

FAC 7602 MONUMENT AND MEMORIAL

FY24 SUC:	\$306.12 / EA
Source:	Inflated from previous FY using ENR labor and material cost indices to measure actual inflation
Original Source:	Commercial Sources, 2010

FAC 7602 MONUMENTS AND MEMORIALS

There are 2729 monuments and memorials in the inventory. This FAC is based on Army, Navy, Air Force CAC Codes which are titled 'monument and memorial' or 'outdoor monument and memorial'. This group includes "Items such as commemorative plaques, military equipment displays, statues, and the like." Assumption that all are free-standing outdoor facilities. (Note that this does not include facilities covered under FAC 7603 Cemeteries).

Size, material, age, components and level of required care vary widely within this category. Areas for cost research included specific maintenance costs for these items:

A. Commemorative plaque horizontal on ground or on a base ((Note that plaque and base may or may not be of the same material)

- Bronze/other metal
- Marble
- Composite
- Granite/other stone
- Glass/other material

B. Commemorative plaque vertical freestanding

- Bronze/other metal
- Marble
- Composite
- Granite/other stone
- Glass/other material

C. Statue/sculpture and base (Note that statue/sculpture and base may or may not be of the same material)

- Bronze/other metal
- Marble
- Composite
- Granite/other stone
- Masonry

D. Equipment display or other assembly of equipment which may be firefighters equipment, military equipment (planes, tanks, jeeps, etc.) or special equipment like Pentagon memorial benches and area, commemorative benches, shelter, etc. This usually includes informative plaques attached to equipment or free-standing.

ANNUAL MAINTENANCE PROGRAMS AND COST

For category A and B Commemorative/informative plaques flat and upright, small memorials or monuments (grave marker & tombstone as examples)

For most accessible information, researched maintenance, cleaning and minor repair costs and schedule for gravestones, tombstones, plaques, etc. as the closest match to

items in this category A/B. (EG. Arlington cemetery in 2007 had funding to clean memorials every other year, versus the desired practice of cleaning annually.)

Maintenance includes cleaning with material-appropriate products, removal of encroaching vegetation, inspection and documentation of changes in surface, all as described for statue/sculpture below.

Maintenance may include repainting or touch-up of lettering as needed. Maintenance may include photography, videography or other documentation for record-keeping on item condition.

Maintenance may require realigning, straightening, or even resetting due to subsidence or other ground disturbance caused by water, frost, vandals, animals, etc. A full resetting involves removal, new concrete base, curing and resetting, plus cleanup of work area – time up to 8 man-hours plus materials. The Connecticut Gravestone Network (2009) estimated average of \$1000 per tombstone to reset. (UK price (2010) to refix was estimated at 235 -423 pounds (\$369-\$664)– new dowels, ground anchor, bearer and drilling/preparing ground). This could be a restoration cost rather than maintenance, depending on circumstances and extent of work.

Depending on geographic area, item requirements and available funding, maintenance cleaning and minor repair may occur at 6, 12, 24 or 36 month intervals. (eg. Arlington cemetery in 2007 stated the cleaning of each memorial took place every 2 years)

Other Cost Sources:

In general, memorial cleaners quote between \$60-\$200, depending on size and material (internet search of multiple sources)

UK surface clean lawn memorial = 82 pounds (\$128), for traditional memorial (upright) \$152 pounds (\$237).

Stone and bronze marker \$60; Taller than 6" monument/memorial \$75-\$90 per visit; will provide estimates for bronze plaques, etc. (www.memorialcleaners.com)

Bronze markers refinished so the lettering is bright and the background is restored to its original brown color, by shipping them back to the manufacturer, or contracting with monument companies. Cost will run \$150 to \$200 for a single 2x1 foot marker.

In most cemeteries – the annual fee or maintenance fee covers site, and does NOT include maintenance of the tombstone (cleaning, minor repairs, etc) unless contracted as a separate charge thru memorial caretakers or cemetery. Assume maintenance for any monument or memorial in FAC 7602 is funded separately from site maintenance.

