



Stantec
733 Marquette Ave.
Suite 1000, Minneapolis MN 55402

March 30, 2020
File: 19380000

Attention: Dan Buchholtz, Administrator
City of Spring Lake Park
1301 81st Avenue NE
Spring Lake Park, MN 55432

**Reference: 83rd and Fillmore Proposed Pond Improvements
Engineering Work Scope**

Dear Dan,

The city has recently been notified of possible grant funding from the Coon Creek Watershed District (CCWD) for a portion of the project costs for improvements on an existing city storm water pond located on the northeast corner of 83rd Avenue and Fillmore Street. A concept of the proposed improvements is shown on the attached figure. This letter serves as an estimate of the engineering scope of services and cost for the project.

Project Understanding

The City of Spring Lake Park is considering a pond improvement project in the northeast corner of the intersection of 83rd Avenue NE and Fillmore Street NE. The existing pond functions as a detention pond with a drainage area of the 6.2 acres that flows to the pond via city storm sewer and overland flow from the surrounding residential neighborhood.

The project includes modifications to existing stormwater pond with the primary intent to remove pollutants in the stormwater and provide additional storm water storage volume.

It is proposed to install an infiltration bench into the existing pond to enhance to water quality benefits to the downstream water bodies. The footprint of the pond will also be expanded which will improve the water quality benefits of the project by increasing the residence time of the pond. The project will also include modifications to the outlet piping. In addition to the water quality benefits, the proposed modifications include an expansion of the pond, which will benefit water quantity/flood mitigation issues the City currently has in their downstream storm system.

The existing pond and extents of the proposed project are all within City owned property and right-of-way. The City identified this project as a priority and included it in its Capital Improvements Projects (CIP) list in the current Local Surface Water Management Plan (LSWMP).

The project area includes a wetland. The area of wetland was graded as a pond in 1991 but, according to the original 1948 plat, the pond may have been dug in a wetland and thus would still be jurisdictional and work within it would require approvals per the Wetland Conservation Act and 404 permit rules. The project will require a wetland delineation to determine the extent of the existing pond, research on historic wetland extent and permitting for the proposed work that may impact jurisdictional wetland.

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Scope of Services

We recommend proceeding in steps and to evaluate the feasibility of completing the project on a step by step basis. In their message to the City regarding the grant, the CCWD stated for following concerns: *One item of note that came up during review of your application is the potential for high groundwater to limit your ability to install an infiltration bench at this location.*

We suggest that the initial steps for the project include the following:

- Geotechnical boring to verify soil type and groundwater elevation.
- Wetland Delineation and Permitting.
- Topographic survey.

Once the initial steps above are completed, the city can talk with CCWD to see if the project is still feasible from their standpoint.

A detailed scope of services to meet the project understanding is below.

Geotechnical Boring and Groundwater Level Determination

It is assumed that the Public Works Director would coordinate this effort like what was done on the Garfield Pond Project.

Wetland Delineation

Wetlands will be identified using standard delineation methodology described in the 1987 Army Corps of Engineers Wetland Delineation Manual as required by Section 404 of the Clean Water Act. If a wetland is found, a transect will be completed along the wetland edge. As required by the Corps of Engineers, a plot will be placed in an area that meets the criteria to be a jurisdictional wetland. Subsequent plots will be placed upslope until jurisdictional wetland criteria are not met. At least one upland plot and one wetland plot will be documented on the Routine Wetland Delineation Data Form filled out for each transect. The wetland boundary will be staked and surveyed using a Sub-meter GPS unit. As part of the site visit, we will also determine the extent of waterways and creeks within the property if they exist.

A wetland delineation report will be prepared for the wetland determination/delineation that includes all the necessary documentation and figures to comply with Federal, State, and local Agencies to document if a site is a jurisdictional wetland. The report will be provided to the City for review and then submitted to the agencies for concurrence with the delineated wetland boundary.

If requested by the agencies and the client Stantec will attend an agency meeting to review the wetland delineation in the field as an additional service.

Wetland Permitting

Proposed pond improvements will require concurrence from the agencies that they are not jurisdictional or if jurisdictional approval of the proposed impacts. A Joint Application Form for Activities Affecting Water Resources will be filled out and submitted to the agencies for review and approval.

As part of the application Stantec will complete the following:

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- Prepare a narrative discussing the project purpose, need and schedule for implementation.
- Review information to estimate the historic wetland extent and provide documentation if needed for approval of the permit request.
- Prepare an exhibit that shows and quantifies temporary and permanent wetland/water resource impacts.
- Fill out Aquatic Resource Impact Summary Table.
- If applicable, provide supporting information for why the project is exempt from requiring wetland replacement in accordance with Minnesota Rule Chapter 8420.0420 Exemption Standards.
- Prepare avoidance and minimization measures narrative.
- Stantec will also assist in coordinating with the purchasing of wetland bank credits, if needed; The cost of the credits is not included in our estimate.

If requested by the agencies and the client Stantec will attend an agency meeting to review the permit as an additional service.

Topographic Survey and GSOC Locates

A topographic survey of the pond area and nearby storm sewer will be completed. The survey will include requesting a Gopher State Once Call (GSOC) utility field locate ticket to identify the presence of existing underground utilities in the proposed project area.

Design, Permits, and Bidding

If the CCWD agrees with the project based on the wetland process and the geotechnical report, construction plans and specifications will be prepared. The final design, permitting, and bidding will occur similar to the process that was followed for the Garfield Pond Improvements process.

Compensation

We propose to complete the Basic Services as outlined in this letter on a per diem basis. The work will be completed in steps and can halted at any point along the process. The estimated engineering costs below include reimbursable expenses.

Geotechnical	\$ 2,000 (budget amount, it is assumed that the city will contract this directly)
Wetlands	\$ 7,400
Topo Survey	\$ 1,200
Design, Permits, Bidding	\$ 9,800
TOTAL	\$20,400

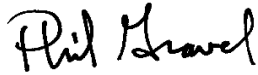
The above cost estimate is \$7,400 higher than the amount originally estimated in the grant application because wetland delineation and permitting was not anticipated when the grant application was prepared. The above estimate does not include fees that may be charged for permits or permit reviews.

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At this time, we request authorization to proceed with the design phase for the proposed 83rd and Fillmore Pond Improvements project. We will coordinate the step by step activities with you and not proceed to final design without your direction.

Please feel free to contact Peter Allen (storm water), John Smyth (wetlands), or me (general) with any questions or if you require any additional information.

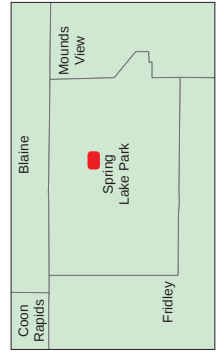
Sincerely,
STANTEC

A handwritten signature in black ink that reads "Phil Gravel". The signature is written in a cursive, flowing style.

Phil Gravel
City Engineer

Enclosures

cc: Terry Randall, Public Works Director



Fillmore & 83rd Infiltration Improvements

Spring Lake Park, Minnesota



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Revised: 2020-05-14 by J. J. J. J.

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