

December 17, 2024

BEL 223212

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via email tanjot.bal@caledon.ca

Re: Addendum to the Caledon Station Secondary Plan Final Community-Wide Comprehensive Environmental Impact Study and Environmental Management Plan (21T-24006C)

In response to a comment from the Town of Caledon, dated September 18, 2024, on the application for draft plan of subdivision 21T-24006C (“subject property”), Beacon has prepared this addendum to the Final Community-Wide Comprehensive Environmental Impact Study and Environmental Management Plan (“CEISMP”), dated October 11, 2024.

Context

The Final Community-Wide CEISMP was submitted concurrent with draft plans of subdivision 21T-22001 and 21T-22002 in October, 2024. The CEISMP describes the Natural Heritage System (“NHS”) blocks throughout the Caledon Station Secondary Plan area. At the time of submittal, all comments on 21T-22001 and 21T-22002 were addressed.

Secondary Plan policy 7.16.4.6.2 describes the requirements for CEISMP submission as follows:

“Prior to or concurrent with submission of the first plan of subdivision or site plan application in the Plan Area, the Plan Area landowners will prepare and submit to the Town the Final Community-Wide CEISMP for the Plan Area to be implemented at the site level, without amendment to this Plan. Minor refinements to the details and recommendations contained in the Final Community-Wide CEISMP can be supported through addendums to the Final Community-Wide CEISMP, specific to the applicable draft plan of subdivision or site plan application.”

In preparation for re-submission of 21T-24006C, it was noted that one outstanding comment pertained only to the subject property that was not relevant to 21T-22001 and 21T-22002. The comment requested the CEISMP to “include the recommendation on planting density and species, for the Natural Heritage System blocks, for Town’s review, comment and approval.” As such, this CEISMP addendum has been prepared to address this comment, in accordance with Secondary Plan policy 7.16.4.6.2.

The subject property contains two NHS blocks (Blocks 50 and 51) that will be connected by a culvert and wildlife passage, as described in the Final CEISMP as the Greenway Corridor. The intent of the

Greenway Corridor is to provide conveyance and storage for the regional flood, wetland compensation and wildlife habitat. A preliminary plan for this corridor was provided in Appendix L (Figures G-1 and D-1) of the Final CEISMP. This previously approved plan is reproduced in **Attachment 1** of this addendum to assist review.

Landscape Requirements

The Greenway Corridor includes two distinct areas with separate planting requirements – the proposed wetland, and the Greenway Corridor side slopes, as illustrated in **Attachment 1**. The specifics regarding stock type, and quantities, along with seeding rates will be provided in detailed design. Planting spacing and species provided below may also be revised during detailed design.

Wetlands

The wetland will be seeded with native seed and planted with herbaceous plugs, shrubs, and trees.

The proposed species to include in the seed mix in the wetland is included below in **Table 1**. The seed mix will be applied at a density of 25 kilograms (kg) per hectare (ha).

Table 1. Wetland Seed Mix

| Scientific Name | Common Name |
|---|----------------------|
| Forbs | |
| <i>Asclepias incarnata</i> | Swamp Milkweed |
| <i>Doellingeria umbellata</i> | Flat-topped Aster |
| <i>Eupatorium maculatum</i> | Spotted Joe-Pye Weed |
| <i>Eupatorium perforatum</i> | Boneset |
| <i>Lobelia cardinalis</i> | Cardinal Flower |
| <i>Lobelia siphilitica</i> | Great Blue Lobelia |
| <i>Rudbeckia laciniata</i> | Tall Coneflower |
| <i>Solidago canadensis</i> | Canada Goldenrod |
| <i>Symphiotrichum puniceum</i> | Swamp Aster |
| <i>Verbena hastata</i> | Blue Vervain |
| Grasses & Sedges | |
| <i>Calamagrostis canadensis</i> | Canada Blue Joint |
| <i>Carex vulpinoidea</i> | Fox Sedge |
| <i>Elymus virginicus</i> | Virginia Wild Rye |
| <i>Elymus riparius</i> | Riverbank Wildrye |
| <i>Glyceria striata</i> | Fowl Manna Grass |
| <i>Panicum virgatum</i> | Switch Grass |
| <i>Poa palustris</i> | Fowl Bluegrass |
| <i>Sorghastrum nutans</i> | Indian grass |
| Nurse Crop Seed Mix (Spring Seeding) | |
| <i>Avena sativa</i> | Oats |
| <i>Lolium multiflorum</i> | Annual Ryegrass |

| Scientific Name | Common Name |
|---|--------------|
| <i>Panicum miliaceum</i> | White Millet |
| Nurse Crop Seed Mix (Fall Seeding) | |
| <i>Triticum aestivum</i> | Winter Wheat |

The proposed species for herbaceous plug plantings in the wetland is included in **Table 2**. Herbaceous plugs will generally be planted at a density of 6 units per m², except for within tree or shrub plantings nodes.

Table 2: Wetland Herbaceous Plantings

| Scientific Name | Common Name |
|---|----------------------|
| <i>Acorus americanus</i> | American Sweet-flag |
| <i>Asclepias incarnata</i> | Swamp Milkweed |
| <i>Carex aquatilis</i> | Water Sedge |
| <i>Elymus riparius</i> | Virginia Wild Rye |
| <i>Eutrochium maculatum</i> var. <i>maculatum</i> | Spotted Joe Pye Weed |
| <i>Glyceria grandis</i> | Reed Manna Grass |
| <i>Lobelia siphilitica</i> | Great Blue lobelia |
| <i>Sagittaria latifolia</i> | Broadleaf Arrowhead |
| <i>Schoenoplectus tabarnaemontani</i> | Softstem Bulrush |
| <i>Sparganium eurycarpum</i> | Great Bur-reed |
| <i>Symphiotrichum puniceum</i> | Swamp Aster |
| <i>Verbena hastata</i> | Blue Vervain |

The proposed species for trees and shrubs is included in **Table 3**. Plantings will be designed to target an overall coverage of trees or shrubs not exceeding 15%, respectively, so as to create a marsh rather than a swamp. Tree and shrub plantings will be concentrated in designated areas (to be specified during detailed design), to create a structurally complex habitat with localised thickets and tree clusters. Within these clusters, planting density will be one plant per 5 m².

