

To:
Anthony Venezia

From:
Daniel C. Hackett

Date:
2020-4-23

Subject:

Consult for reforestation of 56,000sqft at 5131 Silvernail Drive, Canandaigua, New York



A. Framework for developing tree totals

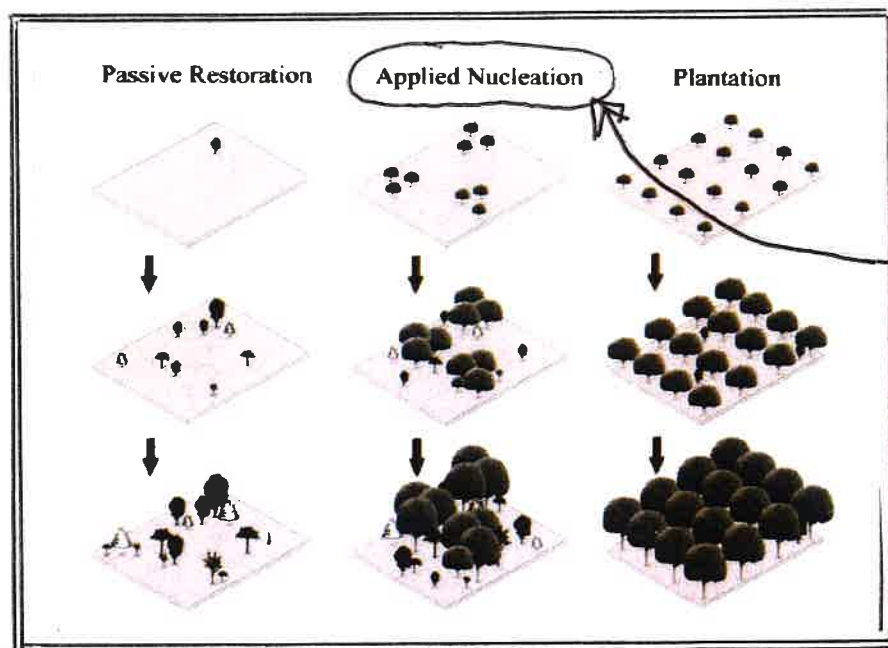
USDA recommends using 170 sapling trees per acre to reforest. This total is based upon a mortality rate of 50% in the first five years and an additional 15% in the next five years.

You have 1.29 acres +/- times 170 saplings (ie. 4"-6" tall plants) making the total tree count necessary 220 sapling trees.

Understanding from you that the town desires to reestablish a wooded condition quicker, I would suggest up sizing the plants to three gallon $\frac{3}{4}$ " to 1" caliper approximately 3' to 5' tall plantings. This up sizing would then reduce the necessary quantities by 65%, making the suggested planting totals 77 units planted. The 77 units was derived at by reducing 65% of the suggested 220 saplings.

B. Planting Format

The trees should then be planted in an applied nucleation planting layout (Corbin and Holl 2012). This configuration versus a passive restoration or a plantation restoration will provide a more aesthetically in tune look consistent with a pastoral landscape of the Finger Lakes region.



Trees should be maintained for a minimum three year period to assure root growth development and establishment. Trees should be replaced as necessary during this maintenance period.

C. Species Selection

Species diversity and on site conditions should be considered with the reforestation. At a minimum, five varieties should be used, but not limited to only five.

Recommendations for varieties based on species and site conditions:

Northwest

Oak – red and white
Beech
Hickory

Southeast

Red Maple
Eastern Cottonwood
Tulip
Swamp Oak
American Plane Tree

Central Southwest

Sugar Maple
Basswood
Black Walnut
Black Cherry

Plants should be planted with minimal soil amendments added at time of planting to allow fuller root development/integration into the native soil areas.

D. Development of remaining disturbed areas

After tree planting a necessary vegetative cover seed crop should be applied to disturbed areas.

Recommended: PS Harvest Select Upland Natural Forge Mixture

Species: Big Bluestem, Switchgrass, Wildrye, Purpletop, Coastal Panigrass, Partridge Pea, Blackeyed Susan, Fowl Bluegrass, Showy Ticktrefoil, Oxeye Sunflower, Palins Coreopsis @ 20lbs/acre.

For additional aesthetic purposes, a select native wildflower mix can be added, but is not necessary.

E. Sketch of planting proposal with select species to follow on next page

SKETCH DIAGRAM OF SPECIES
SELECTION AND LOCATIONS USING
NUCLEATION PLANTING FORMAT.

