



Request for Tender

For: Tree Planting, Noelville Landfill

Request # 2017-028

October 5, 2017

Municipality of French River
44 St. Christophe Street
P.O. Box 156
Noelville, ON, P0M 2N0

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Confidentiality Statement

This document, and any attachments there to, regardless of form or medium, is intended only for use by the addressee(s) and may contain legally privileged and/or confidential, copyrighted, trademarked, patented or otherwise restricted information viewable by the intended recipient only. If you are not the intended recipient of this document, please respond to the originator of this message and permanently dispose any copies and any attachments. Thank you for your consideration, Municipality of French River. Please respond to rmartin@frenchriver.ca with any questions or concerns.

Submission Details

Submission Deadlines and Methods

All submissions for responding to this request must be submitted to our office, as stated below, no later than:

Thursday October 19, 2017 -No later than 2:00pm Local

The use of mail for delivery of a tender will be at the risk of the respondent. Submissions sent in electronic format will not be accepted.

Tenders must be submitted in a sealed envelope and shall be clearly marked with the following:

- ☐ Name and address of the Respondent
- ☐ Request Number: 2017 - 028
- ☐ Project Title: Tree Planting, Noelville Landfill

Tender submissions shall include the following:

- ☐ Signed Declaration (Page #8)
- ☐ Schedule "A" – Price, Timeline, and Deliverables (Page #9)

Administration staff will affix on the sealed envelope:

- ☐ Date and time of receipt

Submission Delivery Address, Submission Questions and Clarifications

You may contact the following person if you have any questions or require clarification on any topics covered in this Request for Proposal. Questions shall be received prior to **October 19, 2017**. The delivery address to be used for all submissions is:

Robert Martin

Public Work Superintendent
44 St. Christophe Street
P.O. Box 156
Noelville, ON, P0M 2N0
Tel: 705-898-2294
Fax: 705-898-2181
Email: rmartin@frenchriver.ca

Submission Opening

Staff will review the proposal and the successful candidate will be advised.

Amendment and Withdrawal of Submission

Requests for withdrawal of a submission shall be allowed if the request is made before the closing time for the contract to which it applies. Requests shall be directed to the CAO by letter or in person, by a Senior Official of the company, with a signed withdrawal confirming the details. Telephone requests shall not be considered. The withdrawal of a submission does not disqualify a bidder from submitting another tender on the same contract.

Introduction and Executive Summary

The Municipality of French River (herein after referred to as the Municipality) is requesting tenders for the Storm Water Pond and Screening Berm Construction at the Noelville Landfill. The Storm Water Pond and Screening Berm Construction project includes the following work items:

☐ Item 1: Supply and installation of container, bareroot, and plug stocktrees/seedlings

Details regarding the Items are provided in:

- a. Schedule "B" – Scope of Work
- b. Schedule "C" – Specifications – Tree Planting
- c. Drawing C-01 – Site Plan/Existing Conditions
- d. Drawing C-02 – Proposed Tree Planting Plan
- e. Drawing C-03 – Tree Planting Details

Business Overview & Background

The Municipality of French River is a vibrant, welcoming and family-based community that is committed to positive, sustainable growth. A scenic environment, friendliness of neighbors, diversity of cultures and small town feel make French River the community of choice to live, work, visit and vacation.

Assumptions & Constraints

The Municipality will not be held liable for any errors or omissions in any part of this request. The information contained herein is supplied solely as a guideline for responding vendors. The information is not guaranteed or warranted to be accurate by the Municipality, nor is it necessarily comprehensive or exhaustive. Nothing in this request is intended to relieve vendors from forming their own opinions and conclusions with respect to the matters addressed in this request. Should the Municipality be contacted, no oral explanation or interpretation will modify any of the requirements or provisions of the proposal documents. No addenda to this request will be issued. Should changes be required, this request would be voided and re-released under a new request number.

The successful vendor will provide continuous and adequate protection of all work from damage and will protect the Municipality's property from injury or damage arising from or in connection with this work. The successful vendor will have made good any such damage or injury.

The successful vendor will employ only orderly, competent and skillful employees to ensure that the services are carried out in a confidential and respectable manner.

The successful vendor will ensure all services and products provided in respect to this proposal are in accordance with, and under authorization of all applicable authorities, municipal, provincial and/or federal legislation.

The successful vendor and its employees may have access to information confidential to the Municipality. This information may include, but is not limited to, terms of this agreement, business methods and systems, contractual terms, pricing, personal information, etc. subject to disclosure by force of law. The successful vendor agrees that it and its employees who have access to this information will not, either during the term of the agreement or at any time thereafter, reveal to any third party any of this confidential information or use in any way, whether on the successful vendor's behalf or on behalf of any third party.

The information, reports, documentation, plans, etc. that are a product of this award by the successful vendor, will become the exclusive property of the Municipality of French River.

Terms and Conditions

Relating to the submission document:

- ☐ **Costs, Deliverables & Timelines** – as set out in Schedule "A"
- ☐ **Provincial and Federal Taxes (H.S.T.)** - Tenders shall include applicable H.S.T. taxes. This tax shall be shown separate from the unit price. The respondent shall include with the executed documents, at the time of submission, on company letterhead, notification to the Municipality of their H.S.T. Registration Number (if any).
- ☐ **Declaration** - Signed declaration must be submitted (Page #8)
- ☐ **Specification** – As set out in Schedule "B", Schedule "C" – Specifications – Tree Planting, and Drawings C-01, C-02, and C-03
- ☐ **Insurance** – Vendor shall provide a summary of their company's insurance coverage.
- ☐ **Other** – Vendors are to include an overview of their firm and references for 3 similar projects.

Relating to the Successful respondent:

- ☐ **Contract** - The successful respondent may, within ten (10) days after being advised that they are the successful respondent, execute a contract in duplicate to the Municipality.
- ☐ **Notice of Acceptance** - Notice of acceptance may be made by fax or telephone, with written confirmation of same to follow, to the successful respondent at the number given by the respondent.
- ☐ **Price** - The vendor shall abide by the total price stated in the submission document. No further payment beyond the contract amount will be made for any additional services required to provide a satisfactory deliverable. If additional requirements are requested by the Municipality beyond the original scope of work described in this request, the cost of these services would be negotiated between the Municipality and the company that has been selected to perform the work. Any additional work will only be undertaken based on a request in writing from the Municipality of French River.
- ☐ **Payment** - shall be made upon receipt of invoice following the receipt of the product (net 30 days) with completion of the work to the satisfaction of the Municipality.
- ☐ **Termination** - The Municipality reserves the right to immediately terminate the contract for sufficient cause, including but not limited to such items as non-performance, late deliveries, inferior quality, pricing problems, etc.
- ☐ **Public Record** - Any personal information required on the proposal form is received under the authority of the Municipality of French River. This information will be an integral component of the quote submission. All written proposals received by the Municipality become a public record; once a proposal is accepted by the Municipality, and a contract is signed, all information contained in it is available to the public including personal information.

