



# Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

July 24, 2023

SUBJECT FAI Route 57 (I-57)  
Project NHPP-RBV9(665)  
Section 2021-003-RS  
Cook County  
Contract No. 62N36  
Item No. 9, August 4, 2023 Letting  
Addendum A

## NOTICE TO PROSPECTIVE BIDDERS:

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

1. Revised the Schedule of Prices
2. Revised page ii of the Table of Contents to the Special Provisions
3. Added page iii to the Table of Contents to the Special Provisions
4. Added pages 129-152 of the Special Provisions
5. Revised sheets 2, 5, 54-56, 58-62, 66 & 72-74 of the Plans

Prime contractors must utilize the enclosed material when preparing their bid and must include any changes to the Schedule of Prices in their bid.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Jack A. Elston'.

Jack A. Elston, P.E.  
Bureau Chief, Design and Environment

MTS

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## **CONTRACTOR'S ARBORIST**

An International Society of Arboriculture (ISA) Certified Arborist shall be on site during all tree pruning, limb removal, and tree removal by the acre. The services of this person shall be included in the contract. No additional compensation shall be allowed.

**The ISA Certified Arborist shall attend the preconstruction meeting and submit their current license to the Engineer.**

## **EQUIPMENT**

The Contractor shall comply with all OSHA, federal, state, local, and professional tree care industry regulations and safety standards.

The Contractor's personnel shall be required to wear high visibility vests (meeting the requirements of ANSI/ISEA 107-2004 or ANSI/ISEA 107-2010 for Conspicuity Class 2 garments. Other types of garments may be substituted for the vest as long as the garments have a manufacturer's tag identifying them as meeting the ANSI Class 2 requirements), hard hats, ear/eye protection, and all appropriate safety belts and/or harnesses when performing any function relative to this contract. Appropriate safety gear shall be worn at all times.

The Contractor shall have sufficient equipment, in good working condition, to perform work in an expedient manner. All equipment shall display proper safety markings, working lights, and shall have in place all safety guards, shields, and protective covers.

After the contract has been awarded, the Engineer reserves the right to inspect the Contractor's equipment. The Contractor must have in their possession or have available to them by formal agreement at the time the contract has been awarded:

- Handheld Equipment: Chainsaws, handsaws, hand pruners, pole pruners (powered or manual), brush cutter, hedge trimmers, tree loppers, hydraulic tools
- Vehicles: Chipper truck, aerial bucket truck with outrigger pads/mats and vehicle exhaust mats, log truck, mobile crane

Off Road Equipment: Brush chipper (minimum 12-inch capacity), whole tree chipper, stump grinders (tow behind and self-propelled), skid steer with cutting or mowing attachments and grapple, mini skid steer, loader, forestry mulcher, feller buncher, tree skidder, forestry mower

Added 7/24/2023

- Traffic Control Equipment: Category 4 Arrow board, cones, barricades, barrels, signs, flagging equipment, Category 3 crash cushions (impact attenuators), truck mounted attenuators
- Arborist Protection Equipment: All applicable Personal Protective Equipment (PPE), fall protection equipment, helmet, Class 2 safety vest, chain saw boots and/or steel toed boots

## **GENERAL REQUIREMENTS FOR WEED CONTROL SPRAYING**

### **Experience**

The Contractor shall have previous experience with the use of weed control chemicals. He/she shall have had at least three (3) season's experience in ecological restoration and the ability to identify and differentiate between targeted weeds and vegetation to remain. The Contractor shall observe and comply with all sections of the Illinois Custom Spray Law, including licensing. Contractor personnel applying herbicides shall have a valid pesticide applicator license issued by the Illinois Department of Agriculture.

**The licensed pesticide applicator shall attend the preconstruction meeting and submit their current license to the Engineer. The licensed pesticide applicator shall be qualified at a minimum in Right-of-Way and Aquatics. The licensed applicator shall work on-site.**

### **Equipment**

The equipment used shall consist of a vehicle-mounted tank, pump, spray bar and handgun, plus any other accessories needed to complete the specified work. Spraying shall be done through multiple low-pressure flooding or broad jet nozzles mounted on spray bars operated not more than 36" above the ground. If different sizes or types of nozzles are used to make up the spray pattern, the pressure, sizes and capacities shall be adjusted to provide a uniform rate of application for each segment of the spray pattern. Hand spray guns may be used for spraying areas around traffic control devices, lighting standard and similar inaccessible areas. Maximum speed of the spray vehicle during application of chemical shall be ten (10) miles per hour.

Pumps used shall have a volume and pressure capacity range sufficient to deliver the mixture at a pressure to provide the required coverage and to keep the spray pattern full and steady without pulsation or excessive pressure as to cause fogging. Maximum pressure for application shall be 15 PSI. Quick acting shut-off valves and spring-loaded ball check valves shall be provided to stop the spray pattern with a minimum of nozzle drip. In areas where the spray vehicle must traverse the right-of-way, a four-wheel drive vehicle with flotation tires will be required to minimize damage to the ground surface.

Added 7/24/2023

Additional equipment used shall consist of swiping gloves, wicks, wands, hand spray guns and/or backpack sprayers, plus any other accessories needed to complete the specified work as directed by the Engineer. Wick applicators, swiping gloves, or other such devices may be required to ensure herbicides are applied only to target species. If hand spray guns used are attached to spray vehicle, maximum speed of the spray vehicle during application of chemical shall be five (5) miles per hour. In areas where a vehicle is needed to traverse the right-of-way, a four-wheel drive vehicle with flotation tires will be required to minimize damage to the ground surface.

Prior to beginning work, the Contractor shall obtain approval from the Engineer of the spraying equipment proposed for completing this work. The proposed equipment shall be in an operational condition and available for inspection by the Engineer at least two (2) weeks prior to the proposed starting time. If requested by the Engineer, the Contractor shall demonstrate the calibration of the equipment.

The equipment must provide consistently uniform coverage and keep the spray mixture sufficiently agitated or the work will be suspended until the equipment is repaired or replaced.

### **Spraying Areas**

This work includes roadsides and other types of right-of-way of various widths and gradients. Spray areas often extend more than thirty (30) feet from the edge of the roadway, requiring both spray bar and hand gun applications.

