

ARMY FACILITIES PRICING GUIDE, PAX NEWSLETTER 3.2.2, Dated 5 May 2013

**Part I and II (Building and Support Facilities)**

This Newsletter Supersedes the PAX Newsletter No. 3.2.2, dated 18 Mar 2012, and updates Primary & Support Facilities Unit Cost Tables, Tri-Service Military Construction Program (MCP) Index, and Table-1, Size Adjustment Factors that used to be contained in presently deleted TM 5-800-4, Programming Cost Estimates for Military Construction, dated May 1994. These costs will be used as a guide for preparation and/or review of Budget Submission of the FY15 Army Military Construction (MCA) and Army Family Housing (AFH) projects' parametric cost estimates, ENG3086, etc, unless otherwise noted. This Newsletter is published and maintained on the web page at:

<http://www.usace.army.mil/CostEngineering/ProgrammingAdministrationandExecutionSystemNe.aspx>

A. PART-I – PRIMARY FACILITIES UNIT COSTS, dated 2 MAY 2013

A.1. Most of the costs are based on historic construction award data from FY 2010-12 projects entered into the Historic Analysis Generator (HII) database by 1 Jan 2013. In instances, where at least 3 recently awarded (2010-12) project data for a facility-type are not available/entered in the HII database, last 4-years' (2009-2012) award data were considered. Only new construction projects in the Continental United States (CONUS), to include projects in Hawaii and Alaska, were utilized to develop facility specific unit costs, except for Family Housing and DoD Schools where OCONUS projects were also considered. Renovation and addition-alteration projects were not included in the database.

A.2. Each facility-specific bid data were normalized to 5 bidders reflecting the current bidding trend, Area Cost Factor of 1.0, Reference size, and 1 Oct 2012 price level using the actual construction inflation index. Unit Costs in the PAX Newsletter Table are escalated to 1 Oct 2015, the assumed mid-point of construction for a typical FY 2015 MILCON project using the Military Construction Program (MCP) Index.

A.3. Facilities with PAX Newsletter guidance unit costs are assumed to include the costs of the following features/requirements. Therefore NO Separate Line Item shall be added for the following features:

- a. AT-FP features inside the building, when minimum set back/stand-off distance is achieved,
- b. Building Information Systems (e.g. conduits, racks, trays, telecommunication rooms) for facilities without any Special Communications Requirements,
- c. Energy Management Control System (EMCS) Connection,
- d. Intrusion Detection System (IDS) infrastructure, to include conduits, racks and trays,
- e. Sustainable Design and Development features for criteria in effect from September 2007 thru September 2010 (e.g. LEED Silver Rating, Energy Policy Act of 2005, etc),
- f. Built-in Equipment and furnishings normally funded by MILCON funds,
- g. Uncomplicated Strip/Spread-footing type foundation. Any Special Foundations, such as Pile Foundations and Structural Fill cost should be listed separately,
- h. Contractor's mark-ups for overhead, and profit
- i. An average sales tax on building materials.

A.4. PAX Guidance Unit costs do NOT generally include the following feature/requirement costs. Therefore, these costs are to be added as a Separate Line Item(s) in the budget estimate:

- a. Inside the building AT-FP features when minimum stand-off distance cannot be achieved or when enhanced AT-FP features are required due to the height of the building, such as for 3 or more storied buildings when the past designs did not require Progressive Collapse measures. Progressive Collapse premium for 3 or higher storied Standard Designs that have been previously built, e.g., barracks/dormitories, are assumed to be built-into the award data.
- b. Specialized/Secured Building Information System costs
- c. Sustainable Design and Development features for criteria mandated since September 2011,
- d. Inside the building or Built-in Renewable and alternative Energy features (e.g. roof mounted Solar Panels)
- e. Special Foundation cost, e.g. cost of pre-stressed concrete Pile foundation or Structural Fill,
- f. Special Architectural features to comply with the Historic Preservation Guidelines
- g. Equipment acquired with non-MILCON fund sources, e.g., intrusion detection systems,
- h. Construction Contingency and Supervision, Inspection, and Overhead (SIOH) allowances,
- i. Design-Build Design Cost,
- j. State imposed Gross Receipt Taxes (also referred to as General Exercise Tax),
- k. Construction Cost Growth resulting from Unforeseen Site Conditions, Change Orders, Contract document Errors and/or omissions, or Unusual Market Conditions.

A.5. User Generated Unit Costs (UGUC): User Generated Unit costs may be used when PAX UC is not available or when it is not completely applicable for the project. UGUC requires an explanation of how the unit cost was derived. When UGUC is used NO adjustments for ACF, size adjustment, and escalation shall be made for all line items in the cost estimate that are based on UGUC. The ACF and Size Adjustment Factor shall set as 1 in PC-Cost/ENG3086 software.

A. 6. Reference or Standard Size shown in Part-I, Table may or may not be identical to the size/sizes listed in the Center of Standardization (COS) websites. Table-1, Size Adjustment Factor, which shows correlation between project size and construction cost, should be used to determine the appropriate project cost.

A.7. PAX listed Unit costs are escalated to 1 Oct 2015. Appendix-C, Tri-Service Military Construction Program (MCP) Index should be used for determining Cost Escalation Factor when a project's mid-point of construction is different than 1 Oct 2015, as follows:

Anticipated Midpoint of Construction for given project = 1 April 2016

MCP Indexes for 1 Oct 2015 and 1 Apr 2016 from Appendix-C are 2778 and 2805 respectively

Cost Escalation Factor = MCP Index, 1 Apr 16 / MCP Index, 1 Oct 15 = 2805/2778 = 1.0097

## B. PART-II – SUPPORT FACILITIES UNIT COSTS, dated 2 MAY 2013

B.1. Support Facilities unit costs are based upon National Average Davis Bacon wages and material pricing. The Area Cost Factor (ACF) for this database is 1.0. The Support Facility unit costs should be adjusted for the project location only when guidance unit costs are used; when local cost data (user generated cost data) is used, no ACF adjustments should be made.

B.2. All pricing includes the installing contractor's Overhead and Profit (O&P). General Contractor's mark-up is Not included. The installing contractor's O&P includes the following factors:

- a. Employees wage rate and fringe benefits
- b. Workmen's compensation insurance
- c. Social Security and Federal and State Unemployment taxes
- d. Contractor's Overhead (11%) and Profit (10%)
- e. Data incorporates an average 6% Sales Tax.

CONTACT: Point of Contact (POC) for this Newsletter can be reached at Headquarters, US Army Corps of Engineers (HQUSACE) by phone, (202)-761-7503; alternate POC, (202)-761-5887.

**Unit Costs for the ARMY Facilities - Military Construction Program (MILCON)  
PAX Newsletter 3.2.2, dated 2 May 2013**

<b>PRIMARY FACILITIES UNIT COST (UC) TABLE - Final version (PART - I, Buildings)</b>					
Facility Unit Costs (UC) are based on the Most Recent 3-Year (2010-12) Bid Results, when at least 3 Projects were entered into the HII database by 1 Nov 2012. All UC's below represent the average of award prices, escalated to 1 Oct 2015, the assumed Mid-point of Construction for a typical FY2015 MILCON project, using the Inflation Guidance for for FY2014 Presidents Budget published on 27 Feb 2013 and Normalized to an Area Cost Factor of 1. Please refer to the "Notes" in the Remarks column below for explanation.					
<u>CAT CODE</u>		<u>Avg size of Database or Std Size</u>	<u>Unit Of Measure (UOM)</u>	<u>Unit Cost \$/UOM</u>	<u>Remarks</u> Note-1: No data/Not enough usable Army Bid Data since 2009 to Forecast UC Note-2: Last year's UC escalated. Not enough projects awarded to forecast UC.
13115	Information Systems Facility	40,000	SF	208.00	
	Houses majority of Garrison level Info Management & Info Tech services plus associated admin Support & shop spaces				
13120	Communications Center	33,000	SF	320.00	
	Hub facility for Internal and External Communications, commercial telephone feeds, and environmental control requirements; DSN switching equipment. No shielding included.				
13120	Remote Switching Unit (RSU)	3000	SF	288.00	Commo. feeds & Switching equipment costs included in UC
13131	Information Processing Center	21,000	SF		See Note-1 above
	Also called Data processing Ctr. Houses personnel and equipment for data-processing; special temperature, humidity, environmental control requirements, raised flooring and security measures				
13181	Satellite Terminal Communications Station	6,000	SF	333.00	UC based on 2 projects only
13310	Flight Control Tower	7,000	SF	599.00	
14110	Airfield Operations (Ops) Building	12,000	SF	235.00	
	Houses flight operations and Airfield HQ functions with or w/o Flight Control Tower. May include passenger support facilities similar to a civilian air terminal. See catcode 13310 above for Flight Control Tower				
14112	Aviation Unit Ops Bldg at Airfield	18,000	SF	260.00	UC Based on 2 projects only. Ref size based on the avg. size of reported projects.
	Houses Aviation Unit HQ admin, training, and storage area				
14113	Security Access Facility - Mission Trng Complex	400	SF		See Range Facilities Complex Below
14113	Access Control Facility (ACF) Complex:				All reference sizes below are the average size of projects for each facility type
	Visitors Control Center	2,960	SF	311.00	
	Search Office	735	SF	482.00	
	Gatehouse	515	SF	887.00	
	Guardbooth	170	SF	XXX	See Note-1 above
	Search Area Canop - Truck	2,300	SF	144.00	Incl. cost of oversized foundations, hi-intensity lighting, does not incl pavement
14114	CIDC Field Operations Bldg	9,854	SF	XXX	See Note-1 above
14126	Kennel Facilities	8,450	SF	247.00	
14129	Training Aid Spt Ctr for Range Complex	varies	SF	See Range	See Unit Cost under Range Complex, catcode 14129
14132	Ready Building- Airfield Arrival/Depart Control Fac	XXX	SF	XXX	See Note-1 above
14161	Emergency Operations Ctr (EOC)		SF	XXX	See Note-1 above
14162	Sensitive Compartmented Info Fac	No Ref Size	SF	434.00	Possibly, this UC does not include full costs for ODNI-705 countermeasures criteria
14165	Vehicle Maintenance Wash Facility				Consists of Wash Bays, Pre-wash Control, Pump House, Grit & Oil Chamber, etc.
	Control Bld for Vehicle Wash Rack	480	SF	XXX	See Note-1 above
	Pump Bld for Vehicle Wash Rack	1,800	SF	XXX	See Note-1 above

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	Gravity Oil & Grease Separator	735	KGD	XXX	See Note-1 above
	Water & Grit Separator	6,950	KGD	XXX	See Note-1 above
<b>14179</b>	Overhead Protection/Canopy - General	10,600	SF	See Range	see COF Covered Hardstand (Canopy) below
<b>14182</b>	Brigade (BDE) Headquarters Bldg - Large	43,400	SF	<b>211.00</b>	Ref Size based on Large BDE HQ w/SCIF, 125-156 staff
	Use Size Adj Table-1, Part-1 to determine unit cost for other sizes (Small, Medium and X-Large) BDE HQs. UC does Not include new SCIF reqm cost				
<b>14183</b>	Battalion (BN) HQ Bldg w/Classrms	18,600		<b>230.00</b>	Ref Size based on Medium BN, 36-50 staff
	Use Size Adj Table-1, Part-1 to determine unit cost for other sizes (Small, Large and X-Large) BN HQs				
<b>14185</b>	COMPANY OPERATIONS FACILITY (COF)	varies	SF		COF Ref Size varies based on AM & RM configuration
	Admin & Readiness Modules are usually combined for small 1-Company (150 soldiers) or 2-CO (300 soldiers @150 PN/Company Units. For larger COFs, i.e., 3 or more companies, Admin (AM) and Readiness Modules (RM) are normally detached. RM storage space is fully conditioned and sprinklered for TA-50 Lockers and Arms Vault. The cost of contractor furnished and installed TA 50 Lockers are included in the UC. Admin and Readiness Modules will be programmed seperately in DD1391/ENG3086				
	Admin/Readiness - Integrated Module	49,500	SF	<b>181.00</b>	Ref size Based on the Average size of projects in HII for Integrated Module
	Admin Module (AM) -Detached	5,100	SF	<b>198.00</b>	Ref size Based on the Average size of projects in HII for a 1 Company AM
	Admin Module- Detached	16,600	SF	<b>180.00</b>	Ref size Based on the Average size of projects in HII for a 3-8 Company AM
	Readiness Module (RM) - Detached	34,000	SF	<b>157.00</b>	Ref size Based on the Average size of projects in HII for a 3-8 CO RM
<b>14179</b>	Canopy for Covered Hardstand, Large >6000+ SF	9,000	SF	<b>51.00</b>	Hardstand cover (canopies) for 3-CO COF canopies between 6000-12500 SF;
	Canopy for Covered Hardstand, small <6000 SF	4,000	SF	<b>61.00</b>	Hardstand cover (canopies) for COF canopies 3000 SF and less
	Includes the cost of Canopy, supporting posts and their foundation; excludes Hardstand (8" pavement) cost.				
<b>85210</b>	8"Conc. Pavement w/ 8"base - COF	varies	SY	<b>81.00</b>	Should be programmed under the Support Facility item
	COF Overhead Protection is a Pre-engineered Canopy w/lighting, power, and lightning protection over the equipment layout area. Standard COF contains 4 Overhead Protection canopies for a typical 2-150 Company & 2-200 CO COF.				
<b>14190</b>	Command & Control Fac (C2F)	143,090	SF	<b>223.00</b>	Formerly CC 61050
	Division and Corps Level Command & Control Bld for a all service components. C2F Bld contains 3 distinct functional elements, Admin, Emergency Network Operation, and SCIF spaces (does Not include new SCIF reqm cost ) The costs of raised flooring, redundant electrical/mechanical systems, and secured access system are included. C2F Bldg above Corps level is a non-standard facility.				
<b>14190</b>	Army Command (ACOM) Headquarters	varies	SF	XXX	See Note-1 above
<b>14955</b>	WASH PLATFORM/RACK - for Army Reserve Center				Based on all Army Reserve Center projects, limited data most records show LS cost
	Wash Rack <1000 SF	800	SF	<b>116.00</b>	Use this UC for 800 - 1000 SF Wash Racks
	Wash Rack >1000 SF	1,350	SF	<b>99.00</b>	Use this UC for 1001-1600 SF Wash Racks
<b>14960</b>	Grease Rack	1	EA	XXX	2 Vehicles - Low pressure w/Wash Water treatment
<b>14962</b>	Central Wash Facility, 16 Stations	1	EA	<b>8,603,800.00</b>	UC not normalized for size. Collocate CC-83180, Oil & Grease Separator
<b>14970</b>	Bi -Level Loading Ramp, Army Reserve Centers	1	EA	<b>77,650.00</b>	For Army Reserve Centers
<b>14970</b>	Ammo Loading Dock for Range	1	EA	See Range below	See CC 14970 under Range Complex, below