Selection Criteria

The Municipality of French River is not obligated to award the service contract to the lowest or any firm. The Municipality reserves the right to reject any or all proposals and to waive formalities as the interests of the Municipality may require without stating reasons. The Municipality will not be responsible for any liabilities, costs, expenses, loss or damage incurred, sustained or suffered by any vendor by reason of the acceptance or the non-acceptance by the Municipality of any proposal, or by reason of any delay in the acceptance of a proposal. Any expenses incurred by the vendor in the preparation of the proposal submission are entirely the responsibility of the vendor and will not be charged to the Municipality.

Approval for Release

Reviewed by:

Robert Martin Acting Director of Operations

Date

Marc Gagnon CAO
CAO

Date

Declaration

To: The Municipality of French River

Sirs: I/We the undersigned acknowledge receipt of and having carefully examined the Request for Tender, and "Scope of Work" set forth in Schedule "B" and hereby offer to submit this tender for the supply of in accordance with, and as required by the said documents at the price set forth in Schedule "A" hereto.

I/We understand and accept that the prices set forth in this Tender Form include full compensation to furnish all labour, equipment, materials and supplies and transportation necessary or incidental to completing the work in strict accordance with said documents.

I/We understand that this Agreement terminates in the event that I fail to perform the work to the satisfaction of the Municipality.

I/We understand that the lowest or any tender will not necessarily be accepted and that TO BE CONSIDERED, Tender Forms must be in by the closing date stated herein.

GENERAL CONDITIONS

1. The respondent shall discharge all liabilities incurred by him for labour, materials and services used or reasonably required for use in the performance of this Agreement on the date upon which each becomes due and all liabilities incidental thereto.
2. The respondent understands and agrees that he is not, nor is anyone hired by him, covered by the Municipality under The Workers' Compensation Act, and he shall be responsible for, and shall pay all dues and assessments payable under The Workers' Compensation Act, The Unemployment Insurance Act or any other Act, whether Provincial or Federal, in respect of himself, his employees and operations, and shall, upon request, furnish the Municipality with satisfactory evidence that he has complied with the provisions of any such Act. If he fails to do so, the Municipality shall have the right to withhold payment of such sum or sums of money due to him/her that would be sufficient to cover his/her default and the Municipality shall have the right to same.
3. The respondent covenants and agrees with the Municipality to indemnify it and save it harmless from all claims by third parties arising out of the performance of this Agreement.
4. The price, as proposed by the respondent, includes all limits of the work project.
5. The respondent declares that he has or will pay forthwith all Provincial and Federal Taxes that apply to the said equipment.
6. Notice of acceptance may be made by fax or telephone, with written confirmation of same to follow, to the respondent at the numbers given by the respondent.
7. No facsimile of proposals are acceptable.
8. Any cost incurred due to charges being laid under the Health and Safety Act, Highway Traffic Act or the Ministry of Environment Rules and Regulations shall be the responsibility of the contractor.

Name and Address of the Respondent

Phone:**Fax:****Email:**

The Respondent declares:

- No person, firm or Municipality other than the Respondent, has any interest in this proposal or in the proposed services for this proposal;
- This proposal is made without any connection, comparison of drawings or arrangements with or knowledge of any other Municipality, firm or person making a proposal for the same service and is in all respect fair and without collusion or fraud;
- No member of the staff of the Municipality of French River is, or will become interested directly or indirectly; as a contracting party, partner shareholder, surety or otherwise; or in the performance of the service; or in the supplies, service or business to which it relates; or in any portion of the profits thereof; or in any of the monies to be derived therefrom;
- The content and requirements of this proposal document have been read and understood.
- All prices are quoted in Canadian funds.

All or any proposals not necessarily accepted.

Signed at _____ this ____ day of _____ 2017.

Print Name - Witness_____
Print – Respondent,_____
Title - Respondent_____
Signature - Witness_____
Signature – Respondent

Schedule "A" – Price, Timetable and Deliverables

The undersigned submits this bid in accordance with the Request for Tender dated June 13, 2016. Bids close on **June 29, 2016 at 2:00 PM EST.**

ITEM	Unit	Estimated Quantity	Unit Price	Total
Item 1: Supply and Installation of Container, Bareroot, and Plug Stock Trees/Seedlings				
A. Supply and Installation of 760 Bareroot Stock Tree Seedlings	LS	1		
B. Supply and Installation of 1050 Plug Stock Tree Seedlings	LS	1		
C. Supply and Installation of 64 Container Stock Trees	LS	1		
Item 2: Mobilization/Demobilization and Development/Implementation of Health and Safety Plan				
A. Mobilization/Demobilization	LS	1		
B. Health and Safety Plan	LS	1		
Subtotal				
HST				
Total				

Timetable and Deliverables –

- Specify earliest available on-Site start date from written acceptance of bid price or Purchase Order:
- Completion shall be eight (8) weeks from the time of notice to proceed or based on seasonal tree planting requirements/restrictions and tree/seedling availability.

Schedule "B" – Scope of Work

B.1 GENERAL NOTES

1. All work shall be completed in accordance with the permit conditions and laws in Province of Ontario.
2. The CONTRACTOR shall verify all conditions and measurements at the Site and report to the OWNER any discrepancies or unsatisfactory conditions which may adversely affect the proper completion of the project before proceeding with the work.
3. Utility locates are the responsibility of the CONTRACTOR and shall be carried out prior to execution of any excavation work.
4. Reference elevations shown correspond to action geodetic elevation in meters.
5. Approved shall mean approved in writing by the OWNER or ENGINEER.
6. Existing feature such as monitoring wells and perimeter fences shall be protected by the CONTRACTOR.

