent	1.00	Ea.	1,392.20	\$1,392	
412 Domestic Water Distribution	1.00	NOTE	0.00	\$0	
413 Domestic Water Distribution @ Kitchen Area	1.00	NOTE	0.00	\$0	
414 Pipe cu solder jts, type L tubing, fgs & hgrs 10' O.C., 1/2" dia.	70.00	LF	24.36	\$1,705	
415 Pipe cu solder jts, type L tubing, fgs & hgrs 10' o.c., 3/4" dia	200.00	LF	28.64	\$5,727	
416 Pipe cu solder joints, type L tubing, fgs & hgrs 10' o.c., 1" dia	10.00	LF	31.60	\$316	
417 Pipe cu solder jts, type L tubing, fgs & hgrs 10' o.c., 1-1/2" dia	40.00	LF	44.42	\$1,777	
418 Pipe cu solder joints, type L tubing, fgs & hgrs 10' o.c., 2" dia	30.00	LF	51.46	\$1,544	
419 Pipe cu solder jts, type L tubing, fgs & hgrs 10' o.c., 2-1/2" dia	40.00	LF	60.25	\$2,410	
420 Insulation, pipe covering, fbgl, all svce jkt, 1.5" wall, 1/2" IPS	70.00	LF	10.73	\$751	
421 Insulation, pipe covering, fbgl, all svce jkt, 1.5" wall, 3/4" IPS	200.00	LF	11.19	\$2,238	
422 Insulation, pipe covering, fbgl, all svce jkt, 1.5" wall, 1" IPS	10.00	LF	11.67	\$117	
423 Insulation, pipe covering, fbgl, all svce jkt, 1.5" wall, 1.5" IPS	40.00	LF	12.42	\$497	
424 Insulation, pipe covering, fbgl, all svce jkt, 1.5" wall, 2" IPS	30.00	LF	13.13	\$394	
425 Insulatn, pipe covering, fbgl, all svce jkt, 1.5" wall, 2.5" IPS	40.00	LF	14.00	\$560	
	11,144	GSF	\$29	\$320,995	\$320,995

British Airways - MIA D21 Galleries Lounge-Pkg B 100% Design - Construction Cost

	QTY	UOM	UNIT COST	SUB TOTAL	LEVEL TOTAL
15. Mechanical					
Plumbing					
	11,144	GSF	\$29	\$320,995	\$320,995
426 Misc Valves & Specialties	1.00	LS	4,392.83	\$4,393	
427 Domestic Water Distribution @ Restroom Area	1.00	NOTE	0.00	\$0	
428 Pipe cu solder jts, type L tubing, fgs & hgrs 10' O.C., 1/2" dia.	240.00	LF	24.36	\$5,847	
429 Pipe cu solder jts, type L tubing, fgs & hgrs 10' o.c., 3/4" dia	260.00	LF	28.64	\$7,446	
430 Pipe cu solder joints, type L tubing, fgs & hgrs 10' o.c., 1" dia	180.00	LF	31.60	\$5,688	
431 Pipe cu solder jts, type L tubing, fgs & hgrs 10' o.c., 1-1/4" dia	40.00	LF	39.77	\$1,591	
432 Pipe cu solder jts, type L tubing, fgs & hgrs 10' o.c., 1-1/2" dia	50.00	LF	44.42	\$2,221	
433 Pipe cu solder joints, type L tubing, fgs & hgrs 10' o.c., 2" dia	50.00	LF	51.46	\$2,573	
434 Insulation, pipe covering, fbgl, all svce jkt, 1.5" wall, 1/2" IPS	240.00	LF	10.73	\$2,575	
435 Insulation, pipe covering, fbgl, all svce jkt, 1.5" wall, 3/4" IPS	260.00	LF	11.19	\$2,909	
436 Insulation, pipe covering, fbgl, all svce jkt, 1.5" wall, 1" IPS	180.00	LF	11.67	\$2,101	
437 Insulation, pipe covering, fbgl, all svce jkt, 1.5" wall, 1.25" IPS	40.00	LF	12.32	\$493	
438 Insulation, pipe covering, fbgl, all svce jkt, 1.5" wall, 1.5" IPS	50.00	LF	12.42	\$621	
439 Insulation, pipe covering, fbgl, all svce jkt, 1.5" wall, 2" IPS	50.00	LF	13.13	\$656	
440 Misc Valves & Specialties	1.00	LS	6,751.69	\$6,752	
441 Domestic Water Distribution @ Lounge Area	1.00	NOTE	0.00	\$0	
442 Pipe cu solder jts, type L tubing, fgs & hgrs 10' O.C., 1/2" dia.	60.00	LF	24.36	\$1,462	
443 Pipe cu solder jts, type L tubing, fgs & hgrs 10' o.c., 3/4" dia	50.00	LF	28.64	\$1,432	
444 Pipe cu solder jts, type L tubing, fgs & hgrs 10' o.c., 1-1/2" dia	50.00	LF	44.42	\$2,221	
445 Pipe cu solder joints, type L tubing, fgs & hgrs 10' o.c., 2" dia	60.00	LF	51.46	\$3,088	
446 Insulation, pipe covering, fbgl, all svce jkt, 1.5" wall, 1/2" IPS	60.00	LF	10.73	\$644	
447 Insulation, pipe covering, fbgl, all svce jkt, 1.5" wall, 3/4" IPS	50.00	LF	11.19	\$559	
448 Insulation, pipe covering, fbgl, all svce jkt, 1.5" wall, 1.5" IPS	50.00	LF	12.42	\$621	
449 Insulation, pipe covering, fbgl, all svce jkt, 1.5" wall, 2" IPS	60.00	LF	13.13	\$788	
450 Misc Valves & Specialties	1.00	LS	3,941.53	\$3,942	
451 Connection to existing	2.00	EA	404.85	\$810	
452 Sanitary Waste & Vent Piping	1.00	NOTE	0.00	\$0	
453 Sanitary Sewer & Vent Pipe @ Kitchen Area	1.00	NOTE	0.00	\$0	
454 Pipe, cast iron soil, no hub, 1-1/2" diameter, includes couplings 10' O.C., hanger assemblies 5' O.C.	20.00	LF	46.79	\$936	

