



# **Massapoag Avenue Water Tank Replacement – Sharon, MA**

**Zoning Board of Appeals Hearing  
Wednesday, September 25, 2019**



# Existing Water Storage Tank

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- 1 MG welded steel water storage tank erected in 1955
- Diameter = 48'
- Height to overflow pipe = 75'
- Approx. height to tallest antenna = 86'
- Verizon and T-Mobile antennas on tank
- Fire dept. communications and radio equipment on tank



# Project Need

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- 720,000 gallons of unusable storage
- Extensive degradation and corrosion of interior surfaces
- High rehabilitation costs



# Existing Site Overview

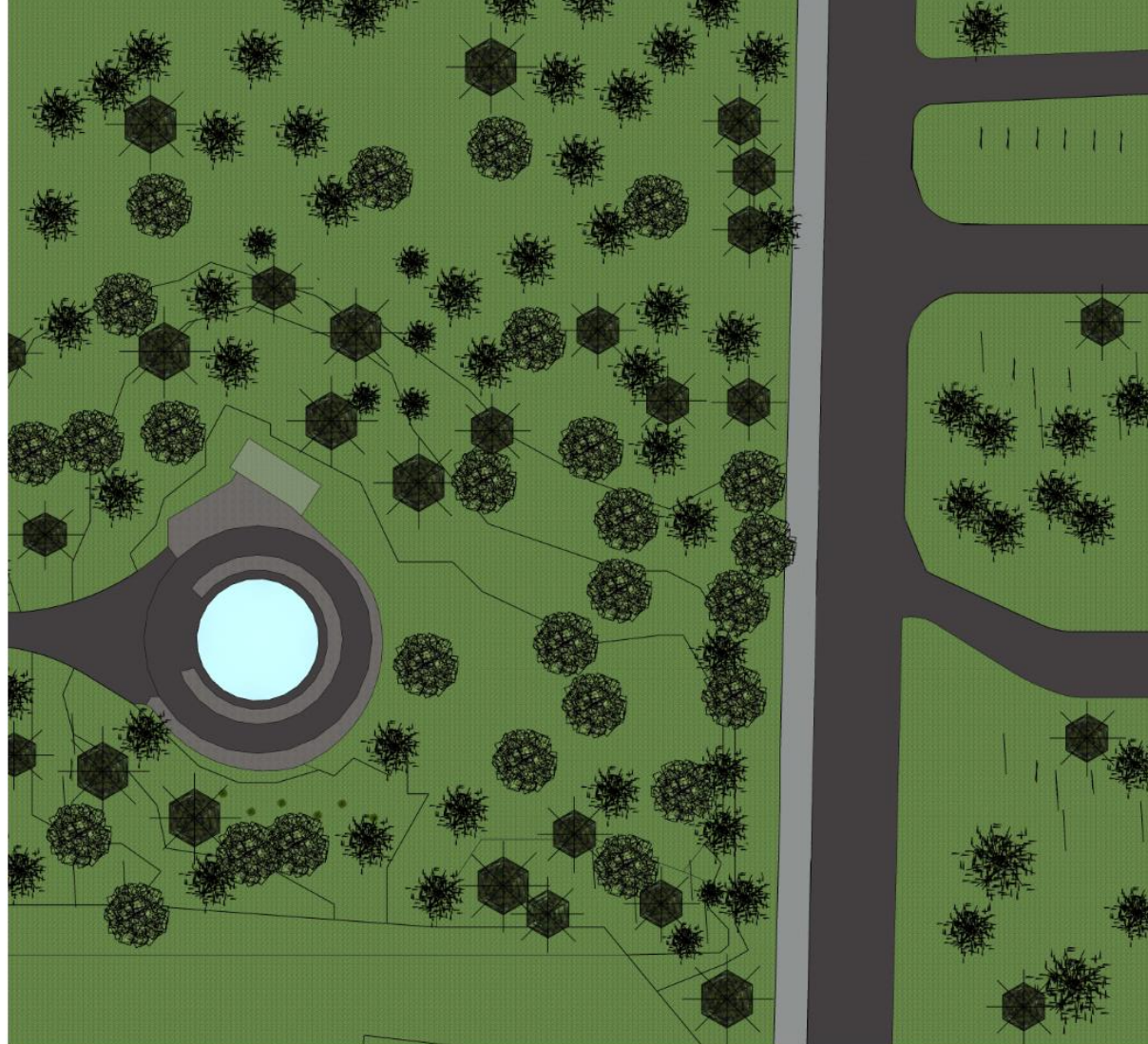






# Existing Tank Plan View - Rendering

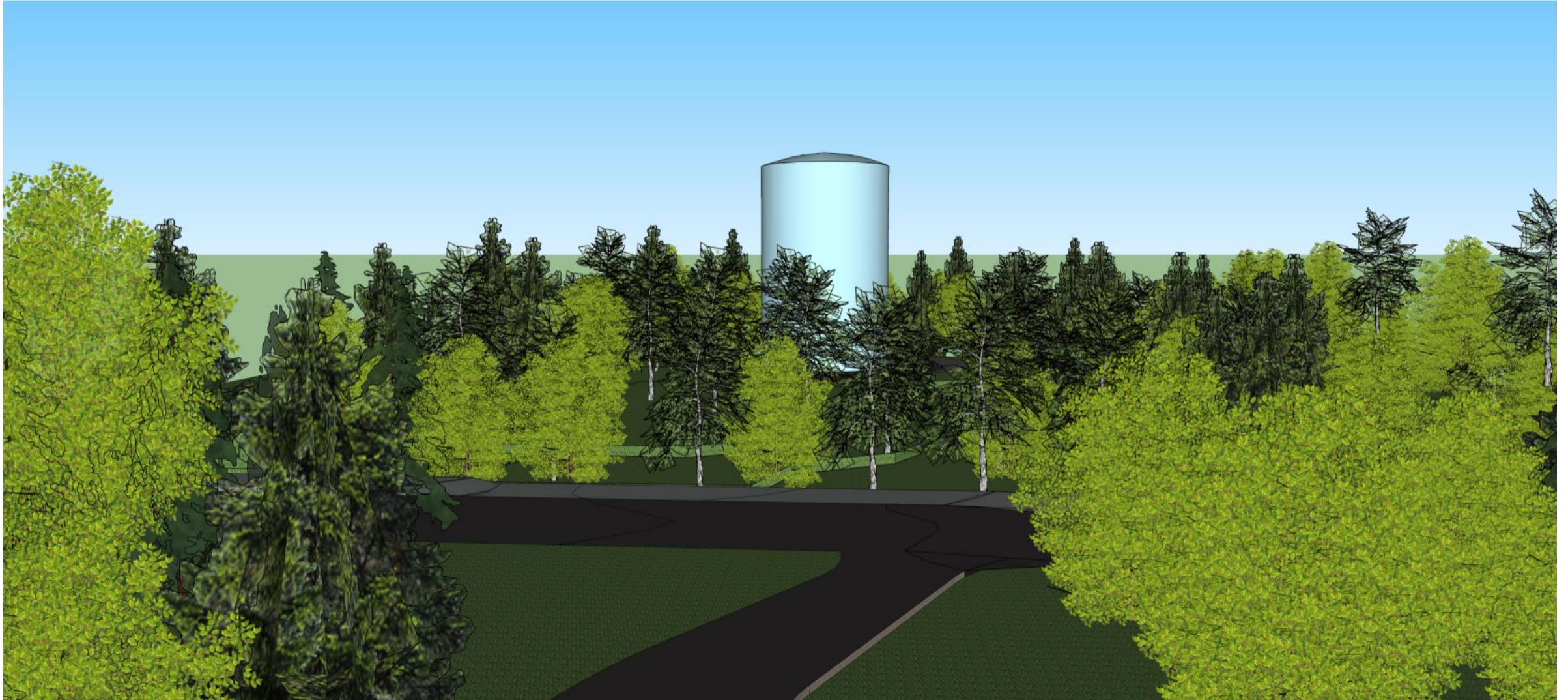
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# Existing Tank Overview - Rendering

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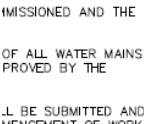
# Proposed Project