B.2 SCOPE OF WORK

The Works to be performed by CONTRACTOR under the Contract shall be as follows:

- 1) As depicted on the following drawings:

C-01	SEPTEMBER 2017	SITE PLAN / EXISTING CONDITIONS
C-02	SEPTEMBER 2017	PROPOSED TREE PLANTING PLAN
C-03	SEPTEMBER 2017	TREE PLANTING DETAILS
- 2) A summary of the construction works to be completed by the CONTRACTOR under the Contract shall be as follows: shall be as follows:

Item 1: Supply and Installation of Bareroot, Plug, and Container Stock Trees/Seedlings

ITEM 1 INCLUDES:

A. Supply and Installation of 760 Bareroot Stock Tree Seedlings

- Item to include Site preparation of the planting areas (e.g., foot screefing to clear vegetation and debris), and the supply and installation of tree seedlings in accordance with Drawings C-01, C-02, and C-03, and Schedule "C" – Specifications – Tree Planting.

B. Supply and Installation of 1050 Plug Stock Tree Seedlings

- Item to include Site preparation of the planting areas (e.g., foot screefing to clear vegetation and debris), and the supply and installation of tree seedlings in

accordance with Drawings C-01, C-02, and C-03, and Schedule “C” – Specifications – Tree Planting.

C. Supply and Installation of 64 Container Stock Trees

- Item to include Site preparation of the planting berms, and the supply, installation, and maintenance of trees in accordance with Drawings C-01, C-02, and C-03, and Schedule “C” – Specifications – Tree Planting.

- **Item 2: Other**

ITEM 2 INCLUDES:

A. Mobilizing and Demobilizing to the Site.

B. Development and implementation of a Site-specific Health and Safety Plan.

B.4 CONSTRUCTION SEQUENCE

1. Obtain necessary permits and approvals.
2. Determine seedling/tree availability from a local supplier or nursery with similar climactic conditions.
3. Verify and locate existing utilities.
4. Complete works as per the plans.
5. Maintain trees/seedlings for the duration of the warranty period.

SCHEDULE C - SPECIFICATIONS

TREE PLANTING

PART 1 GENERAL

1.1 PRICE AND PAYMENT PROCEDURES

- A. Measurement and Payment:
 - 1. Planting New Trees:
 - a. Schedule "A" – Price, Timetable, and Deliverables
 - b. Measurement Basis: By number of planted trees counted in place.
 - c. Payment Basis: Lump Sum based on number of trees specified. Includes supply and installation of trees (container, bareroot, and plug stock); maintenance through specified warranty period.

1.2 REFERENCES

- A. Reference Standards:
 - 1. Canadian Nursery Trade Association (CNTA), Landscape Canada: Guide Specifications for Nursery Stock.
 - 2. International Society of Arboriculture (ISA).
 - 3. Landscape Ontario Horticultural Trades Association (LOHTA).

1.3 COORDINATION

- A. Coordinate tree installation and specified maintenance through warranty period with OWNER/ENGINEER.

1.4 SUBMITTALS

- A. Tree Planting Plan: At least 21 days prior to mobilization, submit Tree Planting Plan that includes:
 - 1. Nursery Plant Lists: Submit nursery products or intended shipping lists stating stock source, botanical name, common name, height, caliper, branched condition, stock type, and species quantity.
 - 2. Mulch, fertilizers (if required), and application rates.
 - 3. Time of year for planting.
 - 4. Methods of preparing planting site and mulching of trees.

1.5 CLOSEOUT SUBMITTALS

- A. Submit list of tree Suppliers (shipping lists).
- B. Warranties: Completed original warranty forms filled out in OWNER's name and registered with Supplier.

1.6 QUALITY ASSURANCE

- A. Plant material shall be No. 1 grade, nursery grown, and meet the requirements of the latest edition of the CNTA Guide Specifications for Nursery Stock for size, height, spread, grading, quality, and method of cultivation.
- B. Plant material shall meet the specifications for size, height, spread, quality and nomenclature as set out in the CNTA Guide Specifications for Nursery Stock.
- C. Plant material shall be true to type and structurally sound. It shall be well branched, healthy, vigorous and free of disease, insect infestation, rodent damage, sun scale, frost cracks and other abrasions or scars to the bark. Trees with dead leaders or leaders which die back during the warranty period shall be replaced at CONTRACTOR's expense and at no additional cost to OWNER.
- D. Do not use plant material showing signs of disease or insect infestation.
- E. Fertilizer (if required), shall be delivered to the Site in standard containers, labeled to indicate its weight, analysis, and manufacturer. Fertilizer shall be stored in such a manner that it is kept dry and its effectiveness is not impaired.
 - 1. Planting fertilizer shall be pelletized bonemeal for container grown stock.
 - 2. Maintenance fertilizer shall be 8-32-16 a complete synthetic slow release fertilizer with maximum 35 percent water soluble nitrogen for maintenance.
- F. Soil: Native material shall be used for backfilling planted trees.
- G. Water: Potable, free of impurities that would inhibit germination and growth.
- H. Maintenance undertaken following planting shall be in accordance with CNTA and LOHTA.
- I. Regulatory Requirements: Comply with regulatory agencies for fertilizer composition.

1.7 QUALIFICATIONS

- A. Fertilizer (if required): Established vendor capable of providing adequate fertilizer quality and quantities.
- B. Nursery: Member of LOHTA. Company specializing in growing nursery stock with minimum 3 years documented experience.
- C. Installer: Member of LOHTA. Company specializing in planting trees and shrubs with minimum 3 years documented experience.
- D. Pruner: Member of LOHTA. Company with minimum 3 years documented experience and qualified by the International Society of Arboriculture as a Certified Tree Worker or Certified Arborist.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver fertilizer (if required) in waterproof bags showing weight, chemical analysis, and name of manufacturer.

- B. Digging, Transporting and Storage of Bare Root and Plug Stock:
 - 1. All bare root material shall be dug and moved while dormant with the major portion of the fibrous root system provided.
 - 2. All material shall be suitably packed for shipment to ensure that injury and root desiccation does not occur. Roots shall be packed in moist straw or another suitable material and wrapped with burlap or heavy paper and kept cool. Plant material shall not be left in direct sunlight.
 - 3. Bare root material shall not be stored anywhere in excess of 24 hours unless properly "heeled in" and kept moist.
- C. Transporting and Storage of Container Grown Stock:
 - 1. Container grown stock shall be shipped in a covered trailer or securely tarped to protect from leaf desiccation during transportation.
 - 2. Soil in container grown stock shall be kept moist. Trees shall be stored in a shaded area.
 - 3. Container stock shall not be lifted or moved by the trunk.
- D. Protect and maintain plant life until planted.
- E. Deliver plant life materials immediately prior to placement. Keep plants moist.
- F. Plant material damaged as a result of delivery, storage, or handling will be rejected.

