

**SOURCE & BENCHMARKS**

LEGAL SURVEY "PART 1, BLOCK 1, PLAN 65M-3843, TOWN OF EAST GWILLIMBURY, REGIONAL MUNICIPALITY OF YORK, PROVINCE OF ONTARIO", AND EXISTING TOPOGRAPHY AND SITE FEATURES, COMPILED BY SCHAEFFER DZALDOV PURCELL LTD (OLS), CONCORD, ONTARIO. SDP JOB 23-009 & 23-010, FILE "G2-M3843-BLOCK-1", 2023-MARCH. UTM ZONE 17, NAD-83 (CSRS-2010); CGVD-1928:1978, STATION 00820118077, BENCHMARK, ELEVATION 290.976 METRES GEODETIC, LOCATED AT THE INTERCHANGE OF PROVINCIAL HWY-404 AND YORK REGION ROAD-31 (DAVIS DRIVE), APPROXIMATELY 1400-METRES WEST OF SUBJECT SITE.

ADDITIONAL TOPOGRAPHY AND SITE FEATURES SURVEY, NORTH-EAST / EAST OF SITE LIMITS, COMPILED BY GHD LTD, WATERLOO, ONTARIO. GHD JOB 12605345, FILE "12605345(SOURCE)001 FILE 2 EXISTING CONDITIONS", 2023-NOVEMBER. UTM ZONE 17, NAD-83 (CSRS-2010). CGVD-1928:1978, YORK REGION VERTICAL CONTROL BENCHMARK 56-131, TABLET, ELEVATION 284.55, LOCATED 21.8 METRES SOUTH AND 82.4 METRES WEST OF THE CENTRELINE OF THE INTERSECTION OF YORK REGION ROAD-31 (DAVIS DRIVE), AND YORK REGION ROAD-8 (WOODBINE AVENUE), APPROXIMATELY 500-METRES SOUTH-WEST OF SUBJECT SITE.

PREPARED BY: TROPIC DESIGN

**1- OVERALL LANDSCAPE PLAN**

1 : 1000

Proposed Fenceline, Refer to SITE PLAN PROPOSED CONDITIONS - Sheet No. 12605345-GHD-10-10-DRG-CI-D104.

P03 ISSUED FOR SPA	G.B.	T.R.	2024-01-22		
P02 ISSUED FOR CLIENT REVIEW	G.B.	T.R.	2024-01-10		
P01 ISSUED FOR CLIENT REVIEW	G.B.	T.R.	2023-07-12		
No.	Issue	Checked	Approved	Date	
Author	H. CUDMORE	Drafting Check	G. BROUWER	Project Manager	G. BROUWER
Designer	G. BROUWER	Designer Check	T. RADFORD	Project Director	T. RADFORD

Plot Date: 24/01/24 4:55:45 PM

Path and File Name: 240119\_Convertus AD\_York\_Landscape

Bar is 25mm on original size sheet  
0 25mm



**TROPIC DESIGN**

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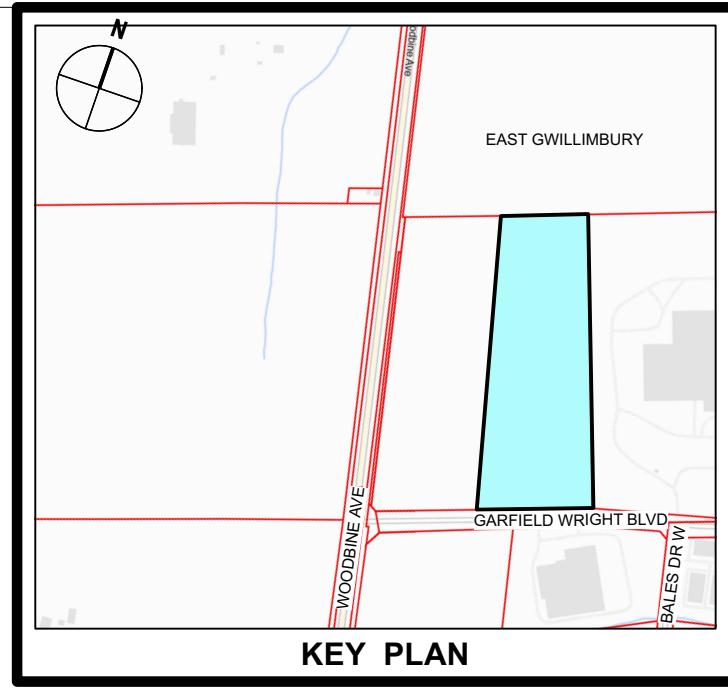
Client	CONVERTUS YORK BIOFUEL LTD.	Title	OVERALL LANDSCAPE PLAN
Project	CONVERTUS BIOFUEL FACILITY	Scale	As Noted
Project No.	12605345	Date	2023-06-26

Sheet No. 12605345-GHD-10-10-DRG-LA- D101

**PLANT LIST**

ID	Quantity	Botanical Name	Common Name	Scheduled Size
<b>TREES</b>				
Axf	34	Acer x freemanii	Armstrong Autumn Blaze Maple	80mmCT/WB
Ov	1	Ostrya virginiana	Ironwood	60mmCT/WB
Pg	8	Picea glauca	White Spruce	180cm ht WB
Qr	49	Quercus rubra	Northern Red Oak	80mmCT/WB
Tla	8	Tilia americana 'Redmond'	Redmond linden	80mmCT/WB
<b>SHRUBS, GRASSES AND PERENNIALS</b> *Refer to sheet 12605345-GHD-10-10-DRG-LA-D103 for species, locations, and quantities.				
AnC	40	Anemone canadensis	Canada anemone	1 Gal. pot
Al	16	Aster laevis	Smooth Blue Aster	1 Gal. pot
Cxa	39	Calamagrostis x acutiflora 'Karl Foerster'	Foerster's Feather Reed Grass	1 Gal. pot
Cg	6	Carex grayi	Gray Sedge	1 gal. pot
Ls	10	Liatis spicata	Spiked Gayfeather	1 gal. pot
Ra	10	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	50cm ht. potted
Rt	71	Rhus typhina	Staghorn Sumac	50cm ht potted
Rf	8	Rudbeckia fulgida 'Goldsturm'	Goldsturm Black Eyed Susan	1 Gal. pot
ToG	5	Thuja occidentalis 'Golden Globe'	Golden Globe Cedar	50cm ht. potted

- Plan quantities supersede plant quantities.
- Report any discrepancies to the Landscape Architect.
- Layout to be confirmed on site with Landscape Architect.
- CT - caliper tree; WB - wire basket; BR - bare root.



**PLANT MATERIALS**

	<b>Proposed Deciduous Trees- See plant list for additional details</b>	1 (LA-D501)
	<b>Proposed Coniferous Trees- See plant list for additional details</b>	2 (LA-D501)
	<b>Proposed Shrub/Perennial/Vine- See plant list and LA-D502 for details</b>	1 (LA-D502)
<b>LANDSCAPE MATERIALS</b>		
	<b>Lawn Seed Mix- Futura Blue by DLF Pickseed</b> See mixture notes on LA-D501.	
	<b>Planting Area</b> Min 450mm depth growing medium, unless noted otherwise. See LA-0103 for Planting Plan.	
<b>Road Network</b>		
	<b>Concrete Paving</b>	2 (LA-D502)
	<b>Concrete Unit Paving</b> Unilock Granito 600mm Random. Colour: Sabia with Grey Sand Jointing	7 (LA-D502)
	<b>General Seed Mix- 60% Pollinator &amp; Eastern Ecotype Mix by DLF Pickseed-</b> See notes on LA-D501.	
	<b>Bioretention Area- Dry Pond Steep Slope Seed Mix-</b> See mixture notes on LA-D501.	

**LANDSCAPE STRUCTURES/FURNISHINGS**

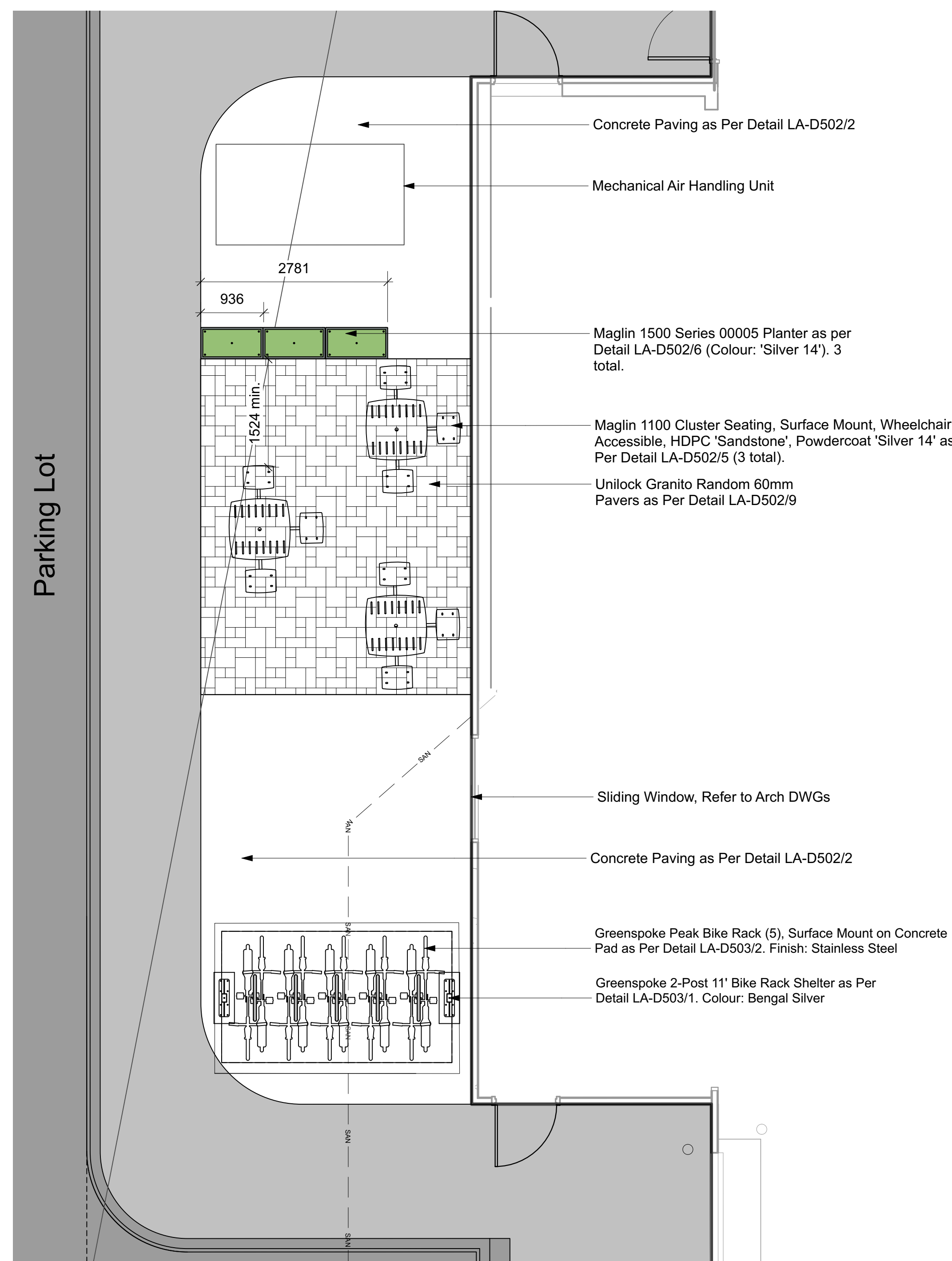
	<b>Maglin 1100-00014 Cluster Seating</b> Colour: HDPC 'Sandstone' and 'Silver 14'.	5 (LA-D502)
	<b>Greenspoke 2-Post Bike Shelter</b> Colour: Bengal Silver	1 (LA-D503)
	<b>Greenspoke Peak Bike Rack (5 total)</b> Finish: Stainless Steel	2 (LA-D503)
	<b>Maglin 1500 00007 Planter (3 total)</b> Colour: Silver 14	8 (LA-D502)