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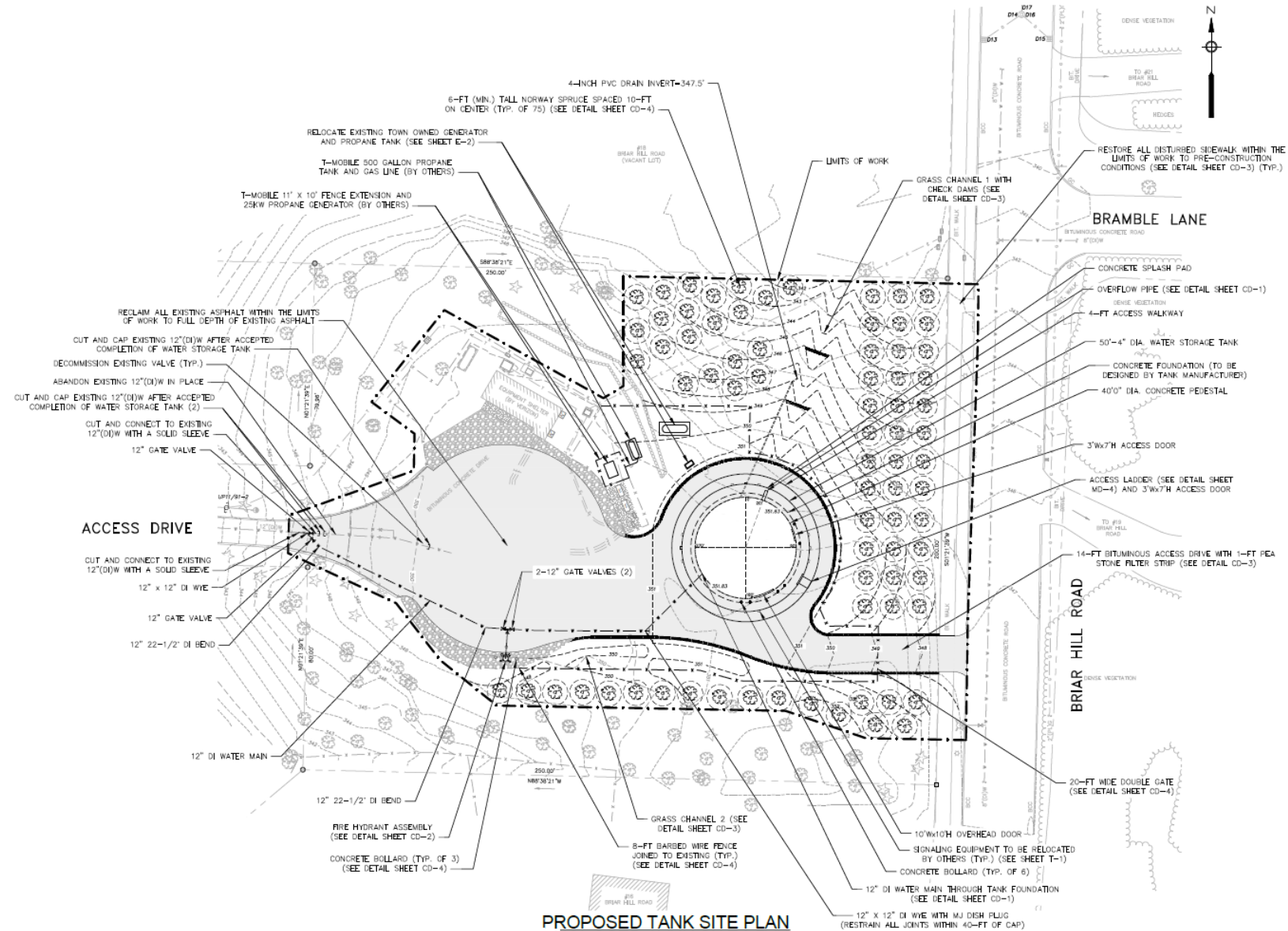
- New 297,000 gallon elevated glass-fused-to-steel water storage tank
  - Bowl Diameter = 50'-4"
  - Pedestal Diameter = 40'
  - Height to overflow pipe = 75'
  - Height to tallest antenna = 93'
  - Relocate controls in tank pedestal
- Tank mixing system
- Relocation of cell and Fire dept. infrastructure
- Demolition of existing water storage tank
- Re-forestation of existing site
- Site access off Briar Hill Road







