TREE INVEN	TORY						
Tree No.	Qty.	Botanical Name	Common Name	Size	Condition	Impact/Action	TPZ
T1 - Group	48	Pinus sylvestris	Scots Pine	20-35cm DBH	Good-Fair	Preserve	N/A
T2	1	Pinus sylvestris	Scots Pine	40cm DBH	Good-Fair	Preserve	2.4m
Т3	1	Pinus sylvestris	Scots Pine	28cm DBH	Good	Preserve	1.8m
T4	1	Pinus sylvestris	Scots Pine	17cm DBH	Good	Preserve	1.8m
Т5	1	Pinus sylvestris	Scots Pine	22cm DBH	Good	Preserve	1.8m
Т6	1	Pinus sylvestris	Scots Pine	13cm DBH	Good	Remove - invasive	N/A
Т7	1	Pinus sylvestris	Scots Pine	20cm DBH	Good	Remove - invasive	N/A
Т8	1	Pinus sylvestris	Scots Pine	20cm DBH	Good	Remove - invasive	N/A
Т9	1	Pinus sylvestris	Scots Pine	34cm DBH	Good	Remove - invasive	N/A
T10	1	Pinus sylvestris	Scots Pine	8cm DBH	Good	Remove - invasive	N/A
T11	1	Pinus sylvestris	Scots Pine	16cm DBH	Good	Remove - invasive	N/A
T12	1	Pinus svlvestris	Scots Pine	30cm DBH	Good	Remove - invasive	N/A
T13	1	Populus tremuloides	Trembling Aspen	19cm DBH	Good	Remove	N/A
T14 - Group	11	Pinus sylvestris	Scots Pine	15-30cm DBH	Good	Remove - invasive	N/A
T15	1	Pinus svlvestris	Scots Pine	49cm DBH	Good-Fair	Remove - invasive	N/A
T16	1	Acer negundo	Manitoba Maple	60, 40, 25cm DBH	Fair-Poor	Remove	N/A
T17 - Group	8	Pinus svlvestris	Scots Pine	~10cm DBH suckers	Good	Remove - invasive	N/A
T18 - Group	3	Thuia occidentalis	White Cedar	49. 39. 65cm DBH	Fair	Remove	N/A
T19	1	Pinus svlvestris	Scots Pine	12cm DBH	Good	Remove- invasive	N/A
T20 - Group	6	Pinus svlvestris	Scots Pine	1-1.5m ht suckers	Good	Remove - invasive	N/A
	10	Thuia occidentalis	White Cedar	1m ht	Good	Transplant/Preserve	N/A
	2	Populus tremuloides	Trembling Aspen	5-10cm DBH suckers	Good	Transplant/Preserve	1 2m
	1	Picea glauca	White Spruce	1m ht	Good	Transplant/Preserve	1 2m
	5	Salix spp	Willow Shrubs	5-10cm DBH suckers	Good	Transplant/Preserve	1 2m
	5	Cornus sericea	Red Osier Dogwood	1-1 5m ht	Good	Transplant/Preserve	1 2m
T21 - Group	10	Pinus sylvestris	Scots Pine	1 5-3m ht	Good	Remove - invasive	N/A
	5	Thuia occidentalis	White Cedar	1-2m ht	Good	Transplant/Preserve	1 2m
	2	Picea glauca	White Spruce	1 5-2m ht	Good	Transplant/Preserve	1 2m
	5	Retula nanvrifera	Paper Birch	5cm DBH suckers	Good	Transplant/Preserve	1 2m
	5	Salix spp	Willow Shrubs	5-10cm DBH suckers	Good	Transplant/Preserve	1 2m
Т22	1	Populus tremuloides	Trembling Aspen	10cm DBH	Good	Preserve - adjacent property	1 2m
T23	1	Populus tremuloides	Trembling Aspen	10cm DBH	Good	Preserve - adjacent property	1 2m
T24	1	Populus tremuloides	Trembling Aspen	10cm DBH	Good	Preserve - adjacent property	1 2m
T25	1	Picea glauca	White Spruce	10cm DBH	Good	Preserve - adjacent property	1 2m
T26	1	Picea glauca	White Spruce	10cm DBH	Good	Preserve - adjacent property	1 2m
T27	1	Picea glauca	White Spruce	10cm DBH	Good	Preserve - adjacent property	1 2m
T28	1	Populus tremuloides	Trembling Aspen	10cm DBH	Good	Preserve - adjacent property	1 2m
T29	1	Populus tremuloides	Trembling Aspen	10cm DBH	Good	Preserve - adjacent property	1 2m
T20	1	Populus tremuloides	Trembling Aspen	10cm DBH	Good	Preserve - adjacent property	1.2m
T31	1	Populus tremuloides	Trembling Aspen	10cm DBH	Good	Preserve - adjacent property	1.2m
T32	1	Picea glauca	White Spruce	10cm DBH	Good	Preserve - adjacent property	1.2m
T33	1	Picea glauca	White Spruce	10cm DBH	Good	Preserve - adjacent property	1.2m
T34	1	Picea glauca	White Spruce	10cm DBH	Good	Preserve - adjacent property	1 2m