**GENERAL DRAWING NOTES**

- Drawing is in metric scale. All dimensions are in millimeters. Do not scale drawings.
- Plus/Minus (+/-) dimensions are for general verification purposes only and are NOT to be used to establish layout of any feature(s), ever.
- The Contractor shall verify all field dimensions onsite during the quotation period. No extras will be allowed for discrepancies between the drawings and the actual site conditions unless reported in writing during the quotation period.
- It is the Contractor's responsibility to locate and have staked the exact utility location with all companies involved before starting any work. Hand dig within two (2) meters of all electrical lines.
- Keep the area outside the immediate construction zone clean, safe and usable by the public at all times. Contractor to coordinate all deliveries of materials to ensure minimal construction delays to the approval of the Landscape Architect and/or Owner's representative.
- Obtain approval of layout from the Landscape Architect and/or Owner's representative prior to commencement.
- All work to be guaranteed for a period of One (1) Year from the documented date of substantial performance. The Contractor shall notify the Landscape Architect in writing upon completion of work.
- Make good all damage resulting from work carried out under the contract, at no extra cost. This includes restoration of any/all construction access routes - to as new condition, to the satisfaction of the Landscape Architect and/or Owner's representative.
- The Landscape Architect is not responsible for the accuracy of survey, engineering or architectural drawings. Contractor to verify existing grading/topographic information prior to installing granular bases.
- Construction must conform to all applicable codes and regulations of all authorities having jurisdiction.
- Ensure positive drainage for finished surfaces leaving no pockets or low points for standing water.
- Wherever any material is specified by name and/or number thereof, such specifications shall be deemed to be used for the purpose of facilitating a description of the materials and establishing quality, and shall be deemed and construed to be followed by the words 'or approved equal'.
- No substitutions will be permitted which have not been submitted for prior approval by the Landscape Architect or Owner's representative. All materials shall be new and without flaws or defects and shall be the best of their class and kind. Sufficient descriptive literature and/or samples must be submitted as 'Equal' substitutes.
- All materials and other debris resulting from work shall be removed and disposed of off-site. Efforts shall be made to re-use and recycle excess materials where possible.
- These notes apply to all parts of this contract.

**PRELIMINARY - NOT FOR CONSTRUCTION**

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### 1- STAFF COURTYARD

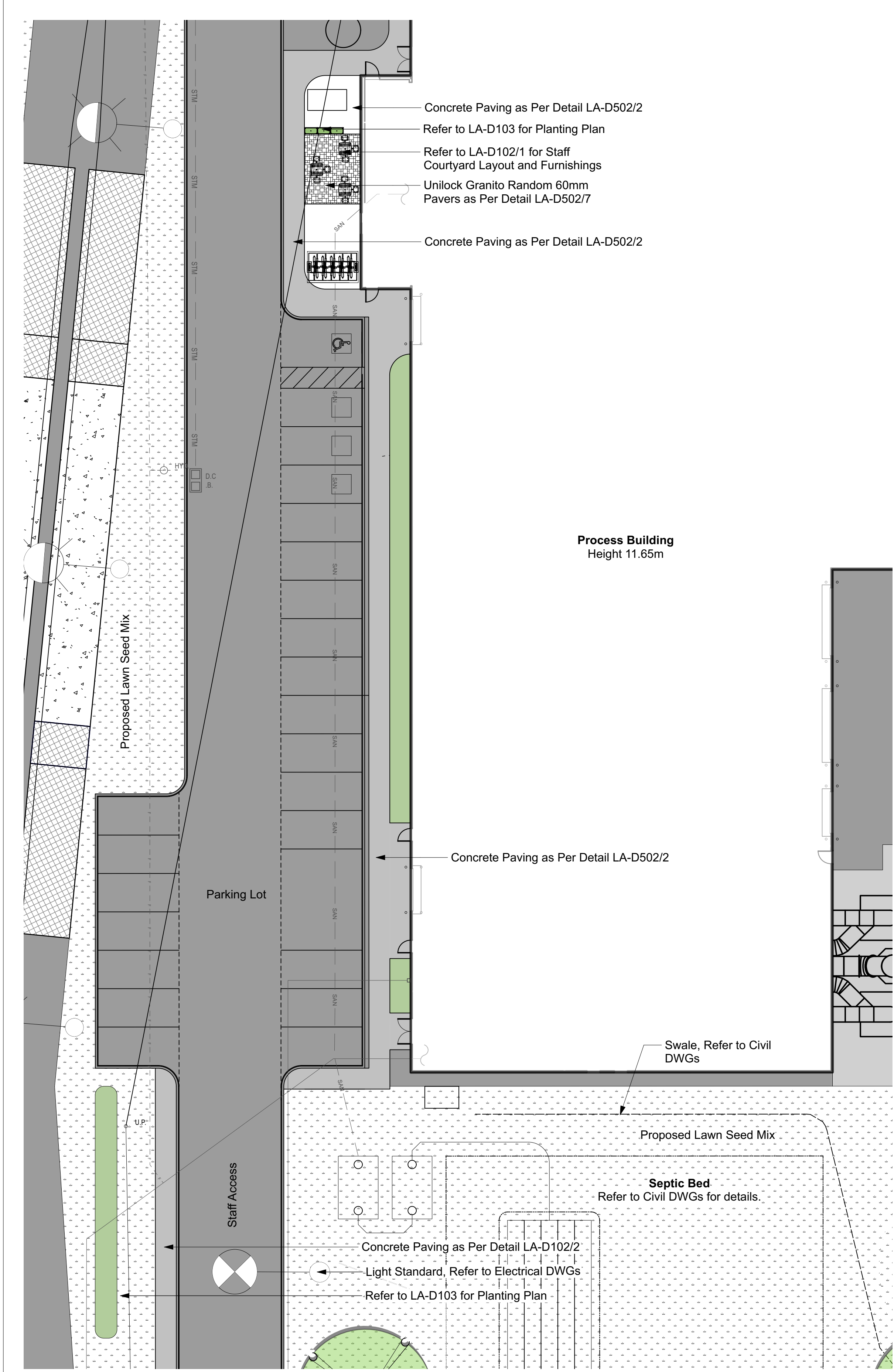
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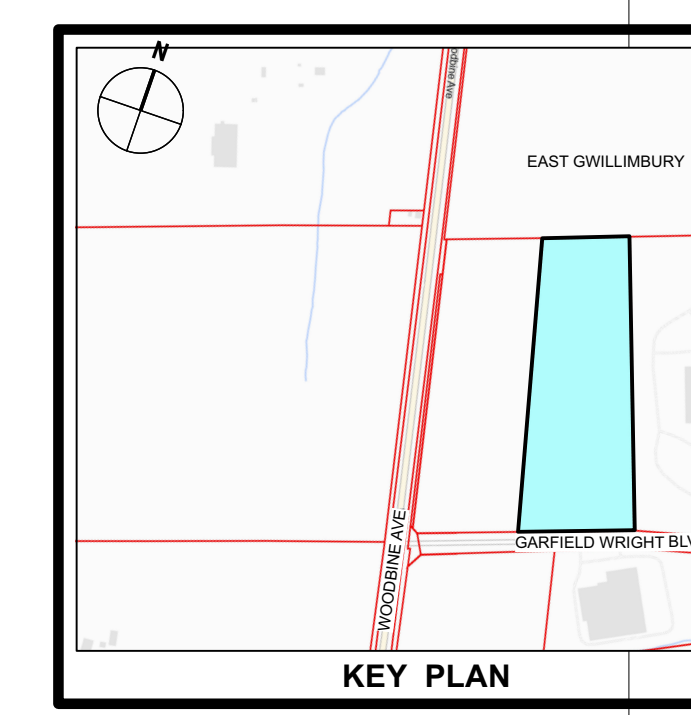
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### 2- LANDSCAPE PLAN

1 : 200



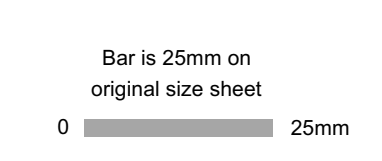
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	Finish: Stainless Steel	
	Maglin 1500 00007 Planter (3 total)	8 (LA-D502)
	Colour: Silver 14	

PRELIMINARY - NOT FOR CONSTRUCTION

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Author	Drafting Check	Project Manager
H. CUDMORE	G. BROUWER	G. BROUWER
Designer	Designer Check	Project Director
G. BROUWER	T. RADFORD	T. RADFORD



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Project	CONVERTUS BIOFUEL FACILITY	Scale	As Noted
Project No.	12605345	Date	2023-06-26
Sheet No.	12605345-GHD-10-10-DRG-LA- D102		