# Proposed Site Layout



# Proposed Tank Plan View – Rendering Immediately Post Construction

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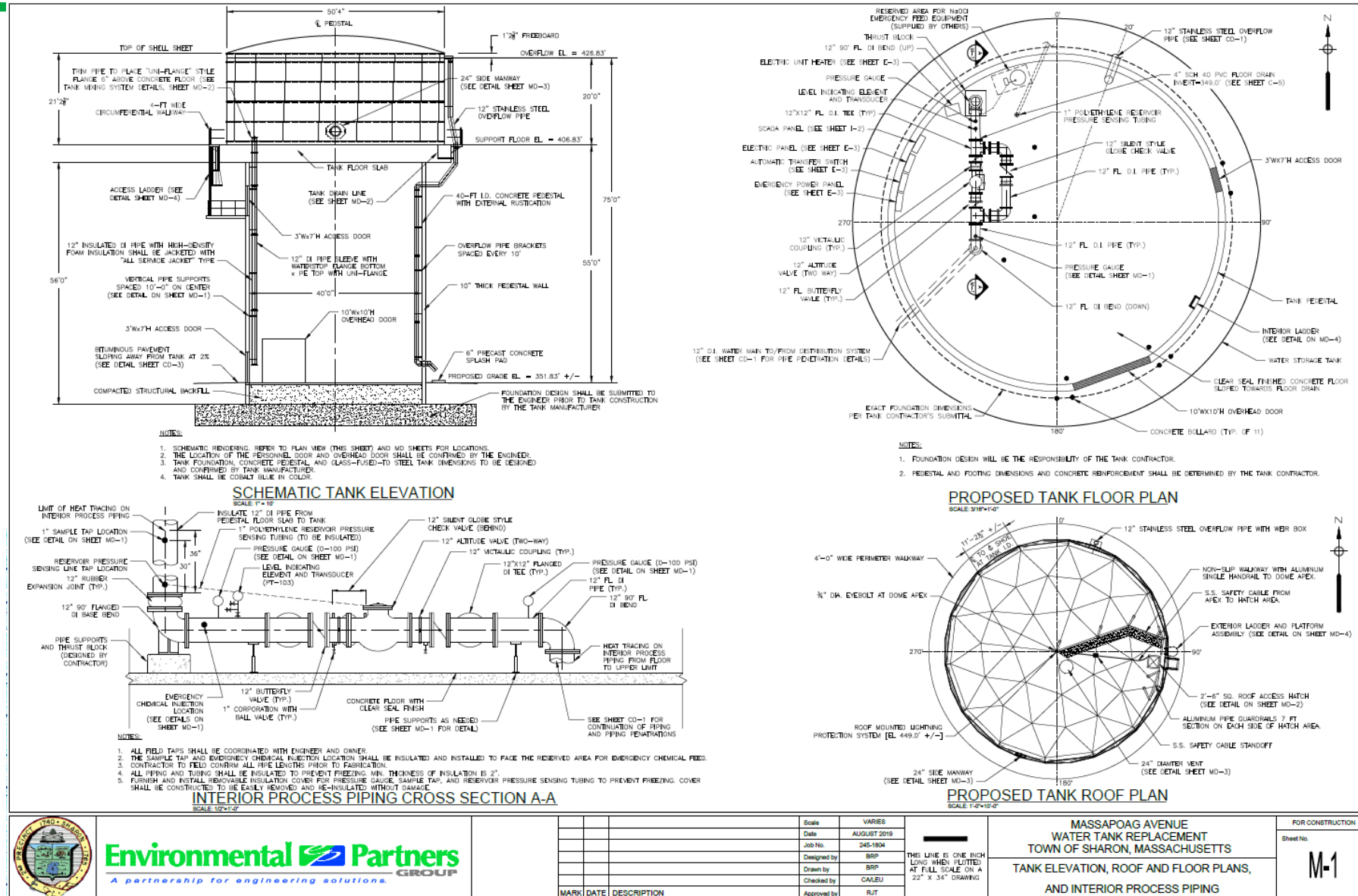