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14970	Vehicle Instrumentation Dock, 900 SF	1	EA	XXX	See Note-1 above
17120	General Instruction Bldg (GIB) -Not for Range	75,000	SF	198.00	Ref size Based on the Average size of projects in HII for non-Range GIB
	General Instruction Bldg for Range			See Range below	bldg. For Range Classroom Bld, catcode 17123, see below
Various	<u>RANGE FACILITIES COMPLEX</u>				
	A typical Range Complex consists of Target Emplacements/Firing Points, Range Ops and Control Area, and a number of vertical structures, such as, Control Tower, Range Ops & Storage Bld, Range Classroom Bld, Ammo Breakdown Bld, Field Latrines plus other covered (but not enclosed) structures, e.g. Covered Bleachers, Covered Mess, etc.				
14113	Security Access Fac - Mission Trng Complex	400	SF	445.00	Formerly, referred to as Battle Control Trng Ctr
14129	Training Aid/Support Center (TSC)	27,000	SF	145.00	
	Training Aid/Support Center (TSC)	75,000	SF	112.00	
	Training Aid/Support Ctr	124,630	SF		Use Size Adjustment Table this size using 75,000 SF TSC as the Ref Size
14970	Vehicle Instrumentation Dock, 900 SF	1	EA	XXX	See Note-1 above
14970	Ammo Loading Dock, 480 SF	1	EA	67,560.00	Not Covered. Loading Dock is programmed as 1 each.
17121	Indoor Firing Range	23,000	SF	239.00	
17122	Ammunition Breakdown Bldg	185	SF	511.00	
17122	Operations/Storage Bld - Small	800	SF	245.00	
17122	Operations/Storage Bld - Large	1800	SF	235.00	
17123	Range Classroom Building	800	SF	253.00	This is the same Bldg as the Gen Instruction Bldg- Range
17123	After Action Review Bld - Small	1,064	SF	240.00	Use Size Adj Table for 3024 SF AAR & 4176 SF ROC/AAR
17123	After Action Review Bld - Large	3,024	SF		Use Size Adj Table to determine this UC
17123	Combined ROC/AAR-Digital Range	4,176	SF	XXX	See Note-1 above
17139	Covered Mess - Range	800	SF	152.00	Includes hardstand cost below canopy
17139	Covered Mess - Service Schools	1413	SF		Use Size Adj Table to determine UC
17213	Mission Trng Complex (formerly BCTC)	85,630	SF	268.00	Use Size Adj Table for other sizes: 46,060 & 145,585 SF
17801	Basic 10-25m Firing Range (Zero)	FP	EA	Site Specific	Requires 32 Firing Points (FP)
17805	Automated Record Fire Range	FP	EA	Site Specific	Requires 16 FPs
17806	Modified Record Fire Range	FP	EA	Site Specific	Requires 16 FPs
17821	Combat Pistol/MP Firearms Qualifications	FP	EA	Site Specific	Requires 15 FPs
17878	Urban Assault Course	FP	EA	Site Specific	Requires 5 Stations. Each station represents one FP
	Five Stations are: Station 1 - Individual/Team Task; Station 2 - Squad/Platoon Task; Station 3 - Grenadier Gunnery;				
	Station 4 - Urban Offence/defense, and Station 5 - Underground Trainer				

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17879	Live Fire Exercise Shoothouse	FP	EA	Site Specific	<b>Note-1:</b> No data/Not enough usable Army Bid Data since 2009 to Forecast UC <b>Note-2:</b> Last year's UC escalated. Not enough projects awarded to forecast UC.
	Requires 10 FPs. Each room & corridor represents 1 FP. There are 8 rooms and 2 corridors in a standard shoothouse				
	<u>Range Control Towers (RCT)</u>				
	Open Observation decks, stairs, and walkways are calculated as half areas. Foundation cost is included in the Unit Cost.				
17971	Control Tower - Small	1	EA	269,750.00	Open Observation Deck, Std size 657 SF
17971	Control Tower - Medium	1	EA	XXX	Enclosed Observation Deck, Std size 802 SF; See Note-1 above
17971	Control Tower, Instrumented - Large	1	EA	XXX	Enclosed Observation Deck, Std size 1544 SF; See Note-1 above
73075	Field Latrine-Dry Type	330	SF	365.00	Aerated Vault
73075	Field Latrine-Wet Closet	550	SF	586.00	Water Closet. Not enough data, Last year's UC unchanged
75061	Covered Bleacher (Bleacher Enclosure)	1	EA	114,150.00	Standard Size 726 SF
75061	Covered Bleacher for Svc Schools	1	EA	XXX	See Note-1 Above. Standard size 1078 SF provided by COS
17120	Gen. Instruction Bldg (GIB) >50000 (not for Range)	75,000	SF	198.00	
	General Instruction Bldg for Range			See Range below	bldg. For Range Classroom Bld, catcode 17123, see above
17133	Vehicle Maint. Instructional Bldg	30,000	SF	XXX	See Note-1 above
17134	Aircraft Maint Instructional Bldg	20,000	SF	195.00	Based on 2 Records only
17135	Laboratory Instructions Bldg	9,000	SF	XXX	See Note-1 above
17136	Automation Aided Instruction Bldg	25,000	SF	218.00	Based on 2 Records only
17137	Material Handling Instructional Bldg	40,000	SF	XXX	See Note-1 above
17139	Covered Mess	800	SF	See Range	See Range Complex
17140	Army Reserve Center Bldg	48,000	SF	211.00	
17141	Armed Forces Reserve Center Bldg	48,000	SF	193.00	New Catcode for Reserve Ctr
17142	National Guard/Reserve Ctr Bldg	XXX	XX	XXX	See Note-1 above
17180	Army National Guard Readiness Ctr	48,000	SF		New Catcode for ARNG Readiness Ctr
17210	Flight Simulator Building	12,000	SF	337.00	Ref Size and the UC based on all USAF Simulator facilities records
17971	Control/Observation Tower	XXX	XX	See Range	See Range Complex
	<u>AIRCRAFT (AC) MAINT HANGARS</u>				
21110	Hangar - General Purpose, <40' ht	91,000	SF	224.00	Ref Size & UC based on DOD Guidance cost For FY15 MILCON
21110	Hangar - High Bay, >40' height	100,000	SF	253.00	Ref Size & UC based on DOD Guidance cost For FY15 MILCON
	<u>ARMY HANGAR STANDARDS- Rotary Wing AC Maint Hangars</u>				
	Standard Army Hangars contain a High Bay Maintenance area and, typically a two Storied space at the rear of the maintenance area containing Shop space at the lower level and Administrative spaces above.				
21110	Attack-Assault-Cavalry(AAC) BN, min eave ht 55'	XXX	SF	XXX	See Note-1 above. Current Std Des is being Revised, contact COS.

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					<b>Note-1:</b> No data/Not enough usable Army Bid Data since 2009 to Forecast UC <b>Note-2:</b> Last year's UC escalated. Not enough projects awarded to forecast UC.
21110	Aviation Support Battalion (ASB), 45-55' high	XXX	SF	XXX	See Note-1 above. Current Std Des is being Revised, contact COS.
21110	Gen Spt Aviation Battalion (GSAB), min. eave ht 55'	154,200	SF	258.00	
21115	Unmanned Aircraft Sys (UAS) Maint Hangar	52,100	SF	245.00	Ref Size and estimated UC provided by COS. New Standard.
21117	Aircraft Electronic-Avionics Maint Shop	16,000	SF	XXX	See Note-1 above
21120	Aircraft Component Repair Shop (Machine Shop)	32,000	SF	243.00	Ref size & UC based on DOD Guidance cost For FY15 MILCON
21130	Aircraft Paint/Corrosion Control Shop	36,000	SF	XXX	See Note-1 above
21140	Aircraft Engine Test facility	26,000	SF	XXX	See Note-1 above
<b>Varies</b>	<b>TACTICAL EQUIPMENT MAINT FACILITY (TEMF) COMPLEX</b>				For Track and Wheeled vehicles
	TEMF Complex includes Admin space, Repair & Maintenance shops and work-bays w/ overhead crane, arms/COMSEC vault, Storage areas, Deployment Storage bldg				
	POL Storage bldg, Tactical Vehicle Parking Apron, Hazard Waste Storage area,				
21409	Vehicle Maint Shop - Army Reserve	9,500	SF	230.00	Ref Size is based on the Avg size of the Dataset
21410	Small TEMF	18,400	SF	243.00	New COS TEMF Std Size 18,800 SF
21410	Medium TEMF	35,290	SF	210.00	New COS TEMF Std Size 36,000 SF
21410	Large TEMF	57,300	SF	179.00	New COS TEMF Std Size 58,200 SF
21410	Extra Large TEMF	74,700	SF	XXX	Use Size Adj Table for this facility using the Large TEMF UC
21412	UAV Storage Bld, 18' high	1,800	SF	112.00	Includes wet-pipe sprinklers, Formerly CC 21115
21470	POL Storage Bldg, Veh Maint Shop	600	SF	167.00	Not routinely occupied by personnel. No HVAC system
21470	Hazardous Waste Storage Bldg - TEMF	600	SF	204.00	
44135	Hazardous Material Storage Bldg TEMF	600	SF	XXX	Use the same UC as CC21470
44224	Org. Equip. Storage Bldg- TEMF	6,000	SF	103.00	Use this UC for CC44224, Organizational Equip Storage Bldg
	Includes Loading Dock, Secured Storage area and Wet-pipe Sprinklers				
85210	Organizational (tactical) Veh Parking for TEMF	varies	SY	63.00	9" Conc. w/ 8" base; use local data if available
21610	Ammunition Renovation Shop	6,500	SF	XXX	See Note-1 above
21612	Ammunition Surveillance Shop	13,000	SF	XXX	See Note-1 above
21630	Ammunition Demilitarization Fac	82,500	SF	XXX	See Note-1 above
21710	Electronics Maint Shop - Depot Level	20,000	SF	154.00	Ref Size & UC based on DOD Guidance Cost for FY15 MILCON
21740	Aircraft Avionics Maint Shop		SF		See Avionics Maint Shop, Catcode 21117 UC above
21850	Battery Shop	5,000	SF	XXX	See Note-1 above
21881	Parachute Repair Shop	6,600	SF	209.00	Ref Size & UC based on DOD Guidance Cost for FY15 MILCON
21885	General Purpose Maint Shop	31,000	SF	XXX	See Eng/Housing Maint Shop, Catcode 21910 UC below
21910	Engineering/Housing Maint Shop	22,000	SF	189.00	
31010	Chemistry Lab	9,000	SF	XXX	See Note-1 above



**Unit Costs for the ARMY Facilities - Military Construction Program (MILCON)  
PAX Newsletter 3.2.2, dated 2 May 2013**

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<u>CAT CODE</u>		<u>Avg size of Database or Std Size</u>	<u>Unit Of Measure (UOM)</u>	<u>Unit Cost \$/UOM</u>	<u>Remarks</u> Note-1: No data/Not enough usable Army Bid Data since 2009 to Forecast UC Note-2: Last year's UC escalated. Not enough projects awarded to forecast UC.
31410	Ground Transportation Equip Bldg	31,000	SF	XXX	See Note-1 above
42120	Hi Explosive Magazine w/Crane, Depot	4,000	SF	243.00	UC & Ref Size based on DOD Guidance Unit Cost
42180	Igloo Storage, Depot Level	7,800	SF		Use same UC as in CC42120
42183	Gen. Purpose Magazine w/o Crane	3,500	SF	212.00	UC & Ref Size based on DOD Guidance Unit Cost
42280	Igloo Storage, Installation	4,000	SF		Use same UC as in CC42120
42283	Magazine, Gen Purpose w/o Crane - Installation				w/o Crane. Use same UC as in CC42183
43211	Cold Storage Bld w/Processing	11,000	SF	XXX	See Note-1 above
43211	Cold Storage Bldw/o Processing	6,000	SF	XXX	See Note-1 above
44110	General Purpose (GP) Warehouse, Depot				See CC44220 below
44130	Controlled Humidity Warehouse	40,000	SF	XXX	See Note-1 above
44135	Hazardous Material Storage, Depot	21,000	SF	XXX	See Note-1 above
44150	Flammable Material Storage, Depot	8,200	SF	XXX	See Note-1 above
44181	Covered Vehicle Storage, Depot	16,000	SF	XXX	See Note-1 above
44182	Vehicle Storage Building, Depot	16,000	SF	XXX	See Note-1 above
44210	Aircraft Parts Storage Fac, Installation	16,000	SF	XXX	See Note-1 above
44220	Gen Purpose (GP) Warehouse, Installation				
	Lo-Bay, upto 16' Clear Stack height	22,000	SF	114.00	See Note-1 above. Ref size anf UC based on adjusted last Year's data
	Hi-Bay, upto 26' Clear Stack height	40,000	SF	130.00	
44220	Storage Bldg, Unheated - Army Reserve	2,500	SF	88.00	
44220	Lawn Equipment Bldg for AIT/BT barracks	1,500	SF	85.00	Normally programmed with the AIT and Basic Trainee Barracks complex
44222	Storage Shed (Covered, not Enclosed)	2,500	SF	68.00	
44224	Organizational Equipment Storage Bldg	6,000	SF	see TEMF	See TEMF Complex above for this Catcode
	For TEMF Org. Equip. Storage UC, see TEMF Complex. For COF Equip. Storage UC, see Readiness Module- CC14185				
44224	Org. Storage Bld for Army Reserve	30,000	SF	XXX	See Note-1 above
44228	HAZMAT Storage- Installation	500	SF	See CC21470	Use the same UC as CC21470
45210	Open Storage Area, Installation	XXX	SY		Use Catcode 851XX, Pavements, from Part-II, PAX
varies	<b>MEDICAL FACILITIES</b>				Unit Price & Ref Size from TMA/DoD Guidance Cost for FY15
51010	Inpatient Hospital/Medical Center	Varies	SF	444.00	Excl. boilers & chillers (cost) which is housed seperately in a Central Utility Plant
51010	Medical Clinic attached to Hospital	68,000	SF	336.00	Typically excludes boilers & chillers cost
55010	Small Medical Clinic <60,000 SF, Free Standing	30,000	SF	294.00	Less than 60,000 SF size. Includes boilers & chillers cost
55010	Large Medical Clinic >60,000 SF, Free Standing	220,000	SF	306.00	>60,000 SF size. Excludes boiler & chillers cost
55010	Mental/Behavioral Health Clinic	40,000	SF	246.00	Includes boiler & chillers cost
54010	Dental Clinic	29,000	SF	353.00	Includes boilers & chillers cost
53060	Medical Warehouse	44,000	SF	XXX	See Note-1 above

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53071	Ambulance Garage	480	SF	XXX	See Note-1 above
61001	Military Entrance Processing Stn	26,810	SF	XXX	See Note-1 above
61050	Administrative Fac, General Purpose	65,000	SF	218.00	Prewired work station @ \$4500/Stn - installed, NOT incl.
This multipurpose building provided office space, visitors area, auditorium, cafeteria, storage space, etc for administrative personnel					
61050	Command Headquarters Bldg	Varies	SF	XXX	New Catcode 14190, see CC14190 for UC
62010	Underground Administrative Facility	6,000	SF	XXX	See Note-1 above
<u>FAMILY HOUSING DWELLINGS - CONUS &amp; OCONUS</u>					
Show "Families (FA)" as the UOM in the in the Primary Line item by category code. Use SF per Family as the UOM in Subline item. Don't need to size adjust the UC per SF (using the Size Adj Table-1, Part -I) as the adjusted unit cost per FA by catcode, grade, and number of bedroom/per dwelling is already provided in the UC column below.					
Use Size Adj Table-1, Part - II only for project size adj. Normally 2-car garage (400 SF) are provided with each dwelling. GSF of garage is not included in the dwelling GSF, but cost of garage is considered included in the AFH unit cost as a norm. (i) Add up to 300 SF/FA for harsh climates, defined as having more than 7,500 Heating Degree Days (HDD) annually, or 5,500 Cooling Degree Days (CHD), annually. (ii) Gross SF may be increased by 10% FA for housing units for an officer holding a special 10% FA for housing units for an officer holding a special command position for the commanding officer of a military installation, and for the senior non-commissioned officer of a military installation.					
<u>Varies</u>	<u>FAMILY HOUSING DWELLINGS</u>	<u>No. of Bedroom</u>	<u>Family Unit&amp; SF</u>	<u>CONUS/ OCONUS</u>	
71111	General Officer, Grade O10	4 Bedrooms	4,000 SF/FA	156.50/ 177.50	
71111	General Officer, Grade O9	4 Bedrooms	4,000 SF/FA	156.50/ 177.50	
71111	General Officer, Grade O8	4 Bedrooms	3,330 SF/FA	158.50/ 180.00	
71111	General Officer, Grade O7	4 Bedrooms	3,330 SF/FA	158.50/ 180.50	
71112	Colonel, Grade O6	4 Bedrooms	2,520 SF/FA	156.00/ 172.00	
71113	LT. Colonel & Major, Grade O4&5	4 Bedrooms	2,310 SF/FA	153.00/ 174.50	
71113	LT. Colonel & Major, Grade O4&5	3 Bedrooms	2,020 SF/FA	154.00/ 175.50	
71113	Warrant Officer, Grade W4&5	4 Bedrooms	2,310 SF/EA	153.00/ 174.50	
71113	Warrant Officer, Grade W4&5	3 Bedrooms	2,010 SF/FA	154.00/ 175.50	
71114	CO Grade Officer, O1-3	5 Bedrooms	2,510 SF/FA	135.50/ 156.50	Use this for Warrant Officer, W1-3, too
71114	CO Grade Officer, O1-3	4 Bedrooms	2,150 SF/FA	137.50/ 161.00	Use this for Warrant Officer, W1-3, too
71114	CO Grade Officer, O1-3	3 Bedrooms	1,860 SF/FA	140.00/ 161.00	Use this for Warrant Officer, W1-3, too
71115	Senior NCO, E-9	4 Bedrooms	2,310 SF/FA	153.50/ 174.50	
71115	Senior NCO, E-9	3 Bedrooms	2,020 SF/FA	154.50/ 175.50	
71115	Senior NCO, E-7&8	5 Bedrooms	2,510 SF/FA	135.50/ 156.50	
71115	Senior NCO, E-7&8	4 Bedrooms	2,150 SF/FA	137.50/ 158.50	
71115	Senior NCO, E-7&8	3 Bedrooms	1,860 SF/FA	140.00/ 161.00	