Table 3: Wetland Tree and Shrub Nodal Plantings

| Scientific Name | Common Name |
|----------------------------|---------------------|
| Shrubs | |
| <i>Cornus sericea</i> | Red-osier Dogwood |
| <i>Sambucus canadensis</i> | Common Elderberry |
| <i>Salix discolor</i> | Pussy Willow |
| <i>Salix eriocephala</i> | Heart-leaved Willow |
| <i>Salix interior</i> | Sandbar Willow |
| <i>Spiraea alba</i> | White Meadowsweet |
| Trees | |
| <i>Acer rubrum</i> | Red Maple |

| Scientific Name | Common Name |
|----------------------------|---------------------|
| <i>Acer saccharinum</i> | Silver Maple |
| <i>Populus balsamifera</i> | Balsam Poplar |
| <i>Populus tremuloides</i> | Trembling Aspen |
| <i>Salix amygdaloides</i> | Peachleaf Willow |
| <i>Thuja occidentalis</i> | Eastern White Cedar |

Plantings along the channel will consist of Dogwood and Willow shrubs, planted at a higher density (typically one per m²). Details of species and planting density will be finalised during detailed design.

Greenway Corridor Side Slopes

The slopes will be seeded with native seed and planted with trees and shrubs.

A proposed seed mix for the Greenway Corridor side slopes is included below in **Table 4**. The seed mix will be planted at a density of 25 kg/ha.

Table 4: Seed Mix for Corridor Side Slopes

| Scientific Name | Common Name |
|-------------------------------------|--------------------------|
| Forbs | |
| <i>Asclepias tuberosa</i> | Butterfly Milkweed |
| <i>Asclepias syriaca</i> | Common Milkweed |
| <i>Desmodium canadense</i> | Showy Tick-trefoil |
| <i>Eupatorium maculatum</i> | Spotted Joe-Pye-Weed |
| <i>Lespedeza capitata</i> | Round-Headed Bush-Clover |
| <i>Monarda fistulosa</i> | Wild Bergamot |
| <i>Oenothera biennis</i> | Common Evening Primrose |
| <i>Ritibida pinnata</i> | Gray-headed Coneflower |
| <i>Rudbeckia hirta</i> | Brown-eyed Coneflower |
| <i>Solidago canadensis</i> | Canada Goldenrod |
| <i>Solidago juncea</i> | Early Goldenrod |
| <i>Symphyotrichum pilosum</i> | Heath Aster |
| <i>Symphyotrichum novae-angliae</i> | New England Aster |
| <i>Verbena stricta</i> | Hoary Vervain |
| Grasses & Sedges | |
| <i>Andropogon gerardii</i> | Big Bluestem |
| <i>Elymus canadensis</i> | Canada Wild Rye |
| <i>Elymus virginicus</i> | Virginia Wild Rye |
| <i>Panicum virgatum</i> | Switch Grass |
| <i>Schizachyrium scoparium</i> | Little Bluestem |
| <i>Sorghastrum nutans</i> | Indian Grass |
| <i>Andropogon gerardii</i> | Big Bluestem |

| Scientific Name | Common Name |
|---|-----------------|
| <i>Carex crinita</i> | Fringed Sedge |
| Nurse Crop Seed Mix (if planted in spring) | |
| <i>Avena sativa</i> | Oats |
| <i>Lolium multiflorum</i> | Annual Ryegrass |
| <i>Panicum miliaceum</i> | White Millet |
| Nurse Crop Seed Mix (if planted in fall) | |
| <i>Triticum aestivum</i> | Winter Wheat |

The proposed species list for trees and shrubs is included in **Table 5**. As in the wetland, plantings will be designed to target an overall coverage of trees and shrubs not exceeding 15%, with clusters of trees and shrubs in specific areas to be specified during detailed design.

Table 5: Trees and Shrubs for Corridor Side Slopes

| Scientific Name | Common Name |
|----------------------------|---------------------|
| Shrubs | |
| <i>Cornus sericea</i> | Red-osier Dogwood |
| <i>Cornus racemosa</i> | Grey Dogwood |
| <i>Prunus virginiana</i> | Choke Cherry |
| <i>Rhus typhina</i> | Staghorn Sumac |
| <i>Sambucus canadensis</i> | Common Elderberry |
| <i>Viburnum lentago</i> | Nannyberry |
| Trees | |
| <i>Acer rubrum</i> | Red Maple |
| <i>Carya ovata</i> | Shagbark Hickory |
| <i>Pinus strobus</i> | Eastern White Pine |
| <i>Quercus macrocarpa</i> | Bur Oak |
| <i>Thuja occidentalis</i> | Eastern White Cedar |
| <i>Tilia americana</i> | Basswood |

We trust that this addendum addresses the outstanding comment regarding planting density and species for the Natural Heritage System blocks. Should you have any further questions or require additional information, please do not hesitate to contact us.

Sincerely,

Prepared by:
Beacon Environmental Ltd.