**PLANT LIST**

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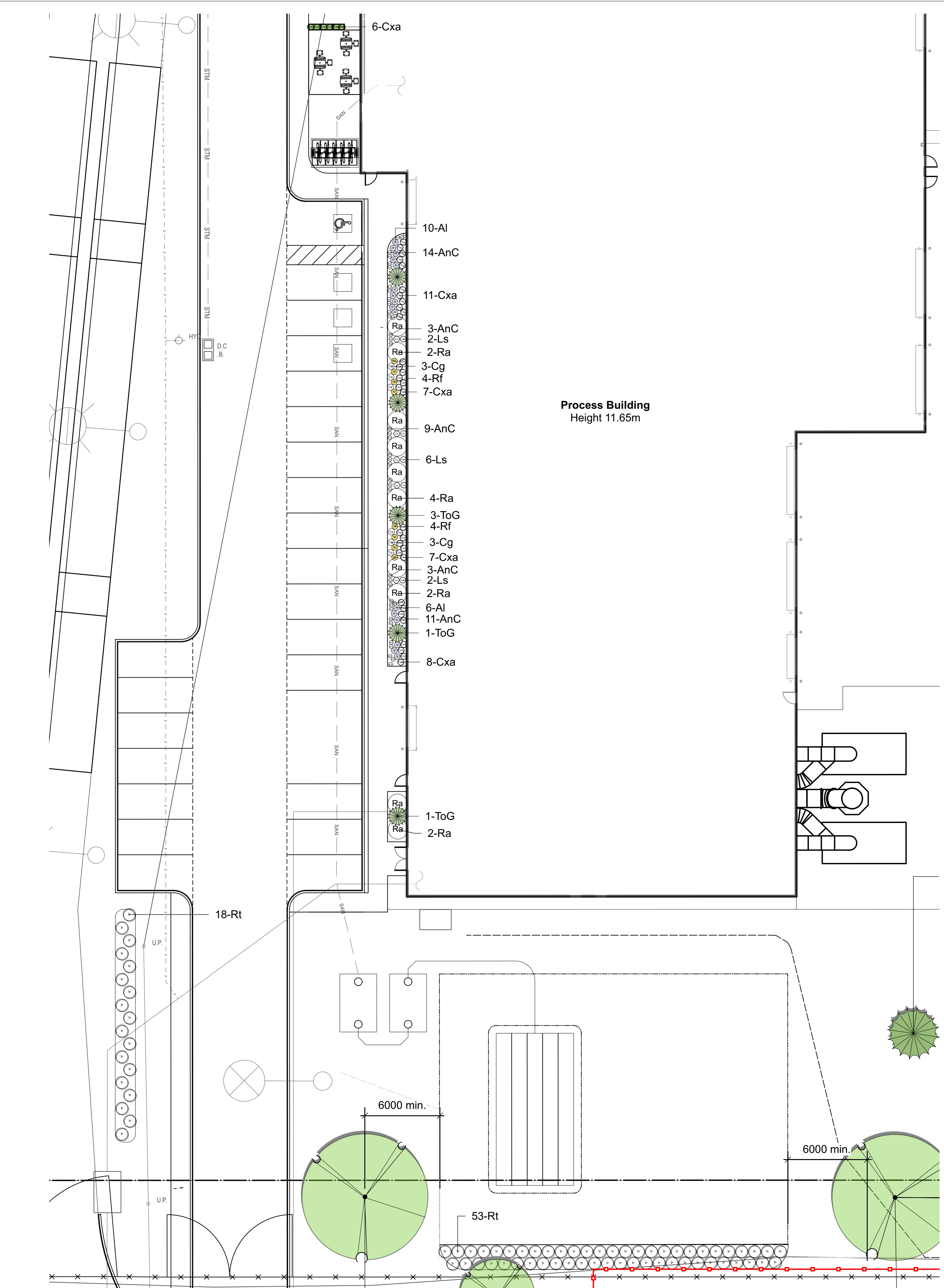
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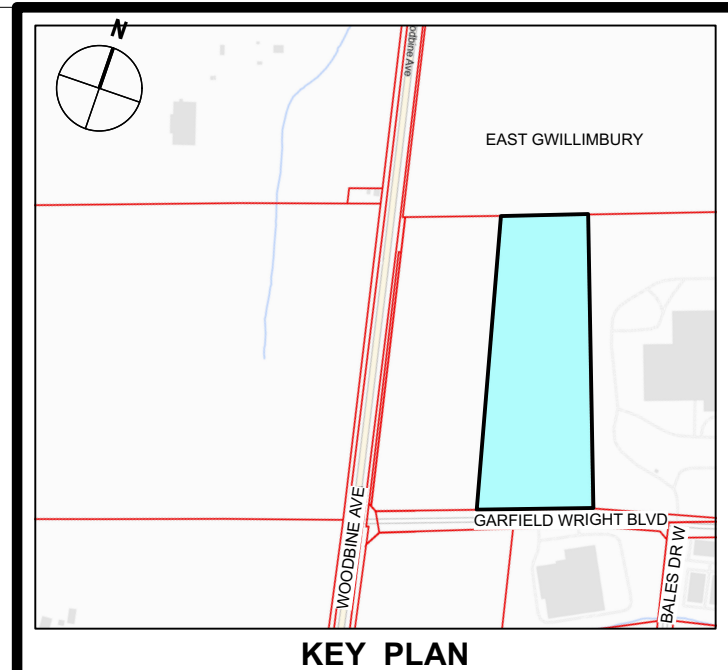
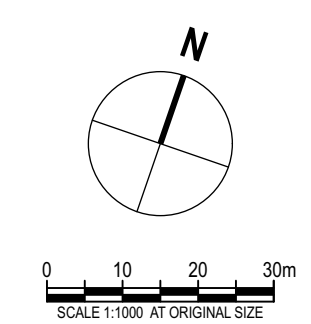
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**1- PLANTING PLAN**

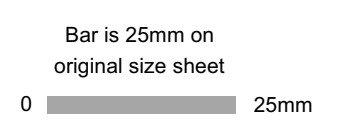
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Author	H. CUDMORE	Drafting Check	G. BROUWER	Project Manager	G. BROUWER
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Client **CONVERTUS YORK BIOFUEL LTD.**  
Project **CONVERTUS BIOFUEL FACILITY**

Title **PLANTING PLAN**

Project No. **12605345** Date **2023-06-26** Scale **As Noted** Sheet No. **12605345-GHD-10-10-DRG-LA- D103**

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**GENERAL LANDSCAPE NOTES**

- All planting and associated landscape work shall comply with the **Canadian Society of Landscape Architects - Canadian Landscape Standard**, latest edition.
- All nursery stock shall comply with the Canadian Nursery Landscape Association — **Canadian Nursery Landscape Association - Canadian Nursery Standard**, latest edition.
- Landscape work shall be carried out by experienced professionals with a minimum 5 years proven experience.
- The Contractor shall notify the Landscape Architect for review and approval of layout. Work that has been installed without layout approval that requires adjustment will be corrected at the Contractor's expense. The Landscape Architect reserves the right to adjust layout based on site conditions. Layout shall adhere to all authority clearances and setbacks. Trees shall not be directly over or under utilities.
- The Landscape Architect may reject any work, whether installed or not, that does not conform to specifications.
- The Contractor shall notify the Landscape Architect upon completion of work to arrange for substantial performance inspection and approval. Inspection shall be carried out during the leaf-on growing season.
- Plant material shall have nursery labels intact and trunk wrap and ties removed for substantial performance review. The Contractor shall remove all labels, tags and ties following substantial performance review.
- Corrective pruning shall be completed by the Contractor in accordance with **ISA Best Management Practice Pruning Standard** prior to inspection and include the removal of dead or broken branches, suckers and co-dominant leaders.
- Any leaning plant material shall be corrected by the Contractor prior to inspections.
- The Contractor shall carry out maintenance of all work immediately following installation until the end of the warranty period. Maintenance shall include all measures necessary to establish and maintain all plants and associated landscape work in an acceptable, vigorous and healthy condition including rodent protection, cultivating, weeding, watering, pruning and maintenance of all accessories.
- The Contractor shall notify the Landscape Architect at the end of the warranty period to arrange for final completion inspection. Inspection shall be carried out during the leaf-on growing season. The Contractor shall remove all staking prior to inspection for final completion if plant material is stable. Staking shall be left in place for removal by the Owner if plant material is not stable. At the time of final inspection all planting beds and tree pits shall be freshly cultivated, free of weeds, leaves, broken branches or debris.
- Any work that is not in satisfactory condition or does not meet the specifications shall be replaced within two (2) weeks of notification at the Contractor's expense. Replacement work shall include warranty equal to the original installation.

**GROWING MEDIA**

- All subsoil shall be scarified to be the specified depth prior to the installation of growing media. Growing media shall be mixed in to the scarified subsoil interface.
- On-site (preserved) soil to be used as growing media should be tested by the Owner's consultant for recommendations to be included in the Contractor's scope of work.
- The Contractor shall provide origin documentation for approval for all imported growing media. Imported growing media shall be tested by a reputable laboratory at the expense of the Contractor or Owner. The results of the soil test and recommendations are to be provided to the Landscape Architect for approval one week prior to work commencing. If necessary, recommendations from the laboratory are to be implemented at the Contractor's expense.
- Growing media shall not contain any extraneous physical or chemical properties that may detract from supporting plant growth, no subsoil contamination, roots or stones over 50mm diameter.
- Growing media depths shall be noted on the drawings and details. Growing media shall be installed in lifts and compacted to be firm under foot.
- Growing media shall meet Canadian Landscape Standard nutrient levels identified in Section 5.2.7 and properties for Level 3 Moderate
- Growing media properties shall be adjusted to meet requirements for L - low traffic lawn areas, trees and large shrubs; H - high traffic lawn areas; and P - planting areas.

**PLANT MATERIAL**

- Contractor shall verify all plant material on drawing(s) and plant material list(s) and report any discrepancies during the bidding process.
- All plants shall be healthy, vigorous, and free of disease, insect pests, and invasive or noxious plant species. All plant parts shall be free from defects, decay, disfigurements and injury.
- There shall be no substitutions of plants without prior written approval from the Landscape Architect.
- The Landscape Architect reserves the right to reject plant material after installation and throughout the warranty period.

**PLANTING**

- Planting shall only be carried out during periods that are normal for such work as determined by local weather conditions, when seasonal conditions are likely to provide successful adaptation of plants in their new environment.
- Plants shall be well watered prior to being planted.
- Where poor drainage or percolation is suspected or observed, the Contractor shall report it to the Landscape Architect and rectify the condition prior to planting.
- Plants shall be stabilized using methods such that the crown of each tree is permitted free movement but normal forces will not shift the rootball in the growing medium. All tree stabilization methods shall be such that they do not damage the plants.