For Category C: Statues and Sculptures

For statues and sculptures, recommended maintenance includes **annual** regular washing with dilute solution of detergent, water rinse, soft brushes or sponges; inspection and documentation of changes in surface patina, pitting, streaking, corrosion, blanching, structural problems or damage; removal of encroaching vegetation to discourage bird, animal, insect or vandal damage; clearing of weep holes for drainage; repointing or minor repair structural repair; and application of protective coating as appropriate (wax, resin, paint, sealer, etc).

For bronze/metal statues – recommend professional cleaning and relacquering on a five to ten-year cycle, which may require removal and reinstallation of parts. Geographic location, materials, condition, and prior maintenance will determine the schedule.

Maintenance of the memorial may include covering or enclosure, fencing, seating or sidewalks, landscaped area, fountain, etc. which are intrinsic part of memorial. (Williamstown Art Conservation Center Technical Bulletin, Woodlawn Cemetery Maintenance Plan, Minnesota Mall Maintenance Report). Reported cost range which agrees with other sources:

1. Savannah - **\$1500** annually quoted by city official for cleaning of monument
2. Charlotte Dept of Transportation Queens Table Monuments and Four Sites (connected): Annual costs projected by city for maintenance of monument **\$1200** per year
3. City of NY Parks and Recreation: Typical annual maintenance for figural bronze **\$1000 to \$2000**

For Category D. Equipment Grouping

Complexity of maintenance within this group varies depending on components involved. Examples:

- Plaque plus several antique fire vehicles (DOD Firefighters Memorial, Goodfellow AFB)
- Plaque plus one or more tanks, planes, etc: Most military installations
- Individual benches and setting: pentagon memorial

NOTE ON OUTSIDE ASSISTANCE. Maintenance funding or actual maintenance MAY come from private sources, groups, individuals, or volunteers to supplement or even replace DOD O&M funding.

In private and local government practice, donors of a memorial **must guarantee** payment of future maintenance costs from endowment, trust fund, pre-payment, before the government agencies will accept donation of new or transferred existing property as memorials. This approach allows agencies to consider the overall public

benefit for taking the donation versus the long-term cost and budgeting capability to maintain the memorial/monument. This protects agencies from incurring unexpected and unjustifiable expenses over the expected life of the donation.

For new memorials proposals, expected maintenance costs are built into the overall project cost estimate, so that the full, rather than initial, cost to taxpayers is considered.

For existing or new DOD memorials, volunteers or interest groups with a strong vested interest in a monument/memorial have provided in-kind or financial support where DOD funding cannot offer the best level of care for the facility. Donations from these private sources, groups or individuals are NOT considered in determining the FAC 7602 SUC, but their participation can result in lower spending levels than DOD might otherwise incur.

Ten Years of Sculpture and Monument Conservation on the Minnesota State Capitol Mall, Paul Storch, Minnesota Historical Society, 2001

Annual Maintenance Program for Outdoor Sculpture, Williamstown Art Conservation Center, Technical Bulletin, 2009

Caring for Outdoor Bronze Plaques, National Park Service, 2005

Cleaning Gravestones, Monuments and Stone Sculptures, New England Cemetery Services, 2010

Connecticut Gravestone Network Newsletter, January 2009

DOD Firefighters Memorial, www.firehouse.com News, 2008

Monument Maintenance, <http://www.findstone.com/awmon.htm>, 2010

Gurnee Mayor Vetoes Veterans Memorial Deal, Daily Herald, 2010

Memorial Cleaners List of Services, Missouri, 2010

Guidelines for Donating Works of Art to City of New York/Parks and Recreation, 2010

Queen's Table Monuments, Presentation to Charlotte NC City Council, 2009

Lodge Brothers List of Services, UK, 2010

Woodlawn Lot Owner's Services, NYC, 2010



LODGE BROTHERS

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LODGE BROTHERS MEMORIALS

GENERAL INFORMATION	STONE TYPES	LAWN MEMORIALS	TRADITIONAL DESIGNS	KERBSET MEMORIALS	CREMATION MEMORIALS
SPECIAL MEMORIALS	LETTERING/ INSCRIPTIONS	RENOVATION/ MAINTENANCE	OTHER SERVICES	ORDERS/ ENQUIRIES	PRICES

✦ RENOVATION & MAINTENANCE ✦

When a memorial is to be renovated it is always necessary for one of our experienced staff to inspect the memorial before the work commences. We are then able to compile a report of all the work that will be needed in order to restore the memorial to its original condition.

