

# 141<sup>st</sup> Field Artillery Battalion Readiness Center

Jackson Barracks  
New Orleans, Louisiana



National Guard Bureau  
Project No. 220027



Louisiana Army National Guard

## *Volume 5 of 5* *Cost Estimates*

**35% Design Submittal**  
**Preliminary Review Documents**  
**3 May 2006**

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**Broadmoor Design Group, Dean Duplantier, Architect,  
A Professional Architectural Corporation /  
Blitch Knevel Architects, Inc. - A Joint Venture**



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## A. Disclaimer

These documents, including supporting documentation, calculations and design analysis, are conceptual in nature and are not suitable for construction. It is the intent of these documents to clearly delineate the baseline minimum scale, scope and quality of the project. It is the responsibility of the design-builder that his proposal provides for a complete and functional facility responding to relative Army National Guard criteria, recognized industry standards and applicable building codes regardless of the content of these conceptual specifications.

Further, it will be the responsibility of the successful design-builder and his architect-of-record to prepare complete construction documents responding to the fullest intent of the conceptual drawings and specifications.



## **B. Preliminary Design Estimated Cost Summary**



Louisiana Army National Guard  
NGB Project No. 220027  
PRELIMINARY DESIGN ESTIMATED COST  
3-May-06

**141st Field Artillery Battalion Readiness Center** **\$32,208,800**

**Area C Central Plant** **\$3,966,692**

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**TOTAL** **\$36,175,492**





## **C. Alternate Bid Items**



Louisiana Army National Guard  
 NGB Project No. 220027  
 ALTERNATE BID ITEMS  
 3-May-06

**CONTRACT AMOUNT TOTAL** ..... **\$43,768,898**

**BASE BID ESTIMATE TOTAL** ..... **\$36,175,492**

**ABI TOTAL (MAX)** ..... **\$7,593,406**

**ALTERNATE 1**

ADD 1A All work involved in providing redundancy in the HVAC system including piping, valves, and controls for the furnishing and installation of Chiller CH-3 (including the VFD), Cooling Tower CT-3, Chilled Water Pump M-10, and Condenser Water Pump PM-14, as shown on the Preliminary Documents. \$750,000

ADD 1B All work involved in the added costs associated with HVAC chiller demands including furnishing and installing the piping for the 61st Readiness Center, the Dining Facility, and the future Museum area. Work will also include excavation, trenching, and backfilling and valve boxes and valves for each respective facility. Connections from the valve boxes to the buildings are not part of this work and falls under a separate contract. Refer to Preliminary Documents for proposed layout. \$1,320,200

**ALTERNATE 2**

ADD 2A All work associated with an upgrade to include the Flag Plaza and Entry Plaza, as proposed on the Preliminary Documents. This work includes the foundation, raised platforms with finished steps and other work associated with brick, pavers, and flagstone surfacing. The canons and statue feature will be provided by the LAARNG. \$250,000  
Allowance

ADD 2B All work associated with the addition of brick pavers over a concrete base for the POV parking and entrance access drive in Area C, as proposed on the Preliminary Documents. This add is in lieu of concrete surfacing. \$75,000

**ALTERNATE 2 cont.**

|        |  |                        |
|--------|--|------------------------|
| ADD 2C | All work, including preparation and pouring of POV and MV parking lots, as proposed on the Preliminary Documents respective of the 1390/91 guidelines and wheel load and vehicle sizes. This work will be in lieu of existing surfacing and new crushed stone paving as required for the Base Bid. | \$800,000              |
| ADD 2D | All work associated with the design and installation of landscaping and an irrigation system for planting beds in Area C relative to the limits of construction for this contract.   | \$100,000<br>Allowance |
| ADD 2E | All work associated with the purchasing and installation of 512 single tier lockers, walk-off mats, entrance foot grills and wire mesh partitions, as illustrated on the Preliminary Documents and any other related work required for proper installations.                                       | 153,600                |

**ALTERNATE 3**

|       |  |             |
|-------|--|-------------|
| ADD 3 | All work associated with the refurbishment of the Vehicle Maintenance Facility, OMS #12, in Area E, as outlined on the Preliminary Documents and as required to facilitate fully functional operations to accommodate the 61st and 141st Battalions. The design/build team is responsible in obtaining any data needed to properly evaluate this goal. | \$3,123,743 |
|-------|--|-------------|

ABI TOTAL (ESTIMATED)

**\$6,572,543**

## **D. 141<sup>st</sup> Field Artillery Battalion Readiness Center**



# 141st Field Artillery Battalion Readiness Center

3-May-06

| <i>Divisional Description</i>                          | <i>Page</i> | <i>Subtotal Cost</i> | <i>111,771<br/>Cost/GSF</i> | <i>Percent<br/>of Total</i> |
|--|-------------|----------------------|-----------------------------|-----------------------------|
| <i>Division 01 - General Requirements</i>              | 2           | \$ 1,814,837         | \$ 16.24                    | 5.63%                       |
| <i>Division 02 - Sitework</i>                          | 3           | \$ 3,079,259         | \$ 27.55                    | 9.56%                       |
| <i>Division 03 - Concrete</i>                          | 4           | \$ 1,600,760         | \$ 14.32                    | 4.97%                       |
| <i>Division 04 - Masonry</i>                           | 5           | \$ 2,494,960         | \$ 22.32                    | 7.75%                       |
| <i>Division 05 - Metals</i>                            | 6           | \$ 4,898,190         | \$ 43.82                    | 15.21%                      |
| <i>Division 06 - Wood &amp; Plastics</i>               | 7           | \$ 131,733           | \$ 1.18                     | 0.41%                       |
| <i>Division 07 - Thermal &amp; Moisture Protection</i> | 8           | \$ 905,525           | \$ 8.10                     | 2.81%                       |
| <i>Division 08 - Doors &amp; Windows</i>               | 9           | \$ 977,270           | \$ 8.74                     | 3.03%                       |
| <i>Division 09 - Finishes</i>                          | 10          | \$ 2,169,459         | \$ 19.41                    | 6.74%                       |
| <i>Division 10 - Specialties</i>                       | 11          | \$ 128,600           | \$ 1.15                     | 0.40%                       |
| <i>Division 11 - Equipment</i>                         | 12          | \$ 10,000            | \$ 0.09                     | 0.03%                       |
| <i>Division 12 - Furnishings</i>                       | 13          | \$ 10,800            | \$ 0.10                     | 0.03%                       |
| <i>Division 13 - Special Construction</i>              | 14          | \$ -                 | \$ -                        | 0.00%                       |
| <i>Division 14 - Conveying Systems</i>                 | 15          | \$ 185,000           | \$ 1.66                     | 0.57%                       |
| <i>Division 15 - Mechanical &amp; Plumbing</i>         | 16          | \$ 3,621,108         | \$ 32.40                    | 11.24%                      |
| <i>Division 16 - Electrical</i>                        | 17          | \$ 3,464,038         | \$ 30.99                    | 10.75%                      |

|                                |               |                      |                  |                |
|--------------------------------|---------------|----------------------|------------------|----------------|
| <b>Subtotal</b>                |               | <b>\$ 25,491,538</b> | <b>\$ 228.07</b> | <b>79.14%</b>  |
| <b>Contingency</b>             | <i>10.00%</i> | <b>\$ 2,549,154</b>  | <b>\$ 22.81</b>  | <b>7.91%</b>   |
|                                |               | <b>\$ 28,040,691</b> | <b>\$ 250.88</b> | <b>87.06%</b>  |
| <b>Building Permit</b>         | <i>0.55%</i>  | <b>\$ 154,224</b>    | <b>\$ 1.38</b>   | <b>0.48%</b>   |
|                                |               | <b>\$ 28,194,915</b> | <b>\$ 252.26</b> | <b>87.54%</b>  |
| <b>Builders Risk Insurance</b> | <i>0.50%</i>  | <b>\$ 140,203</b>    | <b>\$ 1.25</b>   | <b>0.44%</b>   |
|                                |               | <b>\$ 28,335,119</b> | <b>\$ 253.51</b> | <b>87.97%</b>  |
| <b>Bond</b>                    | <i>0.60%</i>  | <b>\$ 168,244</b>    | <b>\$ 1.51</b>   | <b>0.52%</b>   |
|                                |               | <b>\$ 28,503,363</b> | <b>\$ 255.02</b> | <b>88.50%</b>  |
| <b>Design / Build Fee</b>      | <i>13.00%</i> | <b>\$ 3,705,437</b>  | <b>\$ 33.15</b>  | <b>11.50%</b>  |
|                                |               | <b>\$ 32,208,800</b> | <b>\$ 288.17</b> | <b>100.00%</b> |
| <b>GRAND TOTAL</b>             |               | <b>\$ 32,208,800</b> | <b>\$ 288.17</b> | <b>100.00%</b> |



