

CITY COUNCIL AGENDA ITEM
CITY OF SHORELINE, WASHINGTON

AGENDA TITLE:	Authorize the City Manager to Execute a Contract with The Watershed Company for the Design of the Meridian Park Wetland Drainage Improvement Project		
DEPARTMENT:	Public Works		
PRESENTED BY:	Tricia Juhnke, Capital Project Administrator Ross Heller, Project Manager		
ACTION:	<input type="checkbox"/> Ordinance	<input type="checkbox"/> Resolution	<input checked="" type="checkbox"/> Motion
	<input type="checkbox"/> Discussion	<input type="checkbox"/> Public Hearing	

PROBLEM/ISSUE STATEMENT:

Staff is requesting Council to authorize the City Manager to execute a contract with The Watershed Company for the design of the Meridian Park wetland drainage improvement project in the amount of \$65,009.

The wetlands within Meridian Park are in need of work to restore habitat and improve the storm water detention. This project is part of the plan to address the deficiencies, reduce the risks of flooding and replace failing infrastructure in the Thornton Creek Basin. This project was adopted as part of the 2012-2016 Capital Improvement Plan in June, 2011. This project is scheduled for construction in the summer of 2012.

RESOURCE/FINANCIAL IMPACT:

The table below shows the project financial summary as adopted in the 2012-2016 Capital Improvement Plan:

Project Costs

Project Administration		
	This Contract	\$ 65,009.00
	City Costs	\$ 27,601.00
Construction		\$ 250,390.00
Total Project Costs		\$ 343,000.00

Project Revenue

King County Flood Zone District	\$ 148,014.00
Surface Water Capital Fund	\$ 194,986.00
Total Revenue	\$ 343,000.00

RECOMMENDATION

Staff recommends the Council to authorize the City Manager to execute a contract with The Watershed Company in the amount of \$65,009 for the design of the Meridian Park wetland drainage improvement project.

Approved By: City Manager *DT* City Attorney *IS*

INTRODUCTION

The wetlands within Meridian Park are in need of work to restore habitat and improve the storm water detention. This project is part of the plan to address the deficiencies, reduce the risks of flooding and replace failing infrastructure in the Thornton Creek Basin. The project is bound by N 170th Street to the north, Wallingford Avenue N to the east, N 167th Street to the south, and Ashworth Avenue N to the west. The project goals include:

- Improve stormwater detention in the wetland
- wetland habitat restoration
- water quality improvements
- passive recreational improvements within the park.

This item is for approval of the design contract. The detailed scope and fee proposal can be found in Attachment A. The Watershed Company will complete the design of a wetland restoration in Meridian Park to enlarge the wetland, improving downstream conditions, and assist with permitting. The project includes trail enhancements for the park. The project will be constructed in the summer of 2012.

BACKGROUND

Meridian Park was originally purchased with a King County Forward Thrust bond in 1969. The park, located adjacent to N 170th and Wallingford Ave N, is approximately 3.2 acres, with the wetland comprising roughly 1 acre. The Meridian Park drainage subbasin is approximately 350 acres. This subbasin is bounded by Aurora Ave N on the west, Meridian Ave N on the east, N 172nd Street on the north, and joins Thornton Creek at N 152nd Street at Twin Ponds Park.

In 2001, residents alerted the City of Shoreline of the disappearance of frogs from the park. Investigation showed that soils and water were not ideal for invertebrates, amphibians and fish. Low pH, low dissolved oxygen, limited water depth, limited large woody debris, and the presence of several pesticides limited the survivability of amphibians and their offspring.

Additionally, there are several locations immediately adjacent and downstream of Meridian Park susceptible to stormwater-related flooding. A goal of the project is to improve stormwater detention in Meridian Park in a manner that reduces flooding and improves water quality and wetland habitat.

Funding for this project comes from the King County Flood Control District as part of a Sub-Regional Opportunity Fund Project. The estimated total project cost is \$343,000. The design contract is estimated at \$65,009.

