

**UNIT COSTS for The ARMY FACILITIES - MILITARY CONSTRUCTION PROGRAM  
PAX NEWSLETTER 3.2.2, Dated 11 Feb 2008**

**APPENDIX - A, PART - I & II ( Buildings and Support Facilities)**

This updated newsletter supersedes the PAX Newsletter No. 3.2.2, **15 May 2007**, and updates the Appendix A, Facility Unit Cost Table, Appendix C, Tri-Service Military Construction Program (MCP) Index, and Table 1, Size Adjustment Factors, contained in TM 5-800-4, Programming Cost Estimates for Military Construction, dated May 1994. It may be used as a guide for preparation and/or review of the Army military construction cost estimates for programming and budgeting purposes for FY **2010/2011** and beyond unless otherwise noted. This newsletter is also published and maintained on the web page at [http://www.hq.usace.army.mil/cemp/e/ec/ec\\_new.htm](http://www.hq.usace.army.mil/cemp/e/ec/ec_new.htm)

**1. APPENDIX A - FACILITY UNIT COST TABLE (FOR FY10 and later MILCON, BRAC, GTF (Grow The Force) Projects)**

a. Most unit costs are based on historic construction award data from FY2005 to 2007 projects, with a few exceptions. If we did not have at least three recently (during FY 2005-07) awarded projects for a facility-type, we sought out FY 2004 awards. All bid data were normalized for 3 (instead of 7 bidder traditionally used) bidders reflecting in the current bidding climate, incorporated actual construction inflation rate (from Engineering News Record Building Cost Index) thru 30 Sep 2007, and escalated from 1 Oct 2007 to the assumed mid-point of construction of October 2010 using the recent OSD escalation rates, in Appendix -C. The unit cost database include only new construction projects, and does not include data from renovation or addition/alteration projects. The unit cost and the reference building size for the same facility type are identical in both the PAX Newsletter and DoD Pricing Guide, UFC 3-701-08, unless the Army facility-type is modified under Military Transformation.

b. The tabulation is arranged numerically by category codes. Category code series descriptions are contained in DA Pamphlet 415-28, Guide to Army Real Property Category Codes, dated 11 Apr 2006. The five (5) digit category code is designated by adding XX behind the three (3) digit main category code for this group where unit costs span a group of subcategories or cat code is still not officially established. For example, 851XX and 852XX are designated for roads, streets, parking, apron and sidewalks pavements.

c. Escalation - Unit costs are escalated to 1 October **2010**, the assumed midpoint of construction for **FY10** projects, with an area cost factor (ACF) of 1.00. The MCP inflation indices shown in **Appendix C** should be used to escalate the **FY10** unit costs beyond **1 Oct 10**. These unit costs include installed (built-in) building equipment and furnishings normally funded by the MILCON funds as described in AR 420-1 (Army Facilities Management Regulation), contractor's markup cost for overhead & profit, but do not include allowances for construction contingencies and supervision, inspection, and overhead (SIOH), or construction cost growth resulting from user changes, unforeseen site conditions, or contract document errors and omissions. Unit costs for DoD medical facilities include category A and B equipment, but do not include category E and F equipment costs.

d. The unit costs for Primary Facilities (buildings) in Appendix A, Part I, are for the primary facilities gross areas only, and do not include costs for support facilities, equipment acquired with other fund (non-MILCON) sources, anti-terrorism/force protection, sustainable construction features, or construction cost growth resulting from unforeseen site conditions or user requested change orders. For medical facilities, the building costs include Categories A and B equipment, but exclude Categories E and F equipment.

e. Unit costs should be adjusted by the appropriate area cost factor, cost escalation factor as described in Appendix C, size adjustment factor in Table I, and other adjustment factors as described in the TM 5-800-4, when applicable. The ACF list is contained in Appendix B, Location Adjustment Factors in the TM 5-800-4, and updated by the latest PAX Newsletter No. 3.2.1, Area Cost Factors Indexes, which is also available on the web page as addressed above.

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f. Size Adjustment Tables, Table -1: Building size identified in Part I of Appendix A is a reference size, and may not represent the standard size shown in the Army Standard Facilities design criteria. Table I, Size Adjustment Factors, shows a correlation between project size and construction cost, and is used to determine an appropriate size adjustment factor for the proposed facility.

g. Chart A in Appendix A contains unit costs for Sitework Utility Piping. Chart C in Appendix A contains information for unit of measurement conversion factors between Metric and English Systems.

**2. APPENDIX C - TRI-SERVICE MILITARY CONSTRUCTION PROGRAM (MCP) INDEX**

Unit costs are escalated to 1 Oct 2010, the assumed midpoint of construction for a typical FY09 MCA project at a location with an Area Cost Factor of 1. The Military Construction Program (MCP) cost index for 1 October 2010 is 2553. For a project with an anticipated midpoint of construction date other than 1 October 2010 a cost escalation factor can be determined from this appendix as follows:

Project Anticipated Midpoint Date - **1 Apr 2011 (MCP Index = 2579)**

Cost Escalation Factor = MCP Index **1 Apr 2011 / MCP Index 1 Oct 2010 = 2579/2553 = 1.0101**

3. The Point of Contacts for this Newsletter letter at HQUSACE can be reached at (202) 761-7503, DSN-763-7503, or (202) 761-5887, DSN 763-5887.

**Unit Costs for Army Facilities**  
**PAX Newsletter 3.2.2 (English), Dated 11 Feb 08**

**APPENDIX A - FACILITY UNIT COST TABLE ( Part - I, Buildings and Major Facilities):** NOTE: Primary Facilities Unit Costs are based on the most recent three years bid results, FY 2005 - 07 MILCON and BRAC projects, whenever adequate (at least three data) number of projects are entered into the Historic Analysis Generator (HAG) database. All bid data were escalated using the OSD provided inflation factors for future years, i.e, from 1 Oct 2007 to 1Oct 2010, which is the assumed mid-point for FY 2010 projects. No across-the-board cut off the Army HAG data or the DOD Pricing Guide, UFC 3-701-08 (to be published later) has been applied this year. Occasionally, FY2004 projects were considered to get the adequate number. For Newly Approved and Significantly Changed Army Standard Designs, the unit costs below provide the Center of Standardizations' (COS) furnished (and validated) pricing. The bid results cover the most volatile construction market period in the recent past, as well as, projects designed and awarded using the MILCON Transformation Strategy (MT) and the Army Standard Requirements and/or Army standard Designs. Unit Costs below do Not include costs for the AT/FP and Sustainable Rating/Energy Policy Act of 2005 compliance.

| CATEGORY CODE | FACILITY TYPE  | REFERENCE SIZE | UNIT | UNIT COST(U/C) \$/Unit | REMARK   |
|---------------|--|----------------|------|------------------------|--|
| 111XX         | AIRFIELD RUNWAYS   |                |      |                        | SEE CATCODE 851XX  |
| 112XX         | AIRFIELD TAXIWAYS  |                |      |                        | SEE CATCODE 851XX  |
| 113XX         | AIRFIELD APRONS  |                |      |                        | SEE CATCODE 851XX  |
| 116XX         | AIRFIELD MISC. PAVING  |                |      |                        | SEE CATCODE 851XX  |
| 124XX         | FUEL STORAGE (OPERATING)   | 1,000          | GA   | \$5.50                 | UNDERGROUND STORAGE - INCLUDES EXCAVATION, BACKFILL & MANHOLE, EXCLUDES EXTERIOR PIPING & PUMPING  |
|               |  | 5,000          | GA   | \$5.30                 |  |
|               |  | 10,000         | GA   | \$5.00                 |  |
|               |  | 20,000         | GA   | \$4.90                 |  |
|               |  | 30,000         | GA   | \$4.65                 |  |
| 13115         | INFORMATION SYSTEMS FACILITY (INFO SYS FAC)                          | 58,000         | SF   |                        | SEE CATCODE 13131 BELOW. HOUSES MAJORITY OF GARRISON LEVEL INFO MGMT & INFO TECH SERVICES, ASSOCIATED ADMIN SUPPORTS & SHOP SPACE  |
| 13120         | COMMUNICATIONS CENTER (COMMO CTR)                                    | 6,000          | SF   | \$276.00               | HUB FACILITY FOR INTERNAL & EXTERNAL COMMO SYSTEMS AND EQUIPMENT. NO SHIELDING   |
| FAC 1312      | <b>SATELLITE COMMUNICATIONS CENTER</b>                               | 6,000          | SF   | \$712.00               | W/ SHIELDING & GENERATOR   |
| 13131         | INFORMATION PROCESSING CTR (Also referred to as DATA PROCESSING CTR) | 21,000         | SF   | \$256.00               | AUTOMATIC COMPUTER EQUIPMENT & DATA PROCESSING FACILITY W/ RAISED FLOOR, SPECIAL TEMPERATURE, HUMIDITY & OTHER ENVIRONMENTAL CONTROL REQMS.  |
| 13310         | <b>FLIGHT CONTROL TOWER</b>  | 4,500          | SF   | \$903.00               | STAND ALONE  |
| 14110         | <b>AIRFIELD OPERATIONS BLDG</b>                                      | 10,000         | SF   | \$287.00               | FLIGHT OPERATIONS, AIRFIELD HQ FUNCTIONS W/O TOWER   |
| 14112         | <b>AVIATION UNIT OPS BLDG</b>  | 12,000         | SF   | \$194.00               | AVN UNIT HQ (ADMINISTRATIVE) & SUPPLY STORAGE  |
| 14113         | ACCESS CONTROL FAC   | 280            | SF   | \$362.00               | SENTRY STATION (THIS CATCODE INDICATES A BUILDING, AND NOT JUST AN OPEN SIDED SHELTER)   |
| 14114         | CIDC FIELD OPERATIONS BLDG   | 9,400          | SF   | \$187.00               |  |
| 14129         | TRAINING AIDS CENTER   | 800            | SF   | \$154.00               |  |
| 14132         | READY BUILDING/ADACG FAC   | 20,000         | SF   | \$215.00               | ARRIVAL & DEPARTURE AIRFIELD CONTROL GROUP FACILITIES  |
| 14162         | SCIF FACILITY  | 25,000         | SF   | \$253.00               |  |
| 14165         | FUELING/POL SUPPORT BLDG   | 195            | SF   | \$271.00               | HOUSES PUMPING EQUIPMENT. ADD PUMPS, ADD STORAGE TANKS (SEE CATCODE 124XX) AND PAVING (SEE CATCODE 851XX)  |
| 141XX         | COMMAND & CONTROL FACILITY (C2F)                                     | 143,000        | SF   | \$246.00               | THIS IS A DIVISION/CORPS LEVEL COMMAND BLDG. NEW CAT CODE FOR THE C2F STANDARD HAS NOT BEEN APPROVED AS OF THE PUBLICATION DATE. COST OF RAISED FLOORING, REDUNDANT ELECT/MECH SYSTEM, AND SECURITY ACCESS SYSTEM IS INCLUDED IN THE U/C. THE COMPOSITE COST, \$246/SF, OF MULTIFUNCTIONAL C2F IS MADE UP OF ROUGHLY 77% ADMIN, 12% EOC & 11% SCIF AREAS   |
|               | ADMINISTRATIVE AREAS   | 110,110        | SF   | \$237.00               |  |
|               | NETWORK/EMERGENCY OPERATIONS CTR                                     | 17,160         | SF   | \$283.00               |  |
|               | SCIF AREAS   | 15,730         | SF   | \$266.00               |  |
| 14179         | OVERHEAD PROTECTION FOR COMPANY OPS FACILITY                         | 8,000          | SF   | \$50.00                | PRE-ENGINEER CANOPY W/ LIGHTING, POWER & LIGHTNING PROTECTION FOR A TYPICAL CO OPS FACILITY (CAT CODE 14185) EQUIPMENT LAYOUT AREA. THE COST OF HARDSTAND IS NOT INCLUDED IN THE U/C, AND SHOULD BE PRICED IN THE SUPPORT FACILITIES PAVEMENTS.  |
| 14182         | BRIGADE HQS BLD (NEW STD DES)  | 40,100         | SF   | \$205.00               |  |
| 14183         | BATTALION HQS BLDG W/ CLASSROOMS                                     | 18,100         | SF   | \$198.00               |  |
| 14185         | COMPANY OPERATIONS FACILITY (COF)                                    | VARIABLES      |      |                        | AREA FOR THE ADMIN & READINESS MODULES WILL BE LISTED & ESTIMATED SEPARATELY IN DD1391 AND ENG3086. THE U/C FOR ADMIN & READINESS MODULES WILL NOT EXCEED THE AMOUNTS SHOWN BELOW. FOR COVERED OVERHEAD PROTECTION, SEE CAT CODE 14179 ABOVE.  |
|               | ADMINISTRATIVE MODULE  | 16,000         | SF   | \$198.00               | 15,000 SF REFERENCE SIZE REFLECTS THE AREA OF A TYPICAL 4-COMPANY (CO) ADMIN MODULE. 42,000 SF REPRESENTS THE AREA OF A TYPICAL 4-CO (2 SM CO @ 150/CO SOLDIERS & 2-MED CO @ 200/CO SOLDIERS) READINESS MODULE (RM). RM AREA PROVIDES FULLY CONDITIONED & SPRINKLED STORAGE SPACE FOR TA-50 LOCKERS AS WELL AS ARMS VAULT. THE COST FOR CONTRACTOR FURNISHED & INSTALLED LOCKERS IS INCLUDED IN THE U/C. |
|               | READINESS MODULE (RM) - STORAGE BLDG                                 | 32,000         | SF   | \$132.00               |  |
| 14955         | WASH PLATFORM, ORG   | 1              | EA   | \$82,244.00            | 2 VEHICLES - LOW PRESSURE W/ WASHWATER TREATMENT   |
| 14960         | GREASE RACK  | 1              | EA   | \$64,089.00            | 2 VEHICLES   |
| 14962         | CENTRALIZED WASH FAC   | 1              | EA   | \$8,003,173.00         | 16 STATIONS WITH WASHWATER RECYCLING   |
| 17119         | ORGANIZATIONAL CLASSROOM   | 32,000         | SF   | \$164.00               | CAN BE STAND ALONE OR LOCATED WITHIN BATTALION HQS BLD, TRAINEE BARRACKS, ETC.   |