BROADMOOR DESIGN GROUP | DEAN M. DUPLANTIER, ARCHITECT  
A PROFESSIONAL ARCHITECTURAL CORPORATION





## 141st Field Artillery Battalion Readiness Center

3-May-06

## Division 01 - General Requirements

Building GSF

111,771

| Cost Code | Item Description                            | Quantity | Unit | Cost/Unit     | Item Cost    | Cost/GSF |
|-----------|---|----------|------|---------------|--------------|----------|
|           | Preconstruction Services                    | 1        | ls   | \$ 75,000.00  | \$ 75,000    | \$ 0.67  |
|           | Project Manager                             | 24       | Mo   | \$ 8,500.00   | \$ 204,000   | \$ 1.83  |
|           | Asst. Project Manager 1 ea.                 | 20       | Mo   | \$ 4,300.00   | \$ 86,000    | \$ 0.77  |
|           | Superintendent                              | 20       | Mo   | \$ 6,500.00   | \$ 130,000   | \$ 1.16  |
|           | Asst. Superintendent 1 ea.                  | 20       | Mo   | \$ 3,800.00   | \$ 76,000    | \$ 0.68  |
|           | Scheduler                                   | 24       | Mo   | \$ 5,000.00   | \$ 120,000   | \$ 1.07  |
|           | Engr & Helper                               | 20       | Mo   | \$ 6,500.00   | \$ 130,000   | \$ 1.16  |
|           | Q. C. Inspector 3 ea.                       | 24       | Mo   | \$ 16,500.00  | \$ 396,000   | \$ 3.54  |
|           | F.F. & E. Coordinator                       | 12       | Mo   | \$ 5,000.00   | \$ 60,000    | \$ 0.54  |
|           | Safety Officer                              | 20       | Mo   | \$ 4,500.00   | \$ 90,000    | \$ 0.81  |
|           | Field Auditor                               | 18       | Wk   | \$ 4,500.00   | \$ 81,000    | \$ 0.72  |
|           | Secretary                                   | 24       | Mo   | \$ 3,200.00   | \$ 76,800    | \$ 0.69  |
|           | Watchman                                    | 20       | Mo   | \$ 1,500.00   | \$ 30,000    | \$ 0.27  |
|           | Auto Allowances                             | 128      | Mo   | \$ 650.00     | \$ 83,200    | \$ 0.74  |
|           | Office Overhead                             |          |      |               | \$ -         | \$ -     |
|           | Mobilization & Demob.                       | 1        | ls   | \$ 60,000.00  | \$ 60,000    | \$ 0.54  |
|           | Jobsite Office(s)                           | 20       | Mo   | \$ 2,000.00   | \$ 40,000    | \$ 0.36  |
|           | Tool Shack                                  | 20       | Mo   | \$ 600.00     | \$ 12,000    | \$ 0.11  |
|           | Jobsite Electricity                         | 20       | Mo   | \$ 6,000.00   | \$ 120,000   | \$ 1.07  |
|           | Jobsite Telephone                           | 20       | Mo   | \$ 1,300.00   | \$ 26,000    | \$ 0.23  |
|           | Jobsite Water & Ice                         | 20       | Mo   | \$ 750.00     | \$ 15,000    | \$ 0.13  |
|           | Jobsite Toilet                              | 20       | Mo   | \$ 800.00     | \$ 16,000    | \$ 0.14  |
|           | Jobsite Postage                             | 20       | Mo   | \$ 450.00     | \$ 9,000     | \$ 0.08  |
|           | Jobsite Radios                              | 20       | Mo   | \$ 750.00     | \$ 15,000    | \$ 0.13  |
|           | Office Equipment                            | 20       | Mo   | \$ 3,500.00   | \$ 70,000    | \$ 0.63  |
|           | Office Supplies                             | 20       | Mo   | \$ 400.00     | \$ 8,000     | \$ 0.07  |
|           | Plans & Printing                            | 1        | ls   | \$ 20,000.00  | \$ 20,000    | \$ 0.18  |
|           | Coordination Drawings                       | 1        | ls   | \$ 10,000.00  | \$ 10,000    | \$ 0.09  |
|           | Progress Photos                             | 20       | Mo   | \$ 200.00     | \$ 4,000     | \$ 0.04  |
|           | Project Sign                                | 1        | ls   | \$ 3,000.00   | \$ 3,000     | \$ 0.03  |
|           | CPM Schedule                                | 1        | ls   | \$ 10,000.00  | \$ 10,000    | \$ 0.09  |
|           | Access Roadways                             | 1        | ls   | \$ 40,000.00  | \$ 40,000    | \$ 0.36  |
|           | Temp Yard                                   | 1        | ls   | \$ 20,000.00  | \$ 20,000    | \$ 0.18  |
|           | As-Built Drawings                           | 1        | ls   | \$ 10,000.00  | \$ 10,000    | \$ 0.09  |
|           | O & M Manuals                               | 1        | ls   | \$ 5,000.00   | \$ 5,000     | \$ 0.04  |
|           | Personnel Hoist ( Mob., Demob., Fdn., Etc.) | 1        | ls   | \$ 150,000.00 | \$ 150,000   | \$ 1.34  |
|           | Personnel Hoist ( Rent) 3 ea.               | 11       | Mo   | \$ 21,300.00  | \$ 234,300   | \$ 2.10  |
|           | Hoisting Operator 3 ea.                     | 11       | Mo   | \$ 20,000.00  | \$ 220,000   | \$ 0.37  |
|           | Equipment Fuel, Etc.                        | 20       | Mo   | \$ 500.00     | \$ 10,000    | \$ 0.09  |
|           | Building Power Usage                        | 18       | Mo   | \$ 3,000.00   | \$ 54,000    | \$ 0.48  |
|           | Building Temp Water                         | 20       | Mo   | \$ 700.00     | \$ 14,000    | \$ 0.13  |
|           | Property Protection                         | 1        | ls   | \$ 15,000.00  | \$ 15,000    | \$ 0.13  |
|           | Safety Requirements                         | 20       | Mo   | \$ 6,000.00   | \$ 120,000   | \$ 1.07  |
|           | Signs & Barricades                          | 1        | ls   | \$ 1,000.00   | \$ 1,000     | \$ 0.01  |
|           | Fence/Temp Part.                            | 1        | ls   | \$ 12,000.00  | \$ 12,000    | \$ 0.11  |
|           | Temp. Handrails                             | 20       | Mo   | \$ 4,000.00   | \$ 80,000    | \$ 0.72  |
|           | Clean-Up                                    | 20       | Mo   | \$ 2,500.00   | \$ 50,000    | \$ 0.45  |
|           | Final Clean-Up                              | 1        | ls   | \$ 50,000.00  | \$ 50,000    | \$ 0.45  |
|           | Trash Dumpster                              | 20       | Mo   | \$ 5,000.00   | \$ 100,000   | \$ 0.89  |
|           | Miscl Hauling & Fees                        | 20       | Mo   | \$ 6,000.00   | \$ 120,000   | \$ 1.07  |
|           | Dewatering                                  | 18       | Mo   | \$ 3,000.00   | \$ 54,000    | \$ 0.48  |
|           | Hardware Store                              | 1        | ls   | \$ 20,000.00  | \$ 20,000    | \$ 0.18  |
|           | Testing Lab                                 | 10       | Mo   | \$ 3,200.00   | \$ 32,000    | \$ 0.29  |
|           | Crane Mob., Demob., Fdn., Etc.              | 1        | ls   | \$ 100,000.00 | \$ 100,000   | \$ 0.89  |
|           | Crane Operator 2 ea.                        | 11       | Mo   | \$ 20,750.00  | \$ 228,250   | \$ 2.04  |
|           | Crane Rent 2 ea.                            | 11       | Mo   | \$ 30,000.00  | \$ 330,000   | \$ 2.95  |
|           | Traffic Control                             | 20       | Mo   | \$ 3,000.00   | \$ 60,000    | \$ 0.54  |
|           | Association Dues                            | 1        | ls   | \$ 15,000.00  | \$ 15,000    | \$ 0.13  |
|           | Subtotal                                    |          |      |               | \$ 4,220,550 |          |
|           | <b>General Requirements</b>                 |          |      |               | \$ 1,814,837 | \$ 16.24 |