When the description of work requires weed control of a stated species, such as teasel, the chemical shall be applied only to locations where the stated species is present. When the description of work requires general weed control within a bed or area, such as broadleaf weed control in turf, then the chemical shall be applied to the entire bed or area.

### **Exclusion of Spraying Areas**

Areas where weed control spraying is inappropriate or detrimental to the environment, desirable planting, or private property shall be excluded from the spray area.

Spraying will not be permitted over any drainage swales or waterways, or other areas where the chemical label prohibits application. Spraying within 150 feet of a natural area or site where endangered or threatened species occur.

### **Responsibility for Prevention of Damage to Private Property**

The Contractor shall, at all times, exercise extreme caution to prevent damage to residential plantings, flower or vegetable gardens, vegetable crops, farm crops, orchard or desirable plants adjacent to the roadside.

The Contractor or Department receives a complaint; the Contractor shall contact a complaint within ten (10) days after receiving a claim for damages, either in person or by letter. The Contractor, or his authorized representative, shall make a personal contact with the complainant within twenty (20) days. The Engineer shall also be notified by the Contractor of all claims for damage he received and shall keep the Engineer informed as to the progress in arriving at a settlement for such claims.

Added 7/24/2023

**Communication with the Engineer**

The Contractor is required to communicate with the Engineer to receive all required approvals in a timely way and to assure that the Engineer can accurately document the work performed.

**All herbicide application shall be directly supervised by the Engineer for quality assurance and for payment purposes. If the Contractor performs work without the Engineer's supervision, work will not be paid for.**

It shall be the Contractor's responsibility to assure that all chemical containers are opened and added to the spray mixture in the presence of the Engineer.

The Contractor shall obtain approval from the Engineer to proceed with spraying at each location 24 hours prior to the proposed spray operations.

The Contractor's superintendent shall closely coordinate work with the Engineer at all times in accordance with Article 105.06. The superintendent shall attend weekly progress meetings with the Engineer at the Engineer's office or other mutually agreed upon location. The superintendent shall communicate with the Engineer in the field during weed control activities to facilitate accurate completion of work while it is occurring. At the request of the Engineer, the Contractor shall provide a cell phone number where the superintendent can be reached during working hours. The Contractor shall notify the Engineer at least twenty-four (24) hours in advance of either discontinuing or resuming operations.

**Pesticide Application Daily Spray Record**

The Contractor will be required to properly track pesticide applications as required by the ILG87 Permit. Reported data from this form will be collected and compiled annually and reported to the IEPA as required.

Within 48 hours of the application of pesticides, including but not limited to herbicides, insecticides, algaecides, and fungicides, the Contractor shall complete and return to the Engineer, Operations form "OPER 2720". OPER 2720 may be found at the following link:

<http://www.idot.illinois.gov/Assets/uploads/files/IDOT-Forms/OPER/OPER%202720.docx>

Added 7/24/2023

## **INACCESSIBLE STUMPS**

In the event a stump is determined by the Engineer, to be inaccessible to stump removal equipment normally used for this type of operation, the stump shall be treated with a resprout herbicide approved by the Engineer to prevent regrowth from those stumps.

All stumps shall be cut flat with no sharp points, and less than two (2) inches of surrounding grade.

All stumps shall be treated with an approved resprout herbicide mixed with a marking dye within twenty-four (24) hours of the tree being cut to prevent regrowth from those stumps. Contractor's personnel applying the resprout herbicide shall have a valid pesticide applicator license issued by the Illinois Department of Agriculture. The resprout herbicide shall be approved by the Engineer. Resprout herbicide shall be incidental to the cost of TREE REMOVAL pay items.

## **INTERSEEDING, CLASS 2A WITH MULCH METHOD 3**

### **Description**

This work shall consist of Interseeding of Class 2A in areas as shown in the plans or as directed by the Engineer.

All work, materials, and equipment shall conform to Sections 250 and 1081 of the Standard Specifications except as modified herein.

### **Layout of Seeding**

The Contractor shall be responsible for filed verifying the acreage of the area(s) to be seeded. The amount of seed ordered shall match the area(s) to be seeded during the pending planting season. A minimum of 30 days shall be allowed for seed acquisition, testing, and inspection.

The Contractor shall demarcate all areas to be seeded and estimate quantities of each area to determine the quantity of seed necessary to achieve the specified seed rate per acre. The Contractor shall delineate the perimeter of the seedbed with wooden lathe placed every 25'. The wooden lathe shall remain in place as specified in the Calendar of Landscape Construction and Establishment Work. The contractor shall provide a minimum of seven calendar days' notice to the Engineer to allow for review and approval of seeding layout.

### **Seed Bed Preparation**

All area(s) to be interseeded must be properly prepared prior to planting seed. Interseeding is the sowing of seed into areas of existing turf or other vegetation. For areas where existing turf or other desirable existing vegetation is to remain and be interseeded to improve cover, prior to interseeding all existing turf or other vegetative cover shall be mowed one or more times to a height of not more than 3 inches. The cut material shall be removed from the site of work to allow penetration of the seed and disposed of according to Article 202.03.

For areas where existing vegetation is specified to be eradicated an application of a non-residual, non-selective herbicide will be required. 10-14 calendar days after the herbicide application, the existing vegetation shall be mowed to a height of not more than 3 inches, removed from the site of work, and disposed of according to Article 202.03.

Added 7/24/2023



Debris encountered during the mowing or interseeding operations which hamper the operation or are visible from the roadway shall be removed and disposed of according to Article 202.03. Damage to the right-of-way and turf, such as ruts or wheel tracks more than 2 inches in depth, shall be repaired to the satisfaction of the engineer prior to the time of interseeding.

### **Seeding Methods**

No seed shall be sown when wind gusts exceed 25 miles per hour or when the ground is not in a proper condition for seeding, nor shall any seed be sown until the purity test has been completed for the seeds to be used, and said tests show that the seed meets the noxious weed seed requirements. All equipment shall be approved by the Engineer prior to being used. Prior to starting work, interseeders shall be calibrated and adjusted to sow seeds at the required seeding rate. Equipment shall be operated in a manner to ensure complete coverage of the entire area to be interseeded. The Engineer shall be notified 48 hours prior to beginning the seeding operations so that the Engineer may determine by trial runs that a calibration of the seeder will provide uniform distribution at the specified rate per acre.

