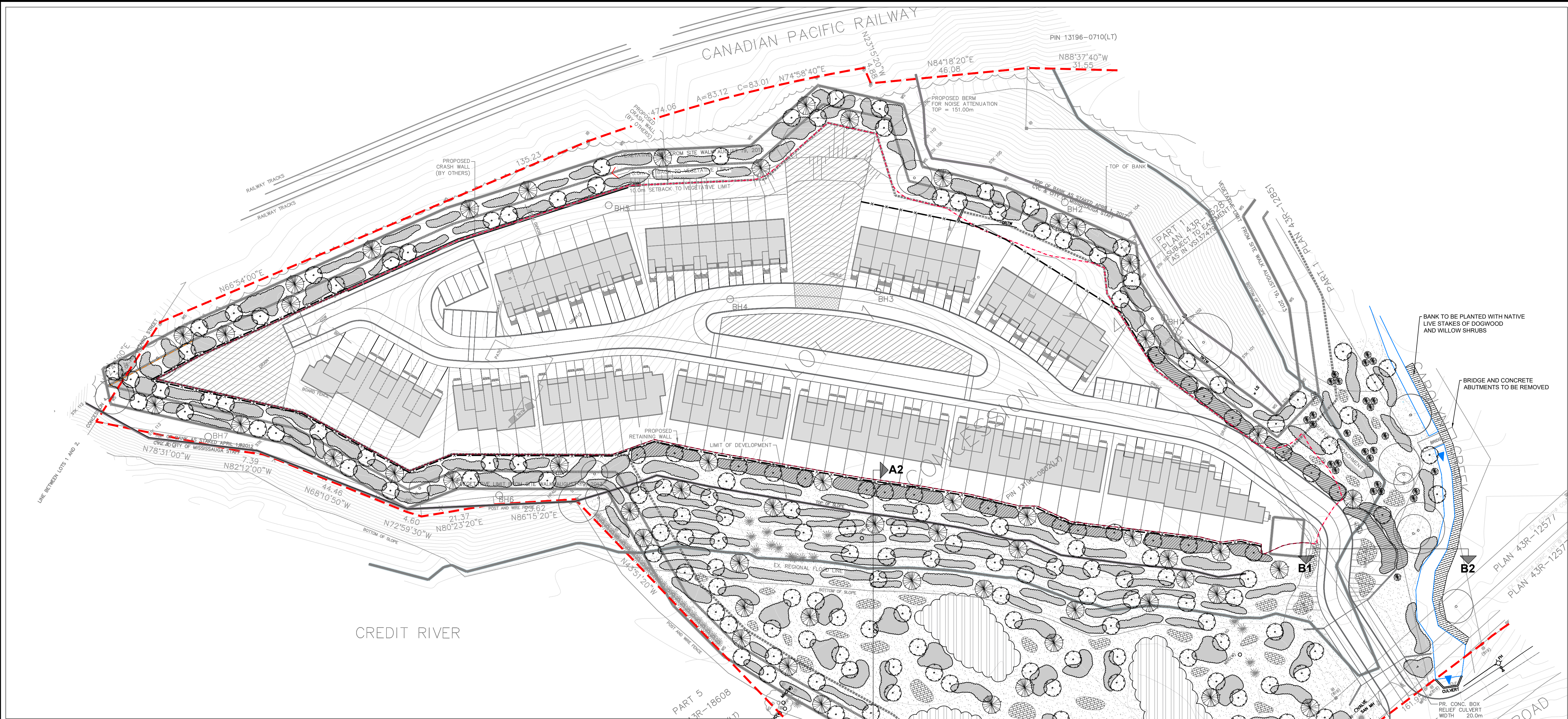




PROPOSED NATIVE TREES AND SHRUBS

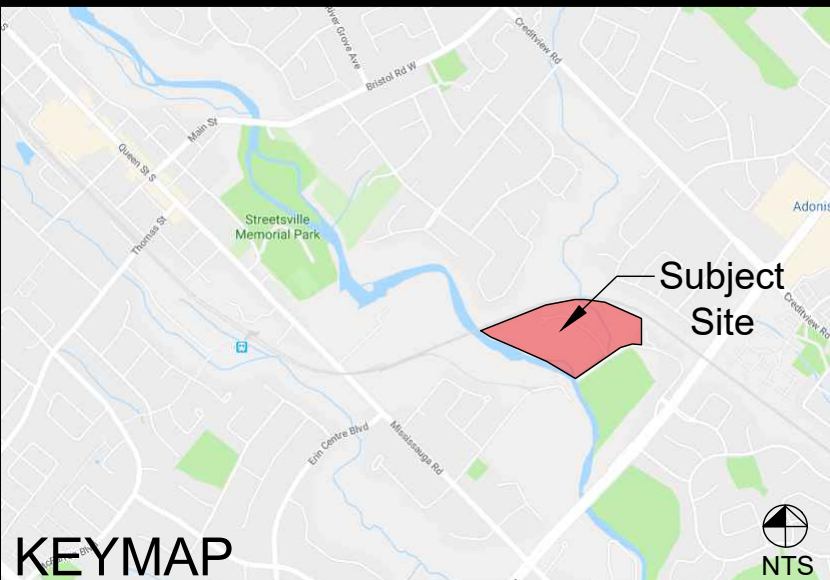
Total Trees = 270
Total Shrubs = 7375

KEY	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION	SPACING
Deciduous Trees					
Ar	<i>Acer x freemanii</i>	Freeman's Maple	100-125cm ht.	2-3 gal.	5.0 m O.C.
As	<i>Acer saccharum</i>	Sugar Maple	100-125cm ht.	2-3 gal.	5.0 m O.C.
Bp	<i>Betula papyrifera</i>	Paper Birch	100-125cm ht.	2-3 gal.	5.0 m O.C.
Co	<i>Carya ovata</i>	Shagbark Hickory	100-125cm ht.	2-3 gal.	5.0 m O.C.
Ov	<i>Ostrya virginiana</i>	Ironwood	200cm	10 gal.	5.0 m O.C.
Pd	<i>Populus deltoides</i> ssp. <i>deltoides</i>	Eastern Cottonwood	100-125cm ht.	2-3 gal.	5.0 m O.C.
Pt	<i>Populus tremuloides</i>	Trembling Aspen	100-125cm ht.	2-3 gal.	5.0 m O.C.
Ps	<i>Prunus serotina</i>	Black Cherry	175cm	10 gal.	5.0 m O.C.
Qa	<i>Quercus alba</i>	White Oak	100-125cm ht.	2-3 gal.	5.0 m O.C.
Qm	<i>Quercus macrocarpa</i>	Bur Oak	100-125cm ht.	2-3 gal.	5.0 m O.C.
Qr	<i>Quercus rubra</i>	Red Oak	100-125cm ht.	2-3 gal.	5.0 m O.C.
Ta	<i>Tilia americana</i>	Basswood	100-125cm ht.	2-3 gal.	5.0 m O.C.
Ua	<i>Ulmus americana</i>	American Elm	250cm	10 gal.	5.0 m O.C.
Coniferous Trees					
Pg	<i>Picea glauca</i>	White Spruce	100cm ht.	2-3 gal.	5.0 m O.C.
Ps	<i>Pinus strobus</i>	White Pine	100cm ht.	2-3 gal.	5.0 m O.C.
To	<i>Thuja occidentalis</i>	Eastern White Cedar	80-100cm ht.	2-3 gal.	5.0 m O.C.
Shrubs					
Al	<i>Amelanchier laevis</i>	Smooth Serviceberry	45-75cm ht.	2 gal.	1.0m O.C.
Ca	<i>Cornus alternifolia</i>	Pagoda Dogwood	45-75cm ht.	2 gal.	1.0m O.C.
Cr	<i>Cornus racemosa</i>	Grey Dogwood	45-75cm ht.	1 gal.	1.0m O.C.
Cs	<i>Cornus stolonifera</i>	Red-Osier Dogwood	60-100cm ht.	Uvestake	3 per/m ²
DI	<i>Diervilla lonicera</i>	Bush Honeysuckle	45-75cm ht.	1 gal.	1.0m O.C.
Hv	<i>Hamamelis virginiana</i>	Witch Hazel	45-75cm ht.	2 gal.	1.0m O.C.
Pv	<i>Prunus virginiana</i>	Chokecherry	45-75cm ht.	2 gal.	1.0m O.C.
Rt	<i>Rhus typhina</i>	Staghorn Sumac	45-75cm ht.	1 gal.	1.0m O.C.
Rb	<i>Rosa blanda</i>	Smooth Wild Rose	45-75cm ht.	1 gal.	1.0m O.C.
Ro	<i>Rubus occidentalis</i>	Black Raspberry	45-75cm ht.	1 gal.	1.0m O.C.
Ru	<i>Rubus odoratus</i>	Purple-Flowering Raspberry	45-75cm ht.	1 gal.	1.0m O.C.