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| CATEGORY CODE | FACILITY TYPE                                   | REFERENCE SIZE | UNIT | UNIT COST(U/C) \$/Unit | REMARK   |
|---------------|---|----------------|------|------------------------|--|
| 17120         | <b>GENERAL INSTRUCTION BLDG (GEN INST BLDG)</b> | 25,000         | SF   | \$226.00               | DISTINCT FROM ORGANIZATIONAL CLASSROOMS (Cat Code 17119), MAY INCLUDE AUDITORIUM, LEARNING RESOURCE CTRS, LIBRARY & ADMIN SUPPORT SPACES |
| 171XX         | GENERAL INSTRUCTION BLDG - RANGE                | 0              | SF   | \$202.00               | A NEW CAT CODE PENDING   |
| 17121         | INDOOR FIRING RANGE                             | 23,000         | SF   | \$315.00               |  |
| 17122         | RANGE OPERATIONS & STORAGE BLDG                 | 8,000          | SF   | \$164.00               |  |
| 17123         | RANGE SUPPORT BLDG - AAR BLDG                   | 2,600          | SF   | \$198.00               |  |
|               | FIELD RANGE LATRINES                            | 200            | SF   | \$321.00               | USE CAT CODE 73075 FOR THIS FACILITY   |
| 17131         | COMPACT ITEM REPAIR INST BLDG                   | 6,000          | SF   | \$156.00               |  |
| 17132         | GEN ITEM REPAIR INST BLDG                       | 25,000         | SF   | \$146.00               |  |
| 17133         | <b>VEHICLE MAINTENANCE INST BLDG</b>            | 30,000         | SF   | \$226.00               |  |
| 17134         | <b>AIRCRAFT MAINTENANCE INST BLDG</b>           | 35,000         | SF   | \$260.00               | HIGH BAY BUILDING  |
| 17135         | LABORATORY INST BLDG                            | 9,000          | SF   | \$247.00               |  |
| 17136         | <b>AUTO-AIDED INSTRUCTION BLDG</b>              | 25,000         | SF   | \$260.00               |  |
| 17137         | MATERIAL HANDLING INST BLDG                     | 40,000         | SF   | \$119.00               |  |
| 17139         | COVERED MESS                                    | 8,000          | SF   | \$81.00                |  |
| 17140         | <b>ARMY RESERVE CENTER BLD</b>                  | 20,000         | SF   | \$192.00               | FOR OTHER RESERVE FACILITIES USE UNIT COST FROM APPROPRIATE FACILITY TYPE  |
| 17141         | <b>ARMED FORCES RESERVE CENTER BLD</b>          | 20,000         | SF   | \$192.00               | NEW CAT CODE FOR RESERVE CTR   |
| 17142         | ARMY NATIONAL GUARD/ARMORY                      | 20,000         | SF   |                        | THIS CAT CODE IS NO LONGER USED, WILL BE DELETED FROM DA PAM 428-15  |
| 17180         | <b>ARMY NATIONAL GUARD READINESS CTR</b>        | 20,000         | SF   | \$192.00               | NEW CAT CODE FOR NG READINESS CTR  |
| 17210         | SIMULATOR BUILDING (MOTION-BASED)               | 32,000         | SF   | \$181.00               | BUILDING ONLY  |
| 17971         | OBSERVATION TOWER/BUNKER                        | 800            | SF   | \$231.00               | COST EXCLUDES EQUIPMENT  |
|               | <b>AIRCRAFT MAINTENANCE HANGARS</b>             |                |      |                        |  |
|               | <b>MAINTENANCE GEN PURPOSE</b>                  | 23,000         | SF   | \$239.00               |  |
|               | <b>HIGH BAY MAINTENANCE</b>                     | 35,000         | SF   | \$273.00               |  |
|               | CORROSION CONTROL                               | 35,000         | SF   | \$275.00               |  |
| 21110         | PROPOSED NEW ARMY HANGAR STANDARDS              |                |      |                        | FOLLOWING STANDARDS ARE NOT APPROVED AS OF THE PUBLICATION DATE, UNIT COSTS BEEN NOT BEEN VALIDATED                                      |
|               | AAC MAINTENANCE HANGAR                          | 147,470        | SF   | \$245.00               | Rotary Wing - Attack-Assault-Cavalry   |
|               | ASB MAINTENANCE HANGAR                          | 157,500        | SF   | \$270.00               | Rotary Wing - Aviation Support Battalion   |
|               | GSAB MAINTENANCE HANGAR                         | 157,500        | SF   | \$275.00               | Rotary Wing - Ground Support Aviation Battalion  |
|               | UAS MAINTENANCE HANGAR                          | 134,400        | SF   | \$275.00               | UAV MAINTENANCE HANGAR (UAVHGR)  |
| 21120         | AIRCRAFT COMPONENT MAINTENANCE SHOP             | 20,000         | SF   | \$235.00               |  |
| 21130         | AIRCRAFT PAINT SHOP                             | 70,000         | SF   | \$304.00               |  |
| 21140         | AIRCRAFT ENGINE TEST CELL FAC                   | 13,000         | SF   | \$187.00               |  |
| 21210         | GUIDED MISSILE MAINTENANCE FAC                  | 10,300         | SF   | \$208.00               |  |
| 21410         | <b>VEHICLE MAINTENANCE SHOP - WHEELED</b>       | 30,000         | SF   | \$208.00               |  |
|               | <b>VEHICLE MAINTENANCE SHOP - TRACK</b>         | 25,000         | SF   | \$221.00               |  |
|               | VEHICLE MAINT SHOP - NEW MT STANDARD            | 35,300         | SF   | \$208.00               | COMBINED TRACKED & WHEELED FACILITY  |
| 21470         | OIL STORAGE BLDG                                | 700            | SF   | \$94.00                |  |
| 21610         | AMMO RENOVATION SHOP                            | 6,500          | SF   | \$170.00               |  |
| 21612         | AMMUNITION SURVEILLANCE                         | 13,000         | SF   | \$193.00               |  |
| 21630         | AMMUNITION DEMIL. FACILITY                      | 82,500         | SF   | \$1,064.00             | CHEMICAL DEMILITARIZATION FAC  |
| 21710         | ELECTRONICS MAINTENANCE SHOP                    | 5,500          | SF   | \$146.00               |  |
| 21740         | <b>AIRCRAFT AVIONICS MAINTENANCE SHOP</b>       | 23,000         | SF   | \$219.00               |  |
| 21850         | BATTERY SHOP                                    | 5,000          | SF   | \$147.00               |  |
| 21881         | <b>ABN EQUIP/PARACHUTE REPAIR</b>               | 8,000          | SF   | \$235.00               |  |
| 21885         | <b>INST MAINTENANCE SHOP, GEN PURPOSE</b>       | 31,000         | SF   | \$141.00               |  |
| 21910         | ENG/HOUSING MAINTENANCE SHOP                    | 31,000         | SF   | \$141.00               |  |
| 31010         | CHEMISTRY LAB                                   | 9,000          | SF   | \$247.00               |  |
| 31410         | GROUND TRANS EQUIPMENT BLDG                     | 31,000         | SF   | \$190.00               |  |

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| CATEGORY CODE | FACILITY TYPE  | REFERENCE SIZE | UNIT | UNIT COST(U/C) \$/Unit | REMARK  |
|---------------|--|----------------|------|------------------------|---|
| 411XX         | LIQUID FUEL STORAGE - BULK                             | 2,500          | BL   | \$93.00                | ABOVE GROUND STEEL TANK INCLUDES FOUNDATION DIKE AND EXTERIOR COATINGS (42 US GALS/BBL)                     |
|               |  | 5,000          | BL   | \$61.00                |   |
|               |  | 10,000         | BL   | \$45.00                |   |
|               |  | 25,000         | BL   | \$34.00                |   |
|               |  | 50,000         | BL   | \$24.00                |   |
|               |  | 100,000        | BL   | \$17.00                |   |
|               |  | 250,000        | BL   | \$15.00                |   |
|               | LIQUID FUEL STORAGE - BULK                             | 2,500          | BL   | \$93.00                | ABOVE GROUND STEEL TANK W/ FLOAT PANS INCLUDES FOUNDATION DIKE AND INTERIOR EPOXY LINING & INTERIOR COATING |
|               |  | 5,000          | BL   | \$61.00                |   |
|               |  | 10,000         | BL   | \$50.00                |   |
|               |  | 25,000         | BL   | \$39.00                |   |
|               |  | 50,000         | BL   | \$31.00                |   |
|               |  | 100,000        | BL   | \$23.00                |   |
|               |  | 250,000        | BL   | \$19.00                |   |
| 42180         | IGLOO STORAGE W/ CRANE, DEPOT                          | 5,000          | SF   | \$266.00               | HIGH EXPLOSIVE MAGAZINE, WITH EARTH MOUNDING  |
| 42183         | IGLOO STORAGE W/O CRANE, DEPOT                         | 10,000         | SF   | \$200.00               | GEN PURPOSE MAGAZINE  |
| 42280         | IGLOO STORAGE, INSTALLATION                            |                |      |                        | SEE CATCODE 42180   |
| 42283         | GEN PURPOSE MAGAZINE, INSTALLATION                     |                |      |                        | SEE CATCODE 42183   |
| 43211         | COLD STORAGE WAREHOUSE W/PROCESSING                    | 11,000         | SF   | \$175.00               |   |
|               | COLD STORAGE WAREHOUSE W/O PROCESSING                  | 6,000          | SF   | \$235.00               |   |
| 44110         | GENERAL PURPOSE (G.P.) WAREHOUSE                       |                |      |                        |   |
|               | LOW BAY  | 40,000         | SF   | \$104.00               | 16 FT STACK HEIGHT  |
|               | HIGH BAY   | 100,000        | SF   | \$119.00               | UP TO 26 FT STACK HEIGHT  |
| 44130         | CONTROLLED HUMIDITY WHSE, DEPOT                        | 40,000         | SF   | \$109.00               |   |
| 44135         | HAZARDOUS MATERIAL STORAGE                             | 21,000         | SF   | \$157.00               |   |
| 44150         | FLAMMABLE MATERIAL STORAGE                             | 8,200          | SF   | \$151.00               |   |
| 44181         | VEHICLE STORAGE FACILITY                               | 16,000         | SF   | \$54.00                | OPEN SIDES  |
|               |  | 16,000         | SF   | \$74.00                | ENCLOSED  |
| 44210         | AC PARTS STORAGE BLDG                                  | 16,000         | SF   | \$92.00                |   |
| 44220         | G P STORAGE FACILITY, INST                             |                |      |                        | SEE CATCODE 44110   |
| 44222         | STORAGE SHED, COVERED                                  | 24,000         | SF   | \$37.00                | OPEN SIDES  |
| 44224         | DEPLOYMENT EQUIP STORAGE BLDG                          | 3,400          | SF   | \$99.00                |   |
| 44230         | CONTROLLED HUMIDITY WHSE, INST                         |                |      |                        | SEE CATCODE 44130   |
| 44240         | FLAMMABLE MATERIAL STORAGE, INST                       |                |      |                        | SEE CATCODE 44150   |
| 45110         | OPEN STORAGE AREA, DEPOT                               |                |      |                        | SEE CATCODE 851XX (PART -II)  |
| 45210         | OPEN STORAGE AREA, INST                                |                |      |                        | SEE CATCODE 851XX (PART -II)  |
| 51010         | MEDICAL CENTER/HOSPITAL                                |                | SF   | \$493.00               | STATION HOSPITAL  |
|               |  |                | SF   | \$532.00               | REGIONAL MEDICAL CTR  |
| 53060         | MEDICAL WAREHOUSE                                      | 44,000         | SF   | \$109.00               |   |
| 53071         | AMBULANCE GARAGE                                       | 480            | SF   | \$86.00                |   |
| 54010         | DENTAL CLINIC  | 20,000         | SF   | \$398.00               |   |
| 55010         | MEDICAL CLINIC   | 50,000         | SF   | \$334.00               | ALSO REFERRED AS HEALTH CLINIC  |
|               | AMBULATORY CLINIC                                      | 100,000        | SF   | \$413.00               |   |
| 61001         | MILITARY ENTRANCE PROCESSING STATION (MEPS)            | 26,810         | SF   | \$237.00               |   |
| 61050         | ADMIN FACILITY GENERAL PURPOSE                         | 25,000         | SF   | \$209.00               | INCLUDES ADP CTR, AUDITORIUM, CAFETERIA, SECURITY. PRE-WIRED WORK STATION COST NOT INCLUDED                 |
|               | PRE-WIRED WORK STATION                                 |                | EA   | \$6,341.00             | INCLUDES INSTALLATION COST  |
| 62010         | UNDERGROUND ADMIN FAC                                  | 6,000          | SF   | \$235.00               | HARDENED FACILITY   |
| 711XX         | FAMILY HOUSING W/SPRINKLERS OR FIRE RATED CONSTRUCTION | N/A            | SF   | \$115.00               | CONUS \$/GROSS SF INCLUDES POST AWARD DESIGN COST   |
|               | FAMILY HOUSING W/SPRINKLERS OR FIRE RATED CONSTRUCTION | N/A            | SF   | \$133.00               | OCONUS \$/GROSS SF INCLUDES POST AWARD DESIGN COST  |