Hand broadcasting or broadcast seeders will be allowed as approved by the Engineer on steep slopes (1:3 (V:H) or steeper) or in inaccessible areas where use of the equipment specified is physically impossible. Broadcast seeding when snowfall is predicted within 24 hours shall be the preferred method.

Within 24 hours of seed placement, Mulch, Method 3 shall be placed on the interseeded areas. On slopes steeper than 1:3 mulch shall be applied the same day as interseeded. Mulch shall be applied uniformly at the rate specified and according to Article 251.03 (c).

### **Method of Measurement**

INTERSEEDING, CLASS 2A will be measured for payment in acres of surface area of seeding for the seed mix type specified.

MOWING will be measured for payment in place in acres of surface area mowed.

MULCH, METHOD 3 will be measured for payment in place in acres of surface area mulched.

### **Basis of Payment**

INTERSEEDING, CLASS 2A shall be paid at the Contract unit price per acre. Payment shall be in full for seed, planting, and furnishing all labor to complete the work as set forth above.

Mowing will be paid for at the contract unit price per acre for MOWING or MOWING (SPECIAL). Only the initial mowing will be paid for. Any subsequent mowing required to obtain a height of not more than 3 inches or to disperse mowed material will be considered as included in the cost of the initial mowing.

Mulch, Method 3 will be paid for at the contract unit price per acre for MULCH, METHOD 3.

Added 7/24/2023

## **LAYOUT MATERIALS**

The Contractor shall furnish the necessary wooden lathe, flags of various colors, ribbon of various colors, and spray paint required for the delineation and marking of work through the duration of the contract. The paint and ribbon shall be of the color(s) as specified by the Engineer. The Contractor shall provide the requested items within seven (7) working days after the Engineer's request. These will not be paid as separate items, but the costs shall be considered as included in the contract prices for landscape items. No additional compensation will be allowed.

**At the time of the preconstruction meeting, the Contractor shall provide two (2) cases of neon pink spray paint, one (1) box of neon green ribbon, and one (1) box of neon pink ribbon, and (2) bundles of lath to the Engineer.**

## **MOWING**

### **Description**

This work shall consist of mowing grass areas to the height of 1 inch to 8 inches dependent on the ground cover type (turf or native) and intent (interseeding or maintenance).

### **Schedule**

See CALENDAR OF CONSTRUCTION AND ESTABLISHMENT WORK in the plans for mowing dates or as directed by the Engineer.

### **Equipment**

The Contractor shall keep all mowing equipment sharp and properly equipped for operation along an urban expressway. The equipment used shall be capable of completely severing all growth at the cutting height and distributing it evenly over the mowed area. Special equipment may be required on steep slopes, in narrow areas, and for trimming around posts, poles, fences, trees, shrubs, seedlings, stone, etc.

### **Method**

All mowing and trimming operations are to proceed in the direction of traffic flow. All areas of existing turf to be interseeded shall be mowed one or more times to a height of not more than 3 inches.

The cut material shall not be windrowed or left in a lumpy or bunched condition. Additional mowing or trimming may be required, as directed by the Engineer, to obtain the height specified, to disperse mowed material, and to allow penetration of the seed.

Debris encountered during the mowing operations which hampers the operation or is visible from the roadway shall be removed and disposed of according to Article 202.03. All trimmings, windrowed material, and debris removal must be complete to the satisfaction of the Engineer. Damage to the turf, such as ruts or wheel tracks more than 2 inches in depth, other plantings, or highway appurtenances caused by the mowing or trimming operation shall be repaired at the Contractor's expense.

Added 7/24/2023

**Method of Measurement**

Mowing and trimming will be measured in acres of surface area mowed at the completion of each mowing cycle.

If the inspection discloses any work as being unsatisfactory, the Engineer will give the Contractor the necessary instructions for correction of same, and the Contractor shall immediately comply with such instructions and correct the unsatisfactory work. Work that is not acceptable on the inspection date will not be measured for payment.

Plan quantities are estimates only. Actual quantities will be measured in place. Agreement to plan quantities will not be allowed. Shrub beds or perennial beds within the mowed area that are less than 1000 square feet will not be subtracted from the area mowed.

**Basis of Payment**

This work will be paid for at the contract unit price per acre for MOWING. Any additional mowing or trimming required to obtain the height specified or to disperse mowed material will be considered as included in the cost of the initial mowing. Payment for mowing and trimming shall include the cost of all material, equipment, labor, removal, disposal, and incidentals required to complete the work as specified herein and to the satisfaction of the Engineer.

**MOWING (SPECIAL)**

**Description**

This work shall consist of mowing and or hand trimming grass areas to the height of 1 inch to 4 inches dependent on the ground cover type (turf or native) and intent (interseeding or maintenance). It shall take place in difficult to mow areas that may consist of one or more of the following scenarios: narrow spaces less than 2 feet wide, steep slopes greater than 2:1, excessive debris and brush, areas of permanently wet conditions, and/or areas of uneven ground. These areas may not be able to be mowed with typical roadside mowing equipment.

**Schedule and Height of Mowing:** As directed by the Engineer.

**Equipment**

The Contractor shall keep all mowing equipment sharp and properly equipped for operation within an urban arterial route. The equipment used shall be capable of completely severing all growth at the cutting height and distributing it evenly over the mowed area. Special equipment may be required to cut weed trees and brush up to 2" diameter on steep slopes, in narrow areas, and for trimming around posts, poles, trees, shrubs, seedlings, along fences and concrete retaining walls, etc.