Sb	<i>Salix bebbiana</i>	Bebb's Willow	60-100cm ht.	Uvestake	3 per/m ²
Sr	<i>Sambucus racemosa</i>	Red-Berried Elder	45-75cm ht.	1 gal.	1.0m O.C.
VI	<i>Viburnum lentago</i>	Nannyberry	45-75cm ht.	1 gal.	1.0m O.C.

PROPOSED NATIVE GRASSES AND FORB PLANTINGS

Area=570m²

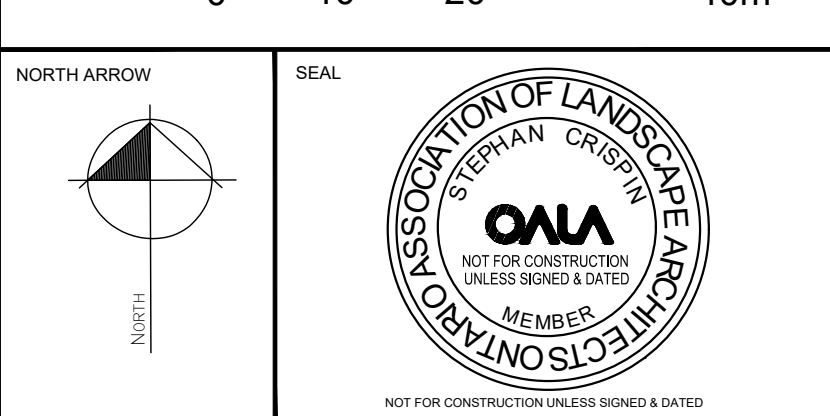
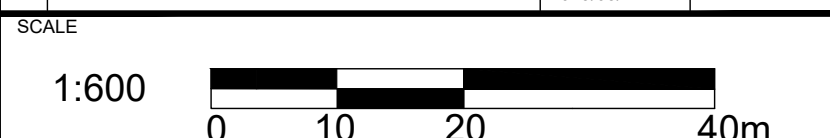
QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION	SPACING
Grasses					
500	<i>Andropogon gerardii</i>	Big Bluestem	4in	Potted	10per 1m ²
500	<i>Danthonia spicata</i>	Poverty Oat Grass	4in	Potted	10per 1m ²
300	<i>Elymus canadensis</i>	Canada Wild Rye	4in	Potted	10per 1m ²
500	<i>Elymus hystrix</i>	Bottlebrush Grass	4in	Potted	10per 1m ²
200	<i>Elymus virginicus</i> var. <i>virginicus</i>	Virginia Wild Rye	4in	Potted	10per 1m ²
300	<i>Panicum capillare</i>	Old Witch Panic Grass	4in	Potted	10per 1m ²
500	<i>Schizachyrium scoparium</i>	Little Blue Stem	4in	Potted	10per 1m ²
300	<i>Sporobolus cryptandrus</i>	Sand Dropseed	4in	Potted	10per 1m ²
Subtotal: 3100					
Wildflowers					
200	<i>Anemone canadensis</i>	Canada Anemone	4in	Potted	10per 1m ²
200	<i>Anemone virginiana</i> var. <i>virginiana</i>	Wood Anemone	4in	Potted	10per 1m ²
150	<i>Antennaria neglecta</i>	Field Pussy-toes	4in	Potted	10per 1m ²
150	<i>Apocynum androsaemifolium</i>	Spreading Dogbane	4in	Potted	10per 1m ²
50	<i>Asclepias syriaca</i>	Common Milkweed	4in	Potted	10per 1m ²
150	<i>Eupatorium rugosum</i>	White Snakeroot	4in	Potted	10per 1m ²
200	<i>Helianthus divaricatus</i>	Woodland Sunflower	4in	Potted	10per 1m ²
200	<i>Mondarda fistulosa</i>	Wild Bergamont	4in	Potted	10per 1m ²
200	<i>Penstemon hirsutus</i>	Hairy Beardtounge	4in	Potted	10per 1m ²
100	<i>Polygonatum pubescens</i>	Downy Solomon's Seal	4in	Potted	10per 1m ²
200	<i>Rudbeckia hirta</i>	Brown Eyed Susan	4in	Potted	10per 1m ²
200	<i>Solidago juncea</i>	Early Goldenrod	4in	Potted	10per 1m ²
150	<i>Solidago nemoralis</i> ssp. <i>nemoralis</i>	Gray Goldenrod	4in	Potted	10per 1m ²
150	<i>Symphoricarum cordifolium</i>	Heart-Leaf Aster	4in	Potted	10per 1m ²
150	<i>Symphoricarum ericoides</i> var. <i>ericoides</i>	White Heath Aster	4in	Potted	10per 1m ²
150	<i>Symphoricarum novae-angliae</i>	New England Aster	4in	Potted	10per 1m ²
Subtotal: 2600					