# Proposed Tank Plan View – Rendering ~15 Years Post Construction

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# Proposed Tank



MARK	DATE	DESCRIPTION





# Proposed Tank Overview – Rendering Immediately Post Construction

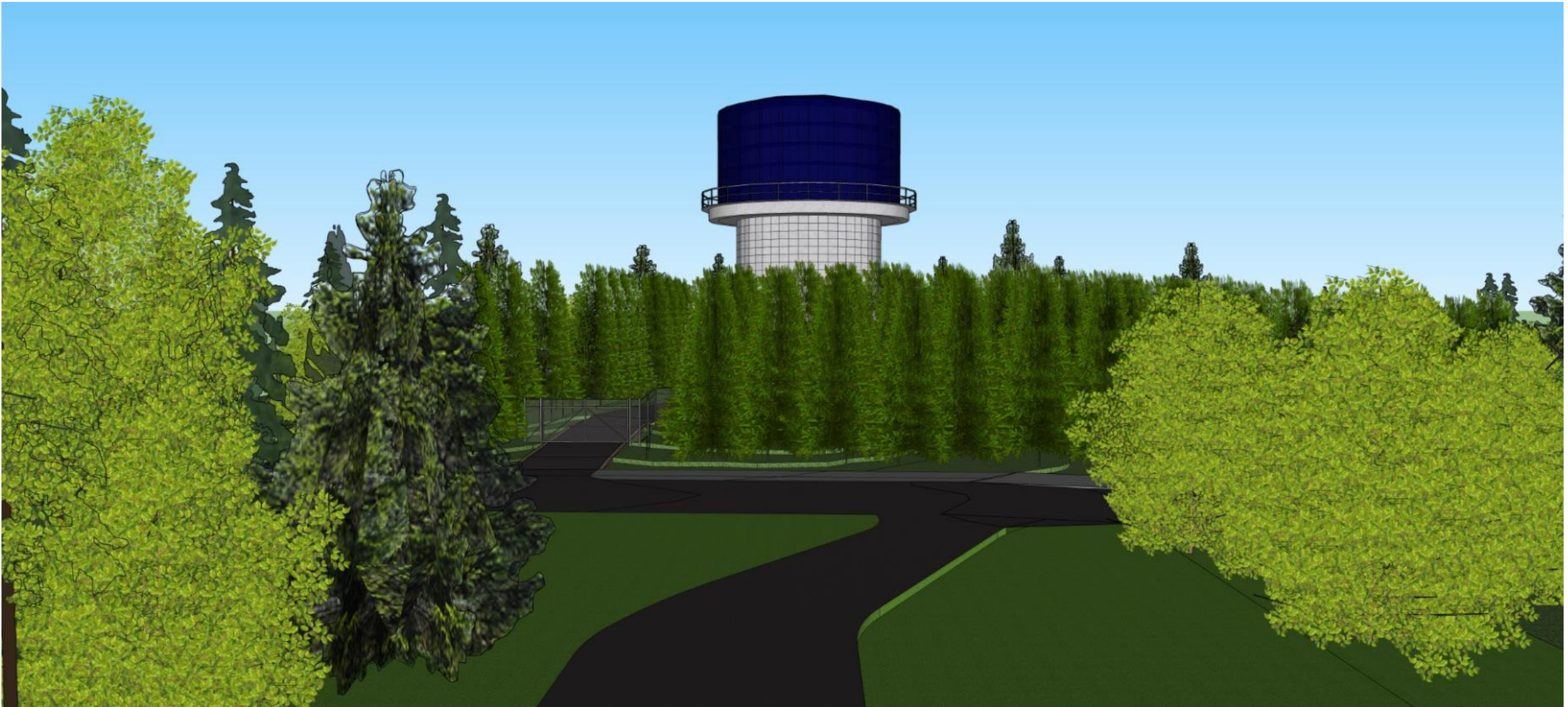
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# Proposed Tank Overview – Rendering ~15 Years Post Construction

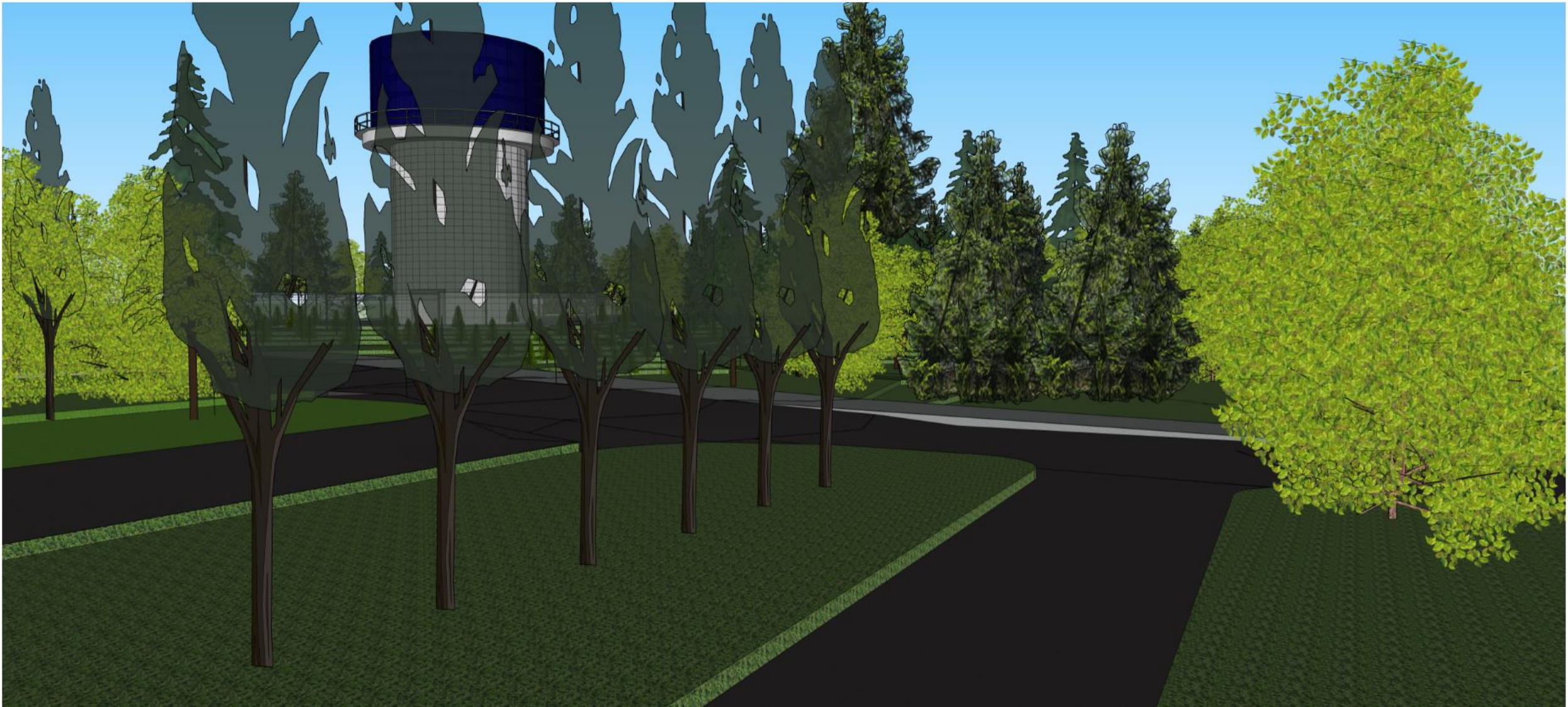
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# Proposed Tank from 21 Briar Hill Rd – Rendering Immediately Post Construction

