**Introduction**

The Washington State Department of Transportation’s (WSDOT) Northwest Region Area 5 manages vegetation within approximately 220 miles of state highway corridor in King and southwest Snohomish Counties. Crews in this maintenance area contend with some of the highest traffic volumes in the state. Major corridors in the area include portions of Interstates 5, 90 and 405. Other limited access corridors include State Routes 520, and 599/99. Roadsides along secondary highways within incorporated city limits are typically maintained by the cities. A map of all highways in the area is included as Figure 1 on the following page.

The primary roadside vegetation management objectives are in relation to traffic safety and preservation of the highway infrastructure. Additionally, as a landowner WSDOT is required to control all listed noxious weeds that occur on the right-of-way by state law (RCW 17.10 and 15.15.010). It is important that WSDOT not only meet the legal requirements for weed control, but also consider the needs and concerns of adjacent landowners in this area.

In order to best manage roadsides with these priority objectives in mind, WSDOT practices an annually cycling process called Integrated Vegetation Management (IVM). Plans like this are maintained and updated annually for all areas of the state with an overall goal of establishing the most naturally self-sustaining roadsides vegetation possible. Adjustments are made year to year in each area plan, based on monitoring the previous years’ accomplishments and results, available budget, and prioritization of other highway maintenance activities.

This plan serves as the guidance document for vegetation maintenance in Northwest Region Area 5 for the 2017 growing season. It provides a general description of the area work plan, and includes treatment prescriptions for accomplishing safety and prioritized weed control objectives through the use of a combination of seasonally-timed control measures. Each year’s actions are designed as part of a coordinated multi-year strategy to efficiently maintain traffic safety and comply with weed control laws on all state roadsides, and working within budget, to invest in restoring a set of selected priority locations to a stable self-sustaining native condition. This plan also accounts for specific locations where maintenance tactics are adjusted due to environmental issues, neighboring properties, local partnerships, or restoration work done through WSDOT design and construction.

The information contained in this plan document is referenced and utilized by crews in the field using iPads and the Highway Activity Tracking System (HATS). Accomplishments and results are also tracked and referenced through this system, as part of the budget planning and maintenance accountability process. Carrying iPads in the field also gives maintenance crews the ability to reference a wide range of technical information and alerts for locations with environmental sensitivity or special agreements with neighbors.

WSDOT welcomes input from local public and private entities on its weed control and other vegetation management activities. Wherever appropriate the agency is looking for opportunities to plan and cooperate with others in managing the roadside. Please direct any questions, comments or suggestions to the Northwest Region Area 5 Superintendent – Jim McBride or the State’s Roadside Asset Manager – Ray Willard.

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Northwest Region Area 5 IVM Work Plan – 2017

The section outlines the overall approach and geographic distribution of roadside vegetation management requirements throughout the maintenance area in 2017. Information is organized in relation to four groups of activities defined in the WSDOT Maintenance Accountability Program (MAP) for the performance of roadside vegetation maintenance activities: **Control of Vegetative Obstructions**, **Noxious Weed Control**, **Nuisance Vegetation Control**, and **Landscape Maintenance**. Specific locations as noted in this work plan are also mapped in the Highway Activity Tracking System (HATS) for reference by maintenance in the field.

**Control of Vegetative Obstructions – 3A4**
The work of this group of maintenance activities relates to the safety and operational requirements of the highway. These items are considered first priority in terms of the overall roadside maintenance needs. Vegetation management objectives and work activities in this category fall into four groups – **Pavement Edge Maintenance/Zone 1**, **One Pass Mowing/Zone 2**, **Tree and Brush Control/Zone 2 and 3**, and **Hazard Tree Removal/Zone 3**.

**Pavement Edge Maintenance/Zone 1**
**Work Operation:** 1615  
**HATS Form:** Spray Zone 1  
**HATS Map Layer:** Reference lines – Roadside Features/Spray Zone 1 Reference

This work includes the application of herbicides to road shoulders where necessary throughout the area. The objective of these applications in designated locations is preserving of a band of gravel shoulder adjacent to the pavement that is free of vegetation. This treatment is necessary in the mapped locations described below to provide visibility and maintainability of roadside hardware and guideposts, allow room for vehicles to safely pull off on shoulders, facilitate stormwater drainage, and/or provide added visibility of wildlife approaching the highway.