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<u>CAT CODE</u>		<u>Avg size of Database or Std Size</u>	<u>Unit Of Measure (UOM)</u>	<u>Unit Cost \$/UOM</u>	<u>Remarks</u>
<b>Varies</b>	<b>FAMILY HOUSING DWELLINGS</b>	<b>No. of Bedroom</b>	<b>Family Unit&amp; SF</b>	<b>CONUS/ OCONUS</b>	<b>Note-1: No data/Not enough usable Army Bid Data since 2009 to Forecast UC Note-2: Last year's UC escalated. Not enough projects awarded to forecast UC.</b>
	FAMILY HOUSING DWELLINGS (Continued from the Previous Page)				
<b>71116</b>	Junior NCO/Enlisted, E-1 thru 6	5 Bedrooms	2,300 SF/FA	<b>138.50/ 159.50</b>	
<b>71116</b>	Junior NCO/Enlisted, E-1 thru 6	4 Bedrooms	1,950 SF/FA	<b>141.00/ 162.00</b>	
<b>71116</b>	Junior NCO/Enlisted, E-1 thru 6	3 Bedrooms	1,630 SF/FA	<b>143.00/ 164.00</b>	
	<b>GARAGE &amp; CARPORTS</b>				
<b>71410</b>	Detached Garage	500	SF	<b>XXX</b>	See Note-1 above
<b>71410</b>	Detached Garage	500	SF	<b>XXX</b>	See Note-1 above
<b>71411</b>	Carport - 2 Cars	500	SF	<b>XXX</b>	See Note-1 above
<b>85218</b>	Parking Garage, Multistoried	240,000	SF	<b>See CC below</b>	UC provided under CC 85218 below
<b>72010</b>	Temporary Lodging	30,000	SF		See Catcode 72412 also called Transient Housing
<b>72111</b>	BARRACKS - Permanent Party (UEPH)	150-199	Person	<b>178.00</b>	Use Table-1, Part-II, Project Size Adj. Table for CC-72111
	Unit cost does not include the cost for free standing equipment. All finished of unfinished areas with an average height of 6'-11" (2100 MM), measured from the underside of the structural system, and areas with perimeter walls measuring 4'-11" (155 MM) or more, shall be counted as full scope.				
<b>Various</b>	<b>WARRIORS IN TRANSITION (WT) BARRACKS COMPLEX</b>				
<b>72112</b>	WT Barracks, 56 Person Module	37,800	SF	<b>173.00</b>	Use Table-1, Part-I, Size Adj. Factor Table for CC7212
<b>14188</b>	WT Unit Admin Fac w/o Classrm	8,100	SF	<b>XXX</b>	See Note-1 above
<b>14188</b>	WT Company (CO) Admin Fac	8,100	SF	<b>XXX</b>	See Note-1 above
<b>14188</b>	WT Jt BN-CO Admin/Ops Fac	18,400	SF	<b>XXX</b>	See Note-1 above
<b>72210</b>	WT Dining Fac-Seating 251-500 Pers	18,000	SF		See Catcode 72210, Dining Fac (DFAC), below for UC
<b>74033</b>	WT Soldiers and Family Assist. Ctr (SFSC)	varies	SF		
	WT SFSC - Small	7,000	SF	<b>243.00</b>	
	WT SFSC - Large	15,000	SF	<b>230.00</b>	
<b>Various</b>	<b>OPERATIONAL READINESS TRAINING COMPLEX (ORTC)/ TRANSIENT TRAINING COMPLEX</b>				
	The ORTC Std design is based on a battalion sized ORTC to include Transient Barracks, Battalion HQ, Company HQ, Vehicle Maintenance, Dining, Officer Quarters, etc for transient trainees. These are more austere than permanent party facilities. No Cat Code exists for the Complex, utilize the catcode for the largest facility				
<b>72114</b>	ORTC Transient Training Barracks	61,115	SF	<b>170.00</b>	
<b>72412</b>	Sn. Enlisted Officers Qtrs, Transient	22,560	SF	<b>XXX</b>	See Note-1 above
<b>14184</b>	Battalion HQ Bldg, Transient Trng	11,235	SF	<b>218.00</b>	Based on 2 projects only
<b>14186</b>	COF/Company HQ, Transient Trng	19,580	SF	<b>XXX</b>	See Note-1 above
<b>14187</b>	Brigade HQ Bldg, Transient Trng	10,240	SF	<b>XXX</b>	See Note-1 above
<b>14179</b>	Hardstand Cover - Transient Trng	12,853	SF	<b>See COF Canopy</b>	Canopy column+foundation cost incl, Hardstand cost extra

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21406	Vehicle Maint Shop, Transient Trng	11,855	SF	236.00	Based on 2 projects only
72212	Dining Fac, 720 PN-Transient Trng	16,980	SF	See DFAC	UC provided under Dining Facilities below
72212	Dining Fac, 1428 PN-Transient Trng	20,786	SF	See DFAC	UC provided under Dining Facilities below
85210	Veh. Maint Shop (Motor Pool) Hardstand	varies	SY	64.00	Guidance only. Program this item under Supporting Fac
44222	6 Storage Sheds @800 SF per BN	4,800	SF	51.00	Cover/Shed cost only, cost of flooring underneath extra
<b>Various</b>	<b>ADVANCE INDIVIDUAL TRAINING (AIT) COMPLEX</b>				
	A Standard AIT Barracks Complex consists of Brigade HQ, Battalion HQ, a Barracks/COF Building for 2-Company Barracks/COF at 93,000 SF each for 600 soldiers totaling 186,000 SF, Dining Facility, and other required buildings and site facilities.				
72121	AIT Barracks w/CO Ops Space				
	2-Company 2COF Barracks Building for 600 PN	186,000	SF	171.00	
	Calculate average individual Barrack/CO Ops Bldg size, then use Size Adj. Factor Table-1, Part-I Table to determine AIT Barracks/CO Ops Bld UC using the Base Base price of \$171/SF. AIT Complex may contain 1,2,3, or 4 Brks/CO Ops Bldgs.				
14182	AIT Brigade HQS, if needed	9,100	SF	See CC14182	See CC 14182, Brigade HQ provided earlier
14183	AIT Battalion HQS w/ Classrms	12,300	SF	See CC14183	See CC 14183, Battalion HQ provided earlier
72210	Dining Fac, AIT, 1300 PN, 544 seats	30,500	SF	See DFAC UC	Std REF Size for AIT-Dining Fac is 30,500 SF.
72210	Dining Fac, AIT, 2600 BN, 1088 seats	56,000	SF	See DFAC UC	Use Size Adj Table-1, Part-I for 56,000 SF AIT Dining.
<b>Varies</b>	<b>BASIC TRAINING (BT/IET) and ONE STATION UNIT TRAINING (OUST) BARRACKS COMPLEX</b>				
	A Standard BT/OUST Complex includes 5-64,700 SF each Barracks buildings w/ Company Ops space in the main level for 1200 soldiers, a Battalion HQ bldg w/ classrooms, a 1300 person Dining Facility, Lawn equipment Storage (2000 SF) building, and a 1/4 mile 8-lane running track, training pits.				
72181	BT/OUST Brks w/COF Space	129,400	SF	164.00	Std size for 2 Company-2 COF Barracks @64,700 SF/CO-COF
	Calculate average individual Barrack/COF Bldg size, then use Size Adj. Factor Table-1, Part-I Table to determine BT Barracks/COF Bld UC using PAX Unit Cost. BT/OUST Barracks Complex may contain 1,2,3, 4 or 5 Brks/COF Bldgs. Scope of Covered Training Area under Barracks w/CO Ops Space is included in each Bldg GSF				
72181	Battalion (BN) HQS W/ Classrms	23,500	SF	186.00	UC based on limited records
72210	Dining Fac for 1 BN, 1300 trainees	30,500	SF	See DFAC	544 seats
72210	Dining Fac for 2 BN, 2600 trainees	56,000	SF	See DFAC	1088 seats, Use Size Adj Table using 1300 trainee UC above for this facility
	Covered Queuing Area is included in the Dining Facility area calculation. Standard Reference Size for the BT/OUST Training Dining Facility is 30,500 SF.				
<b>Varies</b>	<b>DINING FACILITIES (DFAC)</b>				
	Cost includes MCA Funded Kitchen equipment & installation. DFACs are categorized and, then unit cost for each size is developed seperately.				
72210	DFAC - Large, Permanent Party, 1057 - 1716 PN	26,500	SF	309.00	
72210	DFAC - Small, Permanent Party, 400 - 661 PN	18,000	SF	Use Size Adj	Use Size Adj Table for this facility using the 801-1300 PN DFAC Unit Cost
72210	DFAC - Medium, Permanent Party, 661 - 1056 PN	19,500	SF	Use Size Adj	Use Size Adj Table for this facility using the 801-1300 PN DFAC Unit Cost

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72210	DFAC- Small, Basic & Adv Individual Trng, 1300 PN	30,500	SF	277.00	Covered Queuing area is included in the Dining Fac SF.
72210	DFAC- Large, Basic & AIT Trng, 2600 PN	56,000	SF	292.00	
72212	Dining Facility - ORTC, 720 PN	16,962	SF	304.00	UC based on 2 Projects only
72212	Dining Facility - ORTC 1428 PN	20,987	SF	No data	Use Size Adj Table-1, Part-1 for UCs for this facility
72410	Unaccompanied Officers Quarters	44,000	SF	XXX	See Note-1 above
72412	Transient Training Officers Quarters	34,000	SF	232.00	UC and Ref Size based on DoD Guidance Price
73010	<b>STAND ALONE FIRE STATIONS (FS) - FS &amp; Air Rescue Fire Fighting Fire Stations (ARFF)</b>				
	These are stand alone Fire Stations. Their sizes are determined by the authorized number of Apparatus Bays which house Vehicles, number of Dorm Emergency rooms, and whether they are HQs or Satellite Stations. A standard Apparatus Bay shall be 62' x 91' for a 2- or 3-CO Station; for a Air Rescue Fire Fighting (ARFF) Apparatus Bay is 70' x 91'				
73010	Fire Station, 1-CO HQs, Apparatus	16,434	SF	248.00	Use Size Adj Table-1, Part-1 for UCs of other sizes
73010	Airfield Fire/Crash Rescue Station	30,000	SF	242.00	To be used for USAF projects only, from DOD Guidance UC escalated to Oct 2015
	<b>CONSOLIDATED FIRE, SAFETY &amp; SECURITY Facilities (FSS)/DEPT of EMERGENCY SERVICES (DES) Facilities</b>				
	Combined Military Police, Safety, Fire & Emergency Svc. Also called Directorate of Emergency Services (DES) Facilit				
73010	Consolidated FSS Fac - Medium	15,000	SF	XXX	See Note-1 above
73016	Police/Law Enforcement (MP) Station	4,200	SF	XXX	See Note-1 above
73017	Chapel - Pew seating capacity 400 PN	22,600	SF	271.00	
	Use Size Adj. Table-1, Part-1 for other standard Chapel sizes: 17,900 SF (200 PN seating), 32,900 SF (600 PN seating)				
73017	Chapel for Initial Entry Trainees (IET)	35,000	SF	XXX	New Std. Worship Center for IET, 1428 PN Pew seating
73018	Religious Education Facility - Medium	5,320	SF	XXX	See Note 1 above
	For upto 10 small groups of 55-70 PN. A dedicated space for Religious Education and Religious Activities. Should be reported separately from the worship space if collocated in a Chapel, catcode 73017. Use Size Adjustment Factor Table-1, for other UC of other sizes.				
73019	Chapel Family Life Ctr (300-450 PN)	17,000	SF	XXX	See Note-1 above
73046	<b>DEPENDENT SCHOOLS</b>				
	Elementary	81,000	SF	230.00	Used UC from DOD Unit Cost escalated to Oct 2015
	Junior High	XXXX	SF	XXX	See Note-1 above
	High	XXXX	SF	XXX	See Note-1 above
74010	Auditorium, General Purpose	4,000	SF	XXX	See Note-1 above
74011	Bowling Center	7,800	SF	XXX	See Note-1 above
74012	Cafeteria	5,000	SF	XXX	See Note-1 above
74014	Child Development Center (CDC)	XXXX	SF	No longer used	CDC CC74014 is replaced by 2 new catcodes below
74016	CDC-School Age, >6 years of age	20,500	SF	253.00	Program CDC Playground, CC75018, separately
	Use this size (Medium), 150-180 School Age children CDC as the Reference size. Use Size Adj. Table-1, Part-1 for other CDCs				

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74017	CDC-Preschool, 232 children, 0-6 yrs	26,450	SF	248.00	Program Outdoor Play Area, CC75018, separately
	Use this Medium size Pre-School CDC as the Reference size and the Size Adjust. Factor Table-1, Part-1 for other CDC costs				
74021	Commissary	85,000	SF	XXX	See Note-1 above
74022	Skill Development Center	22,000	SF	XXX	See Note-1 above
74023	Credit Union	3,000	SF	XXX	See Note-1 above
74024	Skill Development Ctr - automotive	15,000	SF	XXX	See Note-1 above
74025	Education Center for 10,000-15,000 PN	23,300	SF	XXX	See Note-1 above
74028	Physical Fitness Facility	59,820	SF	215.00	Includes 3 lane Jogging Track. Cost Based on DOD UC
	Use 59,820 SF as the Reference size and Size Adjust. Table-1 for other Fitness Center sizes. Program Indoor Swimming Pool (CC74042) separately				
74030	Sports Pro Shop	28,000	SF	XXX	See Note-1 above
74033	Soldier Family Support Ctr (SFSC)	Varies	SF	XXX	See Warrior in Transit (WT) Complex above.
74041	Main Library	12,000	SF	XXX	See Note-1 above
74047	Service Club	22,500	SF	XXX	See Note-1 above
74048	Officer Open Dining Facility	22,500	SF	XXX	See Note-1 above
74053	Main Exchange	82,000	SF	XXX	See Note-1 above
74056	Exchange Service Outlet	82,000	SF	XXX	See Note-1 above
74066	Youth Center, medium (105-135 PN)	21,000	SF	XXX	See Note-1 above
74068	Recreation Center	20,000	SF	XXX	See Note-1 above
74070	Indoor Roller Skating Rink	20,000	SF	XXX	See Note-1 above
74072	25 meter Indoor Swimming Pool	20,000	SF	XXX	See Note-1 above, (6200 SF water area w/ancillary areas)
74075	Recreational Support Building	5,000	SF	XXX	See Note-1 above
	PLAYGROUND for PPRESCHOOL CHILDREN, UNDER 6 YEARS of AGE				
75018	Small (126 children)	16,667	SF	18.00	
75018	Medium (232 Children)	23,870	SF	14.00	
75018	Large (338 Children)	38,310	SF	12.00	
	PLAYGROUND for SCHOOL AGE CHILDREN, 6 TO 10 YEARS				
75018	Small (105-135 children)	47,605	SF	10.00	
75018	Medium/Large (150-225 Children)	52,105	SF	10.00	
75022	Multipurpose Athletics Field (360' x 160')	1	EACH	165,540.00	UC based on projects from a single Installation only, UC adjustment permissible
75030	Outdoor Swimming Pool	13000	SF	XXX	See Note-1 above
75061	Bleacher, Covered	XXXX	1 EA		See Range Complex above for UC
85210	Organizational Vehicle Parking	Varies	SY		See TEMF Complex for CC 85210 UC
85218	Parking Garage, Multistoried	240,000	SF	42.50	UC based on DOD Guidance Unit Cost
	Assumes 425-450 SF/vehicle with turning radii and ramps.				