Added 7/24/2023

### **Method**

All mowing and trimming operations are to proceed in the direction of traffic flow. The cut material shall not be windrowed or left in a lumpy or bunched condition. All drain inlets must be kept clean and draining freely. Additional mowing or trimming may be required to obtain the height specified or to disperse mowed material, and to allow penetration of the seed. When amount of grass is heavy, cut grass shall be removed to prevent destruction of underlying turf. If weeds or other undesirable vegetation threatens to smother planted species, or in case of weeds exceeding growth of planted species, at the direction of the Engineer, the weeds shall be uprooted, raked, and removed from the area. No more than 1/3 of the total growth of grass shall be cut off at one time and only when plants are dry, and soil is not wet.

Remove litter, including plastic bags, paper, bottles, etc. prior to mowing. Debris encountered during the mowing operations, including the cut material from *Phragmites* species and *Teasel* species, shall be removed, and disposed of according to Article 202.03. All trimmings, windrowed material, litter, and debris removal must be complete to the satisfaction of the Engineer. Damage to the turf, such as ruts or wheel tracks more than 2 inches in depth, scalping of the mowed areas, or other plantings or highway appurtenances caused by the mowing or trimming operation shall be repaired at the Contractor's expense and to the satisfaction of the Engineer.

### **Method of Measurement**

Mowing and trimming will be measured in acres of surface area mowed at the completion of each mowing cycle.

If the inspection discloses any work as being unsatisfactory, the Engineer will give the Contractor the necessary instructions for correction of same, and the Contractor shall immediately comply with such instructions and correct the unsatisfactory work. Work that is not acceptable on the inspection date will not be measured for payment.

Plan quantities are estimates only. Actual quantities will be measured in place. Agreement to plan quantities will not be allowed.

### **Basis of Payment**

This work will be paid for at the contract unit price per acre for MOWING (SPECIAL). Any additional mowing or trimming required to obtain the height specified or to disperse mowed material will be considered as included in the cost of the initial mowing. Payment for mowing and trimming shall include the cost of all material, equipment, labor, removal, disposal, and incidentals required to complete the work as specified herein and to the satisfaction of the Engineer.

Added 7/24/2023

## **MULCH PLACEMENT FOR EXISTING WOODY PLANTS**

### **Description**

This work shall be done in accordance with the applicable portion of Section 253.02 (c) and Section 1081.06 (b) of the Standard Specifications for Road and Bridge Construction. It shall consist of furnishing, transporting, and spreading an approved shredded hardwood bark mulch to the depth specified in areas as shown in the plans or as directed by the Engineer.

### **Material**

Hardwood bark mulch shall be clean, finely shredded mixed-hardwood bark meeting the following requirements:

- Material shall be free of sticks, leaves, stones, dirt clods, and other debris.
- Individual wood chips shall not exceed 2 inches (50 mm) in the largest dimension.

A mulch sample and request for material inspection must be supplied to the Engineer for approval prior to performing any work 72 hours prior to application.

### **Method**

The grade, depth, and condition of the area must be approved by the Engineer prior to placement.

The Contractor shall remove all weeds, litter and plant debris before mulching. Pre-emergent herbicide, if specified, shall be applied prior to the placement of shredded mulch. The Contractor shall prepare a neatly spaded edge between the landscaped bed and/or tree ring and the turf. The Contractor shall repair the grade by raking and adding topsoil as needed, before mulching.

The shredded mulch shall be placed according at the required depth as specified in the plans for planting trees, shrubs, vines and perennial plants. Care shall be taken not to bury leaves, stems, or vines under mulch material. Mulch shall not be in contact with the base of the trunk.

All finished mulch areas shall be left smooth and level to maintain uniform surface and appearance.

After the mulch placement, any debris or piles of material shall be immediately removed from the right of way, including raking excess mulch out of turf areas.

### **Method of Measurement**

Mulch placement will be measured in place to the depth specified in square yards (square meters). Areas not meeting the depth specified shall not be measured for payment.

### **Basis of Payment**

This work will be paid for at the contract unit price per square yard (square meter) for MULCH PLACEMENT, of the thickness specified. Payment shall include all costs for materials, equipment and labor required to complete the work specified herein, including the cost of removing and disposing of any debris. Any mulch placement included as part of the work in other work items will not be measured separately for payment. Pre-emergent herbicide, if required, shall be paid for separately.

Added 7/24/2023

## **RESPROUT HERBICIDE**

Resprout herbicide will be defined as described in special provision Weed Control, Basal Treatment. Herbicide will be included as part of work for the following pay items:

- (X0100018) Tree Removal (Under 6 Units Diameter)
- (20100110) Tree Removal (6 to 15 Units Diameter)
- (X2010110) Tree Removal (6-15 Units Diameter), Expedited
- (20100210) Tree Removal (Over 15 Units Diameter)
- (X2010210) Tree Removal (Over 15 Units Diameter), Expedited
- (X2010310) Tree Removal (Special)
- (X2010350) Tree Removal, Acres (Special)
- (Z0064600) Selective Clearing
- (Z0064800) Selective Clearing

If the inspection discloses any work as being unsatisfactory after thirty (30) days of active growing, the Engineer will give the Contractor the necessary instructions for correction of same, and the Contractor shall immediately comply with such instructions and correct the unsatisfactory work within fourteen (14) calendar days. No additional compensation will be given. Removal and disposal of resprout growth will not be measured separately but shall be considered included as part of the pay item.

## **SCOPE OF TREE REMOVAL**

This work shall be done in accordance with Section 201 of the Standard Specifications for all tree removal pay items (i.e. tree removal, limb removal, tree pruning, stump removal, selective clearing, and modified tree pay items herein). All trees to be removed shall be designated by the Engineer. In most cases, the trees will be previously marked with a painted number.

Any tree to be removed that is trapped within the access control fence shall be cut flush with the fence.

The removal of stumps shall be done with mechanical equipment normally used for this type of operation. The Engineer shall have the authority to determine what is considered acceptable stump removal equipment. Saws, axes and similar items shall not be considered proper equipment for removal of stumps over six (6) inches diameter.

The Engineer shall have the ultimate authority to approve the final condition of slash. Slash is acceptable at a maximum depth of two (2) inches. No slash shall be left in drainage ways and be blocking drainage structures. No slash shall be left in piles.

Added 7/24/2023

At all work sites, cleanup shall be done.