Reuven Martin, B.Sc. Ecologist
Ecologist

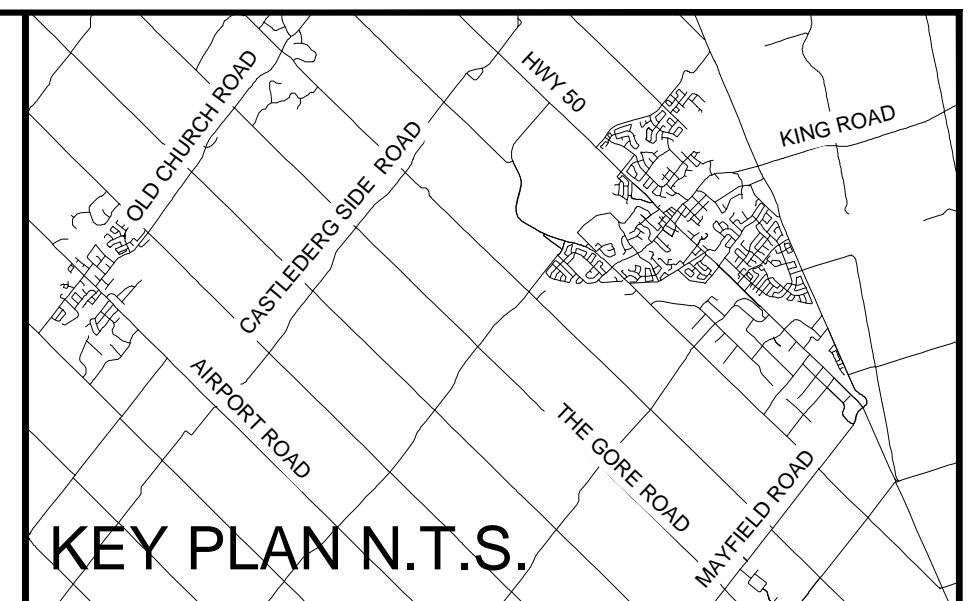
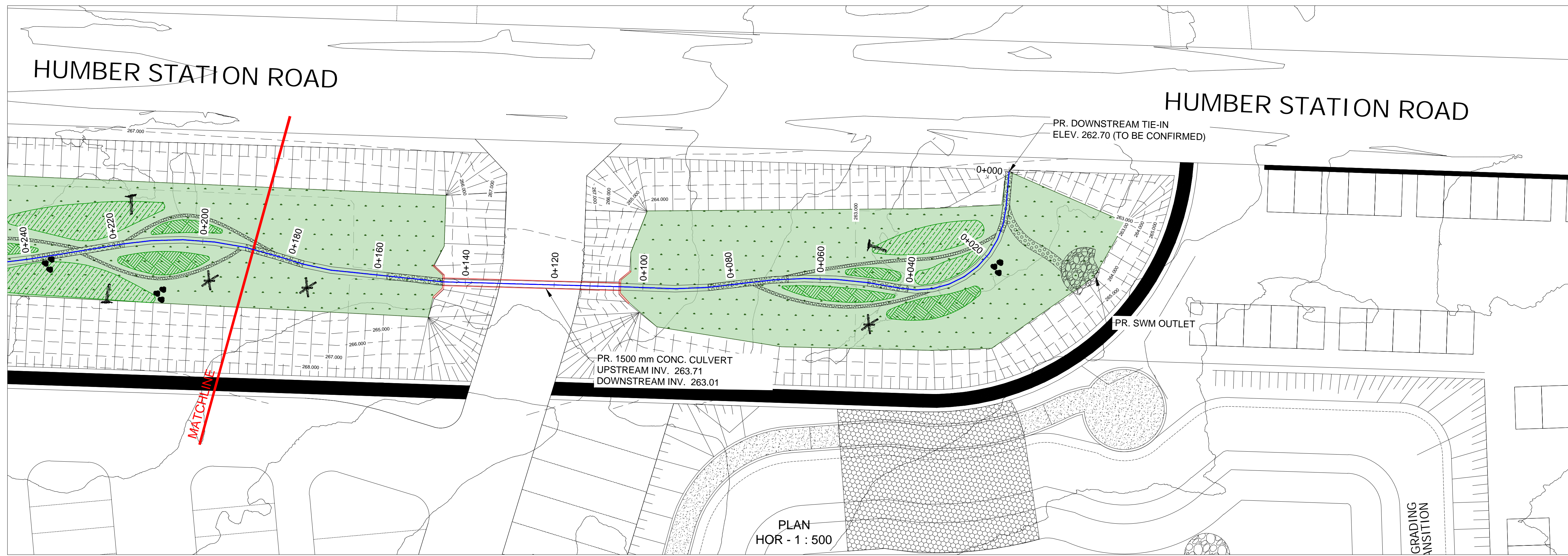
Reviewed By:
Beacon Environmental Ltd.



Jamie Nairn, M.Sc., P.Ag.
Senior Ecologist

2024-06-12_Bolton Greenway Channel Design_214476.dwg

2020-11-25



- LEGEND**
- PR. CONTOURS
 - PR. CHANNEL CENTRELINE AND BANKS
 - PR. RIVERSTONE MIX (REFER TO DETAILS ON D-1)
 - PR. SECONDARY OVERFLOW CHANNELS
 - PR. WETLAND (REFER TO DETAILS ON D-1)
 - PR. HUMMOCK FEATURES
 - PR. VERNAL POOLS
 - PR. BOULDER CLUSTERS
 - PR. BASKING LOGS
 - PR. WOOD DEBRIS HABITAT FEATURES

