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Steve Crane
S M Crane General Contractor
19741 53rd Avenue NE
Lake Forest Park, WA 98155

September 3, 2019

Dear Mr. Crane,

Property located at 4611 NE 178th Street in Lake Forest Park Washington contains a single-family home under construction on the property. Mature trees are present there and questions regarding excavation near mature trees arose.

On August 30, 2019 Kurt Fickeisen from Symbiosis Tree Care came to the 4611-property to observe excavation under the canopies of a Douglas fir (*Pseudotsuga menziesii*), a big leaf maple (*Acer macrophyllum*), and a black locust (*Robinia pseudoacasia*).

This report provides information on observations made during vector truck excavation under tree canopies and a description of found roots and required root pruning.

Recommendation for additional work requirements is provided. Please see Assumptions and Limitations for this report (Assumptions and Limitations).

Summary

Observations of excavation under the canopy of a 52-inch diameter Douglas fir took place on August 30, 2019. While some roots measuring 1-inches diameter were cut, no larger roots were cut. The Douglas fir remains in good condition

Continued excavation did not expose an old sewer and water line, so additional exploration with cameras is required to locate a more accurate route used by sewers and ensure significant roots are protected during replacement of the water/sewer line.

Observations

On August 30th, 2019 excavation under the canopy of a 52-inch diameter Douglas fir was performed due to requirements for a new sewer and water line to a house currently under construction.

Excavation was performed with a water and a vector truck and was observed by Kurt Fickeisen of Symbiosis Tree Care (Figure-1, Photo-1).

During the excavation process, structural roots with diameters greater than 3inches were encountered (Photo-2), but fine roots were also exposed (Photo-3).

Root Pruning

Based on a need to locate preexisting sewer and water lines, some root pruning took place.

Roots measuring 1-inch diameter and less were cut cleanly with loppers. No roots of larger diameter took place.

Discussion

Root exploration with a vactor truck and performed on August 30th, 2019 failed to locate pipes that were reported to exist.

Further exploration of sewer lines with cameras may provide superior information on pipe location.

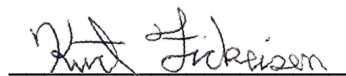
Conclusion

While excavation did not find old sewer or water lines, a portion of a pathway required for new lines was exposed.

Use of an underground camera placed in sewer lines is recommended to provide additional information required to install new sewer and water lines and protect significant trees.

If you have questions about the contents of this report contact Symbiosis Tree Care.

Sincerely



Kurt Fickeisen

International Society of Arboriculture™ (ISA) Certified Arborist # RM-451A

ISA Tree Risk Assessment Qualified

American Society of Consulting Arborists Registered Consulting Arborists© # 472



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CONSULTING ARBORISTS



Figure-1

King County iMAP Aerial Image

Photo-1**Photo-2****Photo-3****Photo-4**

Assumptions and Limitations

ASSUMPTIONS AND LIMITING CONDITIONS

Kurt Fickeisen

International Society of Arboriculture (ISA) Certified Arborist #RM 451A

ISA Tree Risk Assessment Qualification

American Society of Consulting Arborists Registered Consulting Arborist #472

Owner Symbiosis Tree Care LLC

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2. All existing liens, encumbrances, and assessments, if any, have been disregarded (unless otherwise noted), and the trees are evaluated as though free and clear, under responsible ownership and competent management. It is assumed that no violations of applicable governmental regulations have occurred.
3. Care has been taken to obtain all information from reliable sources. All data has been verified insofar as possible, however, Symbiosis Tree Care can neither guarantee nor be responsible for the accuracy of information.
4. Symbiosis Tree Care shall not be required to give testimony or to attend court by reason of this report unless subsequent contractual arrangements are made, including payment of an additional fee for such services as described in our fee schedule and contract of engagement.
5. Loss or alteration of any part of this report invalidates the entire report.
6. This report shall be used for its intended purpose only and by the parties to whom it is addressed. Possession of this report does not include the right of publication.
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11. There is no warranty or guarantee, expressed or implied that problems or deficiencies of the tree or other plant or property in question may not arise in the future.
12. The right is reserved to adjust tree valuations, if additional relevant information is made available.