Memo

Date: September 29, 2020
To: Town of Arlington Conservation Commission
From: Andrew Keel, Duke Bitsko – Hatch
Project: Wellington Park and Mill Brook Corridor Revitalization – Phase 3
DEP No. 091-0324
Subject: Design Revisions per Conservation Commission Request from 9/17 NOI Hearing

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The intent of this memo is to summarizes design revisions that have been incorporated into the 75% drawing set at the request of the Conservation Commission raised during the 9/17 hearing. Also included is a response to the Town Engineering Department's comments and questions.

1. Design Revisions (in italics):

   1.1 Review size of river stone at bioretention basin weirs.
   Size of river stone at weir/biobasin increased from 4" to 6" diameter and layer of 3/4" crushed stone added below river stone with non-woven geotextile filter fabric.
   1.2 Review alternatives for Cor-ten steel weir based on salt corrosion and park aesthetics.
   Hatch proposes to utilize a composite wood material with removable slats that have the ability to be raised or lowered based on future storm events.
   1.3 Request for more tree planting, specifically canopy trees along brook for shade.
   Hatch is increasing the number of shade trees from 8 to 11 and will find appropriate areas along the brook for placement.
   1.4 Request to evaluate bench location and proximity to floodplain/floodway.
   The bench is currently out of the 100-yr flood zone. Option one is to relocate the bench across the path. Option two is to leave the bench in its current location and relocate in the future if flooding becomes an issue.

2. Town Engineering Department Review (Responses in italics):

   2.1 Proposed excavating and/or resurfacing over/near an MWRA Sewer Easement:
      2.1.1 8M Permit (Sewer) may be required for excavation/resurfacing work near this sewer; if Hatch has not already done so, they should contact Kevin McKenna from the MWRA for a plan review and permit as needed
      Hatch is actively pursuing the MWRA 8M permit.
      2.1.2 The MWRA may not approve of infiltrating water above/near the easement.
      The vegetated swale is intended for conveyance purposes only during higher storm events; see response 2.3 below regarding rapid infiltration associated with the bioretention basin.

   2.2 Drinking Fountain:
      2.2.1 Will this still be appropriate to include following COVID?
      Hatch actively pursuing answer from Parks and Recreation Department; if not appropriate funds will be allocated towards extending the plant maintenance and guarantee period, which includes invasive plant monitoring and removals.
      2.2.2 Who is "By Others"? Additional permitting/metering/etc. will be required by the DPW.
      DPW would be responsible for installation of waterline and connection (cost exceeds project budget).

2.3 Standing Water in Bioretention Basin: any concern regarding mosquitoes (HHS)?
No. Based on 2018 test pit soils investigation (from Phase 2 project) soils indicate water will drain from basin in approximately 6 hours and mosquito hatching time in standing water is 2-3 days.

2.4 4" Riverstone in Forebay: Significant volume of stormwater builds up on Prentiss. Have the flows during heavy storms been observed/considered to ensure 4" stone will be able to withstand flows at the forebay?
River stone size has been increased to 6" diameter.

Attachment: Sheet L-4 Bioretention Basin and Swale Enlargement Plan.