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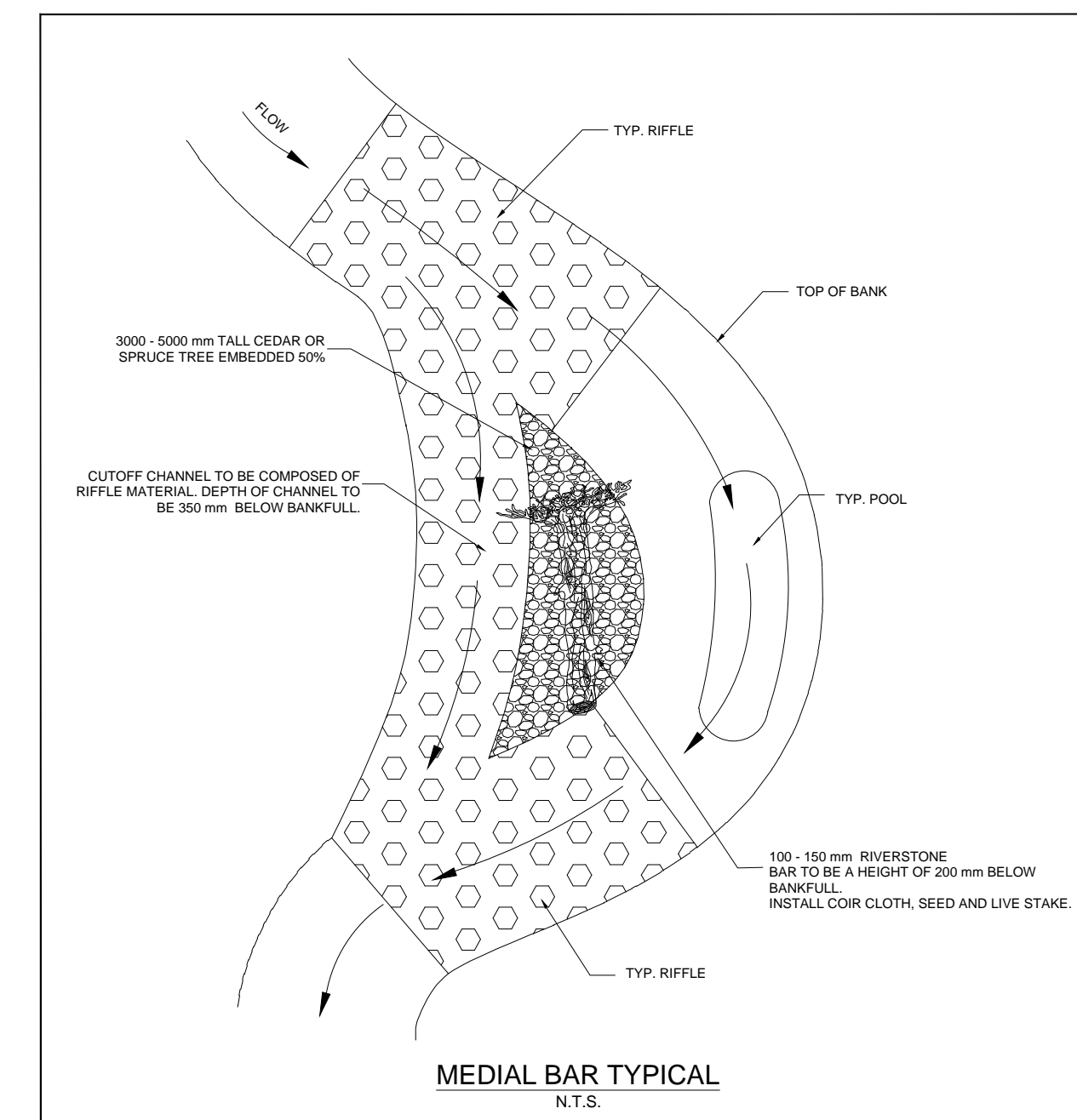
