



Arborist Report + Tree Preservation Plan

Prepared for:
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Site Address:
705 Nashville Rd.
Vaughan ON L4H 3N5
Same as above
Modified:
October 6, 2019

Prepared by:
Mark Ellis



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Summary

This arborist report is in regard to the demolition and construction of a new house and garage at 705 Nashville Rd. Vaughan ON. Trees were inventoried and assessed for health and preservation measures.

Introduction & Assignment (Nature of Work)

Cinerea Urban Forestry Services was commissioned by Mario Saggio to complete an Arborist Report and tree preservation plan. This was for the proposed demolition and construction of a new house and garage at 705 Nashville Rd. Vaughan ON.

The full minimum tree protection zone will be provided for all trees to be retained 20 cm dbh and greater therefore minimal injury if any will occur to preserved trees. Any potential injury to trees would be to roots found outside the minimum tree protection zones.

An inventory and general health assessment was performed for all trees located on and within 6 metres of the property line.

Assignment Limitations

Recommendations for tree preservation have been based upon the client supplied drawings.

This Arborist Report was compiled from field data collected from the ground. A basic visual assessment of the trees was performed. No level of ISA Tree Risk Assessment was performed. More data may be obtained regarding risk through a basic or advanced ISA Tree Risk Assessment. As trees change over time, this report noting conditions of health and structure of trees on site shall be void after a period of 1 year.

The opinions conveyed within this report are those of Mark Ellis, ISA BCMA ON-1686BM. Another arborist or forester may look at the same tree and have different opinions. Thus; opinions may be subjective.

Arborist recommendations have been supplied, however, due to varying ownership, recommendations may not be able to be carried out

Methods

- Tools used to assess the trees included a clinometer, metric measuring tape, metric measuring wheel, binoculars
- City trees of any diameter and all private trees measuring 15 cm or greater were recorded for the purposes of this report; only private trees measuring 20 cm or greater at the base are subject the City of Vaughan's private tree bylaw
- All diameters of trees were measured at a height of 1.4 metres for MTPZ purposes
- The MTPZ radius is measured from the outside edge of the tree base
- Photos were taken of each tree inventoried and are included

Observations

- Field work was completed by Mark Ellis on October 2, 2019.
- Weather at time of assessment was raining and 10°C
- Trees #4 and 9 on neighbouring property
- Tree # 17 shared with 695 Nashville Rd.

Tree Replacement Information

6 trees are required to be replanted at site due to the arborist recommendations of tree removal.

Coniferous (softwood) trees must meet a minimum height of 200 cm.

Deciduous (hardwood) trees must have a minimum caliper diameter of 50 mm

A replanting plan shall be prepared by Cinerea Urban Forestry Services upon finalization of amount of trees to be replanted at site.

Structural roots should be at or slightly above the surrounding grade. The root flare will not always be visible on young trees.

Apply a maximum of 2 to 3 inches (5–7.5 cm) of mulch over the root ball and backfill. Keep mulch away from trunk base.

Remove burlap and twine from top of root ball. Remove all synthetic materials.

Sites with high-quality soil do not require backfill amendment. Composted organic matter may be added on sites with poor-quality soil.

A low-profile basket will not interfere with future root growth. Cut one or two rings of wire off of a traditional wire basket.

Set root ball on undisturbed soil to prevent settling.

Drive stakes into undisturbed soil.

Remove or reduce the length of upright branches competing with the leader, and those with included bark.