1.9 AMBIENT CONDITIONS

- A. Planting shall be performed during periods suitable with respect to weather conditions and locally accepted practice.
- B. Do not install plant material when ambient temperatures may drop below 2 degrees C or rise above 32 degrees C.
- C. Do not install plant material when wind velocity exceeds 48 km/h.
- D. Bare root plant material shall not be planted until all Site substrate is free of frost.

1.10 WARRANTY

- A. Container stock, plug stock, and bare root stock shall be guaranteed for a period of 1 year from the date of acceptance by the OWNER/ENGINEER. The OWNER reserves the right to extend the CONTRACTOR's warranty period/responsibilities for an additional year if at the end of the warranty period leaf development and growth is not sufficient to ensure future survival.
- B. During the warranty period, replace 100 percent of material that is dead or not in a satisfactory, healthy growing state or which does not meet the requirements of the specifications, at CONTRACTOR's expense and at no additional cost to OWNER. Any plant or plant materials which are missing at the end of the warranty period will be considered to have died and will require replacement. CONTRACTOR shall be responsible for commencing warranty replacements within 7 working days of receiving notification from OWNER/ENGINEER. CONTRACTOR shall prosecute the Work promptly and diligently.
- C. Replacements shall be plants of the same size and species as shown on the planting schedule, supplied and planted in accordance with Drawings and Specifications.

PART 2 PRODUCTS

2.1 TREES AND SEEDLINGS

- A. Planting Stock:
 - 1. Identification: Label individual plants or each bundle of plants when tied in bundles.
 - 2. Plants: No. 1 Grade conforming to CNTA; well-branched, vigorous and balanced root and top growth; free from disease, injurious insects, mechanical wounds, broken branches, decay, and other defects. Plant material shall be true to type and structurally sound. Tree stock shall be well healthy and vigorous. Trees with dead leaders or leaders which die back during the warranty period shall be replaced at CONTRACTOR's expense and at no additional cost to OWNER.
 - 3. Trees: Furnish with reasonably straight trunks, well balanced tops, and single leader.
 - 4. Deciduous Plants: Furnish in dormant state, except those specified as container grown.
- B. Trees: Species and size identifiable in plant schedule, grown in climatic conditions similar to those in locality of the Works (e.g., source trees and seedlings from local stock).

2.2 PLANTING SOIL MIX

- A. Backfill for planted trees shall be native material.

2.3 SOIL AMENDMENT MATERIALS

- A. Fertilizer (if required):
 - 1. Fertilizer at Time of Planting: Granular, dry, free flowing, free of lumps, consisting of bone meal (pelletized) at a rate of 50 to 200 g per plant relative to the size.
 - 2. Fertilizer (if required) for Plant Maintenance: Containing 50 percent of the elements derived from organic sources of proportion necessary to eliminate any deficiencies of topsoil, as indicated in analysis, in the following proportions:
 - a. Nitrogen: 8 percent.
 - b. Phosphoric Acid: 32 percent.
 - c. Soluble Potash: 16 percent.

2.4 MULCH MATERIALS

- A. Mulching Material: Non-dyed shredded pine mulch (Gro-Bark or equivalent) free of debris and growth or germination inhibiting agents.

2.5 ACCESSORIES

- A. Wrapping Materials: Not required.
- B. Stakes: Not required.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that prepared subsoil is ready to receive work of this Section.

3.2 PREPARATION OF SUBSOIL

- A. Remove foreign materials, rocks, weeds and undesirable plants and their roots. Remove contaminated subsoil.
- B. Dig tree pits a minimum of 300 mm wider than root ball in all directions.
- C. Clear loose debris and vegetation by foot-screefing planting Site for bareroot and plug stock.

3.3 FERTILIZING (IF REQUIRED)

- A. Fertilizing at Time of Planting (if required): Place 50 to 200 g of pelletized bone meal per container stock tree only, relative to the size, into the bottom of the planting pit and Work this thoroughly into lower soil layer.
- B. Fertilizing for Plant Maintenance (if required): Dress the upper planting pit soil surface with fertilizer in accordance with manufacturer's instructions at a rate of 200 kg/ha. Mix this thoroughly into the upper 50 mm of topsoil at the planting site finished surface.

3.4 PLANTING

- A. Plant Inspection:
 - 1. All plant material upon arrival at the Site shall be clearly identified by labels indicating species, size, and Supplier.
 - 2. Trees and shrubs shall not be planted before acceptance and approval by OWNER/ENGINEER after delivery to the Site.
 - 3. Rejected plants shall be removed from the Site within 24 hours of notification.
- B. Layout:
 - 1. CONTRACTOR shall be responsible for locating all underground utilities and services prior to digging.
- C. Excavation of Tree Planting Pits:
 - 1. Container stock trees: Tree pits shall be a minimum of 300 mm wider than the root ball in all directions and not be deeper than the overall height of the root ball; trees shall be installed with the root ball 75 mm above grade if the site planting location is heavy in clay composition; trees shall be placed so that the main lateral branches are oriented away from the roadway. No tree pits shall be left open overnight
 - 2. Bareroot and plug planting holes shall be large enough to accommodate the root system of the tree without j-rooting, bending, folding, or otherwise compressing the root system.
- D. Planting and Watering:
 - 1. The plant material shall be placed in pit in a vertical position to provide the best appearance to adjacent surroundings as directed by ENGINEER. Plants shall be set

- plumb in the centre of the pits and at the same relation to grade as originally grown after settlement has taken place.
 - 2. Shrubs delivered in plastic pots and fiber pots shall have the pot removed prior to planting.
 - 3. Bare root plants shall be placed so that their roots lie in their natural position. Seedlings shall not be J-rooted.
 - 4. The tree pit shall be backfilled with native planting soil 150 mm lifts, which are firmly tamped to mitigate air pockets.
 - 5. Container grown stock: The final backfill layers shall be applied to form a 100 mm high saucer over the entire planting pit area to retain water over the root area.
 - 6. All plant material shall be thoroughly watered within 8 hours of planting. CONTRACTOR shall be responsible for the supply, delivery, and application of the water. Watering shall be CONTRACTOR's responsibility, as per warranty, even during drought conditions.
- E. Make good damage resulting from planting operations at CONTRACTOR's expense and at no additional cost to OWNER.

