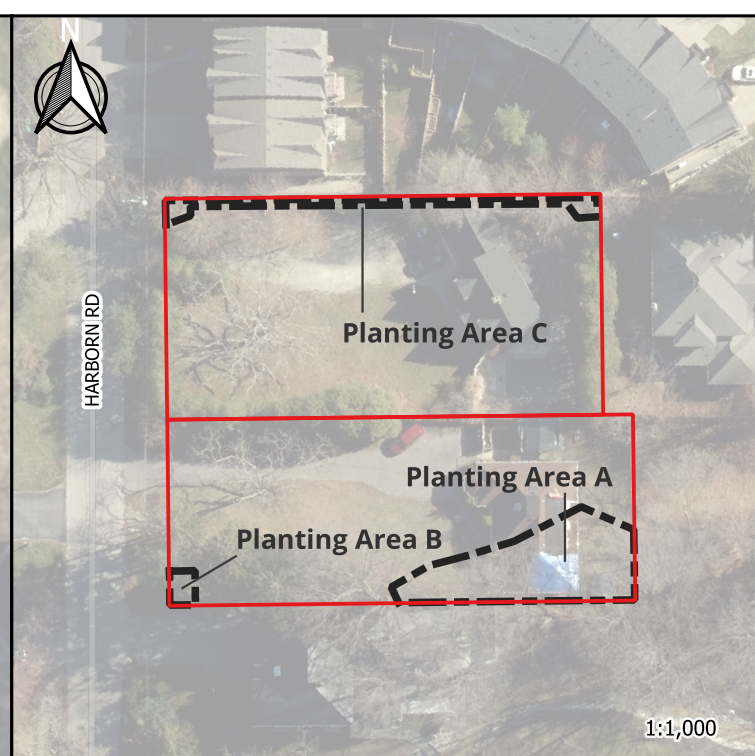




- Title: _____

Approved By: _____

Revision #	Date	Comments
1	May 12, 2026	Submitted for Review
2		
3		
4		
5		
6		

 Sumac ENVIRONMENTAL CONSULTING	Designed by: T.A. Date: 05/12/2026 Project: SEC 25-028
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Quantity	Common Name	Scientific Name
25 kg/ha	Black-eyed Susan	<i>Rudbeckia hirta</i>
	Canada Anemone	<i>Anemonestrum canadense</i>
	Canada Goldenrod	<i>Solidago canadensis</i>
	Common Evening-Primrose	<i>Oenothera biennis</i>
	Common Milkweed	<i>Asclepias syriaca</i>
	Early Goldenrod	<i>Solidago juncea</i>
	Grass-leaved Goldenrod	<i>Euthamia graminifolia</i>
	Grey-stemmed goldenrod	<i>Solidago nemoralis</i>
	Limestone Meadow Sedge	<i>Carex granularis</i>
	New England Aster	<i>Symphoricaricum novae-angliae</i>
Virginia Wildrye	<i>Elymus virginicus</i>	
White Vervain	<i>Verbena urticifolia</i>	
Wild Bergamot	<i>Monarda fistulosa</i>	
Nurse Crop		
25 kg/ha	Common Wheat	Triticum aestivum

Code	Common Name	Scientific Name	Form	Minimum Size	Quantity
Tc	Eastern Hemlock	<i>Tsuga canadensis</i>	Coniferous Tree	1.8 m Ht.	28
To	Eastern White Cedar	<i>Thuja occidentalis</i>	Coniferous Tree	1.8 m Ht.	33
Ps	Eastern White Pine	<i>Pinus strobus</i>	Coniferous Tree	1.8 m Ht.	8
Ta	Basswood	<i>Tilia americana</i>	Deciduous Tree	6 cm DBH	10
Ce1	Bitternut Hickory	<i>Carya cordiformis</i>	Deciduous Tree	6 cm DBH	6
As1	Black Maple	<i>Acer saccharum</i> sp. <i>Nigra</i>	Deciduous Tree	6 cm DBH	6
Qm	Bur Oak	<i>Quercus macrocarpa</i>	Deciduous Tree	6 cm DBH	3
Ar	Red Maple	<i>Acer rubrum</i>	Deciduous Tree	6 cm DBH	6
Co	Shagbark Hickory	<i>Carya ovata</i>	Deciduous Tree	6 cm DBH	5
Qa	White Oak	<i>Quercus alba</i>	Deciduous Tree	6 cm DBH	9
DL	Northern Bush-honeysuckle	<i>Diervilla lonicera</i>	Low Shrub	-	5
Rb	Smooth Rose	<i>Rosa blanda</i>	Low Shrub	-	6
Cp1	Sweet-fern	<i>Comptonia peregrina</i>	Low Shrub	-	5
Cc2	Beaked Hazelnut	<i>Corylus cornuta</i>	Tall Shrub	-	9
Al	Smooth Serviceberry	<i>Amelanchier laevis</i>	Tall Shrub	-	10

Central leader. (See crown observations detail).