DBH - Diameter at Breast Height / 1.4m above grade TPZ - Tree Protection Zone offset from trunk

TREE PRESERVATION NOTES

- 1. Tree preservation shall meet all applicable authority requirements.
- The Owner and Contractor shall take every precaution 2. necessary to prevent damage to existing trees and vegetation to be retained.
- Tree protection measure layout and installation shall be reviewed and approved in writing by the Consulting Arborist and Landscape Architect prior to commencement of any site activity.
- Tree protection measures shall remain intact until all site activities, including landscaping, are complete. 5.
- contract details and to the appoval of the Consulting Arborist and Landscape Architect.
- free from excavation, cut and fill and shall not be installed on any trees. No contaminants shall be dumped or flushed
- authority, Consulting Arborist and Landscape Architect.
- Where root systems of protected trees are exposed to adjacent to construction work or damaged, they shall immediately be pruned and backfilled with appropriate material to prevent desiccation.
- Pruning Standard.
- Prior to site disturbance, the Owner and Contracter shall Convention Act.



15-30 cn	า DBH
31-40 cn	ו DBH



Tree Inventory and Preservation Plan

GENERAL NOTES

- 1. Drawing is in metric scale. All dimensions are in millimeters. Do not scale drawings.
- 2. Plus/Minus (+/-) dimensions are for general verification purposes only and are NOT to be used to establish layout of any feature(s), ever.
- 3. The Contractor shall verify all field dimensions onsite during the quotation period. No extras will be allowed for discrepencies between the drawings and the actual site conditions unless reported in writing during the guotation period.
- 4. 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.
- 5. 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.
- 6. Obtain approval of layout from the Landscape Architect and/or Owner's representative prior to commencement.
- 7. All work to be guaranteed for a period of One (1) Year from the documented date of substantial preformance. The Contractor shall notify the Landscape Architect in writing upon completition of work.
- 8. 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.
- 9. 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.
- 10. Construction must conform to all applicable codes and regulations of all authorities having jurisdiction.
- 11. Ensure positive drainage for finished surfaces leaving no pockets or low points for standing water.
- 12. Following planting, watering is recommended to continue throughout the first growing season to ensure plants have best chance of establishment (bi-weekly in the absence of rain).
- 13. 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'.
- 14. 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.
- 15. 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. 16. These notes apply to all parts of this contract.
- General Notes
- 1.Excavate continuous planting bed where perennial plants and woody shrubs are mass planted as shown on
- with 100 depth approved shredded bark mulch. Mulch to be shredded remaining after bark is peeled from approval.