**MULCH**

- Mulch shall be commercially prepared four-season aged pine bark. The Contractor shall submit a sample of mulch and source for approval prior to delivery.
- Mulch shall be free of debris, construction waste and hardwood chips.
- Mulch shall not be placed against trunks or on top of branches and foliage.

**WATERING**

- The Contractor shall water all plants and turf areas immediately after planting to the depth of their root systems.
- The Contractor shall carry out supplemental watering of all new plants for the first full growing season under warranty.
- Watering shall supplement natural precipitation to ensure soil moisture content is maintained at 50 percent to 100 percent field capacity.
- A minimum frequency of once per month throughout the growing season is required. Apply water to the root area, around the trunk/stem and within the dripline to saturate the soil to a minimum of 500mm.
- The Contractor shall water all coniferous trees in late fall, prior to freeze-up.
- Watering bags may be used for trees. 20 gallon drip watering bags shall be installed at the base of each tree with no mulch between the bag and the trunk. The Contractor shall monitor bags and tree trunks for damage and repair/replace as required. Watering bags shall be removed during winter and at the end of the warranty period.
- If no automated irrigation system or on-site hose bib has been provided for watering operations, the Contractor shall provide water to the site.
- Watering operations shall not disturb or wash away mulch, soil or turf.
- The Contractor shall monitor new plantings for signs of drought.

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Author	H. CUDMORE	Drafting Check	G. BROUWER	Project Manager	G. BROUWER
Designer	G. BROUWER	Designer Check	T. RADFORD	Project Director	T. RADFORD

Plot Date: 24/01/22 4:55:45 PM Path and File Name: 240119\_Convertus AD\_York\_Landscape

**LAWN SEED MIX: DLF Pickseed Futura Blue Seed Mix or Approved Equal Hydroseed application as shown on drawing.**

- 40% Certified Perennial Ryegrass #1
- 40% Certified Perennial Ryegrass #2
- 10% Certified Kentucky Bluegrass #1
- 10% Certified Kentucky Bluegrass #2
- Seed shall be applied at a rate of 21kg/Ha with cover crop of oats at a rate of 20kg/Ha.

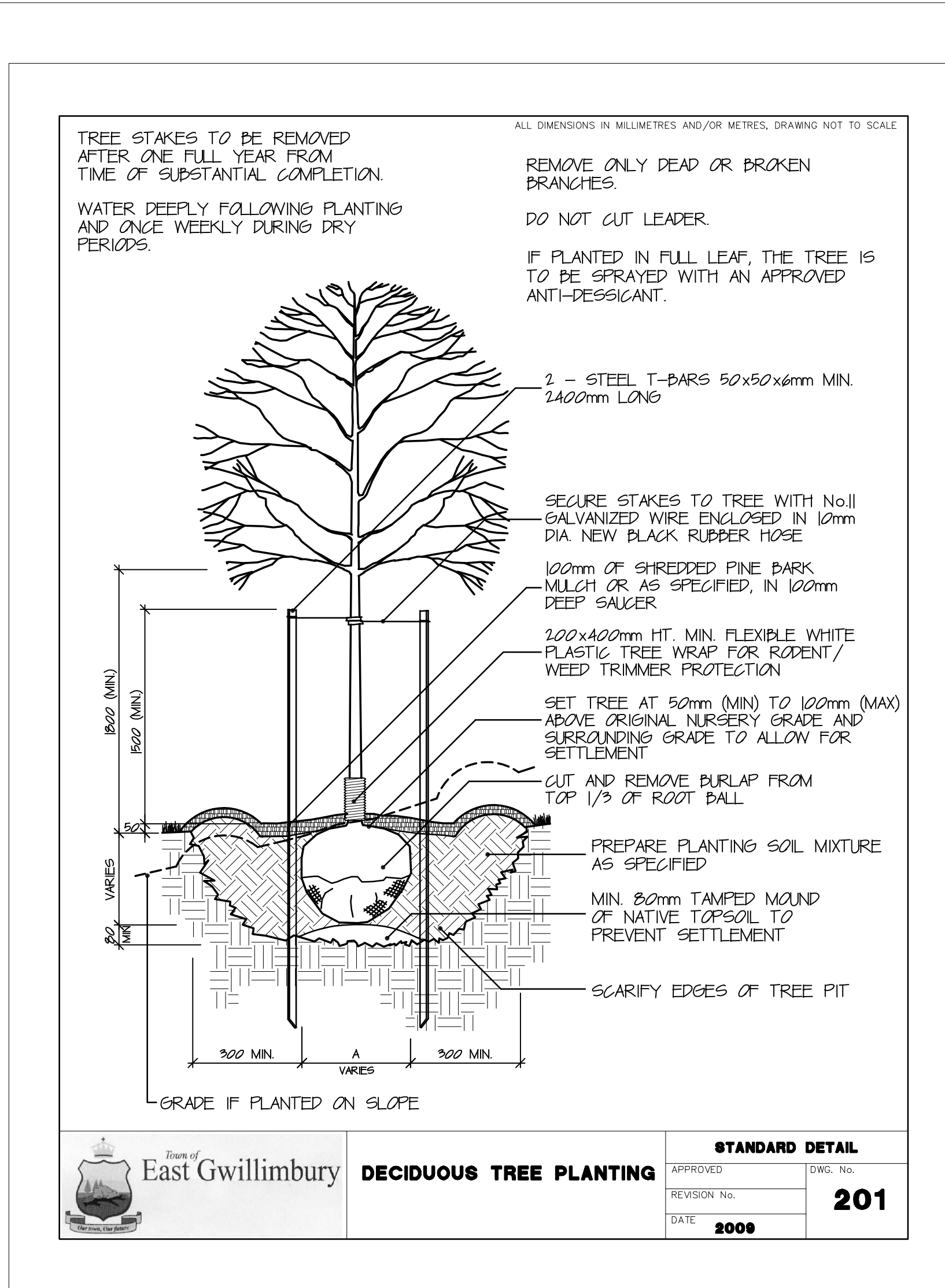
**GENERAL SEED MIX BLEND** by DFL Pickseed or approved equal. Hydroseed application as shown on drawing.

60% - **Pollinator Mix** (DLF Pickseed)

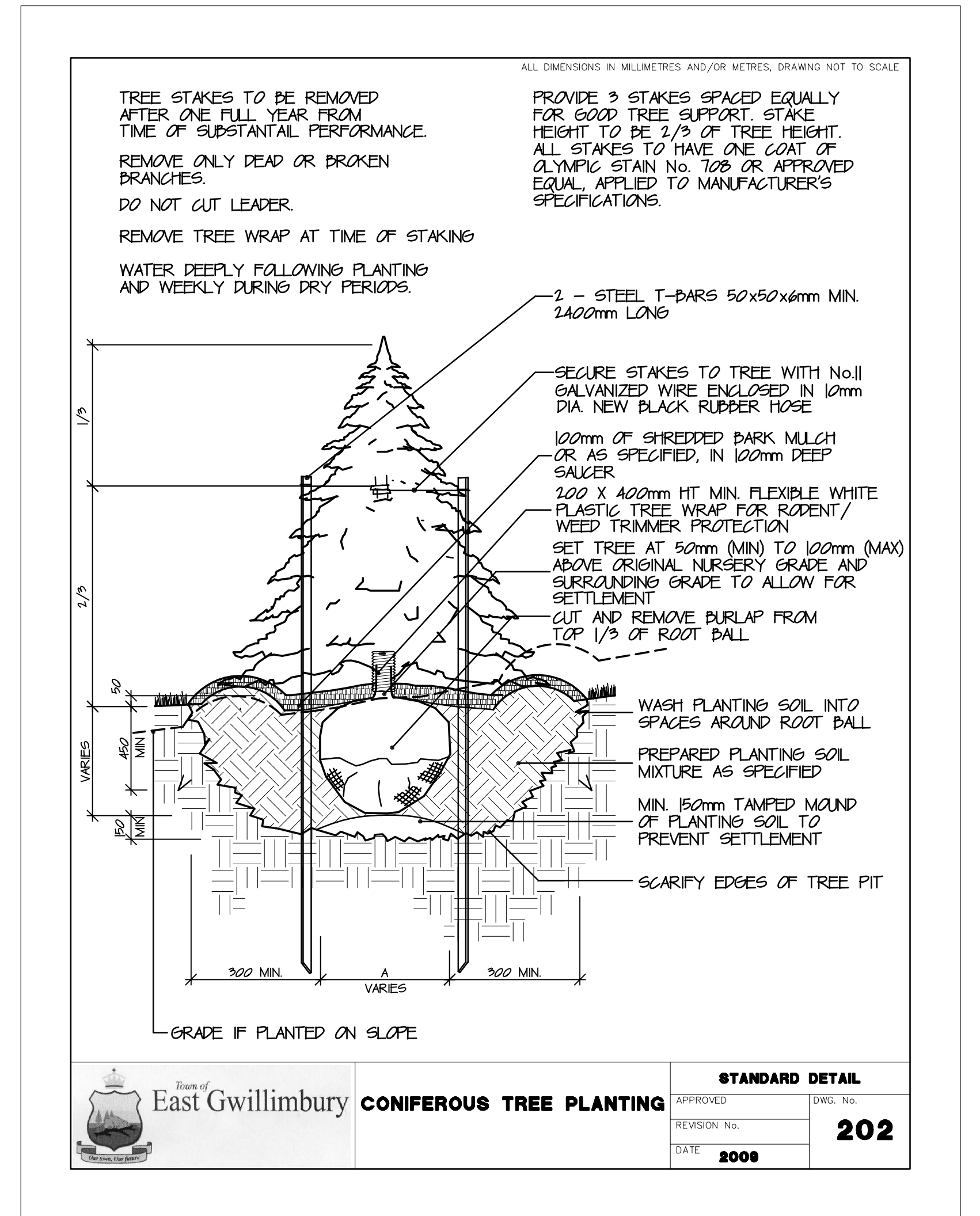
- Butterfly Milkweed (Asclepias tuberosa)
- Lanceleaf Coreopsis (Coreopsis lanceolata)
- Canada Tick Trefoil (Desmodium canadense)
- Oxeye Sunflower (Heliopsis helianthoides)
- Dense blazingstar (Liatris spicata)
- Dotted Mint (Monarda punctata)
- Common Evening Primrose (Oenothera biennis)
- Foxglove Beardtongue (Penstemon digitalis)
- Cutleaf coneflower (Rudbeckia laciniata)
- Canada Goldenrod (Solidago canadensis)
- Grey Goldenrod (Solidago nemoralis)
- Smooth Aster (Symphyotrichum laeve)
- New England Aster (Symphyotrichum novae-angliae)
- Golden Alexanders (Zizia aurea)