**Unit Costs for Army Facilities**  
**PAX Newsletter 3.2.2 (English), Dated 11 Feb 08**

**APPENDIX A - FACILITY UNIT COST TABLE ( Part - I, Buildings and Major Facilities):** NOTE: Primary Facilities Unit Costs are based on the most recent three years bid results, FY 2005 - 07 MILCON and BRAC projects, whenever adequate (at least three data) number of projects are entered into the Historic Analysis Generator (HAG) database. All bid data were escalated using the OSD provided inflation factors for future years, i.e, from 1 Oct 2007 to 1Oct 2010, which is the assumed mid-point for FY 2010 projects. No across-the-board cut off the Army HAG data or the DOD Pricing Guide, UFC 3-701-08 (to be published later) has been applied this year. Occasionally, FY2004 projects were considered to get the adequate number. For Newly Approved and Significantly Changed Army Standard Designs, the unit costs below provide the Center of Standardizations' (COS) furnished (and validated) pricing. The bid results cover the most volatile construction market period in the recent past, as well as, projects designed and awarded using the MILCON Transformation Strategy (MT) and the Army Standard Requirements and/or Army standard Designs. Unit Costs below do Not include costs for the AT/FP and Sustainable Rating/Energy Policy Act of 2005 compliance.

| CATEGORY CODE | FACILITY TYPE   | REFERENCE SIZE  | UNIT   | UNIT COST(U/C) \$/Unit | REMARK  |
|---------------|---|---|--------|------------------------|---|
| 71410         | DETACHED GARAGES  | 240   | SF     | \$54.00                | SINGLE CAR/MASONRY  |
|               |   |   |        | \$44.00                | SINGLE CAR/WOOD   |
| 71411         | CARPORT   | 240   | SF     | \$35.00                | OPEN SIDES  |
| 72111         | BARRACKS (UNACCOMPANIED PERSONNEL HOUSING, ENLISTED) - 192 PERSON PERMANENT PARTY | 99,500  | SF     | \$199.00               | DOES NOT INCLUDE FREE STANDING EQUIPMENT. NOTE: ALL UNFINISHED OR FINISHED ATTIC AREAS WITH AN AVERAGE HEIGHT OF 6'-11" (2100 MM) MEASURED FROM THE UNDERSIDE OF THE STRUCTURAL SYSTEM AND AREAS WITH PERIMETER WALLS, MEASURING A MINIMUM HEIGHT OF 4'-11" (1500 MM), MUST BE COUNTED AS FULL SCOPE.   |
|               | SOLDIER COMMUNITY BLDG  |   |        |                        | NO LONGER PROGRAMMED  |
| 721XX         | WARRIORS IN TRANSITION COMPLEX (WT)   |   |        |                        | CATCODE FOR THE WT COMPLEX NOT CONFIRMED. UNIT COSTS FOR WT COMPLEX ARE ASSUMED TO 17% HIGHER THAN THE PERMANENT PARTY FACILITIES DUE TO CONFORMANCE WITH THE UNIFORM FED ACCESSIBILITY SECTION (UFAS) AND THE AMERICAN W/ DISABILITY ACT ACCESSIBILITY GUIDELINES (ADAAG). THE SIZE ADJUSTMENT TABLE (Table -A) WILL BE USED TO DETERMINE UNIT COSTS FOR OTHER SIZES OF BARRACKS, BATTALION HQ AND COMPANY HQ BLDGS. |
|               | BARRACKS BLDG, 192 PERSON   | 134,400   | SF     | \$233.00               |   |
|               | 14188 - BATTALION HQS w/o CLASSROOMS  | 8,100   | SF     | \$208.00               |   |
|               | 14188 - COMPANY HQ BLDG   | 10,300  | SF     | \$204.00               |   |
|               | 74033 - SOLDIER FAMILY ASSISTANCE CTR, LGE  | 15,000  | SF     | \$208.00               |   |
| 72121         | ADVANCED INDIVIDUAL TRAINING COMPLEX (AIT)  |   |        |                        | A TYPICAL AIT COMPLEX HOUSES APPROX. 1,200 TRAINEES, 300 EA, IN 4 BARRACK/CO OPS BLD. @92,800 SF/ BLD, BN HQS, AND A 1-BN DINING FACILITY. THE AREA FOR EACH FACILITY WITHIN THE COMPLEX WILL BE LISTED SEPARATELY IN DD1391 AND ENG3086. THE NORMALIZED U/C FOR EACH FACILITY TYPES WILL NOT BE EXCEED.  |
|               | 72121 - BARRACKS/ COMPANY (CO) OPS BLD  | 371,220   | SF     | \$192.00               |   |
|               | 14183 - BATTALION (BN) HQS W/CLASSRMS   | 13,285  | SF     | \$198.00               |   |
|               | 14182 - BRIGADE HEADQUARTERS, IF NEEDED   | 9,650   | SF     | \$205.00               |   |
|               | 72110 - DINING FACILITY - 1 BN, 1300 PN, 544-SEAT                                 | 33,760  | SF     | \$293.00               | DINING FACILITY INCLUDES COVERED QUEUING AREA AT FULL SCOPE. PN = PERSON  |
|               | 72110 - DINING FACILITY- 2 BN, 2600 PN, 1088-SEAT                                 | 62,390  | SF     | \$280.00               |   |
| 72181         | BASIC TRAINEE (BT) & ONE STATION UNIT TRAINING (BT/OSUT) COMPLEX                  |   |        |                        | A TYPICAL BT/OSUT COMPLEX HOUSES APPROX. 1,200 TRAINEES (240 EA IN 5 OPEN BAY BARRACK/CO OPS BLD. @64,680 SF/ BLD), BN HQS, AND A 1-BN DINING FACILITY. LAWN EQUIPMENT STORAGE (2,000 SF), 1/4 MILE ATHLETIC TRACK (8 LANES), AND CENTRAL ENERGY PLANT, IF NEEDED, SHOULD ALSO BE PROGRAMMED FOR THE COMPLEX.   |
|               | BARRACKS BLDG (W/ CO OPS SPACE)   | 323,400   | SF     | \$184.00               | FULL SCOPED COVERED TRAINING AREAS UNDER BARRACK BUILDINGS ARE INCLUDED IN THE GSF. DINING FACILITY INCLUDES COVERED QUEUING AREA AT FULL SCOPE. THE AREA FOR EACH FACILITY WITHIN THE COMPLEX WILL BE LISTED SEPARATELY IN DD1391 AND ENG3086. THE NORMALIZED U/C FOR EACH FACILITY TYPES WILL NOT BE EXCEED. PN = PERSON  |
|               | BATTALION (BN) HQS W/CLASSROOMS   | 23,335  | SF     | \$189.00               |   |
|               | DINING FACILITY- 1 BN, 1300 PN, 544 SEATS   | 33,760  | SF     | \$293.00               |   |
|               | DINING FACILITY - 2 BN, 2600 PN, 1088 SEATS                                       | 62,390  | SF     | \$280.00               |   |
|               | OPERATIONAL READINESS TRAINING COMPLEX (ORTC)                                     |   |        |                        | NO NEW CAT CODE ASSIGNED  |
|               | 14184 - BATTALION HQ, TRANSIENT   | 11,235  | SF     | \$150.00               | GROSS AREA IS BASED ON THE 6-COMPANY OPTION   |
|               | 14186 - COMPANY OPS FAC, TRANSIENT  | 19,580  | SF     | \$161.00               |   |
|               | 14187 - BRIGADE HQ, TRANSIENT   | 10,240  | SF     | \$168.00               |   |
|               | 21406 - VEHICLE MAINTENANCE SHOP, ORTC  | 11,855  | SF     | \$145.00               |   |
|               | 72212 - DINING FACILITY, 720 PERSON, ORTC   | 16,960  | SF     | \$315.00               |   |
|               | 72212 - DINING FACILITY, 1428 PERSON, ORTC  | 20,990  | SF     | \$308.00               |   |
|               | 72114 - ENLISTED BARRACKS, ORTC   | 30,560  | SF     | \$148.00               |   |
|               | 72412 - SN. ENLISTED OFFICERS QTRS, ORTC  | 22,560  | SF     | \$181.00               |   |
|               | 44222 - COMPANY SHEDS   | 800   | SF     | \$77.00                |   |
|               | 72210   | DINING FACILITY - FOR PERMANENT PARTY, 1300 PERSON, 544 SEATING | 26,500 | SF                     | \$300.00  |
| 72410         | UNACCOMPANIED OFFICERS QUARTERS   | 44,000  | SF     | \$238.00               | DOES NOT INCLUDE FREE-STANDING KITCHENETTE EQUIPMENT  |
| 72412         | UNACCOMP. OFFICERS QTRS - TRANSIENT   | 44,000  | SF     | \$238.00               |   |
| 73010         | FIRE STATION, COMMUNITY   | 8,000   | SF     | \$252.00               |   |
| 73016         | POLICE/LAW ENFORCEMENT STATION  | 4,200   | SF     | \$263.00               |   |

**Unit Costs for Army Facilities**  
**PAX Newsletter 3.2.2 (English), Dated 11 Feb 08**

**APPENDIX A - FACILITY UNIT COST TABLE ( Part - I, Buildings and Major Facilities):** NOTE: Primary Facilities Unit Costs are based on the most recent three years bid results, FY 2005 - 07 MILCON and BRAC projects, whenever adequate (at least three data) number of projects are entered into the Historic Analysis Generator (HAG) database. All bid data were escalated using the OSD provided inflation factors for future years, i.e, from 1 Oct 2007 to 1 Oct 2010, which is the assumed mid-point for FY 2010 projects. No across-the-board cut off the Army HAG data or the DOD Pricing Guide, UFC 3-701-08 (to be published later) has been applied this year. Occasionally, FY2004 projects were considered to get the adequate number. For Newly Approved and Significantly Changed Army Standard Designs, the unit costs below provide the Center of Standardizations' (COS) furnished (and validated) pricing. The bid results cover the most volatile construction market period in the recent past, as well as, projects designed and awarded using the MILCON Transformation Strategy (MT) and the Army Standard Requirements and/or Army standard Designs. Unit Costs below do Not include costs for the AT/FP and Sustainable Rating/Energy Policy Act of 2005 compliance.