**Clean up:**

- The work area shall be kept free of debris by the Contractor. At no time shall empty herbicide containers, trash, or other material be allowed to accumulate at the project site. Parking areas, roads, sidewalks, paths, drainage ways, and paved areas shall be kept free of woody debris, mud, and dirt.
- All tools, empty containers, and all other debris generated by the Contractor shall be removed after work has been completed.
- Wood chips shall be removed and not blown back onto the site.
- Any damages caused by the Contractor including, but not limited to tire ruts, damage to turf, damage to trails, damage to road pavement, etc. shall be repaired by the Contractor, at the Contractor's own expense.
- In the event any vegetation designated to be preserved is damaged, the Contractor shall notify the Engineer within 24 hours. The Contractor shall be liable for remedying damages to plant material.
- Tree debris, logs, equipment, etc. should not be stored within clear zone.
- All cut trees and shrubs shall be removed off site within 24 hours.

**SELECTIVE CLEARING**

**Description**

This work shall consist of extensive removal and disposal of shrubs, brush, weed material, debris (including trash, bottles, etc.) and selected trees up to six (6) inches in diameter. Selective clearing shall include removal of typical amounts of litter and debris encountered during tree removal operations. All trees and shrubs to be saved shall be carefully protected as provided by Article 201.05 of the Standard Specifications. Locations for Selective Clearing and vegetation to be cleared or saved shall be designated by the Roadside Development Unit. Contractor shall contact a representative of the Roadside Development Unit at (847) 705-4171 at least 2 weeks prior to work.

Contractor shall provide the Engineer with a list of herbicides, surfactants, water conditioners, dyes, pH balancers, and other chemicals and adjuvants to be used for implementation of this project for prior approval.

Damages to existing vegetation to remain, such as broken limbs, or other plantings or roadside appurtenances caused by the Contractor's tree removal or trimming operations shall be repaired at the Contractor's expense to the satisfaction of the Engineer.

Added 7/24/2023

The undesirable trees and brush (i.e. Tree of Heaven, Callery Pear, Siberian Elm, European Buckthorn, Mulberry, Ash, Russian Olive, Eurasian Honeysuckle, etc.) shall be cut flush with the ground. All stumps shall be cut flat with no sharp points, and less than two (2) inches of surrounding grade.

All stumps shall be treated with an approved resprout herbicide mixed with a marking dye within twenty-four (24) hours of the tree being cut to prevent regrowth from those stumps. Resprout herbicide shall be included in the cost of SELECTIVE CLEARING.

All herbicides shall be applied according to the manufacturer's label specifications. Contractor's personnel applying the resprout herbicide shall have a valid pesticide applicator license issued by the Illinois Department of Agriculture.

Branches on remaining trees shall be pruned off up to 6 feet from the ground.

All cleared areas shall be graded, trimmed, smoothed, finished uniformly, and left ready to be seeded and blanketed to the satisfaction of the Engineer with equipment approved by the Engineer. The ground shall be relatively free of trash, slash, and woody debris or other foreign material which will prevent the close contact of the mulch or blanket. Disposal of material shall be done in accordance with Article 202.03. The Engineer shall have the ultimate authority to approve the final condition of slash. In areas where seeding will take place the use of a forestry mower to manage minor woody vegetation, grind slash, stumps under 6", and any remaining woody plant debris down to the surface of the soil to prepare the site for future seeding may be needed.

Protection of soils from compaction, erosion, and disturbance are the Contractor's responsibility prior to start of work. Any damage caused by Contractor including but not limited to tire ruts, damage to turf, damage to drainage swales, damage to fence, damage to road pavement, etc. shall be repaired by the Contractor at the Contractor's expense to the satisfaction of the Engineer.

#### **Method of Measurement**

Selective Clearing will be measured in units of 1 ACRE. The unit price shall include the cost of all material, equipment, labor, disposal, and incidental items required to complete the work as specified herein and to the satisfaction of the Engineer.

If the inspection discloses any work as being unsatisfactory, the Engineer will give the Contractor the necessary instructions for correction of same, and the Contractor shall immediately comply with such instructions and correct the unsatisfactory work. Areas not meeting the satisfaction of the Engineer shall not be measured for payment. Plan quantities are estimates only. Actual quantities will be measured in place. Agreement to plan quantities will not be allowed.

#### **Basis of Payment**

This work will be paid for at the contract unit price per ACRE for SELECTIVE CLEARING. Payment for Selective Clearing shall include the cost of all minor grading, debris removal and disposal, trimming, pruning, smoothing, finishing, labor, materials, tools, and equipment required to complete the work as specified herein and to the satisfaction of the Engineer.

Added 7/24/2023



## **SELECTIVE MOWING STAKES**

This work shall be done in accordance with Article 250.08 of the Standard Specifications with the following addition:

On 20% of the selective mowing stakes, as directed by the Engineer, the Contractor shall furnish materials, labor and equipment to attach a 10" x 18" (250 mm x 450 mm) aluminum sign with one of the following texts:

1. Wetland
2. Prairie Plants
3. Wildflowers
4. Seedlings

The text of the sign should be appropriate to the area being delineated with selective mowing stakes. The signs shall be permanently attached to the stakes by a method approved by the Engineer. The signs will be provided by the Department and shall be picked up by the Contractor from the District One Roadside Development Architect in Schaumburg, Illinois. Scheduling the pickup of the signs can be arranged by contacting the District One Roadside Development Unit at (847)705-4171. The cost of picking up and attaching the signs to the selective mowing stakes will not be paid for separately, but shall be included in the contract unit price for SELECTIVE MOWING STAKES.

## **TREE REMOVAL**

This work shall be done in accordance with Section 201 of the Standard Specifications for Tree Removal, except that stumps are to be removed to a minimum of six (6) inches below the natural surface of the ground.

The removal of stumps shall be done with mechanical equipment normally used for this type of operation. The Engineer shall have the authority to determine what is considered acceptable stump removal equipment. Saws, axes and similar items shall not be considered proper equipment for removal of stumps over six (6) inch diameter.