40% - **Eastern Ecotype - Upland and Meadows** (DLF Pickseed)

- Autumn Bentgrass (Agrostis perennans)
- Big Bluestem (Andropogon gerardii)
- Virginia Wild Rye (Elymus virginicus)
- Switchgrass (Panicum virgatum)
- Little Bluestem (Schizachyrium scoparium)
- Indiangrass (Sorghastrum nutans)



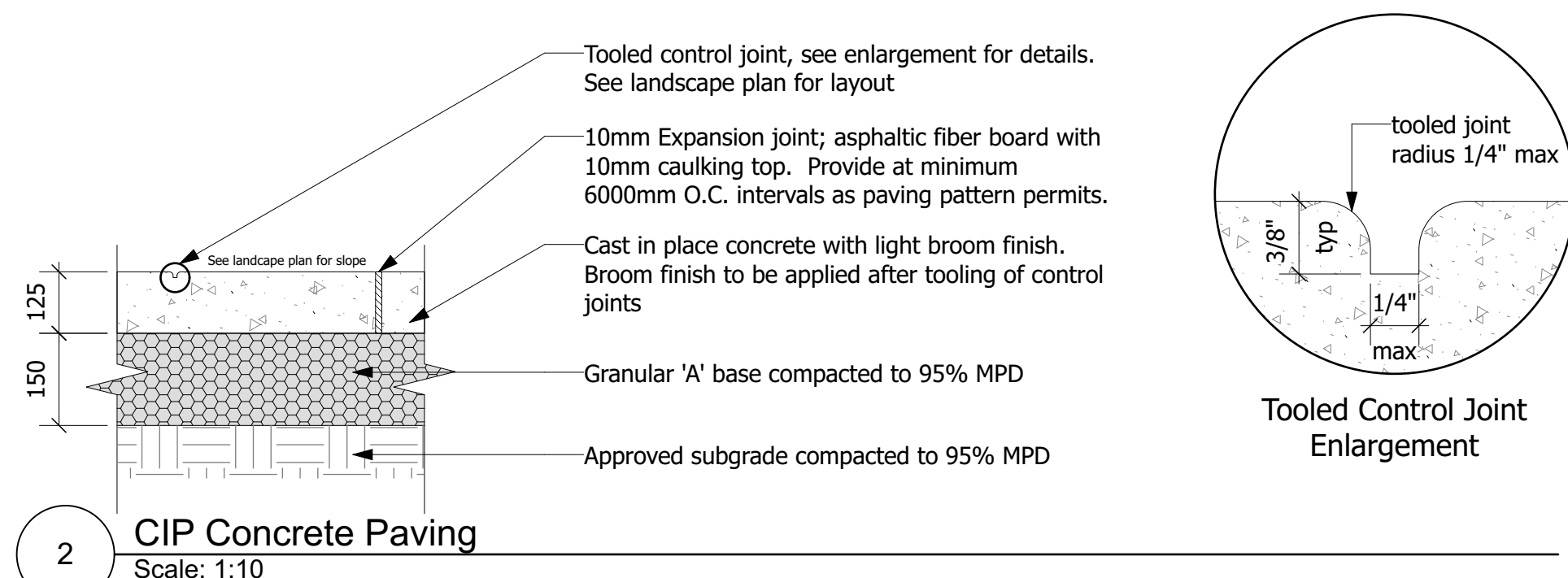
1 Deciduous Tree Planting Scale: 1:25



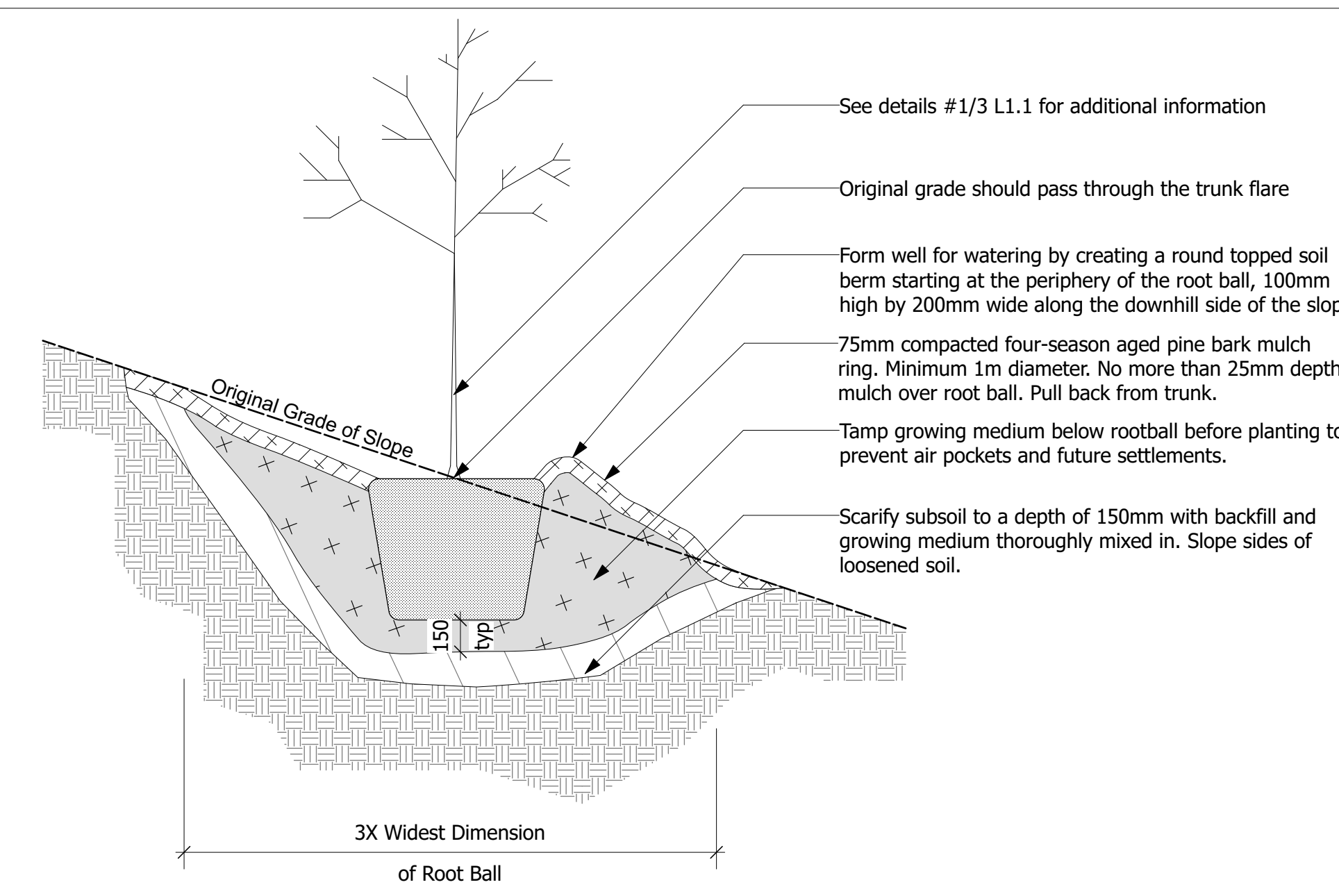
2 Coniferous Tree Detail Scale: 1:25

**PRELIMINARY - NOT FOR CONSTRUCTION**

				Client <b>CONVERTUS YORK BIOFUEL LTD.</b>	Title <b>LANDSCAPE DETAILS 1 OF 3</b>	Size <b>ARCH D</b>
Bar is 25mm on original size sheet 0 25mm				Project <b>CONVERTUS BIOFUEL FACILITY</b>	Project No. <b>12605345</b>	Date <b>2023-06-26</b>
Author <b>H. CUDMORE</b> Drafting Check <b>G. BROUWER</b> Project Manager <b>G. BROUWER</b>		Designer <b>G. BROUWER</b> Designer Check <b>T. RADFORD</b> Project Director <b>T. RADFORD</b>		Scale <b>As Noted</b>	Sheet No. <b>12605345-GHD-10-10-DRG-LA- D501</b>	Sheet No.