141st Field Artillery Battalion Readiness Center

3-May-06

Division 05 - Metals

Building GSF

111,771

| Cost Code | Item Description                | Quantity | Unit | Cost/Unit     | Item Cost    | Cost/GSF |
|-----------|---------------------------------|----------|------|---------------|--------------|----------|
|           | Metal Stairs                    | 243      | rs   | \$ 800.00     | \$ 194,400   | \$ 1.74  |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           | Structural Floor Framing        | 141915   | sf   | \$ 26.00      | \$ 3,689,790 | \$ 33.01 |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           | Structural Roof Framing         | 39550    | sf   | \$ 20.00      | \$ 791,000   | \$ 7.08  |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           | Elevator Beams                  | 1        | ls   | \$ 5,000.00   | \$ 5,000     | \$ 0.04  |
|           | Decorative Interior Railing     | 50       | lf   | \$ 300.00     | \$ 15,000    | \$ 0.13  |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           | Misc. Steel                     | 1        | ls   | \$ 150,000.00 | \$ 150,000   | \$ 1.34  |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           | S/S Handrail @ Monumental Stair | 150      | lf   | \$ 300.00     | \$ 45,000    | \$ 0.40  |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           | Decorative Window Grates        | 20       | ea   | \$ 400.00     | \$ 8,000     | \$ 0.07  |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           |                                 |          |      |               | \$ -         | \$ -     |
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|           |                                 |          |      |               | \$ -         | \$ -     |
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|           |                                 |          |      |               | \$ -         | \$ -     |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           |                                 |          |      |               | \$ -         | \$ -     |
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|           |                                 |          |      |               | \$ -         | \$ -     |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           |                                 |          |      |               | \$ -         | \$ -     |
|           |                                 |          |      |               | \$ -         | \$ -     |

|                             |  |  |  |                       |              |          |
|-----------------------------|--|--|--|-----------------------|--------------|----------|
| <b>Division 05 - Metals</b> |  |  |  | <b>Subtotal Costs</b> | \$ 4,898,190 | \$ 43.82 |
|-----------------------------|--|--|--|-----------------------|--------------|----------|

141st Field Artillery Battalion Readiness Center

3-May-06

Division 06 - Wood & Plastics

Building GSF

111,771

| Cost Code | Item Description       | Quantity | Unit  | Cost/Unit    | Item Cost | Cost/GSF |
|-----------|------------------------|----------|-------|--------------|-----------|----------|
|           | Blocking and Nailers   | 86,415   | sf    | \$ 0.50      | \$ 43,208 | \$ 0.39  |
|           | Architectural Woodwork | 1        | ls    | \$ 64,125.00 | \$ 64,125 | \$ 0.57  |
|           | Shower Enclosures      | 9        | ea    | \$ 400.00    | \$ 3,600  | \$ 0.03  |
|           | Atrium Upgrade         | 1        | allow | \$ 20,000.00 | \$ 20,000 | \$ 0.18  |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           | Wood Base              | 100      | lf    | \$ 8.00      | \$ 800    | \$ 0.01  |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |
|           |                        |          |       |              | \$ -      | \$ -     |

|  |  |  |  |                       |                   |                |
|--|--|--|--|-----------------------|-------------------|----------------|
| <b>Division 06 - Wood &amp; Plastics</b> |  |  |  | <b>Subtotal Costs</b> | <b>\$ 131,733</b> | <b>\$ 1.18</b> |
|--|--|--|--|-----------------------|-------------------|----------------|



141st Field Artillery Battalion Readiness Center

3-May-06

Division 08 - Doors & Windows

Building GSF

111,771

| Cost Code | Item Description     | Quantity | Unit | Cost/Unit    | Item Cost  | Cost/GSF |
|-----------|----------------------|----------|------|--------------|------------|----------|
|           | Doors & Frames       | 200      | lv   | \$ 500.00    | \$ 100,000 | \$ 0.89  |
|           | Finish Hardware      | 200      | ea   | \$ 350.00    | \$ 70,000  | \$ 0.63  |
|           |                      |          |      |              | \$ -       | \$ -     |
|           |                      |          |      |              | \$ -       | \$ -     |
|           | Roll-up Doors        | 3        | ea   | \$ 15,000.00 | \$ 45,000  | \$ 0.40  |
|           |                      |          |      |              | \$ -       | \$ -     |
|           |                      |          |      |              | \$ -       | \$ -     |
|           | Fire Shutter         | 1        | ls   | \$ 15,000.00 | \$ 15,000  | \$ 0.13  |
|           |                      |          |      |              | \$ -       | \$ -     |
|           |                      |          |      |              | \$ -       | \$ -     |
|           | Folding Partitions   | 1080     | sf   | \$ 60.00     | \$ 64,800  | \$ 0.58  |
|           |                      |          |      |              | \$ -       | \$ -     |
|           | Storefront Entrance  | 575      | sf   | \$ 125.00    | \$ 71,875  | \$ 0.64  |
|           |                      |          |      |              | \$ -       | \$ -     |
|           |                      |          |      |              | \$ -       | \$ -     |
|           | Interior Glass Walls | 208      | sf   | \$ 90.00     | \$ 18,720  | \$ 0.17  |
|           |                      |          |      |              | \$ -       | \$ -     |
|           |                      |          |      |              | \$ -       | \$ -     |
|           | Windows              | 4735     | sf   | \$ 125.00    | \$ 591,875 | \$ 5.30  |
|           |                      |          |      |              | \$ -       | \$ -     |
|           |                      |          |      |              | \$ -       | \$ -     |
|           |                      |          |      |              | \$ -       | \$ -     |
|           |                      |          |      |              | \$ -       | \$ -     |
|           |                      |          |      |              | \$ -       | \$ -     |
|           |                      |          |      |              | \$ -       | \$ -     |
|           |                      |          |      |              | \$ -       | \$ -     |
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|  |  |  |  |                       |                   |                |
|--|--|--|--|-----------------------|-------------------|----------------|
| <i>Division 08 - Doors &amp; Windows</i> |  |  |  | <b>Subtotal Costs</b> | <b>\$ 977,270</b> | <b>\$ 8.74</b> |
|--|--|--|--|-----------------------|-------------------|----------------|

141st Field Artillery Battalion Readiness Center

3-May-06

Division 9 - Finishes

Building GSF

111,771

| <b>Cost Code</b> | <b>Item Description</b>                      | <b>Quantity</b> | <b>Unit</b> | <b>Cost/Unit</b> | <b>Item Cost</b> | <b>Cost/GSF</b> |
|------------------|--|-----------------|-------------|------------------|------------------|-----------------|
|                  | Studs, Drywall, Insul. & Acoustical Ceilings | 85,415          | sf          | \$ 15.50         | \$ 1,323,933     | \$ 11.85        |
|                  | Plaster Soffits                              | 750             | sf          | \$ 15.00         | \$ 11,250        | \$ 0.10         |
|                  | <b>Flooring:</b>                             |                 |             |                  | \$ -             | \$ -            |
|                  | Carpet FF&E, Install Only                    | 4,920           | yd          | \$ 7.95          | \$ 39,114        | \$ 0.35         |
|                  | Terrazzo                                     | 8,500           | sf          | \$ 15.00         | \$ 127,500       | \$ 1.14         |
|                  | Porcelain Tile                               | 4,730           | sf          | \$ 12.00         | \$ 56,760        | \$ 0.51         |
|                  | VCT  | 22,025          | sf          | \$ 1.50          | \$ 33,038        | \$ 0.30         |
|                  | Sealed concrete                              | 17,080          | sf          | \$ 0.50          | \$ 8,540         | \$ 0.08         |
|                  |  |                 |             |                  | \$ -             | \$ -            |
|                  | <b>Base:</b>                                 |                 |             |                  | \$ -             | \$ -            |
|                  | Wood (See millwork)                          |                 |             |                  | \$ -             | \$ -            |
|                  |  |                 |             |                  | \$ -             | \$ -            |
|                  | Quarry Tile                                  |                 | lf          | \$ 6.50          | \$ -             | \$ -            |
|                  | Vinyl  | 11,875          | lf          | \$ 1.50          | \$ 17,813        |                 |
|                  |  |                 |             |                  | \$ -             | \$ -            |
|                  |  |                 |             |                  | \$ -             | \$ -            |
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|                  |  |                 |             |                  | \$ -             | \$ -            |
|                  | <b>Walls:</b>                                |                 |             |                  | \$ -             | \$ -            |
|                  | Painted                                      | 141,155         | sf          | \$ 2.25          | \$ 317,599       | \$ 2.84         |
|                  | FRP Panels                                   | 0               | sf          | \$ 3.50          | \$ -             | \$ -            |
|                  | VWC FF&E, Install Only                       | 0               | sf          | \$ 1.25          | \$ -             | \$ -            |
|                  | Textured                                     | 0               | sf          | \$ 5.00          | \$ -             | \$ -            |
|                  |  |                 |             |                  | \$ -             | \$ -            |
|                  | Tape   | 67,805          | sf          | \$ 0.65          | \$ 44,073        | \$ 0.39         |
|                  |  |                 |             |                  | \$ -             | \$ -            |
|                  |  |                 |             |                  | \$ -             | \$ -            |
|                  |  |                 |             |                  | \$ -             | \$ -            |
|                  |  |                 |             |                  | \$ -             | \$ -            |
|                  | Paint Gypboard Ceilings                      | 27,080          | sf          | \$ 2.25          | \$ 60,930        | \$ 0.55         |
|                  | Paint Doors and Frames                       | 200             | ea          | \$ 150.00        | \$ 30,000        | \$ 0.27         |
|                  | Paint Exposed Structure                      | 10,995          | sf          | \$ 1.85          | \$ 20,341        | \$ 0.18         |
|                  |  |                 |             |                  | \$ -             | \$ -            |
|                  |  |                 |             |                  | \$ -             | \$ -            |
|                  |  |                 |             |                  | \$ -             | \$ -            |
|                  | Terrazzo Stair Treads & Risers               | 81              | ea          | \$ 890.00        | \$ 72,090        | \$ 0.64         |
|                  |  |                 |             |                  | \$ -             | \$ -            |
|                  | Vinyl Stair Treads & Risers                  | 162             | ea          | \$ 40.00         | \$ 6,480         | \$ 0.06         |
|                  |  |                 |             |                  | \$ -             | \$ -            |
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|                              |  |  |  |                       |              |          |
|------------------------------|--|--|--|-----------------------|--------------|----------|
| <i>Division 9 - Finishes</i> |  |  |  | <i>Subtotal Costs</i> | \$ 2,169,459 | \$ 19.41 |
|------------------------------|--|--|--|-----------------------|--------------|----------|