**Unit Costs for the ARMY Facilities - Military Construction Program (MILCON)  
PAX Newsletter 3.2.2, dated 2 May 2013**

**PRIMARY FACILITIES UNIT COST (UC) TABLE - Final version (PART - I, Buildings)**

Facility Unit Costs (UC) are based on the Most Recent 3-Year (2010-12) Bid Results, when at least 3 Projects were entered into the HII database by 1 Nov 2012. All UC's below represent the average of award prices, escalated to 1 Oct 2015, the assumed Mid-point of Construction for a typical FY2015 MILCON project, using the Inflation Guidance for FY2014 Presidents Budget published on 27 Feb 2013 and Normalized to an Area Cost Factor of 1. Please refer to the "Notes" in the Remarks column below for explanation.

<u>CAT CODE</u>		<u>Avg size of Database or Std Size</u>	<u>Unit Of Measure (UOM)</u>	<u>Unit Cost \$/UOM</u>	<u>Remarks</u>
89120	Plant /Utilities Building	28000	SF	XXX	See Note-1 above
	SPECIAL FOUNDATIONS				
	Piling, Treated Wood, 50' long, 12" butt		LF	35.00	
	Piling, Concrete, 14" square		LF	53.00	
	Piling, Concrete, 16" square		LF	56.00	
	Piling, Concrete, 18" diameter		LF	63.50	
	Piling, Steel H, 50' Long, HP 12x53		LF	43.50	
	Piling, Steel Pipe, 12" D, Conc Filled		LF	53.00	

**UNIT COSTS For SUPPORT FACILITIES**  
**PAX Newsletter 3.2.2, Part - II, dated 2 May 2013**

<b>APPENDIX A, SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).</b>					
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<u>CAT CODE</u>	<u>ITEM</u>	<u>QUANTI TY</u>	<u>UNIT</u>	<u>UNIT COST \$/UNIT</u>	<u>REMARK</u>
<b>11110 &amp; -20</b>	<b>AIRFIELD RUNWAY - FIXED WING (Catcode 11110) &amp; ROTARY WING (11120). Also Use it for CC11130, Landing Pad</b>				
11110	PAVEMENT - <u>SLIP FORM</u> UNREINFORCED CONCRETE, 5000 PSI, 12' PASS, INCLUDES JOINTS, FINISHING, & CURING				
11110	8" PAVEMENT	1	SY	\$175.00	
	10" PAVEMENT	1	SY	\$209.00	
	12" PAVEMENT	1	SY	\$242.00	
	16" PAVEMENT	1	SY	\$337.00	
11110	PAVEMENT - <u>FIXED FORM</u> UNREINFORCED PLAIN CEMENT CONCRETE, 4500 PSI, 12' PASS, INCLUDES JOINT, FINISHING, & CURING				
11110	12 " PAVEMENT	1	SY	\$249.00	
	14" PAVEMENT	1	SY	\$302.00	
	16" PAVEMENT	1	SY	\$332.00	
11110	<u>RUNWAY LIGHTING</u> - CENTER LINE LIGHTING WITH SHALLOW INSERT BASE				
	BI-DIRECTIONAL, SEMI FLUSH, 200 W	1	EA	\$2,110.00	
	BI-DIRECTIONAL, FLUSH, 200 W	1	EA	\$2,110.00	
	TOUCHDOWN ZONE LTG, UNIDIRECTIONAL, 200 W	1	EA	\$1,767.00	
	RUNWAY EDGE LIGHT, BI-DIRECTIONAL, 2-115 W	1	EA	\$1,873.00	
11110	<u>RUNWAY LIGHTING</u> - FOR BASE HOUSING				
	EDGE & THRESHHOLD LTG, BI-DIRECTIONAL, 200 W	1	EA	\$1,372.00	
	THRESHHOLD & APPROACH LTG, UNIDIRECTIONAL, 200 W	1	EA	\$918.00	
11110	AIRFIELD PAVEMENT MARKINGS				
	THERMOPLASTIC PVMT MARKINGS w/ 24 LBS GLASS BEADS	1	SF	\$3.00	
	TAXIWAY PAVEMENT MARKINGS	1	SF	\$1.20	



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<u>CAT CODE</u>	<u>ITEM</u>	<u>QUANTI TY</u>	<u>UNIT</u>	<u>UNIT COST \$/UNIT</u>	<u>REMARK</u>
1351X	<u>COMMUNICATIONS DISTRIBUTION CABLE SPLICING &amp; TERMINATIONS - CABLE SPLICING</u>				
	#6 STRANDED TO #1 STRANDED, 5 kV	1	EA	\$343.00	
	#6 STRANDED TO #1 STRANDED, 15 kV	1	EA	\$364.00	
	#6 STRANDED TO #1 STRANDED, 25 kV	1	EA	\$385.00	
1351X	#1 STRANDED TO #4/0 STRANDED, 5 kV	1	EA	\$380.00	
	#1 STRANDED TO #4/0STRANDED, 15 kV	1	EA	\$401.00	
	#1 STRANDED TO #4/0 STRANDED, 25 kV	1	EA	\$438.00	
1351X	4/0 STRN'DED TO 500 KCMIL STRN'DED, 5 kV	1	EA	\$522.00	
	4/0 STRN'DED TO 500 KCMIL STRN'DED,15 kV	1	EA	\$549.00	
	4/0 STRN'DED TO 500 KCMIL STRN'DED, 25 kV	1	EA	\$586.00	
1351X	500 KCMIL STRANDED, 5 kV	1	EA	\$528.00	
	500 KCMIL STRANDED, 15 kV	1	EA	\$554.00	
	500 KCMIL STRANDED,25 kV	1	EA	\$612.00	
1351X	600 KCMIL STRANDED, 5 kV	1	EA	\$549.00	
	600 KCMIL STRANDED, 15 kV	1	EA	\$601.00	
	600 KCMIL STRANDED, 25 kV	1	EA	\$654.00	
1351X	750 KCMIL STRANDED, 5 kV	1	EA	\$675.00	
	750 KCMIL STRANDED, 15 kV	1	EA	\$728.00	
	750 KCMIL STRANDED, 25 kV	1	EA	\$775.00	
1351X	1000 KCMIL STRANDED, 5 kV	1	EA	\$744.00	
	1000 KCMIL STRANDED, 15 kV	1	EA	\$807.00	

**UNIT COSTS For SUPPORT FACILITIES**  
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	1000 KCMIL STRANDED, 25 kV	1	EA	\$876.00	
	<u>COMMUNICATIONS DISTRIBUTION CABLE SPLICING &amp; TERMINATIONS - TERMINAL LUGS, SOLDERLESS</u>				
1351X	#16 TO #10	1	EA	\$15.00	
	#8 TO #4	1	EA	\$24.00	
	#2 TO #1	1	EA	\$33.00	
1351X	1/0 TO 2/0	1	EA	\$46.00	
	3/0	1	EA	\$63.00	
	4/0	1	EA	\$68.00	
1351X	250 KCMIL	1	EA	\$82.00	
	500 KCMIL	1	EA	\$129.00	
	750 KCMIL	1	EA	\$149.00	
	<u>COMMUNICATIONS DISTRIBUTION CABLE SPLICING &amp; TERMINATION - FIBER OPTICS CABLE</u>				
1351X	12 STRAND, W/ 1" PVC INNER DUCT RUN IN DUCTBANK	1	LF	\$2.30	
	24 STRAND, W/ 1" PVC INNER DUCT RUN IN DUCTBANK	1	LF	\$2.50	
	36 STRAND, W/ 1" PVC INNER DUCT RUN IN DUCTBANK	1	LF	\$2.90	
	<u>COMMUNICATION DISTRIBUTION CABLE - FIBER OPTICS SPLICE BOX</u>				
1351X	6 STRAND 6 SPLICE, INCLUDES SPLICE BOX AND CABLE SPLICES	1	EA	\$433.00	
	12 STRAND 12 SPLICE, INCLUDES SPLICE BOX AND CABLE SPLICES	1	EA	\$522.00	
	24 STRAND 24 SPLICE, INCLUDES SPLICE BOX AND CABLE SPLICES	1	EA	\$707.00	
	36 STRAND 36 SPLICE, INCLUDES SPLICE BOX AND CABLE SPLICES	1	EA	\$897.00	
	<u>COMMUNICATIONS DISTRIBUTION CABLE - FIBER OPTICS TERMINATION BOX &amp; CABLE CONNECTIONS</u>				
1351X	6 STRAND 6 CABLE CONNECTIONS, INCL. BOX & CABLE CONNECTIONS	1	EA	\$554.00	

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1351X	12 STRAND 12 CABLE CONNECTIONS, INCL. BOX & CABLE CONNECTIONS	1	EA	\$633.00	
	24 STRAND 24 CABLE CONNECTIONS, INCL. BOX & CABLE CONNECTIONS	1	EA	\$849.00	
	36 STRAND 36 CABLE CONNECTIONS, INCL. BOX & CABLE CONNECTIONS	1	EA	\$1,055.00	
81160	STANDBY GENERATOR, DIESEL, 3 PHASE 4 WIRE, 277/480 VOLTS, INCLUDING BATTERY, CHARGER, MUFFLER, AUTO TSFR SWITCH. EXCLUDES CONDUIT, WIRING & CONC PAD.	75 kW	EA	\$48,640.00	
		125 kW	EA	\$57,500.00	
		200 kW	EA	\$73,320.00	
		300 kW	EA	\$91,790.00	
		400 kW	EA	\$125,550.00	
		500 kW	EA	\$156,140.00	
		750 kW	EA	\$248,980.00	
		1000 kW	EA	\$312,280.00	
81230	<u>EXTERIOR LIGHTING</u>				
81230	UNDER GROUND DISTRIBUTION, INCLUDES 1" PVC DIRECT BURIAL CONDUIT, #10-3 STRAND COPPER WIRE. EXCLUDES EXCAVATION, BACKFILL, POLES & LIGHT FIXTURES.	1	LF	\$25.00	
	<u>EXTERIOR LIGHTING - LIGHT POLES &amp; LIGHT FIXTURE ASSEMBLY</u>				
	20' HIGH AL POLE W/ HIGH PRESSURE SODIUM (HPS) , 400 W	1	EA	\$3,402.00	
	40' HIGH AL POLE W/ HPS LGT, 1000 Watt	1	EA	\$5,987.00	
	40' HIGH FIBERGLASS POLE W/ HPS LGT, 1000 Watt	1	EA	\$4,906.00	
	20' HIGH AL POLE W/ METAL HALIDE LGT, 400 Watt	1	EA	\$3,376.00	
	40' HIGH AL POLE W/ METAL HALIDE LGT, 1000 Watt	1	EA	\$5,934.00	
	40' HIGH FIBER GLASS POLE W/ METAL HALIDE, 1000 Watt	1	EA	\$4,853.00	
81241	<u>OVERHEAD ELECTRIC LINES</u> - INCLUDES COST OF WOOD POLES @ 250' SPACING, 3 PHASE 4 Wire ALUMINUM CONDUCTOR, CROSS ARMS & INSULATORS				
	H-FRAME DISTRIBUTION LINES, 15-69 kV	1	LF	\$50.00	

**UNIT COSTS For SUPPORT FACILITIES**  
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	OVERHEAD LINES BELOW 15 kV	1	LF	\$41.00	
81242	<u>UNDERGROUND ELECTRIC LINES (DIRECT BURIAL)</u> - INCLUDES COST OF SEU (SERVICE ENTRANCE CABLE) COPPER CONDUCTOR, CHAIN EXCAVATOR to 3" and BACKFILL				
	# 1/0, 3/C COPPER CONDUCTOR, 600 VOLT	1	LF	\$20.00	
	# 4/0, 3C COPPER CONDUCTOR, 600 VOLT	1	LF	\$31.00	
81242	<u>CABLE TERMINATORS</u> - OUT DOOR SYSTEMS, 15 kV				
	#1 SOLID to 4/0 STRANDED	1	EA	\$343.00	
	#2/0 SOLID to 350 KCMIL STRANDED	1	EA	\$375.00	
	400 KCMIL to 750 KCMIL STRANDED	1	EA	\$433.00	
81242	<u>CABLE TERMINATORS</u> - CABLE SPLICING, 15 kV, URD or SIMILAR				
	#1 STRANDED to 4/0 STRANDED	1	EA	\$401.00	
	4/0 STRANDED to 500 KCMIL STRANDED	1	EA	\$549.00	
81242	<u>UNDERGROUND ELECTRICAL DUCT BANKS</u> READY FOR CONC FILL, INCL. EXCAVATION, CAST-IN-PLACE (CIP) CONC AND BACKFILL TO 3' DEEP.				
	1-WAY-4" DIA PVC CONDUIT, ENCASED BURIAL, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$24.00	
	2-WAY-4" DIA PVC, ENCASED BURIAL, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$31.00	
	4-WAY-4" DIA PVC, ENCASED BURIAL, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$41.00	
	6-WAY-6" DIA PVC, ENCASED BURIAL, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$84.00	
81242	1-WAY-2" RGS (RIGID GALV STEEL), ENCASED BURIAL, INCL. EXCAV, BACKFILL & CIP CO	1	LF	\$21.00	
	1-WAY-3" RGS, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$40.00	
	1-WAY-4" RGS, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$55.00	
	1-WAY-5" RGS, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$93.00	
	1-WAY-6" RGS, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$132.00	

**UNIT COSTS For SUPPORT FACILITIES**  
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81242	2-WAY-2" RGS, INCL. EXCAVATION, BACKFILL & CIP CONC	1	LF	\$39.00	ELECTRICAL UNDERGROUND DUCT BANKS, RIGID GALVANIZED STEEL (RGS), INCLUDES EXCAVATION, BACKFILL, AND CAST IN PLACE CONCRETE
	2-WAY-3" RGS, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$75.00	
	2-WAY-4" RGS, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$105.00	
	2-WAY-5" RGS, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$180.00	
	2-WAY-6" RGS, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$258.00	
81242	3-WAY-2" RGS, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$56.00	
	3-WAY-3" RGS, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$109.00	
	3-WAY-4" RGS, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$152.00	
	3-WAY-5" RGS, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$262.00	
	3-WAY-6" RGS, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$375.00	
81242	4-WAY-2" RGS, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$69.00	
	4-WAY-3" RGS, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$141.00	
	4-WAY-4" RGS, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$202.00	
	4-WAY-5" RGS, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$348.00	
	4-WAY-6" RGS, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$501.00	
81242	1-WAY-2" PVC, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$11.00	
	1-WAY-3" PVC, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$14.00	
	1-WAY-4" PVC, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$16.00	
	1-WAY-5" PVC, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$19.00	
	1-WAY-6" PVC, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$23.00	
81242	2-WAY-2" PVC, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$19.00	
	2-WAY-3" PVC, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$23.00	
	2-WAY-4" PVC, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$28.00	