<u>PLANT LIST</u>

ID	Quantity	Common Name	Latin Name	Scheduled Size
TREE	S			
Ar	3	Red Maple	Acer rubrum	70mmCT/WB
Axg	2	Autumn Brilliance® Apple Serviceberry	Amelanchier x grandiflora 'Autumn Brilliance'	125cm ht potted, 3-4 stem, no cros
Вр	15	Paper Birch	Betula papyrifera	3yr Transplant 120-150cm ht
Co	5	Hackberry	Celtis occidentalis	70mm CT/WB
Pg	14	White Spruce	Picea glauca	1800mm ht WB
Ps	3	Eastern White Pine	Pinus strobus	1800mm ht WB
Po	5	American Sycamore	Platanus occidentalis	70mm CT/WB
Qr	2	Northern Red Oak	Quercus rubra	70mm CT/WB
То	7	Eastern Arborvitae	Thuja occidentalis	1500mm ht WB
Tla	5	Boulevard Linden	Tilia americana 'Boulevard'	70mmCT/WB
SHRU	BS, GRAS	SES AND PERENNIALS		
Cs	77	Red Osier Dogwood	Cornus sericea	60cm ht potted
DI	24	Bush Honeysuckle	Diervilla lonicera	50cm ht potted
Jv	12	Eastern Red Cedar	Juniperus virginiana	100cm ht potted
Po-1	21	Ninebark	Physocarpus opulifolius	60cm ht potted
Rt	54	Staghorn Sumac	Rhus typhina	80cm ht potted

Total Trees: 61

See T1.1 for Tree Inventory and the Township of Scugog Tree Replacement Table.





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GENERAL LANDSCAPE NOTES

- 1. 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. 2. Landscape work shall be carried out by experienced professionals with a minimum 5 years proven experience. 3
- 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 confirm to specifications.
- The Contractor shall notify the Landscape Architect upon completion of work to arrange for substantial preformance 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 preformance review. The Contractor shall remove all labels, tags and ties following substantial preformance 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.
- 10. The Contractor shall carry out maintenance of all work immediately following installation until the end of the warrenty period. Maintenance shall include all measures necessary to establish and maintain all plants and assoicated landscape work in an acceptable, vigorous and healthy condition including rodent protection, cultivating, weeding, watering, pruning and maintenance of all accessories. Following planting, watering is recommended to continue throughout the first growing season to ensure plants have best chance of establishment (bi-weekly in the absence of rain).
- 11. The Contractor shall notify the Landscape Architect at the end of the warrenty 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.
- 12. 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 warrenty 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 labratory 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 labratory 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. Topsoil is to have >5% or greater organic matter. 6.
- 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, disconfigurements and injury.
- There shall be no substitutions of plants without prior written approval from the Landscape Architect.
- 4. 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. 2.
- 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 stablized 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 stablization methods shall be such that they do not damage the plants.

<u>MULCH</u>

- Mulch shall be commericially 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.

<u>SOD</u>

- 1. Sod all be designated and disturbed areas.
- 2. Sod shall be certified Number One Grade Natural Grass Nursery Sod Low Native Seed Mix by DLF Pickseed (www.dlfpickseed.ca) or approved equal.
- Approval of site preparation shall be obtained prior to commencement of sod placement.
- 4. Fertilizer shall be applied as identified by growing medium test results
- Sodding shall be carried out during periods when seasonal conditions provide sucessful rooting and continued growth. All sodding shall be conducted when growing media is free of frost, snow and standing water.
- Sod shall be pegged where required to provide secure anchorage. Pegs shall be removed before pedestrian traffic is permitted and after turf is well rooted.
- 7. The Contractor shall install temporary barricades and signage to protect newly sodded areas from damage from pedestrian and vehicular traffic.
- Upon installation the Contractor shall water the sod to saturate the sod and upper 100mm of topsoil. Topsoil is to have >5% or greater organic matter. After the sod and soil have dried sufficiently to prevent damage, it shall be rolled.
- 9. The Contractor shall water sodded areas in sufficent quantities and at freqency required to maintain optimum soil moisture to a depth of 100mm until rooted and at weekly intervals during warrenty growing season.
- 10. The Contractor shall be responsible for mowing the sod areas at least once to a height of 50mm when or before it reaches a height of 75mm. The last mowing shall be within 48 hours of field review for acceptance. 11. Sod shall be sufficiently established so that its roots are growing into the underlying growing medium with no visible seams and free of weeds for acceptance.

