REQUEST FOR QUOTATION (RFQ)# 140P8626Q0042

SCOPE OF WORK

SAN FRANCISCO MARITIME NATIONAL HISTORICAL PARK (Aquatic Park)

Tree and Irrigation Work in Aquatic Park (2026)

PART 1: GENERAL

1.01 DESCRIPTION

This scope of work outlines tree maintenance, installation and irrigation work to be performed throughout Aquatic Park. Work sites are all located within a 20-acre area and accessible by streets and park paths. Contractors shall make every effort to protect the historic landscape and fabric from damage. The contractor should be comfortable working in a variety of physical conditions. All tree *maintenance* tasks must be carried out by a tree service contractor who possesses both ISA Arborist certification and a C-49 (Tree and Palm) contractor's license. All irrigation work must be completed by a contractor who possesses either an A (General Engineering) or C-27 (Landscaping) contractor's license, as issued by the State of California. These requirements are necessary and ensure that all work is performed to professional standards. General location of work area is indicated at the end of this document.

1.02 GENERAL CONDITIONS AND INFORMATION

This property is owned by the Department of Interior, National Park Service, herein after called NPS, and are maintained by San Francisco Maritime National Historical Park, (SAFR). Care must be taken to protect and avoid negatively impacting the surrounding ornamental landscape, turfgrass area, irrigation system (as possible), street, paths and sidewalks. Damage to these areas will be repaired or replaced in-kind at Contractors expense. Work area is greatly impacted by pedestrian, bicycle and vehicle traffic. The contractor will be responsible for pedestrian, bicycle and vehicle traffic control/safety before, during and to close of the project to ensure public safety. Contractor will need to acquire needed permits where parking is required off park property.

Any particulars described for the work involved are given for guidance to the Contractor, however, the Contractor is to take their own measurements, dimensions, counts, and is responsible for the same. It is highly recommended that those interested attend the scheduled walk-through with the COR to identify trees to be serviced.

All work described in this specification is for removing trees/stumps, installing trees, and installing plumbed irrigation for each tree. All work is to be performed in accordance with the provisions of the NPS Contract and Scope of Work. Additional work that will result in additional cost shall be carried out only when authorized in writing by the Contracting Officer.

The Contractor shall be responsible for removing and disposing of any debris from the areas where work is performed and is generated by the Contractor.

The contractor is responsible for independently locating all utility lines, such as electric, gas, and water, without depending on the National Park Service for this information. This responsibility includes, but is not limited to, submitting an underground service alert (USAN 811) to identify utility locations. Should any damage occur to these utility lines during work, the contractor must complete all necessary repairs at their own expense, ensuring there is no cost to the government.

The Contractor shall immediately notify the Contracting Officer of any ambiguities, inconsistencies and errors discovered in this specification or between contracting documents and existing conditions.

PART 2: SCOPE OF WORK/ SERVICES

A. Tree maintenance/pruning:
Trees to be pruned: (12) *Cordyline Australis* (Dracaena Palm).

Tree contractor shall remove all diseased, damaged, dead and/or crossed branches, including all branches that pose a safety hazard for the public.

All tree sections/parts/components and debris material generated from work shall be removed and disposed of properly. Area shall be raked/broom-swept clean upon job completion. Contractor shall haul away and dispose of properly, all refuse generated by work. Work sites must be left in clean state.

Note: The NPS assumes all liability for any tree issues arising from adherence to the following maintenance direction:

Carefully remove all leaves up not having upward growth pulling each one completely off the tree, ensuring the branch surface remains smooth and neat. See the example pictures below.

Before:	After:

B. Tree removal:

12 Arbutus trees located on Jefferson Street shall be removed.

Tree Dismantling: As necessary, contractor shall dismantle the tree and place sections on the ground (using rigging/crane operations ***as needed***) so as not to negatively impact any surrounding landscape, hardscape and structures. Any damage caused to property during this work will be paid for at the contractor's expense.

