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To:..... Jessica West
Cc: Mark Pascoe
From: Joe Looby
Date: 6-25-2020
Project: Textile Road Rain Garden
Regarding: Recommendation & Project Plan

PROJECT MEMO

Pursuant to your request, Stantec has prepared a Recommendation and Project Plan for the Township to self-perform construction of the Textile Road Rain Garden. As you recall, the Township publicly advertised to solicit construction proposals from qualified contractors in March to perform a much larger project that included the Rain Garden. Only two proposals were received, and both proposals exceeded the Township's budget. Due to the Covid situation, a decision was made to reduce the current scope of the project and self-perform the work, similar to the rain garden construction located at the Township Hall. The Project Plan includes plans, specifications, construction sequencing, maintenance schedule, and an Estimate of Probable Construction Cost of \$50,000. The Township has a Green Infrastructure grant from Semcog for \$46,500.

The Project Plan below is based on actual material quotes the Township received from three local nurseries, and utilization of the Township's Utility and Parks Departments labor and equipment costs.

PROPOSED PROJECT PLAN

1. PROJECT UNDERSTANDING:

Install a rain garden between Textile Road and Plat -Textile Greenway that includes a mix of native flowering perennials and shrubs as well as decorative river wash gravel, boulders, and an interpretive sign. The construction of the raingarden will require the removal of trees, some excavation, the installation of 6" storm pipe, cleanouts, a special bio-soil mix and mulch.

2. PROJECT PREPARATION:

- 2.1 Call Miss Dig
- 2.2 Acquire work in R/W permit from Washtenaw County for temporary access to site from Textile Road
- 2.3 Acquire soil and erosion control permit
- 2.4 Order plants in advance
- 2.5 Purchase storm pipe, mud mat, boulders, soil, mulch, (see plans for complete list of materials)
- 2.6 Confirm equipment is available – rent if necessary
- 2.7 Confirm Township personnel available for project

3. PRECONSTRUCTION:

- 3.1. Install Maintenance of Traffic measures
- 3.2. Install Tree Protection Measures
- 3.3. Construction Staking
- 3.4. Stantec to conduct pre-con meeting at site

4. CONSTRUCTION:

- 4.1. Mark trees for removal, approve by landscape architect
- 4.2. Install temporary access per plans and specifications
- 4.3. Install erosion control measures per plans and specifications

- 4.4. Clearing and grubbing per plans and specifications
- 4.5. Grade project area per plans and specifications
- 4.6. Install underdrains, cleanouts, flared end section per plans and specifications
- 4.7. Grades, underdrains, clean-outs and flared end section shall be inspected prior to backfilling
- 4.8. Install decorative gravel, raingarden soil mix, boulders per plans and specifications
- 4.9. Install trees, shrubs plants per plans and specifications March 1 -May 15, Oct 15 – Nov. 30
- 4.10. Install perennials, plugs, seedlings per plans and specifications March 1 -May 15, Sept. 15 – Nov. 1
- 4.11. Seed/sod disturbed areas per plans and specifications April 20 – June 15, Sept 15 – Nov. 1
- 4.12. Thoroughly water plants
- 4.13. Install Interpretive Sign

5. POSTCONSTRUCTION:

- 5.1. Remove mudmat access drive and seed area
- 5.2. Remove tree protection measures
- 5.3. Prepare punch list. Address punch list items
- 5.4. Perform maintenance, weeding, watering, etc. until end of growing season

6. MAINTENANCE – First Full Year (April 1 - October 15)

- 6.1. Spring Clean-up: inspect storm system to ensure working properly, amend any settling, clogs, or other defects that may have occurred during the winter. Replace dead or unhealthy plants, repair and freshen mulch to desired depth, and remove leaves and any debris that has accumulated. Note heavy equipment shall not enter the rain garden in order to avoid compacting soil.
- 6.2. As needed: Replace dead or unhealthy plants, repair and freshen mulch particularly after each rain event.
- 6.3. Weekly: thoroughly water each plant and newly planted turf areas, weeding, remove leaves and any debris
- 6.4. Remove erosion control measures such as silt fence once site's vegetation is established.

7. MAINTENANCE – Second Year (April 1-October 15)

- 7.1. Spring Clean-up: inspect storm system to ensure working properly, amend any settling, clogs, or other defects that may have occurred during the winter. Replace dead or unhealthy plants, repair and freshen mulch to desired depth, and remove leaves and any debris that has accumulated. Cut back last year's plant mass from perennials and grasses. Note heavy equipment shall not enter the rain garden in order to avoid compacting soil.
- 7.2. Weekly: thoroughly water replacement plants unless adequate rainfall has fallen within the last 7 days, weeding, remove leaves and any debris. Inspect plants for insect damage, apply treatments only if and where necessary.

8. MAINTENANCE – Each Year (April 1-October 15)

- 8.1. Spring Clean-up: inspect drainage system to ensure working properly, amend any settling, clogs, or other defects that may have occurred during the winter. Replace dead or unhealthy plants, repair and freshen mulch to desired depth, and remove leaves and any debris that has accumulated. Cut back last year's plant mass from perennials and grasses. Note heavy equipment shall not enter the rain garden in order to avoid compacting soil.
- 8.2. As needed: weeding, remove leaves and any debris. Inspect plants for insect damage, apply treatments only if and where necessary.