

Mowing, Trimming and Vegetation Control at
Lake Shelbyville, Shelbyville, Illinois

1. GENERAL

1.1. Scope. The work consists of furnishing all equipment, material, supplies, and labor required to satisfactorily perform mowing, trimming and vegetative control services. Work will be performed in recreational, administration, outlying areas and/or other areas set forth in the attached specifications and appendixes as specified herein and as directed by the Contracting Officer. The term vegetative control includes mowing and trimming in rip rapped areas, along guard rails, fences, sidewalks, delineated/hardened campsites, playgrounds, shrub beds, beaches, parking lot areas, roadways and in other like areas in accordance with paragraph 4.4 (vegetation control).

1.2. Contracting Officer. The term "Contracting Officer" (CO) means the person executing this contract on behalf of the Government, and any other officer or civilian employee who is properly designated Contracting Officer. The term includes, except as otherwise provided in this contract, the authorized representative of a Contracting Officer (COR) acting within the limits of his authority.

1.3. Safety.

1.3.1. General. All work shall be performed in accordance with safety requirements set forth in Corps of Engineers Manual, EM 385-1-1, 3 September 1996, entitled "Safety and Health Requirements Manual", copies of which are available at the Lake Shelbyville Management Office. All equipment and materials will be inspected by the Government. The CO will notify the contractor of any noncompliance with these provisions. The contractor shall, after receipt of such notice, immediately take corrective action. Such notice, when delivered to the contractor, shall be deemed sufficient for the purpose. If the contractor fails or refuses to comply promptly, the CO may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No part of the time lost due to any such stop orders shall be made the subject of claim for extension of time or for excess costs or damages by the contractor. Compliance with the provisions of this clause by subcontractors will be the responsibility of the contractor.

1.3.2. Specific. Following are accident prevention requirements specifically applicable to this work. However, they should not be construed to be all-inclusive. The Safety and Health Requirements Manual, referenced in Paragraph 1.3.1 is mandatory and pertinent provisions will be applied to all work under the jurisdiction of the Corps of Engineers. Paragraph references are to EM 385-1-1.

- a. Provide rollover protective structure (ROPS) to comply with paragraph 16.B.12.

- b. Provide and use seat belts (tractors equipped with ROPS), paragraph 16.B.08.
- c. Use high visibility work vests when working on or near roads, paragraph 05.A.11.
- d. Carry and store gasoline only in approved safety containers, paragraph 09.B.
- e. Use and maintain guards on equipment, paragraph 16.B.03 and 16.B.07.
- f. Use safety shoes when using mower, paragraph 05.A.08.
- g. Use "Slow Moving Vehicle" signs on tractors, paragraph 08.A.04
- h. Use eye and/or face protection devices, Section 05.B.
- i. Use ear protection while operating weed eaters, Section 05.C.
- j. Report all accidents resulting in lost time and/or property damage incidents resulting in \$250.00 or more to the Contracting Officer, within two (2) working days. Loss of life, incidents with public persons or and accident regardless of consequences if it is suspected that it will result in unfavorable criticism of the Corps of Engineers is to be immediately reported to the Contracting Officer, Section 01.D.
- k. No alcohol or drugs permitted during working hours, paragraph 01.C.02.
- l. Provide suitable size, immediately accessible, fire extinguishers on equipment and vehicles, Section 09.E.
- m. Provide a 16-unit first aid kit approved by a licensed physician at each job site when employees are present and working. Section 03.A.03 First aid and medical facility requirements.

1.4. Work Schedule.

1.4.1. Written Schedule Requirement. The contractor is required to perform complete mowing/trimming assignments in accordance with Section B. The CO shall notify the contractor a minimum of 48 hours prior to commencing a mowing assignments except when the mowing dates are listed herein. Work shall not begin before the assigned starting date and shall be completed no later than the assigned completion date. The order of mowing can be changed by mutual consent. The CO will grant fair and reasonable time extension in the event of inclement weather or unsuitable ground conditions. Under such conditions the contractor can request an inspection of ground conditions by the CO to determine if conditions become too severe or impractical to

continue the assignment.