2 CIP Concrete Paving  
Scale: 1:10



3 Tree Planting on Slope  
Scale: 1:25

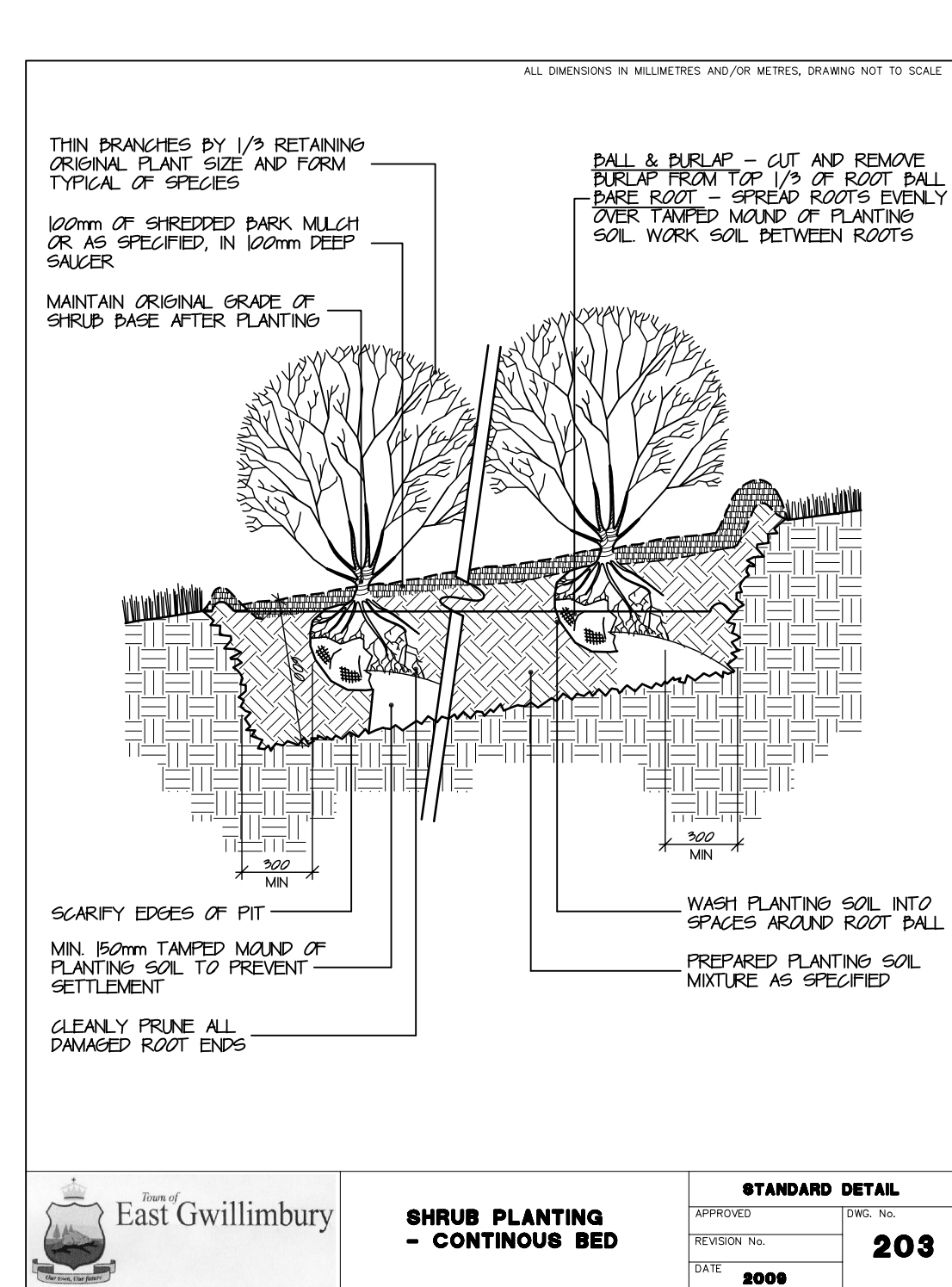
SOURCE & BENCHMARKS

LEGAL SURVEY "PART 1, BLOCK 1, PLAN 65M-3843, TOWN OF EAST GWILLIMBURY, REGIONAL MUNICIPALITY OF YORK, PROVINCE OF ONTARIO", AND EXISTING TOPOGRAPHY AND SITE FEATURES, COMPILED BY SCHAEFFER DZALDOV PURCELL LTD (OLS), CONCORD, ONTARIO. SDP JOB 23-009 & 23-010, FILE "G2-M3843-BLOCK-1", 2023-MARCH. UTM ZONE 17, NAD-83 (CSRS-2010); CGVD-1928:1978, STATION 00820118077, BENCHMARK, ELEVATION 290.976 METRES GEODETIC, LOCATED AT THE INTERCHANGE OF PROVINCIAL HWY-404 AND YORK REGION ROAD-31 (DAVIS DRIVE), APPROXIMATELY 1400-METRES SOUTH-WEST OF SUBJECT SITE.

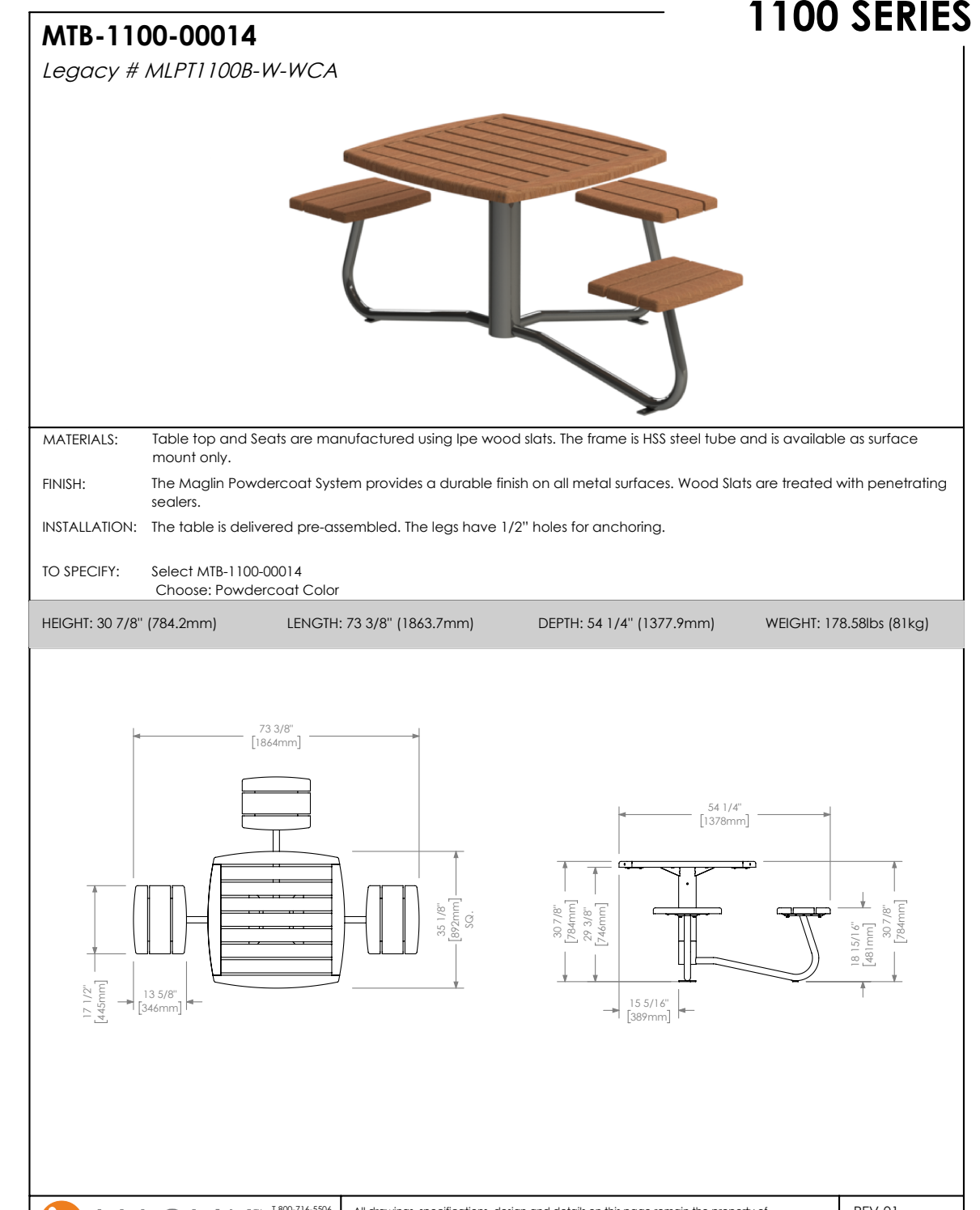
ADDITIONAL TOPOGRAPHY AND SITE FEATURES SURVEY, NORTH-EAST / EAST OF SITE LIMITS, COMPILED BY GHD LTD, WATERLOO, ONTARIO. GHD JOB 12605345, FILE "12605345(SOURCE)001 FILE 2 EXISTING CONDITIONS", 2023-NOVEMBER. UTM ZONE 17, NAD-83 (CSRS-2010), CGVD-1928:1978, YORK REGION VERTICAL CONTROL BENCHMARK 56-131, TABLET, ELEVATION 284.55, LOCATED 21.8 METRES SOUTH AND 82.4 METRES WEST OF THE CENTRELINE OF THE INTERSECTION OF YORK REGION ROAD-31 (DAVIS DRIVE), AND YORK REGION ROAD-8 (WOODBINE AVENUE), APPROXIMATELY 500-METRES SOUTH-WEST OF SUBJECT SITE.

PREPARED BY: TROPIC DESIGN

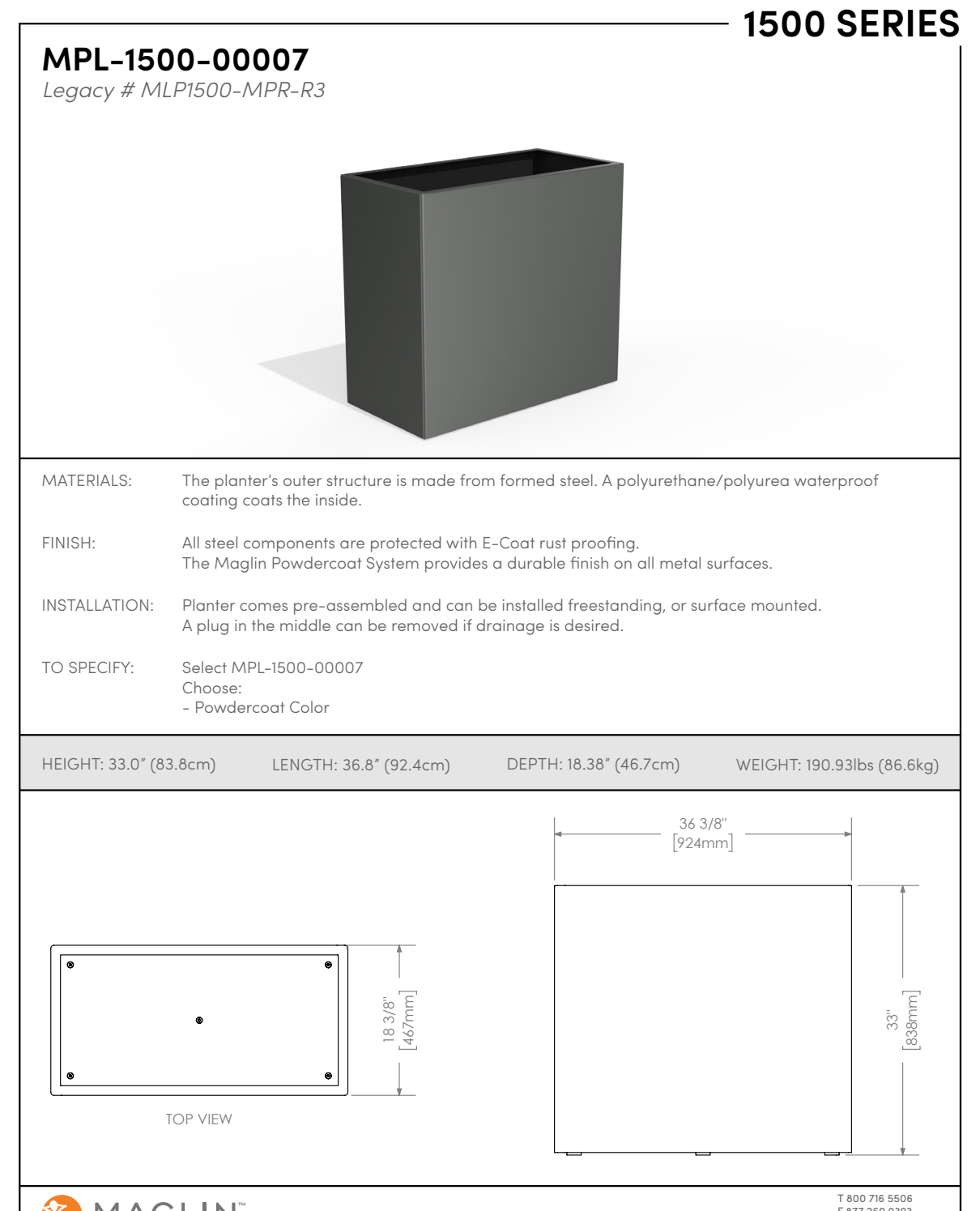
P03 ISSUED FOR SPA	G.B.	T.R.	2024-01-22		
P02 ISSUED FOR CLIENT REVIEW	G.B.	T.R.	2024-01-10		
P01 ISSUED FOR CLIENT REVIEW	G.B.	T.R.	2023-07-12		
No.	Issue	Checked	Approved	Date	
Author	H. CUDMORE	Drafting Check	G. BROUWER	Project Manager	G. BROUWER
Designer	G. BROUWER	Designer Check	T. RADFORD	Project Director	T. RADFORD