141st Field Artillery Battalion Readiness Center

3-May-06

**Division 15 - Mechanical & Plumbing**

**Building GSF**

**111,771**

| Cost Code | Item Description | Quantity | Unit  | Cost/Unit    | Item Cost    | Cost/GSF |
|-----------|------------------|----------|-------|--------------|--------------|----------|
|           | Fire Protection  | 125,965  | sf    | \$ 2.50      | \$ 314,913   | \$ 2.82  |
|           | Fire Main        | 1        | allow | \$ 50,000.00 | \$ 50,000    | \$ 0.45  |
|           |                  |          |       |              | \$ -         | \$ -     |
|           |                  |          |       |              | \$ -         | \$ -     |
|           | Plumbing & HVAC  | 125,965  | sf    | \$ 25.85     | \$ 3,256,195 | \$ 29.13 |
|           |                  |          |       | \$ -         | \$ -         | \$ -     |
|           |                  |          |       |              | \$ -         | \$ -     |
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|  |  |  |  |                       |                     |                 |
|--|--|--|--|-----------------------|---------------------|-----------------|
| <b>Division 15 - Mechanical &amp; Plumbing</b> |  |  |  | <i>Subtotal Costs</i> | <b>\$ 3,621,108</b> | <b>\$ 32.40</b> |
|--|--|--|--|-----------------------|---------------------|-----------------|

141st Field Artillery Battalion Readiness Center

3-May-06

Division 16 - Electrical

Building GSF

111,771

| Cost Code | Item Description           | Quantity | Unit | Cost/Unit | Item Cost    | Cost/GSF |
|-----------|----------------------------|----------|------|-----------|--------------|----------|
|           | Building Electrical System | 125,965  | sf   | \$ 21.00  | \$ 2,645,265 | \$ 23.67 |
|           |                            |          |      |           | \$ -         | \$ -     |
|           | Security                   | 125,965  | sf   | \$ 4.00   | \$ 503,860   | \$ 4.51  |
|           | Telecom / Data             | 125,965  | sf   | \$ 2.50   | \$ 314,913   | \$ 2.82  |
|           |                            |          |      |           | \$ -         | \$ -     |
|           |                            |          |      |           | \$ -         | \$ -     |
|           |                            |          |      |           | \$ -         | \$ -     |
|           |                            |          |      |           | \$ -         | \$ -     |
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|           |                            |          |      |           | \$ -         | \$ -     |
|           |                            |          |      |           | \$ -         | \$ -     |

|                                 |  |  |  |                       |                     |                 |
|---------------------------------|--|--|--|-----------------------|---------------------|-----------------|
| <b>Division 16 - Electrical</b> |  |  |  | <b>Subtotal Costs</b> | <b>\$ 3,464,038</b> | <b>\$ 30.99</b> |
|---------------------------------|--|--|--|-----------------------|---------------------|-----------------|

## **E. Area C Central Plant**



## Area C Central Plant

3-May-06

| <i>Divisional Description</i>                          | <i>Page</i> | <i>Subtotal Cost</i> | <i>3,530<br/>Cost/GSF</i> | <i>Percent<br/>of Total</i> |
|--|-------------|----------------------|---------------------------|-----------------------------|
| <i>Division 01 - General Requirements</i>              | 2           | \$ 482,073           | \$ 136.56                 | 12.15%                      |
| <i>Division 02 - Sitework</i>                          | 3           | \$ 119,094           | \$ 33.74                  | 3.00%                       |
| <i>Division 03 - Concrete</i>                          | 4           | \$ 314,860           | \$ 89.20                  | 7.94%                       |
| <i>Division 04 - Masonry</i>                           | 5           | \$ 497,270           | \$ 140.87                 | 12.54%                      |
| <i>Division 05 - Metals</i>                            | 6           | \$ 156,400           | \$ 44.31                  | 3.94%                       |
| <i>Division 06 - Wood &amp; Plastics</i>               | 7           | \$ 1,750             | \$ 0.50                   | 0.04%                       |
| <i>Division 07 - Thermal &amp; Moisture Protection</i> | 8           | \$ 95,375            | \$ 27.02                  | 2.40%                       |
| <i>Division 08 - Doors &amp; Windows</i>               | 9           | \$ 10,530            | \$ 2.98                   | 0.27%                       |
| <i>Division 09 - Finishes</i>                          | 10          | \$ 48,432            | \$ 13.72                  | 1.22%                       |
| <i>Division 10 - Specialties</i>                       | 11          | \$ 35,240            | \$ 9.98                   | 0.89%                       |
| <i>Division 11 - Equipment</i>                         | 12          | \$ -                 | \$ -                      | 0.00%                       |
| <i>Division 12 - Furnishings</i>                       | 13          | \$ -                 | \$ -                      | 0.00%                       |
| <i>Division 13 - Special Construction</i>              | 14          | \$ -                 | \$ -                      | 0.00%                       |
| <i>Division 14 - Conveying Systems</i>                 | 15          | \$ -                 | \$ -                      | 0.00%                       |
| <i>Division 15 - Mechanical &amp; Plumbing</i>         | 16          | \$ 1,229,000         | \$ 348.16                 | 30.98%                      |
| <i>Division 16 - Electrical</i>                        | 17          | \$ 149,400           | \$ 42.32                  | 3.77%                       |

|                                |               |                     |                    |                |
|--------------------------------|---------------|---------------------|--------------------|----------------|
| <b>Subtotal</b>                |               | <b>\$ 3,139,424</b> | <b>\$ 889.36</b>   | <b>79.14%</b>  |
| <b>Contingency</b>             | <i>10.00%</i> | <b>\$ 313,942</b>   | <b>\$ 88.94</b>    | <b>7.91%</b>   |
|                                |               | <b>\$ 3,453,366</b> | <b>\$ 978.29</b>   | <b>87.06%</b>  |
| <b>Building Permit</b>         | <i>0.55%</i>  | <b>\$ 18,994</b>    | <b>\$ 5.38</b>     | <b>0.48%</b>   |
|                                |               | <b>\$ 3,472,360</b> | <b>\$ 983.67</b>   | <b>87.54%</b>  |
| <b>Builders Risk Insurance</b> | <i>0.50%</i>  | <b>\$ 17,267</b>    | <b>\$ 4.89</b>     | <b>0.44%</b>   |
|                                |               | <b>\$ 3,489,626</b> | <b>\$ 988.56</b>   | <b>87.97%</b>  |
| <b>Bond</b>                    | <i>0.60%</i>  | <b>\$ 20,720</b>    | <b>\$ 5.87</b>     | <b>0.52%</b>   |
|                                |               | <b>\$ 3,510,347</b> | <b>\$ 994.43</b>   | <b>88.50%</b>  |
| <b>Design / Build Fee</b>      | <i>13.00%</i> | <b>\$ 456,345</b>   | <b>\$ 129.28</b>   | <b>11.50%</b>  |
|                                |               | <b>\$ 3,966,692</b> | <b>\$ 1,123.71</b> | <b>100.00%</b> |
| <b>GRAND TOTAL</b>             |               | <b>\$ 3,966,692</b> | <b>\$ 1,123.71</b> | <b>100.00%</b> |