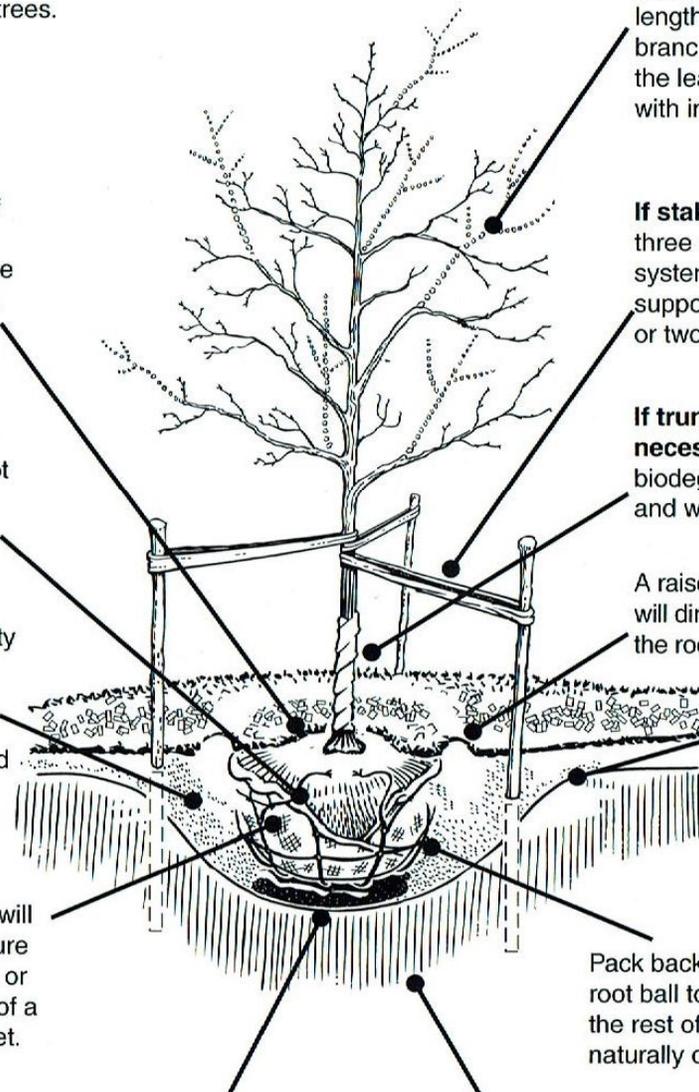
If staking is necessary, three stakes or underground systems provide optimum support. Remove after one or two years.

If trunk wrapping is necessary, use biodegradable materials and wrap from the bottom.

A raised ring of soil (optional) will direct irrigation water into the root ball.

Width of top of planting hole is at least 2 (preferably 3) times root ball diameter in compacted soil.

Pack backfill around base of root ball to stabilize. Allow the rest of backfill to settle naturally or tamp lightly.



Pruning & Root Pruning Plan

No above or below ground pruning is required to facilitate construction at 705 Nashville Rd.

Arborist Recommendations

- Install hoarding as per the City of Vaughan Urban Forestry specification and as per the Tree Preservation Plan
- Remove trees # 2, 4, 9, 16, 17
- Submit arborist report and tree preservation plan in person to City of Vaughan, Joint Operations Centre, 2800 Rutherford Rd. Vaughan ON L4K 2N9.

Construction Notes

No construction materials or debris are to be stored within the Minimum Tree Protection Zones of any tree as noted on the Tree Protection Plan. All hoarding is to remain in place for duration of the construction. Hoarding is to be removed once construction is completed.

Conclusion

The scope of construction is straightforward. All trees recommended for removal are in declining health and or structure/overall condition. It is a proactive measure to remove all of the noted trees independent of construction. With the removal of the noted trees, the MTPZs of any trees over 20 cm at the base will not be infringed upon. Due to this, no root pruning, hand digging or AirSpading will be required by an ISA Certified Arborist.

Six trees are required to be replanted at the property due to the proposed removal of the trees within this arborist report. Cinerea Urban Forestry Services shall prepare a replanting plan in conjunction with the client should they wish, to supplement this arborist report and tree preservation plan.

Tree # 4, at 715 Nashville Rd. is 100% dead and should be removed immediately.

Tree protection fencing is to be installed as per the tree protection plan. It is very important to construct tree protection fencing as per the specification and for it to be rigid. All too often tree protection fencing is just slapped together and does not meet the minimum specification.

Should all tree protection measures and tree protection plan be followed, no injury shall occur within the MTPZ of any retained trees on site. All documentation shall be submitted to the City of Vaughan, Joint Operations Centre, 2800 Rutherford Rd. Vaughan ON L4K 2N9.

