CITY OF SPOKANE PARKS & RECREATION

**Special Meeting Notice/Agenda**
**City of Spokane Park Board**
**Riverfront Park Committee**
Monday, July 11, 2016, 8:05 a.m.
City Council Briefing Center, Lower Level, City Hall
Jon Moog – Director, Riverfront Park

**Committee Members:**
McGregor, Ted – Chairperson
Kelley, Ross
Selinger, Samuel
Traver, Susan

A special meeting of the City of Spokane Riverfront Park Committee will be at 8:05 a.m. Monday, July 11, 2016, City Council Briefing Center, City Hall, 808 W. Spokane Falls Boulevard, Spokane, Washington.

The meeting will be conducted in a standing committee format for the Riverfront Park Committee of the City of Spokane Park Board. Because a quorum of the Park Board may be present, the standing committee meeting will be conducted as a committee of the whole board.

The meeting will be open to the public, with the possibility of moving into executive session only with the members of the Park Board and appropriate staff. Discussion will be limited to appropriate officials and staff. Public testimony may be taken at the discretion of the committee chair.

## Agenda

**Information Items:**

| | |
|---|---|
| 1. Public Comment – IMAX Theatre | Hal McGlathery |
| 2. Initial 2017 Riverfront Park budget review | Jeff Bailey |

**Action Items**:

| | |
|---|---|
| 1. Wheels Park 30% design | Ted McGregor |
| 2. MOU with City of Spokane for water transmission line improvements | Berry Ellison |
| 3. Special inspection contract with Strata Engineering | Berry Ellison |
| 4. Park-wide geotechnical engineering contract with GeoEngineers | Berry Ellison |
| 5. Maintenance and Operations Building study | Berry Ellison |

**Discussion Items:**

| | |
|---|---|
| 1. Collins Group | Ted McGregor |
| 2. South Bank food service venue | Jon Moog |

**Standing Report Items**:

| | |
|---|---|
| 1. June financials | Jon Moog |

*Agenda is subject to change*

**AMERICANS WITH DISABILITIES ACT (ADA) INFORMATION:** The City of Spokane is committed to providing equal access to its facilities, programs and services for persons with disabilities. Individuals requesting reasonable accommodations or further information may call, write, or email Lisa Richards at (509) 625-6909, 808 W. Spokane Falls Blvd., Spokane, WA, 99201; or lrichards@spokanecity.org. Persons who are deaf or hard of hearing may contact Ms. Richards at (509) 625-6909 through the Washington Relay Service at 7-1-1. Please contact us forty-eight (48) hours before the meeting date.

# Riverfront Park Committee
# Agenda Action Item Fact Sheet

Meeting date: July 11, 2016

Presented by: Ted McGregor

**Action Item (Language shall match the language on the agenda.):**

Wheels Park 30% Design

**Action Item Description:**

Contract to develop concept design for Wheels/Skate Facility in Riverfront Park. Concept Design to include the layout and grading for 8,500sf facility with a construction budget range of $400,000-$900,000. Up to three workshops with Skate Community and 30% design drawings.

**RFP Bond Budget Impact (Describe as budgeted or non-budgeted.):**

Non-budgeted

**Non RFP Bond Budget Impact (i.e., Park Fund or Cumulative Reserve):**

$30,000

**Executive Team Recommendation:**

None

**Urgency for Approval (describe impact if not approved):**

The Major Public Spaces team is underway with Schematic Design. If the Wheels Facility is to be considered, now is the most advantageous time to add this scope of work.

**Options for Not Approving:**

Consider alternate location(s)

# Memo

| | | | |
|---|---|---|---|
| **To:** | Berry Ellison, City of Spokane | **Date:** | 05.06.16 |
| **From:** | Todd Bronk | **Page:** | 1 of 1 |
| **Subject:** | Wheels / Skate Facility Proposal | | |

Please find below a base fee estimate below for the Riverfront Park, North Bank Wheels Facility as shown in the attached exhibits to this memorandum. This proposal serves as a starting point for the City and is based on an assumed $900,000 construction budget provided by the City the week of 05-02. A formal proposal will be provided as a follow up when requested based on City input to the attached exhibits, the proposed design process in the attached proposal exhibit from Grindline, and any further information on the facility and adjacent use and needs that are developed during further design refinement on Riverfront Park.

