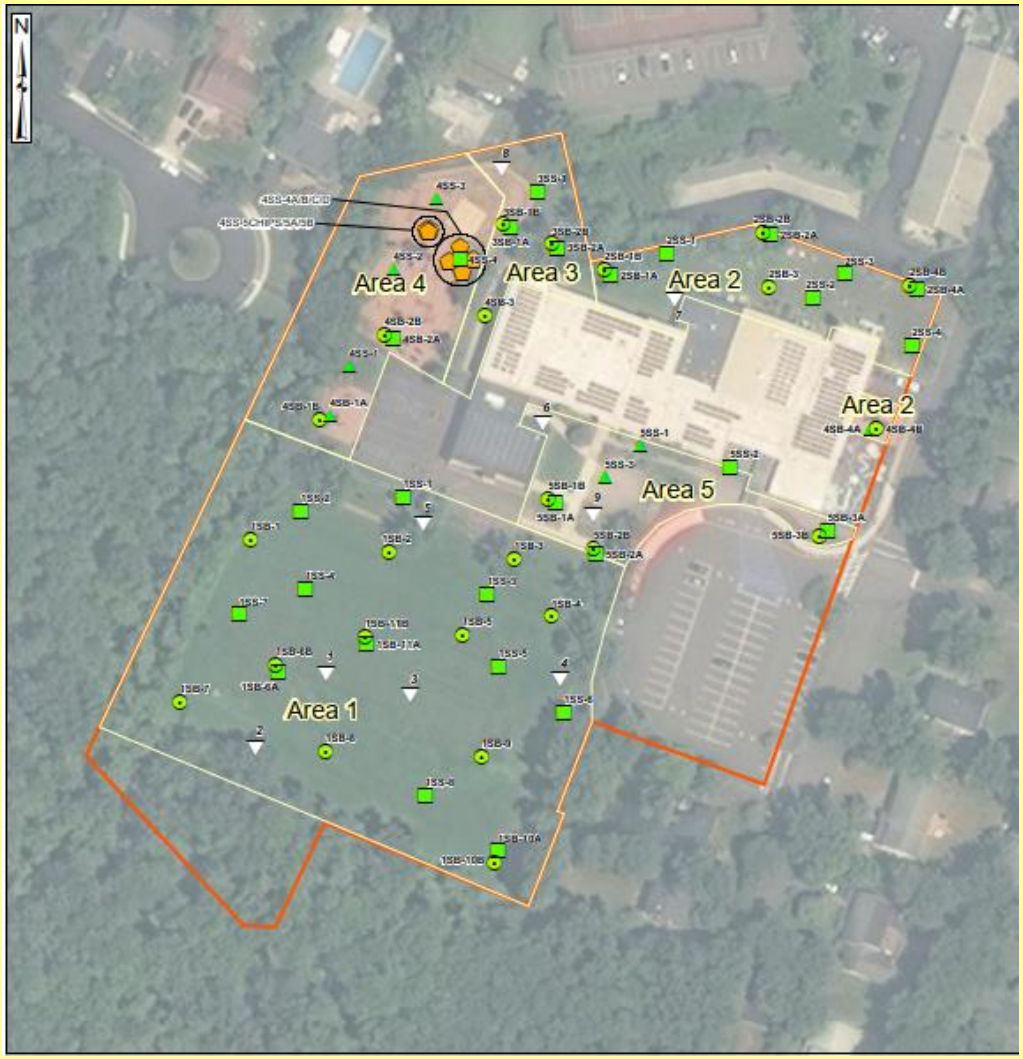
# Site Remediation Plan

- Historic Fill is located site wide.



# Site Remediation Plan

- The property is difficult to remediate.  Constraints to soil remediation:
  - Do not disturb the underlying ash that is a part of the former ash landfill.
  - Limitations on the amount of new soil cover that can be brought in due to flood zones mapped on the property.
  - Need for continuing future use of the athletic field

# Site Remediation Plan

- The playground areas have previously been capped with mulch while other areas have turf cover or have asphalt, pavers or cement cover.

# Site Remediation Plan

- Areas with existing impervious surfaces such as asphalt, pavers or cement can serve as a cap and will not be disturbed.
- Previously mulched areas such as the playground will not be disturbed.
- Existing mulched areas will be checked for adequate cover.