- #### LEGEND
- Property Boundary
 - Development Limit
 - Existing Watercourse
 - Existing Vegetation Groups
 - Existing Deciduous Tree
 - Existing Coniferous Tree
 - Proposed Deciduous Tree
 - Proposed Coniferous Tree
 - Proposed Shrub Groups (6675 m²)
 - Proposed Nodal Plantings of Native Grass and Forbs (570 m²)
 - Proposed Re-Naturalization Areas (~ 10,000 m²)
 - Proposed Live Staking (230 m²)
 - Proposed Crash Wall
 - Proposed 1.5 m Chain Link Fence
Note: Fence to be located entirely on municipal property, 0.15 m inside the greenbelt
 - Proposed Living Fence

Notes: Scale shown is for an 36" x 24" page.
For illustrative purposes. Do not scale

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PROJECT

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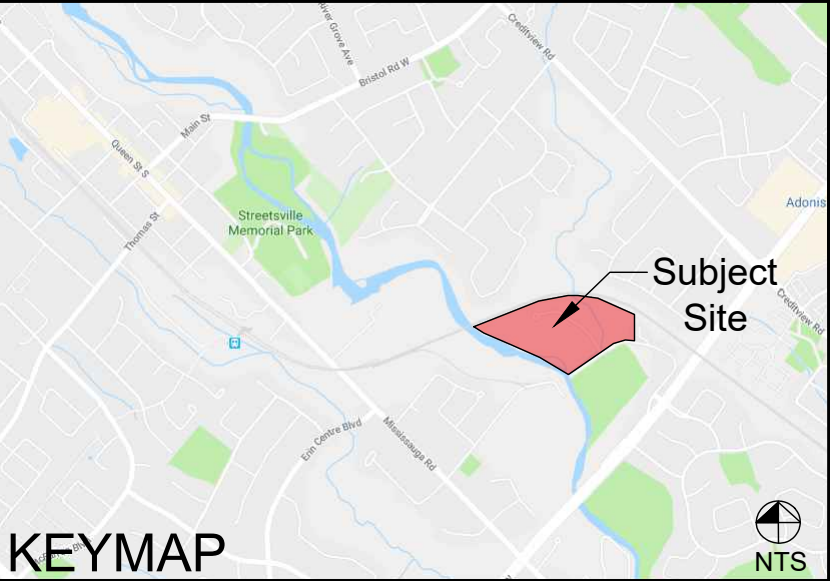
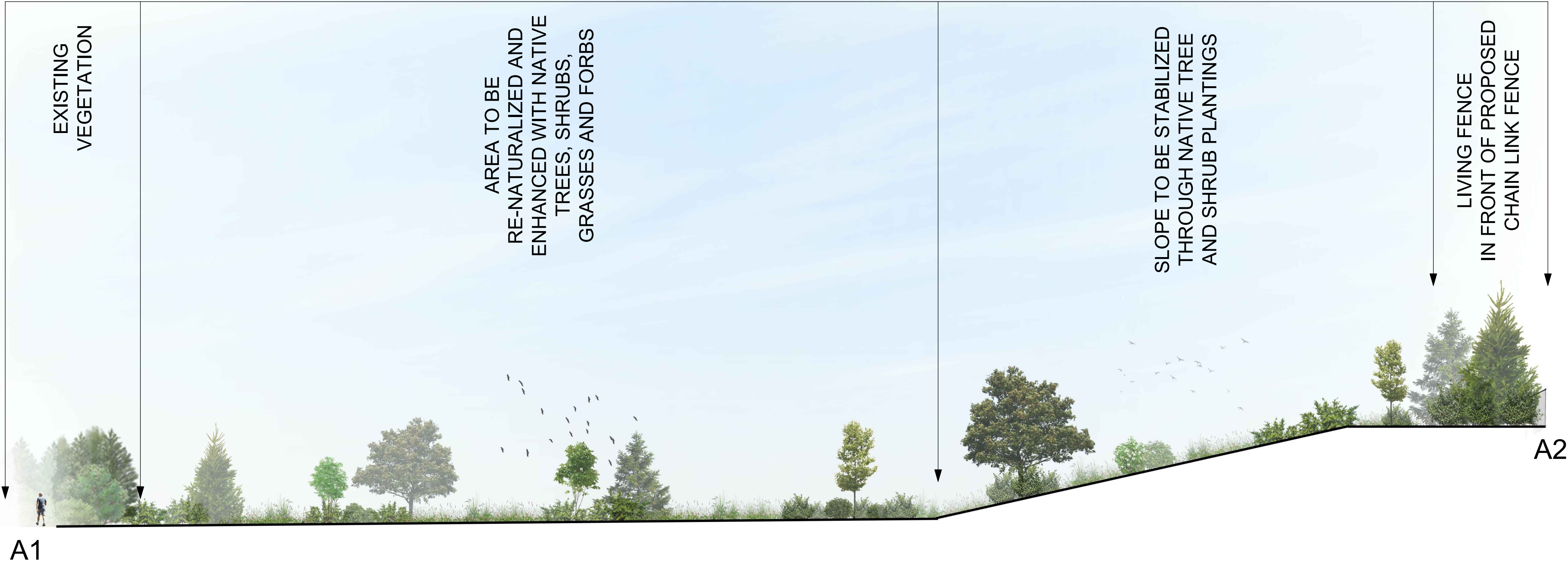
SHEET TITLE