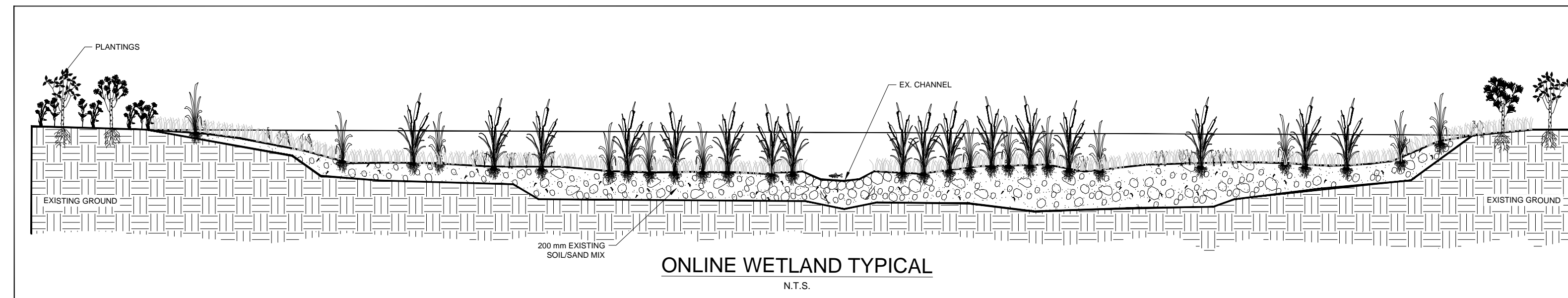
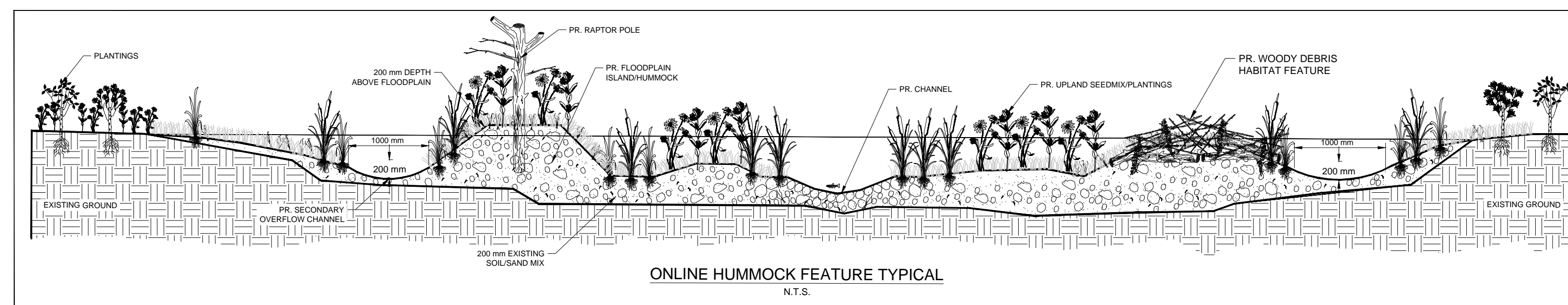
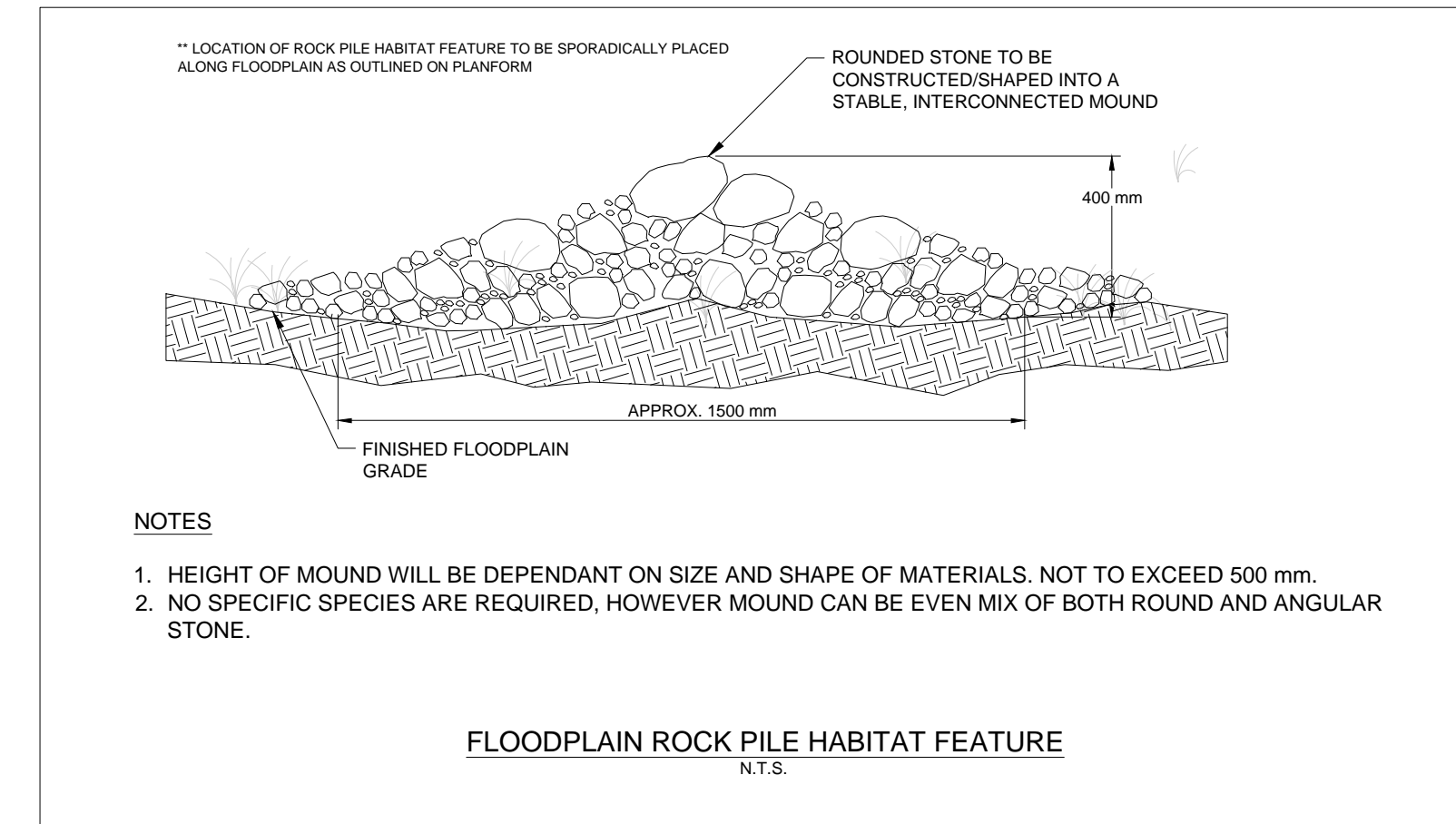