**Total Units of Planned Treatment**
- Apply approximately **220 acres** of herbicide treatment to road shoulders throughout the area.

**Locations of Planned Treatments**
- Planned treatment sites are mapped in HATS layer – **Spray Zone 1 Reference**.
- Locations where bare ground treatments will be applied to all gravel shoulder sections include:
  - Except as noted below, all shoulders throughout the area will receive an annual application of herbicide in the spring
- Locations where no bare ground treatment will be applied include:
  - Locations along secondary roads where there neighboring property owners have agreed to maintain the roadside
  - I-90, MP 16 to 19 – Wellhead protection areas

**Treatment Methods**
- Herbicides are applied using a truck mounted power spray system calibrated to deliver a 3-foot band of spray mixture adjacent to the paved shoulder. The resulting width of treated shoulder may be wider than 3 feet in areas with steeper shoulder slope.
- In locations with cable rail – If the rail is less than 8 ft. from the edge of pavement, the bare ground treatment will extend from the pavement edge to the back side of the cable rail. In locations where the rail is greater than 8 ft. from the edge of pavement, treatment will be applied in 3 ft. band directly under the rail.
• In locations with guardrail, treatment band width will be extended to the back side of hardware.
• All noted locations will be treated in spring with either of the following mixtures of herbicides and adjuvants:
  Mix 1
  o Opensight @ 3 ozl/acre
  o Landmark XP @ 3 ozd/acre
  o Ranger Pro @ 64 ozl/acre
  o In Place @ 16 ozl/acre
  Mix 2
  o Frequency @ 4 ozl/acre
  o Landmark XP @ 3 ozd/acre
  o Ranger Pro @ 64 ozl/acre
  o Insist 90 @ 16 ozl/acre
  o In Place @ 16 ozl/acre

Safety Mowing/Zone 2
Work Operation: 1625
HATS Form: Mowing Zone 2
HATS Map Layer: Reference lines – Roadside Features/Mowing Zone 2 Reference
  This work includes routine mechanical cutting of all vegetation on the road shoulder in a band width immediately adjacent to pavement. Mowing is necessary in areas where taller growing grasses or other vegetation are present and must be annually or semi-annually cut back for visibility and maintenance of roadside hardware and delineators, to maintenance traffic sight distance at curves and intersections, and for improved visibility of wildlife approaching the highway. Mowing height for these operations is typically 6 to 8 inches above the ground.

Total Units of Planned Mowing
• Approximately **200 acres** of Zone 2 safety mowing will be conducted throughout the area.

Locations of Planned Mowing
• Planned Zone 2 mowing locations are mapped in HATS reference layer - Mowing Zone 2 Reference
• All roadsides with vegetation along the edge of pavement will be mowed out to specified widths once per year in late spring/early summer
• Prioritized for annual safety mowing including:
  o SR 202 Ames Lake Rd, 308th intersection, Mills Farm. NE 55th. Spring Glen area MP 23.Tolt Hill Rd intersection Fish Hatchery Rd both ends,
  o SR 203, SE 3rd. NE 24th, Horse Crossing at first bridge, NE 11th. S end of Tolt River Bridge.
  o I-405/NE 8th interchange for sight distance issues and concerns with transients
  o I-90/Eastgate interchange for sight distance issues and concerns with transients

Treatment Methods
• Mowing width varies between 5 and 25 feet as specified on the HATS maps.
• Mowing will be done with multiple types of tractor mounted mowers including a 3-deck, 25 ft. total width mower, side arm mounted flail and rotary mowers, and orchard mowers.

Tree and Brush Control/Zone 2 and 3
Work Operations: 1622, 1625, 1626
HATS Forms: Tree/Brush Control – Spray, Trimming Mechanical, Trimming Manual, and Mowing
HATS Map Layer: None

This includes safety and traffic operations related work in Zone 2, such as periodic side-trimming or removal of brush and trees or tree branches encroaching on or overhanging traffic operations, and impacting sign visibility. Also included is work in Zone 2 and 3 when selectively controlling emergent early succession tree species – to prevent them from growing into mature hazard trees within striking distance of the road. Removal of mature-sized dead, diseased, dying or structurally defective and hazardous trees is also included in this activity group.