**BROADMOOR**  
DESIGN GROUP

BROADMOOR DESIGN GROUP | DEAN M. DUPLANTIER, ARCHITECT  
A PROFESSIONAL ARCHITECTURAL CORPORATION

Blitchknevel  
ARCHITECTS



Area C Central Plant

3-May-06

Division 01 - General Requirements

Building GSF

3,530

| Cost Code                   | Item Description            | Quantity | Unit | Cost/Unit    | Item Cost         | Cost/GSF         |
|-----------------------------|-----------------------------|----------|------|--------------|-------------------|------------------|
|                             | Project Manager             | 12       | Mo   | \$ 8,500.00  | \$ 102,000        | \$ 28.90         |
|                             | Asst. Project Manager 1 ea. | 10       | Mo   | \$ 4,300.00  | \$ 43,000         | \$ 12.18         |
|                             | Superintendent              | 12       | Mo   | \$ 6,500.00  | \$ 78,000         | \$ 22.10         |
|                             |                             |          |      |              |                   |                  |
|                             |                             |          |      |              |                   |                  |
|                             | Q. C. Inspector 1 ea.       | 10       | Mo   | \$ 8,500.00  | \$ 85,000         | \$ 24.08         |
|                             |                             |          |      |              |                   |                  |
|                             | Safety Officer              | 10       | Mo   | \$ 4,500.00  | \$ 45,000         | \$ 12.75         |
|                             |                             |          |      |              |                   |                  |
|                             | Watchman                    | 10       | Mo   | \$ 1,000.00  | \$ 10,000         | \$ 2.83          |
|                             |                             |          |      |              |                   |                  |
|                             | Auto Allowances             | 44       | Mo   | \$ 650.00    | \$ 28,600         | \$ 8.10          |
|                             | Office Overhead             |          |      |              | \$ -              | \$ -             |
|                             | Mobilization & Demob.       | 1        | ls   | \$ 60,000.00 | \$ 60,000         | \$ 17.00         |
|                             |                             |          |      |              |                   |                  |
|                             | Jobsite Office(s)           | 10       | Mo   | \$ 1,700.00  | \$ 17,000         | \$ 4.82          |
|                             | Tool Shack                  | 10       | Mo   | \$ 600.00    | \$ 6,000          | \$ 1.70          |
|                             | Jobsite Electricity         | 10       | Mo   | \$ 6,000.00  | \$ 60,000         | \$ 17.00         |
|                             | Jobsite Telephone           | 10       | Mo   | \$ 1,300.00  | \$ 13,000         | \$ 3.68          |
|                             | Jobsite Water & Ice         | 10       | Mo   | \$ 750.00    | \$ 7,500          | \$ 2.12          |
|                             | Jobsite Toilet              | 10       | Mo   | \$ 400.00    | \$ 4,000          | \$ 1.13          |
|                             | Jobsite Postage             | 10       | Mo   | \$ 450.00    | \$ 4,500          | \$ 1.27          |
|                             | Jobsite Radios              | 10       | Mo   | \$ 750.00    | \$ 7,500          | \$ 2.12          |
|                             | Office Equipment            | 10       | Mo   | \$ 3,500.00  | \$ 35,000         | \$ 9.92          |
|                             | Office Supplies             | 10       | Mo   | \$ 400.00    | \$ 4,000          | \$ 1.13          |
|                             | Plans & Printing            | 1        | ls   | \$ 20,000.00 | \$ 20,000         | \$ 5.67          |
|                             | Coordination Drawings       | 1        | ls   | \$ 10,000.00 | \$ 10,000         | \$ 2.83          |
|                             | Progress Photos             | 10       | Mo   | \$ 200.00    | \$ 2,000          | \$ 0.57          |
|                             | Project Sign                | 1        | ls   | \$ 3,000.00  | \$ 3,000          | \$ 0.85          |
|                             | CPM Schedule                | 1        | ls   | \$ 10,000.00 | \$ 10,000         | \$ 2.83          |
|                             | Access Roadways             | 1        | ls   | \$ 40,000.00 | \$ 40,000         | \$ 11.33         |
|                             | Temp Yard                   | 1        | ls   | \$ 20,000.00 | \$ 20,000         | \$ 5.67          |
|                             | As-Built Drawings           | 1        | ls   | \$ 10,000.00 | \$ 10,000         | \$ 2.83          |
|                             | O & M Manuals               | 1        | ls   | \$ 5,000.00  | \$ 5,000          | \$ 1.42          |
|                             |                             |          |      |              |                   |                  |
|                             | Jobsite Equipment ( Rent)   | 10       | Mo   | \$ 1,800.00  | \$ 18,000         | \$ 5.10          |
|                             |                             |          |      |              |                   |                  |
|                             | Equipment Fuel, Etc.        | 10       | Mo   | \$ 500.00    | \$ 5,000          | \$ 1.42          |
|                             | Building Power Usage        | 10       | Mo   | \$ 2,500.00  | \$ 25,000         | \$ 7.08          |
|                             | Building Temp Water         | 10       | Mo   | \$ 700.00    | \$ 7,000          | \$ 1.98          |
|                             | Property Protection         | 1        | ls   | \$ 15,000.00 | \$ 15,000         | \$ 4.25          |
|                             | Safety Requirements         | 10       | Mo   | \$ 6,000.00  | \$ 60,000         | \$ 17.00         |
|                             | Signs & Barricades          | 1        | ls   | \$ 10,000.00 | \$ 10,000         | \$ 2.83          |
|                             | Fence/Temp Part.            | 1        | ls   | \$ 12,000.00 | \$ 12,000         | \$ 3.40          |
|                             | Temp. Handrails             | 10       | Mo   | \$ 4,000.00  | \$ 40,000         | \$ 11.33         |
|                             | Clean-Up                    | 10       | Mo   | \$ 2,500.00  | \$ 25,000         | \$ 7.08          |
|                             | Final Clean-Up              | 1        | ls   | \$ 25,000.00 | \$ 25,000         | \$ 7.08          |
|                             | Trash Dumpster              | 10       | Mo   | \$ 1,500.00  | \$ 15,000         | \$ 4.25          |
|                             | Miscl Hauling & Fees        | 10       | Mo   | \$ 6,000.00  | \$ 60,000         | \$ 17.00         |
|                             | Trash Chute                 |          |      |              | \$ -              | \$ -             |
|                             | Dewatering                  | 9        | Mo   | \$ 3,000.00  | \$ 27,000         | \$ 7.65          |
|                             | Hardware Store              | 1        | ls   | \$ 15,000.00 | \$ 15,000         | \$ 4.25          |
|                             | Testing Lab by owner        |          |      |              | \$ -              | \$ -             |
|                             |                             |          |      |              |                   |                  |
|                             |                             |          |      |              |                   |                  |
|                             |                             |          |      |              |                   |                  |
|                             | Traffic Control             | 10       | Mo   | \$ 3,000.00  | \$ 30,000         | \$ 8.50          |
|                             |                             |          |      |              |                   |                  |
|                             | Association Dues            | 1        | ls   | \$ 2,000.00  | \$ 2,000          | \$ 0.57          |
|                             |                             |          |      |              |                   |                  |
|                             |                             |          |      |              |                   |                  |
|                             | Subtotal                    |          |      |              | \$ 1,121,100      |                  |
|                             |                             |          |      |              |                   |                  |
| <b>General Requirements</b> | <b>43% of Total</b>         |          |      |              | <b>\$ 482,073</b> | <b>\$ 136.56</b> |