Clean up: All tree sections/parts/components and debris material generated from work shall be removed and disposed of properly. Area shall be raked/broom-swept clean upon job completion.

Thirteen tree stumps with roots must be removed as needed to install the irrigation line and plant new trees. The contractor is responsible for identifying underground utilities—such as contacting USA North—to ensure the safety of the public and employees, and to prevent any interruption of utility services.

C. Tree replacement/planting:

13 *Magnolia grandiflora 'Little Gem'* trees are to be planted. Trees selected by contractor shall be 24" box trees; shall be healthy, disease/pest free; shall free of mechanical/environmental damage; shall be vigorous in growth; shall have a

central leader and need minimal pruning to correct any crossing limbs. Trees shall be stabilized with 2”x2” tree stakes (placed as far out perimeter if the root ball/drip line as possible). NPS Contracting Officer’s Representative must approve prior to planting.

Two-foot root barriers will be installed around the planting hole's perimeter and adjusted as needed for the irrigation line in the same area.

D. Irrigation installation:

Irrigation is to be provided for each of the new 13 trees located on Jefferson Street. To accomplish this the installation of subsurface/surface irrigation infrastructure is required. 375 feet of new line is needed to connect all tree wells to the existing POC. In addition, irrigation as depicted in detail below, shall be installed.

All irrigation infrastructure will be installed using trenchless construction methods (pneumatic boring or similar) is most appropriate approach given site conditions, spacing between tree wells, and the need to minimize impacts to the surrounding historic and high-use public environment, and the NPS’ requirement to complete this work with no demolition to the adjacent paving.

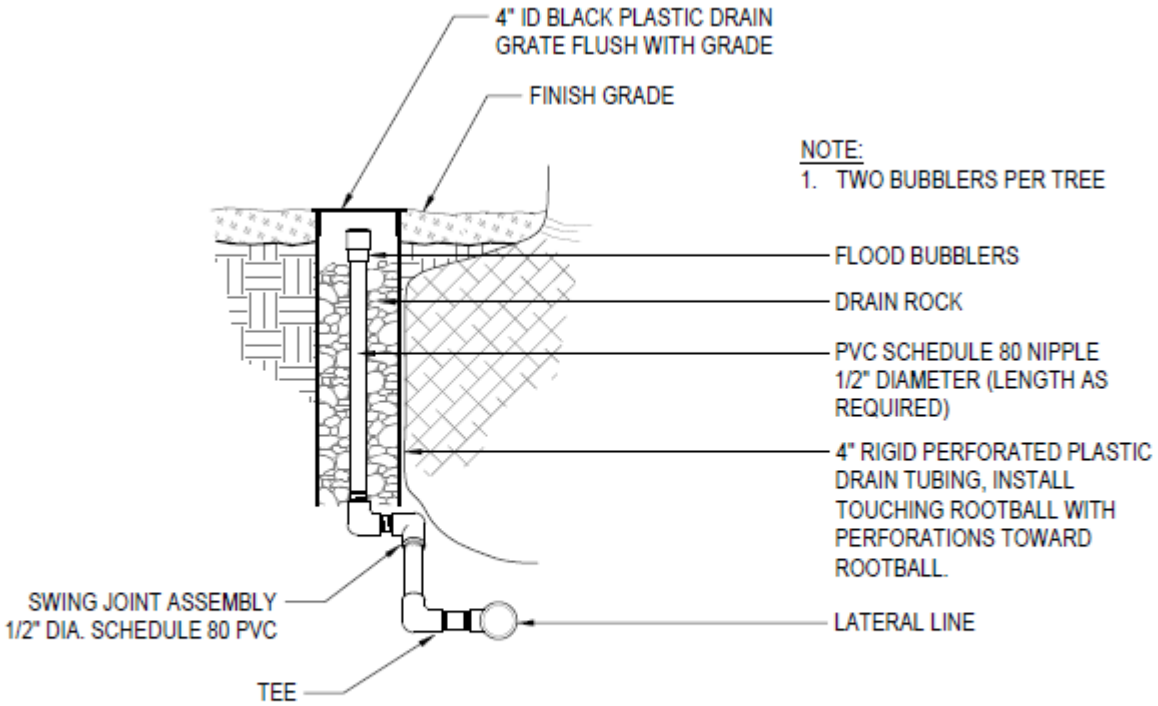
Utility locating will be performed by the contractor and must include coordination with standard notification services as well as private utility detection using ground-penetrating radar to identify potential conflicts. The NPS is not a resource for this information. A flow and pressure test will be conducted at the designated irrigation connection point to confirm adequate system capacity. All appropriate traffic control and pedestrian safety measures will be implemented.