1.5. Contract Area. Areas to receive mowing, trimming, and vegetative control services are specified in Section B, Section C, and/or Appendix B.

1.6. Vehicle Use. The contractor shall not drive off the paved or gravel access roads onto the grass at anytime without prior approval of the CO. All damage from off road vehicle use shall be repaired to original conditions at the contractor's expense.

1.7. Caution.

1.7.1. Work Area. The work areas are located in heavily used recreation areas. The work areas are timbered or landscaped with valuable plants including seedling trees and have other obstructions such as fire grills and picnic tables, all of which will require careful trimming. All bidders are strongly encouraged to attend the scheduled site visit and inspection. WARNING: It is the intent of the Government to plant between 50 and 150 trees each year for the next five years. Other items such as posts, rocks, and similar items may be added at the rate of about 25 to 50 items per year. It is the contractor's responsibility to account for this in his bid and no additional payments will be allowed for this work.

1.7.2. Damage to Government Property. It is the contractor's responsibility in the course of performing the contractual work to guard against destruction, injury, defacement, removal or any alteration of public property including, but not limited to developed facilities and vegetative growth. In the event public property is damaged it is the contractor's responsibility to notify the CO of damage within 24 hours. Upon approval of the CO, replacement or repair shall be made within 10 calendar days of the incident. If trees or shrubs are to be replaced the Government will assign a planting date during the next spring or fall planting season. Information General. Information is given to the bidder to better explain the Government's intent for accomplishing this scope of work.

1.8. Information. Information is given to the bidder as follows to better explain the Government's intent for accomplishing this scope of work.

1.8.1. Wet Conditions. The contractor should expect wet conditions during the contract period, especially during the spring season when the grass tends to grow faster. The contractor is responsible for providing adequate personnel and equipment to meet work schedules as stated.

1.8.2. Intensively Maintained Turf Areas. Approximately 43 acres of type A mowed turf is managed for higher foot traffic. Management practices consist of fertilizing, aeration, and weed control. All of these practices are performed by others. However the grass will grow faster and thicker in these areas.

1.8.3. Time Periods. Mowing assignments that are listed as a period of time (ex. Paragraph 4.2.3 Type B Mowing, lists the mowing period to be August 1-30) are to be met. A period of time is given to allow the contractor time to organize work to better fit any other mowing schedule or otherwise to be efficient. If the contractor procrastinates and then encounters rain or equipment problems the work will still be deficient if the due date is missed.

1.8.4. Tree Limbs. Numerous trees are located in mowed areas and many of them have low limbs that can interfere with tractor mowing. The contractor will be responsible for damage to any part of a tree and must still meet any trimming requirements.

1.8.5. Trimming and Vegetative Control. There are a lot of items to trim around a lot of vegetation growing in cracks, corners, and landscape plantings that will have to be removed according to the specifications. Contractors must understand that this will take effort and the Government will be vigilant in the inspections of this work item.

1.8.6. Speeding. The speed of the vehicles and mowing equipment will be monitored and any violations will be brought to the contractors attention. Citations can be issued by the park rangers for failure to observe posted speed limits and careless and negligent use of vehicles or equipment. Also actions can be taken under the safety requirements of this contract. Complaints from our customers will usually be considered to be valid and actions can be taken.

1.8.7. Customer Service. This work will be performed on public lands and it will be witnessed by the public. Since the public is our customer the contractor will be expected to treat the public with respect. This includes mowing and trimming so that debris is deflected away from people and equipment to avoid accidents. It also means working with people to have a minimum impact on their plans to use the facilities (An example of this would be delaying the mowing of a campsite to avoid spreading dust while campers eating a meal). It should be noted that the schedules and assignments must still be accomplished while meeting the needs of our customers.

2. Equipment

2.1. General. Equipment used to accomplish mowing/trimming assignments shall be suitable to perform the work as described herein. Mowers and trimmers shall be equipped with manufacturer's recommended safety protective devices to ensure worker and public safety at all times. Equipment shall be inspected daily by the contractor and maintained in good working condition. The CO reserves the right to reject any equipment not designed properly for its intended use or not maintained properly.