Appendix 1 – Tree Inventory

Tree #	Common Name	Latin	Diameter at Base	Diameter @ 1.4 m	City of Vaughan Minimum Tree	Height (m)	Crown Spread (m)	Ownership	Health	Structure	Overall Condition	Replacement Trees reqd	Address	Location	Comments	Arborist Recommendation
1	Manitoba Maple	<i>Acer negundo</i>	70	48	3	8	9	City	Fair	Poor	Fair-Poor		715 Nashville Rd.	4.3 metres south of centreline of ditch 0.4 metres west of east property line	3 stems at 1.4 metres in height 35, 37, 48 cm dbh	Tree protection fencing
2	Scots Pine	<i>Pinus sylvestris</i>	36	33	2.4	9	3	Private	Fair-Poor	Poor	Poor	2	705 Nashville Rd.	8.8 metres south of centreline of ditch 0.5 metres east of west property line		Remove tree
3	Eastern White Pine	<i>Pinus strobus</i>	39	33	2.4	22	3	Private	Fair	Poor	Fair-Poor		705 Nashville Rd.	20.5 metres south of centre line of ditch 0.5 metres east of west property line	Very small crown compared to height and size of tree	Consider removal Tree protection fencing
4	Red Pine	<i>Pinus resinosa</i>	55	45	3	19	0	Private	Dead	Dead	Dead	0	715 Nashville Rd.	32.7 metres south of centre line of ditch 2.3 metres west of east property line		Remove tree
5	Manitoba Maple	<i>Acer negundo</i>	50	44	3	12	10	Private	Fair	Poor	Poor		705 Nashville Rd.	0.3 metres south of south property line 8.9 metres east of west property line	Main trunk split and has fallen but still attached	Existing chain link fence acting as tree protection fencing
6	Siberian Elm	<i>Ulmus pumila</i>	37	28	1.8	18	7	Private	Good	Fair	Fair		715 Nashville Rd.	On south property line 1.4 metres west of east property line	Tag # 354	Existing chain link fence acting as tree protection fencing

7	Manitoba Maple	<i>Acer negundo</i>	37	27	1.8	10	9	Private	Good	Poor	Fair-Poor	715 Nashville Rd.	On south property line 0.4 metres west of east property line	Tag # 355	Tree protection fencing
8	Manitoba Maple	<i>Acer negundo</i>	26	21	1.8	7	9	Private	Fair	Poor	Poor	705 Nashville Rd.	On south property line 1.2 metres east of west property line		Existing chain link fence acting as tree protection fencing
9	Manitoba Maple	<i>Acer negundo</i>	27	18	1.8	6	0	Private	Dead	Dead	Dead	Lot 25, Concession 8	2 metres south of south property line of 705 Nashville Rd. 5 metres east of west property line of 705 Nashville Rd.	Tag # 357	Remove tree
10	Manitoba Maple	<i>Acer negundo</i>	23	18	1.8	8	3	Private	Fair	Poor	Fair-Poor	Lot 25, Concession 8	1.4 metres south of south property line of 705 Nashville Rd. 10.2 metres east of west property line of 705 Nashville Rd.	Foliage on north side of tree only	Tree protection fencing
11	Manitoba Maple	<i>Acer negundo</i>	36	18	2.4	6	4	Private	Fair	Poor	Poor	Lot 25, Concession 8	2.3 metres south of south property line of 705 Nashville Rd. 16.4 metres east of west property line of 705 Nashville Rd.	2 stems at 1.4 metres 13, 18 cm dbh	Tree protection fencing
12	Manitoba Maple	<i>Acer negundo</i>	28	24	1.8	7	7	Private	Fair	Poor	Poor	Lot 25, Concession 8	2 metres south of south property line of 705 Nashville Rd. 17.3 metres east of west property line of 705 Nashville Rd.	Tag # 360	Tree protection fencing
13	Manitoba Maple	<i>Acer negundo</i>	34	25	1.8	7	3.5	Private	Fair	Poor	Poor	Lot 25, Concession 8	2.1 metres south of south property line of 705 Nashville Rd. 18 metres east of west property line		Tree protection fencing

Appendix 2 – Tree Preservation Plan (Preview) – Print to 24"x36"

**ATTACHED AS A SEPARATE DOCUMENT.
MUST SUPPLEMENT THIS REPORT**

Appendix 3 – Photos (Trees Are Centred)