Total Units of Planned Treatment
- Approximately **150 acres** will be mechanically trimmed throughout the area.
- Approximately **25 acres** will be treated with herbicides.

Locations of Planned Treatments

415530
- I-5 – MP 180.19 – 180.59, small trees
- I-5 – swamp creek site distance issues
- I-5, NB/SB, MP 178-172, mow out ditch lines where applicable
- I-5, MP 177.6, remove vegetation hanging down from wall along on ramp to SB
- I-5 off ramp to WB SR 104, remove vegetation hanging down from wall
- I-5/SR 104, NE 175th, NE 145th, NE 130th, Northgate Way, mow INT
- SR 104/HWY, 5th Ave, mow INT (west side of 5th only)
- SR 104, MP 24.70-24.10 mow along Edmonds Marsh edge
- SR 405, 70th and 85th street structures, cleanup shoulders and ditch lines of brush, scotch broom, and small trees.
- SR 405, 124th structure, mow ditch lines of grass, blackberries and scotch broom, cut blackberries back on overpass away from guardrail, cut brush and small trees back from guardrail NB ramps.
- SR 405, Mow brush back from on top of and behind rail, mp. 15 to 22.
- SR 405, Mow blackberries from on top of and behind rail, 195th/beardslee structure.
- SR 405, south bound from 195th ramp, mow back brush from side walk to the metro bus stop.
- SR 405, trim trees back from right side of ramp to 124th from SB 405.
- SR 405, limb up trees on the ramp from 195th to SB and 195th to NB, right sides of ramps.
  - I-405 and 527 interchange milepost 26
  - I-5 and 196th interchange milepost 180.5
- 522 – ramps and interchanges
- 522 – EB 522, just after 195th, hillside leading down to the ditch line, access.
- 522 – WB, just above the wall after the college, access.
- 202 – site distance problems just north of 124th
- 202 – multiple areas where brush/blackberries is encroaching on shoulder

415520
- I-5 – Columbian interchange
- I-5 – Corson/Michigan interchange area
- I-5 – 80th/85th interchange area
- I-90 – 72nd and 22nd vicinity
- SR900 – WB

415510
- SR 18 - EB MP 21 to MP 25, 2 or 3 pass brushing with Side arm
- SR 18 - WB MP 25 to MP 23, 2 or 3 pass brushing with side arm
• SR 18 – MP 20 to MP16.88 to remove encroaching brush and improve sight distance
• I-90 - MP 19 to MP20 remove trees encroaching clear zone
• I-90 MP 31 to MP 33 improve sight distance and to help control the spread of Scotch broom east into Area 1
• SR202 - MP22.5 and 24.3 remove encroaching trees, brush and some canopy
• SR202 - MP 12.5 area remove encroaching trees and brush
• I405/SR 520 interchange to remove encroaching trees and blackberries to improve sight distance issues and drainage
• I90/SR 900 interchange to remove encroaching trees and brush to improve sight distance problems

Treatment Methods
• Tractors with side-arm mounted mowing heads, skid-steer with brush head, man-lift, hand held saws, pole saws, and chippers.
• Herbicides will also be used to trim and remove encroaching tree seedlings and brush in the late summer/fall. Products used:
  o Garlon 3A @ 128 ozl/acre
  o SylTac @ 8 ozl/acre

Hazard Tree Removal/Zone 3
Work Operation: 1628
HATS Forms: Hazard Tree Removal – Individual Tree Removal, Stand Removal, and Cleanup Fallen Trees
HATS Map Layer: None

Trees within and adjacent to the right of way are routinely monitored by maintenance staff for potential risk to the highway and/or neighboring structures. Individual and stands of trees identified, as a potential imminent threat will be evaluated using best arboricultural judgment and removed as soon as possible where needed.

Total Units of Planned Treatment
• There are typically between 300 and 400 mature hazard trees removed throughout the area each year.

Locations of Planned Treatments
• Crews are continuously looking for trees that exhibit structural defects and could strike the road or neighboring property if they come down. Any hazard trees identified at any time are removed as soon as possible.
• If trees growing outside WSDOT right of way are hazards, crews work with the neighboring property owner to negotiate removal.