LANDSCAPE
RESTORATION
CONCEPT PLAN

DESIGN BY:	---	PROJECT Nº:	214250.2
DRAWN BY:	MB	FIGURE Nº:	
CHECKED BY:	SC		
DATE:	25 March 2019		

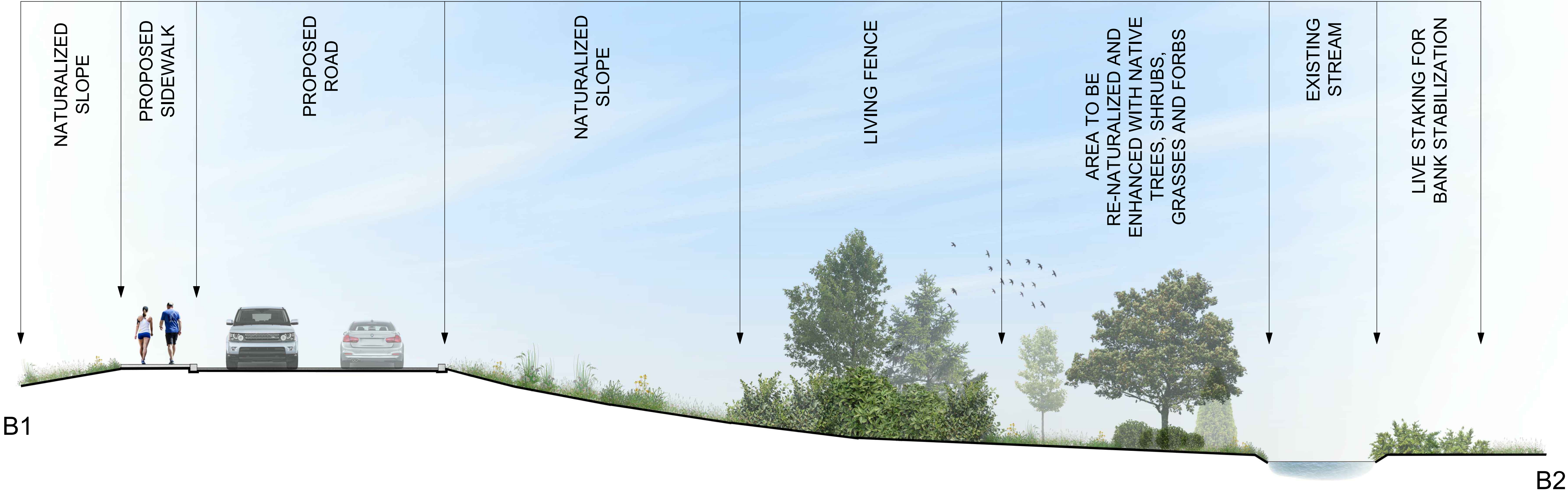
L-1

SECTION A1-A2
SCALE: 1:150



LEGEND

SECTION B1-B2
SCALE: 1:75



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SCALE

AS NOTED

NORTH ARROW

SEAL

ASSOCIATION OF LANDSCAPE ARCHITECTS
STEPHAN CRISPIN
OAA
NOT FOR CONSTRUCTION
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MEMBER



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MISSISSAUGA, ON

SHEET TITLE

LANDSCAPE CONCEPT
SECTIONS

DESIGN BY:	..	PROJECT №:	214250.2
DRAWN BY:	MB	FIGURE №:	L-2
CHECKED BY:	SC		
DATE:	25 March 2019		

GENERAL NOTES :

- This drawing is to be read in conjunction with the written specifications for the project and all other drawings.
- Any ambiguity in this drawing or accompanying details is to be reported to the project Ecologist or Landscape Architect from Beacon Environmental. Contractor is not to proceed in uncertainty.
- Limits or work to be clearly understood by the contractor prior to any work taking place on site.
- The Contractor shall visit the site to confirm all site conditions prior to submitting a bid. Report all discrepancies in writing to the Contract Administrator/Project Landscape Architect.
- The Contractor must notify the Project Landscape Architect a minimum of 5 (five) days prior to the commencement of any construction work.
- Construction access shall be arranged with the General Contractor and or Owner's representative for the site.
- Verify locations of pertinent site improvements under this contract. If any part of this plan cannot be followed due to site conditions contact owner's representative for instruction prior to commencing work.
- Contact local underground utility service companies to obtain utility locates and identification prior to commencing work.
- Perform excavation in the vicinity of underground utilities with care and by hand if necessary. The Contractor bears full responsibility for this work and disruption of damaged utilities shall be repaired at no expense to the Owner.
- Drawings may be scaled for layout measurement but dimensions and elevations shown are subject to verification on site.
- The Contractor shall maintain all areas until Owner's acceptance of the project in accordance with the specifications.
- It is the responsibility of the Contractor and/ or Owner to ensure that the drawings with the latest revisions are used for construction.
- All existing trees which are to remain shall be fully protected with hoarding as specified of this plan and Tree Protection Hoarding Detail.
- The entire area where Grasses and Forbs are being planted shall be cleared of turf prior to installing plants.
- All planting material to meet horticultural standards of the Canadian Nursery Trades Association Guide Specification for Nursery Stock. All plant material to be No. 1 Grade and to the approval of the Landscape Architect.
- No plant substitutions will be permitted without the written approval of the project Ecologist and or Landscape Architect. Plant identification tags for all plant material are to remain on material until inspected.
- All damaged material will be rejected. Trees without central leaders, with trunk wounds, or damaged major limbs will be rejected. Shrubs with damaged branches or insufficient root mass will be rejected.
- All material that can not be planted within 48 hours of delivery shall be healed in on site and be kept properly protected from desiccation by wind or sun.
- The Planting Design presented will require field - fitting based on site condition. Spacing between the woody plants will vary and will be form-fitted on site and will vary based on site conditions and direction from the project Ecologist and or Landscape Architect.
- The Contractor shall stake out the location of tree and shrub planting modules for field review with the project Ecologist and or Landscape Architect prior to commencing planting works.
- The selection and distribution of species across the site shall be reviewed and approved on site by the project Ecologist or Landscape Architect at the time of planting operation.
- The Contractor shall relocate any trees or shrubs on the property as directed by the Project Landscape Architect.
- Any dead or damaged branches are to be pruned according to horticultural standards and timing appropriate to each species.
- All plant materials shall be planted in naturalistic groupings and in accordance with the layout and planting details and written specifications.
- Staking of tree whips shall be as per detail provided that alternative methods may be acceptable with the approval of the Project Landscape Architect prior to installation.
- All large caliper trees shall have an earth saucer at the base with a diameter as large as the excavated area to retain water.

PLANTING NOTES :

- All plants are to be installed through existing turf. Turf shall be cut and removed in locations where plantings are occurring and mulch shall be applied at the base of plantings. Turf shall be allowed to naturalize outside of planting areas.

WATERING REQUIREMENTS:

- All material delivered to site shall be either watered immediately or within 24 hours as warranted by the moisture content of the root balls/containers.
- All material shall be watered at the time of planting.
- All material shall be watered regularly (weekly basis if conditions require) during the first two years of establishment. More frequent watering will be required during periods of drought.
- Tree and shrubs shall be watered deeply rather than frequently.
- Trees and shrubs shall be watered well in the Fall to prevent root death over winter.

MULCHING REQUIREMENTS:

- All trees and shrubs are to be planted in continuous mulched beds, or as field directed by the Project Landscape Architect.
- Mulch shall be topped up to ensure the specified minimum depth is maintained on all planting beds.
- Continuous mulch bed around all tree and shrub plantings shall consist of a depth of 3" (75mm) of:
-Shredded Pine/Cedar Bark
-Composted Cedar or Wood Shavings
- Shrub pit, saucer and planting beds shall be soaked with water & mulched immediately following planting. Top dress area immediately over root mass (saucer area) with bone meal or compost.