Fig. 2 – Tree # 2 – *Pinus sylvestris* - Remove



02/10/2019 09:04

Vaughan, Ontario





Fig. 3 – Tree # 3 – *Pinus strobus* – Tree Protection Fencing

02/10/2019 09:05

Vaughan, Ontario





Fig. 4 – Tree # 4 – *Pinus resinosa* – 715 Nashville Rd. - Remove



Fig. 5 – Tree # 5 – *Acer negundo*

02/10/2019 09:31

Vaughan, Ontario





Fig 6 - Tree # 6 - *Ulmus pumila*

02/10/2019 09:42

Vaughan, Ontario









Fig. 9 – Tree # 9 – *Acer negundo* – Remove Tree



Fig. 10 – Tree # 10 – *Acer negundo* - Tree Protection Fencing



Fig. 11 – Tree # 11 – *Acer negundo* – Tree Protection Fencing



Fig. 12 – Tree # 12 – *Acer negundo* – Tree Protection Fencing



Fig 13 – Tree # 13 – *Acer negundo* – Tree Protection Fencing



Fig. 14 – Tree # 14 – *Acer negundo* – Tree Protection Fencing





Fig. 15 – Tree # 15 – *Ulmus pumila* – Tree Protection Fencing

Fig. 16 – Tree # 16 – *Prunus avium* - Remove



Fig. 17 – Tree # 17 – *Acer negundo* - Remove



Fig. 18 – Tree # 18 – *Thuja occidentalis* – Tree Protection Fencing



Fig. 19 – Tree # 19 – *Picea pungens* – Tree Protection Fencing

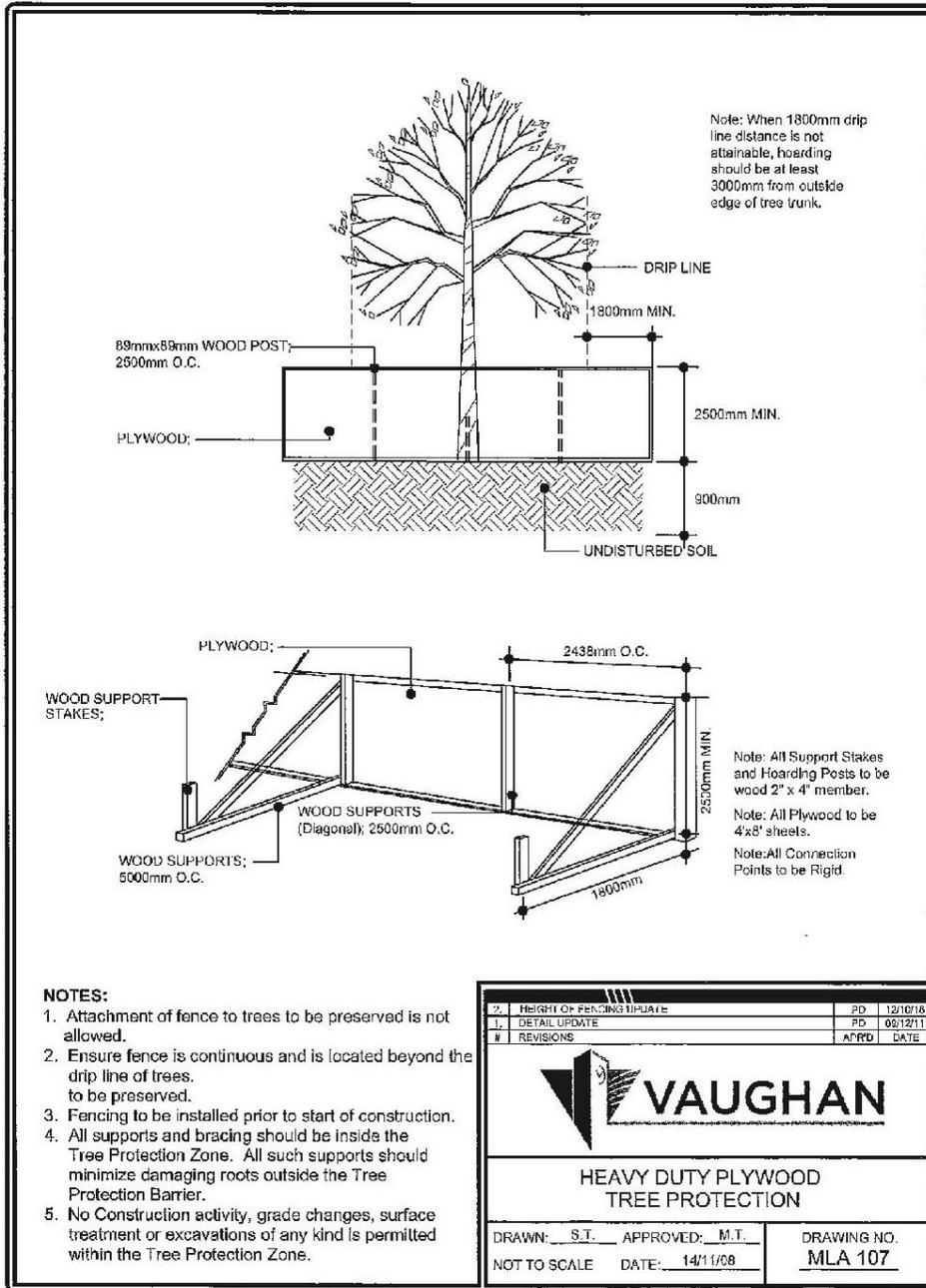


Fig 20 – Tree # 20 – *Picea pungens* – Tree Protection Fencing



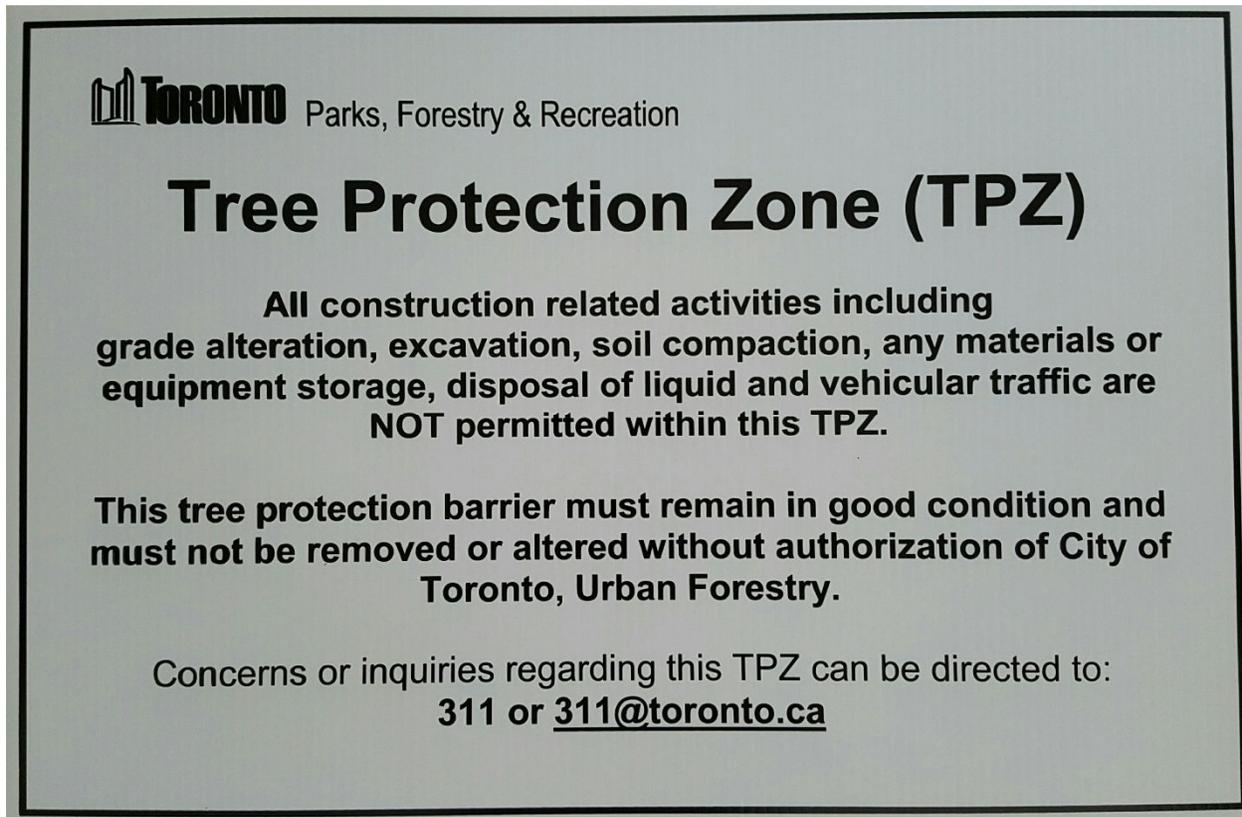
Appendix 4 - Hoarding (Temporary Tree Protection Fencing) Details

Figure 1 - Standard Hoarding Detail



Appendix 5 - Tree Protection Sign

A sign resembling the sign below shall be mounted on in a conspicuous area on all sides of the Tree Protection Fencing. This is a sample only.