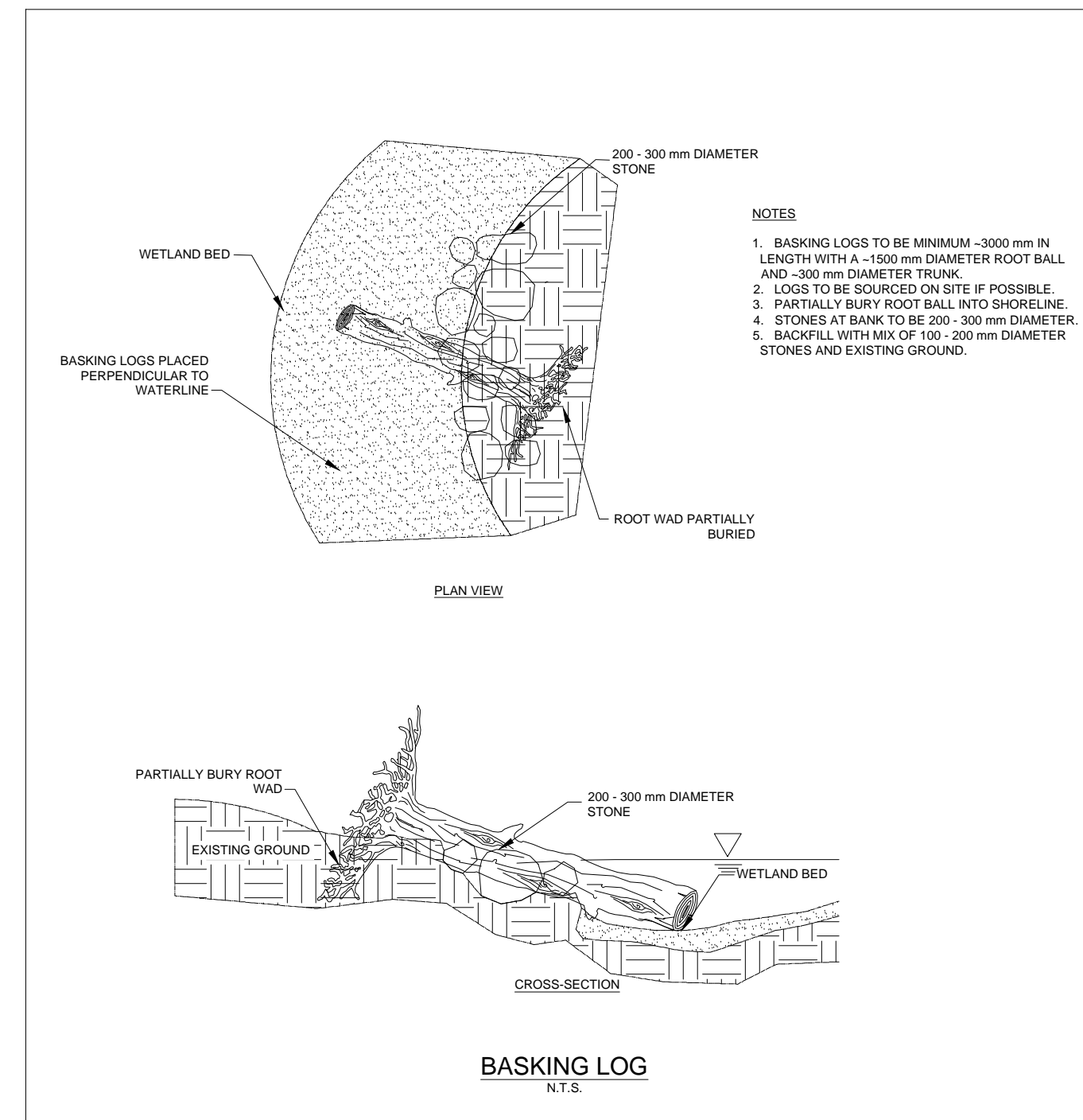
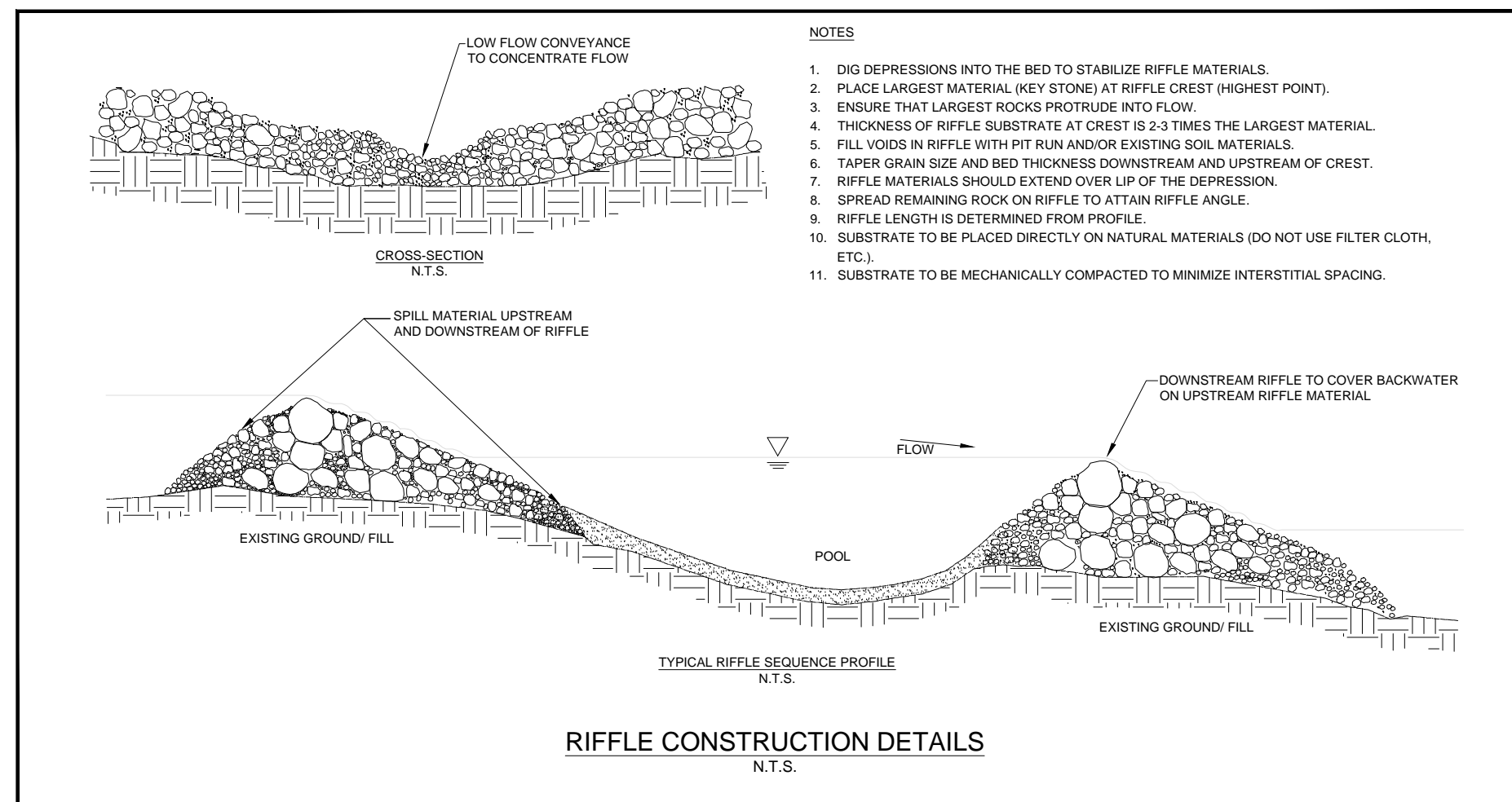