North Bank Wheels Facility:

**Berger Partnership** $5,850.00

- General Scope to 30% Design: Prime consultant providing design integration, community workshop attendance as needed, support graphics for contextual studies of Wheels Facility. Includes 4% mark-up for sub-consultants.

**Gridline** $21,150.00

- General Scope to 30% Design: Refer to attached proposal exhibit for details. Summary: Concept design, outreach, and development of 30% Design (geometry, grading, layout) for Wheels Facility of approximately 8500 square feet.

**Reimbursable / Expenses / Travel** $3,000.00

**Total Fee Estimate:** **$30,000.00**

Landscape Architecture
Urban Design

Berger Partnership PS
1721 8th Ave N
Seattle, WA 98109

206 325 6877
bergerpartnership.com

GRINDLINE
CONCRETE SKATEPARK DESIGN & CONSTRUCTION

**PROPOSAL FOR DESIGN SERVICES – RIVERSIDE PARK SKATEPARK, SPOKANE**

Proposal Submitted To:
Todd Bronk
The Berger Partnership
1721 8th Avenue N
Seattle, WA 98109-3015

**PROJECT DESCRIPTION:** Professional design services for a skatepark of approximately 8,500 square feet (estimated project budget $900,000) at City of Spokane's planned Riverside Park.

**TASK 1. PROJECT STARTUP**

**a) Project Kick Off Meeting:** The Design Team and Client will review current site information (Master Plan and Survey) and discuss how skatepark improvements will integrate with current and future park elements. The Design Team will determine if any additional survey information is needed to commence design. The Design Team and Client will finalize the project objectives including scope, schedule and budget. A communication plan will be made to identify preferred communication methods. Key meetings and deliverables will be scheduled and areas requiring coordination such as public meetings, online forums and exchange/review of documents will be identified.

**b) Site Visit:** The Design Team and Client will do a site visit to review the existing conditions of the proposed site and explore opportunities and constraints of the site. Items such Vehicular, Pedestrian and Utility Integration, Required/Desired Amenities, and Permitting Requirements will be discussed and solutions proposed for identified items.

**c) Community Meeting #1:** Design Team will engage community members and stakeholders in a public input meeting on the skatepark design. This meeting will introduce Grindline to community, explain the design/public input process, and share how the community drives the project development. This meeting is open forum for public to view the concept presented with the proposal and provide input that will drive the development of the design concepts. Community members will be given an opportunity to provide input via verbal, written or online participation. The project Facebook page will be used to promote the Skatepark project and post concepts so community members can access project information online and make comments for consideration.

**d) Design Review Meeting:** Via phone conference/online meeting, Design Team and Client will discuss input from kick off meeting, site visit and Community Meeting. Client will provide direction so Design Team can begin development of the Conceptual Designs.

**(Sample) Task 1 Deliverables & Final Products:**
A summary report for the site summarizing the results of the Project Startup Meetings for the Client to review and approve, including:

• Brief narrative listing the site constraints and opportunities and an inventory/analysis of potential skatepark area
• Finalized Program, Schedule, and Budget for remainder of Design process
• Summary of Public Input Report from 1st Community Meeting.

**TASK 2. CONCEPTUAL DESIGN**

**a) Preliminary Conceptual Design:** The Design Team will develop 2 Preliminary Concepts based on information from Project Startup Report and submit to Client for comment. The skatepark designs will be coordinated with any other proposed Master Plan improvements. The concepts will include the 3D renderings of the skatepark and include preliminary cost estimates.

**b) Design Review meeting:** The Grindline will meet with City and Design Team in Spokane to discuss the preliminary concepts. City will provide direction to refine concepts prior to Community Meeting #2

**c) Community Meeting #2:** In a meeting similar to Community Meeting #1, Grindline will return to Spokane to present the Preliminary Concepts and collect feedback. Concepts will be presented through a combination of photos, Power Point slides, large presentation boards, and interactive 3D models. This allows us to "walk or skate around the design" as well as pull dimensions upon request from the audience. We will use the project's Facebook page to distribute the image and get feedback from the committee and community.