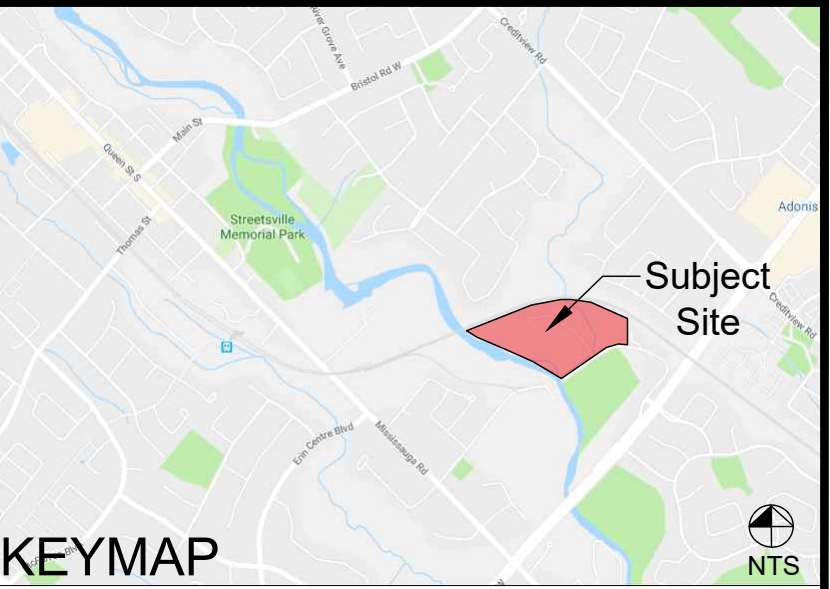
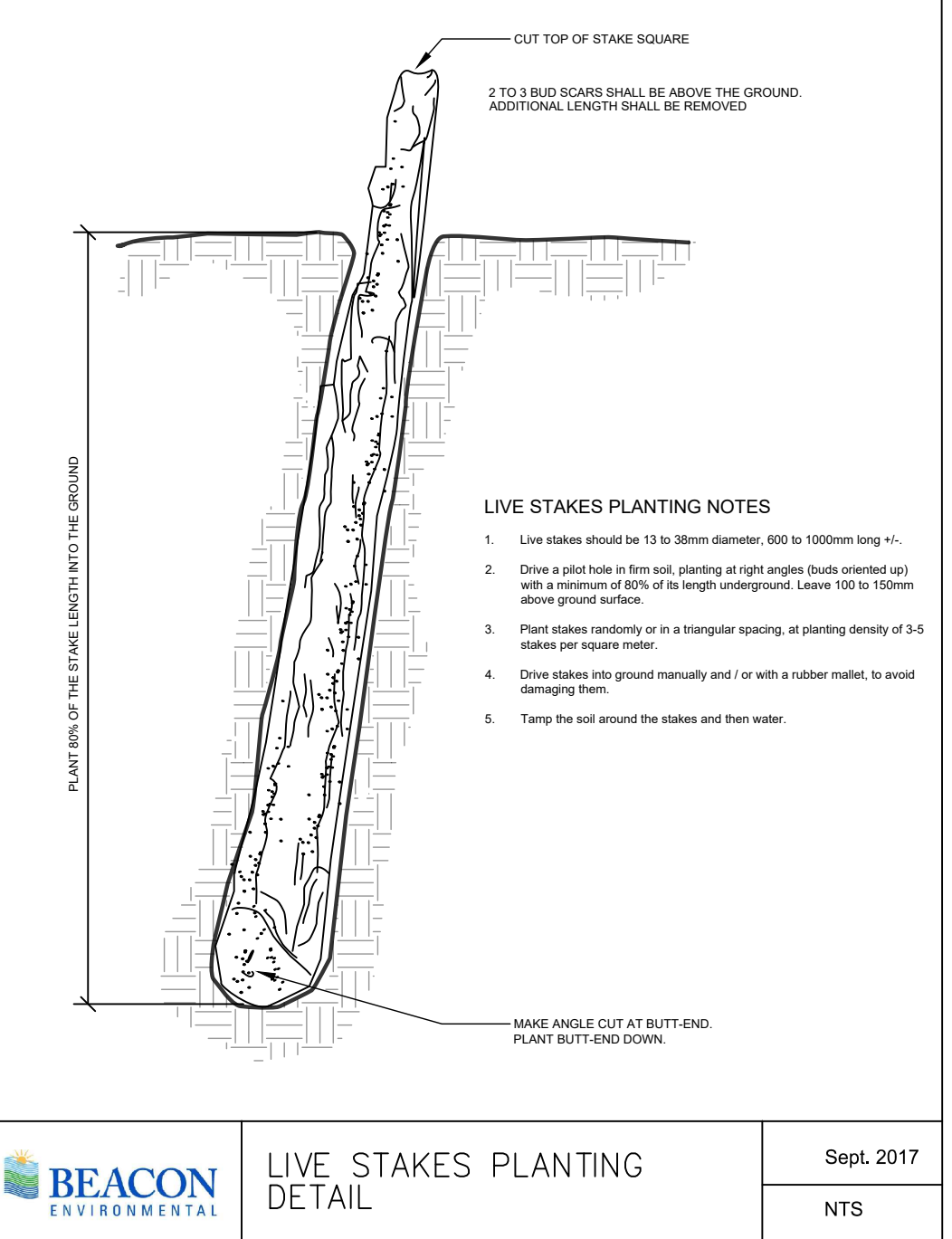
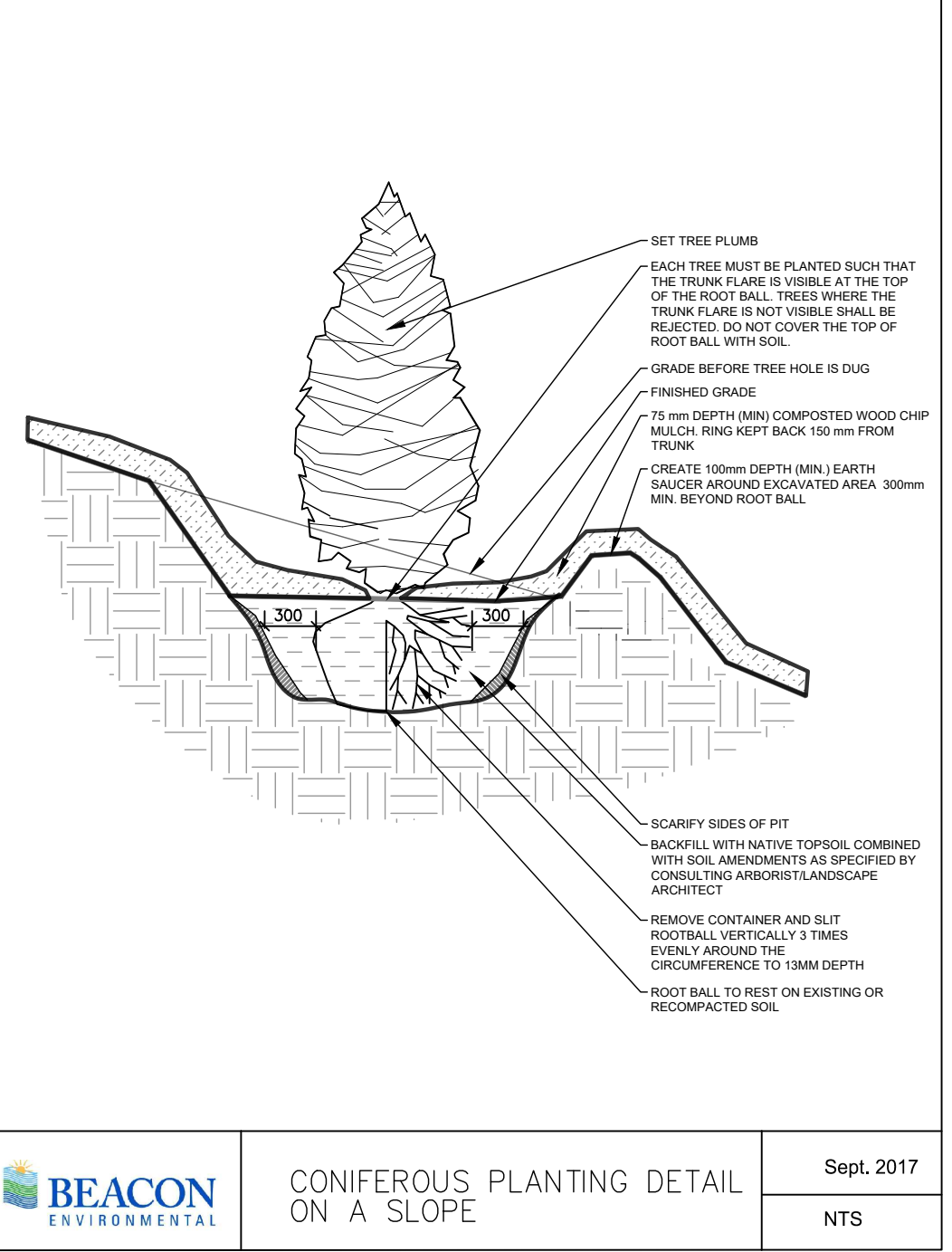