Added 7/24/2023

## **TREE REMOVAL, ACRES (SPECIAL)**

Modified: May 29, 2020

### **Description**

1. 100% removal via mechanical and/or hand cutting methods of woody plant material (trees, shrubs, and vines) and grinding of all stumps.
2. Disposal of all cut trees, shrubs, vines, chips, fallen trees, stumps, and debris/trash shall be hauled off-site in preparation for seeding.
3. Preservation of all native shrubs and trees that are marked with green flagging.
4. Protection of soils from compaction, erosion, and disturbance. Restoration of areas disturbed for access by clearing equipment.
5. Tree Removal, Acres (Special) shall include removal of typical amounts of litter and debris encountered during tree removal operations.
6. Tree Removal, Acres (Special) shall include the use of a forestry mower to manage minor woody vegetation, grind slash, stumps, and any remaining woody plant debris down to the surface of the soil to prepare the site for future native seeding.
7. Damages to existing vegetation to remain, such as broken limbs, frayed limbs, or other plantings or roadside appurtenances caused by the Contractor's tree removal or trimming operations shall be repaired at the Contractor's expense to the satisfaction of the Engineer.

### **Project Preparation**

This shall include preparation of a clearing access plan and identification of sensitive natural resources. Mechanical clearing operations shall not begin until the Engineer indicates that ground conditions are appropriate to commence mechanical work.

A site visit prior to work shall be arranged with the Contractor and the Engineer. Extreme care shall be taken when conducting work within the work site to lessen damage to native vegetation.

### **Submittals**

Contractor shall provide the Engineer with a list of herbicides, surfactants, water conditioners, dyes, pH balancers, and other chemicals and adjuvants to be used for implementation of this project.

Prior to commencement of any work, submit to the Engineer a written description of all mechanical equipment and its intended use during the execution of the work.

Added 7/24/2023

### **Tree Removal and Initial Cut Stump Treatment**

1. All cutting of material shall be completed via mechanical (e.g., tracked skid-loaders, forestry mowers) and/or hand cutting (chain saws, clearing saws) methods. Any mechanized clearing equipment must be approved for use on the Work Site prior to its implementation.

In general, mechanical cutting equipment with all steel tracks or a ground pressure rating of greater than 9.0 psi will not be allowed unless the Contractor can adequately demonstrate that the use of such equipment will not cause adverse rutting/soil compaction to the work site.

The Engineer may specify certain areas as "HAND CLEAR ONLY" to be avoided by mechanical equipment or access paths. In these areas, Contractor is prohibited from using mechanical clearing equipment due to sensitive site conditions.

2. All woody trees and shrubs within the construction limits shall be removed including protruding stumps or fallen trees within the defined area shall be removed. Any woody vegetation under two (2) feet in height shall be treated with a foliar herbicide or resprout herbicide.
3. All stumps not removed because of severe slope or because the site is inaccessible for stump grinding equipment shall be treated with an approved herbicide mixed with a marking dye. Stumps shall be cut flush with the surrounding ground plane.
4. All herbicides shall be applied according to the manufacturer's label specifications. Contractor personnel applying the resprout herbicide shall have a valid pesticide applicator license issued by the Illinois Department of Agriculture.
5. The resprout herbicide shall be approved by the Engineer.
6. The Contractor shall maintain copies at the project site of all current pesticide herbicide labels and MSDS (Material Safety Data Sheets) for all chemicals utilized during completion of the work.

### **Preserved Vegetation**

Branches on remaining trees shall be pruned off up to eight (8) feet from the ground or as directed by the Engineer.

The Contractor shall prune dead branches, sucker growth, and broken or objectionable branches of shrubs to remain. Shrubs may require hard pruning, rejuvenation pruning, or as directed by the Engineer.

Added 7/24/2023

### **Clean Up**

1. The work area shall be kept free of debris by the Contractor. At no time shall empty herbicide containers, trash, or other material be allowed to accumulate at the project site. Parking areas, roads, sidewalks, paths, and paved areas shall be kept free of woody debris, mud, and dirt.
2. All tools, empty containers, and all other debris generated by the Contractor shall be removed after work has been completed.
3. Wood chips shall be removed and not blown back onto the site.
4. Any damages caused by the contractor including, but not limited to tire ruts, damage to turf, damage to trails, etc. shall be repaired by the Contractor. In the event any vegetation designated to be preserved is damaged, notify the Engineer within 24 hours. The Contractor shall be liable for remedying damages to plant material.
5. Tree debris, logs, equipment, etc. shall not be stored within clear zone.
6. All stumps shall under 6 inches shall be ground to 6-inch depth. Stumps over 6-inch depth shall be ground to 12-inch depth in preparation for seeding
7. All cut trees and shrubs shall be removed off the site within 24 hours.

### **Traffic Control**

The Contractor shall provide the necessary traffic control devices to warn the public and to delineate the work zone as required in the Standard Specifications and the State Standards.

### **Method of Measurement**

TREE REMOVAL, ACRES (SPECIAL) will be measured in units of 1 square acre. Areas not meeting the satisfaction of the Engineer shall not be measured for payment. Plan quantities are estimates only. Actual quantities will be measured in place. Agreement to plan quantities will not be allowed.

If the inspection discloses any work as being unsatisfactory, the Engineer will give the Contractor the necessary instructions for correction of same, and the Contractor shall immediately comply with such instructions and correct the unsatisfactory work within forty-eight (48) hours. Work that is not acceptable on the inspection date will not be measured for payment. Individual areas will not be measured for payment if any portion of the area has not been completed to the satisfaction of the Engineer.

Resprout herbicide shall be included in the cost of TREE REMOVAL, ACRES (SPECIAL).

### **Basis of Payment**

This work will be paid for at the contract unit price per acres for TREE REMOVAL, ACRES (SPECIAL). Payment for TREE REMOVAL, ACRES (SPECIAL) shall include the cost of all labor, materials, equipment, tools, stump removal, trimming, pruning, resprout herbicide application, debris removal and disposal, minor grading, smoothing, finishing, and incidentals required to complete the work as specified herein and to the satisfaction of the Engineer.

Added 7/24/2023

## TREE REMOVAL AND FORESTRY WORK RESTRICTIONS

The Northern Long Eared Bat (NLEB) has been reclassified as an endangered species under the Endangered Species Act by the U.S. Fish and Wildlife Service (USFWS). To avoid and minimize impacts to the NLEB and its habitat, District One has implemented time restrictions for all tree removal and forestry work. This work shall not occur from April 1 to October 31 of any given year throughout District One.