Area C Central Plant

3-May-06

*Division 02 - Sitework*

Building GSF

3,530

| Cost Code | Item Description  | Quantity | Unit | Cost/Unit    | Item Cost | Cost/GSF |
|-----------|-------------------|----------|------|--------------|-----------|----------|
|           |                   |          |      |              | \$ -      | \$ -     |
|           |                   |          |      |              | \$ -      | \$ -     |
|           | Test Pile Program | 1        | ls   | \$ 30,000.00 | \$ 30,000 | \$ 8.50  |
|           | Piling            | 5,911    | sf   | \$ 7.00      | \$ 41,377 | \$ 11.72 |
|           |                   |          |      |              | \$ -      | \$ -     |
|           |                   |          |      |              | \$ -      | \$ -     |
|           |                   |          |      |              |           |          |
|           |                   |          |      |              |           |          |
|           | Curbs             | 150      | lf   | \$ 9.00      | \$ 1,350  |          |
|           |                   |          |      |              |           |          |
|           |                   |          |      |              |           |          |
|           |                   |          |      |              |           |          |
|           |                   |          |      |              |           |          |
|           | Bollards w/Cables | 6        | lf   | \$ 80.00     | \$ 480    | \$ 0.14  |
|           |                   |          |      |              | \$ -      | \$ -     |
|           |                   |          |      |              |           |          |
|           |                   |          |      |              | \$ -      | \$ -     |
|           | Termite Control   | 5,911    | sf   | \$ 0.15      | \$ 887    | \$ 0.25  |
|           |                   |          |      |              | \$ -      | \$ -     |
|           |                   |          |      |              |           |          |
|           | Sanitary Sewer    | 300      | lf   | \$ 150.00    | \$ 45,000 | \$ 12.75 |
|           |                   |          |      |              |           |          |
|           |                   |          |      |              | \$ -      | \$ -     |
|           |                   |          |      |              | \$ -      | \$ -     |
|           |                   |          |      |              | \$ -      | \$ -     |
|           |                   |          |      |              | \$ -      | \$ -     |
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|                               |  |  |  |                       |            |          |
|-------------------------------|--|--|--|-----------------------|------------|----------|
| <i>Division 02 - Sitework</i> |  |  |  | <i>Subtotal Costs</i> | \$ 119,094 | \$ 33.74 |
|-------------------------------|--|--|--|-----------------------|------------|----------|





Area C Central Plant

3-May-06

Division 05 - Metals

Building GSF

3,530

| Cost Code | Item Description         | Quantity | Unit | Cost/Unit    | Item Cost | Cost/GSF |
|-----------|--------------------------|----------|------|--------------|-----------|----------|
|           | Metal Stairs             | 42       | rs   | \$ 800.00    | \$ 33,600 | \$ 9.52  |
|           |                          |          |      |              | \$ -      | \$ -     |
|           |                          |          |      |              | \$ -      | \$ -     |
|           | Structural Roof Framing  | 3600     | sf   | \$ 20.00     | \$ 72,000 | \$ 20.40 |
|           |                          |          |      |              | \$ -      | \$ -     |
|           |                          |          |      |              | \$ -      | \$ -     |
|           |                          |          |      |              | \$ -      | \$ -     |
|           |                          |          |      |              | \$ -      | \$ -     |
|           |                          |          |      |              | \$ -      | \$ -     |
|           |                          |          |      |              | \$ -      | \$ -     |
|           |                          |          |      |              | \$ -      | \$ -     |
|           | Misc. Steel              | 1        | ls   | \$ 50,000.00 | \$ 50,000 | \$ 14.16 |
|           |                          |          |      |              | \$ -      | \$ -     |
|           |                          |          |      |              | \$ -      | \$ -     |
|           | Decorative Window Grates | 2        | ea   | \$ 400.00    | \$ 800    | \$ 0.23  |
|           |                          |          |      |              | \$ -      | \$ -     |
|           |                          |          |      |              | \$ -      | \$ -     |
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|-----------------------------|-----------------------|------------|----------|
| <i>Division 05 - Metals</i> | <i>Subtotal Costs</i> | \$ 156,400 | \$ 44.31 |
|-----------------------------|-----------------------|------------|----------|

Area C Central Plant

3-May-06

Division 06 - Wood & Plastics

Building GSF

3,530

| Cost Code | Item Description     | Quantity | Unit | Cost/Unit | Item Cost | Cost/GSF |
|-----------|----------------------|----------|------|-----------|-----------|----------|
|           | Blocking and Nailers | 3,000    | sf   | \$ 0.50   | \$ 1,500  | \$ 0.42  |
|           | Telephone Backboard  | 1        | ea   | \$ 250.00 | \$ 250    | \$ 0.07  |
|           |                      |          |      |           | \$ -      | \$ -     |
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|  |                       |                 |                |
|--|-----------------------|-----------------|----------------|
| <b>Division 06 - Wood &amp; Plastics</b> | <b>Subtotal Costs</b> | <b>\$ 1,750</b> | <b>\$ 0.50</b> |
|--|-----------------------|-----------------|----------------|



Area C Central Plant

3-May-06

Division 08 - Doors & Windows

Building GSF

3,530

| Cost Code | Item Description | Quantity | Unit | Cost/Unit | Item Cost | Cost/GSF |
|-----------|------------------|----------|------|-----------|-----------|----------|
|           | Doors & Frames   | 9        | lv   | \$ 500.00 | \$ 4,500  | \$ 1.27  |
|           | Finish Hardware  | 9        | ea   | \$ 350.00 | \$ 3,150  | \$ 0.89  |
|           |                  |          |      |           | \$ -      | \$ -     |
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|           |                  |          |      |           | \$ -      | \$ -     |
|           | Windows          | 32       | sf   | \$ 90.00  | \$ 2,880  | \$ 0.82  |
|           |                  |          |      |           | \$ -      | \$ -     |
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|  |  |  |  |                       |           |         |
|--|--|--|--|-----------------------|-----------|---------|
| <b>Division 08 - Doors &amp; Windows</b> |  |  |  | <b>Subtotal Costs</b> | \$ 10,530 | \$ 2.98 |
|--|--|--|--|-----------------------|-----------|---------|

Area C Central Plant

3-May-06

Division 9 - Finishes

Building GSF

3,530

| Cost Code | Item Description             | Quantity | Unit | Cost/Unit | Item Cost | Cost/GSF |
|-----------|------------------------------|----------|------|-----------|-----------|----------|
|           | Insul. & Acoustical Ceilings | 500      | sf   | \$ 15.50  | \$ 7,750  | \$ 2.20  |
|           | <b>Flooring:</b>             |          |      |           | \$ -      | \$ -     |
|           | VCT                          | 208      | sf   | \$ 1.50   | \$ 312    | \$ 0.09  |
|           | Sealed concrete              | 9,400    | sf   | \$ 0.50   | \$ 4,700  | \$ 1.33  |
|           | <b>Base:</b>                 |          |      |           | \$ -      | \$ -     |
|           | Vinyl                        | 60       | lf   | \$ 1.50   | \$ 90     |          |
|           | <b>Walls:</b>                |          |      |           | \$ -      | \$ -     |
|           | Painted                      | 12,000   | sf   | \$ 2.25   | \$ 27,000 | \$ 7.65  |
|           | Paint Doors and Frames       | 9        | ea   | \$ 150.00 | \$ 1,350  | \$ 0.38  |
|           | Paint Exposed Structure      | 3,000    | sf   | \$ 1.85   | \$ 5,550  | \$ 1.57  |
|           | Vinyl Stair Treads & Risers  | 42       | ea   | \$ 40.00  | \$ 1,680  | \$ 0.48  |

|                              |  |  |  |                       |                  |                 |
|------------------------------|--|--|--|-----------------------|------------------|-----------------|
| <b>Division 9 - Finishes</b> |  |  |  | <b>Subtotal Costs</b> | <b>\$ 48,432</b> | <b>\$ 13.72</b> |
|------------------------------|--|--|--|-----------------------|------------------|-----------------|











Area C Central Plant

3-May-06

Division 15 - Mechanical & Plumbing

Building GSF

3,530

| Cost Code | Item Description                          | Quantity | Unit  | Cost/Unit    | Item Cost    | Cost/GSF  |
|-----------|---|----------|-------|--------------|--------------|-----------|
|           | Fire Protection                           | 3,600    | sf    | \$ 2.50      | \$ 9,000     | \$ 2.55   |
|           | Fire Main                                 | 1        | allow | \$ 50,000.00 | \$ 50,000    | \$ 14.16  |
|           |   |          |       |              | \$ -         | \$ -      |
|           | Plumbing & HVAC                           | 500      | sf    | \$ 26.00     | \$ 13,000    | \$ 3.68   |
|           |   |          |       |              |              |           |
|           | 141st RC                                  | 1        | ls    |              | \$ 1,125,000 | \$ 318.70 |
| 1A        | Redundancy (Refer to Alternate)           |          |       |              |              | \$ -      |
| 1B        | 61st RC (Refer to Alternate)              |          |       |              |              | \$ -      |
| 1B        | Dining Facility (Refer to Alternate)      |          |       |              |              | \$ -      |
|           |   |          |       |              | \$ -         | \$ -      |
|           | 141st Piping                              | 200      | lf    | \$ 160.00    | \$ 32,000    | \$ 9.07   |
| 1B        | 61st Piping (Refer to Alternate)          |          |       |              | \$ -         | \$ -      |
| 1B        | Dining Piping (Refer to Alternate)        |          |       |              | \$ -         | \$ -      |
| 1B        | Extension for Future (Refer to Alternate) |          |       |              | \$ -         | \$ -      |
|           |   |          |       |              | \$ -         | \$ -      |
|           |   |          |       |              | \$ -         | \$ -      |
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|--|--|--|--|-----------------------|---------------------|------------------|
| <b>Division 15 - Mechanical &amp; Plumbing</b> |  |  |  | <b>Subtotal Costs</b> | <b>\$ 1,229,000</b> | <b>\$ 348.16</b> |
|--|--|--|--|-----------------------|---------------------|------------------|