**(Sample) Task 2 Deliverables & Final Products:**
• Preliminary Conceptual Designs suitable for display showing the site plan and program elements to scale. Submittal to include plan and 3d perspective views and will be submitted in digital format
• Preliminary Cost Estimates with quantity of materials estimates for concepts

**TASK 3. FINAL DESIGN – 30% Drawings**

**a) Design Review Meeting:** The Design Team and Client will discuss input from the 2nd community meeting and comments posted on the projects' facebook forum via phone conference/online meeting. Client will provide direction so Design Team can begin development of the Final Design.

**b) Final Design:** The Design Team will create a Preferred Concept and submit to the Client for review. This will finalize the skatepark and include collaboration with Berger on any landscaping, amenities, and storm water management components directly related to the skatepark. Grindline will coordinate with Berger on the design of any amenities and connections adjacent to the skatepark. The Final Designs are a complete build out of the skateparks and non-skatepark components. The Client's review comments will include information and changes relevant to local and state building codes and permits. Design Team will provide detailed line item cost estimates and updated schedule.

**c) Design Review Meeting:** The Grindline will meet with City and Design Team in Spokane to discuss the preferred concept. City will provide direction to refine concept prior to Community

Meeting #3.

**d) Community Meeting #3:** Grindline will return to Spokane to host the 3rd community meeting for community members and stakeholders to present the Preferred Concept. The Designs will be presented similar to task 2b and the public will be updated on the project schedule though completion dates.

**(Sample) Task 3 Deliverables & Final Products:**

- Preferred Concept suitable for display showing the site plans and program elements to scale. Submittal to include plans and 3d perspective views and will be in digital format
- Final Cost Estimates with quantity of materials estimates for approved designs.

## Grindline Skateparks
## Design Services - Riverside Park Skatepark

| *Item* | *Labor* | *Quantity* | *Unit* | *Rate* | *Cost* | ***Totals*** |
|---|---|---|---|---|---|---|
| **TASKS 1-4: DESIGN** | | | | | | |
| | Project Startup, Kick Off & Site Meeting, Community Meeting #1 | | | | | **$4,150.00** |
| | Principal | 8 | hrs | $125.00 | $1,000.00 | |
| | Lead Design | 24 | hrs | $125.00 | $3,000.00 | |
| | Design Associate | 2 | hrs | $75.00 | $150.00 | |
| | Conceptual Design, Review Meeting, Community Meeting #2 | | | | | **$8,500.00** |
| | Principal | 16 | hrs | $125.00 | $2,000.00 | |
| | Lead Design | 40 | hrs | $125.00 | $5,000.00 | |
| | Design Associate | 20 | hrs | $75.00 | $1,500.00 | |
| | Final Design (30% Set), Review Meeting, Community Meeting #3 | | | | | **$8,500.00** |
| | Principal | 8 | hrs | $125.00 | $1,000.00 | |
| | Lead Design | 30 | hrs | $125.00 | $3,750.00 | |
| | Design Associate | 50 | hrs | $75.00 | $3,750.00 | |
| | Construction Documents (50/90/100%, Specifications & Permitting) | | | | | **$0.00** |
| | Principal | | hrs | $125.00 | $0.00 | |
| | Lead Design | | hrs | $125.00 | $0.00 | |
| | Design Associate | | hrs | $75.00 | $0.00 | |
| | | | | | **Grindline subtotal** | **$21,150.00** |
| **EXPENSES** | | | | | | **$3,000.00** |
| | Travel/Printing | 1 | ls | $3,000.00 | $3,000.00 | |

All work, including additional services requested, will be billed at the hourly rates below