Forestry work includes tree pruning and tree limb removal of live or dead branches, clearcutting, selective clearing, and the removal of live or dead trees measuring 3 inches (3") in diameter or greater at a point of 4.5 feet (4.5') above the highest ground level at the base of the tree.

Forestry work that is considered hazardous or a safety concern can be removed any time during the calendar year upon approval of the IDOT Roadside Development Unit (RDU). Any requests shall be made to the Resident Engineer for a consultation with the RDU.

No additional compensation or extension of time will be allowed to comply with these restrictions.

No adjustment will be made in the contract unit prices for any forestry work pay items necessary to meet the required completion dates specified in the contract.

Significant penalties may result for knowingly violating any provision of the Endangered Species Act.

## WEED CONTROL, BROADLEAF IN TURF (POUND)

### Description

This work shall consist of the application of a broadleaf herbicide along highway roadsides for control of teasel and other broadleaf weeds.

### Materials

The broadleaf herbicide shall have the following formulation:

Active Ingredient:	
Metsulfuron methyl (Methyl 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]-carbonyl]-amino]sulfonyl]benzoate)	60%
Inert Ingredients:	<u>40%</u>

Total - 100%

Added 7/24/2023

The Contractor shall submit a certificate, including the following, prior to starting work:

1. The chemical names of the compound and the percentage by weight of the ingredients which must match the above specified formulation.
2. A statement that the material will form a satisfactory emulsion for use when diluted with water for normal spraying conditions.
3. A statement that the Escort or equal, when mixed with water, will be completely soluble and dispersible and remain in suspension with continuous agitation.
4. A statement describing the products proposed for use when the manufacturer requires that surfactants, drift control agents, or other additives be used with the product. These tank mix additives shall be used as specified by the manufacturer. Required additives will not be paid for separately.

**All material shall be brought to the spray area in the original, unopened containers supplied by the manufacturer.**

#### **Application Rate**

The broadleaf herbicide shall be applied at the rate of one (1) ounce per acre.

One (1) ounce of herbicide formulation shall be diluted with a minimum of forty (40) gallons of water and applied as a mixture. Water for dilution of the mixture will not be paid for separately.

Total herbicide applied quantity shall not exceed yearly total quantity of 4 ounces per acre as per the herbicide label.

#### **Application Schedule**

Application(s) shall be completed between April 1 and May 30 in Spring and/or between August 15 and September 15 in the Fall.

More than one application of the herbicide may be required during the duration of the contract.

#### **Method of Measurement**

WEED CONTROL, BROADLEAF IN TURF will be measured for payment in pounds of undiluted herbicide applied as specified. The pounds for payment will be determined based on the pounds specified on the label attached to the original container supplied by the manufacturer.

#### **Basis of Payment**

WEED CONTROL, BROADLEAF IN TURF will be paid for at the contract unit price per pound for WEED CONTROL, BROADLEAF IN TURF. Water for dilution of the mixture and additives required for application will not be paid for as separate items, but the costs shall be considered as included in the contract price, and no additional compensation will be allowed.

Added 7/24/2023

## **WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT**

Modified: February 3, 2018

### **Description**

This work shall consist of controlling and/or removing weeds (woody and herbaceous) growing within native landscapes (prairies, savannahs, woodlands, wetlands, etc.). Various methods of weed control (hand weeding, hand trimming, spot spraying, wicking, etc.) may be required depending on the location, type of weeds, and size of weed infestation. These selective weed control areas may not be able to be treated with typical large roadside herbicide spraying equipment. Locations for Weed Control, Native Landscape Enhancement shall be designated by the Engineer.

The undesirable weeds (invasive tree saplings (ie: buckthorn, honeysuckle, tree of heaven, etc.), teasel, thistle, phragmites, etc.) shall be removed and/ or treated with the appropriate weed control method approved by the Engineer prior to the start of work per location. Multiple weed species may be treated during each site visit. All herbicides shall be approved by the Engineer prior to the start of work.

All weed control areas shall be completed to the satisfaction of the Engineer with equipment, method, and/or herbicide approved by the Engineer. Disposal of material shall be done in accordance with Article 202.03.

### **Schedule**

The dates for optimum Weed Control, Native Landscape Enhancement shall be as directed by the Engineer. Individual weed species may be targeted and shall be spot sprayed during the appropriate growth stage. Weed control must be completed in a timely manner. When the Engineer directs the Contractor to control the weeds, the Contractor must begin the weed control operation within 7 days of notice.

### **Equipment and Herbicides**

Special equipment such as backpack sprayers, hand sprayers, and hand pruners may be required to conduct spot herbicide treatments and manual removal of weeds in small areas. All equipment shall be approved by the Engineer. The Contractor shall submit for approval labels for all proposed herbicides, including the following, prior to starting work:

1. The chemical names of the compound and the percentage by weight of the ingredients.
2. A statement that the material will form a satisfactory emulsion for use when diluted with water for normal spraying conditions.
3. A statement that the herbicide, when mixed with water, will be completely soluble and dispersible and remain in suspension with continuous agitation.
4. A statement describing the products proposed for use when the manufacturer requires that surfactants, drift control agents, or other additives be used with the product. These tank mix additives shall be used as specified by the manufacturer. Required additives will not be paid for separately.

Added 7/24/2023

**All material shall be brought to the spray area in the original, unopened containers supplied by the manufacturer.**

**Application Rate**

Follow manufacturer's recommendation for the various herbicides.

**Method**

All weed control operations are to proceed in the direction of traffic flow.

If weeds or other undesirable vegetation threatens to introduce seed into naturalized areas, smother planted species, or in case of weeds exceeding growth of planted species, at the direction of the Engineer, the weeds shall be: spot sprayed, wicked, hand trimmed or uprooted, raked and removed from the area. Weeds shall be removed in a manner that does not damage the underlying native grasses and forbs.