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	2-WAY-5" PVC, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$34.00	
	2-WAY-6" PVC, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$42.00	
81242	4-WAY-2" PVC, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$30.00	
	4-WAY-3" PVC, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$37.00	
	4-WAY-4" PVC, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$45.00	
	4-WAY-5" PVC, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$54.00	
	4-WAY-6" PVC, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$70.00	
81242	6-WAY-4" PVC, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$73.00	
	6-WAY-5" PVC, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$86.00	
	6-WAY-6" PVC, INCL. EXCAV, BACKFILL & CIP CONC	1	LF	\$117.00	
81242	<u>ELECTRICAL UNDERGROUND MANHOLES</u> , PRECAST w/ IRON RACKS & PULLING IRONS, C.I. FRAME AND COVER, EXCLUDES EXCAVATION, BACKFILL & CAST IN PLACE CONCRETE				
	MANHOLES, 6' x 8' x 7' DEEP	1	EA	\$7,913.00	
	MAHHOLES, 6' x 10' x 7' DEEP	1	EA	\$8,704.00	
81242	HAND HOLES, PRECAST CONC W/COVER 4' x 4' x 4' DEEP	1	EA	\$2,822.00	
81320	<u>SUBSTATION, LOAD UNINTERRUPTER SWITCH, 600 AMP - 2 POSITIONS, 300 kVA and BELOW, W/ CURRENT LIMITING FUSE, 4.8 kV, 600 amps, GROUND LOOP</u>		KVA	\$30,600.00	
81360	<u>TRANSFORMERS (XMFR) - ALL PAD MOUNTED w/ BOLLARDS AND GROUNDING LOOP</u>				
	3 PHASE -150 kVA, OIL FILLED, 5 or 15 kV w/ TAPS, 277V (PRI) /480V (SEC)	1	EA	\$22,790.00	
	3 PH -225 kVA, OIL FILLED, 5 or 15 kV w/ TAPS, 277V (PRI) / 480V (SEC)	1	EA	\$23,950.00	
	3 PHASE -500 kVA, OIL FILLED, 5 or 15 kV w/TAPS, 277V (PRI) / 480V (SEC)	1	EA	\$27,110.00	
	3 PH -1,000 kVA, OIL FILLED, 5 or 15 kV w/ TAPS, 277V (PRI) / 480V (SEC)	1	EA	\$47,050.00	
	3 PH -2,000 KVA, OILL FILLED, 5 or 15kV w/ TAPS, 277V (PRI) / 480V (SEC)	1	EA	\$64,880.00	

**UNIT COSTS For SUPPORT FACILITIES**  
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81360	15 kVA, DRY TYPE, SINGLE PH, 240/480V (PRI), 120/240V (SEC)	1	EA	\$9,205.00	
	25 kVA, DRY TYPE, SINGLE PH, 240/480V (PRI), 120/240V (SEC)	1	EA	\$9,996.00	
	37.5 kVA, DRY TYPE, SINGLE PH, 240/480V (PRI), 120/240V (SEC)	1	EA	\$10,970.00	
	50 kVA, DRY TYPE, SINGLE PH, 240/480V (PRI), 120/240V (SEC)	1	EA	\$11,710.00	
	75 kVA, DRY TYPE, SINGLE PH, 240/480V (PRI), 120/240V (SEC)	1	EA	\$13,190.00	
	100 kVA, DRY TYPE, SINGLE PH, 240/480V (PRI), 120/240V (SEC)	1	EA	\$14,140.00	
	167 kVA, DRY TYPE, SINGLE PH, 240/480V (PRI), 120/240V (SEC)	1	EA	\$18,150.00	
81360	75 kVA, DRY TYPE - VENTILATED, 3- PH, 480V (PRI), 120/208V (SEC)	1	EA	\$11,610.00	3-PHASE 480 V PRIMARY, 120/208 V SECONDARY
	112.5 kVA, DRY TYPE - VENTILATED, 3- PH, 480V (PRI), 120/208V (SEC)	1	EA	\$12,660.00	
	150 kVA, DRY TYPE - VENTILATED, 3- PH, 480V (PRI), 120/208V (SEC)	1	EA	\$13,930.00	
	225 kVA, DRY TYPE - VENTILATED, 3- PH, 480V (PRI), 120/208V (SEC)	1	EA	\$16,350.00	
	500 kVA, DRY TYPE - VENTILATED, 3- PH, 480V (PRI), 120/208V (SEC)	1	EA	\$25,000.00	
	750 kVA, DRY TYPE - VENTILATED, 3- PH, 480V (PRI), 120/208V (SEC)	1	EA	\$36,710.00	
	1000 kVA, DRY TYPE - VENTILATED, 3- PH, 480V (PRI), 120/208V (SEC)	1	EA	\$40,720.00	
81360	10 kVA, DRY TYPE, SINGLE PH, 240/480V (PRI), 120/240V (SEC), ON 36' POLE	1	EA	\$4,721.00	
	15 KVA, DRY TYPE, SINGLE PH, 240/480V (PRI), 120/240V (SEC), ON 36' POLE	1	EA	\$5,512.00	
	25 kVA, DRY TYPE, SINGLE PH, 240/480V (PRI), 120/240V (SEC), ON 36' POLE	1	EA	\$3,508.00	
81360	<u>MAIN POWER CONVERSION EQUIPMENT (POWER TRANSFORMER) - ALL PAD MOUNTED W/BOLLARDS &amp; GROUNDING LOOP</u>				
	46 kV		MVA	\$35,450.00	
	110 kV		MVA	\$30,380.00	
	161 kV		MVA	\$28,380.00	
	500 kV		MVA	\$27,750.00	

**UNIT COSTS For SUPPORT FACILITIES**  
**PAX Newsletter 3.2.2, Part - II, dated 2 May 2013**

<b>APPENDIX A, SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).</b>					
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<u>CAT CODE</u>	<u>ITEM</u>	<u>QUANTI TY</u>	<u>UNIT</u>	<u>UNIT COST \$/UNIT</u>	<u>REMARK</u>
81360	<u>TRANSFORMERS 13,800 VOLTS TO 480/277 VOLTS</u> - ALL PAD MOUNTED W/BOLLARDS AND GROUNDING LOOP				
	112.5 kVA	1	EA	\$50,640.00	
	150 kVA	1	EA	\$51,380.00	
	225 kVA	1	EA	\$58,550.00	
	500 kVA	1	EA	\$66,470.00	
82210	<u>STEAM LINES, UNDERGROUND</u> - FROM CENTRAL PLANT TO BUILDING				
82210	<u>COMMON CONDUIT - COMBINED STEAM SUPPLY &amp; CONDENSATE RETURN PIPES, PREFABRICATED BLACK STEEL, INSULATED CASE, INCLUDES FITTINGS, TESTING, STEAM MANHOLES @ 250' O.C., 3' DEEP EXCAVATION &amp; BACKFILL</u>				
82210	12-3/4" CASE W/ STEAM 2"; RETURN 1-1/4"	1	LF	\$517.00	
	10-3/4" CASE W/ STEAM 1-1/2"; RETURN 1-1/2"	1	LF	\$469.00	
	10-3/4" CASE W/ STEAM 1-1/4"; RETURN 1-1/2"	1	LF	\$469.00	
	10-3/4" CASE W/ STEAM 1"; RETURN 1"	1	LF	\$469.00	
	<u>STEAM CONDENSATE LINES, UNDERGROUND</u> - FROM CENTRAL PLANT TO BUILDING (CONT'D)				
82210	<u>SINGLE CONDUIT - STEAM OR HIGH TEMPERATURE WATER PIPE, PREFABRICATED BLACK STEEL, INSULATED CASE ON SUPPORTS, INCLUDES FITTINGS, TESTING, 3' EXCAVATION &amp; BACKFILL</u>				
82210	12-3/4" CASE W 1-1/4" PIPE	1	LF	\$338.00	
	12-3/4" CASE W 1-1/2" PIPE	1	LF	\$343.00	
	12-3/4" CASE W 2" PIPE	1	LF	\$359.00	
	12-3/4" CASE W 2-1/2" PIPE	1	LF	\$364.00	
82210	14" INSULATED CASE W 3" PIPE	1	LF	\$380.00	
	14" INSULATED CASE W 4" PIPE	1	LF	\$406.00	
	18" INSULATED CASE W 6" PIPE	1	LF	\$512.00	
82210	<u>CONCRETE TRENCH</u> for STEAM AND HOT WATER PIPING				
	18" DEEP x 24" WIDE x 6" THICK WALL w CONCRETE COVER	1	LF	\$140.00	



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82220	<u>HOT WATER LINES, UNDERGROUND</u>				
82220	COMMON CONDUIT - <u>COMBINED HOT WATER SUPPLY &amp; RETURN PIPES</u> , PREFABRICATED BLACK STEEL, INSULATED CASE, INCLUDES FITTINGS, TESTING, 3' EXCAVATION & BACKFILL				
	10-3/4" INSULATED CASE W HW 1"; RET 1"	1	LF	\$364.00	
	10-3/4" INSULATED CASE W HW 1-1/2"; RET 1-1/2"	1	LF	\$364.00	
	10-3/4" INSULATED CASE W HW 2"; RET 2"	1	LF	\$411.00	
	16" INSULATED CASE W HW 3"; RET 3"	1	LF	\$464.00	
	20" INSULATED CASE W HW 4"; RET 4"	1	LF	\$617.00	
82220	STEAM DISTRIBUTION MANHOLE, PREFAB STEEL, 8' X 6' HT INCL. MH VENT, NORMAL PIPING & INSTALLATION, CONDUIT AND LADDER	1	EA	\$18,150.00	
82410	<u>GAS PIPELINE</u> for PLAIN & NATURAL GAS DISTRBUTION - <u>STEEL PIPE</u> , PLAIN END, TAR COATED AND WRAPPED, INCLUDES EXCAVATION & BACKFILL				
	1" DIA. STEEL PIPE, SCHEDULE 40, TAR COATED & WRAPPED	1	LF	\$19.00	
	2" DIA. STEEL PIPE, SCHEDULE 40, TAR COATED & WRAPPED	1	LF	\$23.00	
	3" DIA. STEEL PIPE, SCHEDULE 40, TAR COATED & WRAPPED	1	LF	\$31.00	
	4" DIA. STEEL PIPE, SCHEDULE 40, TAR COATED & WRAPPED	1	LF	\$43.00	
	6" DIA. STEEL PIPE, SCHEDULE 40, TAR COATED & WRAPPED	1	LF	\$68.00	
	8" DIA. STEEL PIPE, SCHEDULE 40, TAR COATED & WRAPPED	1	LF	\$100.00	
	12" DIA. STEEL PIPE, SCHEDULE 40, TAR COATED & WRAPPED	1	LF	\$171.00	
	18" DIA. STEEL PIPE, SCHEDULE 40, TAR COATED & WRAPPED	1	LF	\$241.00	
	24" DIA. STEEL PIPE SCHEDULE 40, TAR COATED & WRAPPED	1	LF	\$392.00	
	4" DIA. STEEL PIPE, SCHEDULE 80, TAR COATED & WRAPPED	1	LF	\$146.00	
	6" DIA. STEEL PIPE, SCHEDULE 80, TAR COATED & WRAPPED	1	LF	\$186.00	

**UNIT COSTS For SUPPORT FACILITIES**  
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<u>CAT CODE</u>	<u>ITEM</u>	<u>QUANTI TY</u>	<u>UNIT</u>	<u>UNIT COST \$/UNIT</u>	<u>REMARK</u>
83150	<u>SEWAGE LIFT STATION</u> - PACKAGED SEWAGE LIFT STATION, INCLUDES FITTINGS ACCESSORIES; EXCLUDES FENCING, EXTERNAL PIPING OR BUILDING TO HOUSE THE EQUIPMENT				
	PACKAGED SEWAGE LIFT 200,000 GPD, NO FENCING, EXT PIPING	1	EA	\$325,470.00	
	PACKAGED SEWAGE LIFT 100 GPM, NO FENCING, EXT PIPING	1	EA	\$279,580.00	
	PACKAGED SEWAGE LIFT 200 GPM, NO FENCING, EXT PIPING	1	EA	\$363,980.00	
83150	<u>SEWERAGE EJECTOR PUMP</u> - DUPLEX SYSTEM, FIBERGLASS TANK, 0.7 HP, 15' HEAD, 135 GAL, 2" DISCHARGE, INCL CONTROLS				
	FIBERGLASS SEWAGE EJECTOR 174 GPM, 7 HP, INCL TANK, COVER, PUMP & CNTRL	1	EA	\$4,194.00	
83210	STORM DRAINAGE (SD) <u>MANHOLES</u> , (MH), CAST IN PLACE (CIP) CONCRETE, INCLUDING MANHOLE, FRAMES & COVERS				
	CIP MH 4' DEEP, 4' x 4' x 8" THICK WALL, EXCL. FOOTING, EXCAVATION & BACKFILL	1	EA	\$2,347.00	
	CIP MH 6' DEEP, 4' x 4' x 8" THICK WALL, EXCL. FOOTING, EXCAVATION & BACKFILL	1	EA	\$3,218.00	
	CIP MH 8' DEEP, 4' DIA, 8" THICK WALL, INCL. BASE, EXCAVATION, BACKFILL	1	EA	\$4,748.00	
	CIP MH OVER 8' DEEP, 4' DIA, 8" THICK WALL, INCL. BASE, EXCAVATION, BACKFILL	1	VLF	\$575.00	
83210	SANITARY SEWER/ STORM DRAINAGE <u>MANHOLES (MH)</u> , PRECAST CONCRETE (PRCST) , INCLUDES MAHOLES, FRAMES & COVERS				
	PRCST MH UPTO 8' DEEP, 4' INTERNAL DIA., INCL MAHOLES, FRAMES & COVERS	1	VLF	\$433.00	
	PRCST MH OVER 8' DEEP, 4' INTERNAL DIA., INCL MAHOLES, FRAMES & COVERS	1	VLF	\$353.00	
83210	<u>CATCH BASIN</u> - PRECAST CONCRETE, INCLUDES MANHOLE, FRAMES, & COVER, BASE, EXCAVATION, & BACKFILL				
	4' DEEP, 5' INTERNAL DIA. INCL. BASE, EXCAVATION, & BACKFILL	1	EA	\$4,009.00	
	6' DEEP, 5' INTERNAL DIA, INCL. BASE, EXCAVATION, & BACKFILL	1	EA	\$4,800.00	
83210	<u>CURB INLET (CI)/ GUTTERMOUTH</u> - INCL. CURB INLET FRAME, GRATE, & CURB BOX; EXCL. FOOTING, CATCHBASIN, EXCAVATION BACKFILL, AND PIPING OF DRAIN				
	CI 24" x 36" FRAME, GRATE, CURB BOX, LARGE, HEAVY DUTY	1	EA	\$1,424.00	
83210	STORMWATER <u>DRAINAGE PONDS</u> - INCLUDES FENCE, SEEDING SLOPES, PARTIAL LINER & EXCAVATION				
	1/8 ACRES, 5 FT DEEP w FENCE, SEEDING SLOPES, PARTIAL LINER & EXCAVATION	1	EA	\$25,530.00	
	1/4 ACRES, 5 FT DEEP w FENCE, SEEDING SLOPES, PARTIAL LINER & EXCAVATION	1	EA	\$51,170.00	