3.5 MULCHING

- A. Immediately after planting container stock trees, initial watering and fertilizer is completed, place a minimum 100 mm depth of non-dyed shredded pine mulch (GroBark or equivalent) over the planting area soil saucer and include a 150 mm radius beyond the circumference of the planting pit.

3.6 TREE PRUNING

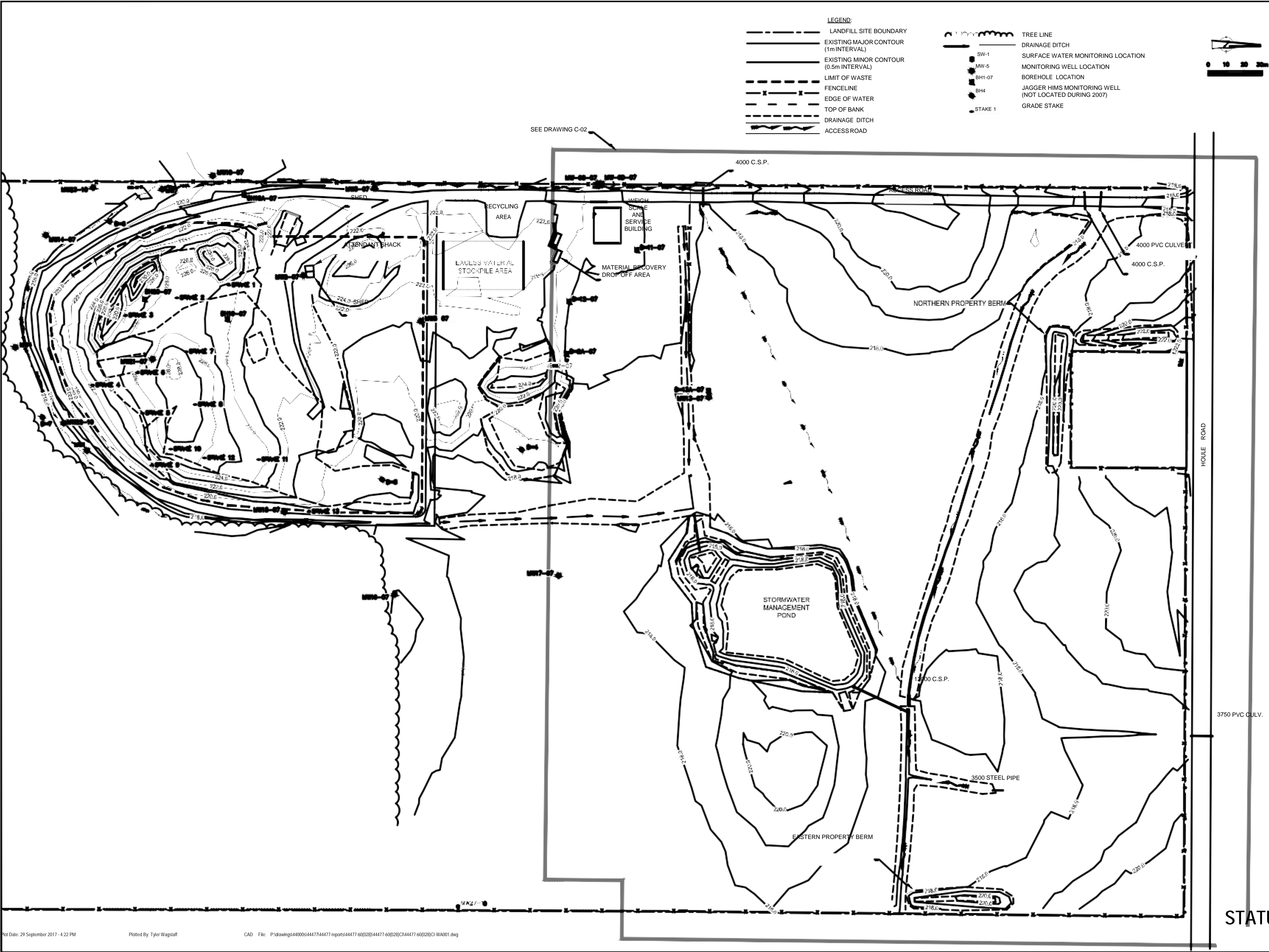
- A. Remove only dead and/or damaged branches, prune trees in accordance with current arboricultural best management practices.
- B. Do not prune tree leader. Trees in such condition will be rejected and ordered removed from the Site.

3.7 LANDSCAPE MAINTENANCE

- A. Advise OWNER/ENGINEER when any maintenance operation is to be undertaken.
- B. Provide maintenance immediately after each portion of planting is completed and continue throughout the period of warranty. Maintenance requirements shall include all procedures consistent with proper horticultural practices to ensure normal, vigorous and healthy growth of all material planted under the Contract. This includes adequate watering, weed control, pruning of dead or broken branches, additional mulch and other repairs as required to ensure a neat and presentable appearance.
- C. Provide disease control for all plant materials during the period of establishment by using standard horticultural practices.
- D. Maintain wrapping, guys, turnbuckles, and stakes. Adjust turnbuckles to maintain suitable guy wire tension. Repair or replace accessories when required.
- E. Replace mulch as necessary during period of establishment to maintain adequate soil moisture.

- F. Maintain plant life for 12 months after planting.
- G. Maintain plant life immediately after placement until plants are well established and exhibit a vigorous growing condition.
- H. Maintenance Data: Maintain all trees and shrubs until the Work has been inspected, approved, and final acceptance has been granted.
 - 1. Water trees and shrubs at regular intervals and when required, and in sufficient quantities to saturate the root system and to ensure proper moisture for continued development.
 - 2. Prune, including the removal of dead or broken branches, and treatment of pruning wounds with approved dressing.
 - 3. Disease and insect control when required. Use chemical methods in accordance with manufacturer's directions. Make good all damage, at CONTRACTOR's expense and at no additional cost to OWNER.
 - 4. At the time of final acceptance, trees and shrubs shall be in healthy, vigorous growing condition.
- I. Maintenance shall include:
 - 1. Watering as needed to properly irrigate plant root zone and to promote plant growth.
 - 2. Pruning, including removal of dead or broken branches; remove clippings and/or trimmings.