2.1.1 Type A Mower. Mowers shall be of a type that is designed to mow large areas of turf in a heavily used recreation area. Brush, bar type, or rear-mounted mowers are not

acceptable. Mowers shall be equipped with slides, wheels, rollers, or other approved devices to eliminate scalping. Mowers must have effective deflection devices to allow discharged materials to be directed away from people and facilities. It is understood that deflection devices may make it more difficult to mow. It is the contractor's responsibility to cope with this problem and continue to meet all contract specifications. Deflectors shall be used or work will be stopped. Discharge openings must be designed to eliminate objects being thrown out from under the mowing deck. Type A mowers shall be used for all bid items specified on the bidding schedule as Type A.

2.1.2. Low Profile Mower. All mowing provided under Item 0004 to mow the Main Dam shall be performed by a low profile mower designed for use on slopes of approximately 1 on 4 or steeper. The mower shall be equipped with tires specifically designed to prevent damage and rutting when used on steep slopes. Only equipment approved by the CO for mowing on the Main Dam is allowed for this type use.

2.1.3. Type B Mower. Mowers shall be of suitable size to mow all vegetative growth including brush, sprouts, and trees up to one and one-half (1-1/2) inch caliper. Type B Mowers shall be used for all bid items specified on the bidding schedule as Type B.

2.1.4. Lawn Maintenance. Mowers shall be either hand operated or lawn tractor type and must be equipped with clipping catchers or an effective mulching blade. Sweepers and other after cutting clipping removal devices are not permitted. After each mowing all clippings shall be placed at a location approved by the CO. Mowers shall be equipped with slides, wheels, rollers, or other approved devices to eliminate scalping. Lawn Maintenance mowers shall be used for all bid items specified on the bidding schedule as Lawn Maintenance.

2.2. Tractors. The tractors shall be of suitable size and type for the intended level at work. No three-wheeled units will be allowed. Surreys, standing wheels, and other riding devices that are pulled by self-propelled mowers are acceptable.

2.3. Trimmers and Vegetation Control. Equipment or methods used for trimming or vegetative control work shall not harm, deface, destroy, remove, or alter trees, landscape plantings, or developed facilities. All trimming and vegetative control equipment or methods must be submitted in a written work plan and approved by the CO before any work begins.

2.4. Chemicals. If the contractor chooses to use chemicals for Vegetation Control (paragraph 4.4.), he must prepare a work plan for chemical use and submit it to the CO for approval before any chemicals are used. This work plan must include the chemical to be used with applicable MSDS information, how all state and federal laws will be met, the location for application, the dates for the application, and any other necessary information.

2.5. Vehicles. All vehicles used in performance of this

contract (including Type A riding mowers) shall be kept clean. Vehicles shall be clearly marked with an all weather identification sign showing in 1-1/2" or larger letters, the Contractor's name, type of business, and address. See Appendix C.

2.6. Equipment List. The form provided in Appendix A to this solicitation shall be completed and submitted with your bid. The CO reserves the right to inspect any and all equipment, materials, and supplies prior to award of this contract and during the course of the contract. The contractor must submit in writing to the CO for approval any new equipment, materials, and supplies to be used in this contract before it can be used to perform any work.

2.7. Fire Protection

2.7.1. Vehicle and Mowers. All vehicles and riding mowers must have a fire extinguisher with a minimum rating of 2-A:B:C.

2.7.2. Fuel Storage Vehicle. Any vehicle which stores five gallons or more of fuel must have a fire extinguisher with a minimum rating of 20-B:C.

2.7.3. Location. All fire extinguishers must be mounted so that they are easily visible and detach easily from their mount for use.