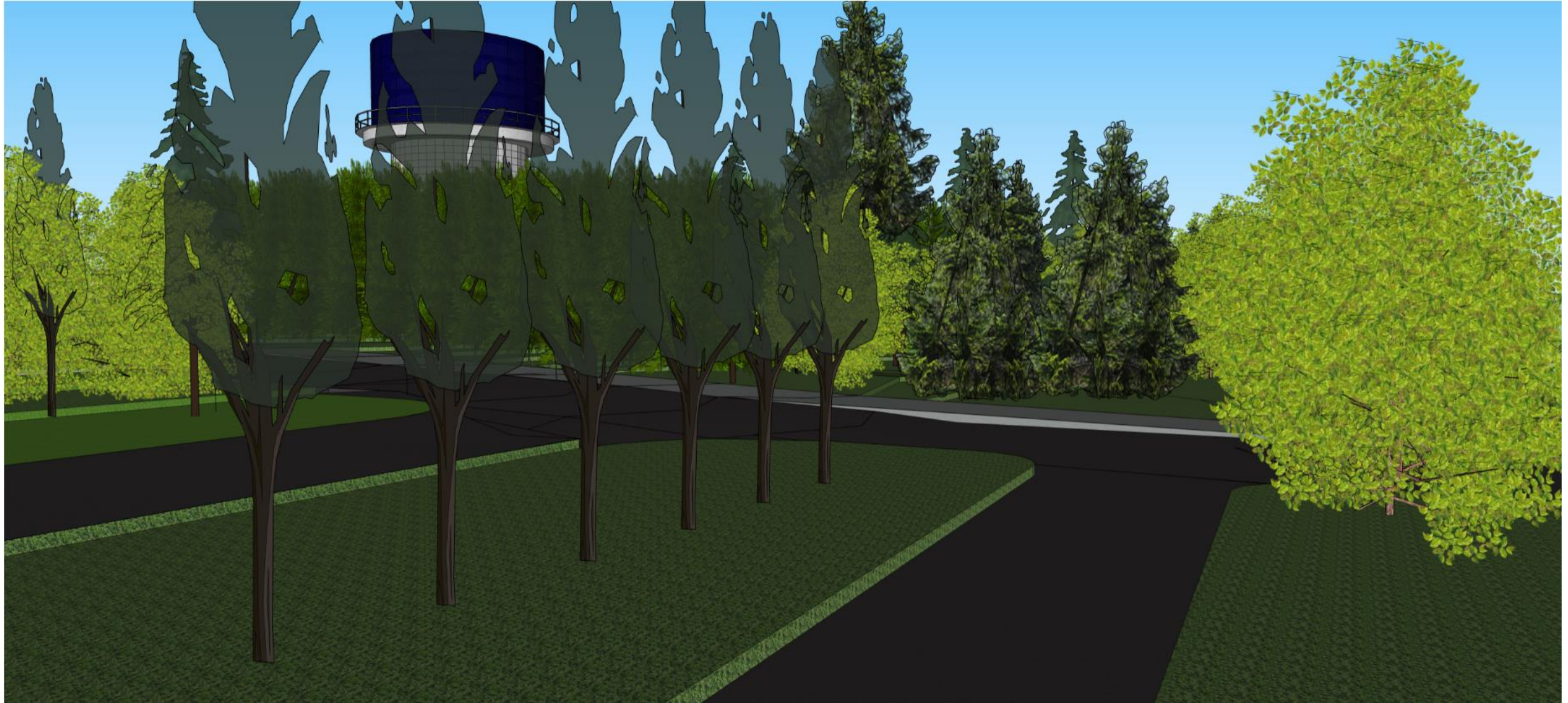
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# Proposed Tank from 21 Briar Hill Rd – Rendering ~15 Years Post Construction

