ATTACHMENT O

To: BD Sheridan, LLC
         Attn: Bernie Saulnier
         1266 Furnace Brook Parkway
         Suite 300
         Quincy, Mass 02169

From: Rene D. Noel, Jr. ACF Maine Licensed Forester # 325

Date: October 3, 2016

RE: Sheridan Street Forest

I have examined and inventoried the trees on the Sheridan Street property.

The site is a hillside with fairly steep slopes. A large part of the area has soil which has been disturbed in past or is fill dumped from above. From my observations there is little of the property where soils are not fill or have not been disturbed in the past. In other words there is little to no natural soil types on the property.

The overstory forest is composed primarily of Norway maple and apple. The understory plant community is composed almost entirely of invasive species. During my field work I saw and identified; Barberry, Bittersweet, Multiflora rose, and Honeysuckle. These undesirable plants occupy most or all or most of the growing space in the understory.

Shade from the overstory and dense plant community of invasive shrubs allows little light to reach the soil surface for the growth of low vegetation, such as grasses and forbs. Nor has a natural litter layer and humus developed under these conditions. This has left areas of the surface of the soil exposed. This combined with steep slope and unstable fill soils allows for a constant low level of soil erosion.

The community of overstory trees is largely composed of stems of an undesirable specie, Norway Maple. Norway Maple is an imported invasive tree species. By simple count it comprises 62% of the stems. However, foresters use basal area, the cross sectional area of trees as a better measure how trees occupy a forest. By this measure, basal area, Norway Maple is 77% of this forest. Apple trees which most would not consider undesirable but are not native account for 28% of the stems and 21% of the basal area.

A total of 81 tree stems were tallied on the property. Of these 16 were 10 inches or larger at Diameter Breast Height, 4.5 feet, from the ground. Of these 16, 6 are Norway Maple and 5 are apple. There may be a few desirable stems around the periphery of property that can be preserved. However, I advise caution. On this steep land any root disturbance or stem damage during construction will destabilize these stems making for high risk trees in a dense residential area.

This property is slated for dense residential development. From a forest and ecological perspective there is not a lot to be lost in this development. The forest and understory is composed primarily of invasive undesirable or non native species. Soils are also unstable and eroding.
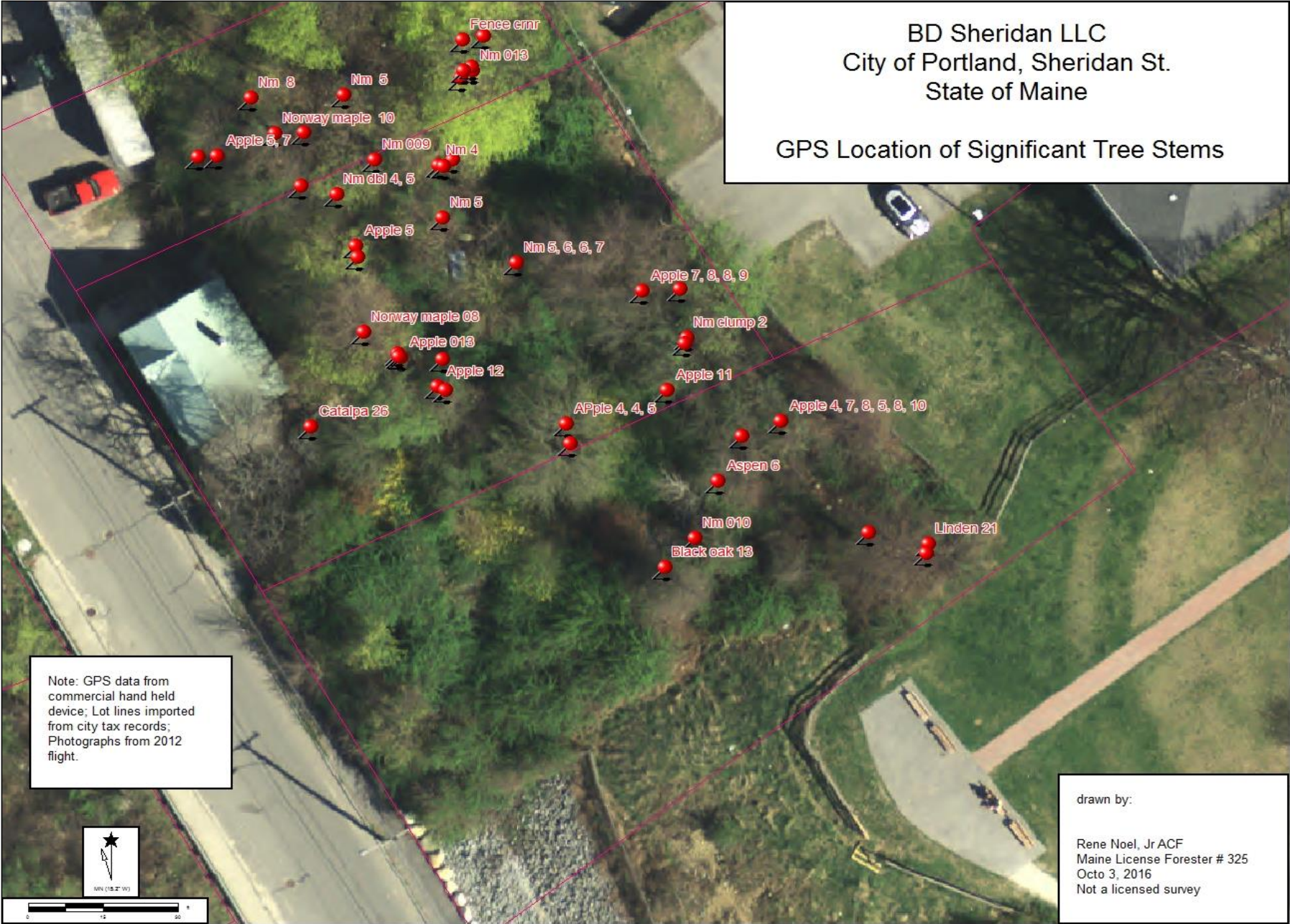
Removal of this forest and replacement with more suitable species in the landscaping and buffer areas could improve urban forest and plant community of this area.