Appendix 6 - References

1. A silvicultural guide to managing southern Ontario forests. (2000). [Toronto]: [Ministry of Natural Resources].
2. Anderson, H. and Corlett, A. (2004). *Ontario tree marking guide*. [Toronto]: Ministry of Natural Resources.
3. Dunster, J., Smiley, E., Matheny, N. and Lilly, S. (n.d.). *Tree risk assessment manual*.
4. Fite, K. and Smiley, E. (2008). *Best management practices - Managing trees during construction*. Champaign, IL: International Society of Arboriculture.
5. Gilman, E. (2002). *Best management practices – Tree Pruning*. Champaign, IL: International Society of Arboriculture.
6. Matheny, N. and Clark, J. (2008). *Municipal specialist certification study guide*. Champaign, IL: International Society of Arboriculture.
7. Lily, Sharon. *Glossary Of Arboricultural Terms*. 1st ed. Champaign: International Society of Arboriculture, 2015. Print.
8. Vaughan.ca. (2018). *Tree Bylaws and Policies*. [online] Available at: https://www.vaughan.ca/services/residential/parks_forestry_operations/forestry_services/tree_bylaws/Pages/default.aspx [Accessed 1 Oct. 2019].

Appendix 7 - Arborist Qualifications



Mark Ellis is the owner/operator at Cinerea Urban Forestry Services. He has previously held positions as Senior Consulting Arborist with Davey Resource Group, Arborist Foreman with Regional Municipality of Wood Buffalo and Forest Health Care with the City of Toronto. He is one of only five persons in Canada that hold both the ISA Board Certified Master Arborist & ISA Certified Arborist Municipal Specialist certifications. Mark has over 10 years of experience working for not-for-profit corporations, private companies, and municipalities in arboriculture, forestry and urban forestry. His experience includes planning the urban forest, tree climbing and removal, integrated pest management, surveying for destructive forest pests, and GIS based mapping to name a few. More recently, he has been involved in developing an Urban Forest Master Plan for the Regional Municipality of Wood Buffalo, post-failure investigations, and providing expert witness testimony in court cases.

Education

- Sir Sandford Fleming – Forest Technician Diploma

Industry Related Certifications

- ISA Board Certified Master Arborist Municipal Specialist # ON-1686BM (2016-2022)
- ISA Tree Risk Assessment Qualification (TRAQ) (2013-2023)
- MOECC Butternut Health Assessor #532
- Ontario Certified Seed Collector #383
- Ontario MOE Pesticide License #046418 (Forestry, Industrial Vegetation, & Landscape Exterminator)
- OFSWA Chainsaw Operator Certification
- Arboriculture Canada – Technical Tree Falling & Cutting
- Certified Ontario Tree Marking Course
- SP-102 Forest Industry Wildland Firefighting

Member

- International Society of Arboriculture Member #221000
- International Society of Arboriculture Ontario Chapter Member #221000



INTERNATIONAL SOCIETY OF ARBORICULTURE
CERTIFIED ARBORIST MUNICIPAL SPECIALIST™

Mark Matthew Ellis

Having successfully completed the requirements set by the International Society of Arboriculture, the above named is hereby recognized as an ISA Certified Arborist Municipal Specialist®



Luana Vargas

Luana Vargas
Director of Credentialing Services
International Society of Arboriculture

Caitlyn Polihhan

Caitlyn Polihhan
Executive Director
International Society of Arboriculture

ON-1686BM
Certification Number

15 Jul 2016
Certified Since

30 Jun 2022
Expiration Date



INTERNATIONAL SOCIETY OF ARBORICULTURE
BOARD CERTIFIED MASTER ARBORIST™

Mark Matthew Ellis

Having successfully completed the requirements set by the International Society of Arboriculture, the above named is hereby recognized as an ISA Board Certified Master Arborist®



Luana Vargas

Luana Vargas
Director of Credentialing Services
International Society of Arboriculture

Caitlyn Pollihan

Caitlyn Pollihan
Executive Director
International Society of Arboriculture

ON-1686BM
Certification Number

2 Apr 2016
Certified Since

30 Jun 2022
Expiration Date