3. Government Furnished Materials.

3.1. Keys. See Section E, Paragraph E.2

4. Mowing, Trimming and Vegetation Control

4.1. General. Mowing assignments shall be completed within six (6) working days from the assigned starting date or according to dates specified. All work in one area shall be completed and an inspection requested before moving to another area. With permission of the CO the contractor may work in different recreation areas with separate and different work crews. However, all work must still be completed and an inspection requested before each crew moves to another area. Inspections will be made only between the hours of 8 a.m. and 3 p.m. No work will be permitted on Saturdays, Sundays, or holidays unless this restriction is specifically waived by the CO. Work will not be permitted between the hours of 5 p.m. and 9 a.m. in campgrounds (all areas controlled by fee booths or designated as a group camp). Work is permitted in other areas from 7 a.m. to 8 p.m. Inhabited picnic sites and campsites shall be trimmed or mowed using extreme care, and with the discharge directed away from inhabitants, facilities and equipment. Breakdown of equipment does not relieve the contractor of completing the work required on schedule.

4.2 Mowing. Mowing will not be permitted when ground conditions are such that mowing operations will cause wheel

rutting. Type A and Lawn Maintenance mowing must result in a cut that is even across the top and does not leave ragged ends in the mowed vegetation.

4.2.1. Type A Mowing. This type of mowing is routinely required for the mowing, trimming and vegetation control of recreational areas. After mowing, the height of the vegetation shall not exceed three (3) inches or be less than two (2) inches. Areas adjacent to any roads, parking lots or sidewalk not specifically marked or included in the mowing maps attached but within the recreation areas to be mowed, shall be mowed for a distance of 10 feet from their outer edge. The limits of mowing at intersections shall be determined by the CO to provide a safe viewing distance for vehicles approaching intersections. Mowing limits for signs located within the recreation areas but farther than ten (10) feet from the edge of the roadway shall be determined by the CO to allow for effective viewing. All grass clippings shall be removed from all exterior walkways, fountain and hydrant pads, steps, picnic table pads and floors of picnic shelters before the end of each work day or when an area is completed; whichever comes first. Mow or trim approximately thirty (30) feet around each campsite and picnic site. When the numbers of trees are too dense or the ground is too steep to permit this distance the mowing and/or trim line shall be at least ten (10) feet away from the campsites and picnic sites. In addition, all vegetation growing within the living area and parking spur of each campsite shall be cut to a height of at least 1/2 inch or less. NOTE 1: When areas of vegetation are newly seeded or too wet to mow with tractors, the contractor must cut the vegetation to the required height by other means, when the vegetation exceeds twelve (12) inches in height. NOTE 2: Intentionally mowed and shredded litter shall be the contractor's responsibility to remove. Most litter is removed by 8 a.m. by others. Litter should be expected and does not relieve the contractor of his job.

Payment for all Type A Mowing, trimming, and Vegetation Control will be made as a lump sum for each Type A mowing assignment.

4.2.2. Partial Type A Mowing. This type of mowing may be required during times of uneven turf growth in the Recreation areas (normally spring or fall). Mowing assignments will be given to the contractor describing the location and acreage of turf that needs to be mowed. Note: mowing of these partial areas shall comply with paragraph 4.2.1. Type A Mowing

4.2.3. Type B Mowing. This type of mowing is required for the annual mowing/trimming of areas. After mowing, the vegetation shall not exceed the height of six (6) inches or be less than four (4) inches. Areas adjacent to all roads and parking lots shall be mowed for a distance of ten (10) feet beyond the limits of the Type A mowing. The limits of the Type B mowing are not shown on the attached maps. Type B mowing shall be performed annually during the period August 1-30 unless otherwise noted.

4.2.3.1 Extra Type B Schedule to be as follows:

Dam East: One mowing each between:

May 15 - June 1

June 5 - June 20
June 20 - July 1
August 1 - August 15

Dam West: One Mowing each between:

May 1 - May 15
June 1 - June 15
June 25 - July 1
July 15 - August 1

Camp Camfield: One mowing each between:

April 15 - May 1
May 15 - June 1
July 1 - July 15
August 15 - September 1
Sept. 25 - October 1

Lithia Chautauqua: One mowing each between:

April 15 - May 1
May 15 - June 1
July 1 - July 15
August 15 - September 1
Sept. 15 - October 1

4.2.4. Lawn Maintenance

4.2.4.1. Location:

4.2.4.1.1. Administration Building. Lawn Maintenance shall be performed on the north side of the building between the Administration Building and the road (approximately 55 feet) and running east and west from a point approximately 100 feet west of the front sidewalk to 150 feet east of the front sidewalk (Note: The western end of this section will angle outward towards the road as directed by the CO). Lawn maintenance shall also be performed on the west side of the building running the length of the building's west wall to a point approximately 90 feet west of the building.