The cut material from common reed (*Phragmites australis*), teasel species (*Dipsacus* spp.), and thistle species (*Cirsium* spp.) shall be removed and disposed of according to Article 202.03.

Remove litter, including plastic bags, paper, bottles, etc. prior to weed control. All weeds, litter, and debris removal must be complete to the satisfaction of the Engineer and disposed of according to Article 202.03. Damage to the native vegetation, such as ruts or wheel tracks more than 2 inches in depth, other plantings, or highway appurtenances caused by the weed control enhancement operation shall be repaired at the Contractor's expense and to the satisfaction of the Engineer.

**Method of Measurement**

The work will be measured in units of 1 (one) square acre of surface area cared for to the satisfaction of the Engineer.

If the inspection discloses any work as being unsatisfactory, the Engineer will give the Contractor the necessary instructions for correction of same, and the Contractor shall immediately comply with such instructions and correct the unsatisfactory work within 7 calendar days. Removal and disposal of debris will not be measured separately but shall be considered included.

Areas not meeting the satisfaction of the Engineer shall not be measured for payment. Plan quantities are estimates only. Actual quantities will be measured in place. Agreement to plan quantities will not be allowed.

**Basis of Payment**

This work will be paid for at the contract unit price per ACRE for WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT. Payment for Weed Control, Native Landscape Enhancement shall include all materials, equipment, labor, removal, disposal, and incidentals required to complete the work as specified herein and to the satisfaction of the Engineer.

Added 7/24/2023



**WEED CONTROL, AQUATIC**

Revised: January 17, 2016

**Description**

This work shall consist of the application of a non-selective and non-residual herbicide for weed control in wet areas. Applications may only be made for the control of undesirable vegetation in and around standing and flowing water. Equal formulation must be approved to use in or near water.

**Materials**

The herbicide shall have the following formulation and must be labeled for use in wetlands and over water:

Active Ingredient:

*Glyphosate, N-(phosphonomethyl) glycine, in the form of its isopropylamine salt	53.80%
Inert Ingredients	<u>46.20%</u>
TOTAL	100.00%

The Contractor shall submit a certificate, including the following, prior to starting work:

1. The chemical names of the compound and the percentage by weight of the ingredients which must match the above specified formulation.
2. A statement that the material is in a solution which will form a satisfactory emulsion for use when diluted with water for normal spraying conditions.
3. A statement that the herbicide, when mixed with water, will be completely soluble and dispersible and remain in suspension with continuous agitation.
4. A statement describing the products proposed for use when the manufacturer requires that surfactants, drift control agents, or other additives be used with the product. These tank mix additives shall be used as specified by the manufacturer. Required additives will not be paid for separately.

**All material shall be brought to the spray area in the original, unopened containers supplied by the manufacturer.**

**Application Rate**

The herbicide shall be applied at the rate of 1 gallon per acre. Formulation shall be diluted with a minimum of twenty- five (25) gallons of water and applied as a mixture. Water for dilution of the mixture will not be paid for separately.

**Method of Measurement**

Weed Control, Aquatic will be measured for payment in gallons of undiluted herbicide applied as specified. The gallons for payment will be determined based on the gallons specified on the label attached to the original container supplied by the manufacturer.

Added 7/24/2023

### **Basis of Payment**

Weed Control, Aquatic will be paid for at the contract unit price per gallon for WEED CONTROL, AQUATIC. Water for dilution of the mixture and additives required for application will not be paid for as separate items, but the costs shall be considered as included in the contract price for WEED CONTROL, AQUATIC, and no additional compensation will be allowed.

### **WOODY PLANT CARE**

#### **Description**

This work shall consist of weeding, replenishing mulch, debris removal and disposal, pruning, edging, and other plant care work items as described herein and as directed by the Engineer.

#### **Work Requirements**

- Dead branches, sucker growth and broken or objectionable branches (cross branches) on trees and shrubs must be pruned prior to bud break or when dormant.
- Do not prune shrubs into manicured shapes (cubes or globes).
- Vines that are growing across or onto shrubs and/or trees must be corrected so the vine is encouraged to grow up the desired vertical surface.
- Prepare a neatly spaded edge between the landscaped bed and/or tree ring and the turf.
- Remove any debris caught in trees or shrubs without damaging plant. Remove all weeds, litter and plant debris before mulching.
- Tree beds, shrub beds, vine beds, and tree saucers must be 100 percent weed-free and clear of debris to be acceptable. Control weeds in planting beds by pulling entire plant and roots.
- Shredded mulch must be replenished to maintain a 4" depth (no more, no less) around woody plants.
- Shredded mulch shall be kept 6" from the trunk of the tree/shrub.
- Care shall be taken not to bury leaves, stems, or vines under mulch material.
- All finished mulch areas shall be left smooth and level to maintain uniform surface and appearance.
- Mulch must be raked out of turf surrounding the mulched bed or saucer.
- After the mulch placement, any debris or piles of material shall be immediately removed from the right of way, including raking excess mulch out of turf areas.
- All debris which results from this operation must be removed from the right-of-way at the end of each day.

Added 7/24/2023

**Material**

Hardwood bark mulch shall be clean, finely shredded mixed-hardwood bark meeting the following requirements:

- Material shall be free of sticks, leaves, stones, dirt clods, and other debris.
- Individual wood chips shall not exceed 2 inches in the largest dimension.

A mulch sample and request for material inspection must be supplied to the Engineer for approval prior to performing any work 72 hours prior to application.

**Method of Measurement**

This work will be measured for payment as each tree (shade, intermediate, or evergreen), each shrub, and each vine cared for to the satisfaction of the Engineer. If the Engineer notes any work as being unsatisfactory, the Engineer will give the Contractor the necessary instructions for correction of same, and the Contractor shall immediately comply with such instructions and correct the unsatisfactory work. Work that is not acceptable will not be measured for payment. Individual shrubs/trees within a shrub bed will not be measured for payment if any portion of the shrub/tree bed has not been cared for to the satisfaction of the Engineer.

**Basis of Payment**

This work will be paid for at the contract unit price each for TREE CARE, SHRUB CARE, and VINE CARE which price shall include all materials, equipment, and labor necessary to complete the work specified.

Added 7/24/2023