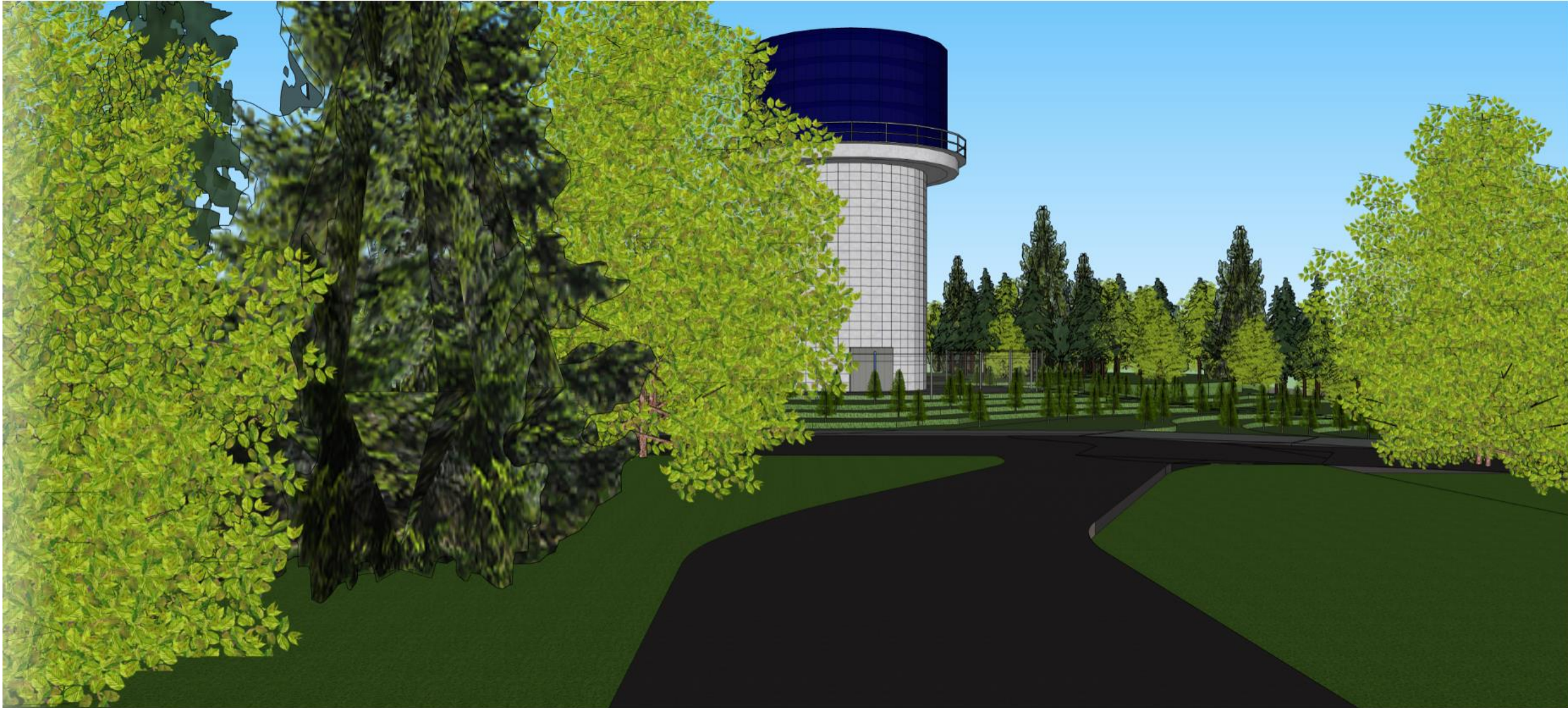
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# Proposed Tank from 19 Briar Hill Rd – Rendering Immediately Post Construction