In 2010, the City completed a design alternatives analysis and developed a conceptual design for the project. The selected consultant will be tasked with the design development and permitting of the conceptual design.

This project was reviewed as part of the 2012-2016 Capital Improvement Plan in June, 2011.

ALTERNATIVES ANALYSIS/SELECTION PROCSS

Staff formally advertised this project through the Daily Journal of Commerce on October 26 and 28, 2012. Two Statements of Qualifications were received, from Watershed Company and Pace Engineering. After review of the documents against the project scope and the schedule, City staff made the determination that Watershed Company is best suited for the design of this project.

RESOURCE/FINANCIAL IMPACT

Project Costs

Project Administration			
	This Contract	\$	65,009.00
	City Costs	\$	27,601.00
	Subtotal	\$	92,610.00
Real Estate Acquisition		\$	0.00
Construction		\$	250,390.00
Total Project Costs			\$ 343,000.00

Project Revenue

	King County Flood Zone District	\$	148,014.00
	Surface Water Capital Fund	\$	194,986.00
Total Revenue			\$ 343,000.00

RECOMMENDATION

Staff recommends the Council to authorize the City Manager to execute a contract with Watershed Company in the amount of \$65,009 for the design of the Meridian Park Wetland Drainage Improvement Project.

ATTACHMENTS

- Attachment A: Design Contract Scope and Fee
- Attachment B: Meridian Park Wetland Map

EXHIBIT A

CITY OF SHORELINE

MERIDIAN PARK WETLAND ENHANCEMENT/DRAINAGE IMPROVEMENT DESIGN AND PERMITTING SCOPE OF WORK AND FEE: ATTACHMENT A

During the term of this Agreement, The Watershed Company, (TWC) shall perform professional services for the City of Shoreline (CITY) in connection with the Meridian Park Wetland Enhancement/Drainage Improvement Design and Permitting Project (PROJECT). This Scope of Work document (SCOPE) shall be used to plan, conduct, and complete the work on the PROJECT as described herein or as amended by written Agreement between TWC and the CITY. Specific tasks and work items are outlined within this SCOPE.

BACKGROUND AND PURPOSE

This project is located at Meridian Park in Shoreline, WA in the Thornton Creek Watershed (bound by: N 170th Street to the north, Wallingford Avenue N to the east, N 167th Street to the south, and Ashworth Avenue N to the west). The purpose for this project is to provide engineering design and permitting for wetland enhancements and drainage improvements at Meridian Park. The project goals include: Improve stormwater detention in the wetland, wetland enhancement, water quality improvements, and passive recreational improvements within the park.

PAYMENT

Payment will be made at the hourly Billing Rates for personnel (attached), plus sub consultant fees from Osborn Consulting Inc. (OCI); Associated Earth Science, Inc. (AESI) and Axis Survey and Mapping (ASM)

TIME AND PERFORMANCE

TWC, OCI, AESI, and ASM will begin work on implementing the below SCOPE as soon as authorized by the CITY and will make every reasonable effort to complete the Services within 6 months of Notice to Proceed. Actual time may vary depending upon community involvement timetables and permit review timeframes.

TWC, OCI, AESI, and ASM will not be held responsible for delays, occasioned by factors beyond their control, which could not reasonably have been foreseen at the time of the execution of the Agreement.

