

PUTNAM COUNTY ENGINEER

Michael L. Lenhart P.E., P.S.
245 E. Main St., Suite 205
Ottawa, OH 45875
Ph: (419) 523-6931
Fax: (419) 523-6014



Highway Garage
304 E. Second St.
Ottawa, OH 45875
Ph: (419) 523-6832
Fax: (419) 523-6313

Website: <http://www.putnamcountyohio.gov/ElectedOfficials/Engineer.aspx>

Email: michael.lenhart@putnamcountyohio.gov

Ditch Maintenance General Specifications

Scope: The contractor shall furnish all of the necessary materials, labor, equipment, and insurance to apply a herbicide solution to control unwanted brush and broadleaf vegetation existing on ditches as indicated on the attached list of locations.

Area to be Treated: The contractor shall be responsible for spraying all designated ditch banks and any additional easement associated with these ditches

Method of Treatment: All of the listed ditches shall be treated with the herbicide solution as a broadcast application covering the designated side(s) of the ditch. Coverage of all existing brush and broadleaf weeds shall be adequate to provide adequate kill of vegetation prior to final approval by the Putnam County Engineer or his representative.

Time of Application: For broadleaf vegetation application of the herbicide is to be made between the period of full leaf expansion to September 1. Time of application for cattails will be after plumes develop until September 15. All work performed on this contract shall be during normal daylight hours.

Materials and Rate of Application: Application and mixture rates of the approved herbicide for broadleaf weeds and brush shall require approximately 2.0 quarts of Galon 3A concentrate or equivalent/equal herbicide, 2.0 quarts of 2,4-D amine, 1.0 quart of surfactant, and 12.0 ounces of drift control for every 100 gallons of mixture. Rate of application shall vary with the density of brush to be treated, although while maintaining a consistent broadcast spray over the ditch bank and berm target area. For cattails spray 2.0 quart Roundup Custom or equivalent/equal herbicide, 1.0 quart of surfactant, and 12.0 ounces of drift control for every 100 gallons of mixture.

***The chemicals used need to be preapproved by the engineers office before submitting an official quote*.**

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Equipment: The contractor shall furnish, operate, and properly maintain suitable and adequate equipment necessary for the performance of this contract. The spray vehicle(s) shall be equipped to apply a broadcast treatment, and include a handgun and hose reel system for use when necessary. All spray equipment shall have controlled and flexible pressure regulation capacity capable of adjusting to each technique of application in order to insure adequate coverage of target vegetation and minimize the risk of over spray and off-side drift. In addition, the contractor shall have the right to utilize a backpack sprayer application and techniques, if necessary, to indicated work.

Experience and License Requirements: The contractor must be qualified by the State of Ohio for work of this nature. The bidder must also furnish a copy of his Ohio Custom Applicator's License, upon demand, issued by the Ohio Department of Agriculture.

Liability and Insurance: The contractor shall at all times exercise extreme care to prevent damage to residential plantings, vegetable and flower gardens, desirable trees, and any susceptible farm crops adjacent to the open ditch. If a problem arises, the contractor shall repair or pay for the repair of any damage to the indemnified parties' property caused by the contractor or its employees, invitees or agents. The contractor shall have the right to shut off spray at any time that he feels the application may cause damage. The contractor also shall be able to furnish satisfactory evidence of automobile and general liability insurance coverage in an amount of no less than 300 Thousand Dollars (\$300,000.00) to insure adequate payment for any damages by the spraying operations or because of accidents occurring with the equipment and/or operators.