Treatment Methods
• WSDOT crews typically fall hazard trees as needed. Occasionally for more challenging work crews contract with a professional Arborist.
• Hand cutting with chainsaws, and high lift equipment as needed
• Material is left to decompose on site where possible

Noxious Weed Control – 3A2
This group of activities is focused on control of weed species and infestation locations identified in this plan document and mapped in HATS. The focus is on species that are legally designated in state and county regulations for required control by all property owners, along with any other identified and agreed upon species/locations that pose a unique threat to the roadside or surrounding environment if not controlled. Work under this group is considered second priority after safety related objectives have been addressed.
In some counties, noxious weed laws may be enforced with fines and/or control work by the counties and billing of property owners – if adequate control is not accomplished. WSDOT communicates annually and throughout the season with each County Noxious Weed Board, to identify and prioritize treatment sites on state highways.

WSDOT employs three distinct strategies in planning and executing noxious weed control efforts. Any and all Class A species that occur on the right of way are treated as Priority Noxious Weed Control, and all maintenance actions are planned and tracked as individual, multi-year treatment sites. General Noxious Weed Control is planned and executed in one of two ways: 1.) Area-wide patrol and control operations are made in the early summer with a goal of spraying or pulling all visible target species and any notifications from the County weed boards, prior to seed-set, and 2.) Early and late season treatments are planned for a set of prioritized and mapped infestation points where the goal is early detection/rapid response/eradication.

Priority Noxious Weed Control
Work Operations: 1616, 1618, 1641
HATS Point Feature-based Forms: Priority Infestation
HATS Map Layer: Feature points – Roadside Features/Noxious Weed Control Priority

These operations are directed at locations where Class A noxious weed species are present on the right of way and state law requires complete eradication. Site specific integrated treatment plans are developed for each identified location/species, and all control activities are recorded as point feature data in HATS. Ongoing operations will combine field monitoring and a mixture of seasonally timed treatment methods over a series of years. Sites must also be monitored for 3 to 5 years after control to check for grow back.

Species and Locations
- Giant hogweed – I-5 at Mercer next to Express Lanes
- Spanish broom – I-5 MP169.3 south side bridge abutment
- Garlic mustard – I-5 NB MP179.2 on the outside of the 220th St. SW offramp

Total Units of Planned Treatment
- Less than one acre total treatment including all three sites.

Treatment Methods
- Giant hogweed – Individual plants will be cut at the base of stalk and stump treated with Garlon 4, after flower buds form but prior to seed set
- Spanish broom – Site has been cut and treated by WSDOT and the County Weed Board. Continue to monitor for seedlings each spring and fall.
- Garlic mustard – Treat with Perspective @ 3 ozl/acre in spring, monitor for regrowth in the fall.

General Noxious Weed Control
Work Operations: 1616, 1618, 1699
HATS Form: Noxious Weed Control General – Noxious Weed Control-Spray, Noxious Weed Control-Mechanical, Noxious Weed Control-Manual, and Noxious Weed Control-Biological
HATS Map Layer: Reference points – Roadside Features/Noxious Weed Control General (Under Development)

These operations are timed and carried out throughout the season to prevent the spread of designated noxious weed species, and to reduce or eliminate populations wherever possible. Integrated treatments as described in the table below, are planned to address infestations through 1.) seasonally timed treatments of identified priority sites, or 2.) during late spring/early summer section patrols to treat all visible target weed species. Successful plans are consistently implemented over a series of years and annually adjusted as necessary based on field observations. Care is taken in all cases to avoid damage to surrounding desirable/native vegetation.
Target Noxious Weeds on WSDOT Right of Way in Northwest Region Area 5