British Airways - MIA D21 Galleries Lounge-Pkg B 100% Design - Construction Cost

	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
15. Mechanical					
Plumbing					
455 Pipe, cast iron soil, no hub, 3" diameter, includes couplings 10' O.C., hanger assemblies 5' O.C.	20.00	LF	54.26	\$1,085	
456 Pipe Fittings	1.00	LS	405.91	\$406	
457 Sanitary Sewer & Vent Pipe @ Restroom Area	1.00	NOTE	0.00	\$0	
458 Pipe, cast iron soil, no hub, 1-1/2" diameter, includes couplings 10' O.C., hanger assemblies 5' O.C.	50.00	LF	46.79	\$2,340	
459 Pipe, cast iron soil, no hub, 2" diameter, includes couplings 10' O.C., hanger assemblies 5' O.C.	30.00	LF	49.52	\$1,486	
460 Pipe, cast iron soil, no hub, 3" diameter, includes couplings 10' O.C., hanger assemblies 5' O.C.	220.00	LF	54.26	\$11,938	
461 Pipe, cast iron soil, no hub, 4" diameter, includes couplings 10' O.C., hanger assemblies 5' O.C.	200.00	LF	61.79	\$12,359	
462 Pipe Fittings	1.00	LS	4,232.46	\$4,232	
463 Sanitary Sewer & Vent Pipe @ Lounge Area	1.00	NOTE	0.00	\$0	
464 Pipe, cast iron soil, no hub, 3" diameter, includes couplings 10' O.C., hanger assemblies 5' O.C.	250.00	LF	54.26	\$13,566	
465 Pipe, cast iron soil, no hub, 4" diameter, includes couplings 10' O.C., hanger assemblies 5' O.C.	30.00	LF	61.79	\$1,854	
466 Pipe Fittings	1.00	LS	2,202.89	\$2,203	
467 Floor Drains	5.00	EA	746.91	\$3,735	
468 Cleanouts	23.00	EA	543.26	\$12,495	
469 Connection to existing	1.00	EA	714.87	\$715	
470 Drain Pipe, plastic, PVC, 1" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10'	90.00	LF	38.13	\$3,431	
471 Drain Pipe, plastic, PVC, 3/4" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10'	80.00	LF	34.21	\$2,737	
472 Hole drilling, concrete slab, 8" thick, 4" pipe size, to 10' high	11.00	EA	711.68	\$7,829	
473 Hole drilling, concrete slab, 8" thick, 3" pipe size, to 10' high	1.00	EA	533.82	\$534	
474 Hole drilling, concrete slab, 8" thick, 2-1/2" pipe size, to 10' high	18.00	EA	533.83	\$9,609	
475 Grease Waste System	1.00	NOTE	0.00	\$0	
476 Grease Waste System at @ Kitchen Area	1.00	NOTE	0.00	\$0	
	11,144	GSF	\$29	\$320,995	\$320,995

British Airways - MIA D21 Galleries Lounge-Pkg B 100% Design - Construction Cost

	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
15. Mechanical					
Plumbing					
477 Floor Drains	11,144	GSF	\$29	\$320,995	\$320,995
478 Cleanouts	7.00	EA	746.91	\$5,228	
479 Pipe, cast iron soil, no hub, 3" diameter, includes couplings 10' O.C., hanger assemblies 5' O.C.	12.00	EA	543.26	\$6,519	
480 Pipe, cast iron soil, no hub, 4" diameter, includes couplings 10' O.C., hanger assemblies 5' O.C.	150.00	LF	54.26	\$8,140	
481 Pipe Fittings	60.00	LF	61.79	\$3,708	
482 Grease Waste System at @ Lounge Area	1.00	LS	2,087.35	\$2,087	
483 Pipe, cast iron soil, no hub, 1-1/2" diameter, includes couplings 10' O.C., hanger assemblies 5' O.C.	1.00	NOTE	0.00	\$0	
484 Pipe, cast iron soil, no hub, 3" diameter, includes couplings 10' O.C., hanger assemblies 5' O.C.	20.00	LF	46.79	\$936	
485 Pipe, cast iron soil, no hub, 4" diameter, includes couplings 10' O.C., hanger assemblies 5' O.C.	30.00	LF	54.26	\$1,628	
486 Pipe Fittings	300.00	LF	61.79	\$18,538	
487 Hole drilling, concrete slab, 8" thick, 3" pipe size, to 10' high	1.00	LS	2,435.49	\$2,435	
488 Plumbing Equipment	12.00	EA	533.83	\$6,406	
489 Water filter	1.00	NOTE	0.00	\$0	
490 Water heater, 80 gallon 24kw	2.00	EA	4,522.51	\$9,045	
491 Bell & Gossett Recirculation Pump 1/2hp	2.00	EA	6,525.12	\$13,050	
492 Water hammer arrester/shock absorber, bellows type, to 60 fixture units, 1" FNPT	1.00	EA	2,791.11	\$2,791	
	1.00	EA	989.96	\$990	
15. Mechanical					
H.V.A.C.					
493 HVAC Demolition	11,144	GSF	\$38	\$423,280	\$423,280
494 Pre Test Existing HVAC Equipment per note 8 on Page DM-001	1.00	NOTE	0.00	\$0	
	1.00	LS	10,000.00	\$10,000	