| CATEGORY CODE | FACILITY TYPE                                   | REFERENCE SIZE | UNIT | UNIT COST(U/C) \$/Unit | REMARK  |
|---------------|---|----------------|------|------------------------|---|
| 73017         | CHAPEL  | 15,000         | SF   | \$307.00               | USE THIS UNIT COST (\$307/SF) FOR THE ARMY STANDARD CHAPEL SIZE 17,900 SF WITH SEATING FOR 202 PN. USE THE SIZE ADJUSTMENT TABLE FOR THE OTHER TWO STD. CHAPEL SIZES - CHAPEL CENTER, 22,600 SF FOR 400 PN SEATING AND CHAPEL COMPLEX, 32,900 SF FOR 600 PN SEATING |
| 73018         | RELIGIOUS EDUCATION FAC                         | 15,000         | SF   | \$182.00               | PRICE THIS SPACE SEPARATELY FROM THE WORSHIP SPACES IF COLLOCATED WITH A CHAPEL BUILDING  |
| 73019         | CHAPEL FAMILY LIFE CENTER                       | 15,000         | SF   | \$182.00               | SPACE FOR FAMILY COUNSELING, PASTORAL EDUCATION, COMMUNITY BASED ACTIVITIES IN SUPPORT OF THE COMMAND RELIGIOUS PROGRAM. STANDARD SIZES: 11,770 SF (200-300 PN) AND 16,970 (300-450 PN)   |
| 73046         | <b>DEPENDENT SCHOOLS</b>                        |                |      |                        |   |
|               | <b>ELEMENTARY</b>                               |                | SF   | \$206.00               |   |
|               | <b>JUNIOR HIGH SCHOOL</b>                       |                | SF   | \$206.00               |   |
|               | <b>HIGH SCHOOL</b>                              |                | SF   | \$217.00               |   |
| 74010         | AUDITORIUM, GEN PURPOSE                         | 4,000          | SF   | \$172.00               |   |
| 74011         | <b>BOWLING CENTER</b>                           | 7,800          | SF   | \$237.00               | W/ EQUIP - 8 LANES (PIN SPOTTING EQUIP & AUTO. SCORING DEVICE)  |
| 74012         | CAFETERIA                                       | 5,000          | SF   | \$212.00               |   |
| 74014         | CHILD DEVELOPMENT CENTER                        | 25,000         | SF   |                        | THIS CAT CODE IS NO LONGER USED, WILL BE DELETED FROM DA PAM 415-28   |
| 74016         | CHILD DEVELOPMENT CTR-SCHOOL AGE                | 25,000         | SF   | \$225.00               | NEW CAT CODE, DOES NOT INCLUDE PLAYGROUND   |
| 74017         | <b>CHILD DEVELOPMENT CTR - UNDER 6 YEAR AGE</b> | 25,000         | SF   | \$231.00               | DOES NOT INCLUDE FREE-STANDING FOOD SERVICE EQUIPMENT OR PLAYGROUND AREA AND EQUIPMENT. FOR OUTDOOR PLAY AREA, SEE CATCODE 75018  |
| 74021         | <b>COMMISSARY W/ OPERATIONAL EQUIPMENT</b>      | 85,000         | SF   | \$199.00               |   |
| 74022         | SKILL DEVELOPMENT CENTER                        | 22,000         | SF   | \$148.00               | NON-AUTOMOTIVE CRAFTS/GENERAL SKILL   |
| 74023         | CREDIT UNION                                    | 3,000          | SF   | \$168.00               | INCLUDES VAULT  |
| 74024         | SKILL DEVELOPMENT CENTER                        | 15,000         | SF   | \$141.00               | AUTOMOTIVE CRAFTS   |
| 74025         | <b>EDUCATION CENTER</b>                         | 30,000         | SF   | \$243.00               | ARMY CONTINUING EDUCATION SYSTEM FACILITY   |
| 74028         | <b>PHYSICAL FITNESS CENTER</b>                  | 30,000         | SF   | \$192.00               | EXCLUDES INDOOR SWIMMING POOL (74042)   |
| 74030         | SPORT PRO SHOP                                  | 28,000         | SF   | \$173.00               | INCLUDES SNACK BAR, PRO SHOP SALES AREAS  |
| 74032         | <b>GUEST HOUSE</b>                              | 30,000         | SF   | \$205.00               | TEMPORARY LODGING FACILITIES  |
| 74033         | <b>COMMUNITY SERVICE CENTER</b>                 | 5,000          | SF   | \$225.00               | ALSO REFERRED TO AS FAMILY SERVICE CENTER   |
| 74041         | <b>MAIN LIBRARY</b>                             | 12,000         | SF   | \$238.00               |   |
| 74047         | <b>NCO OPEN DINING / SERVICE CLUB</b>           | 22,500         | SF   | \$323.00               | ALSO REFERRED TO AS CONSOLIDATED OPEN DINING FAC  |
| 74048         | OFFICER OPEN DINING                             | 22,500         | SF   |                        | SEE CATCODE 74047   |
| 74053         | <b>MAIN EXCHANGE</b>                            | 80,000         | SF   | \$164.00               | W/ MALL SERVICE SHOPS   |
| 74056         | EXCHANGE SERVICE OUTLET                         |                |      |                        | SEE CATCODE 74053   |
| 74066         | <b>YOUTH CENTER</b>                             | 25,000         | SF   | \$235.00               |   |
| 74068         | <b>RECREATION CENTER</b>                        | 20,000         | SF   | \$235.00               |   |
| 74070         | INDOOR ROLLER SKATING RINK                      | 20,000         | SF   | \$132.00               |   |
| 74072         | INDOOR SWIMMING POOL                            | 6,000          | SF   | \$207.00               | 25 METER NATATORIUM   |
| 74075         | RECREATIONAL SUPPORT BUILDING                   | 5,000          | SF   | \$92.00                | ALSO RECREATIONAL EQUIP CHECKOUT  |
| 75018         | PLAYGROUND, GEN PURPOSE                         |                |      |                        |   |
|               | CHILD DEVELOPMENT CTR OUTDOOR PLAY AREA:        |                |      |                        |   |
|               | 60 CHILD CAPACITY                               | 6,000          | SF   | \$40.00                | COST OF PLAY AREA INCLUDES FENCE, EQUIPMENT, AND SHED   |
|               | 99 CHILD CAPACITY                               | 9,900          | SF   | \$32.00                |   |
|               | 122 CHILD CAPACITY                              | 12,200         | SF   | \$28.00                |   |
|               | 145 CHILD CAPACITY                              | 14,500         | SF   | \$23.00                |   |
|               | 198 CHILD CAPACITY                              | 19,800         | SF   | \$20.00                |   |
|               | 244 CHILD CAPACITY                              | 24,400         | SF   | \$18.00                |   |
|               | 303 CHILD CAPACITY                              | 30,300         | SF   | \$16.00                |   |
| 75022         | MULTI-PURPOSE ATHLETICS FIELD                   | 1              | EA   | \$196,544.00           | TURFED AREA EXCLUDES SITE PREP & ELECTRICAL LIGHTING  |
| 75030         | OUTDOOR SWIMMING POOL                           | 13,000         | SF   | \$111.00               | 50 METER WITH CHANGE HOUSE  |
| 891XX         | PLANT/UTILITIES BLDG                            |                | SF   | \$170.00               | NO PLANT EQUIPMENT  |

**Unit Costs for Army Facilities**  
**PAX Newsletter 3.2.2 (English), Dated 11 Feb 08**

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| CATEGORY CODE | FACILITY TYPE   | REFERENCE SIZE | UNIT | UNIT COST(U/C)<br>\$/Unit | REMARK |
|---------------|---|----------------|------|---------------------------|--------|
|               | <b>NO CATEGORY CODE IS AVAILABLE FOR FOLLOWING ITEMS:</b> |                |      |                           |        |
|               | FOUNDATIONS, UNUSUAL                                      |                |      |                           |        |
|               | PILING, TREATED WOOD, 50' L, 12" BUTT                     |                | LF   | \$33.00                   |        |
|               | PILING, CONCRETE 14" SQUARE                               |                | LF   | \$50.00                   |        |
|               | PILING, CONCRETE 16" SQUARE                               |                | LF   | \$53.00                   |        |
|               | PILING, CONCRETE 18" DIAMETER                             |                | LF   | \$60.00                   |        |
|               | PILING, STEEL H, 50' LONG, HP12X53                        |                | LF   | \$41.00                   |        |
|               | PILING, STEEL PIPE 12"D, CONC. FILLED                     |                | LF   | \$50.00                   |        |



**Unit Cost for Army Facilities**  
**PAX Newsletter 3.2.2, dated 11 Feb 08**

**APPENDIX A - FACILITY UNIT COST TABLE ( Part - II, Support Facilities)**

**NOTE: The Support Facilities Unit Costs below are for guidance only. Adjustments to these unit costs are allowed when local cost data are available and provided with back-ups.**

| CATEGORY | ITEM   | QUANTITY | UNIT | UNIT COST       | REMARK   |
|----------|--|----------|------|-----------------|--|
|          |  |          |      | \$/UNIT         |  |
| 81150    | UNINTERRUPTIBLE POWER SUPPLY (UPS)             |          | KW   | \$4,893.00      | UTILITY SYSTEM TO ENSURE CONTINUOUS ELECTRIC PWR SUPPLY DURING OUTAGES AND INCLUDES ELECTRIC SYSTEM COMPONENTS (RECTIFIER, CHARGER, BATTERY, INVERTER, ETC)                          |
| 81160    | STANDBY GENERATOR                              | 75       | KW   | \$533.00        | UTILITY SYSTEM TO ENSURE CONTINUOUS ELECTRIC PWR SUPPLY DURING OUTAGES. COST INCLUDES ELECTRIC SYSTEM COMPONENTS SUCH AS RECTIFIER, CHARGER, BATTERY, INVERTER, TRANSFER SWITCH ETC) |
|          |  | 125      | KW   | \$383.00        |  |
|          |  | 200      | KW   | \$305.00        |  |
|          |  | 300      | KW   | \$260.00        |  |
| 89111    | POWER PLANT BUILDING                           |          | SF   | \$170.00        | STAND ALONE BUILDING TO HOUSE EQUIPMENT AND STATIC SWITCHGEAR NECESSARY TO GENERATE ELECTRIC POWER   |
| 81230    | EXTERIOR LIGHTING w/ UNDER GROUND DISTRIBUTION |          | LF   | \$33.00         | BASED ON WOOD POLE, 1" PVC DIRECT BURIAL CONDUIT, WITH 3' DEEP EXCAVATION, #10 WIRE AND 500 WATT MV LAMINAR FIXTURE  |
| 81241    | OVERHEAD ELECTRIC LINES                        |          |      |                 |  |
|          | MEDIUM TO HEAVY DISTRIBUTION LINES             |          | MI   | \$112,000.00    | BASED ON WOOD POLES 15 KV TO 69 KV SHORT LINES, WOOD POLE, 3 PH, 4 WIRE  |
|          | OVERHEAD W/ WOOD POLES                         |          | LF   | \$26 - 31.00    | BASED ON POLE SPACING 250', WITH 15 KV MAX, 3 PHASE, 4 WIRE  |
| 81242    | UNDERGRD ELECTRIC LINES                        |          |      |                 |  |
|          | DIRECT BURIAL:                                 |          |      |                 | COSTS INCL TRENCH, SAND BASE, BACKFILL AND MARKER  |
|          | # 1/0  |          | LF   | \$18.00         | 3/C - 600V DB  |
|          | # 4/0  |          | LF   | \$30.00         | 3/C - 600V DB  |
|          | UG DUCTS:                                      |          |      |                 |  |
|          | 1-WAY-4"                                       |          | LF   | \$23.00         | TYPE EB, PVC, CONCRETE ENCASED 3" EACH WAY, INCLUDES EXCAVATION AND BACKFILL TO 3 FEET DEEP  |
|          | 2-WAY-4"                                       |          | LF   | \$28.00         |  |
|          | 4-WAY-4"                                       |          | LF   | \$35.00         |  |
|          | 6-WAY-6"                                       |          | LF   | \$52.00         |  |
|          |  |          |      |                 |  |
| 81320    | SUBSTATION, LOAD UNINTER. SWITCH 600 AMP       |          | KVA  | \$75.00         | 300 KVA & BELOW W/CLF FUSES. DOES NOT INCL BUILDING (89113)  |
| 81360    | TRANSFORMERS                                   |          |      |                 | PRIMARY DELTA OR Y,277/480 V SECONDARY   |
|          | 150 KVA  |          | EA   | \$12,610.00     | OIL-FILLED, PAD MOUNTED, 3-PHASE   |
|          | 500 KVA  |          | EA   | \$18,860.00     |  |
|          | 1,000 KVA                                      |          | EA   | \$34,060.00     |  |
|          | 2,000 KVA                                      |          | EA   | \$50,110.00     |  |
| 82110    | HEAT PLANT COAL-FIRED                          |          |      |                 |  |
|          | STEAM:   |          |      |                 |  |
|          | 50 MBTU/H (MILLION BTU/H)                      |          | EA   | \$4,118,660.00  | UTILITY SYSTEM THAT GENERATE HEAT FROM COAL AND INCLUDES FURNACE, BOILERS, WATER SUPPLY, PUMPS, PIPELINES, & FUEL & ASH HANDLING FACILITIES.   |
|          | 100 MBTU/H                                     |          | EA   | \$7,552,710.00  |  |
|          | 150 MBTU/H                                     |          | EA   | \$10,762,950.00 |  |
|          | 200 MBTU/H                                     |          | EA   | \$13,788,950.00 |  |
|          | HITEMP WATER:                                  |          |      |                 |  |
|          | 50 MBTU/H                                      |          | EA   | \$3,927,100.00  | INCLUDES FURNACE, BOILERS, WATER SUPPLY, PUMPS, PIPELINES, & FUEL & ASH HANDLING FACILITIES  |
|          | 100 MBTU/H                                     |          | EA   | \$6,305,460.00  |  |
|          | 150 MBTU/H                                     |          | EA   | \$8,408,020.00  |  |
|          | 200 MBTU/H                                     |          | EA   | \$10,762,950.00 |  |
|          |  |          |      |                 |  |
| 82120    | HEAT PLANT OIL-FIRED                           |          |      |                 |  |
|          | STEAM:   |          |      |                 |  |
|          | 10 MBTU/H                                      |          | EA   | \$743,660.00    | INCLUDES PLANT EQUIP & OIL HANDLING FACILITY   |
|          | 50 MBTU/H                                      |          | EA   | \$2,554,790.00  |  |
|          | 100 MBTU/H                                     |          | EA   | \$4,892,960.00  |  |