Trunk caliper shall meet ANSI Z60 current edition for root ball size.

Root ball modified as required.

Round-topped soil berm 4" high x 18" wide around root ball surface shall be constructed around the root ball. (Berm shall begin at root ball periphery.

Existing soil.

Slope sides of loosened soil.

Bottom of root ball rests on existing or recompacted soil.

Top of root ball shall be flush with finished grade.

Prior to mulching, lightly tamp soil around the root ball in 8" lifts to brace tree. Do not over compact. When the planting hole has been backfilled, pour water around the root ball to settle the soil.

Loosened soil. Dig and turn the soil to reduce compaction in the area and depth shown.

4" layer of mulch.

No more than 1" of mulch on top of root ball. (See specifications for mulch).

Finished grade.

SECTION VIEW

3x widest dimension of root ball

Notes:

- 1- Trees shall be of quality prescribed in crown observations and root observations details and specifications.
- 2- See specifications for further requirements related to this detail.

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 UPAHS SOURCE TREE 110-USE

TREE w/ BERM (EXISTING SOIL NOT MODIFIED)

The diagram illustrates the cross-section of a shrub and its root system. The shrub is shown with a main trunk and several branches bearing leaves. The root system is depicted as a dense network of roots extending from the base of the trunk. The root ball is shown as a circular area of soil surrounding the roots, with a diameter of 36 inches. The root ball is placed on a layer of loose soil, which is on top of a finished grade. The finished grade is indicated by a dashed line. The root ball is surrounded by a 4-inch layer of mulch. The diagram also shows the root ball resting on an existing or recompacted soil layer. The diagram is labeled with various parts and dimensions, including 'Shrub', 'Rootball', '4" layer of mulch', 'Finished grade', 'Slope sides of loosened soil', 'Loosened soil', 'Dig and turn the soil to reduce the compaction to the area and depth shown', 'Root ball rests on existing or recompacted soil', '36" wide dimension of root ball', 'SECTION VIEW', '4" high x 6" wide round - topped soil berm above root ball surface shall be constructed around the root ball. Berm shall begin at root ball periphery', and 'Prior to mulching, lightly tamp soil around the root ball in 6" lifts to break up soil. Do not over compact. When a planting hole has been backfilled, no water around the root ball to settle in soil.'.

Shrub.

Rootball:

4" layer of mulch.
No more than 1" of mulch on top of root ball. (See specifications for mulch).

Finished grade.
Slope sides of loosened soil.
Loosened soil.
Dig and turn the soil to reduce the compaction to the area and depth shown.
Root ball rests on existing or recompacted soil.

36" wide dimension of root ball.

SECTION VIEW

4" high x 6" wide round - topped soil berm above root ball surface shall be constructed around the root ball. Berm shall begin at root ball periphery.

Prior to mulching, lightly tamp soil around the root ball in 6" lifts to break up soil. Do not over compact. When a planting hole has been backfilled, no water around the root ball to settle in soil.

Existing soil.

Notes:
1. Shrubs shall be of quality prescribed in the root observations detail and specifications.
2. See specifications for further requirements related to this detail.

SHRUB - UNMODIFIED SOIL

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1. Deciduous trees should be planted in the spring following thaw, or in the fall, during leaf-off until freeze up. Conifers shall be planted in the spring until 4 weeks after deciduous trees have opened their leaves or in the fall until freeze-up. Shrubs and groundcover should be planted in the fall.

2. Seedmix should be applied in the fall (September-November) at a rate of 25 kg/ha with a nurse crop of common wheat applied at a rate of 25 kg/ha. Seedmix should be irrigated as-needed during the first growing season and mowed to a height of 20 cm twice during the first growing season to discourage the establishment of invasive plant species. Seed mixture may be available for purchase through the Ontario Seed Company.

3. Planting locations are approximate and may require minor adjustments under the guidance of a qualified landscape professional, arborist and/or biologist to conform to the microtopography and obstacles.

4. At the discretion of the landscape professional a minimum of 30 cm of topsoil shall be applied prior to installation of plantings and seed dispersal.

5. Plant containers/wire-basket/burlap shall be removed prior to installation. Dead/dying plants that have been installed as part of the planting plan noted during the monitoring visits shall be replaced accordingly. All new plantings shall be monitored for a period of two (2) years during the active growing season.

6. Two (2) four-chambered bat houses should be installed on a single post at a height of 8 - 10 m in the specified location. The bat houses should be oriented with the broad side facing a south - southeast direction to maximize the amount of sun exposure. If necessary the adjacent cedar hedge row should be trimmed to ensure that it does not obscure the bat houses from sun exposure. Metal predator guards should be installed below the bat houses but above the tree line of the adjacent cedar hedge row.