British Airways D21 Galleries Lounge
 Package B - 100% Submittal
 Estimate of Probable Construction Cost
 Bermello Ajamil & Partners, Inc

ESTIMATE DETAIL - UNIT COST REPORT

British Airways - MIA D21 Galleries Lounge-Pkg B 100% Design - Construction Cost

	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
15. Mechanical					
H.V.A.C.	11,144	GSF	\$38	\$423,280	\$423,280
495 Ductwork, metal steel and sst, fabricated, selective demolition	3,560.00	LBS	4.62	\$16,452	
496 Diffusers, registers or grills, 21" thru 36" max dimension, selective demolition	31.00	EA	28.50	\$883	
497 Demo Fire Damper	1.00	EA	256.74	\$257	
498 Pipe, metal pipe, 2" to 3-1/2" diam., selective demolition	95.00	LF	5.81	\$552	
499 Int. demolition Mech - Remove Existing VAV Box	5.00	EA	256.74	\$1,284	
500 Int. demolition Mech - Remove VAV Thermostat and Pnumatic Control - ea VAV	3.00	EA	96.28	\$289	
501 Remove Temporary Cap at Concourse	1.00	LS	500.00	\$500	
502 Metal Duct and Insulation	1.00	NOTE	0.00	\$0	
503 Galvanized Steel Rectangular Duct @Restroom Area	1,050.00	LBS	11.09	\$11,646	
504 Duct Insulation @Restroom Area	735.00	SF	3.18	\$2,335	
505 Ductwork, flexible @Restroom Area	10.00	LF	13.76	\$138	
506 Supply Air Ductwork, Connect to Existing	4.00	EA	250.00	\$1,000	
507 Galvanized Steel Rectangular Duct @Lounge Area	6,100.00	LBS	11.09	\$67,656	
508 Duct Insulation @Lounge Area	4,300.00	SF	3.18	\$13,662	
509 Ductwork, flexible @Lounge Area	250.00	LS	13.76	\$3,440	
510 Supply Air Ductwork, Connect to Existing	4.00	EA	250.00	\$1,000	
511 Galvanized Steel Rectangular Duct @Kitchen Area	750.00	LBS	11.09	\$8,318	
512 Galvanized Stainless Steel Rectangular Duct @Kitchen Area	1,250.00	LBS	19.14	\$23,925	
513 Duct Insulation @Kitchen Area	875.00	SF	3.18	\$2,780	
514 Ductwork, flexible @Kitchen Area	250.00	LF	13.76	\$3,440	
515 Supply Air Ductwork, Connect to Existing	4.00	EA	250.00	\$1,000	
516 Galvanized Steel Rectangular Duct @ Concorde Bar	900.00	LBS	11.09	\$9,982	
517 Duct Insulation @ Concorde Bar	650.00	SF	3.18	\$2,065	
518 Ductwork, flexible @ Concorde Bar	20.00	LF	13.76	\$275	
519 Distribution Equipment	1.00	NOTE	0.00	\$0	
520 VAV Box (Relocated)	7.00	EA	462.13	\$3,235	
521 Duct accessories, fire/smoke combination damper @Restroom	26.00	SF	103.98	\$2,704	
522 Duct accessories, fire/smoke combination damper @Kitchen	1.00	SF	103.99	\$104	