Unit Cost for Army Facilities  
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|---|--|----------|------|----------------|---|
| NOTE: The Support Facilities Unit Costs below are for guidance only. Adjustments to these unit costs are allowed when local cost data are available and provided with back-ups. |  |          |      |                |   |
| CATEGORY  | ITEM   | QUANTITY | UNIT | UNIT COST      | REMARK  |
|   |  |          |      | \$/UNIT        |   |
|   | 150 MBTU/H   |          | EA   | \$7,098,260.00 |   |
|   | 200 MBTU/H   |          | EA   | \$8,597,860.00 |   |
|   | HITEMP WATER:  |          |      |                |   |
|   | 10 MBTU/H  |          | EA   | \$672,190.00   | INCLUDES PLANT EQUIP & OIL HANDLING FACILITY  |
|   | 50 MBTU/H  |          | EA   | \$2,372,800.00 |   |
|   | 100 MBTU/H   |          | EA   | \$4,427,350.00 |   |
|   | 150 MBTU/H   |          | EA   | \$6,305,460.00 |   |
|   | 200 MBTU/H   |          | EA   | \$8,200,340.00 |   |
| 82210   | STEAM CONDENSATE LINES - UNDERGROUND                 |          |      |                | STEAM SUPPLY & RETURN LINES, COST INCLUDES INSULATION, FITTINGS, ACCESSORIES, 3 FEET EXCAVATION, BACKFILL AND TESTING               |
|   | COMMON CONDUIT:                                      |          |      |                |   |
|   | 11-1/4"  |          | LF   | \$218.00       | STM: 2", RET: 1-1/2"  |
|   | 10"  |          | LF   | \$199.00       | STM: 1-1/2", RET: 1-1/2"  |
|   | 10"  |          | LF   | \$189.00       | STM: 1-1/4", RET: 1"  |
|   | 10"  |          | LF   | \$187.00       | STM: 1", RET: 1"  |
|   | SINGLE CONDUIT:                                      |          |      |                | STEAM OR HITEMP WATER, COST INCLUDES FITTINGS, ACCESSORIES, 3 FT EXCAVATION, BACKFILL AND TESTING                                   |
|   | 6"   |          | LF   | \$119.00       | 1-1/4" PIPE   |
|   | 8"   |          | LF   | \$129.00       | 1-1/2" PIPE   |
|   | 8"   |          | LF   | \$131.00       | 2" PIPE   |
|   | 10"  |          | LF   | \$157.00       | 2-1/2" PIPE   |
|   | 10"  |          | LF   | \$168.00       | 3" PIPE   |
|   | 11-1/8"  |          | LF   | \$203.00       | 4" PIPE   |
|   | 15"  |          | LF   | \$233.00       | 6" PIPE   |
| 82220   | HOT WATER LINES - HIGH TEMPERATURE                   |          |      |                | HOT WATER SUPPLY & RETURN LINES   |
|   | COMMON CONDUIT - UNDERGROUND                         |          |      |                | INCLUDES FITTINGS, ACCESSORIES, 3 FT EXCAVATION, BACKFILL & TESTING   |
|   | 12"  |          | LF   | \$170.00       | HW: 1", RET: 1"   |
|   | 12-7/8"  |          | LF   | \$208.00       | HW: 1-1/2", RET: 1-1/2"   |
|   | 15"  |          | LF   | \$256.00       | HW: 2", RET: 2"   |
|   | 18"  |          | LF   | \$281.00       | HW: 3", RET: 3"   |
|   | 21"  |          | LF   | \$326.00       | HW 4:, RET: 4"  |
| 82220   | STEAM DISTRIBUTION MANHOLE, PREFAB STEEL, 8' X 6' HT |          | EA   | \$17,200.00    | VENT, MH VENT, NORMAL PIPING & INSTALLATION, CONDUIT, INCL LADDER   |
| 82410   | GAS PIPE LINES - HEATING GAS TRANSMISSION            |          |      |                | SEE CHART A   |
| 82610   | AIR CONDITIONING/REFRIG PLANT                        |          |      |                | DOES NOT INCLUDE AIR-CONDITIONING/ REFRIGERATION PLANT, COST INCLUDES EQUIPMENT, SUCH AS COMPRESSOR, CONDENSER, PUMPS, VALVES, ONLY |
|   | NEW BLDG   |          | TON  | \$3,384.00     |   |
|   | EXISTING BLDG  |          | TON  | \$4,734.00     |   |
| 83140   | INDUSTRIAL WASTE TREATMENT PLANT                     |          | EA   | \$1,824,540.00 | 500,000 GPD , TREATMENT EQUIPMENT ONLY, DOES NOT INCLUDE A BUILDING TO HOUSE THE EQUIPMENT  |
| 83150   | SEWAGE LIFT STATION                                  |          | EA   | \$210,170.00   | 1,000 GPM; EQUIPMENT ONLY, DOES NOT INCLUDE A BUILDING TO HOUSE THE EQUIPMENT   |
| 83210   | SANITARY SEWER                                       |          |      |                | SEE CHART A   |

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**NOTE: The Support Facilities Unit Costs below are for guidance only. Adjustments to these unit costs are allowed when local cost data are available and provided with back-ups.**

| CATEGORY | ITEM                           | QUANTITY | UNIT | UNIT COST      | REMARK  |
|----------|--------------------------------|----------|------|----------------|---|
| CODE     |                                |          |      | \$/UNIT        |   |
| 83210    | SANITARY SEWER MANHOLES:       |          |      |                | MANHOLE, 4 FT ID, INCLUDES FOOTING, EXCAVATION & BACKFILL, 24" DIA COVER & FRAME  |
|          | CONCRETE, CAST-IN-PLACE        |          |      |                |   |
|          | UP TO 8' DEEP                  |          | VLF  | \$569.00       |   |
|          | OVER 8' DEEP                   |          | VLF  | \$609.00       |   |
|          | CONCRETE, PRECAST:             |          |      |                |   |
|          | UP TO 8' DEEP                  |          | VLF  | \$393.00       |   |
|          | OVER 8' DEEP                   |          | VLF  | \$431.00       |   |
| 832XX    | MISC:                          |          |      |                |   |
|          | CATCH BASINS                   |          | EA   | \$2,616.00     | 4 FT DEEP   |
|          | CATCH BASINS                   |          | EA   | \$3,036.00     | 6 FT DEEP   |
|          | CURB INLETS                    |          | EA   | \$617.00       | GUTTERMOUTH   |
| 83310    | INCINERATOR                    |          | EA   | \$49,890.00    | 200 LB PER HR PER UNIT (EQUIPMENT ONLY, BUILDING NOT INCLUDED)  |
| 84210    | WATER DISTRIBUTION LINES       |          |      |                | SEE CHART A   |
| 84472    | WATER PUMP STATION, NONPOTABLE |          |      |                |   |
|          | 500 GPM                        |          | EA   | \$76,480.00    | EQUIPMENT ONLY, INCLUDES PUMPS, VALVES, AUTO CONTROLS, FILLINGS & ACCESSORIES, COMPLETE W/ INSTALLATION COSTS, DOES NOT INCLUDE A BUILDING TO HOUSE THE EQUIPMENT |
|          | 1,000 GPM                      |          | EA   | \$101,520.00   |   |
|          | 2,000 GPM                      |          | EA   | \$114,160.00   |   |
|          | 2,500 GPM                      |          | EA   | \$117,530.00   |   |
| 84610    | WATER STORAGE TANK             |          |      |                |   |
|          | ELEVATED WATER STG TANK        |          |      |                |   |
|          | 50,000 GA                      |          | EA   | \$381,270.00   | INCLUDES STEEL STORAGE TANK STANDPIPE, 125 FEET HIGH TOWER, VALVES AND STD FOUNDATIONS, BUT DOES NOT INCLUDE PUMPHOUSE BUILDING                                   |
|          | 100,000 GA                     |          | EA   | \$478,280.00   |   |
|          | 150,000 GA                     |          | EA   | \$573,040.00   |   |
|          | 250,000 GA                     |          | EA   | \$659,890.00   |   |
|          | 500,000 GA                     |          | EA   | \$1,061,460.00 |   |
|          | 750,000 GA                     |          | EA   | \$1,466,310.00 |   |
|          | 1,000,000 GA                   |          | EA   | \$1,863,580.00 |   |
|          | GROUND STG TANK (WATER)        |          |      |                |   |
|          | 100,000 GA                     |          | EA   | \$263,990.00   | INCLUDES CONCRETE TANK AND STD FOUNDATIONS, BUT DOES NOT INCLUDE EXTERNAL PIPING AND PUMPING  |
|          | 250,000 GA                     |          | EA   | \$437,670.00   |   |
|          | 500,000 GA                     |          | EA   | \$539,160.00   |   |
|          | 1,000,000 GA                   |          | EA   | \$724,170.00   |   |
|          | 2,000,000 GA                   |          | EA   | \$1,043,390.00 |   |
|          | 4,000,000 GA                   |          | EA   | \$1,650,430.00 |   |
| 84620    | RESERVOIR, POTABLE             |          |      |                |   |
|          | 250,000 GA                     |          | EA   | \$426,360.00   | INCLUDES 6" CONCRETE FLOOR SLAB, ORDINARY EXCAVATION AND PUMPING WITHIN   |
|          | 500,000 GA                     |          | EA   | \$568,560.00   |   |
|          | 1,000,000 GA                   |          | EA   | \$785,060.00   |   |
|          | 2,000,000 GA                   |          | EA   | \$1,206,760.00 |   |
|          | 4,000,000 GA                   |          | EA   | \$1,983,180.00 |   |
| 851XX    | ROADS/ PAVEMENTS               |          |      |                | INCLUDE DRIVEWAYS, EXCLUDES VEHICLE PARKING, EARTHWORK (CUT & FILL, CATCODE 93410, COST NOT INCLUDED)   |