The work will be completed as described within the following major tasks (individual costs are estimated):

Meridian Park Wetland Enhancement/Drainage Improvement Design
City of Shoreline

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EXHIBIT A

Task 1 Kickoff Meeting	\$ 1,787
Task 2 Pre-Application Meetings	\$ 5,294
Task 3 60% Design, Geotechnical Characterization, and Survey	\$ 17,437
Task 4 Begin JARPA and ESA No-effect Letter	\$ 3,693
Task 5 Submit Site Development Permits and SEPA	\$ 2,080
Task 6 Submit JARPA to Corps and Ecology	\$ 1,560
Task 7 Address SEPA comments	\$ 1,040
Task 8 Submit JARPA to WDFW	\$ 970
Task 9 90% Design	\$ 16,545
Task 10 Submit Clearing and Grading permit application	\$ 2,600
Task 11 100% Design	\$ 2,910
Task 12 Management Reserve	\$ 9,093
<hr/> TOTAL (NTE)	<hr/> \$65,009

COMPENSATION

TWC agrees to provide environmental consulting, engineering and survey services for an amount not to exceed (NTE) \$65,009 without prior written approval by TWC and the CITY.

MEETINGS AND COMMUNICATION (all tasks)

Two face-to-face meetings with city staff are included, one during project kick-off and another to present the 60% design documents to the CITY. One public meeting is included. No additional meetings are included in this scope; it is assumed that all other necessary communication and coordination with the CITY will be by telephone or email.

Project Understanding

The intent of the concept plan for the project—developed by the CITY and neighboring property owners, with the assistance of TWC and OCI—is to improve stormwater detention and reduce flooding while improving water quality, enhancing the park’s wetland and giving residents opportunities for passive recreation.

The final design process will begin with refinement of the conceptual drawings into a permit-ready plan set and conclude with development of a bid-ready design and specifications document for procurement and construction completion in summer/fall 2012. This work includes production of a 60% level of design for Public Works to review and also for inclusion in State (HPA/Ecology) and federal (Corps) permit documents. Permits from WDFW (HPA), Ecology (401) and Corps (404) are anticipated as the conceptual plan includes grading work within the wetland and removal of at least one culvert on Meridian Creek. Upon State/federal permit submittal, the plan will be taken to a 90% design level for City review and Shoreline Planning Department permits. The final component involves producing final plans and WSDOT Standard Specifications for solicitation of competitive bidding.

EXHIBIT A

Scope of Work

Task 1:

Kickoff project design meeting to determine what, if any, departures are needed from the conceptual plan and to identify key project roles among City staff, including coordination with the Public Works and Parks Departments on parks amenities extent, materials, signage, etc.

Administrative and Project Management tasks will be billed to this task.

DELIVERABLES:

1. Kickoff meeting
2. Summary memo/email

Task 2:

Arrange and attend pre-application meeting with City of Shoreline Planning, if necessary. Attend a neighborhood meeting (to be advertised and held by the CITY, if needed) to obtain early public feedback.

DELIVERABLES:

1. Meeting with planning department
2. Neighborhood open house, if determined appropriate by CITY

Task 3:

60% Design. Complete topographic surveying in northeast corner of park. Conduct geotechnical characterization of materials to be exported, to assist in finding a suitable disposal site. Submit to this information and 60% design package to Public Works for review comments. Meet to go over review comments. Preliminary discussions with agencies (WDFW, Corps). Additional discussions with City of Shoreline Planning, if needed. It is assumed that a cultural resources evaluation and Phase I Environmental Site Assessment are not necessary. If agency review determines this is necessary, additional scope and budget will be required.

Assumptions:

- No modifications to the existing HSPF model are necessary.
- FTABLE modifications will be developed in excel.
- The proposed design does not raise the wetland water surface elevation or increase downstream flow rates (compared to existing conditions), therefore, detailed upstream and downstream hydraulic analysis is not necessary.

Task 3.8 Hydroperiod Analysis

EXHIBIT A

OCI will perform a hydroperiod analysis, using HSPF, to demonstrate the design will not have adverse affects the existing wetland community and meets Department of Ecology Minimum Requirement #8: Wetlands Protection.

The Hydroperiod Analysis will be documented in the Hydrologic and Hydraulic Design Report.

DELIVERABLES:

1. Geomorphic characterization to be submitted in memo form to Public Works.
2. New contours from topographic survey to be shown on design sheets.