<table>
<thead>
<tr>
<th>Common Name/Botanical Name</th>
<th>Treatment Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Absinth wormwood/Artemisia absinthium</td>
<td>King County will send notifications if found and any reoccurring infestation sites will be mapped</td>
</tr>
<tr>
<td>Bull thistle/Cirsium vulgare</td>
<td>Control small patches where visible in conjunction with seasonal patrols</td>
</tr>
<tr>
<td>Butterfly bush/Buddleia davidii</td>
<td>Control where visible, priority target sites mapped on I-5 in Tukwilla</td>
</tr>
<tr>
<td>Canada thistle/Cirsium arvense</td>
<td>Control small patches where visible in conjunction with seasonal patrols</td>
</tr>
<tr>
<td>Common reed/Phragmites australis</td>
<td>Target sites mapped and treated in the fall</td>
</tr>
<tr>
<td>Dalmatian toadflax/Linaria dalmatica</td>
<td>Target sites mapped and treated in the spring and fall</td>
</tr>
<tr>
<td>European Hawkweed/Hieracium sabaudum</td>
<td>Target sites mapped and treated in the late summer</td>
</tr>
<tr>
<td>Hawkweed sp./Hieracium sp.</td>
<td>Control where visible in conjunction with seasonal patrols</td>
</tr>
<tr>
<td>Knapweed sp./Centaurea sp.</td>
<td>Control where visible in conjunction with seasonal patrols, priority target sites are mapped and treated in the spring</td>
</tr>
<tr>
<td>Knotweed sp./Polygonum sp.</td>
<td>Target sites will be mapped and treated after flower stage in late summer</td>
</tr>
<tr>
<td>Poison hemlock/Conium maculatum</td>
<td>Control where visible in conjunction with seasonal patrols, priority target sites are mapped and treated in the spring</td>
</tr>
<tr>
<td>Purple loosestrife/Lythrum salicaria</td>
<td>Target sites will be mapped and treated at early flower stage in summer</td>
</tr>
<tr>
<td>Ragwort tansy/Senecio jacobaea</td>
<td>Occurs sporadically throughout the area. All visible plants are sprayed in the spring prior to bud/seed set, any remaining plants visible in flower are hand pulled with seed heads removed, bagged, and disposed of</td>
</tr>
<tr>
<td>Rush skeletonweed/Chondrilla juncea</td>
<td>Target sites mapped and treated in the spring</td>
</tr>
<tr>
<td>Scotch broom/Cytisus scoparius</td>
<td>Controlled in conjunction with seasonal weed patrols, when present in small isolated patches, and any visible plants along I-90 east of Issaquah</td>
</tr>
<tr>
<td>Sulfur cinquefoil/Potentilla recta</td>
<td>Target sites will be mapped and treated in the spring</td>
</tr>
<tr>
<td>Viper’s bugloss/Echium vulgare</td>
<td>King County will send notifications if found and any reoccurring infestation sites will be mapped</td>
</tr>
</tbody>
</table>

Total Units of Planned Treatment
- Approximately **100 acres** will be treated with a mixture of herbicide treatments and other methods

Locations of Planned Treatments
- Treatment locations are described in the table above

Treatment Methods and Timing
- Treatments are carried out as described in the table above
- Herbicide mixtures used include:
  - **Mix 1**
    - Opensite @ 3 ozl/acre
    - Syltac @ 8 ozl/acre
  - **Mix 2**
    - Capstone @ 128 ozl/acre
    - Syltac @ 8 ozl/acre
Nuisance Vegetation Control – 3A3

Nuisance vegetation control takes place only in a select set of carefully prioritized locations throughout the area. These locations are delineated on maps in HATS as polygon outlines in Zone 3. Locations are prioritized to take place where there is heightened local interest in the visual appearance and condition of the roadside vegetation. Typical locations include: wider areas along limited access freeways in urban and suburban areas, freeway interchanges for local urban centers, environmentally sensitive areas, and areas where neighbors are willing to partner with WSDOT on management efforts. Because nuisance weed control activities are not related to safety or legal requirements, and are primarily undertaken to improve the visual appearance of the roadside, they are considered the last priority vegetation management needs.

For all areas designated to receive Nuisance Vegetation Control, multi-year treatment plans have been developed. The actions contained in these plans will be executed and tracked in relation to specific Zone 3 polygons for Nuisance Vegetation Control Zone 3, referenced on HATS maps and described below.

Nuisance Vegetation Control
Work Operations: 1611, 1612, 1699
HATS Feature-based Forms: Herbicide Application, Manual/Mechanical, Biological, and Seed/Fertilize/Mulch
HATS Map Layer: Feature polygons – Roadside Features/Nuisance Vegetation Control Zone 3

Maintenance activities in each identified location are planned and tracked as multi-year treatment strategies utilizing monitoring and the most effective combination of control methods – with a goal of establishing desirable vegetation that requires only minimal maintenance. Care must be taken in all cases to avoid damage to surrounding desirable/native vegetation. In some cases, soil enhancements may be used as well as seeding or planting of beneficial competition species. Successful plans are consistently implemented over a series of years and annually adjusted as necessary based on field observations.