British Airways - MIA D21 Galleries Lounge-Pkg B 100% Design - Construction Cost

	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
15. Mechanical					
H.V.A.C.					
	11,144	GSF	\$38	\$423,280	\$423,280
523 Duct accessories, fire/smoke combination damper @Lounge	10.00	SF	103.98	\$1,040	
524 Relocate existing Damper @Lounge	1.00	LS	500.00	\$500	
525 Exhaust Fan, Roof, Belt 1400cfm @Restroom	1.00	EA	1,613.94	\$1,614	
526 Exhaust Fan, Roof, Belt 1150cfm @Kitchen	1.00	EA	1,475.30	\$1,475	
527 Exhaust Fan, Roof, Belt 600cfm @Kitchen	1.00	EA	1,359.76	\$1,360	
528 Exhaust Fan, Roof, Belt 1630cfm @Kitchen	1.00	EA	1,821.92	\$1,822	
529 Diffuser, Registers, and Grilles	1.00	NOTE	0.00	\$0	
530 Diffuser, linear bar diffuser Type M @Lounge	289.00	L.F.	91.53	\$26,452	
531 Diffuser, linear bar diffuser Type L @Lounge	392.00	L.F.	101.35	\$39,730	
532 Diffuser, aluminum, ceiling, 10x10 @Lounge	2.00	Ea.	160.85	\$322	
533 Diffuser, aluminum, ceiling, perforated, 24" x 24" @Lounge	1.00	Ea.	279.73	\$280	
534 Grille, steel, air return, 24" x 24" @Restroom	1.00	Ea.	126.77	\$127	
535 Grille, steel, air return, 12" x 12" @Restroom	14.00	Ea.	77.34	\$1,083	
536 Diffuser, aluminum, ceiling, 10x10 @Restroom	2.00	Ea.	160.85	\$322	
537 Grille, steel, air return, 24" x 24" @Kitchen	4.00	Ea.	126.77	\$507	
538 Diffuser, aluminum, ceiling, perforated, 24" x 24" @Kitchen	7.00	Ea.	279.73	\$1,958	
539 Diffuser, linear bar diffuser Type L @ Concourse	5.00	L.F.	101.35	\$507	
540 Diffuser, linear bar diffuser Type L @ Concorde Bar	60.00	L.F.	101.35	\$6,081	
541 Diffuser, linear bar diffuser Type M @ Concorde Bar	30.00	L.F.	91.53	\$2,746	
542 Chilled Water Distribution System - Building	1.00	NOTE	0.00	\$0	
543 Pipe, steel, black, threaded, 2-1/2" diameter, schedule 40, Spec. A-53, includes coupling and clevis hanger assembly sized for covering, 10' OC	260.00	L.F.	49.24	\$12,803	
544 Insulation, pipe covering, fiberglass with all service jacket, 1-1/2" wall, 2-1/2" iron pipe size	260.00	L.F.	10.69	\$2,779	
545 Tie-into Existing	1.00	L.S.	4,669.48	\$4,669	
546 Pipe Fittings and Valves	1.00	LS	2,743.91	\$2,744	
547 HVAC Controls, Test & Balancing	1.00	NOTE	0.00	\$0	
548 Balancing, air conditioning equipment, supply, return, exhaust, registers and diffusers, high ceiling	109.00	Ea.	123.63	\$13,475	
549 Balancing, air, heating and ventilating equipment, roof exhaust fan,	4.00	Ea.	272.67	\$1,091	

British Airways - MIA D21 Galleries Lounge-Pkg B 100% Design - Construction Cost

QTY **UOM** **UNIT COST** **SUB TOTAL** **LEVEL TOTAL**

15. Mechanical
H.V.A.C.
 11,144 GSF \$38 \$423,280 \$423,280

550	Balancing, air, heating and ventilating unit	7.00	Ea.	612.36	\$4,287
551	Sensor, T'stat, Program & CPU - Stand Alone	1.00	L.S.	20,812.11	\$20,812
552	System Check-out & Programming	1.00	L.S.	2,452.91	\$2,453
553	EMT Conduit 3/4"	4.00	C.L.F.	924.22	\$3,697
554	Control Wiring	5.50	C.L.F.	158.17	\$870
555	Chilled Water Distribution System - Equipment Services	1.00	NOTE	0.00	\$0
556	Pipe, steel, black, threaded, 1-1/2" diameter, schedule 40, Spec. A-53, includes coupling and clevis hanger assembly sized for covering, 10' OC	1,320.00	L.F.	18.42	\$24,317
557	Insulation, pipe covering, fiberglass with all service jacket, 1-1/2" wall, 2-1/2" iron pipe size	1,320.00	L.F.	10.69	\$14,106
558	Tie-into Existing	1.00	L.S.	4,669.48	\$4,669
559	Condensing unit, air cooled, compressor, 50 ton, includes standard controls	1.00	Ea.	33,662.45	\$33,662

16. Electrical, Communications and Electronic Safety & Security

Electrical
 11,144 GSF \$72 \$804,046 \$804,046

560	Demo - Allowance for General Electrical Demolition	11,144.00	SF	1.96	\$21,898
561	Concrete core drilling, core, reinforced concrete slab, 3" diameter, up to 6" thick slab, includes bit, layout and set up - Electrical	39.00	EA	388.69	\$15,159
562	Panelboards "ITEN53", 3 phase 4 wire, main circuit breaker, 120/208 V, 400 amp, 84 circuits, incl. breakers	1.00	EA	10,312.75	\$10,313
563	Panelboards "ITEN53-1", 3 phase 4 wire, main lugs, 120/208 V, 400 amp, 20 circuits, NQOD, incl. breakers	1.00	EA	6,292.42	\$6,292
564	Transformer, dry-type, 3 phase 480 V primary 120/208 V secondary, 150 kVA	1.00	EA	7,255.56	\$7,256
565	Circuit breaker, 3 pole, 600 volt, 400 amp, enclosed (NEMA 1)	1.00	EA	4,075.57	\$4,076
566	Circuit breaker, 3 pole, 3 wire, to 600 volt, 600 amp	2.00	EA	5,543.08	\$11,086