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| APPENDIX A - FACILITY UNIT COST TABLE ( Part - II, Support Facilities)  |  |          |      |            |  |
|---|--|----------|------|------------|--|
| NOTE: The Support Facilities Unit Costs below are for guidance only. Adjustments to these unit costs are allowed when local cost data are available and provided with back-ups. |  |          |      |            |  |
| CATEGORY  | ITEM   | QUANTITY | UNIT | UNIT COST  | REMARK   |
| CODE  |  |          |      | \$/UNIT    |  |
|   | ASPHALT CONCRETE SURFACE   |          |      |            |  |
|   | 1-1/2"   |          | SY   | \$5.20     | FOR PAVEMENT ONLY, A/C SURFACE, URBAN AREA   |
|   | 2"   |          | SY   | \$6.80     |  |
|   | 3"   |          | SY   | \$9.90     |  |
|   | CONCRETE SURFACE - NON REINFORCED  |          |      |            |  |
|   | 6"   |          | SY   | \$32.00    | 12 FEET PASS FIXED FORM, JOINTS, FINISHING, CURING, URBAN AREA   |
|   | 8"   |          | SY   | \$44.00    |  |
|   | 10"  |          | SY   | \$51.00    |  |
|   | 12"  |          | SY   | \$59.00    |  |
|   | BASE COURSE (CRUSHED STONES), THICKNESS:   |          |      |            |  |
|   | 4"   |          | SY   | \$7.10     | INCLUDES MATERIAL, EQUIPMENT & COMPACTION  |
|   | 6"   |          | SY   | \$10.00    |  |
|   | 8"   |          | SY   | \$13.00    |  |
|   | 12"  |          | SY   | \$20.00    |  |
|   | BASE COURSE (BANK RUN GRAVEL), THICKNESS:  |          |      |            | INCLUDES MATERIAL, TRANSPORT & PLACEMENT   |
|   | 6"   |          | SY   | \$5.50     |  |
|   | 9"   |          | SY   | \$8.20     |  |
|   | 12"  |          | SY   | \$11.00    |  |
|   | BASE COURSE (BITUM. CONCRETE) THICKNESS:   |          |      |            |  |
|   | 4"   |          | SY   | \$12.00    |  |
|   | 6"   |          | SY   | \$18.00    |  |
|   | 8"   |          | SY   | \$23.00    |  |
|   | 10"  |          | SY   | \$30.00    |  |
|   | 6" x 8" CURB/GUTTER (CONCRETE)   |          | LF   | \$17.00    | INCLUDES CURB & GUTTER AND STEEL FORMS   |
| 852XX   | SIDEWALK & OTHER PAVEMENTS   |          |      |            | INCLUDES VEHICLE PARKING AREAS, PEDESTRIAN WALKWAYS, ETC. SEE CATCODE 851XX FOR DRIVEWAYS & ROADS                        |
| 85220   | SIDEWALKS & WALKWAYS   |          |      |            |  |
|   | 4" CONCRETE CAST IN PLACE, NO BASE   |          | SF   | \$4.50     | INCLUDES GRADING & FORMING   |
|   | 2-1/2" ASPHALT CONCRETE  |          | SF   | \$2.10     |  |
| 86010   | RAILROAD TRACKS W/TIES AND BALLAST   |          | LF   | \$322.10   | STANDARD GAUGE RAILROAD, STEEL TIES IN CONC W/ 100# RAIL, FASTNERS & PLATES COMPLETE. PARALLEL TRACKS COUNTED SEPARATELY |
| 87110   | STORM SEWER  |          | LF   |            | SEE CHART A  |
| 87210   | FENCING & WALLS  |          |      |            |  |
|   | CHAIN LINK:  |          |      |            | 9 GAUGE GALVANIZED STEEL   |
|   | 6 FT HIGH  |          | LF   | \$20.00    | TYPE A (9 GA) INCLUDES 3 STRAND BARBED WIRE  |
|   | 8 FT HIGH  |          | LF   | \$24.00    |  |
|   | 10 FT HIGH   |          | LF   | \$29.00    |  |
| 87250   | ENTRANCE GATES   |          |      |            |  |
|   | 4' WIDE, SINGLE SWING, 6' HIGH W/ GATE POSTS                                       |          | EA   | \$327.00   |  |
|   | 12' WIDE, SINGLE SWING, 6' HIGH W/ GATE POSTS                                      |          | EA   | \$901.00   | FOR MOTOR OPERATED (SWING) ADD \$2,000   |
|   | 24' WIDE, SWING GATE - DOUBLE, 6' HIGH   |          | EA   | \$1,574.00 | FOR MOTOR OPERATED (SWING) ADD \$3,150   |
|   | 36' WIDE, SLIDING GATE - DOUBLE, 8' HIGH   |          | EA   | \$2,166.00 | FOR MOTOR OPERATED (SLIDE) ADD \$4,410   |
| 88110   | AUTOMATIC WATER SPRINKLER SYSTEMS (2,000 SF, PROTECTED AREA ONLY, INCL GATE VALVE) |          |      |            |  |

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| NOTE: The Support Facilities Unit Costs below are for guidance only. Adjustments to these unit costs are allowed when local cost data are available and provided with back-ups. |  |          |             |            |  |
| CATEGORY  | ITEM   | QUANTITY | UNIT        | UNIT COST  | REMARK   |
|   |  |          |             | \$/UNIT    |  |
|   | WET PIPE   |          | SF          | \$4.30     | PROTECTED AREA ONLY  |
|   | DRY PIPE   |          | SF          | \$4.80     | PROTECTED AREA ONLY  |
|   | DELUGE   |          | SF          | \$6.40     | PROTECTED AREA ONLY, EXCLUDES DELUGE VALVE, PUMPING ELEVATED WATER STG, & EXTERIOR PIPING  |
| 89240   | FIRE HYDRANTS, STANDARD 6' DEPTH   |          | EA          | \$3,227.00 | INCL EXCAVATION & BACKFILL, 4-1/2" CUTOFF VALVE, PIPING & CONNECTION TO MAIN LINE  |
| 93210   | SITE CLEARING & GRADING  |          |             |            |  |
|   | SITE CLEARING & GRUBBING   |          | AC          | \$4,193.00 | CLEAR & GRUB MEDIUM WOODED AREA, GRUB & REMOVE STUMPS & HAUL   |
|   | SITE CLEARING, MEDIUM  |          | SY          | \$0.60     | SUNDRY SURFACE ITEM CLEARING EXCL. WOODS & PAVING  |
|   | GRADING:   |          |             |            |  |
|   | ROUGH - LARGE OPEN AREA  |          | SY          | \$2.70     | AVG 2' C/F, SPREAD DUMP FILL, NO COMPACTION  |
|   | FINE   |          | SY          | \$1.30     | 3 PASSES WITH DOZER, COMPACTION  |
|   | BORROW, UNCLASSIFIED MATERIAL  |          | CY          | \$18.00    | BUY, LOAD AT PIT, UPTO 5-MILE RT HAUL, & SPREAD W/ DOZER   |
| 93220   | LANDSCAPE AND PLANTING   |          |             |            |  |
|   | TOPSOIL:   |          |             |            |  |
|   | HAUL & SPREAD  |          | CY          | \$21.00    | INCLUDES MATERIAL, TRANSPORT & PLACEMENT   |
|   | STRIP/STOCKPILE  |          | SY          | \$1.60     | 6" DEEP  |
|   | MULCHING:  |          |             |            |  |
|   | WOOD CHIPS   |          | SY          | \$2.70     | 2" DEEP  |
|   | GRASS:   |          |             |            |  |
|   | SEEDING  |          | SY          | \$0.80     | HYD W/FERTILIZER   |
|   | SODDING  |          | SY          | \$6.90     | 1" DEEP BLUE GRASS   |
| 93310   | DEMOLITION W/ DISPOSAL   |          |             |            |  |
|   | BUILDING: 10,000 SF, 10' EAVE HEIGHT, 25 MILES HAUL, NO DISPOSAL (DUMP) FEE INCLUDED. RECYCLE WILL REDUCE DISPOSAL COST:   |          |             |            | <b>NOTE:</b> ASBESTOS REMOVAL/DISPOSAL NOT INCLUDED. COST ESTIMATE FOR THIS WORK ITEM SHOULD BE BASED ON SITE SURVEY/EVALUATION AND LOCAL EXPERIENCE, AND SEPARATELY IDENTIFIED. |
|   | CONCRETE STRUCTURE   |          | PER BLDG SF | \$5.60     | FOUNDATION REMOVAL OR VALUE OF RECOVERED CONCRETE AGGREGATE FOR USE AS ENGINEERED BACKFILL NOT INCLUDED  |
|   | STEEL FRAME BUILDING   |          | PER BLDG SF | \$4.30     | FOUNDATION REMOVAL OR SALVAGE VALUE CREDIT FOR STEEL MEMBERS AND STEEL SCRAP NOT INCLUDED  |
|   | MASONRY BLDG   |          | PER BLDG SF | \$4.80     | FOR SIMPLE CONCRETE BLOCK CONSTRUCTION, NO FOUNDATION  |
|   | WOOD FRAME   |          | PER BLDG SF | \$3.60     | FOR POST AND BEAM OR STUD WALL   |
|   | CONCRETE SLAB 6" THICK (IF SEPARATE FROM BLDG)   |          | SF          | \$2.30     | 6 INCH THICK WITH TURNED DOWN FOOTING  |
|   | BUILDING INTERIOR  |          | SF          | \$0.00     | NOT REQUIRED FOR CONVENTIONAL DEMOLITION   |
|   | LEAD BASED PAINT (LPB) REMOVAL/DISPOSAL  |          | N/A         | \$0.00     |  |
|   | <b>NOTE:</b> LPB IS NOT REQUIRED TO BE ABATED PRIOR TO OR AS A PART OF THE BLDG DEMOLITION, UNLESS SPECIFICALLY REQUIRED IN COMPLIANCE WITH EM 385-1-1. UNLESS OTHERWISE RESTRICTED, MATERIALS COATED W/ LBP MAY BE PLACES IN THE INSTALLATION LANDFILL. |          |             |            |  |
|   | CONCRETE PAVEMENT, UPTO 4" THICK   |          | SY          | \$16.00    | 1.32/SF, INCLUDES 2" GRAVEL  |
|   | BITUMINOUS PAVEMENT, 2" THICK  |          | SY          | 15.00      | \$1.25/SF, INCLUDES 2" GRAVEL  |
| 93410   | CUT AND FILL   |          |             |            |  |
|   | EARTH:   |          |             |            |  |
|   | CUT & FILL, 200 HP DOZER, 300 FT HAUL  |          | CY          | \$8.20     | COMMON EARTH FILL & SPREAD   |