The following prices are, therefore, a guide to the costs that may be involved. However, each enquiry will be dealt with individually and priced accordingly.

Our estimates are free of charge and our clients are under no obligation to accept them.



Cleaning

Surface clean Lawn Memorial (headstone & base) using chemicals	£82.25
Surface clean Traditional Memorial using chemicals	£152.75
Thoroughly clean Lawn Memorial using abrasive machines and chemicals	£152.75
Thoroughly clean Traditional Memorial using abrasive machines and chemicals	£305.50
Re-beat inscription	From £35.25

Please note, it is not always possible to use abrasive machines where there is existing lettering. Often the lettering would need to be re-cut or cleaned around using a sandblaster or scraper.



Re-fixing

NAMM Re-fix Lawn (including new dowels, ground anchor, bearer and drilling/preparing memorial)	£235.00
Re-fix Traditional Complete re-fix drilling and dowelling but joints (guide price only)	From £423.00

Lettering (Price per letter up to 1" high. Letters over 1" priced plus 50% per ¼")

Letter carver's call out fee		From £70.50
Sandblast technician call out fee		From £164.50
MARBLE	Sandblasted and Enamel Painted	£3.23
	Hand cut only	£3.23
	Hand cut and Enamel Painted	£3.84
	Hand cut and Lead Filled	£4.16
GRANITE	Sandblasted and Enamel Painted	£3.35
	Sandblasted and Gilded	£3.82

	Hand cut and Enamel Painted	£4.16
	Hand cut and Gilded	£4.77
	Raised Lead Enamel Painted	£8.04
	Raised Lead Gilded	£8.65
MARBLE & GRANITE	Re-Enamel Incised	£1.29
	Re-Gilded	£1.82

The methods used to create a cut, drilled and lead filled letter mean it is often not possible to replace just one or two letters. The process involved may lead to the loosening or misshaping of letters already present.



Memorial Interiors

The centre of many kerbset memorials are often filled with soil for planting. Families may move away and it can become difficult for them to maintain this area of the memorial. Our memorial staff are able to excavate the existing centre and lay any of the following in place of the soil:

Grey Granite Chippings on concrete chipping bed	£176.25
White Marble Chippings on concrete chipping bed	£193.88
Green, Cobalt Blue, Turquoise or White fossite chippings	£211.50



Maintenance

Where families have moved away or the upkeep of a grave is physically too difficult, we offer maintenance agreements on a 5 year contract basis. The memorial is visited twice a year, chemically cleaned, tidied around, levelled, joints re-pointed, photographed and a report made out on the condition of the memorial.

Please contact us if interested in taking out a maintenance agreement.

ALL PRICES ARE EXCLUSIVE OF V.A.T.



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Memorial Cleaners List of Services

Below is a listing of services offered. Gravesite beautification treatments and cleaning methods used on your monuments may vary depending on age, condition, type of stone, surface finish, and cemetery rules. This step is taken to preserve your memorials and cemetery surroundings.

Cleaning Price Chart Estimates and Descriptions

- All prices below are estimations and could vary depending on the job and the location.
- Please call or email us today for a fast, more accurate quote!
- These are cleaning prices only and do not include restoration services.