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	3/8 ACRES, 5 FT DEEP w FENCE, SEEDING SLOPES, PARTIAL LINER & EXCAVATION	1	EA	\$77,020.00	
	1/2 ACRES, 5 FT DEEP w FENCE, SEEDING SLOPES, PARTIAL LINER & EXCAVATION	1	EA	\$102,340.00	
84210	<b>WATER DISTRIBUTION LINES - <u>CEMENT LINED DUCTILE IRON PIPE</u>, MECHANICAL JOINT, NO FITTING; INCL. EXCAVATION &amp; BACKFILL,</b>				
	4" DIA. PIPE, 18' LENGTHS, CLASS 50	1	LF	\$42.00	
	6" DIA. PIPE, 18' LENGTHS CLASS 50	1	LF	\$50.00	
	10" DIA. PIPE, 18' LENGTHS, CLASS 50	1	LF	\$72.00	
	12" DIA. PIPE, 18' LENGTHS, CLASS 50	1	LF	\$81.00	
	18" DIA. PIPE, 18' LENGTHS, CLASS 50	1	LF	\$127.00	
	24" DIA. PIPE, 18' LENGTHS, CLASS 50	1	LF	\$160.00	
84210	<b>WATER DISTRIBUTION LINES - <u>PLASTIC PIPE</u>, FIBERGLASS, FILAMENT WOUND, GENERAL SVC: INCL. EXCAVATION &amp; BACKFILL</b>				
	2" DIA., FIBERGLASS	1	LF	\$30.00	
	3" DIA., FIBERGLASS	1	LF	\$35.00	
	4" DIA, FIBERGLASS	1	LF	\$38.00	
	6" DIA, FIBERGLASS	1	LF	\$51.00	
	10" DIA., FIBERGLASS	1	LF	\$92.00	
	12" DIA., FIBERGLASS	1	LF	\$114.00	
84210	<b>WATER DISTRIBUTION LINES - <u>PLASTIC PIPE, PVC</u>; INCLUDES EXCAVATION &amp; BACKFILL</b>				
	1" DIA. PVC, SCHEDULE 40	1	LF	\$26.00	
	2" DIA. PVC, SCHEDULE 40	1	LF	\$29.00	
	3" DIA. PVC, SCHEDULE 40	1	LF	\$34.00	
	4" DIA. PVC, SCHEDULE 40	1	LF	\$38.00	
	6" DIA. PVC, SCHEDULE 40	1	LF	\$50.00	
	10" DIA. PVC, SCHEDULE 40	1	LF	\$87.00	

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	12" DIA. PVC, SCHEDULE 40	1	LF	\$95.00	
84210	WATER DISTRIBUTION LINES - <u>PLASTIC PIPE, PVC</u> ; INCLUDES EXCAVATION & BACKFILL				
	1" DIA., PVC, SCHEDULE 80	1	LF	\$27.00	
	2" DIA., PVC, SCHEDULE 80	1	LF	\$31.00	
	3" DIA., PVC, SCHEDULE 80	1	LF	\$35.00	
	4" DIA., PVC, SCHEDULE 80	1	LF	\$40.00	
	6" DIA., PVC, SCHEDULE 80	1	LF	\$56.00	
	10" DIA., PVC SCHEDULE 80	1	LF	\$84.00	
	12" DIA., PVC, SCHEDULE 80	1	LF	\$99.00	
84210	WATER DISTRIBUTION LINE - <u>PLASTIC PIPE, HIGH DENSITY POLYETHYLENE (HDPE)</u> , SINGLE WALL, STRAIGHT WELDED				
	1" DIA., HDPE, 40' LENGTH, DR 11	1	LF	\$10.00	
	2" DIA., HDPE, 40' LENGTH, DR 11	1	LF	\$11.00	
	3" DIA., HDPE, 40' LENGTH, DR 11	1	LF	\$12.00	
	4" DIA., HDPE, 40' LENGTH, DR 11	1	LF	\$13.00	
	6" DIA., HDPE, 40' LENGTH, DR 11	1	LF	\$19.00	
	10" DIA., HDPE, 40' LENGTH, DR 11	1	LF	\$34.00	
	12" DIA., HDPE, 40' LENGTH, DR 11	1	LF	\$45.00	
	18" DIA., HDPE, 40' LENGTH, DR 11	1	LF	\$78.00	
	24" DIA., HDPE, 40' LENGTH, DR 11	1	LF	\$95.00	
	36" DIA., HDPE, 40' LENGTH, DR 11	1	LF	\$132.00	
84472	WATER PUMP STATION (WPS), NONPOTABLE - <u>FIRE PUMP, DIESEL</u> , INCL. COST OF PUMP, CONTROLLER, FITTINGS & RELIEF VALVE				
	500 GPM - 4" PUMP, 125 PSI, 78 HP	1	EA	\$50,850.00	EQUIPMENT ONLY, DOES NOT INCLUDE THE COST OF FACILITY TO
	1000 GPM - 4" PUMP, 100 PSI, 89 HP	1	EA	\$50,750.00	
	2000 GPM - 6" PUMP, 100 PSI, 167 HP	1	EA	\$66,470.00	
	2500 GPM - 8" PUMP, 150 PSI, 365 HP	1	EA	\$90,730.00	

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	1000 GPM -5" PUMP, 100 PSI, 86 HP, 3350 RPM	1	EA	\$32,280.00	HOUSE THE EQUIPMENT
	2000 GPM -6" PUMP, 100 PSI, 167 HP, 1770 RPM	1	EA	\$42,090.00	
84610	ELEVATED WATER STORAGE TANK - <u>ABOVEGROUND STEEL TANK for WATER</u> , 100' TO BOTTOM CAPACITY LINE; INCL. SPREAD FOUNDATION, PAINTING, EXCLUDES PIPES & PUMPS				
	50,000 GAL., ELEVATED STEEL TANK	1	EA	\$205,730.00	INCL. STORAGE TANK STANDPIPE, 125 FEET HIGH TOWER, VALVES & STD FOUNDATIONS, EXCL. PUMPHOUSE
	100,000 GAL, ELEVATED STEEL TANK	1	EA	\$313,340.00	
	150,000 GAL, ELEVATED STEEL TANK	1	EA	\$470,000.00	
	250,000 GAL, ELEVATED STEEL TANK	1	EA	\$868,790.00	
	500,000 GAL, ELEVATED STEEL TANK	1	EA	\$1,544,520.00	
	750,000 GAL, ELEVATED STEEL TANK	1	EA	\$1,874,740.00	
	1,000,000 GAL (1M), ELEVATED STEEL TANK	1	EA	\$2,591,080.00	
84610	GROUND STORAGE TANK (WATER) - <u>ABOVEGROUND PRE-STRESSED CONCRETE TANK</u> ; INCL. INTEGRAL FOUNDATION, EXCLUDES PIPES AND PUMPS				
	100,000 GAL, ELEVATED PRE-STRESSED CONC TANK	1	EA	\$131,880.00	INCL. TANK AND STD FOUNDATIONS, DOES NOT INCLUDE EXTERNAL PIPING AND PUMPS
	250,000 GAL, ELEVATED PRE-STRESSED CONC TANK	1	EA	\$330,220.00	
	500,000 GAL, ELEVATED PRE-STRESSED CONC TANK	1	EA	\$537,000.00	
	1,000,000 GAL (1M) , ELEVATED PRE-STRESSED CONC TANK	1	EA	\$779,120.00	
	2,000,000 GAL (2M), ELEVATED PRE-STRESSED CONC TANK	1	EA	\$1,182,130.00	
	4,000,000 GAL, ELEVATED PRE-STRESSED CONC TANK	1	EA	\$1,880,540.00	
84620	RESERVOIR, <u>POTABLE WATER</u> - <u>GROUND LEVEL STEEL STORAGE TANK</u> ; INCLUDES 1" x 3" RING WALL FOUNDATION; EXCLUDES PIPES & PUMPS				
	250,000 GAL, GROUND LEVEL STEEL STORAGE TANK	1	EA	\$387,710.00	INCLUDES 1" x 3" RING FOUNDATION,
	500,000 GAL, GROUND LEVEL STEEL STORAGE TANK	1	EA	\$548,600.00	
	1,000,000 GAL (1M), GROUND LEVEL STEEL STORAGE TANK	1	EA	\$868,790.00	

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	2,000,000 GAL (2 M), GROUND LEVEL STEEL STORAGE TANK	1	EA	\$1,374,140.00	EXCLUDES PIPE & PUMPS
	4,000,000 GAL (4M) , GROUND LEVEL STEEL STORAGE TANK	1	EA	\$2,792,060.00	
84620	<u>UNDERGROUND STORAGE TANK - FIBERGLASS, DOUBLEWALL, U.L. LISTED, INCLUDES MANWAYS, SLAB, &amp; HOLD-DOWN STRAPS</u>				
	600 GAL, UNDERGROUND, FIBERGLASS, DOUBLE-WALL STORAGE TANK	1	EA	\$10,970.00	INCLUDES MANWAYS, SLABS, & HOLDDOWN STRAPS
	1,000 GAL, UNDERGROUND, FIBERGLASS, DOUBLE-WALL STORAGE TANK	1	EA	\$15,190.00	
	2,500 GAL, UNDERGROUND, FIBERGLASS, DOUBLE-WALL STORAGE TANK	1	EA	\$22,160.00	
	4,000 GAL, UNDERGROUND, FIBERGLASS, DOUBLE-WALL STORAGE TANK	1	EA	\$25,210.00	
	6,000 GAL, UNDERGROUND, FIBERGLASS, DOUBLE-WALL STORAGE TANK	1	EA	\$34,180.00	
	8,000 GAL, UNDERGROUND, FIBERGLASS, DOUBLE-WALL STORAGE TANK	1	EA	\$39,460.00	
	10,000 GAL, UNDERGROUND, FIBERGLASS, DOUBLE-WALL STORAGE TANK	1	EA	\$44,420.00	
	12,000 GAL, UNDERGROUND, FIBERGLASS, DOUBLE-WALL STORAGE TANK	1	EA	\$53,810.00	
	15,000 GAL, UNDERGROUND, FIBERGLASS, DOUBLE-WALL STORAGE TANK	1	EA	\$69,100.00	
	20,000 GAL, UNDERGROUND, FIBERGLASS, DOUBLE-WALL STORAGE TANK	1	EA	\$85,980.00	
84620	<u>ABOVE GROUND FUEL STORAGE TANK - CONCRETE; INCLUDES PAD</u>				
	500 GA	1	EA	\$12,870.00	
	1,000 GA	1	EA	\$17,830.00	
	2,000 GA	1	EA	\$22,790.00	
	4,000 GA	1	EA	\$29,220.00	
	8,000 GA	1	EA	\$45,580.00	
	12,000 GA	1	EA	\$61,190.00	
85110	<u>ROADS/ PAVEMENTS - ASPHALT CONCRETE (AC) SURFACE; INCL WEARING COURSE, EXCL EARTHWORK (CUT &amp; FILL, CC 93410). ALSO USE THESE COSTS FOR CC 85120 AND 85130</u>				
	1-1/2" TH, PLANT MIXED AC PAVING FOR HIGHWAYS , NO EARTHWORK (CUT & FILL)	1	SY	\$8.20	ALSO USE THIS FOR LARGE
	2" TH, PLANT MIXED AC PAVING FOR HIGHWAYS , NO EARTHWORK (CUT & FILL)	1	SY	\$11.00	

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	3" TH, PLANT MIXED AC PAVING FOR HIGHWAYS , NO EARTHWORK (CUT & FILL)	1	SY	\$16.00	PAVED AREAS
85110	<u>RECYCLED (RECLAIMED) ASPHALTIC CONCRETE, STOCKPILED IN 145 LB/CF</u>				
	PLANT MIXED BITUMINOUS CONCRETE		TON	\$55.00	
	PLANT MIXED BITUMINOUS CONCRETE, OLD/ NEW RATIO 70:30		TON	\$64.00	
85110	<u>CONCRETE PAVEMENT FOR HIGHWAYS &amp; LARGE PAVED AREAS, 4500 PSI, FIXED FORM, 12' PASS, INCL. JOINTS, FINISHINGS, &amp; CURING JT-FIN-CUR) , EXCL. EARTHWORK</u>				
	6" THK UNREINFORCED CONC, 4.5 PSI, 12' PASS FIXED FORM, INCL. JT-FIN-CUR	1	SY	\$28.00	
	8", THK UNREINFORCED, 4.5 PSI, 12' PASS FIXED FORM, INCL. JT-FIN-CUR	1	SY	\$37.00	
	10" THK UNREINFORCED, 4.5 PSI, 12' PASS FIXED FORM, INCL. JT-FIN-CUR	1	SY	\$47.00	
	12" THK UNREINFORCED, 4.5 PSI, 12' PASS FIXED FORM, INCL. JT-FIN-CUR	1	SY	\$55.00	
	16" THK UNREINFORCED, 4.5 PSI, 12' PASS FIXED FORM, INCL. JT-FIN-CUR	1	SY	\$84.00	
85110	<u>REINFORCED CONCRETE</u>				
	6" THK REINFORCED CONC, 4.5 PSI, 12' PASS FIXED FORM, INCL. JT-FIN-CUR	1	SY	\$60.00	
	8" THK REINFORCED CONC, 4.5 PSI, 12' PASS FIXED FORM, INCL. JT-FIN-CUR	1	SY	\$70.00	
	10" THK REINFORCED CONC, 4.5 PSI, 12' PASS FIXED FORM, INCL. JT-FIN-CUR	1	SY	\$78.00	
	<u>BASE COURSE DRAINAGE LAYERS for ROADWAYS &amp; LARGE PAVED AREAS - INCL. MATERIAL, TRANSPORTATION, EQUIPMENT, &amp; COMPACTION, EXCL. EARTHWORK (CUT &amp; FILL)</u>				
85110	1-1/2" DEEP CRUSHED STONE BASE, COMPACTED, NO EARTHWORK				
	4" DEEP CRUSHED STONE BASE, COMPACTED, NO EARTHWORK	1	SY	\$6.50	
	6" DEEP CRUSHED STONE BASE, COMPACTED, NO EARTHWORK	1	SY	\$9.10	
	8" DEEP CRUSHED STONE BASE, COMPACTED, NO EARTHWORK	1	SY	\$12.00	
	12" DEEP CRUSHED STONE BASE, COMPACTED, NO EARTHWORK	1	SY	\$17.00	
85110	<u>BANK RUN GRAVEL BASE COURSE, SPREAD &amp; COMPACTED, INCL. MATERIAL, TRANSPORTATION, EQUIPMENT, EXCL EARTHWORK</u>				
	6" DEEP, BANK RUN GRAVEL BASE, SPREAD & COMPACTED, NO EARTHWORK	1	SY	\$6.30	
	9" DEEP, BANK RUN GRAVEL BASE, SPREAD & COMPACTED, NO EARTHWORK	1	SY	\$9.20	