Plan sheets (each one sheet) to include:

3. Existing Conditions—topography, property boundaries, easements, utilities, critical areas
4. Proposed Site Plan—overview & improvements
- Grading Plan—existing and proposed contours, cut & fill locations for wetland expansion/storage volume, WSDOT specifications⁵.
6. Habitat and Landscape Improvement Plan—planting and habitat features plan, benches, trail improvements, boardwalk, signs, raingardens, etc.
7. Amenities and Details Sheet—boardwalk details, habitat features specifications, installation details, etc.
8. TESC Plan—Temporary Erosion and Sediment Control Plan
9. Engineer's Cost Estimate Spreadsheet with WSDOT Standard items, units, cost per unit, and assumptions
10. Expanded hydrologic and hydraulic analysis documented in a Design Report, including updated HSPF model files. Findings to include water surface elevations for design flows and hydroperiod analysis for regulatory compliance.
11. Meetings and reviews with Public Works and Planning; preliminary discussions with agencies.

Task 4:

Begin work on JARPA form to apply for HPA, Ecology 401, and Corps 404 permits. Incorporate review comments and reformat the 60% plan set for inclusion in the JARPA permit set and City permit set. Preparation of a No Effect Letter per Endangered Species requirement. Project is below one acre threshold, therefore it is assumed that neither a Stormwater Pollution Prevention Plan (SWPPP) is not required nor an NPDES permit is required. It is also assumed that a Cultural Resources Report is not necessary for this project.

Task 5:

EXHIBIT A

Finalize and submit to City of Shoreline Planning for site development permit. Submit SEPA checklist concurrently with permit applications.

DELIVERABLE:

1. SEPA checklist
2. Site Development Permit application

Task 6:

Finalize and submit JARPA to Corps and Ecology. Ready JARPA for submittal to WDFW pending issuance of SEPA determination (WDFW will not accept prior to complete SEPA process).

DELIVERABLES:

1. JARPA form to apply for HPA
2. JARPA form to apply for Ecology 401 and Corps 404 permits

Task 7:

Consult with City on addressing SEPA comments, including comments from the Muckleshoot Tribe.

Task 8:

Submit JARPA to WDFW upon issuance of the SEPA determination.

Task 9:

90% Design. Produce grading plans, planting plans, park amenities details and standard WSDOT specifications to a 90% complete level. Submit to Public Works for review comments. Meet to go over review comments.

Assumes City of Shoreline to provide templates for Construction Contract Documents and Division 1 Specifications.

DELIVERABLES:

1. Plan sheets (each one sheet) to include:
2. Existing Conditions—topography, property boundaries, easements, utilities, critical areas
3. Proposed Site Plan—overview & improvements
Grading Plan—existing and proposed contours, cut & fill locations for wetland expansion/storage volume, WSDOT specifications⁴.
5. Habitat and Landscape Improvement Plan—planting and habitat features plan, benches, trail improvements, boardwalk, signs, raingardens, etc.
6. Amenities and Details Sheet—boardwalk details, habitat features specifications, installation details, etc.
7. TESC Plan—Temporary Erosion and Sediment Control Plan

EXHIBIT A

8. Revised 90% Engineer's Cost Estimate Spreadsheet with items, units, cost per unit, and assumptions

Task 10:

Submit clearing and grading permit application to City of Shoreline Planning.

DELIVERABLE:

1. City Clearing and Grading permit application

Task 11:

Finalize plans and specifications set to 100% and furnish to Public Works for competitive bidding. It is assumed the contractor will develop a staking plan if deemed necessary.