Ted Collins Associates, Ltd.

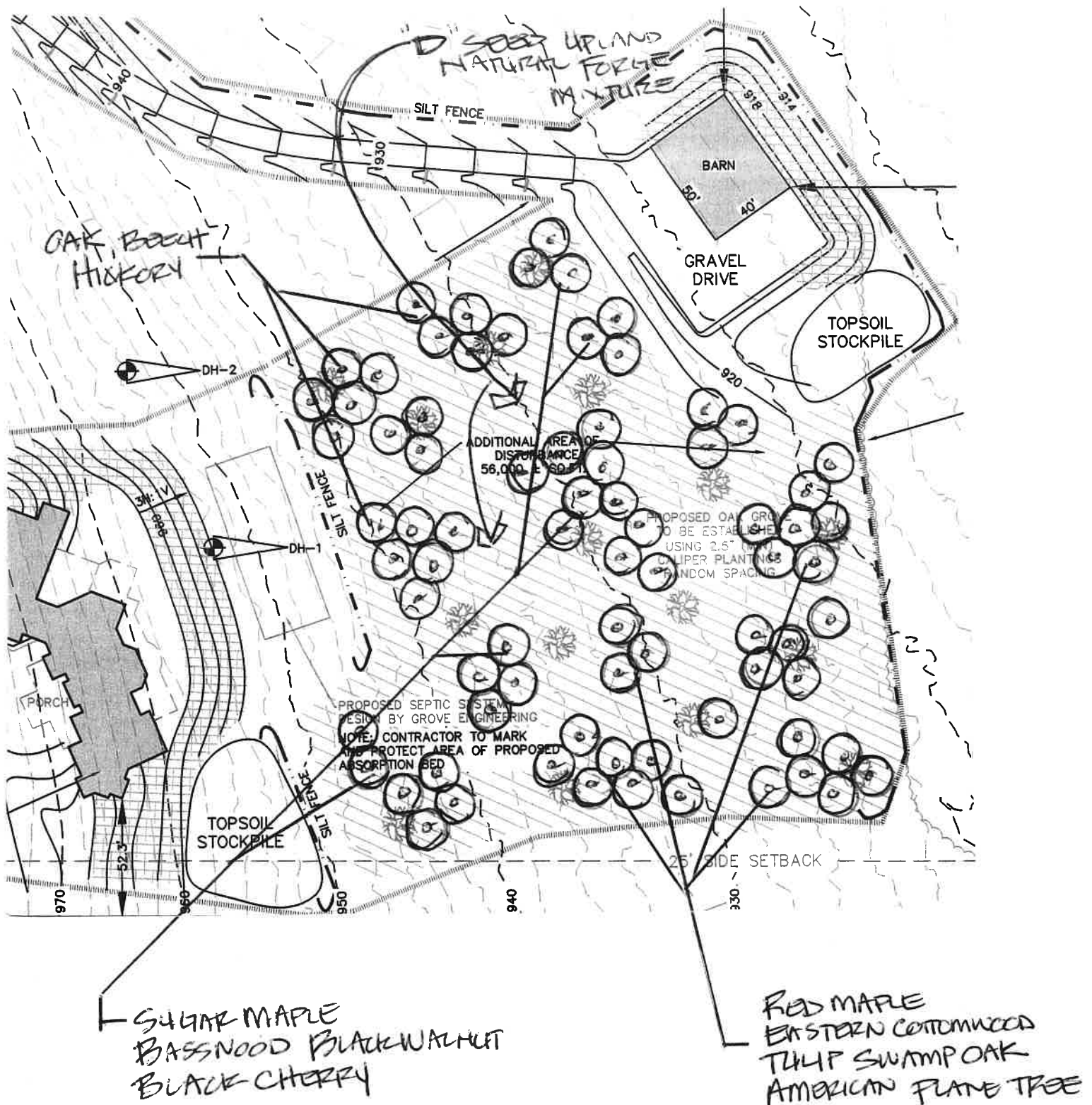
8000 Victor-Mendon Road

Victor, NY 14564-9122

Ph: 585-381-9000

Fax: 585-924-1551

www.tedcollinst-l.com



F. Conclusion

This report is intended to act only as a guideline to reforestation and help provide a path forward to reestablishment of the disturbed area as reviewed April 22, 2020.

A handwritten signature in black ink, appearing to read 'Daniel C Hackett', is written over a solid horizontal line that spans the width of the page.

Daniel C Hackett RLA, ASLA