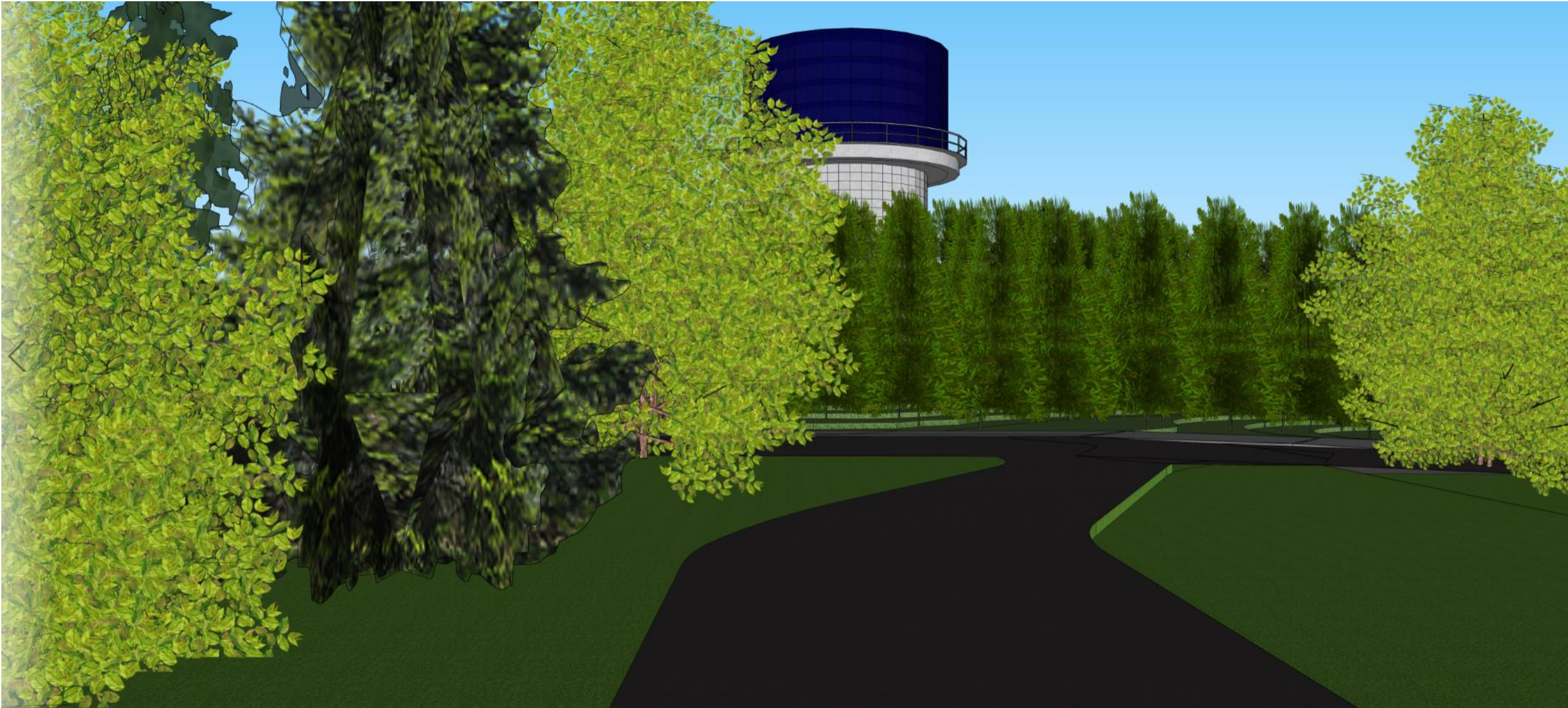
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# Proposed Tank from 19 Briar Hill Rd – Rendering ~15 Years Post Construction

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# Benefits of a Glass Fused to Steel Tank

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- Cost effective solution for tank replacement
- Coating is not required
- Low maintenance
- Maintains appearance
- Long tank life
  - 140 year old methodology
  - 98% of all tanks still in service today
- Panels can easily and inexpensively be replaced
- Graffiti washes off easily
- Year round construction













# Abutter Meeting

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- Met with abutters on Wednesday, 9/18/19
- Raised concerns:
  - Briar Hill Access Road
  - Maintaining existing trees and cover onsite
  - Proximity of tank to Briar Hill Road and neighboring homes
  - Loud generator (not associated with Water Dept.)











# Anticipated Project Schedule and Work Hours

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- Award project to a Contractor this winter
- Construction to begin in early 2020
- Construction anticipated to last one year
- Monday-Friday, typically 7AM-4PM
  - Extended work hours may be required for certain tasks



# Project Contact Information

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**Q&A**