## **F. OMS #12 Refurbishing**



# OMS#12 Refurbishing

## Alternate 3

3-May-06

| <i>Divisional Description</i>                          | <i>Page</i> | <i>Subtotal Cost</i> | <i>9,663<br/>Cost/GSF</i> | <i>Percent<br/>of Total</i> |
|--|-------------|----------------------|---------------------------|-----------------------------|
| <i>Division 01 - General Requirements</i>              | 2           | \$ 508,002           | \$ 52.57                  | 16.26%                      |
| <i>Division 02 - Sitework</i>                          | 3           | \$ 242,500           | \$ 25.10                  | 7.76%                       |
| <i>Division 03 - Concrete</i>                          | 4           | \$ 5,000             | \$ 0.52                   | 0.16%                       |
| <i>Division 04 - Masonry</i>                           | 5           | \$ 34,240            | \$ 3.54                   | 1.10%                       |
| <i>Division 05 - Metals</i>                            | 6           | \$ 4,650             | \$ 0.48                   | 0.15%                       |
| <i>Division 06 - Wood &amp; Plastics</i>               | 7           | \$ 10,880            | \$ 1.13                   | 0.35%                       |
| <i>Division 07 - Thermal &amp; Moisture Protection</i> | 8           | \$ 287,740           | \$ 29.78                  | 9.21%                       |
| <i>Division 08 - Doors &amp; Windows</i>               | 9           | \$ 106,250           | \$ 11.00                  | 3.40%                       |
| <i>Division 09 - Finishes</i>                          | 10          | \$ 200,333           | \$ 20.73                  | 6.41%                       |
| <i>Division 10 - Specialties</i>                       | 11          | \$ 56,460            | \$ 5.84                   | 1.81%                       |
| <i>Division 11 - Equipment</i>                         | 12          | \$ -                 | \$ -                      | 0.00%                       |
| <i>Division 12 - Furnishings</i>                       | 13          | \$ -                 | \$ -                      | 0.00%                       |
| <i>Division 13 - Special Construction</i>              | 14          | \$ -                 | \$ -                      | 0.00%                       |
| <i>Division 14 - Conveying Systems</i>                 | 15          | \$ -                 | \$ -                      | 0.00%                       |
| <i>Division 15 - Mechanical &amp; Plumbing</i>         | 16          | \$ 692,520           | \$ 71.67                  | 22.17%                      |
| <i>Division 16 - Electrical</i>                        | 17          | \$ 323,700           | \$ 33.50                  | 10.36%                      |

|                                |               |                     |                  |                |
|--------------------------------|---------------|---------------------|------------------|----------------|
| <b>Subtotal</b>                |               | <b>\$ 2,472,275</b> | <b>\$ 255.85</b> | <b>79.14%</b>  |
| <b>Contingency</b>             | <i>10.00%</i> | <b>\$ 247,228</b>   | <b>\$ 25.58</b>  | <b>7.91%</b>   |
|                                |               | <b>\$ 2,719,503</b> | <b>\$ 281.43</b> | <b>87.06%</b>  |
| <b>Building Permit</b>         | <i>0.55%</i>  | <b>\$ 14,957</b>    | <b>\$ 1.55</b>   | <b>0.48%</b>   |
|                                |               | <b>\$ 2,734,460</b> | <b>\$ 282.98</b> | <b>87.54%</b>  |
| <b>Builders Risk Insurance</b> | <i>0.50%</i>  | <b>\$ 13,598</b>    | <b>\$ 1.41</b>   | <b>0.44%</b>   |
|                                |               | <b>\$ 2,748,057</b> | <b>\$ 284.39</b> | <b>87.97%</b>  |
| <b>Bond</b>                    | <i>0.60%</i>  | <b>\$ 16,317</b>    | <b>\$ 1.69</b>   | <b>0.52%</b>   |
|                                |               | <b>\$ 2,764,374</b> | <b>\$ 286.08</b> | <b>88.50%</b>  |
| <b>Design / Build Fee</b>      | <i>13.00%</i> | <b>\$ 359,369</b>   | <b>\$ 37.19</b>  | <b>11.50%</b>  |
|                                |               | <b>\$ 3,123,743</b> | <b>\$ 323.27</b> | <b>100.00%</b> |

**BROADMOOR**  
DESIGN GROUP

BROADMOOR DESIGN GROUP | DEAN M. DUPLANTIER, ARCHITECT  
A PROFESSIONAL ARCHITECTURAL CORPORATION

**Blitch** **nevel**  
ARCHITECTS



OMS#12 Refurbishing

3-May-06

Division 01 - General Requirements

Building GSF

9,663

| Cost Code                   | Item Description         | Quantity | Unit | Cost/Unit    | Item Cost         | Cost/GSF        |
|-----------------------------|--------------------------|----------|------|--------------|-------------------|-----------------|
|                             | Preconstruction Services | 1        | ls   | \$ 75,000.00 | \$ 75,000         | \$ 7.76         |
|                             | Project Manager          | 12       | Mo   | \$ 8,500.00  | \$ 102,000        | \$ 10.56        |
|                             | Superintendent           | 12       | Mo   | \$ 6,500.00  | \$ 78,000         | \$ 8.07         |
|                             | Q. C. Inspector          | 12       | Mo   | \$ 8,500.00  | \$ 102,000        | \$ 10.56        |
|                             | Watchman                 | 12       | Mo   | \$ 800.00    | \$ 9,600          | \$ 0.99         |
|                             | Auto Allowances          | 36       | Mo   | \$ 650.00    | \$ 23,400         | \$ 2.42         |
|                             | Office Overhead          |          |      |              | \$ -              | \$ -            |
|                             | Mobilization & Demob.    | 1        | ls   | \$ 60,000.00 | \$ 60,000         | \$ 6.21         |
|                             | Jobsite Office(s)        | 12       | Mo   | \$ 1,700.00  | \$ 20,400         | \$ 2.11         |
|                             | Tool Shack               | 12       | Mo   | \$ 600.00    | \$ 7,200          | \$ 0.75         |
|                             | Jobsite Electricity      | 12       | Mo   | \$ 6,000.00  | \$ 72,000         | \$ 7.45         |
|                             | Jobsite Telephone        | 12       | Mo   | \$ 1,300.00  | \$ 15,600         | \$ 1.61         |
|                             | Jobsite Water & Ice      | 12       | Mo   | \$ 750.00    | \$ 9,000          | \$ 0.93         |
|                             | Jobsite Toilet           | 12       | Mo   | \$ 400.00    | \$ 4,800          | \$ 0.50         |
|                             | Jobsite Postage          | 12       | Mo   | \$ 450.00    | \$ 5,400          | \$ 0.56         |
|                             | Jobsite Radios           | 12       | Mo   | \$ 750.00    | \$ 9,000          | \$ 0.93         |
|                             | Office Equipment         | 12       | Mo   | \$ 3,500.00  | \$ 42,000         | \$ 4.35         |
|                             | Office Supplies          | 12       | Mo   | \$ 400.00    | \$ 4,800          | \$ 0.50         |
|                             | Plans & Printing         | 1        | ls   | \$ 20,000.00 | \$ 20,000         | \$ 2.07         |
|                             | Coordination Drawings    | 1        | ls   | \$ 10,000.00 | \$ 10,000         | \$ 1.03         |
|                             | Progress Photos          | 12       | Mo   | \$ 200.00    | \$ 2,400          | \$ 0.25         |
|                             | Project Sign             | 1        | ls   | \$ 3,000.00  | \$ 3,000          | \$ 0.31         |
|                             | CPM Schedule             | 1        | ls   | \$ 10,000.00 | \$ 10,000         | \$ 1.03         |
|                             | As-Built Drawings        | 1        | ls   | \$ 10,000.00 | \$ 10,000         | \$ 1.03         |
|                             | O & M Manuals            | 1        | ls   | \$ 5,000.00  | \$ 5,000          | \$ 0.52         |
|                             | Jobsite Equipment (Rent) | 12       | Mo   | \$ 1,800.00  | \$ 21,600         | \$ 2.24         |
|                             | Equipment Fuel, Etc.     | 12       | Mo   | \$ 500.00    | \$ 6,000          | \$ 0.62         |
|                             | Building Power Usage     | 12       | Mo   | \$ 2,500.00  | \$ 30,000         | \$ 3.10         |
|                             | Building Temp Water      | 12       | Mo   | \$ 400.00    | \$ 4,800          | \$ 0.50         |
|                             | Property Protection      | 1        | ls   | \$ 15,000.00 | \$ 15,000         | \$ 1.55         |
|                             | Safety Requirements      | 12       | Mo   | \$ 6,000.00  | \$ 72,000         | \$ 7.45         |
|                             | Signs & Barricades       | 1        | ls   | \$ 10,000.00 | \$ 10,000         | \$ 1.03         |
|                             | Fence/Temp Part.         | 1        | ls   | \$ 12,000.00 | \$ 12,000         | \$ 1.24         |
|                             | Clean-Up                 | 12       | Mo   | \$ 2,500.00  | \$ 30,000         | \$ 3.10         |
|                             | Final Clean-Up           | 1        | ls   | \$ 25,000.00 | \$ 25,000         | \$ 2.59         |
|                             | Trash Dumpster           | 12       | Mo   | \$ 7,500.00  | \$ 90,000         | \$ 9.31         |
|                             | Miscl Hauling & Fees     | 12       | Mo   | \$ 6,000.00  | \$ 72,000         | \$ 7.45         |
|                             | Dewatering               | 2        | Mo   | \$ 3,000.00  | \$ 6,000          | \$ 0.62         |
|                             | Hardware Store           | 1        | ls   | \$ 15,000.00 | \$ 15,000         | \$ 1.55         |
|                             | Testing Lab              | 2        | Mo   | \$ 3,200.00  | \$ 6,400          | \$ 0.66         |
|                             | Traffic Control          | 20       | Mo   | \$ 3,000.00  | \$ 60,000         | \$ 6.21         |
|                             | Association Dues         | 1        | ls   | \$ 5,000.00  | \$ 5,000          | \$ 0.52         |
|                             | Subtotal                 |          |      |              | \$ 1,181,400      |                 |
| <b>General Requirements</b> |                          |          |      |              | <b>\$ 508,002</b> | <b>\$ 52.57</b> |



