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|-----------------------|----------------------------------|------------------|---------------------------------------|
| To: | City of Port Moody | From: | Rosanna Higgs, ISA Certified Arborist |
| Cc: | | Date: | August 2, 2023 Rev Sep 25, 2023 |
| Project Title: | Mount Royal Drive Walkway | File No.: | 22-0497 |
| Re: | Headwall Tree Impacts | | |

1 INTRODUCTION

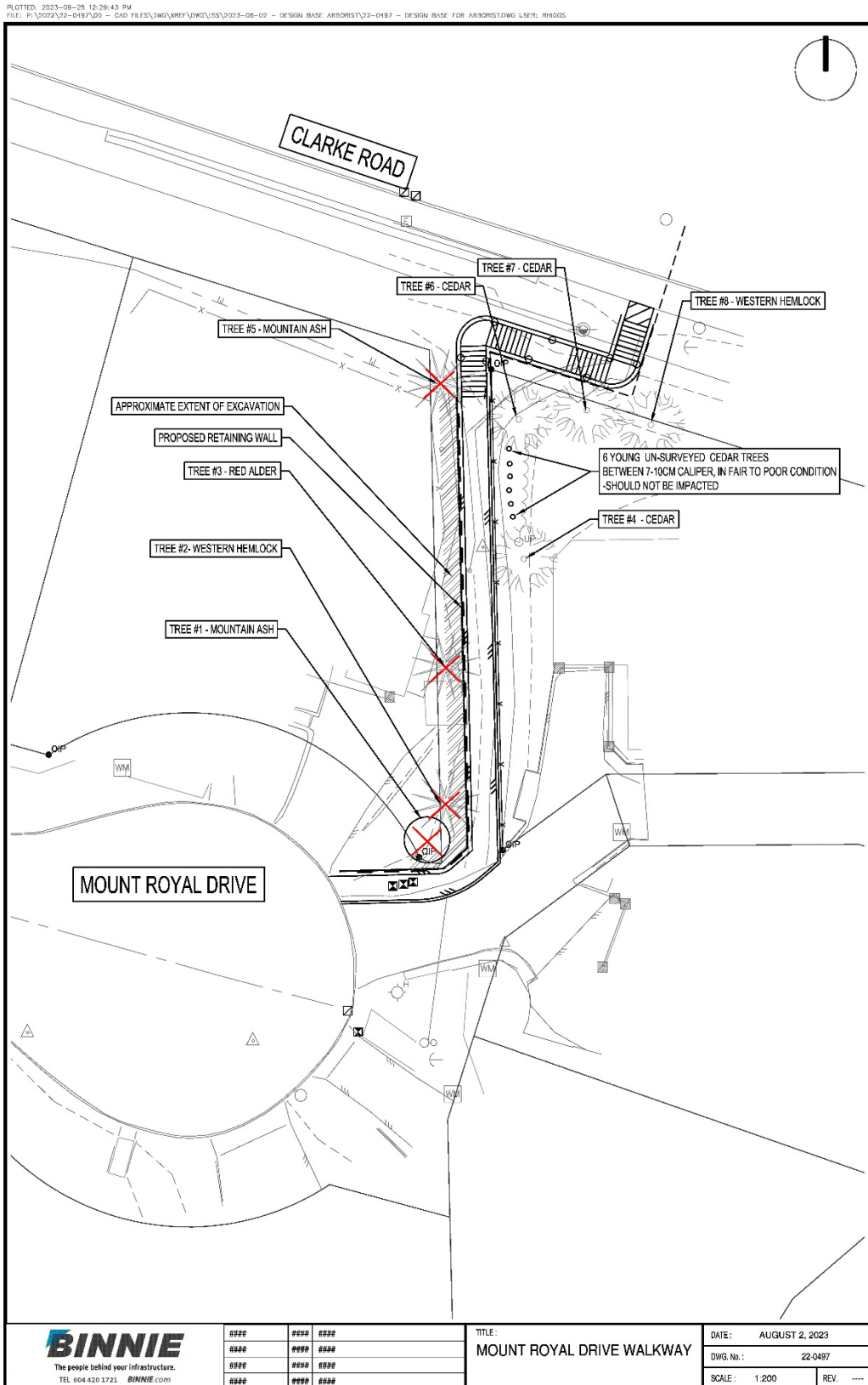
Binnie was asked to perform a Level 1 Visual Tree Assessment for any trees within a few meters of the proposed walkway along the right of way between Mount Royal Drive and Clark Road in Port Moody. There is currently an informal path and stairs leading to Clarke Road. Note that the area is completely covered in invasive ivy and it was difficult to assess the condition of the trees as the base and most of the tree trunks were not visible. Binnie recommends that a crew remove the ivy (prior to path construction) around the base of all the tree trunks where possible. Ivy adds considerable weight to trees, obscures defects or evidence of decay, reduces air and light penetration and will reduce tree vigor and increase the likelihood of branch or whole tree failure. The trees should be re-assessed once all the ivy is removed to ensure there is no evidence of decay or defects that were not visible during the initial assessment.