<u>SEED</u>

- Seed all designated areas.
- The following seed mixes shall be applied.
- Dry Pond Steep Slope Seed Mix by DFL Pickseed (www.dlfpickseed.ca) or approved equal. Terraseed Application.
- 25% Indiangrass (Sorghastrum nutans)
- 20% Annual Ryegrass (Lolium multiforum) - 18% Little Bluestem (Schizachyrium scoparium)
- 16% Canada Wild Rye (Elymus Canadensis)
- 9% Virgina Wild Rye (Elymus virginicus)
- 4% Switchgrass (Panicum virgatum)
- 2% Autumn Bentgrass (Agrostis perennans)
- 2% Ticklegrass (Agrostic scabra)
- 2% Partridge Pea (Chamaecrista fasciculate) - 2% Black Eyed Susan (Rudbeckia hirta)
- Seed shall be applied at a rate of 34kg/Ha (30lbs/acre) with a spot application of 1kg/100m2 (2.25lbs/1000ft2)
- Eastern Ecostype Seed Mix by DFL Pickseed or approved equal. Hydroseed application as shown on drawing.
- 30% Little Bluestem (Andropogon scoparius)
- 25% Virginia Wild Rye (Elymus virginicus) - 18% Indiangrass (Sorghastrum nutans)
- 15% Big Bluestem (Andropogon gerardii)
- 6% Switchgrass (Panicum virgatum)
- 1% Autumn Bluegrass (Agrostis perennans) - Seed shall be applied at a rate of 20-25 kg/Ha
- Percentage specified for each species is the target for ground cover. All seed shall comply with the Canada Seeds Act and Seeds Regulations.
- Approval of site preparation shall be obtained prior to commencement of seeding.
- Fertilizer shall be applied as identified by growing medium test results.
- Seeding shall be carried out during periods when seasonal conditions provide sucessful germination and continued growth. All seeding shall be conducted during calm weather when growing media is free of frost, snow and standing water.
- The Contractor shall install temporary barricades and signage to protect newly seeded areas from damage from pedestrian and vehicular traffic.
- The Contractor shall water seeded areas to maintain optimal soil moisture level for germination and continued growth. Control watering to prevent washouts.
- Areas seeded in the fall will be inspected for acceptance the following spring, one month after the start of growing season.
- 10. The Contractor shall repair and resseed dead or bare spots to allow establishment before final acceptance.
- 11. The Contractor shall be responsible for mowing the turf areas twice to the sight of 50mm when or before it reaches a height of 70mm. The last mowing shall be within 48 hours of the field review for final acceptance.
- 12. Turf shall be uniformly established in sufficent density such that no surface growing media shall be visible when mown to a height of 50mm for final acceptance.