This also includes the fenced area and all vegetation inside the fence and at least six (6) feet outside the fence.

4.2.4.1.2. Visitor Center. Lawn maintenance shall be performed on the area encompassed by the following: A line from the southwest corner of the parking lot extending west and a line extending north from the northeast corner of the parking lot. Also a three (3) feet wide area on the lake side of the hedge is to be mowed.

4.2.3.1.3. Height of Grass. All lawn maintenance shall result in grass that is mowed to a height of two (2) inches.

4.2.4.1.4. Time Limit. All lawn maintenance assignments must be completed within two (2) days of the scheduled starting date of the assignment.

4.2.5. Hunter/Fisherman Lots (See Appendix B-20). This mowing/trimming is a special case of Type B mowing and all requirements for Type B mowing is in effect except as follows:

- a. After mowing, the maximum height of the remaining vegetation shall be two (2) inches. Rough ground conditions shall not relieve the contractor from meeting this requirement.
- b. Mowing shall be performed for a distance of six (6) feet outside the perimeter posts or beyond the edge of the gravel if posts do not exist and along the driveway connecting the roadway to parking lot. If woody vegetation prohibits mowing a full six (6) feet, the mowing shall occur as far as possible.
- c. Trimming shall be performed by scalping all vegetation between and interior of the perimeter posts or to the edge of the gravel, if posts do not exist. This type trimming must also occur throughout the parking area and for a distance of one (1) foot outside of the boundary of the perimeter posts or gravel.
- d. These areas will be mowed and trimmed twice per year: first during the period May 13-23 and the second during the period August 1-15.

4.2.6. Meter Boxes. A path at least five (5) feet in width and a maximum height of 4" shall be cut from the nearest paved road to the water meter boxes. All vegetation shall also be cut for a distance of six (6) feet around the meter boxes and to a maximum height of four (4) inches. These water meter boxes are located near the entrance of the following recreation areas: Bo Wood, Lithia Springs, Whitley Creek, Wilborn Creek, Lone Point, Opossum Creek, Sullivan Beach and Coon Creek.

4.2.7. Signs. Type A mowing/trimming is required in those locations designated in Appendix B-21 thru B-28.

4.2.8. Extra Type-A Mowing. This extra Type-A mowing shall consist of mowing/trimming of the Lithia Springs and Opossum Creek Land Treatment Areas (See Appendix B-18 and B-19) and all requirements for Type-A Mowing are in effect except as follows.

- a. After mowing, the vegetation shall not exceed the height of five (5) inches or be less than three (3) inches.
- b. Mowing shall be performed along the entrance road, embankment of the wastewater holding pond, wastewater holding pond area, spray field, and a six (6) foot wide path around the outside perimeter of the spray field fence.
- c. Trimming shall be done around all buildings, sprayer heads, manholes, instrumentation meters, waste water holding pond, and spray field fence.

4.2.9. Waterlines. Mowing along waterlines shall be a Type-B mowing. Mowing shall consist of a path ten (10) feet wide along waterlines in tall grassy areas in Opossum Creek, Coon Creek, Lone Point, and Wilborn Creek Recreation Areas (approximately 12,000 linear feet). These waterlines will be mowed and trimmed twice per year: first during the period May 1-23 and second during the period August 1-31.