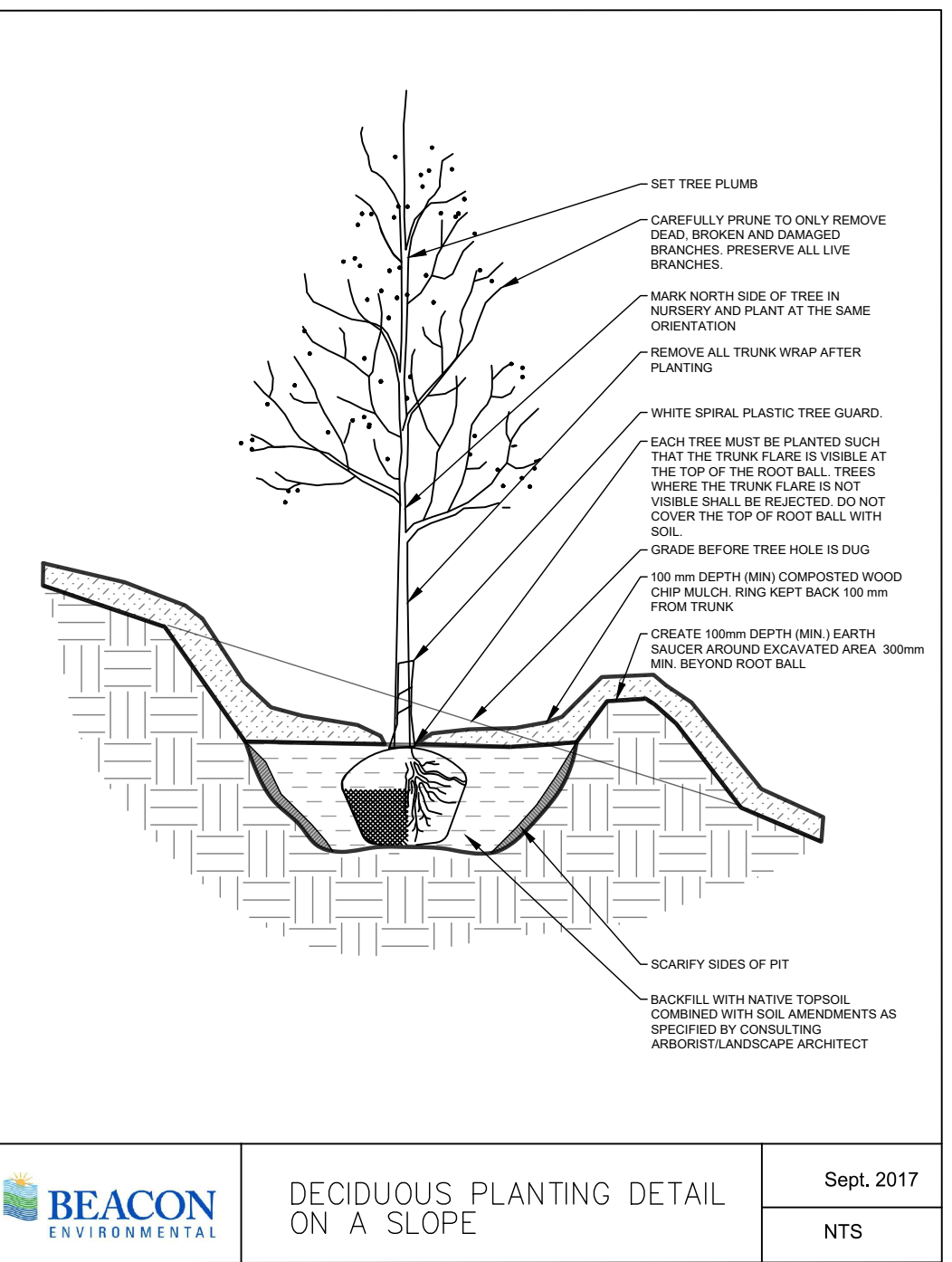
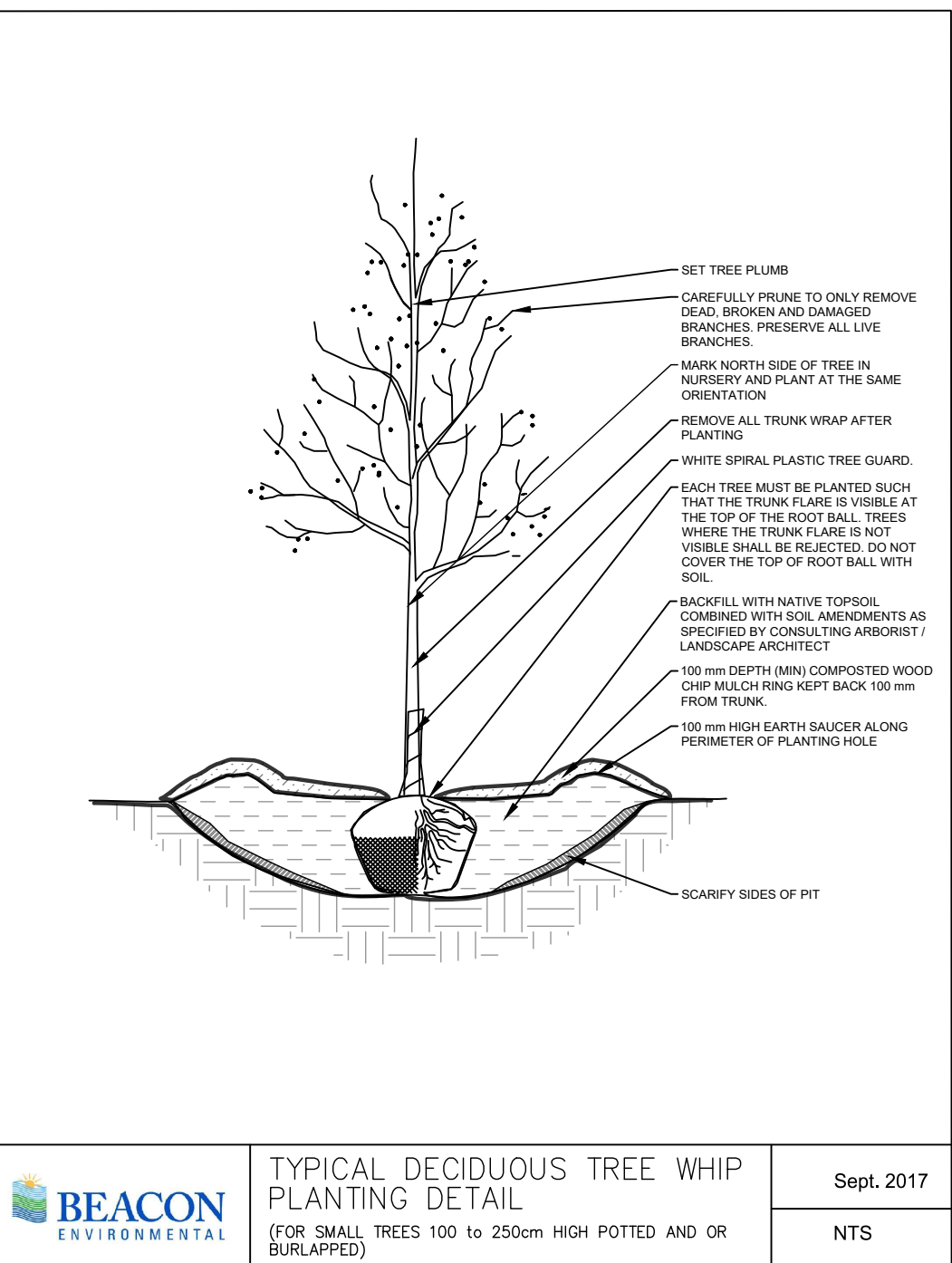