British Airways - MIA D21 Galleries Lounge-Pkg B 100% Design - Construction Cost

	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
16. Electrical, Communications and Electronic Safety & Security					
Electrical					
	11,144	GSF	\$72	\$804,046	\$804,046
567 Rigid galvanized steel conduit, 3" diameter, to 15' H, incl 2 terminations, 2 elbows, 11 beam clamps, and 11 couplings per 100 LF	600.00	LF	49.67	\$29,804	
568 Wire, copper, stranded, 600 volt, 400 kcmil, type THWN-THHN, in raceway	27.00	CLF	1,367.55	\$36,924	
569 Wire, copper, stranded, 600 volt, #1, type THWN-THHN, in raceway	7.00	CLF	415.68	\$2,910	
570 Rigid galvanized steel conduit, 2-1/2" diameter, to 15' H, incl 2 terminations, 2 elbows, 11 beam clamps, and 11 couplings per 100 LF	20.00	LF	36.34	\$727	
571 Wire, copper, stranded, 600 volt, 4/0, type THWN-THHN, in raceway	0.70	CLF	819.22	\$573	
572 Wire, copper, stranded, 600 volt, #4, type THWN-THHN, in raceway	0.30	CLF	235.88	\$71	
573 Rigid galvanized steel conduit, 3-1/2" diameter, to 15' H, incl 2 terminations, 2 elbows, 11 beam clamps, and 11 couplings per 100 LF	20.00	LF	55.63	\$1,113	
574 Wire, copper, stranded, 600 volt, 600 kcmil, type THWN-THHN, in raceway	0.90	CLF	2,041.45	\$1,837	
575 Wire, copper, stranded, 600 volt, #4, type THWN-THHN, in raceway	0.30	CLF	235.88	\$71	
576 Rigid galvanized steel conduit, 3-1/2" diameter, to 15' H, incl 2 terminations, 2 elbows, 11 beam clamps, and 11 couplings per 100 LF	100.00	LF	55.63	\$5,563	
577 Wire, copper, stranded, 600 volt, 600 kcmil, type THWN-THHN, in raceway	4.40	CLF	2,041.45	\$8,982	
578 Wire, copper, stranded, 600 volt, #4, type THWN-THHN, in raceway	1.10	CLF	235.89	\$259	
579 Feeder from Panel "ITEN53" to Panel "ITEN53-1"	1.00	NOTE	0.00	\$0	
580 Rigid galvanized steel conduit nipples, 2-1/2" diameter, 12" long, incl locknuts and bushings	1.00	EA	138.30	\$138	
581 Wire, copper, stranded, 600 volt, 4/0, type THWN-THHN, in raceway	0.50	CLF	819.21	\$410	
582 Wire, copper, stranded, 600 volt, #4, type THWN-THHN, in raceway	0.20	CLF	235.88	\$47	
583 Duplex receptacle, assembled poke-thru device & fitting	1.00	EA	647.47	\$647	
584 Quad receptacle, assembled poke-thru device & fitting	24.00	EA	794.76	\$19,074	
585 Outlet boxes, cast, poke-thru fitting, fire rated, for 3-3/4" floor	14.00	EA	427.39	\$5,984	
586 Outlet boxes, pressed steel, 4" square	168.00	EA	39.30	\$6,603	
587 Outlet boxes, pressed steel, plaster rings, 4" square, concealed	126.00	EA	15.71	\$1,979	
588 Outlet boxes, pressed steel, covers, blank, 4" square	42.00	EA	13.12	\$551	

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ESTIMATE DETAIL - UNIT COST REPORT

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	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
16. Electrical, Communications and Electronic Safety & Security					
Electrical					
589 Outlet boxes, pressed steel, 4-11/16" square, 2-1/8" deep, 3/4" to 1-1/4" KO	11,144	GSF	\$72	\$804,046	\$804,046
590 Outlet boxes, pressed steel, extension rings, 4-11/16" square, 2-1/8" deep	8.00	EA	44.40	\$355	
591 Outlet boxes, pressed steel, covers, raised device, 4-11/16" square	8.00	EA	24.06	\$192	
592 Outlet boxes, cast, 1 gang, FS, 3/4" hub, 2" deep	1.00	EA	81.58	\$82	
593 Duplex receptacle, grounded, 120 volt, 20 amp	107.00	EA	39.16	\$4,190	
594 Duplex receptacle, ground fault interrupting, 20 amp	8.00	EA	71.83	\$575	
595 Duplex receptacle, multi power, 20 amp	22.00	EA	72.41	\$1,593	
596 Duplex receptacle, key switched, 20 amp	1.00	EA	73.56	\$74	
597 Receptacle, 30 amp, 250 volt, NEMA 6	4.00	EA	70.61	\$282	
598 Receptacle, 50 amp, 250 volt, NEMA 6	4.00	EA	91.15	\$365	
599 Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 field bend elbows, 11 beam clamps, and 11 couplings per 100 LF	4,350.00	LF	8.53	\$37,116	
600 Wire, copper, solid, 600 volt, #12, type THWN-THHN, in raceway	143.60	CLF	79.59	\$11,429	
601 Wire, copper, stranded, 600 volt, #8, type THWN-THHN, in raceway	3.00	CLF	132.30	\$397	
602 Wire, copper, stranded, 600 volt, #10, type THWN-THHN, in raceway	3.00	CLF	99.43	\$298	
603 Flexible metallic conduit, steel, 3/4" diameter	40.00	LF	5.55	\$222	
604 Flexible metallic conduit, steel, connectors, plain, 3/4" diameter	12.00	EA	14.39	\$173	
605 Motor rated switch, quiet type, double pole, 30 Amp	1.00	EA	113.17	\$113	
606 Wall plates, stainless steel, 1 gang	107.00	EA	11.86	\$1,269	
607 Wall plate, stainless steel, 2 gang	19.00	EA	18.45	\$351	
608 Weatherproof receptacle cover, 1 gang	1.00	EA	18.85	\$19	
609 Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 field bend elbows, 11 beam clamps, and 11 couplings per 100 LF	1,790.00	LF	6.65	\$11,909	
610 Electric metallic tubing (EMT), 1" diameter, to 15' high, incl 2 terminations, 2 elbows, 11 beam clamps, and 11 couplings per 100 LF	150.00	LF	8.13	\$1,219	
611 Electric metallic tubing (EMT), 1-1/4" diameter, to 15' high, incl 2 terminations, 2 elbows, 11 beam clamps, and 11 couplings per 100 LF	50.00	LF	10.18	\$509	