4.3. Trimming. Trimming is a part of each Type A mowing and is required ten (10) feet around campsites (both within and without impact areas), water fountains, hydrants, grills, trash receptacles, picnic tables, picnic shelter, buildings, signs, guardrail posts, boulders, fences, sidewalks, paths, trees, shrubs, shrub beds, parking blocks, parking lots, curbing, water meter boxes, rip-rapped or paved ditch lines along the edge of rip-rapped areas and similar items. Trimming must be complete around the each and every tree or facility identified in this section. Trimming will not be complete until all vegetation and soil or sand resulting from this work has been removed from above the edges of all walkways, pads, floors and foundations, parking lots planter beds, and wooded borders. NOTE: This type trimming may be called edging by some people. Trimming is a requirement of all mowing including Type A, Type B, and Lawn Maintenance Mowing. NOTE: Costs for trimming shall be included in mowing items, because no separate payment for trimming will be made. Trimming shall be subject to approval of the CO. Under no circumstance shall trees or shrubs be damaged by trimming equipment. Small trees can be easily girdled and killed using string trimmers("weed eaters"). All trees and shrubs severely damaged or killed as a result of contractor's trimming or mowing activities shall be replaced at contractor's expense. Replacement trees shall meet the following specifications: All trees will have a caliper of 1 to 2 inches taken from a height of six (6) inches above ground level. All trees will be grown at a nursery using standard methods to produce a transplantable tree with a good chance of survival. Each tree must also be tagged at the nursery with the following information: a) date tree was dug, b) age of tree, and c) name and location of nursery. The nursery must be located in the planting zone for Lake Shelbyville, Illinois. All trees will be free of branches to a point about 50% of their height, and shall have well formed branching above that height. All trees will be balled and burlapped. A minimum ball size for tree 1- to 2-inch caliper will be 22 inches in diameter. All trees will be guaranteed for one (1) year after planting. Replacement shrubs shall be a quality and type satisfactory to the CO. They must be planted by the contractor during a time period and in a location, within fifty (50) feet of the damaged tree. The CO will determine if a tree or shrub is "severely damaged". Any tree less than six (6) inch caliper shall be considered severely damaged if the bark has been rubbed or knocked away from the woody portion on the trunk of the tree. Severely damaged trees over two (2) inch caliper may or may not be required to be removed; however, this will not relieve the contractor from the requirement to plant a replacement tree nearby.

4.4. Vegetation Control. Vegetation control is a part of Type A Mowing. Control of vegetation results in an area that is free of standing vegetation. Chemical control may be used in accordance with paragraph 2.4. Cutting and/or chemical control of vegetation is only acceptable for 4.4.1. Pavement Vegetation Control, 4.4.3. Revetment Vegetation Control, and 4.4.4. Boat Ramp Vegetation Control. All other forms of vegetation control shall be performed by pulling or prying so that a major part of the root system is removed. All vegetation control will be a part of each Type A mowing assignment.

4.4.1. Pavement Vegetation Control. All living and dead vegetation shall be controlled in the cracks and crevasses of roadways, parking lots, curbing, sidewalks and all other types of paved and/or gravel surfaces within a recreation area. Vegetation control shall be accomplished by mowing, trimming or by other means to remove this

vegetation to the level of the surrounding surface.

4.4.2. Beach Vegetation Control. All living vegetation shall be removed within the sand limits of the beaches in Dam West, Sullivan Beach, Wilborn Creek, Coon Creek, and Lithia Springs recreation Areas. The sand limits shall be defined as that area inside the walkway at the high end of the beach and a distance of approximately twenty (20) feet outside the swimming buoys on each side of the beach. Vegetation control at the beaches will result in a sandy area that is free of living and dead vegetative material. Removal of material that drifts from the water onto the beach is not the responsibility of the contractor. No chemicals will be allowed to control vegetation on the beaches.

4.4.3. Revetment Vegetation Control. Living vegetation except crown vetch shall be controlled in the following areas:

- a. All rock areas in the Spillway area below the main dam to the Rt. 16 Bridge.
- b. All concrete and rock roads, parking areas and ditches on the downstream side of the main dam. This also includes rock and concrete ditches along or near all roadways downstream of the main dam.
- c. Under guard rails and conduit on the upstream side of the main dam and adjacent to it.
- d. All living or dead vegetation must be removed to a level even with or below the rip-rap.