# Site Remediation Plan

- New work areas will either be capped with clean soil or mulch while others will be excavated and replaced with clean soil.

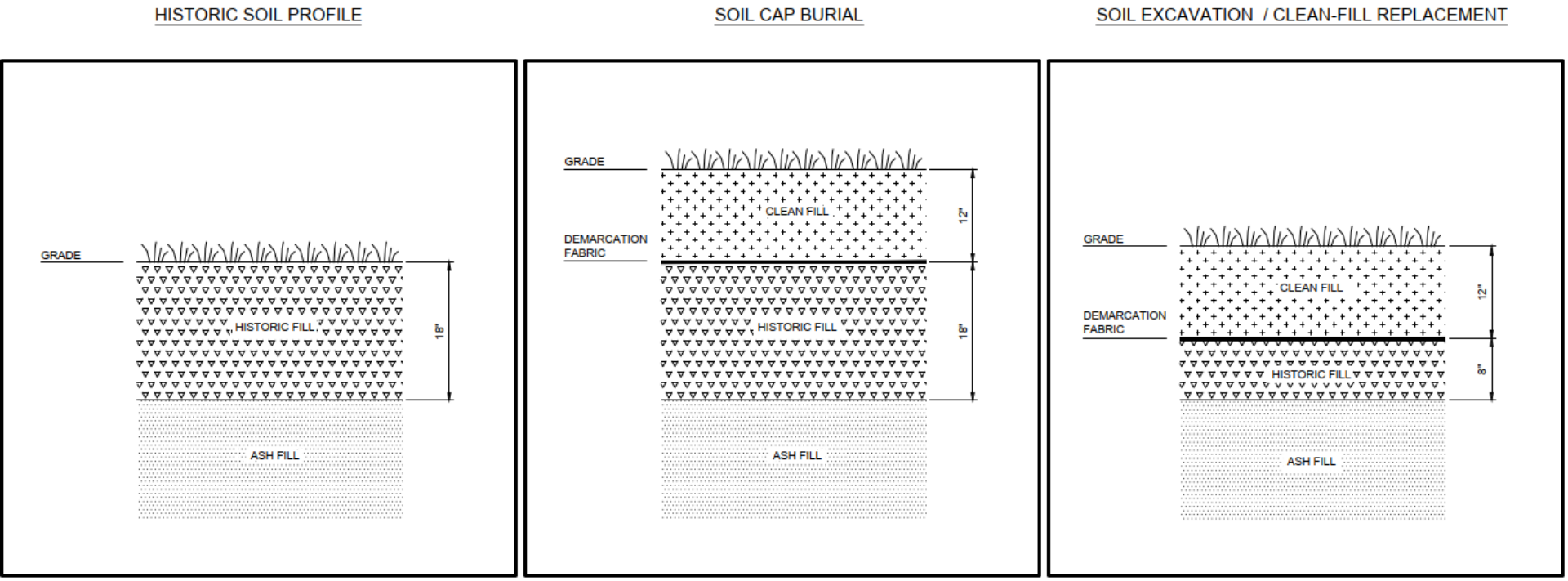
Dark green – new soil cap over grade

Light green – excavate and replace with new soil cap

-Due to remediation constraints, 1 foot of clean soil cap is acceptable to NJDEP in lieu of presumptive remedy (2 feet).