Total Units of Planned Treatment
- Approximately 30 acres will be treated with herbicides for nuisance weed control.
- Approximately 100 acres will be mowed for nuisance

Locations of Planned Treatments
- Reference HATS layer – Nuisance Vegetation Management.

Treatment Methods and Timing
- Multi-year IVM treatment plans will be developed for the following Zone 3 areas throughout the area:
  - I-5 milepost 171-183 right sides, left sides, median, and ramps.
  - I-405 milepost 30-15 staying out of the contract zone, right sides, left sides, median, and ramps right sides, left sides, median, and ramps.
  - SR-522 milepost 6-13 right sides, left sides, median, and ramps.
  - SR-104 milepost 24.57-26 right sides, left sides, and ramps, islands.
  - SR-104 milepost 27-29 right sides, left sides, and ramps, islands.
  - SR 104, MP 25.47, Quadrant on west side of 5th Ave
  - SR 104/HWY 99 INT, MP 27.92, Quadrants surrounding this INT
  - SR 105/I-5 INT, Quadrants surrounding this INT
  - I-5/NE 175th INT
  - I-5/NE 145th INT
  - I-5/NE 130th INT
  - I-5/Northgate Way INT
Landscape Maintenance – 3A5
Landscape maintenance work includes all vegetation management activities that take place on roadsides within areas designated as formal urban planting areas where the intention is to enhance the appearance of freeways through urban centers. For these roadsides the goal is to maintain healthy plantings in all three zones and to control all weeds. Planted vegetation is intended to be preserved and enhanced over time through pruning, hedging, trimming, and fertilization where necessary.

Landscape
Work Operations: 1516, 1518, 1525, 1541, 1552, 1561, 1599
HATS Forms: 7 sub-forms under Landscape – Weed Control – Spray, Weed Control – Manual/Mechanical, Cutting/Pruning/Selective Thin, Seed/Mulch/Plant/Fertilize & Lime, Mowing Ornamental Lawns, Irrigation System Operations & Maintenance, and Other Maintenance as Approved

Landscape maintenance operations are only conducted in a limited number of locations as described below and mapped in HATS. Maintenance activities in each identified location are planned based on a multi-year treatment strategy. Treatment decision are based on monitoring and the proven most effective combination of maintenance actions, to keep plantings (and lawns if present) looking healthy and trimmed throughout the year.

Total Units of Planned Treatment
- There are approximately 50 acres of formally landscaped roadside in this area.
- An additional 100 acres of formally landscaped roadside is maintained through agreement with the cities of Seattle and Mercer Island.

Locations of Planned Treatments
- Reference HATS layer – Landscape Maintenance.

Treatment Methods and Timing
415510
- No landscaped areas in this section.

415530
- I-405 – NE 8th interchange in downtown Bellevue – Mow one or two times per year and spot spray for weed control

415520
- I-90 – Landscaped right of way outside of limited access control areas in Seattle and on Mercer Island, including landscaping on structures and along bike/pedestrian paths are maintained by agreement with crews from the Cities. WSDOT reimburses City crews from this work.
- All other landscape areas along I-5 and I-90 in this section are maintained by WSDOT crews and described on the following tables:
<table>
<thead>
<tr>
<th>SEATTLE/MERCER ISLAND</th>
<th>S/F</th>
<th>ACRES</th>
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<tbody>
<tr>
<td>NUISANCE VEGETATION JERSEY BARRIER</td>
<td>511</td>
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<td>MP 2.0 TO 8.0</td>
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<td>1 64 Ozl. Ranger Pro, 16 Ozl. Insiste 90, 3 Ozl. Landmark XP, 3 Ozl. Opensight</td>
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<td>NOXIOUS WEEDS MP 789 - 7.9</td>
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<td>1518/ 64 Ozl. Garlan 3A, 16 Ozl. MSO Super Spread, 12 Ozl. Blazon-Blue</td>
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<td>MOW 2 TIMES HOMELESS</td>
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<td>12TH AVE/SB RAINIER EXIT L/S</td>
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<td>EB 77TH EXIT RIGHT SIDE</td>
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<td>Description</td>
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<td>Percentage</td>
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