British Airways - MIA D21 Galleries Lounge-Pkg B 100% Design - Construction Cost

	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
16. Electrical, Communications and Electronic Safety & Security	11,144	GSF	\$72	\$804,046	\$804,046
Electrical					
612 Electric metallic tubing (EMT), 2" diameter, to 15' high, incl 2 terminations, 2 elbows, 11 beam clamps, and 11 couplings per 100 LF	70.00	LF	13.80	\$966	
613 Wire, copper, stranded, 600 volt, #12, type THWN-THHN, in raceway	53.90	CLF	80.62	\$4,345	
614 Wire, copper, stranded, 600 volt, #10, type THWN-THHN, in raceway	8.50	CLF	95.43	\$811	
615 Wire, copper, stranded, 600 volt, #8, type THWN-THHN, in raceway	1.70	CLF	128.30	\$218	
616 Wire, copper, stranded, 600 volt, #6, type THWN-THHN, in raceway	1.70	CLF	176.55	\$300	
617 Wire, copper, stranded, 600 volt, #4, type THWN-THHN, in raceway	3.60	CLF	235.89	\$849	
618 Wire, copper, stranded, 600 volt, #3, type THWN-THHN, in raceway	1.70	CLF	272.12	\$463	
619 Wire, copper, stranded, 600 volt, 4/0, type THWN-THHN, in raceway	2.40	CLF	819.22	\$1,966	
620 Allowance for Motor Feeders and Connection	11,144.00	SF	2.27	\$25,319	
621 Light Fixture Type "P1"	2.00	EA	712.90	\$1,426	
622 Light Fixture Type "P2"	3.00	EA	6,514.27	\$19,543	
623 Light Fixture Type "P3"	12.00	EA	5,058.46	\$60,702	
624 Light Fixture Type "P4A"	5.00	EA	929.56	\$4,648	
625 Light Fixture Type "P4B"	3.00	EA	1,618.55	\$4,856	
626 Light Fixture Type "P5"	7.00	EA	15,957.99	\$111,706	
627 Light Fixture Type "P6"	9.00	EA	632.79	\$5,695	
628 Light Fixture Type P7a	4.00	EA	2,352.97	\$9,412	
629 Light Fixture Type P7b	4.00	EA	2,352.97	\$9,412	
630 Light Fixture Type P8	9.00	EA	552.60	\$4,973	
631 Light Fixture Type P10	17.00	EA	707.10	\$12,021	
632 Light Fixture Type "R1"	87.00	EA	837.34	\$72,849	
633 Light Fixture Type "R3"	46.00	EA	376.08	\$17,300	
634 Light Fixture Type "R5"	8.00	EA	376.08	\$3,009	
635 Light Fixture Type "R6"	31.00	EA	413.57	\$12,821	
636 Light Fixture Type "R7"	6.00	EA	175.80	\$1,055	
637 Light Fixture Type "R8"	6.00	EA	330.59	\$1,984	
638 Light Fixture Type "R9"	4.00	EA	529.96	\$2,120	
639 Light Fixture Type "S1"	21.00	EA	214.31	\$4,500	
640 Light Fixture Type "S2"	136.00	EA	210.13	\$28,578	
641 Light Fixture Type "X"	20.00	EA	321.43	\$6,429	

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	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
16. Electrical, Communications and Electronic Safety & Security					
Electrical	11,144	GSF	\$72	\$804,046	\$804,046
642 Lighting devices, occupancy sensors, dual technology, ceiling/wall mounted	2.00	EA	315.60	\$631	
643 Lighting devices, automatic wall switches, with integral occupancy sensor	10.00	EA	106.07	\$1,061	
644 3 way switch, 20 amp	4.00	EA	50.76	\$203	
645 4 way switch, 20 amp	1.00	EA	114.04	\$114	
646 Fixture whips, 3/8" greenfield, 2 connectors, THHN wire, three #12, 6' long	436.00	EA	40.06	\$17,465	
647 Low voltage switching	15.00	EA	321.83	\$4,828	
648 Low voltage switching, switchplates, 1 gang, stainless steel	15.00	EA	21.76	\$326	
649 Electric metallic tubing (EMT), 1/2" diameter, to 15' high, incl 2 terminations, 2 field bend elbows, 11 beam clamps, and 11 couplings per 100 LF	3,150.00	LF	4.94	\$15,553	
650 Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 field bend elbows, 11 beam clamps, and 11 couplings per 100 LF	600.00	LF	6.68	\$4,006	
651 Wire, copper, solid, 600 volt, #12, type THWN-THHN, in raceway	90.00	CLF	79.59	\$7,163	
652 Outlet boxes, pressed steel, 4" square	397.00	EA	39.30	\$15,603	
653 Outlet boxes, pressed steel, covers, blank, 4" square	382.00	EA	13.12	\$5,012	
654 Outlet boxes, pressed steel, covers, raised device, 4" square	15.00	EA	14.77	\$222	
655 Lighting Control Master Panel	1.00	EA	6,089.92	\$6,090	
656 Allowance for Unspecified General Area Lighting Fixtures and Branch Wiring	1.00	EA	19,064.11	\$19,064	
657 Unshielded twisted pair (Cat5) connector, RJ-45, #24, 4 pair, category 5	30.00	EA	10.50	\$315	
658 Unshielded twisted pair (UTP) cable, solid, plenum, #24, 4 pair, category 5	8.30	CLF	154.32	\$1,281	
659 Air terminal and base, copper, 5/8" dia x 18", over 75' high	4.00	EA	138.65	\$555	
660 Lightning protection cable, copper, 420 lb per thousand feet, over 75' high	50.00	LF	9.44	\$472	
661 Copper connector cable, double bolt connector	2.00	EA	31.86	\$64	