WATERING

- 1. 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 warrenty to ensure plants have best chance of establishment.
 - Watering shall supplement natural precipitation to ensure soil moisture content is maintained at 50 percent to 100 percent field capacity. 4. 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.
 - 5. The Contractor shall water all confierous 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 warrenty period.
 - 7. 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. 9.
- General Notes 1. Install a minimum 5 cu m of new growing medium per tree. Available soil volume per tree should total 15 cu m, A Test which can include shared, offsite, and adjacent soil areas. 2. Max depth of planting pit should equal the rootball depth + 150mm مریم مرکم 2500 3. Tree stakes should be placed parallel to the prevailing Egy wind Wooden stakes to be removed after one full growing Ľ season 2 A A DO NOT drive stakes through rootball when installing Set tree so base of trunk flare is level with finished grade. Soil should be removed from the top of the rootball to expose trunk flare (often the trunk flare is buried due to typical nursery practices) 22 ふくちょう ふくざい ð 1500 <u>⊤'</u>min TYPE 2: Tree located in TYPE 1: Tree located in Planting Area Lawn Area Coniferous Tree Detail Scale: 1:25 General Notes 1. Planting mix: 2/3 native soil from the tree pit excavation or stockpile and 1/3 commerically prepared triple mix. Add approved mycorrihizal inculant in quantities recommended by supplier 2. All proposed planting areas shall be tested for drainage, soil quality and pH. Poor soil shall be amended or replaced as required to meet the following requirements: 50-60% sand, 20-40% silt, 6-10% clay, 2-5% organic matter, and pH between 6.5-7.5. 3. Max depth of planting pit should equal the rootball depth + 150mm 4. Tree stakes should be placed parrallel to the prevailing wind . Wooden stakes to be removed after one full growing season 6. DO NOT drive stakes through rootball when installing 7. Set tree so base of trunk flare is level with finished grade. Soil should be removed from the top of the rootball to expose trunk 500 flare (often the trunk flare is buried due to typical nursery practices) 8. Water thoroughly to maintian vigorous, healthy growth from time of delivery installation to end of warrenty period. Approx. 90 litres every 7-10 days to supplement seasonal precipitation. 9. Excavate and prepare tree pit planting mix continuously in boulevards less than 1.5m wide and min. 1m on either side of root ball along the length of boulevard. S_ (S & C & 150 typ 1500 min

Deciduous Tree Planting Scale: 1:25

2

Legend

Key Plan:

-150mm depth lawn growing medium in turf areas

-Arbourtie or approved equivalent -50mm dia. pressure treated wood stakes, min 2m long. -75mm depth organic mulch ring , minimum 1m diameter.

-Ensure trunk flare is visible above soil level.

-Follow supply nursery's instructions for the removal of burlap, rope and wire baskets.

-Growing medium to meet OPSS 802, 300mm depth typical. Install in 200mm lifts, tamp between lifts.

Scarify subsoil to a minimum depth of 300mm before installing new growing medium.

-Tamp growing medium below rootball before planting to prevent future settlement.

-Crown shall have an even form, single leader, and strong, well spaced branch attachments. Prune only to remove dead, damaged or broken branches. Pruning shall be in accordance with ANSI A300 standard practices for pruning. Do not cut leader.

150mm depth lawn growing medium in turf areas

Arbourtie or approved equivalent

-50mm dia. pressure treated wood stakes, min 2m long. -75mm depth organic mulch ring (keep back from trunk) , minimum 1m diameter.

-Ensure trunk flare is visible above soil level.

Remove all rope and top 1/3 of burlap and wire baskets.

-Growing medium as specifed. Install in 200mm lifts, tamp between lifts. -Scarify subsoil to a minimum depth of 300mm before

installing new growing medium. Ensure subsoil has sufficent drainage to promote healthy root growth.

Tamp growing medium below rootball before planting to prevent future settlement and eliminate air pockets.

23.05.03 Disclaimer: All drawing information shall be checked and verified and any discrepancies reported in writing to the Designer before commencing any affected work. This drawing shall be used only for the project named on this drawing and for reference

Issued for Re-submission

Issued For Review

Issued For Review

Issued for Review

Description

ALA BI

Issue / Revision Schedule

23.05.03 GB

22.04.08 GB

22.03.31 GB

GF

22.03.24

Date

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Client:

0507 Industries

Project:

8 Easy Street

Port Perry, ON

Drawing Title:

Landscape Details

Designed By: GB Project #: 22.16 Drawn By: HC Drawing #: Approved By: GB Date: 21/03/11

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