4.4.4. Boat Ramp Vegetation Control. All vegetation including trees shall be controlled for a distance of twenty (20) feet on either side of the launch ramp and for a distance of ten (10) feet away from the curbing on the ramp turn-a-rounds. Note: At some launching areas the Government has established a covering of Crown Vetch. This plant is not to be killed and is only to be trimmed or mowed to keep it from encroaching onto roadways, parking areas, walkways, etc. However, any vegetation growing in the Crown Vetch within the vegetation control limits must be controlled. All living or dead vegetation must be cut, pulled or pried and removed to a level even with or below the rip-rap.

4.4.5. Playgrounds, Amphitheaters, and Landscape Vegetation Control. All vegetation, except for intentionally planted shrubs or trees, shall be removed from any bark or woody material that has been placed by the Government as impact material under and around playground equipment, amphitheaters and landscape plantings. This will result in the bark or woody impact material being free of all living vegetation.

5. PERSONNEL REQUIREMENTS. Supervision. A minimum of one (1) supervisor with decision-making authority for this contract shall be on duty during all working hours when workers are on the job site. Workers will remain fully clothed during the performance of this contract.

6. STANDARDS FOR WORK PRODUCTS. Mowing requirements specified in the description of work shall comply with the following standards.

6.1. Mowing Heights. The allowable tolerance from specified heights shall be +/- one-half inch in Type-A and Lawn Maintenance areas. Type B

shall be +/- one inch. Conformance to tolerances shall be determined by measuring the height of cut grass on level ground.

6.2. Quality of Mowing. Mowing in Type-A, Type-B and Lawn Maintenance areas shall be a smooth cut of uniform height. Uncut vegetation resulting from the lack of mowing overlap or from wheel rollover shall not be tolerated in these areas. Defects due to wheel rollover are difficult to detect immediately after mowing, therefore any defects discovered within 24 hours after inspection must be corrected by the contractor during the next week day at no additional cost.

6.3. Equipment Operation. Tractors shall be operated in a manner that will prevent:

- a. Wheel damage to the turf during turns.
- b. Damage to trees and shrubbery.
- c. Scalping.

6.4. Tractor Speed. Maximum speed adjacent to campsites, picnic sites, playgrounds, buildings and other structures shall be 4 mph. The ground speed chart found in owners manual shall be referenced to determine the proper gear speed to use to maintain the maximum speed.

7. REMOVAL OF PLANT AND RUBBISH. Upon completion of mowing in each area, the contractor shall remove from the site of work, all equipment, unused materials and any waste materials and rubbish resulting from the operation performed hereunder.

8. ENVIRONMENTAL PROTECTION.

8.1. Scope. This paragraph prescribes actions required for the prevention of environmental pollution during and as the result of operation under this contract. For the purpose of this specification, environmental pollution is defined as the presence of chemicals, physical or biological elements or agents which adversely affect human health or welfare; unfavorably alter ecological balances of importance to human life; affect other species of importance to man; or degrade the utility of the environment for aesthetic and recreational purposes. The control of environmental pollution requires consideration of air, water, and land and involves noise, solid waste management and management of radiant energy, and radioactive materials, as well as other pollutants.

8.2 Protection of Land Resources. The work areas on which the work is to be performed under this contract, and the land resources adjacent thereto, shall be preserved in their present condition.

8.3. Protection of Water Resources.

8.3.1. Contamination of Water. Lakes, ditches, rivers, canals, waterways, of reservoirs shall not be polluted with fuels, oil, bitumen's, calcium chloride, insecticides, herbicides, or other similar materials harmful to fish, shell fish, wildlife, or materials which may be detrimental to outdoor recreation.

8.3.2. Disposal of Materials. The methods and locations of disposal of materials, wastes, effluents, trash, garbage, oil, grease, chemicals and other like materials shall be approved by the CO.

8.3.3. Permits and Responsibilities. The contractor shall, without additional expense to the Government, be responsible for obtaining any necessary licenses and permits, and for complying with any applicable Federal, State, and Municipal laws, codes, and regulations, in connection with the execution of the work. The contractor shall be similarly responsible for all damages to persons or property that occur as a result of his fault or negligence; shall take proper safety and health precautions to protect the work, the public, and all the property of others; shall also be responsible for all materials delivered and work performed until completion and acceptance of the contract.