Below is a table showing trees by species and diameter that are found on the property as well as map prepared from GPS data showing location of all stems and another showing location of trees over 10" in DBH.

Rene D. Noel, Jr. ACF
Maine Licensed Forester #325

DeLORME

Fence crnr
Nm 013

Nm 8   Nm 5

Norway maple 10

Apple 5, 7

Nm 009   Nm 4

Nm dbl 4, 5

Nm 5

Apple 5

Nm 5, 6, 6, 7

Apple 7, 8, 8, 9

Norway maple 08   Nm clump 2

Apple 013

Apple 12   Apple 11

Catalpa 26   Apple 4, 7, 8, 5, 8, 10
APple 4, 4, 5

Aspen 6

Nm 010   Linden 21
Black oak 13

BD Sheridan LLC
City of Portland, Sheridan St.
State of Maine

GPS Location of Significant Tree Stems

Note: GPS data from
commercial hand held
device; Lot lines imported
from city tax records;
Photographs from 2012
flight.

MN (15.2° W)

drawn by:

Rene Noel, Jr ACF
Maine License Forester # 325
Octo 3, 2016
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BD Sheridan LLC
City of Portland, Sheridan St.
State of Maine

GPS Location of Tree Stems over 10" DBH

Nm 13
Nm 013

Norway maple 10

Apple 013
Apple 12
Catalpa 26

Apple 11
Apple 6, 7, 8, 10, 10   Linden 15

Nm 010
Black oak 13
Linden 21

Note: GPS data from
commercial hand held device;
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MN (15.2° W)

Table 1. Tree Count by Species and Diameter Breast Height (4.5 feet)

DBH	Species N Maple	Catalpa	Apple Spc.	Black Cherry	Lindon	Black oak	Aspen
1	2						
2	8						
3	5						
4	4		3				
5	8		3		1		
6	5		2				1
7	4		3				
8	6		5				
9	4		2		1		
10	3		3	1			
11	1		2				
12	1						
13	1					1	
14							
15					1		
16							
17							
18							
19							
20							
21					1		
22							
23							
24							
25							
26		1					
27							
Total < 10	44	0	18	0	2	0	1
Total >10	6	1	5	1	2	1	0
Total	50	1	23	1	4	1	1