OMS#12 Refurbishing

3-May-06

Division 03 - Concrete

Building GSF

9,663

| Cost Code | Item Description              | Quantity | Unit | Cost/Unit   | Item Cost | Cost/GSF |
|-----------|-------------------------------|----------|------|-------------|-----------|----------|
|           |                               |          |      |             | \$ -      | \$ -     |
|           |                               |          |      |             |           |          |
|           |                               |          |      |             |           |          |
|           |                               |          |      |             | \$ -      | \$ -     |
|           | Miscellaneous Concrete Repair | 1        | ls   | \$ 5,000.00 | \$ 5,000  | \$ 0.52  |
|           |                               |          |      |             | \$ -      | \$ -     |
|           |                               |          |      |             | \$ -      | \$ -     |
|           |                               |          |      |             | \$ -      | \$ -     |
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|                               |  |  |  |                       |                 |                |
|-------------------------------|--|--|--|-----------------------|-----------------|----------------|
| <b>Division 03 - Concrete</b> |  |  |  | <b>Subtotal Costs</b> | <b>\$ 5,000</b> | <b>\$ 0.52</b> |
|-------------------------------|--|--|--|-----------------------|-----------------|----------------|





OMS#12 Refurbishing

3-May-06

Division 06 - Wood & Plastics

Building GSF

9,663

| Cost Code | Item Description       | Quantity | Unit | Cost/Unit   | Item Cost | Cost/GSF |
|-----------|------------------------|----------|------|-------------|-----------|----------|
|           | Blocking and Nailers   | 8,560    | sf   | \$ 0.50     | \$ 4,280  | \$ 0.44  |
|           | Architectural Woodwork | 1        | ls   | \$ 6,000.00 | \$ 6,000  | \$ 0.62  |
|           | Telephone Boards       | 2        | ea   | \$ 300.00   | \$ 600    | \$ 0.06  |
|           |                        |          |      |             | \$ -      | \$ -     |
|           |                        |          |      |             | \$ -      | \$ -     |
|           |                        |          |      |             | \$ -      | \$ -     |
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|--|--|--|--|-----------------------|-----------|---------|
| <i>Division 06 - Wood &amp; Plastics</i> |  |  |  | <i>Subtotal Costs</i> | \$ 10,880 | \$ 1.13 |
|--|--|--|--|-----------------------|-----------|---------|





OMS#12 Refurbishing

3-May-06

**Division 9 - Finishes**

Building GSF

9,663

| Cost Code | Item Description                             | Quantity | Unit | Cost/Unit | Item Cost | Cost/GSF |
|-----------|--|----------|------|-----------|-----------|----------|
|           | Studs, Drywall, Insul. & Acoustical Ceilings | 4,000    | sf   | \$ 15.50  | \$ 62,000 | \$ 6.42  |
|           | Plaster Soffits                              |          | sf   | \$ 15.00  | \$ -      | \$ -     |
|           | <b>Flooring:</b>                             |          |      |           | \$ -      | \$ -     |
|           | Porcelain Tile                               | 1,300    | sf   | \$ 12.00  | \$ 15,600 | \$ 1.61  |
|           | VCT  | 3,500    | sf   | \$ 1.50   | \$ 5,250  | \$ 0.54  |
|           | Painted Concrete                             | 5,280    | sf   | \$ 2.50   | \$ 13,200 | \$ 1.37  |
|           | <b>Base:</b>                                 |          |      |           | \$ -      | \$ -     |
|           | Rubber                                       | 900      | lf   | \$ 1.50   | \$ 1,350  |          |
|           | <b>Walls:</b>                                |          |      |           | \$ -      | \$ -     |
|           | Painted                                      | 18,000   | sf   | \$ 2.25   | \$ 40,500 | \$ 4.19  |
|           | Textured                                     | 8100     | sf   | \$ 5.00   | \$ 40,500 | \$ 4.19  |
|           | Tape   | 8,100    | sf   | \$ 0.65   | \$ 5,265  | \$ 0.54  |
|           | Paint Gypboard Ceilings                      | 1,400    | sf   | \$ 2.25   | \$ 3,150  | \$ 0.33  |
|           | Paint Doors and Frames                       | 25       | ea   | \$ 150.00 | \$ 3,750  | \$ 0.39  |
|           | Paint Exposed Structure                      | 5,280    | sf   | \$ 1.85   | \$ 9,768  | \$ 1.01  |
|           |  |          |      |           | \$ -      | \$ -     |
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|------------------------------|--|--|--|-----------------------|-------------------|-----------------|
| <b>Division 9 - Finishes</b> |  |  |  | <b>Subtotal Costs</b> | <b>\$ 200,333</b> | <b>\$ 20.73</b> |
|------------------------------|--|--|--|-----------------------|-------------------|-----------------|











OMS#12 Refurbishing

3-May-06

Division 15 - Mechanical & Plumbing

Building GSF

9,663

| Cost Code | Item Description | Quantity | Unit  | Cost/Unit    | Item Cost  | Cost/GSF |
|-----------|------------------|----------|-------|--------------|------------|----------|
|           | Fire Protection  | 10,000   | sf    | \$ 2.50      | \$ 25,000  | \$ 2.59  |
|           | Fire Main        | 1        | allow | \$ 50,000.00 | \$ 50,000  | \$ 5.17  |
|           |                  |          |       |              | \$ -       | \$ -     |
|           |                  |          |       |              | \$ -       | \$ -     |
|           | Plumbing & HVAC  | 9,960    | sf    | \$ 62.00     | \$ 617,520 | \$ 63.91 |
|           |                  |          |       | \$ -         | \$ -       | \$ -     |
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|  |  |  |  |                       |                   |                 |
|--|--|--|--|-----------------------|-------------------|-----------------|
| <b>Division 15 - Mechanical &amp; Plumbing</b> |  |  |  | <b>Subtotal Costs</b> | <b>\$ 692,520</b> | <b>\$ 71.67</b> |
|--|--|--|--|-----------------------|-------------------|-----------------|