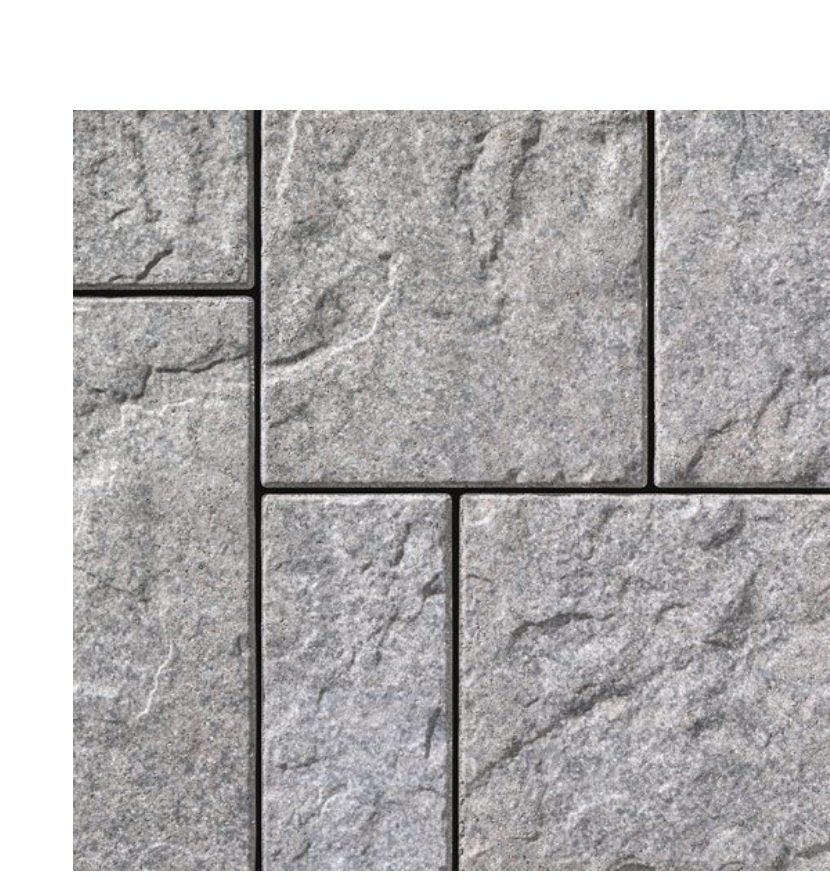
1 Shrub Planting  
Scale: 1:25



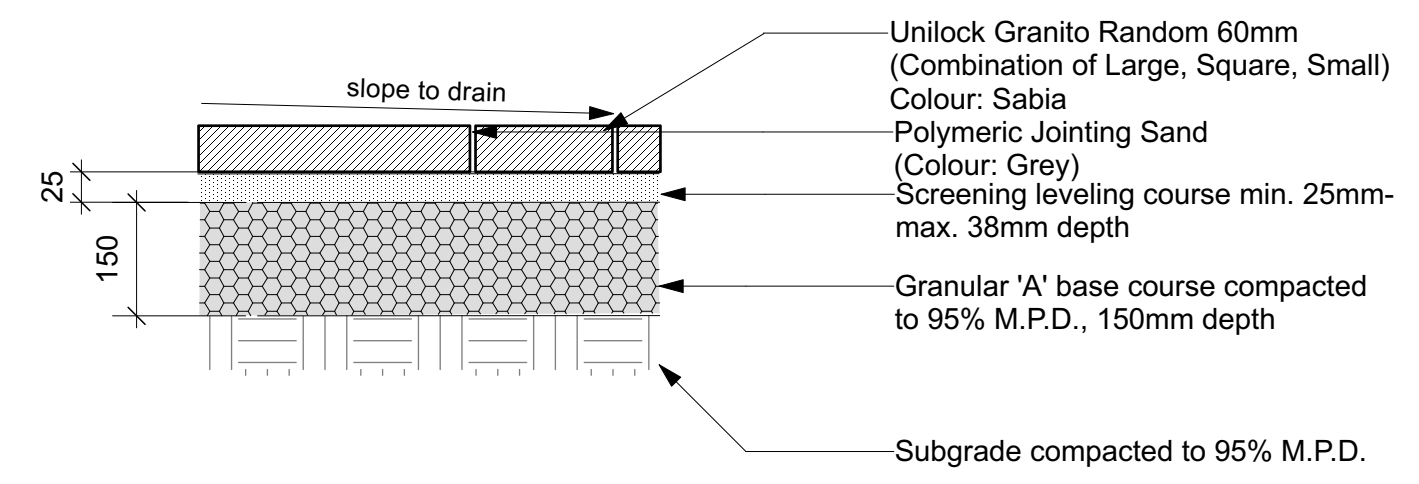
5 Maglin 1100 Series Cluster Seating  
Scale: N.T.S.



6 Maglin 1500 Series 00007 Planter (Colour: Silver 14)  
Scale: N.T.S.



Colour: Sabia with Grey Sand Joint



7 Unilock Concrete Paving- Granito Random Pattern B  
Scale: 1:10



NOTE: Some patterns may not necessarily reflect the percentages of stone sizes within a particular bundle configuration. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.



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PRELIMINARY - NOT FOR CONSTRUCTION

Client	CONVERTUS YORK BIOFUEL LTD.	Title	LANDSCAPE DETAILS 2 OF 3	Size	ARCH D
Project	CONVERTUS BIOFUEL FACILITY	Project No.	12605345	Date	2023-06-26
Scale	As Noted	Sheet No.	12605345-GHD-10-10-DRG-LA- D502		



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### 2-Post, 11' Bike Shelter

Model: 855020  
- General Specifications -  
Rev.: 27 Aug 19

**GREENSPOKE BIKE PARKING SOLUTIONS**  
1-844-888-9999  
www.greenspoke.com

**Top View (Footprint)**  
130.0 (11'-3")  
77.0 (6'-5")  
18.0  
24.0  
25.5 Ref.  
37.8  
30.1

**Side View**  
132.0 (11'-3")  
101.1  
3.0  
10'  
84.0 (7')  
32.0 Ref.  
6.00  
6.00  
6.00  
6.00  
38.0  
38.0  
38.0  
38.0  
96.0 (8')  
132.0 (11'-3")

**Materials:**  
Type S Corrugated Sheet Roofing  
Qty: 5 Sheets per Shelter  
24 Ga. Galvalume Coated, Kynar 500 Painted, Spinal Roofing Panels  
Hardware Required: #12-1/4" x 1-3/4" Self-Drilling Screws (TEK) Qty: Approx. 20 Pieces per Sheet

**Notes:**  
Suggested Concrete Piers  
Minimum Size: 12" x 30" x 48" Deep  
(Note: In lieu of piers, a 4" min. thickness reinforced concrete pad could be used.)

**1 Greenspace 2-Post Bike Shelter (Colour: Bengal Silver)**  
Scale: N.T.S.

### Peak

Product Outline

**Peak Capacity:** 2 Bikes

**Materials:** 1.64" OD

**Finishes:**  
Powder Coat (low-high strength with electrostatically applied powder finish over stretch primer)  
Stainless Steel (304 grade stainless steel with varying surface finishes available from glass to satin)

**Mounting Options:**  
In-ground: Embedded in concrete footings. Detailed instruction provided for each rack.  
Surface: Base plates are anchored directly to the concrete using tapered post anchors. Greenspoke includes the hardware required for both in-ground and surface hardware options also available. Typical anchor hardware: 1/2" security bolt, 1/2" deep-in-anchor (with setting tool)

**2 Greenspoke Peak Bike Rack (Finish: Stainless Steel)**  
Scale: N.T.S.

### TREE PROTECTION ZONE (TPZ)

PLEASE NOTE THAT ANY:  
GRADE CHANGE  
DUMPING  
STORAGE  
UNAUTHORIZED ENTRY  
TREE INJURY OR REMOVAL  
DISTURBANCE OF ANY KIND  
IS STRICTLY PROHIBITED WITHIN THIS TPZ

**THIS BARRIER SHALL NOT BE DAMAGED OR MOVED**  
PLEASE REPORT ANY ENTRY INTO THIS ZONE TO NATURAL HERITAGE AND FORESTRY:  
Access York - 1-877-464-9675 ext. 73000  
accessyork@york.ca

**Environmental Services**  
**York Region**

**TREE PROTECTION ZONE (TPZ) SIGNAGE**

DATE:	JANUARY 2022	SCALE:	N.T.S.
REV.	X	X	NHF - 401

**NOTES:**  
1. REFER TO YORK REGION STREET TREE AND FOREST PRESERVATION GUIDELINES FOR COMPLETE TREE PRESERVATION REQUIREMENTS.  
2. TPZ SIGNAGE SHALL BE INSTALLED ON AT LEAST TWO SIDES OF THE TPZ BARRIER WITH DISTANCE BETWEEN SIGNS NOT TO EXCEED 10 METRES ON ANY ONE SIDE.