END OF SECTION



GHD
651 Colby Drive
Waterloo Ontario N2V 1C2 Canada
T 519 884 0510 F 519 884 0525 W www.ghd.com

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- SOURCE:
- (A) EXISTING CONTOURS: SURVEYED BY CRA LIMITED SURVEY TEAM, OCTOBER 12 2007
 - (B) EXISTING LIMIT OF WASTE AND ASSOCIATED CONTOURS SURVEYED BY CRA LIMITED SURVEY TEAM, SEPTEMBER 17, 2010
 - (C) EXISTING CONTOURS: SURVEYED BY CRA LIMITED SURVEY TEAM, MAY 5, 2013
 - (D) EXISTING CONTOURS: SURVEYED BY CRA LIMITED SURVEY TEAM, DECEMBER 7, 2015
 - (E) EXISTING CONTOURS: SURVEYED BY GHD SURVEY TEAM, DECEMBER 5, 2016.

Client
MUNICIPALITY OF FRENCH RIVER
NOELVILLE LANDFILL, NOELVILLE, ONTARIO

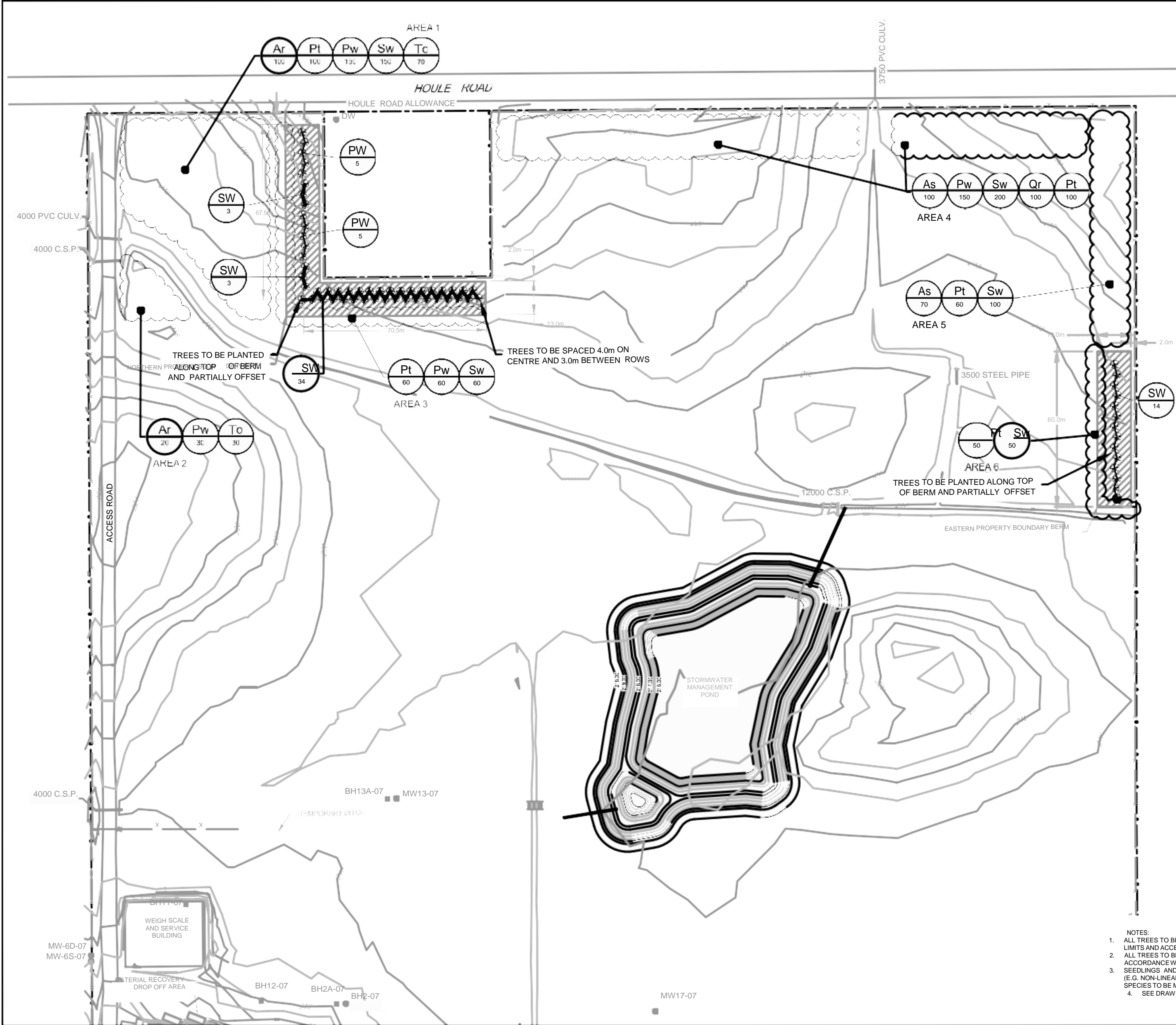
Project
REQUEST FOR TENDER
TREE PLANTING

NO.	ISSUE	Drawn	Approved	Date
Drawn	T. WAGSTAFF	Designer	D. BALL	
Drafting Check		Design Check	J. YARDLEY	
Project Manager	J. YARDLEY	Date	Sep 29, 2017	
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ANSI D		0 20mm		
Project No.		44477-60(028)		

SITE PLAN /
EXISTING CONDITIONS

Sheet No.
C-01

STATUS



LEGEND:

- LANDFILL SITE BOUNDARY
- EXISTING LIMIT OF WASTE
- FENCELINE
- TOPOGRAPHIC CONTOUR
- EDGE OF WATER
- TREE LINE
- MONITORING WELL LOCATION
- SURFACE WATER MONITORING LOCATION
- BOREHOLE LOCATION
- JAGGER HIMS MONITORING WELL (NOT LOCATED DURING 2007)
- PROPOSED PLANTING AREA
- PROPOSED CONIFEROUS PLANTING (CONTAINER STOCK)

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SOURCE:

- (A) EXISTING CONTOURS: SURVEYED BY CRA LIMITED SURVEY TEAM, OCTOBER 12 2007
- (B) EXISTING LIMIT OF WASTE AND ASSOCIATED CONTOURS: SURVEYED BY CRA LIMITED SURVEY TEAM, SEPTEMBER 17, 2010
- (C) EXISTING CONTOURS: SURVEYED BY CRA LIMITED SURVEY TEAM, MAY 5, 2013
- (D) EXISTING CONTOURS: SURVEYED BY CRA LIMITED SURVEY TEAM, DECEMBER 7, 2015
- (E) EXISTING CONTOURS: SURVEYED BY GHD SURVEY TEAM, DECEMBER 5, 2016