Services Offered		Pay Per Visit				Memorial Premium Service Plans					
		Initial Visit*		Follow-Up Visit**		One Year		Two Year		Three Year	
		Single	Double	Single	Double	Single	Double	Single	Double	Single	Double
Stone & Bronze Markers		\$60	\$75	\$40	\$45	\$140	\$165	\$220	\$255	\$300	\$345
Small to Medium Headstones	less than 4' tall	\$75	\$100	\$50	\$60	\$175	\$220	\$275	\$340	\$375	\$460
	4' & - 6' & tall	\$90	\$125	\$60	\$75	\$210	\$275	\$330	\$425	\$450	\$575
Large Headstones (taller than 6') Monuments & Memorials		Large headstones and monuments vary greatly in size and difficulty cleaning. It is impossible to make an estimated quote for every large headstone and monument. Please call us today for an accurate quote.								Call or email for an Estimate!	

Bronze Plaques	We take great care when cleaning your bronze plaque. We thoroughly examine the condition of the plaque, clean, wax and polish the surface ensuring a longer lifetime. We do offer full restorations for bronze plaques if needed, for more information visit our restoration page or give us a call.	Call or email for an Estimate!
Above Ground Tombs, Vaults and Sepulchers	Our above ground vault cleaning service is the same as our stone cleaning services but the prices will vary depending on location, stone age, condition and the size of the vault. Please call us for a more accurate vault cleaning quote.	Call or email for an Estimate!
Mausoleums & Columbariums	Our columbarium and mausoleum cleaning services carry the same excellence and dedication to preservation as our stone cleaning services but the prices will vary depending on location, stone age, condition and the size of the structure. Please call us for a more accurate mausoleum care quote.	Call or email for an Estimate!
Private or Family Cemeteries	Our services include mowing, trimming, clearing brush, minor landscaping, stone setting and leveling, memorial gravestone care and routine maintenance for private or family owned cemeteries.	Call or email for an Estimate!
Repair, Restoration & Deep Stain Removal	Our gravestone and monument restoration and repair services include mending, leveling and stone setting, along with surface restoration and deep stain removal. We can restore bronze plaques, place markers and bronze vases or urns. After our restoration service we highly recommend you schedule regular follow-ups to prevent your memorial from future deterioration.	Call or email for an Estimate!

***Initial Visit**

- All initial visits should be scheduled at least five days in advance unless specially requested.
- Express service may be available depending upon availability for an additional charge.
- Your initial visit will consist of the following, depending on the job. Vandalism and condition inspection, full thorough cleaning, polishing, surface stain removal, biocide treatment, grass trimming & edging, insecticide application, fresh flowers and digital before and after photos.
- If vacancies are available major holiday visits can be scheduled for "Pay Per Visit" first time customers on a first come basis.

****Follow-Up Visit**

- All follow up visits **must be scheduled within one year of the initial visit** to qualify for follow-up pricing.
- All follow-up visits should be scheduled at least five days in advance.
- Biocide treatments are performed with annual follow-up visits.
- A follow-up visit consists of the following, depending on the job. vandalism and condition inspection, light general cleaning, grass trimming, insecticide application, fresh flowers and digital before and after photos.
- If vacancies are available major holiday visits can be scheduled for "Pay Per Visit" follow-up customers on a first come basis.

Holiday Visit

- Holiday visits should be scheduled at least five days in advance.
- Holiday visits may be used for any special occasion like birthdays or major holidays such as Memorial Day or Mothers Day.
- Holiday visits will be given the normal follow-up visit care along with any special holiday requests or placements of flowers, candles, etc.
- Due to popular demand holiday visits are reserved for our Premium Service Plan customers exclusively unless specially requested.
- If vacancies are available major holiday visits can be scheduled for "Pay Per Visit" customers on a first come basis.

Memorial Premium Service Plans

[click here for pricing](#)

One Year Plan	Two Year Plan	Three Year Plan
<ul style="list-style-type: none">○ One initial visit.○ Two 6 month follow up visits.○ One customer choice holiday visit, to be scheduled within the one year service agreement term.	<ul style="list-style-type: none">○ One initial visit.○ Four 6 month follow up visits.○ Two customer choice holiday visits, to be scheduled within the two year service agreement term.	<ul style="list-style-type: none">○ One initial visit.○ Six 6 month follow up visits.○ Three customer choice holiday visits, to be scheduled within the three year service agreement term