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| CATEGORY  | ITEM   | QUANTITY | UNIT | UNIT COST   | REMARK   |
| CODE  |  |          |      | \$/UNIT     |  |
|   | EXCAVATION, BULK DOZER   |          | CY   | \$8.80      | COMMON EARTH, HAULING 2 MILE ROUND TRIP  |
|   | EXCAVATION, TRENCH-MACHINE   |          | CY   | \$6.00      | 4 FT DEEP, 2 FT WIDE, MEDIUM SOIL  |
|   | EXCAVATION TRENCH-HAND   |          | CY   | \$46.00     | 2 TO 6 FT DEEP, MEDIUM SOIL  |
|   | BACKFILL-MACHINE   |          | CY   | \$7.00      | INCLUDES COMPACTION  |
|   | BACKFILL-HAND  |          | CY   | \$34.00     | INCLUDES COMPACTION  |
|   | ROCK:  |          |      |             |  |
|   | EXCAVATION ROCK, HARD  |          | CY   | \$89.00     | DRILL BLAST BY MACHINE   |
|   | EXCAVATION SHALE, MEDIUM   |          | CY   | \$48.00     | RIPPER DOZER AND LOAD  |
|   | EXCAVATION ROCK TRENCH-HAND  |          | CY   | \$149.00    | BY HAND /AIR TOOL  |
|   |  |          |      |             |  |
| 88040   | AT/FP VEHICULAR BARRICADES   |          |      |             |  |
|   | <b>Barrier Standards</b>   |          |      |             |  |
|   | <b>SD-STD-02.01</b> specifies perpendicular barrier impact by a <b>15,000 lb. (6810 kg)</b> vehicle<br><b>"K"</b> indicates the Dept of State certified barrier's maximum vehicle impact speed rating<br><b>"L"</b> indicates the test vehicle's distance of penetration upon impact with barrier  |          |      |             |  |
|   | <b>K12</b> = 50 mph (80 kph)<br><b>K8</b> = 40 mph (65 kph)<br><b>K4</b> = 30 mph (48 kph)   |          |      |             | <b>L3</b> = 3 ft. (915 mm)<br><b>L2</b> = 3 ft. to 20 ft. (915 mm to 6.1 m)<br><b>L1</b> = 20 ft. to 50 ft. (6.1 m to 15.3 m)  |
|   | <b>Note: Electrical connection costs are only included up to five feet from the unit. Additional electrical power requirements to be added separately. All active fixed barriers with a remote control panel include costs for barrier installation, safety loops, traffic arm, and traffic lights. CCTV, cameras, alarms, etc. not included with these costs.</b> |          |      |             |  |
|   | PORTABLE BEAM BARRICADE  |          | EA   | \$26,020.00 | RATED K4/L2, NO FDN REQUIRED, MOVE WITH FORKLIFT, STOPS 15,000 LB VEHICLE AT 30 MPH  |
|   | PORTABLE HYDRAULIC BARRICADE   |          | EA   | \$36,420.00 | TRANSPORTABLE RISING ROAD PLATE BARRICADE, SET UP WITH FORKLIFT, STOPS 15,000 LB VEHICLE AT 30 MPH   |
|   | PORTABLE HEDGEHOG BARRICADE  |          | EA   | \$3,122.00  | BARRICADE MADE OF PAINTED STRUCTURAL STEEL, REMOVABLE PNEUMATIC TIRES AND TOW BAR, 12' LONG  |
|   | WEDGE BARRICADE  |          | EA   | \$55,740.00 | 24" HIGH, 9' LONG, REMOTE CONTROL PANEL  |
|   | WEDGE BARRICADE  |          | EA   | \$62,440.00 | K4/L2 RATED, 30" HIGH, 9' LONG, REMOTE CONTROL PANEL, STOPS 15,000 LB VEHICLE AT 30 MPH  |
|   | HYDRAULIC RISING ROAD PLATE  |          | EA   | \$57,230.00 | PLATE RISES TO 18" HIGH, SURFACE MOUNTED, 12' LENGTH, REMOTE CONTROL PANEL, STOPS 15,000 LB VEHICLE AT 63 MPH  |
|   | HYDRAULIC WEDGE  |          | EA   | \$72,850.00 | K12/L2 RATED, 9' WIDE X 3'-2" HIGH, STOPS VEHICLE AT 50 MPH, ZERO PENETRATION  |
|   | HYDRAULIC RISING ROAD PLATE  |          | EA   | \$41,630.00 | PLATE RISES TO 18" HIGH, SURFACE MOUNTED, 10' LENGTH, 1" THICK STEEL PLATE, STOPS 6,000 LB VEHICLE AT 40 MPH   |
|   | HYDRAULIC RISING ROAD PLATE  |          | EA   | \$62,440.00 | K12/L2 RATED, PLATE RISES TO 39" HIGH, SURFACE MOUNTED, REMOTE CONTROL PANEL, STOPS 15,000 LB VEHICLE AT 70 MPH  |
|   | RISING ROAD PLATE  |          | EA   | \$57,230.00 | K12/L2 RATED, PLATE RISES TO 18" HIGH, SURFACE MOUNTED, REMOTE CONTROL PANEL, STOPS 15,000 LB VEHICLE AT 63 MPH  |
|   | RISING ROAD PLATE  |          | EA   | \$59,320.00 | K12/L2 RATED, PLATE RISES TO 39" HIGH, SHALLOW FOUNDATION TO 18" DEPTH, 9' LENGTH, STOPS 15,000 LB VEHICLE AT 50 MPH   |
|   | POP-UP BOLLARD SYSTEM  |          | EA   | \$52,170.00 | K4/L2 RATED, HYDRAULIC OR PNEUMATIC, SET OF THREE BOLLARDS, 13.25" DIA, 35" HIGH   |
|   | POP-UP BOLLARD SYSTEM  |          | EA   | \$54,250.00 | K12/L2 RATED, HYDRAULIC, REMOTE CONTROL PANEL, 35" HIGH, 15.25" DIA, STOP-GO SIGNAL ARMS AND LIGHTS, SUMP PUMPS, STOPS 15,000 LB VEHICLE AT 50 MPH, ADD \$10,000 FOR EACH ADDL BOLLARD UP TO FIVE ADDL |

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| CATEGORY<br>CODE | ITEM  | QUANTITY | UNIT | UNIT COST   | REMARK  |
|------------------|---|----------|------|-------------|---|
|                  |   |          |      | \$/UNIT     |   |
|                  | POP-UP BOLLARD SYSTEM   |          | EA   | \$52,170.00 | HYDRAULIC, SET OF THREE BOLLARDS, 8.63" DIA, 24" HIGH, REMOTE CONTROL PANEL, ADD \$5,000 FOR EACH ADDL BOLLARD UP TO SEVEN ADDL   |
|                  | POP-UP BOLLARD SYSTEM   |          | EA   | \$67,810.00 | K4/L2 RATED, HYDRAULIC, SET OF THREE BOLLARDS, 13.25" DIA, 35" HIGH, REMOTE CONTROL PANEL, STOP-GO SIGNAL ARMS AND LIGHTS, SUMP PUMPS, STOPS 15,000 LB VEHICLE AT 30 MPH  |
|                  | POP-UP BOLLARD SYSTEM   |          | EA   | \$62,610.00 | K8/L2 RATED, HYDRAULIC, SET OF THREE BOLLARDS, 12.25" DIA, 35" HIGH, REMOTE CONTROL PANEL, STOP-GO SIGNAL ARMS AND LIGHTS, SUMP PUMPS, STOPS 15,000 LB VEHICLE AT 40 MPH  |
|                  | MANUAL POP-UP BOLLARD SYSTEM                                    |          | EA   | \$5,217.00  | K4/L2 RATED, COUNTER BALANCED MANUAL LIFT, 10.75" DIA, 30" HIGH   |
|                  | MANUAL POP-UP BOLLARD SYSTEM                                    |          | EA   | \$4,173.00  | 24" HIGH, STOPS 10,000 LB VEHICLE AT 48 MPH AND STOPS 13,200 LB VEHICLE AT 38 MPH   |
|                  | CRASH BEAM BARRICADE  |          | EA   | \$46,950.00 | K4/L2 RATED, HYDRAULIC, CONCRETE BOLLARD MOUNTED, REMOTE CONTROL PANEL, STOPS 15,000 LB VEHICLE AT 30 MPH   |
|                  | CRASH CABLE BEAM BARRICADE SWING GATE, MANUALLY OPERATED        |          | EA   | \$12,520.00 | K4/L2 RATED, MANUAL HORIZONTAL SWING CRASH BEAM BARRIER, CONCRETE BOLLARD MOUNTED, STOPS 10,000 LB VEHICLE AT 15 MPH  |
|                  | CABLE BEAM BARRICADE, HYDRAULIC                                 |          | EA   | \$41,730.00 | K4/L2 RATED, HYDRAULIC, CONCRETE BOLLARD MOUNTED, STOPS 10,000 LB VEHICLE AT 15 MPH   |
|                  | CRASH BEAM BARRICADE, HYDRAULIC                                 |          | EA   | \$52,170.00 | K4/L2 RATED, HYDRAULIC, CONCRETE BOLLARD MOUNTED, STOPS 15,000 LB VEHICLE AT 30 MPH   |
|                  | SLIDING LINEAR CRASH GATE                                       |          | EA   | \$64,690.00 | K4/L2 RATED, 9' HIGH x 12' WIDE CLEAR OPENING GATE WITH GROUND TRACK, LINEAR GATE OPERATOR, REMOTE CONTROL PANEL, STOP-GO SIGNAL LIGHTS, STOPS 15,000 LB VEHICLE AT 50 MPH  |
|                  | MANUAL CRASH SWING GATE   |          | EA   | \$15,650.00 | 9' HIGH x 12' WIDE CLEAR OPENING GATE   |
|                  | HYDRAULIC ROLLING CRASH GATE                                    |          | EA   | \$50,080.00 | 9' HIGH x 12' WIDE CLEAR OPENING GATE, GATE LEAF LINEAR SLIDE ASSEMBLY, DRIVE SIDE GATE LEAF SUPPORTS AND GUIDES, LINEAR GATE OPERATOR, HYDRUALIC PUMP DRIVEN RACK AND PINION OPERATOR, REMOTE CONTROL PANEL, STOP-GO SIGNAL LIGHTS   |
|                  | SLIDING CANTILEVER CRASH GATE                                   |          | EA   | \$55,290.00 | 9' HIGH x 12' WIDE CLEAR OPENING GATE, GATE LEAF LINEAR SLIDE ASSEMBLY, DRIVE SIDE GATE LEAF SUPPORTS AND GUIDES, LINEAR GATE OPERATOR, HYDRUALIC PUMP DRIVEN RACK AND PINION OPERATOR, REMOTE CONTROL PANEL, STOP-GO SIGNAL LIGHTS. THIS GATE DOES NOT NEED TRACKS, WHEELS, OR ROLLER PATH |
|                  | PASSIVE VEHICLE BARRIER, SURFACE MOUNTED SABRE TOOTH CONTROLLER |          | EA   | \$626.00    | SURFACE MOUNTED TIRE SPIKES, 3' WIDE, MANUALLY OPERATED   |

**Unit Costs for Army Facilities  
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| CHART A To Appendix A, Part II PIPING - SITEWORK UTILITIES (Catcodes 82410, 83210, 84210, 87110) |      |                           |                                  |                |      |                   |                 |
|--|------|---------------------------|----------------------------------|----------------|------|-------------------|-----------------|
| SIZE in INCHES   | UNIT | BLACK STEEL U/C           | Notes                            | SIZE in INCHES | UNIT | PVC U/C 2008      |                 |
| 1  | LF   | \$12.50                   | BLACK STEEL, SCHEDULE 40, WELDED | 1              | LF   | \$6.60            |                 |
| 2  | LF   | \$18.10                   |                                  | 2              | LF   | \$9.90            |                 |
| 3  | LF   | \$22.40                   |                                  | 3              | LF   | \$13.00           |                 |
| 4  | LF   | \$27.60                   |                                  | 4              | LF   | \$19.60           |                 |
| 6  | LF   | \$34.00                   |                                  | 6              | LF   | \$25.50           |                 |
| 10   | LF   | \$74.10                   |                                  | 10             | LF   | \$32.10           |                 |
| 12   | LF   | \$105.90                  |                                  |                |      |                   |                 |
| 18   | LF   | \$139.70                  |                                  |                |      |                   |                 |
| 24   | LF   | \$237.60                  |                                  |                |      |                   |                 |
|  |      |                           |                                  |                |      |                   |                 |
| SIZE in INCHES   | UNIT | CORRUGATED METAL U/C 2008 |                                  | SIZE in INCHES | UNIT | HDPE U/C 2008     |                 |
|  |      |                           | CORRUGATED METAL PIPING          | 4              | LF   | \$8.20            |                 |
| 6  | LF   | \$11.40                   |                                  | 6              | LF   | \$13.80           |                 |
| 10   | LF   | \$17.70                   |                                  | 10             | LF   | \$20.00           |                 |
| 12   | LF   | \$21.10                   |                                  | 12             | LF   | \$26.90           |                 |
| 18   | LF   | \$29.70                   |                                  | 18             | LF   | \$50.50           |                 |
| 24   | LF   | \$49.50                   |                                  | 24             | LF   | \$82.40           |                 |
| 36   | LF   | \$81.80                   |                                  |                |      |                   |                 |
| 60   | LF   | \$207.10                  |                                  |                |      |                   |                 |
| SIZE in INCHES   | UNIT | DUCTILE IRON U/C          |                                  | SIZE in INCHES | UNIT | CONCRETE          |                 |
|  |      |                           |                                  |                |      | PLAIN             | REINF           |
| 4  | LF   | \$21.00                   |                                  |                |      |                   |                 |
| 6  | LF   | \$23.90                   |                                  | 6              | LF   | \$15.70           |                 |
| 10   | LF   | \$42.00                   |                                  | 10             | LF   | \$18.30           |                 |
| 12   | LF   | \$53.50                   |                                  | 12             | LF   | \$20.30           | \$26.30         |
| 18   | LF   | \$93.90                   |                                  | 18             | LF   | \$32.20           | \$37.20         |
| 24   | LF   | \$126.40                  |                                  | 24             | LF   | \$37.20           | \$48.20         |
|  |      |                           |                                  | 36             | LF   |                   | \$122.60        |
|  |      |                           |                                  | 60             | LF   |                   | \$191.20        |
| SIZE in INCHES   | UNIT | REINFORCED PLASTIC U/C    |                                  | SIZE in INCHES | UNIT | VITRIFIED CLAY    |                 |
|  |      |                           |                                  |                |      | STANDARD STRENGTH | STD STRENGTH 06 |
| 3  | LF   | \$10.80                   |                                  |                |      |                   |                 |
| 4  | LF   | \$19.50                   |                                  | 4              | LF   | \$7.80            | \$9.00          |
| 6  | LF   | \$23.80                   |                                  | 6              | LF   | \$10.90           | \$12.00         |
| 10   | LF   | \$54.10                   |                                  | 10             | LF   | \$19.20           | \$22.30         |
| 12   | LF   | \$66.30                   |                                  | 12             | LF   | \$22.90           | \$25.30         |
|  |      |                           |                                  | 18             | LF   | \$49.90           | \$60.80         |
|  |      |                           |                                  | 24             | LF   | \$101.70          | \$121.20        |
|  |      |                           |                                  | 36             | LF   | \$207.40          | \$231.00        |

**CHART A To Appendix A, Part II PIPING - SITEWORK UTILITIES**

NOTES:

1. Black Steel, schedule 40, welded.
2. Corrugated metal piping, galvanized 16 gage up to 18", 14 gage for 24", 12 gage up to 60".
3. Ductile iron, cement lined, class 50 water pipe, 18' in length, and mechanical joint.
4. Reinforced Plastic, fiberglass reinforced, plain end pipe.
5. PVC, schedule 40, Class 150 pipe.
6. Cost includes furnishing and installing pipe only. Trenching, bedding, backfill and compaction must be added to these costs.
7. For cathodic protection (if required), add 14% of total piping cost.