Table 1 -Tree Summary

| Tree # | Botanical Name | Common Name | DBH cm | Canopy Radius (m) | Comments | Remove/Retain |
|--------|---------------------------|-----------------|------------|-------------------|--|--|
| 1 | <i>Sorbus sp.</i> | Mountain Ash | Multi-stem | 5 | Fair condition -Covered in ivy | Could be impacted by excavation for the retaining wall. Removal is recommended. |
| 2 | <i>Tsuga heterophylla</i> | Western Hemlock | Approx. 60 | 4 | Moderate condition -Covered in ivy -Live Crown ratio 50% due to base covered in ivy -Base of tree 2 feet above the path grade | -Excavation for retaining wall footing is up against the trunk (1m from the proposed retaining wall). Removal is recommended. |
| 3 | <i>Alnus rubra</i> | Red Alder | Approx. 76 | 5 | Moderate condition -Covered in ivy -Approximately 2m higher than existing path | -Excavation for retaining wall footing is right up to the trunk. Removal is recommended. |
| 4 | <i>Thuja sp.</i> | Cedar | 25 | 1 | Poor -Previously topped -Overhead wires directly above | Retain with possible removal |
| 5 | <i>Sorbus sp.</i> | Mountain Ash | Unknown | 4 | Poor -45 degree lean, hazard tree | Remove |

| | | | | | | |
|---|---------------------------|-----------------|------------|---|---|---------------------------------|
| 6 | <i>Thuja sp.</i> | Cedar | 50 | 4 | Moderate -Covered in ivy -1.6m from proposed path | Retain –do not cut tree roots |
| 7 | <i>Thuja sp.</i> | Cedar | 15 | 3 | Moderate -Covered in ivy | Retain – should not be impacted |
| 8 | <i>Tsuga heterophylla</i> | Western Hemlock | Approx. 55 | 5 | Moderate -Covered in ivy | Retain – should not be impacted |

Figure 1- Tree Locations



2 PHOTOS



Photo 1: Tree #1- Mountain Ash

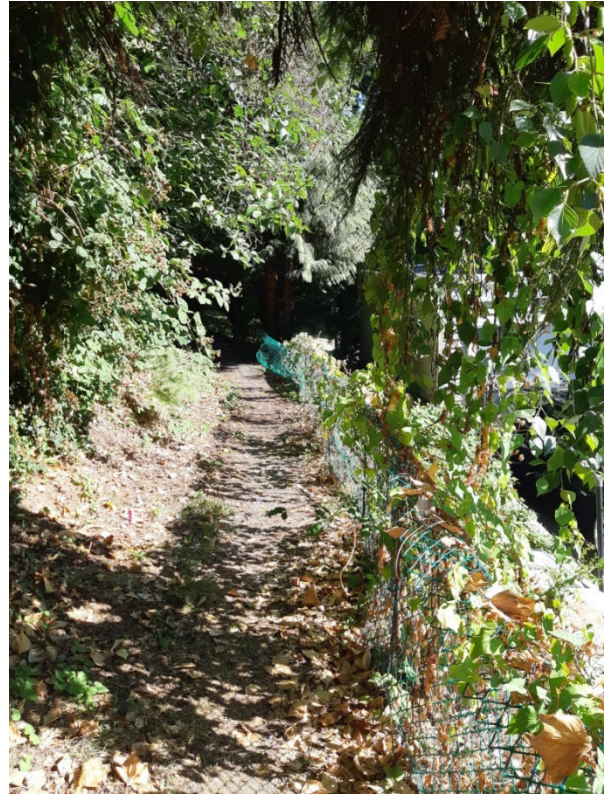


Photo 2: Existing path



Photo 3: Tree #2- Hemlock



Photo 4: Tree #3- Red Alder
(branches near overhead wires)



Photo 5: Tree #4- Cedar

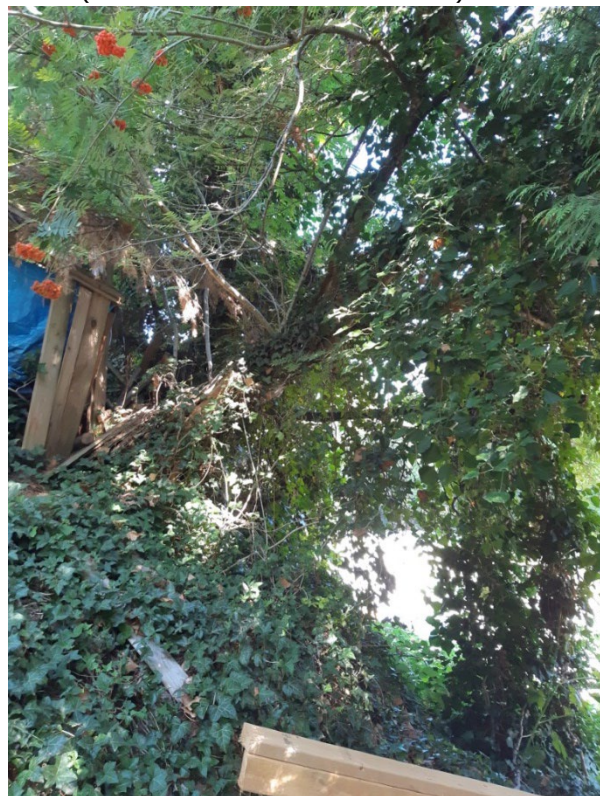


Photo 6: Tree #5- Mountain Ash



Photo 7: Row of young cedars



Photo 8: Tree #6 - Cedar

3 TREE REPLACEMENT

Tree replacement is 2:1, therefore 8 trees should be replaced as per the City of Port Moody's tree bylaw. Replacement conifers need to be a minimum of 1.5m height and deciduous trees 7cm caliper. The location and species should be under the direction of the City of Port Moody.