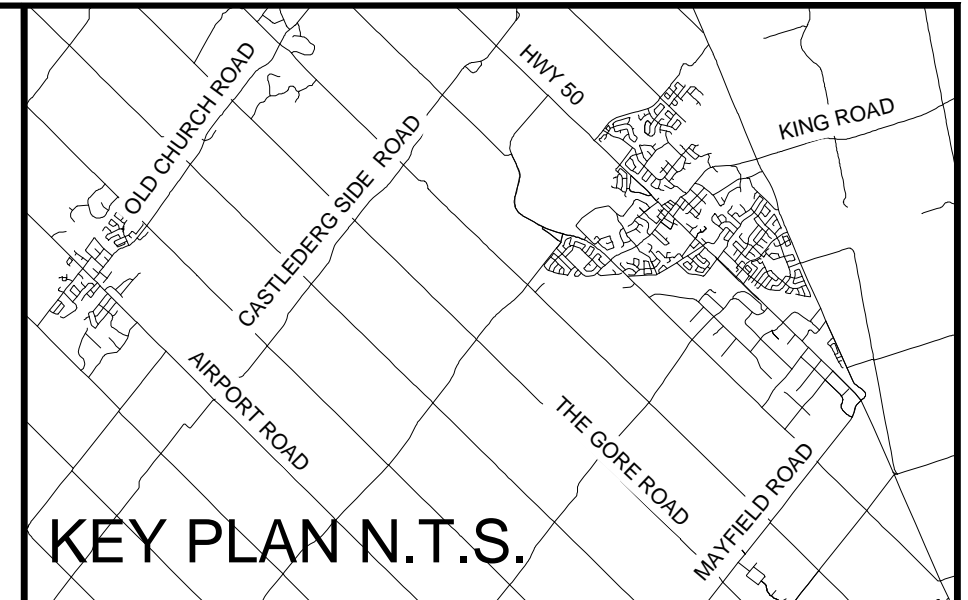
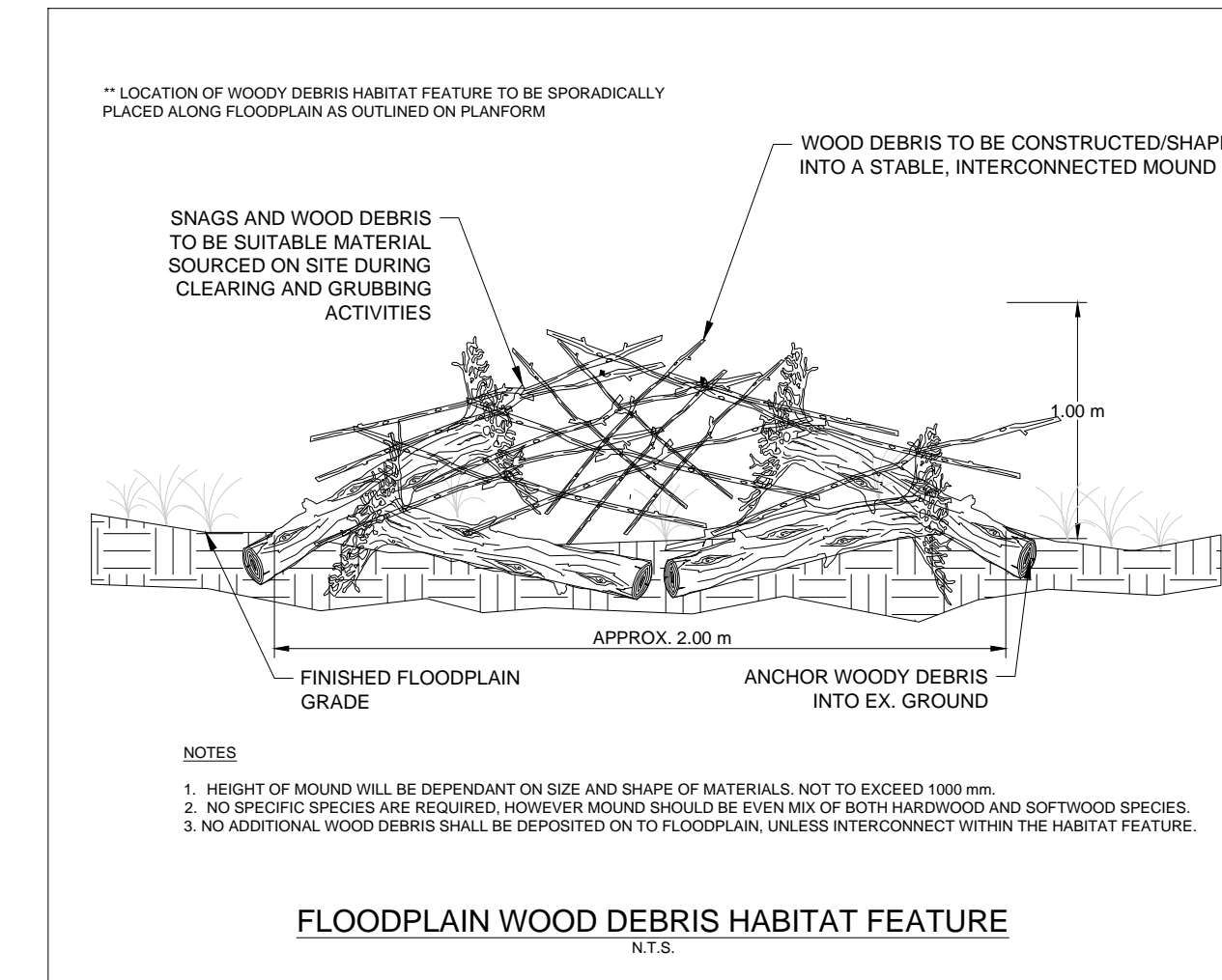
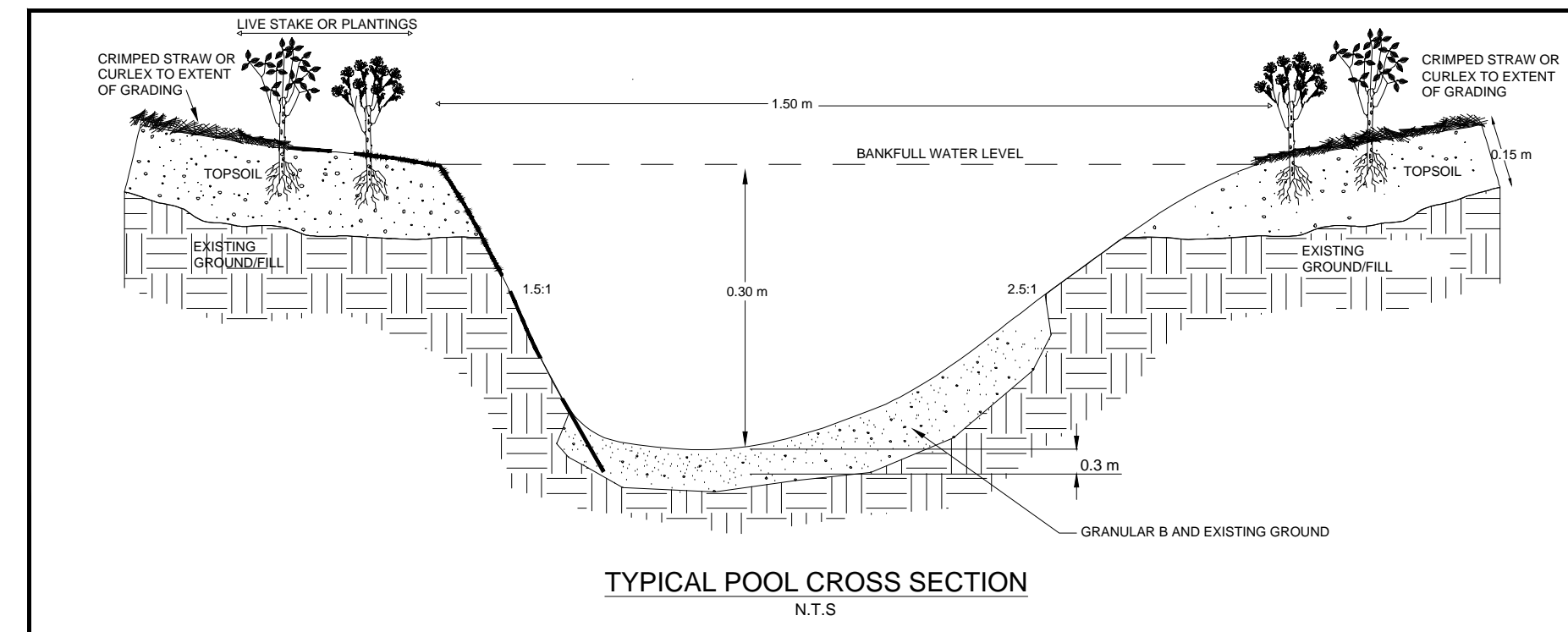