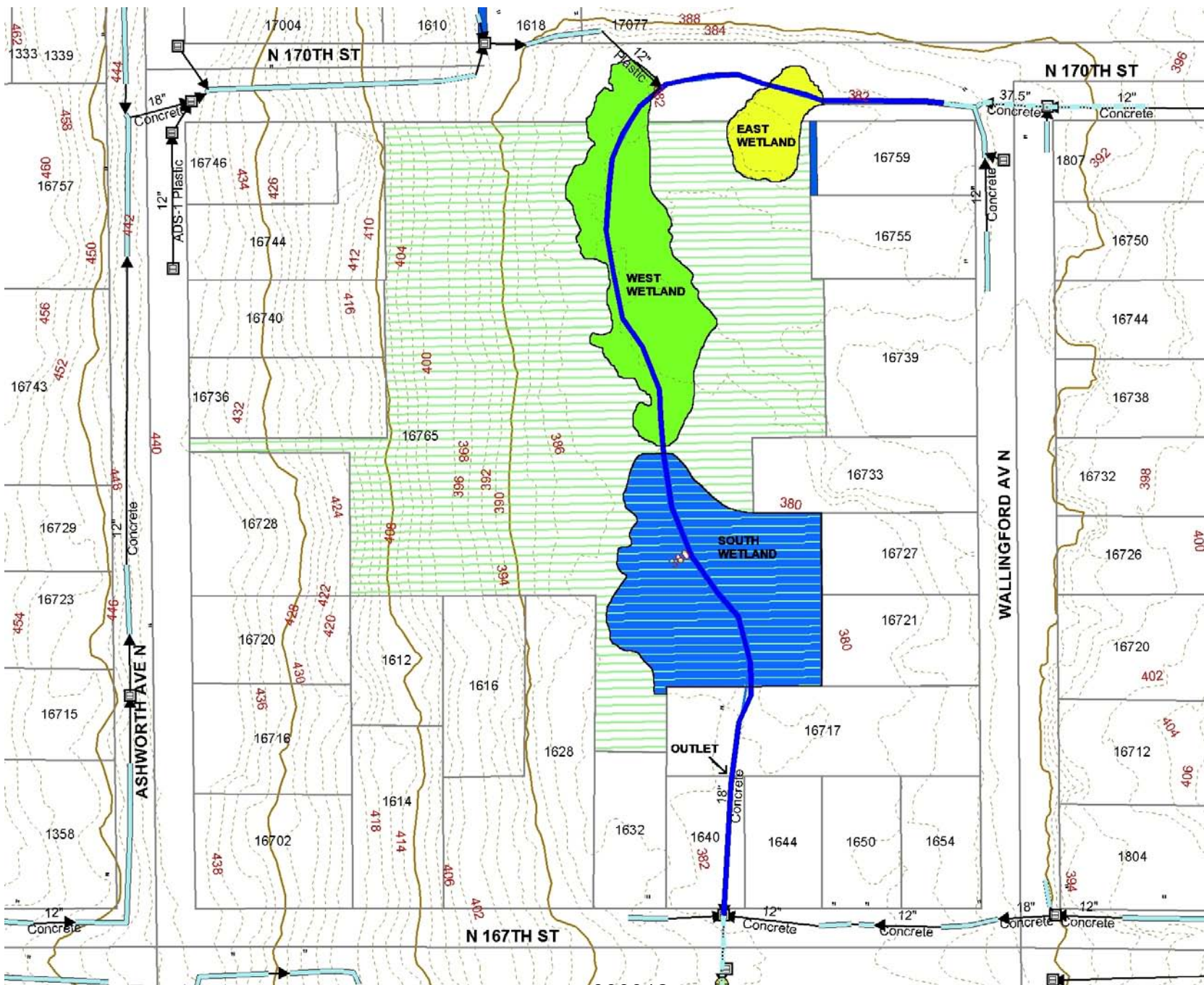
DELIVERABLES:

100% versions of Task 9 Deliverables.

Task 12:

Additional modeling or design work may be required for permitting. If directed by the City, TWC will provide services needed to assist the City with tasks related to this project that were not specifically addressed in this scope of work. When requested by the City, TWC will provide a scope and budget for the task identified by the City. TWC will not proceed with the task until written authorization has been provided by the City.

Attachment B – Meridian Park Wetland



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