**UNIT COSTS for ARMY FACILITIES**  
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**CHART B**

**SOLAR ENERGY SYSTEM COST ESTIMATING\***

| BUILDING AREA ** (SQ. FT.) |            | SOLAR SYSTEM COST (\$)                   |
|----------------------------|------------|--|
| -----                      |            | -----                                    |
| UP TO                      | 15000.00   | \$4.79 per sq. ft. *** plus \$36,000.00  |
| 15001                      | 50000.00   | \$3.37 per sq. ft. *** plus \$52,000.00  |
| 50001                      | AND LARGER | \$1.73 per sq. ft. *** plus \$143,000.00 |

\* Include solar collection panels, water supply, pumps, pipelines and expansion tank

\*\* Include only heated and/or cooled portions of facilities.

\*\*\* Resulting dollar figure rounded up to next thousand dollar figure.

**UNIT COSTS for ARMY FACILITIES**  
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**CHART C. METRIC/ENGLISH SYSTEMS**

| <b>QUANTITY</b>              | <b>FROM</b>        | <b>MULTIPLY BY</b>  | <b>TO OBTAIN</b>    |                  |
|------------------------------|--------------------|---------------------|---------------------|------------------|
| LENGTH                       | inch               | 25.400000           | millimeter          |                  |
|                              | foot               | 0.304800            | meter               |                  |
|                              | yard               | 0.914400            | meter               |                  |
|                              | mile (U.S. Status) | 1.609344            | kilometer           |                  |
|                              | millimeter         | 0.039370            | inch                |                  |
|                              | meter              | 3.280840            | foot                |                  |
|                              | meter              | 1.093613            | yard                |                  |
|                              | kilometer          | 0.621370            | mile                |                  |
| AREA                         | square inch        | 645.160300          | square millimeter   |                  |
|                              | square foot        | 0.092903            | square meter        |                  |
|                              | square yard        | 0.836127            | square meter        |                  |
|                              | square mile        | 2.589998            | square kilometer    |                  |
|                              | acre               | 4046.873000         | square meter        |                  |
|                              | acre               | 0.404687            | hectare             |                  |
|                              | square millimeter  | 0.001550            | square inch         |                  |
|                              | square meter       | 10.763910           | square foot         |                  |
|                              | square meter       | 1.195990            | square yard         |                  |
|                              | square kilometer   | 0.386101            | square mile         |                  |
|                              | square meter       | 0.000247            | acre                |                  |
|                              | hectare            | 2.471044            | acre                |                  |
|                              | VOLUME             | cubic inch          | 16387.060000        | cubic millimeter |
|                              |                    | cubic foot          | 0.028316            | cubic meter      |
| cubic yard                   |                    | 0.764555            | cubic meter         |                  |
| gallon (U.S. liquid)         |                    | 3.785412            | liter               |                  |
| quart (U.S. liquid)          |                    | 0.946353            | liter               |                  |
| cubic millimeter             |                    | 0.000061            | cubic inch          |                  |
| cubic meter                  |                    | 35.314662           | cubic foot          |                  |
| cubic meter                  |                    | 1.307951            | cubic yard          |                  |
| liter                        |                    | 0.264172            | gallon              |                  |
| liter                        |                    | 1.056688            | quart               |                  |
| MASS                         |                    | ounce (avoirdupois) | 28.349520           | gram             |
|                              |                    | pound (avoirdupois) | 0.453592            | kilogram         |
|                              | short ton          | 907.185000          | kilogram            |                  |
|                              | gram               | 0.035273            | ounce               |                  |
|                              | kilogram           | 2.204622            | pound               |                  |
|                              | kilogram           | 0.001102            | short ton           |                  |
| <b>ENERGY, HEAT AND WORK</b> |                    |                     |                     |                  |
| ENERGY, HEAT AND WORK        | kilowatthour       | 3.600000            | megajoule           |                  |
|                              | btu                | 1.055056            | kilojoule           |                  |
|                              | horsepower hour    | 2.684520            | megajoule           |                  |
|                              | megajoule          | 0.277780            | kilowatthour        |                  |
|                              | kilojoule          | 0.947817            | btu                 |                  |
|                              | megajoule          | 0.372506            | horsepower hour     |                  |
|                              | POWER              | ton (refrigeration) | 3.517000            | kw               |
|                              |                    | btu/s               | 1.055056            | kw               |
| hp (electric)                |                    | 745.700000          | w                   |                  |
| btu/h                        |                    | 0.293071            | w                   |                  |
| kw                           |                    | 0.284333            | ton (refrigeration) |                  |
| kw                           |                    | 0.947817            | btu/s               |                  |
| w                            |                    | 0.001341            | hp (electric)       |                  |
| w                            |                    | 3.412141            | btu/h               |                  |

**APPENDIX C To TM 5-800-4  
TRI-SERVICE MILITARY CONSTRUCTION PROGRAM (MCP) INDEX  
FOR FY 2009 THRU FY 2014 PROGRAMS**

| <u>FISCAL YEAR (FY)</u> | <u>DATES</u>       | <u>INDEX</u> | <u>ESCALATION PERCENTAGE FOR FISCAL YEAR</u> |
|-------------------------|--------------------|--------------|--|
| <b>FY 2007</b>          | <b>1-Oct- 2006</b> | <b>2354</b>  |  |
|                         | 1-Jan- 2007        | 2367         | <b>FY 07</b>                                 |
|                         | 1-Apr- 2007        | 2380         | <b>2.2%</b>                                  |
|                         | 1-Jul- 2007        | 2393         |  |
| <b>FY 2008</b>          | <b>1-Oct- 2007</b> | <b>2406</b>  |  |
|                         | 1-Jan- 2008        | 2419         | <b>FY 08</b>                                 |
|                         | 1-Apr- 2008        | 2430         | <b>2.0%</b>                                  |
|                         | 1-Jul- 2008        | 2442         |  |
| <b>FY 2009</b>          | <b>1-Oct- 2008</b> | <b>2454</b>  |  |
|                         | 1-Jan- 2009        | 2467         | <b>FY 09</b>                                 |
|                         | 1-Apr- 2009        | 2479         | <b>2.0%</b>                                  |
|                         | 1-Jul- 2009        | 2491         |  |
| <b>FY 2010</b>          | <b>1-Oct- 2009</b> | <b>2503</b>  |  |
|                         | 1-Jan- 2010        | 2516         | <b>FY 10</b>                                 |
|                         | 1-Apr- 2010        | 2528         | <b>2.0%</b>                                  |
|                         | 1-Jul- 2010        | 2541         |  |
| <b>FY 2011</b>          | <b>1-Oct- 2010</b> | <b>2553</b>  |  |
|                         | 1-Jan- 2011        | 2566         | <b>FY 11</b>                                 |
|                         | 1-Apr- 2011        | 2579         | <b>2.0%</b>                                  |
|                         | 1-Jul- 2011        | 2592         |  |
| <b>FY 2012</b>          | <b>1-Oct- 2011</b> | <b>2604</b>  |  |
|                         | 1-Jan- 2012        | 2617         | <b>FY 12</b>                                 |
|                         | 1-Apr- 2012        | 2630         | <b>2.0%</b>                                  |
|                         | 1-Jul- 2012        | 2643         |  |
| <b>FY 2013</b>          | <b>1-Oct- 2012</b> | <b>2656</b>  |  |
|                         | 1-Jan- 2013        | 2670         | <b>FY 13</b>                                 |
|                         | 1-Apr- 2013        | 2683         | <b>2.0%</b>                                  |
|                         | 1-Jul- 2013        | 2696         |  |
| <b>FY 2014</b>          | <b>1-Oct- 2013</b> | <b>2709</b>  |  |

**Notes**

1. Use **2.0%** per fiscal year for projection beyond FY **2014**
2. Tri - Service MCP Index (1,000) = 1 October 1979 ENR Historical Building Cost Index (1,900)
3. The MCP indexes after 1 Oct 2007 were derived based on the Price Escalation Indices (Annual Rates in Percentages) for Budget Authority published in the Memorandum, dated 23 January 2008, from the Under Secretary of Defense (Comptroller), Subject: Inflation Guidance - Fiscal Year (FY) 2009 -10 President's Budget.
4. This revised index table supersedes the index table published on **15 March 2007**

**UNIT COSTS for ARMY FACILITIES**  
**PAX Newsletter 3.2.2, Dated 11 Feb 2008**

**TABLE I - SIZE ADJUSTMENT FACTORS**

**PART I - BUILDING (OTHER THAN BARRACKS & FAMILY HOUSING)**

| SIZE RATIO | ADJUST FACTOR | SIZE RATIO | ADJUST FACTOR | SIZE RATIO | ADJUST FACTOR | SIZE RATIO | ADJUST FACTOR |
|------------|---------------|------------|---------------|------------|---------------|------------|---------------|
| < 0.05     | 1.2750        | 0.9000     | 1.0110        | 1.8000     | 0.9490        | 2.7000     | 0.9250        |
| 0.0500     | 1.2750        | 0.9500     | 1.0050        | 1.8500     | 0.9470        | 2.7500     | 0.9240        |
| 0.1000     | 1.2690        | 1.0000     | 1.0000        | 1.9000     | 0.9450        | 2.8000     | 0.9240        |
| 0.1500     | 1.2320        | 1.0500     | 0.9950        | 1.9500     | 0.9430        | 2.8500     | 0.9230        |
| 0.2000     | 1.2020        | 1.1000     | 0.9900        | 2.0000     | 0.9420        | 2.9000     | 0.9220        |
| 0.2500     | 1.1750        | 1.1500     | 0.9860        | 2.0500     | 0.9400        | 2.9500     | 0.9210        |
| 0.3000     | 1.1520        | 1.2000     | 0.9820        | 2.1000     | 0.9390        | 3.0000     | 0.9210        |
| 0.3500     | 1.1320        | 1.2500     | 0.9780        | 2.1500     | 0.9370        | 3.0500     | 0.9200        |
| 0.4000     | 1.1140        | 1.3000     | 0.9740        | 2.2000     | 0.9360        | >3.05      | 0.9200        |
| 0.4500     | 1.0980        | 1.3500     | 0.9710        | 2.2500     | 0.9350        |            |               |
| 0.5000     | 1.0840        | 1.4000     | 0.9680        | 2.3000     | 0.9330        |            |               |
| 0.5500     | 1.0720        | 1.4500     | 0.9650        | 2.3500     | 0.9320        |            |               |
| 0.6000     | 1.0600        | 1.5000     | 0.9620        | 2.4000     | 0.9310        |            |               |
| 0.6500     | 1.0500        | 1.5500     | 0.9600        | 2.4500     | 0.9300        |            |               |
| 0.7000     | 1.0410        | 1.6000     | 0.9570        | 2.5000     | 0.9290        |            |               |
| 0.7500     | 1.0330        | 1.6500     | 0.9550        | 2.5500     | 0.9280        |            |               |
| 0.8000     | 1.0250        | 1.7000     | 0.9530        | 2.6000     | 0.9270        |            |               |
| 0.8500     | 1.0180        | 1.7500     | 0.9510        | 2.6500     | 0.9260        |            |               |

NOTE: Size ratio is determined by dividing the proposed building size by the average size shown in Part I of Appendix A. To determine the size adjustment factor, use the closest size ratio from above table.

**PART II - PROJECT SIZE ADJUSTMENTS FOR BARRACKS/FAMILY HOUSING**

| MILITARY FAMILY HOUSING<br>PROJECT SIZE ADJUSTMENT FACTORS |                     | BARRACKS/<br>DORMITORIES<br>PROJECT SIZE ADJUSTMENT FACTORS |                     |
|--|---------------------|---|---------------------|
| NUMBER OF UNITS in the project                             | PROJECT SIZE FACTOR | NUMBER OF ROOMS in the project                              | PROJECT SIZE FACTOR |
| 1-9  | 1.25                | 1-99  | 1.07                |
| 10-19  | 1.15                | 100-149   | 1.03                |
| 20-49  | 1.10                | 150-199   | 1.00                |
| 50-99  | 1.04                | 200-299   | 0.97                |
| 100-199  | 1.00                | 300+  | 0.95                |
| 200-299  | 0.93                |   |                     |
| 300+   | 0.90                |   |                     |