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	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
16. Electrical, Communications and Electronic Safety & Security Electrical	11,144	GSF	\$72	\$804,046	\$804,046
662 Cable support, copper, loop fastener	20.00	EA	19.86	\$397	
16. Electrical, Communications and Electronic Safety & Security Communications	11,144	GSF	\$7	\$74,165	\$74,165
663 Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 field bend elbows, 11 beam clamps, and 11 couplings per 100 LF	900.00	LF	6.86	\$6,173	
664 Outlet boxes, pressed steel, 4-11/16" square, 2-1/8" deep, 3/4" to 1-1/4" KO	30.00	EA	49.72	\$1,492	
665 Voice/Data wall plate, plastic, 1 gang, 4-port, excl voice/data devices	30.00	EA	12.40	\$372	
666 Unshielded twisted pair (UTP) cable, solid, plenum, #24, 4 pair, category 6	90.00	CLF	130.29	\$11,726	
667 Unshielded twisted pair (UTP) connector, RJ-45, #24, 4 pair, category 6	60.00	EA	10.48	\$629	
668 Unshielded twisted pair (UTP) jack, RJ-45, category 6	60.00	EA	14.78	\$887	
669 Wireless Access Point, Ceiling Mounted, excl conduit and cable	6.00	EA	283.84	\$1,703	
670 Patch panel, jack RJ-45/110 type, 48 ports	1.00	EA	783.30	\$783	
671 Data Telecommunication Connection to Furniture	8.00	EA	1,966.07	\$15,729	
672 Allowance for Testing and Commissioning	1.00	LS	18,232.00	\$18,232	
673 FIDS Monitors	2.00	EA	2,000.00	\$4,000	
674 Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 field bend elbows, 11 beam clamps, and 11 couplings per 100 LF	120.00	LF	6.86	\$823	
675 Outlet boxes, pressed steel, 4" square	4.00	EA	39.30	\$157	
676 Outlet boxes, pressed steel, plaster rings, 4" square, concealed	4.00	EA	15.71	\$63	
677 TV System lead-in cable, coaxial, feeder outlet	6.00	CLF	130.86	\$785	
678 T.V. systems outlets	4.00	EA	275.57	\$1,102	

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	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
16. Electrical, Communications and Electronic Safety & Security Communications	11,144	GSF	\$7	\$74,165	\$74,165
679 TV Monitors	4.00	EA	2,000.00	\$8,000	
680 Allowance for Testing and Commissioning	1.00	LS	1,508.80	\$1,509	
16. Electrical, Communications and Electronic Safety & Security Electronic Safety and Security	11,144	GSF	\$11	\$118,606	\$118,606
681 Demo - Smoke detector, electrical demolition, remove	18.00	EA	31.31	\$563	
682 Demo - Fire alarm horn and strobe light, electrical demolition, remove	11.00	EA	44.98	\$495	
683 Demo - Fire alarm pull station, electrical demolition, remove	1.00	EA	31.30	\$31	
684 Demo - Conduit, electric metallic tubing (EMT), 1/2" to 1" diameter, electrical demolition, remove conduit to 15' high, including fittings & hangers	900.00	LF	1.80	\$1,619	
685 Demo - Junction boxes, 4" square & octagon, electrical demolition, remove, including removal of supports and terminations	30.00	EA	9.00	\$270	
686 Demo - Fire alarm cable, FEP teflon, 150 volt, to 200 Deg.C, #18, 2 pair, electrical demolition, removed from in place conduit, to 15' high	10.00	CLF	17.81	\$178	
687 Detection system, visual alarm, ADA type, excluding wires & conduits	18.00	EA	223.00	\$4,014	
688 Detection Systems, smoke detector, addressable type, excl. wires & conduit	21.00	EA	368.27	\$7,734	
689 Detection system, fire alarm, detector, heat (addressable type), excl. wires & conduit	3.00	EA	393.36	\$1,180	
690 Detection system, pull station, addressable, excluding wires & conduits	1.00	EA	265.18	\$265	
691 Detection system, fire alarm control panel, addressable interface device, excluding wires & conduits	3.00	EA	250.30	\$751	
692 Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 field bend elbows, 11 beam clamps, and 11 couplings per 100 LF	1,230.00	LF	6.86	\$8,437	