The primary construction activity will involve the installation of a continuous irrigation mainline connecting all thirteen tree wells using pneumatic boring techniques. Boring operations will be performed entirely from within the existing tree wells, eliminating the need for surface excavation or sidewalk demolition. At each location, a small excavation will be completed within the tree well to a depth of approximately 12 to 24 inches below grade, or deeper if required to avoid existing utilities.

It is assumed that the lawn area near the excavation will be disturbed, and the contractor is required to restore the lawn to its original condition.

The technique used to complete this work (pneumatic boring or similar) will be used to create a subsurface pathway to the adjacent tree well, compacting soil to form a stable tunnel. Once the bore is complete, 1-1/2” high-density polyethylene (HDPE) pipe (or better) will be pulled through the pathway to establish the irrigation mainline.

At each tree well, infrastructure will be installed to support irrigation at each tree location. This will include a mainline tap, lateral connection, vertical riser, and a buried ball valve located approximately twelve inches below grade to allow for individual control at each location. Each riser will terminate with irrigation equipment as indicated in the following detail.



6 ROOT WATER SYSTEM

The irrigation system will be connected to an existing water source at the identified valve location. This connection will include installation of all required components to ensure code compliance and proper system function.

Following installation, the system will be pressure tested to confirm integrity and absence of leaks. The system will be flushed to remove any debris, and all valves and connections will be tested for proper operation.

Upon completion of construction activities, the site will be cleaned of all construction materials and debris. Work will be performed in a manner that maintains public access and minimizes disruption to visitors and surrounding resources.

This project will result in a fully installed, tested, and operational irrigation system for the newly installed trees within Aquatic Park.

E. Protections/ Preservation:

Contractor will set up protections to any adjacent object, structure and/or landscape to protect from damage. For extra heavy branches, rigging must be employed to lower branches so as not to damage property. If needed, turf matting or plywood will be provided and used by tree contractor to protect lawn areas from any potential damage from work.

F. Contractor Employee and Public Safety:

The National Park Service reserves the rights to stop any and all work done by the Contractor, subcontractor and Contractor's employees for any reason. Work area is greatly impacted by pedestrian, bicycle and vehicle traffic. The contractor will be responsible for pedestrian, bicycle and vehicle traffic control/safety for the duration of the project to ensure public safety. Both contractor and employees are required to work safely and to use proper personal protective equipment.