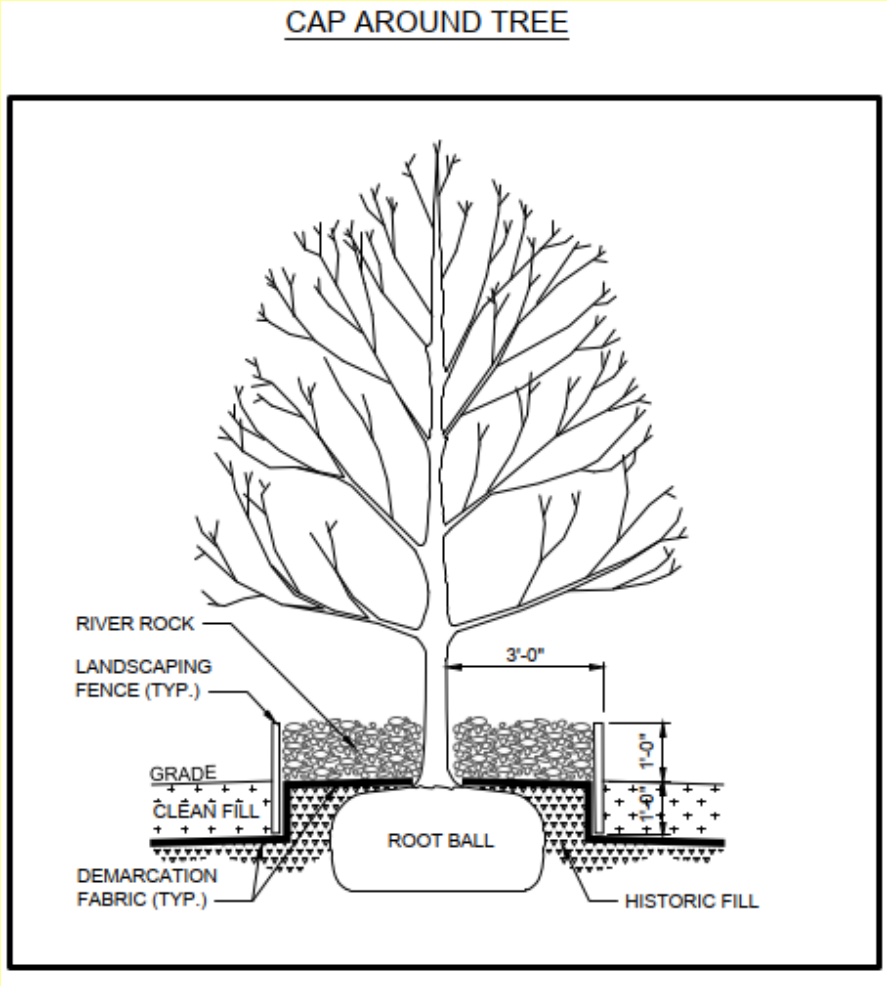
# Site Remediation Plan

- Cross-sections of areas to be remediated:



# Site Remediation Plan

- The roots of large trees will be left undisturbed. The base of each tree will be capped with demarcation fabric and then covered with river rock.



# Site Remediation Plan

- Approximately 4,300 tons of clean soil will be brought in to cap certain areas.
- Approximately 1,700 tons of soil will be excavated and disposed of off-site with same quantity of clean soil brought in to replace the removed soil.
- Excavated soil will be disposed of at NJDEP approved soil recycling facility.
- Total of 6,000 tons of clean soil to be brought in.
- A demarcation barrier consisting of snow fence type material will be laid down over the area to be capped or in the excavated areas.

# Site Remediation Plan

- Clean fill will be “virgin” material consisting of a soil loam suitable for vegetative regrowth.
- All clean fill will be “certified” clean with sampling data for verification.
- A total of 36 verification samples will be collected from the clean soil material to be used.

# Site Remediation Plan

- The work is anticipated to take approximately 45 days to complete.
- The work will be accomplished over the summer months while school is not in session.
- Anticipated start date is June 25th.

# Site Remediation Plan

- During the work, the areas will be fenced-off and dust control measures will be implemented using water spray.

- Dust monitoring instruments will be utilized at two downwind locations.

- Levels measured over 5 milligrams per meter cubed ($mg/m^3$) will stop work.

# Site Remediation Plan

- The existing parking lot area at the school will be utilized for staging materials and loading trucks.
- About 80 truck loads of historic fill will be removed from the site.
- About 275 truck loads of clean soil will be brought in.

# Site Remediation Plan

- The trucks will enter and exit using the following path:

  -Maple Avenue to
  -Ackerman Avenue to
  -Doremus Avenue to
  -Orchard Place

# Site Remediation Plan

- Once the work is complete, areas intended for grass will be seeded and other areas will be landscaped accordingly.

# Site Remediation Plan

- Following the field work, the integrity of the cap will be monitored once a year by field inspections under an approved permit.

- Monitoring events will be reported on every two years to the NJDEP for verification that the remedy is in place.