### STAKE DETAIL

**WOOD SCREWS**  
**WOODEN STAKE**  
125 mm MINIMUM

### NOTES

- REFER TO YORK REGION STREET TREE AND FOREST PRESERVATION GUIDELINES FOR COMPLETE TREE PRESERVATION REQUIREMENTS.
- TREE PROTECTION ZONE (TPZ) BARRIERS SHALL BE INSTALLED AT THE OUTER LIMIT OF THE MINIMUM REQUIRED TPZ FOR EACH TREE TO BE PRESERVED AND OR AS DICTATED IN THE APPROVED TREE PROTECTION PLAN BY YORK REGION NATURAL HERITAGE AND FORESTRY.
- TPZ IS DELINEATED AS A RADIUS IN METRES, MEASURED OUTWARD FROM THE BASE OF THE TREE TO BE PROTECTED. THE TPZ RADIUS IS DETERMINED BASED UPON THE DIAMETER AT BREAST HEIGHT (DBH) OF THE TREE'S MAIN STEM. FOR MULTISTEMMED TREES, THE DIAMETER OF THE MAIN STEM OF STEMS OF A TREE ARE MEASURED IN CENTIMETRES AT 30cm ABOVE GRADE LEVEL. THE TPZ FOR ALL TREES 24cm DBH OR LESS IS A MINIMUM OF 2.4m. THE TPZ FOR TREES 25cm OR GREATER IS 10m FOR EVERY CENTIMETRE OF DBH.
- TPZ BARRIERS SHALL PROTECT CONTIGUOUS GROUPS OF TREES WHEREVER POSSIBLE.
- TPZ BARRIERS SHALL BE ESTABLISHED, INSPECTED, AND APPROVED BY YORK REGION OR ITS DESIGNATE PRIOR TO COMMENCEMENT OF ANY SITE DISTURBANCE.
- TPZ BARRIERS SHALL BE INSPECTED BY A QUALIFIED TREE PROFESSIONAL ONCE WEEKLY OR ON A SCHEDULE APPROVED BY THE YORK REGION OR ITS DESIGNATE.
- TPZ BARRIERS SHALL NOT BE MOVED, MODIFIED, OR RELOCATED AT ANY TIME WITHOUT PRIOR APPROVAL OF YORK REGION OR ITS DESIGNATE.

### PLAN VIEW

**TREE**  
**MINIMUM REQUIRED TREE PROTECTION ZONE (TPZ)**  
**TREE PROTECTION ZONE (TPZ) BARRIER**

### CROSS BRACE

**MINIMUM 2x4" WOOD FRAME**  
**MINIMUM 2x4" WOOD (SOLID HOARDING TYPE) ATTACHED WITH WOOD SCREWS**  
**MINIMUM ONE STAKE SUPPORT LEG PER 2400mm OR FRAME SECTION (SEE STAKE DETAIL)**  
**1200 mm MINIMUM**  
**2400 mm MAXIMUM**  
**SIGNAGE (REFER TO DRAWING NHF-401)**  
**ORANGE CONSTRUCTION SAFETY FENCING (FRAMED CONSTRUCTION FENCING TYPE) ATTACHED WITH STAPLES**

**Environmental Services**  
**York Region**

**TREE PROTECTION ZONE (TPZ) BARRIER**

DATE:	JANUARY 2022	SCALE:	N.T.S.
REV.	X	X	NHF - 400

**NOTE: York Region Tree Protection Notes and Details shall apply to all site and Town of East Gwillimbury Right-of-Way trees. All property owners and authorities shall review, approve and be notified of associated works. Refer to SPA Package for Tree Protection and Tree Removal Notes prepared by project Arborist.**

### General

- York Region Street Tree and Forest Preservation Guidelines (the "Guidelines") must be implemented where site disturbance is proposed in the Regional road allowance and any Region-owned street trees and/or natural vegetation is within 10m or less of the limit of proposed site disturbance.
- These Guidelines must also be implemented where site disturbance is proposed outside of the Regional road allowance and Region-owned street trees and/or natural vegetation are situated within 10m of the limit of potential site disturbance and/or where Region-owned street trees and/or natural vegetation are situated more than 10m but may be adversely impacted by the proposed site disturbance.
- All tree preservation measures shall be in accordance with the Guidelines.
- All proposed tree preservation measures must be described in the Arborist Report and shown on the Tree Protection Plan and approved by York Region Environmental Services Department, Natural Heritage and Forestry. Refer to the Guidelines for tree inventory, tree removal compensation and other requirements.
- All tree protection zone barriers shall be installed prior to any site disturbance, including tree removals, and must remain in good repair for the duration of construction.
- At the sole discretion of York Region Natural Heritage and Forestry, any existing trees that die or exhibit a decline in health prior to final acceptance shall be compensated for in accordance with the Guidelines.
- York Region Natural Heritage and Forestry shall be notified when tree protection measures have been installed, and before tree removals, if applicable.

### Tree Protection Zone (TPZ)

- A minimum Tree Protection Zone (TPZ) will be established around every tree to be preserved in accordance with the Guidelines and a York Region-approved Tree Protection Plan.
- No entry or activity shall be permitted within the TPZ without prior written approval of York Region Natural Heritage and Forestry.
- Prohibited activities within the TPZ include but are not limited to installation or attachment of any items to the tree, operation of equipment or machinery, storage of equipment, machinery or materials; access by any persons; placement of trailers, temporary buildings or structures; flushing, storage or dumping of fuels, chemicals or other contaminants; stockpiling of soil, digging, trenching, or excavation; and/or change to existing grade.
- Permitted activities within the TPZ, with prior written approval of York Region Natural Heritage and Forestry and overseen by a qualified tree professional, include but are not limited to: arboriculture activities related to tree protection provisions such as canopy clearance pruning, root-sensitive excavation and root pruning, tree stem protection and other arboricultural maintenance.

### Tree Protection Zone (TPZ) Barrier

- A Tree Protection Zone (TPZ) barrier shall be constructed around the TPZ of every tree to be preserved in accordance with the Guidelines and a York Region-approved Tree Protection Plan. The TPZ barrier shall follow York Region standard drawing Tree Protection Zone (TPZ) Barrier NHF-400.
- Where trees to be protected are located in close proximity to each other, the TPZ barrier shall be installed to protect trees in contiguous groups.
- The TPZ barrier shall be installed prior to commencement of any site disturbance. Site disturbance shall not commence until the installation of all TPZ barriers has been completed and has been verified and approved by York Region or its designate.
- The TPZ barrier shall be constructed on a 2x4 frame. The height of the frame shall measure a minimum of 1.2m (4 feet), and the width of individual frame sections shall not exceed 2.4m (8 feet).
- The frame shall be supported by diagonal 2x4 support legs installed inside the TPZ, secured to the frame using wood screws, and secured to the ground using a wooden stake installed a minimum of 125mm into the ground. A minimum of 1 support leg shall be installed per 2.4m (8 feet) of linear TPZ barrier distance, or per frame section.
- Framed construction fencing is the primary method for TPZ barrier construction. Orange construction safety fencing shall be securely and tightly stapled to the outside of the TPZ barrier frame to construct the framed construction fencing TPZ barrier type. Other fencing materials (e.g., chicken wire, green steel fence, etc.) shall not be used.
- Solid hoarding shall be installed where there is a significant risk of fill or other material being placed against the TPZ barrier, or where heavy machinery is to be operated in close proximity to the TPZ barrier. Plywood or oriented strand board (OSB) sheathing with a minimum thickness of 3/8" shall be affixed using wood screws to the outside of the TPZ barrier frame to construct the solid hoarding TPZ barrier type. Nails, staples or other fasteners shall not be used.
- If required, and as approved in the Arborist Report, all barrier fencing shall be installed using a "no-dig" method as described in the Guidelines.

### Tree Protection Zone (TPZ) Signage

- All Tree Protection Zone (TPZ) signage shall be in accordance with the Guidelines.
- Signage shall follow York Region standard drawing Tree Protection Zone (TPZ) Signage NHF-401 and shall be installed on at least two sides of the TPZ barrier. The distance between individual signs shall not exceed 10m on any one side of the TPZ barrier.

### Maintenance and Inspection

- TPZ barriers shall remain in place and in good working order and appearance throughout the duration of site disturbance until completion of all works.
- TPZ barriers shall not be moved, modified, or relocated at any time without the approval of York Region or its designate.
- A qualified tree professional must be present for all encroachment work within the TPZ, occurring within the TPZ.
- York Region Natural Heritage and Forestry shall be notified with 24 hours of notice prior to work on trees within the TPZ.
- TPZ barriers shall be placed at the limit of encroachment and not be moved at any time during construction unless under the supervision of a qualified tree professional.
- Below-grade encroachment: root sensitive excavation and root pruning shall be undertaken prior to conventional excavation as per standard drawing NHF-403.
- Above-grade encroachment: root zone compaction protection provisions must be followed as per standard drawing NHF-404.
- After the completion of construction, soil compaction and restoration provisions shall be followed when deemed necessary by York Region Natural Heritage and Forestry.

### Pruning

- All pruning work shall be in accordance with the Guidelines and a York Region-approved Tree Protection Plan and Arborist Report.
- No tree branches or tree roots shall be pruned without written approval of York Region or its designate.
- Approved pruning must follow arboriculture best practices and be undertaken by an ISA Certified Arborist or an Ontario College of Trades 444A Arborist or Arborist Apprentice only.
- No other trades personnel are permitted to prune tree branches or tree roots.

### Other

- Other tree preservation measures may be required to be implemented wherever site disturbance is proposed, anticipated or likely to occur within or in close proximity to Tree Protection Zones (TPZs) and trees to be preserved. Other acceptable tree preservation measures are described in the Guidelines.

**Environmental Services**  
**York Region**

**STANDARD TREE PROTECTION NOTES**

DATE:	JANUARY 2022	SCALE:	N.T.S.
REV.	X	X	NHF - 402

**SOURCE & BENCHMARKS**

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PREPARED BY: TROPIC DESIGN

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P03	ISSUED FOR SPA	G.B.	T.R.	2024-01-22
P02	ISSUED FOR CLIENT REVIEW	G.B.	T.R.	2024-01-10
P01	ISSUED FOR CLIENT REVIEW	G.B.	T.R.	2023-07-12

Author	H. CUDMORE	Drafting Check	G. BROUWER	Project Manager	G. BROUWER
Designer	G. BROUWER	Designer Check	T. RADFORD	Project Director	T. RADFORD

Bar is 25mm on original size sheet	0	25mm
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**ASSOCIATION OF LANDSCAPE ARCHITECTS**  
ONTARIO  
MEMBER  
Z-1-D1-ZZ

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**Environmental Services**  
**York Region**

**TROPIC DESIGN**

**PRELIMINARY - NOT FOR CONSTRUCTION**

Client	CONVERTUS YORK BIOFUEL LTD.	Title	LANDSCAPE DETAILS 3 OF 3
Project	CONVERTUS BIOFUEL FACILITY	Project No.	12605345
Date	2023-06-26	Scale	As Noted
Sheet No.	12605345-GHD-10-10-DRG-LA- D503	Size	ARCH D