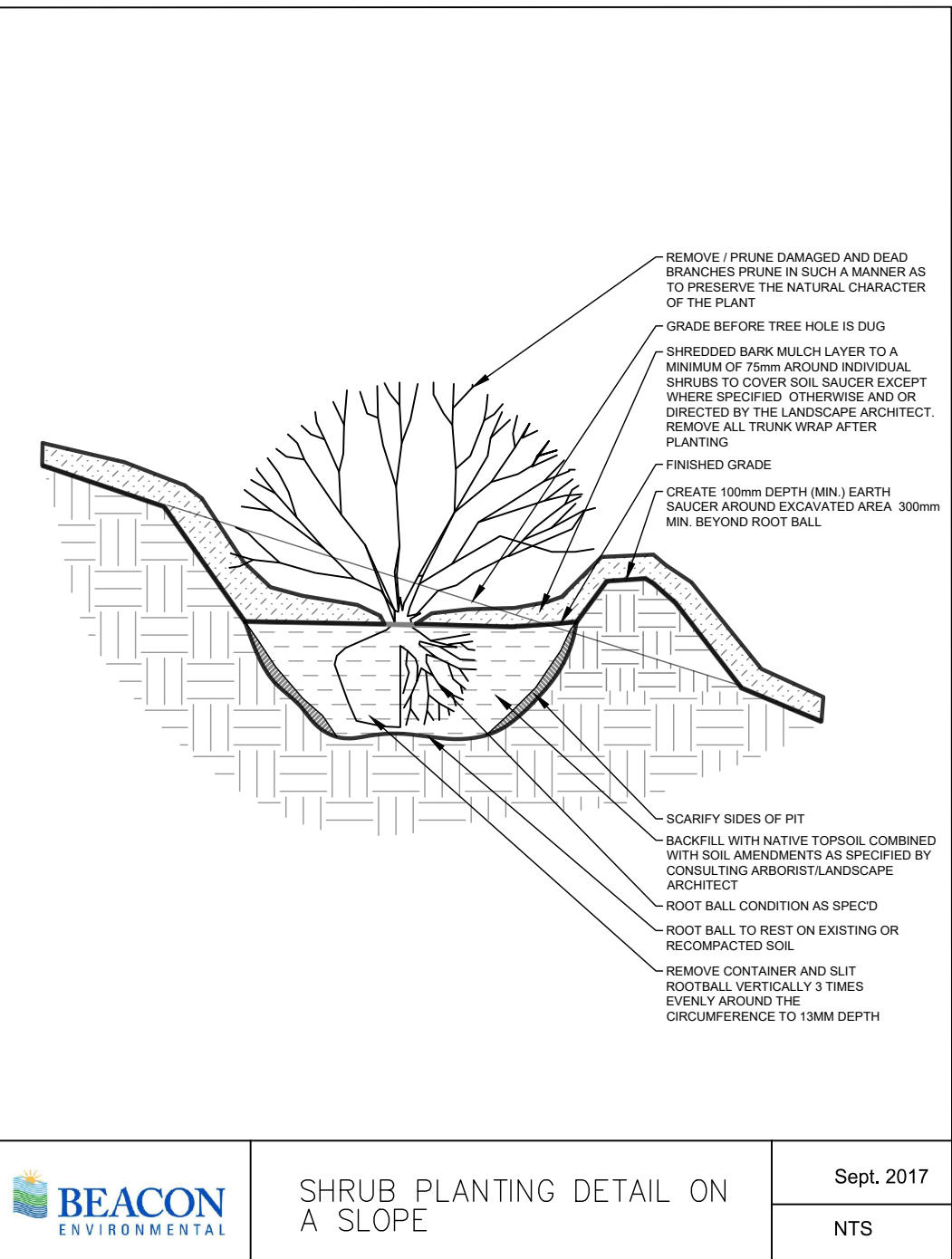
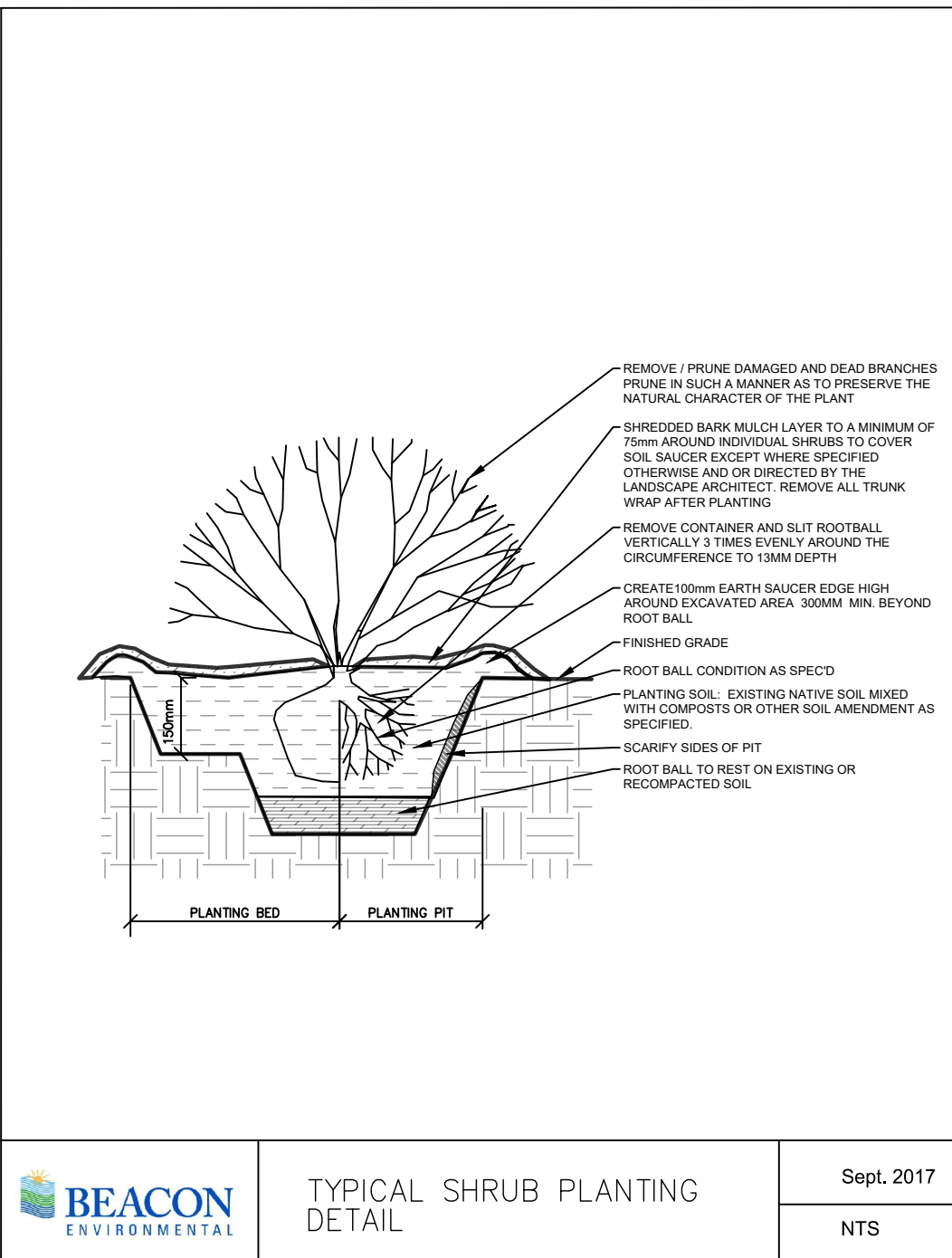
WARRANTY PERIOD AND MAINTENANCE ACTIVITIES