**UNIT COSTS For SUPPORT FACILITIES**  
**PAX Newsletter 3.2.2, Part - II, dated 2 May 2013**

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<u>CAT CODE</u>	<u>ITEM</u>	<u>QUANTI TY</u>	<u>UNIT</u>	<u>UNIT COST \$/UNIT</u>	<u>REMARK</u>
	12" DEEP, BANK RUN GRAVEL BASE, SPREAD & COMPACTED, NO EARTHWORK	1	SY	\$12.00	
85110	<u>BITUMINOUS CONCRETE BASE COURSE</u> , PLANT MIX ASPHALTIC BASE COURSE, NO EARTHWORK INCLUDED				
	4" THICK BITUMINOUS CONC. BASE, PLANT MIX, NO EARTHWORK	1	SY	\$19.00	
	6" THICK BITUMINOUS CONC. BASE, PLANT MIX, NO EARTHWORK	1	SY	\$27.00	
	8" THICK BITUMINOUS CONC. BASE, PLANT MIX, NO EARTHWORK	1	SY	\$36.00	
	10" THICK BITUMINOUS CONC. BASE, PLANT MIX, NO EARTHWORK	1	SY	\$45.00	
85110	<u>CONCRETE CURB &amp; GUTTER</u> , INCL. STRAIGHT WOOD FORM, NO EARTHWORK INCLUDED				
	6" HIGH CURB, 6" THICK GUTTER, 24" WIDE, CAST IN PLACE CONC. 0.055 CY/LF	1	LF	\$26.00	
	6" HIGH CURB, 6" THICK GUTTER, 30" WIDE, CAST IN PLACE CONC, 0.066 CY/LF	1	LF	\$29.00	
	6" HIGH, 18" WIDE PRE-CAST CONCRETE	1	LF	\$18.00	
85110	<u>SURFACE TREATMENTS</u>				
	TACK COAT, ELMUSION, 0. 15 GALLONS/ 1000 SY	1	SY	\$2.10	
	SLURRY SEAL, TYPE II, 12 lb AGGREGATE/ SY		SY	\$5.20	
	PVMT MARKING, 4" WIDE WHITE OR YELLOW ACRYLIC WATERBORNE PAINT< 3000 LF	1	LF	\$0.30	
85220	<u>SIDEWALKS &amp; WALKWAYS</u> FOR PEDESTRIAN, WITH BASECOURSE, INCLUDING GRADING & FORMING. SEE CC 85110 FOR DRIVEWAYS & ROADS				
	6'x 6'x 4" THK CIP CONCRETE, 3000 PSI, W1.4 x W1.4 MESH, BROOMED FIN	1	SY	\$58.00	
	2-1/2" ASPHALT CONCRETE w/ BASE	1	SY	\$41.00	
86010	<u>RAILROAD TRACKS W/TIES AND BALLAST</u> FOR STANDARD GAUGE. TRACK IS DEFINED AS A SINGLE PAIR OF RAILS,				
	RAILROAD TRACKS W/ WOOD TIES IN CONC W/ 100 LB RAIL, INCLUDES BALLASTS, CLIPS, ANGLES, BARS & BOLTS.	1	LF	\$268.00	
87110	<u>STORM SEWER</u> - TO CARRY STORM WATER RUNOFF; INCLUDES EXCAVATION & BACKFILL. TYPICALLY STORM WATER DRAIAGE SYSTEM WILL CONSISTS OF DRAINAGE INLET, RETENTION BASINS, PIPELINES, ACCESS MANHOLES, & OTHER COMPONENTS				
87110	<u>CORRUGATED METAL PIPE (CMP)</u> , 16 GA, INCL. EXCAVATION & BACKFILL				



**UNIT COSTS For SUPPORT FACILITIES**  
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	8" DIA. CMP, 16 GA, GALV & BITUMINOUS COATED W/ 20' LENGTH PAVED INVERT	1	LF	\$29.00	
	10" DIA, 16 GA, GALV & BITUMINOUS COATED W/ 20' LENGTH PAVED INVERT	1	LF	\$32.25	
	12" DIA, 16 GA, GALV & BITUMINOUS COATED W/ 20' LENGTH PAVED INVERT	1	LF	\$36.75	
	15" DIA, 16 GA, GALV & BITUMINOUS COATED W/ 20' LENGTH PAVED INVERT	1	LF	\$40.40	
	18" DIA, 16 GA, GALV & BITUMINOUS COATED W/ 20' LENGTH PAVED INVERT	1	LF	\$44.00	
	24" DIA, 16 GA, GALV & BITUMINOUS COATED W/ 20' LENGTH PAVED INVERT	1	LF	\$51.80	
	30" DIA, 16 GA, GALV & BITUMINOUS COATED W/ 20' LENGTH PAVED INVERT	1	LF	\$72.55	
	36" DIA, 16 GA, GALV & BITUMINOUS COATED W/ 20' LENGTH PAVED INVERT	1	LF	\$82.82	
	60" DIA, 16 GA, GALV & BITUMINOUS COATED W/ 20' LENGTH PAVED INVERT	1	LF	\$159.30	
87110	<u>NON-REINFORCED (NR) CONCRETE PIPE, INCL. EXCAVATION &amp; BACKFILL</u>				
	6" DIA, NR CONC PIPE, EXTRA STRENGTH, B&S OR T&G JOINTS			\$33.15	
	10" DIA, NR CONC PIPE, EXTRA STRENGTH, B&S OR T&G JOINTS			\$34.75	
	12" DIA, NR CONC PIPE, EXTRA STRENGTH, B&S OR T&G JOINTS			\$37.80	
	18" DIA, NR CONC PIPE, EXTRA STRENGTH, B&S OR T&G JOINTS			\$51.80	
	24" DIA, NR CONC PIPE, EXTRA STRENGTH, B&S OR T&G JOINTS			\$73.55	
	36" DIA, NR CONC PIPE, EXTRA STRENGTH, B&S OR T&G JOINTS			\$73.60	
87110	<u>REINFORCED CONCRETE PIPE (RCP), INCL. EXCAVATION, BACKFILL &amp; GASKETS</u>				
	12" DIA RCP 6" LENGTHS, CLASS 3, INCL EXCAVATION, BACKFILL & GASKETS	1	LF	\$46.10	
	18" DIA RCP 6" LENGTHS, CLASS 3, INCL EXCAVATION, BACKFILL & GASKETS	1	LF	\$59.05	
	24" DIA RCP 8" LENGTHS, CLASS 3, INCL EXCAVATION, BACKFILL & GASKETS	1	LF	\$77.20	
	36" DIA RCP 8" LENGTHS, CLASS 3, INCL EXCAVATION, BACKFILL & GASKETS	1	LF	\$142.00	
	60" DIA RCP 8" LENGTHS, CLASS 3, INCL EXCAVATION, BACKFILL & GASKETS	1	LF	\$263.20	
87110	<u>SELECTIVE DEMOLITION OF WATER &amp; SEWAGE PIPES, INCL DEMOLITION OF PIPES &amp; FITTINGS, EXCL EXCAVATION</u>				
	CONC. PIPE, 42"- 48" DIA, INCL DEMOLITION OF PIPES & FITTINGS, EXCL EXCAVATION	1	LF	51.30	
	CONC PIPE, 60"- 84" DIA, INCL DEMOLITION OF PIPES & FITTINGS, EXCL EXCAVATION	1	LF	61.65	
	DUCTILE IRON PIPE, 6"- 12" DIA, INCL DEMO OF PIPES & FITTINGS, EXCL EXCAVATION	1	LF	18.85	

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	DUCTILE IRON PIPE, 14"- 24" DIA, INCL DEMO OF PIPES & FITTINGS, EXCL EXCAVATION	1	LF	27.45	
	COPPER PIPE, 3/4" - 2" DIA, INCL DEMO OF PIPES & FITTINGS, EXCL EXCAVATION	1	LF	2.60	
	COPPER PIPE, 2 1/2" - 3" DIA, INCL DEMO OF PIPES & FITTINGS, EXCL EXCAVATION	1	LF	4.35	
87210	<u>INDUSTRIAL CHAIN LINK FENCING &amp; WALLS</u>				
87210	<u>GALVANIZED STEEL FENCE, 2" POSTS @ 10' O.C., 9 GAUGE WIRE, SCHEDULE 40, INCL. 3 STRAND BARBED WIRE, EXCAVATION &amp; CONC.</u>				
	4' HIGH, 9 GA GALV STEEL SCH. 40 WIRE, w/ 2" POSTS @ 10' O.C. & BARBED WIRE	1	LF	\$25.00	
	6' HIGH 9 GA GALV STEEL SCH. 40 WIRE, w/ 2" POSTS @ 10' O.C. & BARBED WIRE	1	LF	\$29.50	
	8' HIGH 9 GA GALV STEEL SCH. 40 WIRE, w/ 2" POSTS @ 10' O.C. & BARBED WIRE	1	LF	\$39.35	
	10' HIGH 9 GA GALV STEEL SCH. 40 WIRE, w/ 2" POSTS @ 10' O.C. & BARBED WIRE	1	LF	\$42.50	
	<u>FENCE TOPPING</u>				
87210	BARBED WIRE, STAINLESS STEEL, HELICAL RAZOR TYPE, 18" DIA x 18" DIA SPACING	100	LF	\$543.00	
87250	<u>ENTRANCE GATES, INCLUDES EXCAVATION &amp; CONCRETE</u>				
	GATE CHAIN LINK, 4' WIDE, 6' HIGH, SCHEDULE 20 9 GA, W/ 2" POSTS	1	EA	\$272.00	
	GATE 6' HIGH, 12' WIDE OPENING, SINGLE SWING, MANUAL OPERATION	1	EA	\$818.00	
	GATE 6' HIGH, 12' WIDE OPENING, SINGLE SWING, MOTOR OPERATED	1	EA	\$6,143.00	Added \$5,325
	GATE 24' PAIR, 6' HIGH, DOUBLE SWING, MANUAL	1	EA	\$1,187.00	
	GATE 24' PAIR, 6' HIGH, DOUBLE SWING, MOTOR OPERATED	1		\$6,512.00	Added \$5,325
	GATE 36' PAIR, 6' HIGH, SLIDING, DOUBLE, MANUAL	1	EA	\$1,978.00	
	GATE 36' PAIR, 6' HIGH, SLIDING, DOUBLE SLIDE, MOTOR OPERATED	1		\$7,378.00	Add \$5,400
87250	<u>CHAIN LINK FENCE GATE, INDUSTRIAL, INCLUDES EXCAVATION &amp; CONCRETE</u>				
	4' HIGH FENCE, GATE 3' WIDE OPENING, 6' HIGH GALV STEEL 1-5/8" FRAME	1	EA	\$282.00	
	6' HIGH FENCE, GATE 3' WIDE OPENING, 6' HIGH GALV STEEL 1-5/8" FRAME	1	EA	\$401.00	
	8' HIGH FENCE, GATE 3' WIDE OPENING, 6' HIGH GALV STEEL 1-5/8" FRAME	1	EA	\$538.00	
	GATE 10' WIDE OPENING, DOUBLE SWING, 8' HIGH	1	EA	\$1,503.00	

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	GATE 24' WIDE OPENING, CANTILEVER TYPE, 8' HIGH		EA	\$1,503.00	
87250	<u>SELECTIVE DEMOLITION - CHAIN LINK FENCE &amp; GATES</u>				
	3' - 4' HIGH FENCE	1	LF	\$1.95	
	5' HIGH FENCE	1	LF	\$2.20	
	12' HIGH FENCE	1	LF	\$4.90	
	3' - 4' WIDE GATE	1	LF	\$65.00	
88040	AT/FP - VEHICULAR BARRIER - SEE AT THE END				
89240	<u>FIRE HYDRANTS, INCL. EXCAVATION, BACKFILL, PIPING &amp; CONNECTION TO MAIN LINE</u>				
	4-6" DEPTH, 2 WAY 4-1/2" CUT-OFF VALVE, INCL. PIPING & CONNECTION TO MAIN LINE	1	EA	\$3,772.00	
	6' DEPTH, 2 WAY 4-1/2" CUT-OFF VALVE, INCL. PIPING & CONNECTION TO MAIN LINE	1	EA	\$4,009.00	
	8' DEPTH, 2 WAY 4-1/2" CUT-OFF VALVE, INCL. PIPING & CONNECTION TO MAIN LINE	1	EA	\$4,141.00	
93210	<u>SITE CLEARING &amp; GRADING - CLEARING</u>				
	CLEAR BRUSH AND STUMP	1	SY	\$1.45	
	LIGHT TREES TO 6" DIAMETER, CUT, GRUB & REMOVE STUMPS & HAUL	1	ACRE	\$4,906.00	
	MEDIUM TREES TO 12" DIAMETER, CUT, GRUB & REMOVE STUMPS & HAUL	1	ACRE	\$6,989.00	
	HEAVY TREES TO 24" DIAMETER, CUT, GRUB & REMOVE STUMPS & HAUL	1	ACRE	\$16,350.00	
93210	<u>SITE CLEARING &amp; GRADING - GRADING</u>				
	ROUGH FILL DUMPED, SPREAD BY DOZER, NO COMPACTION, LOOSE	1	SY	\$2.40	
	FINE FINISHED - COMPACTED, +/- 1" COMPACTION, 3 PASSES 6" LIFT WITH DOZER	1	SY	\$2.00	
93210	<u>SITE CLEARING &amp; GRADING - BORROW, INCLUDES LOAD AT PIT &amp; HAUL UPTO 4 MILES ROUND TRIP, NO COMPACTION</u>				
	FLY ASH, SPREAD W/ DOZER, LOAD AT PIT UPTO 4 MILES RT, NO COMPACTION	1	CY	\$55.00	
	BANK RUN GRAVEL, SPREAD W/ DZR, LOAD AT PIT UPTO 4 MILES RT, NO COMPACT	1	CY	\$48.00	
	SAND, SPREAD W/ DOZER, LOAD AT PIT UPTO 4 MILES RT, NO COMPACTION	1	CY	\$53.00	

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	GRAVEL, SPREAD W/ DOZER, LOAD AT PIT UPTO 4 MILES RT, NO COMPACTION	1	CY	\$36.00	
	COMMON FILL, SPREAD W/ DOZER, LOAD AT PIT UPTO 4 MILES RT, NO COMPACT	1	CY	\$28.50	
	SILT CLAY, SPREAD W/ DOZER, LOAD AT PIT UPTO 4 MILES RT, NO COMPACTION	1	CY	\$22.25	
	<u>LANDSCAPE AND PLANTING</u>				
93220	<u>SOIL PREPARATION - TOP SOIL (TS)</u>				
	MIX & SPREAD CONDITIONED TOP SOIL, SPREAD 4" DEEP BY HAND	1	SY	\$8.80	
	SPREAD FERTILIZER 0.2#/SY BY TRACTOR SPREADER	1,000	SF	\$11.00	
	HAUL & SPREAD TOP SOIL, 6" TRUCK DUMPED, INCL. MATERIAL, HAUL & PLACEMENT	1	CY	\$8.20	
	STRIP TOPSOIL & STOCKPILE 6" DEEP BY 200 HP DOZER, 200' HAUL ON SITE	1	SY	\$0.50	
93220	<u>SOIL PREPARATION - MULCHING</u>				
	HAY, 1" DEEP, POWER MULCHER	1,000	SY	\$48.00	
	PEAT MOSS, 1" DEEP, TRACTOR SPREADER	1,000	SY	\$380.00	
	WOOD CHIPS, 2" DEEP, SKID STEER LOADER	1,000	SY	\$375.00	
	WOOD CHIPS, 2" DEEP, HAND SPREAD - SMALL AREA	1	SY	\$4.40	
93220	<u>LANDSCAPE &amp; PLANTING - GRASS</u>				
	SEEDING - TALL FESCUE, 5.5 LB/1000 SF, TRACTOR SPREAD	1,000	SF	\$33.00	
	SEEDING - BLUE GRASS, 4LB/1000 SF, HYDRO OR AIR SEEDING W/ FERTILIZER	1,000	SF	\$53.00	
	SODDING - 1" DEEP BLUEGRASS SOD, LEVEL GROUND	1,000	SF	\$564.00	
93220	<u>LANDSCAPE &amp; PLANTING - PLANTING BED PREPARATION</u>				
	EXCAVATE PLANTING PIT, SANDY SOIL, 1/2 CY, BACKHOE	1	CY	\$10.00	
	MIX PLANTING SOIL, SKID STEER LOADER, INCLUDES LOAM	1	CY	\$61.00	
	REMOVE SOD, ARTICULATED LOADER	1	SY	\$0.60	

