

## 1. GENERAL

The work performed in this section is subject to the General Requirements which form a part of these specifications, and the Contractor shall be responsible for and governed by all the requirements there under.

### SCOPE

Work consists of receiving, providing and applying Lifetime Waterproofing Sealant, transporting and setting new/replacement Government Furnish Headstones on gravesites. Removing old iron stained headstone from gravesites as well as disposing of old/iron stained headstones and removing from cemetery. It includes reporting physical defects to the Contracting Officer Representative. Approximately 2249 headstones at Beaufort National Cemetery headstones will require sealing, replacement, resetting and realignment. (Approximately 250 per week).

Record Keeping and Reporting: The contractor's Superintendent or his designee shall provide the COR with daily written reports accurately identifying all headstones set and replaced listed by deceased names and numbers for each gravesite location.

### WORK OVERVIEW

This section outlines Headstone Removal, New Headstone Resetting and Old Headstone Disposal services as well as inventorying and assuring accurate placement on gravesites at the National Cemetery. The Contractor shall provide all supervision, professional advice/guidance, labor, parts, materials, equipment, transportation and personnel, to provide the services defined herein.

### RECORD KEEPING AND REPORTING

The Contractor's Superintendent or his designee shall provide the COR(s) with daily written accurate reports identifying the following: All headstones shall be recorded by listing cemetery section, deceased name and headstone number on paper for each gravesite location and in the consecutive order of each gravesite row. These lists will be provided by the Contractor daily to the COR, and shall identify all the above work that took place that day. The Contractor will provide the lists to the COR no later than 4:00 PM local for COR inspection and acceptance. The site manager will also provide upon request a plan of action for the upcoming week, regarding headstones, locations and specific areas where work is being scheduled to occur at

## 2. PROCEDURE: NEW REPLACEMENTS OF IRON-STAINED HEADSTONES

A. The responsibility for ordering new upright headstones, checking for proper wording and initial inspection for damages shall be that of the COR or his authorized representative.

Standard marble headstones are approximately 42 inches long, 13 inches wide, 4 inches thick, approximate weight: 230 pounds.

B. Government Furnish Headstones shall be received, picked up and transported from cemetery maintenance area by the Headstone Replacement Contractor. In transporting or storage of headstones, they shall be protected from the weather to avoid damage or staining. Each headstone shall be placed to rest on its long edge in a vertical free-standing position for easy accessibility. Several headstones may be stacked against the first headstone to conserve space with proper separation in all cases. If there is any breakage or damage in any form due to the Contractor's handling or negligence, the cost for replacement will be borne by the Contractor. The COR shall designate a suitable area for storage of the headstones at the National Cemetery. Defective headstones shall not be set. Replacement headstones will be ordered by the National Cemetery. **\*Note: At all times the gravesite needs to be properly marked. The contractor will remove the iron-stained Headstone from the Headstone socket, but will not remove the iron stained Headstone from the correct gravesite until the new or replacement headstone is properly set within the socket on the correct gravesite.**

C. The contractor should provide and apply one liberal coat of Lifetime Waterproofing Sealant (<http://coatingsinternational.com/products/lifetime>) to each headstone prior to transportation to the gravesite and setting of the headstone on the gravesite. Sealant to be applied per OEM recommendations. For the first 20 new headstones completed, contractor will have sealant OEM rep and COR on-site to approve the cleaning, sealing, and setting procedure including curing time(s). Lifetime Waterproofing Sealant can be applied by many methods to include Spraying with an airless at low pressure (not to exceed 500 PSI), brush, roller and/or pump-up garden sprayer. The contractor shall ensure application meets the 20-year warranty against leakage or water penetration. The COR shall designate a suitable area for storage and application of Lifetime Waterproofing Sealant of the headstones at the National Cemetery.

D. Measurements shall be taken from the layout control markers and not from headstones previously set. All upright headstones shall be set at a height of 24-26" inches from the finished grave to the top of the arc. Where headstones have been previously set at other heights above grade, but in general, at a uniform height throughout an area, and otherwise present a neat overall appearance with the inscription visible, resetting for the sole purpose of attaining the stated height is unnecessary. The nominal height of 24-26" inches given for the current standard of headstone setting is the standard height. Minor deviations in the less than nominal height are permissible to provide a uniform appearance in the top line to compensate for slight ground rises or depression within a burial section. Where a considerable number of adjacent headstones are reset in a section, and ground conditions are known to require an allowance for vertical settlement, an extra inch may be permissible in the above ground projection when the headstone is initially set.

E. The end headstones between irrigation aiseways will serve as the keystones for alignment of replaced stones between those markers. If those stones are to be replaced, they will be the last to be changed. Heavy strings or lines must run along the backs, sides, and tops of headstones. These lines are marked with the proper measurements- (size of section) for the section being aligned. All remaining headstones in the row are then aligned along the strings front to back

and side-to-side even with the measured marks on the line. Each headstone is also raised or lowered as necessary to ensure a uniform measurement of 24-26 inches above topsoil level. Each headstone is leveled and plumbed front to back and side-to-side keeping the back of the headstone along the string and the side of the headstone along the measured mark. Maximum vertical, lateral, and transverse tolerance of any headstone off the alignment string lines and/or marks shall be 1/8", or less.

F. The alignment of the headstones should be checked frequently during this process because the tamping may move the headstone out of level or off the mark on the line. This process of raising and realigning is repeated for each row of headstones. Headstones in all completed work areas shall be firmly set and anchored in place with no movement from forces subjected by the COR.

G. All Iron-stained headstones removed will be destroyed by the Contractor in a manner that obliterates the inscription and disposed of to prevent reuse. Resultant debris will be removed from the cemetery grounds by the Contractor.

H. Contractor personnel are responsible for the unloading of headstones from the delivery truck or onsite inscription contractor.

The contractor shall report on his weekly inspection report to the COR the following:

Number of headstones removed and what section  
\_\_\_\_\_ Upright, \_\_\_\_\_ Section

Number of headstones reset and realigned and section  
\_\_\_\_\_ Upright, \_\_\_\_\_ Section

If there is a problem with re-setting or realigning a specific headstone, a report shall be sent to the COR providing a detailed explanation, the reasons the headstone was not set or realigned.

If mechanical devices are used to lift new headstones, the Contractor shall use wooden and/or metal clamps. If metal clamps are used, the area that contacts the new headstone must be protected with a rigid fabric that will prevent damage to, and markings of, the headstone. Clamps may be attached to a skid steer loader (i.e. Bobcat) or similar machine. Use care not to scratch or damage new headstones in any manner.