G. Quality Assurance

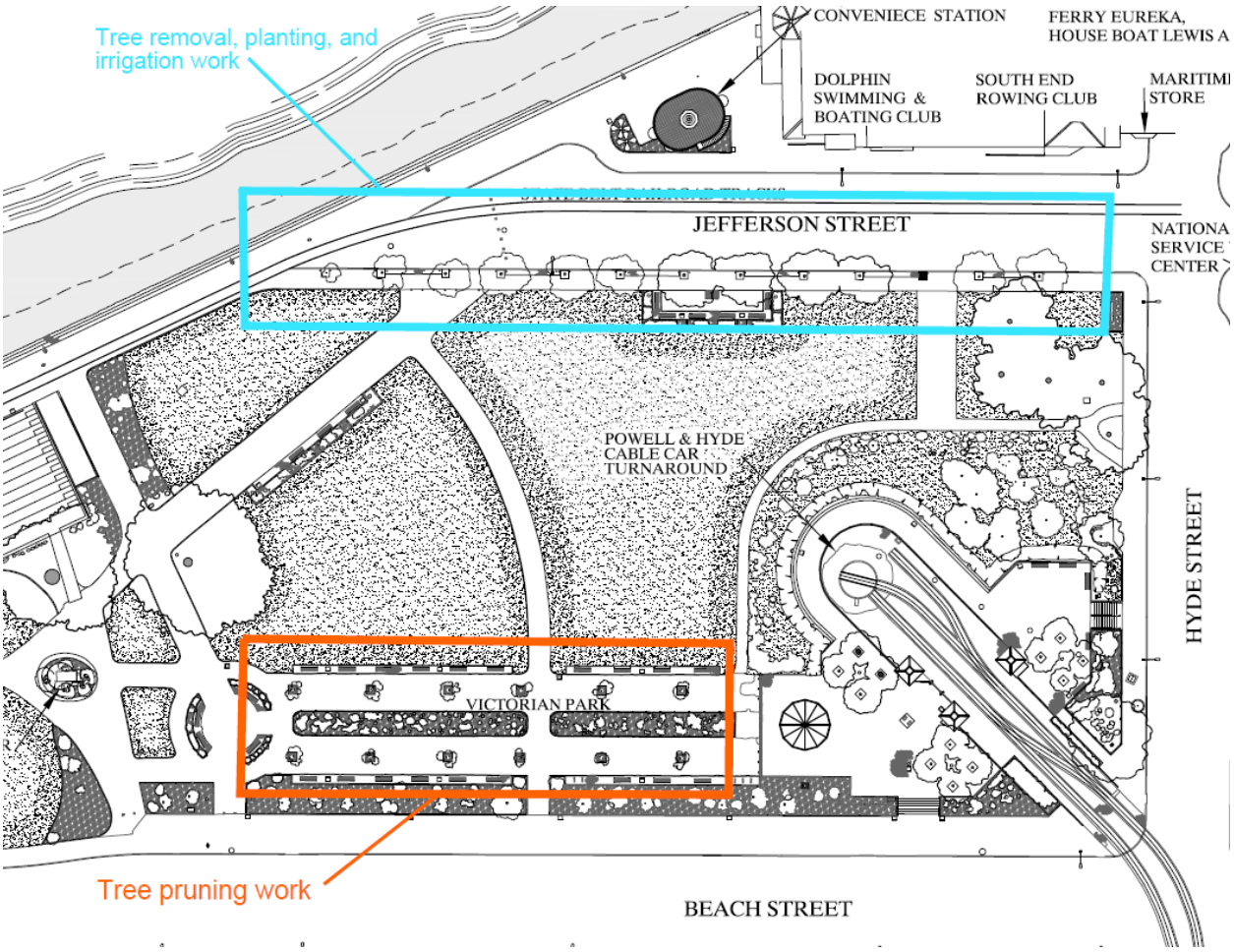
The Government will monitor the Contractor's performance by performing scheduled and unscheduled surveillance. The Government will also monitor and investigate customer complaints for the purpose of ensuring whether or not the Contractor is providing quality service. The Contracting Officer or his/her designated representative may schedule progress meetings as required.

Overview of Removal Methods: Contractor shall use standard commercial practices/methods and adhere to all Federal, OSHA, and State guidelines. Contractor shall submit a work plan with their proposal which outlines the methods proposed to perform this contract. Plan shall address at a minimum; tree pruning methods.

Evaluation of Removal Methods: NPS will monitor the contractor's performance to ensure compliance with the solicitation, Statement of Work, contract and any accepted proposal/method utilized.

PART 3: INSPECTION / ACCEPTANCE/CLOSEOUT

A. Remove all tools, equipment, surplus, materials, and rubbish and materials generated from the worksite.

B. Surfaces that are damaged due to performed work shall be restored to condition existing prior to work (or better).

C. Schedule the final inspection with park COR, Micah Wright.
Micah Wright: (415) 859-0898.