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93220	LANDSCAPE & PLANTING - <u>GROUND COVER</u>				
	PLANTAIN LILY (Hemerocallis Hybrids), ZONE 4, CONTAINER, 1 QUART		EA	\$23.00	
	MOSS OR CREEPING PHLOX (Phlox Subulata), ZONE 4, CONTAINER, 1 GALLON		EA	\$23.00	
	STONECROP (Sedum), ZONE 4, CONTAINER, 1 GALLON		EA	\$21.00	
93220	LANDSCAPE & PLANTING - <u>SHRUBS, BALLED &amp; BURLAPED (B&amp;B)</u>				
	AZALEA EVERGREEN HYBRIDS, ZONE 6, CONTAINER B&B, 3 GALLONS	1	EA	\$62.00	
	COMMON BOXWOOD (Buxus Sempervirens), ZONE 5, CONTAINER B&B, 18" - 24"	1	EA	\$82.00	
	WINGED BURNING BUSH (Eunymus Alatus), ZONE 4, CONTAINER B&B, 18" - 24"	1	EA	\$57.00	
	BLUE HOLLY ( Ilex Meserve Blue Holly Hybr), ZONE 5, CONTAINER B&B, 18" - 24"	1	EA	\$63.00	
	OJM RHODODENDRON, ZONE 4, CONTAINER B&B, 18" - 24"	1	EA	\$75.00	
93220	LANDSCAPE & PLANTING - <u>DECIDUOUS TREES, BALLED &amp; BURLAPED (B&amp;B)</u>				
	RED MAPLE (Acer Rubrum), ZONE 4, CONTAINER B&B, 1-1/2" - 2" CALIPER	1	EA	\$265.00	
	AMERICAN BEECH (Fagus Grandiflora), ZONE 3, CONTAINER B&B, 1-1/2" - 1-3/4" CALIPER	1	EA	\$327.00	
	LOMBARDY POPLAR (Populus Nigra Italica), ZONE 4, CONTAINER B&B, 5 GALLON	1	EA	\$114.00	
	RED OAK (Quercus Rubra), ZONE 4, CONTAINER B&B, 5 GALLON	1	EA	\$78.00	
93220	LANDSCAPE - <u>SUBSURFACE DRIP IRRIGATION (SDI)</u>				
	IRRIGATED AREA - LARGE LINE, HAND BURY, PREINSERTED EMITTER, LOOPED GRID	1	LF	\$0.90	
	IRREGULAR IRRIGATED AREA -LOOPED GRID IN TRENCH, HAND BURY, PREINSERTED EMITTER		LF	\$0.50	
	UNDERGROUND SPRINKLERS FOR GOLF COURSE w/ FULLY AUTOMAIC SYS,	9	HOLES	\$247,930.00	
	UNDERGROUND SPRINKLERS, RESIDENTIAL SYSTEM FOR LAWNS	1	SF	\$1.40	
93310	<u>DEMOLITION W/ DISPOSAL, BUILDING, GUTTING COMPLETE BLDG- INCLUDES 20 MILE HAUL. EXCLUDES FOUNDATION DEMOLITION, HAZARDOUS MATERIAL DEMOLITION, SALVAGE/RECYCLE &amp; DUMP FEES. VOLUME (CF) IS THE VOLUME OF THE ENTIRE BUILDING</u>				
	CONCRETE STRUCTURE (LARGE URBAN PROJECT)	1	CF	\$0.50	

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	STEEL FRAME BUILDING - SMALL OR SINGLE BLDG	1	CF	\$0.40	
	MASONRY OR WOOD FRAME - SMALL OR SINGLE	1	CF	\$0.40	
93310	<u>SELECTIVE DEMOLITION - BUILDING</u> , EXCLUDES DISPOSAL COST, RUBBISH HANDLING COSTS, SALVAGE & DUMP FEES				
	DEMOLITION OF BLDG FOOTINGS & FOUNDATION, FLOOR & CONC. SLAB ON GRADE UPTO 6" THICK	1	SF	\$2.40	
	GUTTING COMMERCIAL BLDG. INTERIOR, NO HAZARDOUS MATERIAL DEMO, DUMPSTER FEES	1	SF	N/A	
	LEAD BASED PAINT (LBP) REMOVAL & DISPOSAL		SF	N/A	
	NOTE: LBP 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 LANDFILL.				
93310	RUBBISH HANDLING - DUMPSTER FEES (AVERAGE FEE OF ALL SIZES)	1	TON	\$101.00	
93310	<u>DEMOLITION - PAVEMENTS</u> , REMOVE PAVEMENT & CURB, EXCLUDES HAULING & DISPOSAL FEES				
	6" THK CONCRETE PVMT & CURB, MESH REINFORCED, NO HAUL /DISPOSAL FEE	1	SY	\$16.00	
	7" - 24" THICK PLAIN CONCRETE, NO HAUL /DISPOSAL FEE	1	CY	\$127.00	
	7" - 24" CONCRETE, ROD REINFORCED, NO HAUL /DISPOSAL FEE	1	CY	\$173.00	
	REMOVE 3" BITUMINOUS CONC. PAVEMENT, NO HAUL /DISPOSAL FEE	1	SY	\$6.10	
	REMOVE PLAIN CONCRETE CURBS, NO HAUL /DISPOSAL FEE	1	LF	\$5.50	
93410	<u>CUT AND FILL</u> : BCY = BANKED CUBIC YARDS, ECY = EMBANKMENT CY, LCY = LOOSE CY				
	<u>EXCAVATION</u> , COMMON EARTH:				
	EXCAVATION, 105 HP BULK DOZER, OPEN SITE, 150' HAUL	1	BCY	\$5.70	BANKED CY
	EXCAVATION, 300 HP BULK DOZER, OPEN SITE, 150' HAUL	1	BCY	\$3.70	
	EXCAVATION, 700 HP BULK DOZER, OPEN SITE, 150' HAUL	1	BCY	\$2.00	
	EXCAVATION, TRENCH-MACHINE, 12 HP, CHAIN TRENCHER 18" WIDE, 6' DEEP	1	BCY	\$1.30	
	EXCAVATION TRENCH BY HAND, 2 TO 6 FT DEEP, HEAVY SOIL, PICK & SHOVEL	1	BCY	\$116.00	

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93410	BACKFILL- 200 HP DOZER, STRUCTURAL CLAY, NO COMPACTION, 150' HAUL	1	LCY	\$2.50	LOOSE CY
93410	BACKFILL,TRENCH DOZER 6"- 12" LIFT, SHIPFOOT ROLLER COMPACTION	1	ECY	\$4.50	EMBANKMENT
93410	BACKFILL BY DOZER & ROLLER COMPACTION, IN 12" LAYERS	1	ECY	\$7.20	
93410	BACKFILL HEAVY SOIL BY HAND, COMPACTED	1	LCY	\$44.00	
93410	<u>EXCAVATION &amp; BLASTING</u>				
	BLASTING & DRILL - HARD ROCK BY MACHILE DRILL, DEEP HOLE METHOD	1	BCY	\$71.00	BANKED CY
	EXCAVATION - SHALE, MEDIUM HARD, 100 HP RIPPER DOZER & LOAD	1	BCY	\$53.00	
	EXCAVATION OF ROCK BY HAND OR AIR TOOL - MINOR STRUCTURES	1	BCY	\$157.00	
88040	<u>AT/FP VEHICULAR BARRICADES</u>				
	Barrier Standards				
	SD-STD-02.01 specifies perpendicular barrier impact by a 15,000 lb. (6810 kg) vehicle "K" indicates the Dept of State certified barrier's maximum vehicle impact speed rating "L" indicates the test vehicle's distance of penetration upon impact with barrie				
	K12 = 50 mph (880 kph) K8 = 40 mph (65 kph) K4 = 30 mph (48 kph)		L3 = 3 ft. (915 mm) L2 = 3 ft. to 20 ft. (915 mm to 6.1 m) L1 = 20 ft. to 50 ft. (6.1 m to 15.3 m)		
	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 loo				
88040	<u>VEHICLE BARRIER</u> -CONCRETE PLANTER, STOPS 4000 LB VEHICLE AT 40 MPH (K-8)				
	36" DIA x 30" HIGH (ROUND), 4000 LB VEHICLE AT K-8, AGGR FIN, NO FILL MATERIAL	1	EA	\$754.00	
	96" L x 24" W x 36" H, 4000 LB VEHICLE AT K-8, AGGR FIN, NO FILL MATERIAL	1	EA	\$1,034.00	
	84" DIA X 36" HIGH, 4000 LB VEHICLE AT K-8, AGGR FIN, NO FILL MATERIAL	1	EA	\$1,767.00	
	DECORATIVE GEOMETRIC DESIGN, 96" L x 24" W x 36" H, 4000 LB VEHICLE AT K-8	1	EA	\$986.00	

**UNIT COSTS For SUPPORT FACILITIES**  
**PAX Newsletter 3.2.2, Part - II, dated 2 May 2013**

<b>APPENDIX A, SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).</b>					
<b>NOTE: The Support Facilities Unit Costs are for guidance only. Adjustment to these UCs are allowed when local cost data are available with back-ups</b>					
<u>CAT CODE</u>	<u>ITEM</u>	<u>QUANTI TY</u>	<u>UNIT</u>	<u>UNIT COST \$/UNIT</u>	<u>REMARK</u>
88040	<u>GLASS FIBER REINFORCED CONCRETE (GFRC) SECURITY BARRIERS, 4000 LB VEHICLE AT K-8, AGGR FIN, NO FILL MATERIAL</u>				
	CONCRETE FILLED GFRC, DECORATIVE IMPALER, 10' SECTION, INCLUDES SITE PREPRATION ON BARE GROUND	1	EA	\$3,000.00	
	CONCRETE FILLED GFRC, DECORATIVE IMPALER, 12' SECTION, INCLUDES SITE PREPRATION ON BARE GROUND	1	EA	\$3,500.00	
	GFRC DECORATIVE JERSEY BARRIER COVER, 12' SECTION, EXCLUDES FILL MATERIALS (SOIL)	1	EA	\$1,500.00	
	PAINTED PIPE BOLLARD, 8' L x 4' D EEP HOLE, 8" DIA, CONCRETE FILLED, STOPS 4000 LB VEHICLE AT 40 MPH (K-8)	1	EA	\$1,270.00	
88040	<u>CRASH BARRIERS, STOPS 15000 LB VEHICLE @ 50 MPH (K-12), INCL COMPLETE LABOR, MATERIAL &amp; EQUIPMENT(LM&amp;E) FOR INSTALLATION</u>				
	20' WIDE DROP ARM CRASH BARRIER, INCL ML&E FOR INSTALLATION	1	EA	\$75,960.00	
	24' WIDE DROP ARM CRASH BARRIER, INCL ML&E FOR INSTALLATION	1	EA	\$101,810.00	
	12' WIDE PORTABLE WEDGE CRASH BARRIER, INCL ML&E FOR INSTALLATION	1	EA	\$134,510.00	
	20' WIDE SLIDING ROLLER CRASH BARRIER, INCL ML&E FOR INSTALLATION	1	EA	\$238,430.00	
	20' W SLIDING CANTILEVER CRASH BARRIER	1	EA	\$238,430.00	
	10' WIDE, RAISED BOLLARD CRASH BARRIER, STANDARD POWER	1	EA	\$47,050.00	
	12' WIDE, RAISED BOLLARD CRASH BARRIER, STANDARD POWER	1	EA	\$53,810.00	
	10' WIDE, RAISED BOLLARD CRASH BARRIER, SOLAR POWER	1	EA	\$56,970.00	
	12' WIDE, RAISED BOLLARD CRASH BARRIER, SOLAR POWER	1	EA	\$62,770.00	
	INGROUND TIRE SHREDDER, 15' WIDE, INCL ML&E FOR INSTALLATION	1	EA	\$52,640.00	



**CHART C, METRIC/ENGLISH SYSTEMS**

<b><u>QUANTITY</u></b>	<b><u>FROM</u></b>			<b><u>TO OBTAIN</u></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	
ENERGY -					
HEAT &	kilowatthour		3.600000	megajoule	
WORK	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 (UFC 3-700- 01, Table 4-2), PAX Newsletter 3.2.2, dated 5 May 2013**  
**TRI-SERVICE MILITARY CONSTRUCTION PROGRAM (MCP) INDEX FOR FY 2014-18 PROGRAMS**  
**Based on Annual Rates for Budget Authority Published by USD (Comptroller), dated 27 February 2013**

<u>FISCAL YEAR (FY)</u>	<u>DATES</u>	<u>INDEX</u>	<u>ESCALATION PERCENTAGE FOR FISCAL YEAR</u>
<b>FY 2011</b>	<b>1-Oct- 2010</b> -----	<b>2528</b>	-----FY11
	1-Jan- 2011 -----	2540	
	1-Apr- 2011 -----	2552	
	1-Jul- 2011 -----	2564	
<b>FY 2012</b>	<b>1-Oct- 2011</b> -----	<b>2576</b>	-----FY12 (1.9%)
	1-Jan- 2012 -----	2589	
	1-Apr- 2012 -----	2601	
	1-Jul- 2012 -----	2613	
<b>FY 2013</b>	<b>1-Oct- 2012</b> -----	<b>2625</b>	-----FY13 (1.9%)
	1-Jan- 2013 -----	2638	
	1-Apr- 2013 -----	2650	
	1-Jul- 2013 -----	2663	
<b>FY 2014</b>	<b>1-Oct- 2013</b> -----	<b>2675</b>	-----FY14 (1.9%)
	1-Jan- 2014 -----	2688	
	1-Apr- 2014 -----	2701	
	1-Jul- 2014 -----	2714	
<b>FY 2015</b>	<b>1-Oct- 2014</b> -----	<b>2726</b>	-----FY15 (1.9%)
	1-Jan- 2015 -----	2739	
	1-Apr- 2015 -----	2752	
	1-Jul- 2015 -----	2765	
<b>FY 2016</b>	<b>1-Oct- 2015</b> -----	<b>2778</b>	-----FY16 (1.9%)
	1-Jan- 2016 -----	2792	
	1-Apr- 2016 -----	2805	
	1-Jul- 2016 -----	2818	
<b>FY 2017</b>	<b>1-Oct- 2016</b> -----	<b>2831</b>	-----FY17 (1.9%)
	1-Jan- 2017 -----	2845	
	1-Apr- 2017 -----	2858	
	1-Jul- 2017 -----	2872	
<b>FY 2018</b>	<b>1-Oct- 2017</b> -----	<b>2885</b>	-----FY18 (1.9%)
	1-Jan- 2018 -----	2899	
	1-Apr- 2018 -----	2913	
	1-Jul- 2018 -----	2927	
<b>FY 2019</b>	<b>1-Oct- 2018</b> -----	<b>2940</b>	-----FY19 (1.9%)

**Notes**

1. Use **1.9%** per fiscal year for projection beyond FY **2018**
2. Tri - Service MCP Index (1,000) = 1 October 1979 ENR Historical Building Cost Index (1,900)
3. The MCP indexes after 1 Oct 2011 were derived using the Price Escalation Indices (Annual Rates in Percentages) for Budget Authority published in the 27 Feb 2013 Inflation Guidance - Fiscal Year (FY) 2014 President's Budget.
4. This revised index table supersedes the MCP index table published as Appendix-C to PAX Newsletter 3.2.2, dated **28 Mar 2012**

**TABLE I - SIZE ADJUSTMENT FACTORS****PART I - BUILDING (OTHER THAN BARRACKS & FAMILY HOUSING)**

<u>SIZE RATIO</u>	<u>ADJUST FACTOR</u>	<u>SIZE RATIO</u>	<u>ADJUST FACTOR</u>	<u>SIZE RATIO</u>	<u>ADJUST FACTOR</u>	<u>SIZE RATIO</u>	<u>ADJUST FACTOR</u>
< 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**

<b>MILITARY FAMILY HOUSING PROJECT SIZE ADJUSTMENT FACTORS</b>		<b>BARRACKS/ DORMITORIES PROJECT SIZE ADJUSTMENT FACTORS</b>	
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		