- All workmanship, and plant materials to be guaranteed for a period of two years following the date of initial acceptance of the project by the Project Landscape Architect.
- It is the responsibility of the Contractor to maintain plant materials in good condition from the date of initial acceptance of the project by the Project Landscape Architect to the end of the 2 years warranty period.
- General maintenance requirements for trees, shrubs and perennials shall be performed a minimum of once per month during the growing season and shall include, but not limited to the following activities:
-Watering at time of planting
-Watering regularly on a weekly basis during the first year of establishment depending on weather conditions.
-Pruning
-Mulching
-Replacement

- The Contractor shall be responsible for the replacement of unacceptable or dead material, straightening trees that lean, and any other procedure consistent with good horticultural practice necessary to ensure normal, healthy growing condition of plant material.
- During the warranty period the contractor is responsible for maintaining a 75mm (3") layer of mulch under all plantings
- Prior to acceptance of the end of the warranty period all planting beds are to be supplemented, where necessary, with additional mulch in order that the specified minimum thickness described for each of the planting areas is maintained.
- The Project Landscape Architect reserves the right to extend contractor's warranty responsibilities for an additional year if, at the end of initial warranty period, leaf development and growth is not sufficient to ensure future survival.

RODENT PROTECTION

- The Contractor shall be responsible for the protection of all trees and shrubs from rodent injury for the duration of the guarantee period.
- Install an approved wrap-around type plastic tree guard on all deciduous and coniferous for rodent protection. Refer to planting detail and specification.
- All shrubs and coniferous trees shall have an application of "skoot" or approved equivalent rodent formula, to be applied at the end of October. Follow manufacturer's directions for application.



LEGEND

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SCALE

NORTH ARROW

SEAL

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MEMBER



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PROJECT

1725 BARBERTOWN RD.
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SHEET TITLE			
NOTES AND DETAILS			
DESIGN BY:	..	PROJECT Nº:	214250.2
DRAWN BY:	MB	FIGURE Nº:	
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