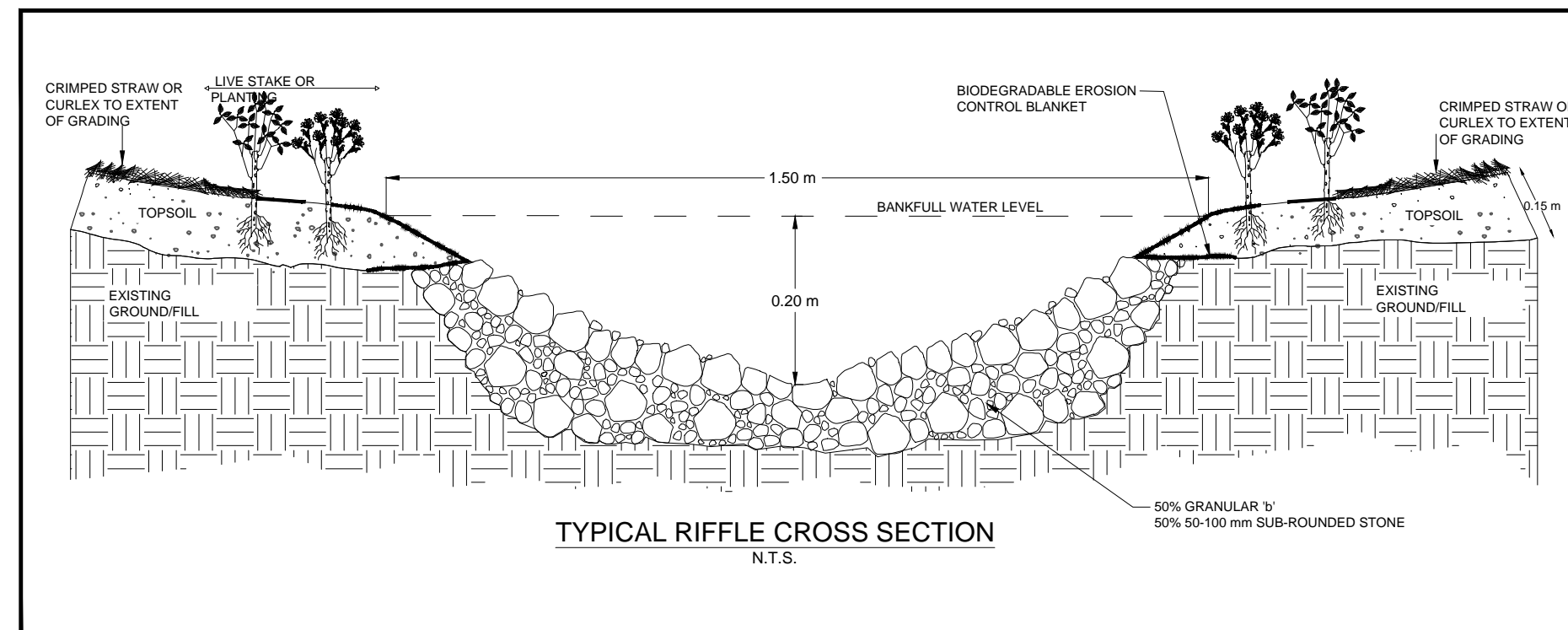


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