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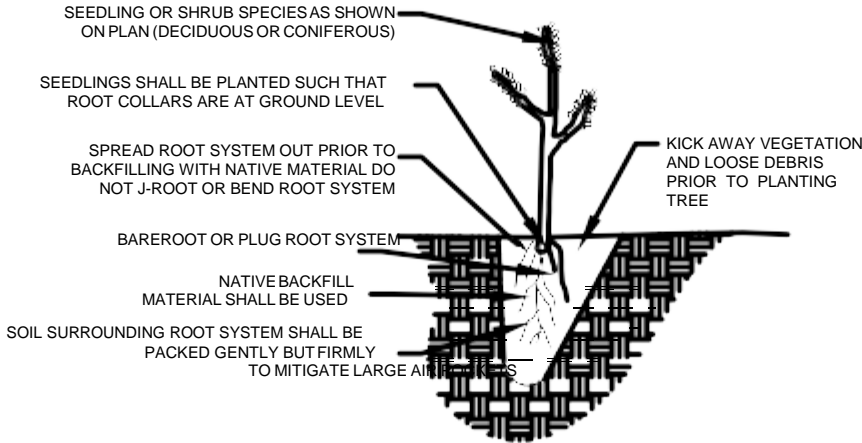
Project
REQUEST FOR TENDER
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Drawn	T. WAGSTAFF	Designer	D. BALL	
Drawing Check		Design Check	J. YARDLEY	
Project Manager	J. YARDLEY	Date	Sep 29, 2017	
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Project No.	44477-60(028)			

PROPOSED TREE PLANTING PLAN

Sheet No.
C-02

Sheet



BAREROOT AND PLUG TREE PLANTING DETAIL
N.T.S.

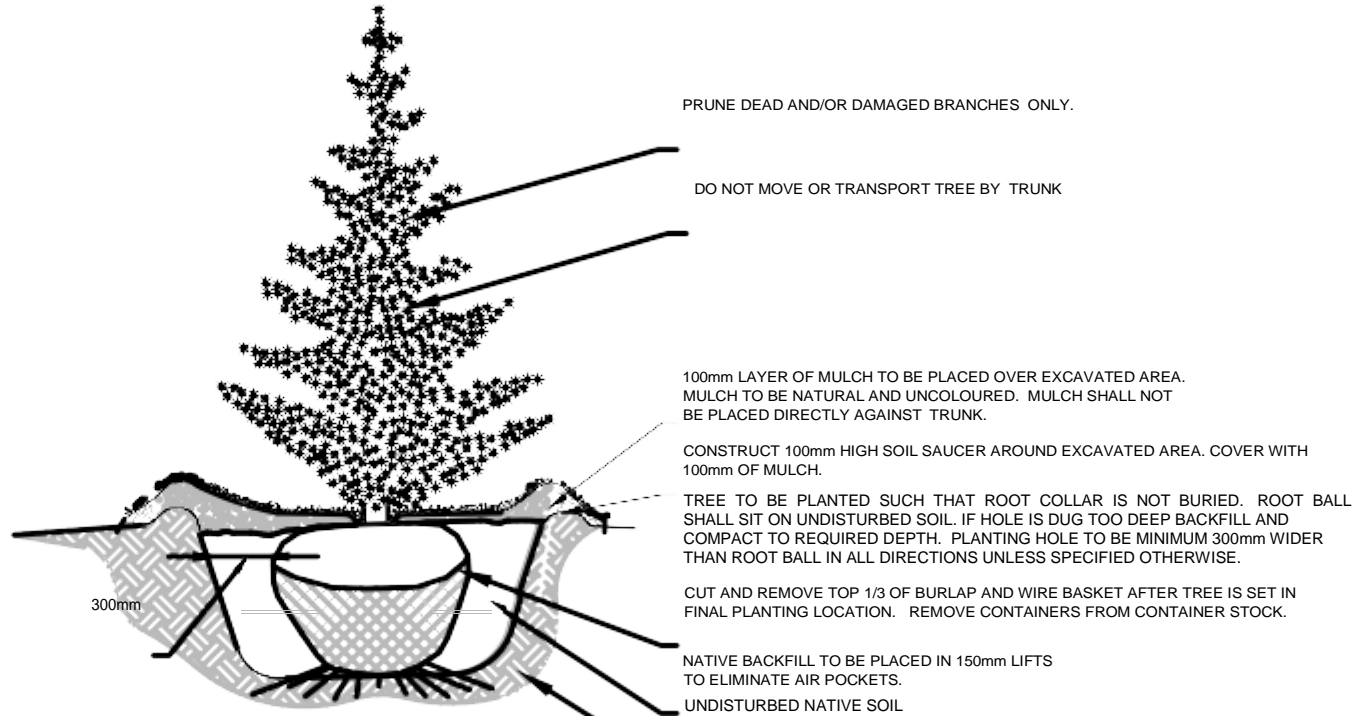
BAREROOT AND PLUG TREE PLANTING NOTES:

1. ALL PLANTING MATERIAL TO BE NO.1 GRADE AND TO THE APPROVAL OF THE OWNER.
2. ALL SPACING AS PER TREE LIST TABLE OR AS SHOWN ON DRAWINGS.
3. ALL TREE STOCK TO BE SOURCED LOCALLY.
4. OWNER TO APPROVE TREE STOCK PRIOR TO PLANTING.
5. STOCK SHALL NOT BE ROW PLANTED (UNLESS SPECIFIED IN DESIGN) WHEREVER POSSIBLE TO ACHIEVE A MORE NATURAL LANDSCAPE APPEARANCE.
6. STOCK TO BE PLANTED UPRIGHT AND NO MORE THAN 10% FROM VERTICAL.
7. STOCK SHALL BE PLANTED SUCH THAT ROOT COLLARS ARE AT GRADE AND ROOT SYSTEMS ARE FULLY BURIED.
8. STOCK ARE NOT TO BE PLANTED NEAR OR IN PONDED/FLOODED AREAS.
9. DO NOT CUT OR DAMAGE LEADER OR TRUNK.
10. SOIL SURROUNDING ROOTS SHALL BE PACKED GENTLY BUT FIRMLY TO MITIGATE LARGE AIR POCKETS. NATIVE BACKFILL MATERIAL SHALL BE USED.
11. ON DAY OF PLANTING, ROOT SYSTEMS OF STOCK SHALL BE KEPT MOIST PRIOR TO PLANTING AND AVOID EXPOSURE OF ROOT SYSTEM TO AIR FOR A LONG DURATION.
12. ALL PLANTING EFFORTS SHALL NOT DISRUPT OR NEGATIVELY IMPACT THE ROOT SYSTEMS OF OTHER ESTABLISHED TREES AND SHRUBS.
13. ALL BAREROOT STOCK PLANTINGS SHOULD BE WATERED THOROUGHLY AT TIME OF PLANTING.
14. ANY ALTERATIONS TO THE PLANTING MATERIALS, DESIGN OR TIMING BY THE CONTRACTOR SHOULD BE COMMUNICATED TO THE OWNER FOR APPROVAL PRIOR TO UNDERTAKING PROPOSED ACTIVITIES.
15. ALL WORKMANSHIP, PLANT MATERIALS AND OTHER MATERIALS TO BE GUARANTEED FOR A PERIOD OF ONE YEAR FOLLOWING THE INITIAL ACCEPTANCE OF THE PROJECT BY THE OWNER.
16. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THE PLANT MATERIALS IN GOOD CONDITIONS FROM THE DATE OF INITIAL PLANTING TO THE END OF THE WARRANTY PERIOD.
17. THE OWNER RESERVES THE RIGHT TO EXTEND THE CONTRACTORS WARRANTY RESPONSIBILITIES FOR AN ADDITIONAL YEAR IF, AT THE END OF THE WARRANTY PERIOD, LEAF DEVELOPMENT AND GROWTH IS NOT SUFFICIENT TO ENSURE FUTURE SURVIVAL.
18. BAREROOT STOCK TO BE PLANTED IN DORMANT STATE. PLUGS TO BE PLANTED MID-APRIL TO MID-MAY OR LATE-AUGUST TO LATE-SEPTEMBER.

BAREROOT STOCK TREE LIST						
SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE (cm, HEIGHT)	STOCK TYPE	QUANTITY	SPACING (m)
Ar	Acer rubrum	Red Maple	30-45	BAREROOT	120	2.4 x 2.4
As	Acer saccharum	Sugar Maple	30-45	BAREROOT	170	2.4 x 2.4
Pt	Populus tremuloides	Trembling Aspen	30-45	BAREROOT	370	2.4 x 2.4
Qr	Quecus rubra	Red Oak	30-45	BAREROOT	100	2.4 x 2.4

PLUG STOCK TREE LIST							
SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE (cm, HEIGHT)	STOCK AGE	STOCK TYPE	QUANTITY	SPACING (m)
Pw	Pinus strobus	Eastern White Pine	MIN. 15	1 + 0	PLUG	390	2.4 x 2.4
Sw	Picea glauca	White Spruce	MIN. 15	1 + 0	PLUG	560	2.4 x 2.4
To	Thuja occidentalis	Eastern White Cedar	MIN. 15	1 + 0	PLUG	100	2.4 x 2.4

CONTAINER STOCK TREE LIST							
SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE (cm, HEIGHT)	CONTAINER SIZE	STOCK TYPE	QUANTITY	SPACING (m)
PW	Pinus strobus	Eastern White Pine	125-150	MIN. #7	POTTED	10	AS SHOWN
SW	Picea glauca	White Spruce	125-150	MIN. #7	POTTED	54	AS SHOWN



CONIFEROUS TREE PLANTING DETAIL
N.T.S.

TREE PLANTING NOTES

1. ALL PLANTING STOCK TO MEET HORTICULTURAL STANDARDS OF THE CANADIAN NURSERY TRADES ASSOCIATION GUIDE SPECIFICATIONS FOR NURSERY STOCK. ALL PLANT MATERIAL TO BE NO. 1 GRADE AND TO THE APPROVAL OF THE OWNER.
2. ALL PLANTING MATERIALS SHALL BE PLANTED IN ACCORDANCE WITH PROPOSED TREE PLATING, PLANTING DETAILS AND SPECIFICATIONS
3. ANY SUBSTITUTIONS OF PLANT MATERIALS OR QUANTITIES REQUIRES WRITTEN APPROVAL OF THE OWNER PRIOR TO USE.
4. ANY DEAD OR DAMAGED BRANCHES OF TREES ARE TO BE PRUNED ACCORDING TO STANDARDS AND TIMING APPROPRIATE TO EACH SPECIES.
5. THE OWNER RESERVES THE RIGHT TO EXTEND CONTRACTORS WARRANTY RESPONSIBILITIES FOR AN ADDITIONAL YEAR IF, AT THE END OF THE INITIAL WARRANTY PERIOD, LEAF DEVELOPMENT AND GROWTH IS NOT SUFFICIENT TO ENSURE FUTURE SURVIVAL.
6. REPORT ALL DISCREPANCIES IN WRITING TO THE OWNER IN A TIMELY FASHION.
7. ALL WORKMANSHIP, PLANT MATERIALS AND OTHER MATERIALS TO BE GUARANTEE FOR A PERIOD OF TWO YEARS FOLLOWING THE DATE OF INITIAL ACCEPTANCE OF THE PROJECT BY THE OWNER.
8. CONTRACTOR SHALL STAKE OUT THE LOCATION OF TREES AND SHRUB PLANTING MODULES FOR FIELD REVIEW WITH THE OWNER PRIOR TO COMMENCING PLANTING WORKS.
9. ALL POTTED STOCK TREES TO HAVE AN EARTH SAUCER AT ITS BASE WITH A DIAMETER AS LARGE AS THE EXCAVATED AREA TO RETAIN WATER.
10. SEASONED SHREDDED PINE BARK MULCH TO BE UNIFORMLY APPLIED TO TREE AND SHRUB PLANTINGS AT A MINIMUM 100mm DEPTH IN A SAUCER SHAPE. REFER TO PLANTING DETAILS. SAMPLES OF MULCH TO BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO PLACEMENT.
11. ALL PLANT MATERIALS ARE TO BE THOROUGHLY WATERED AT TIME OF PLANTING.
12. IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN PLANT MATERIALS IN GOOD CONDITION FROM THE DATE OF INITIAL PLANTING TO THE END OF THE WARRANTY PERIOD.



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TREE PLANTING

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TREE PLANTING
DETAILS

Sheet No.

C-03

Sheet 3 of 3