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	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
16. Electrical, Communications and Electronic Safety & Security					
Electronic Safety and Security					
693 Outlet boxes, pressed steel, 4-11/16" square, 2-1/8" deep, 3/4" to 1-1/4" KO	11,144	GSF	\$11	\$118,606	\$118,606
694 Outlet boxes, pressed steel, covers, blank, 4-11/16" square	70.00	EA	47.66	\$3,336	
695 Outlet boxes, pressed steel, plaster rings, 4-11/16" square	24.00	EA	17.09	\$410	
696 Fire alarm cable, FEP teflon, 150 volt, to 200 Deg.C, #18, 2 pair	46.00	EA	23.94	\$1,101	
697 Allowance for Fire Alarm Devices in Unassigned General Area	14.00	CLF	265.25	\$3,713	
698 Allowance for Fire Alarm Engineering, Re-programming, Testing and Commissioning	1.00	LS	1,200.00	\$1,200	
699 Detection system, card reader, flush type, standard, excl. wires & conduit	1.00	LS	22,284.00	\$22,284	
700 Intercommunication remote station, excl rough-in wires, cables & conduits	4.00	EA	667.12	\$2,668	
701 Detection system, Omron Control Panel, excl. wires & conduit	2.00	EA	273.08	\$546	
702 Pull boxes, sheet metal, type SC, 12" W x 12" H x 6" D, NEMA 1	1.00	EA	2,641.51	\$2,642	
703 Detection system, strobe & horn, excluding wires & conduits	1.00	EA	165.83	\$166	
704 Detection system, visual alarm, excluding wires & conduits	2.00	EA	306.27	\$613	
705 Detection system, electronic lock, excluding wires & conduits	2.00	EA	223.01	\$446	
706 Fire alarm control panel, addressable interface device, excluding wires & conduits	2.00	EA	295.51	\$591	
707 Outlet boxes, pressed steel, 4-11/16" square, 2-1/8" deep, 3/4" to 1-1/4" KO	2.00	EA	253.73	\$507	
708 Outlet boxes, pressed steel, extension rings, 4-11/16" square, 2-1/8" deep	6.00	EA	47.66	\$286	
709 Outlet boxes, pressed steel, 4" square	6.00	EA	33.56	\$201	
710 Outlet boxes, pressed steel, covers, blank, 4" square	6.00	EA	38.80	\$233	
711 Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 field bend elbows, 11 beam clamps, and 11 couplings per 100 LF	6.00	EA	13.12	\$79	
712 Control cable, shielded	300.00	LF	6.68	\$2,003	
713 Fire alarm cable, FEP teflon, 150 volt, to 200 Deg.C, #18, 2 pair	4.67	CLF	429.77	\$2,007	
	1.00	CLF	265.25	\$265	

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	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
16. Electrical, Communications and Electronic Safety & Security					
Electronic Safety and Security					
714 Allowance for Access Control Door, Programming, Testing and Commissioning	2.00	EA	4,042.83	\$8,086	
715 Public address system, speaker, conventional, office	50.00	EA	286.10	\$14,305	
716 Electric metallic tubing (EMT), 1/2" diameter, to 15' high, incl 2 terminations, 2 field bend elbows, 11 beam clamps, and 11 couplings per 100 LF	750.00	LF	4.94	\$3,703	
717 Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 field bend elbows, 11 beam clamps, and 11 couplings per 100 LF	200.00	LF	6.86	\$1,372	
718 Outlet boxes, pressed steel, 4" square	50.00	EA	39.30	\$1,965	
719 Outlet boxes, pressed steel, covers, blank, 4" square	50.00	EA	13.12	\$656	
720 Sound cable, shielded with drain, #16-2 conductor, in conduit	17.00	CLF	98.07	\$1,667	
721 Sound cable, shielded with drain, #12-2 conductor, in conduit	4.50	CLF	123.41	\$555	
722 Flexible metallic conduit, steel, 3/4" diameter	300.00	LF	5.55	\$1,665	
723 Flexible metallic conduit, steel, connectors, plain, 3/4" diameter	100.00	EA	14.39	\$1,439	
724 Allowance for Testing and Commissioning	1.00	LS	3,017.60	\$3,018	
725 Closed circuit television system (CCTV), surveillance, for additional camera stations, add	2.00	EA	1,124.92	\$2,250	
726 Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 field bend elbows, 11 beam clamps, and 11 couplings per 100 LF	300.00	LF	6.68	\$2,003	
727 Shielded non-plenum, 300 V PVC jacket, #18, 4 pair	3.30	CLF	430.08	\$1,419	
728 Coaxial cable, 75 ohm, RG A/U #59 cable	12.00	CLF	134.02	\$1,608	
729 Outlet boxes, pressed steel, 4" square	2.00	EA	39.30	\$79	
730 Outlet boxes, pressed steel, covers, blank, 4" square	2.00	EA	13.12	\$26	
731 Cable terminations	4.00	EA	12.63	\$51	
732 Camera testing, programming and commissioning	2.00	EA	952.29	\$1,905	
	11,144	GSF	\$11	\$118,606	\$118,606

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	<u>QTY</u>	<u>UOM</u>	<u>UNIT COST</u>	<u>SUB TOTAL</u>	<u>LEVEL TOTAL</u>
Prime Contractor MarkUps					
Prime Contractor Markup	1	LS	\$822,186	\$822,186	\$822,186
733 Prime Contractor Markups - 15%	1.00	LS	822,186.00	\$822,186	