**Grindline Skateparks, Inc.**

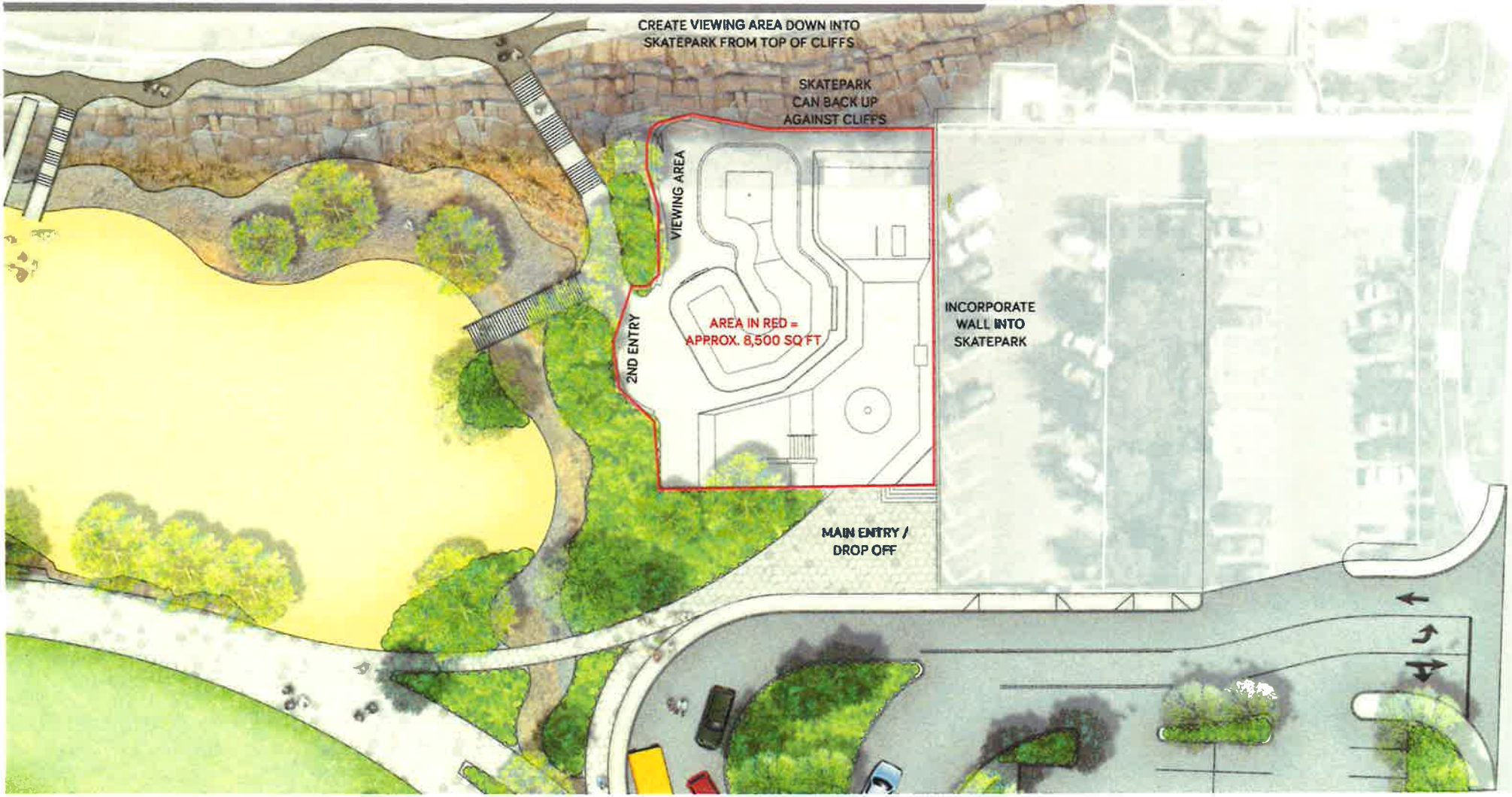
| | |
|---|---|
| Project Director, Principal | $125.00 per hour |
| Project Manager, Associate | $75.00 per hour |
| Lead Designer, Principal | $125.00 per hour |
| Design Associate | $85.00 per hour |
| Landscape Architect | $125.00 per hour |
| CAD Technician | $55.00 per hour |
| Clerical/Administration | $55.00 per hour |

Grindline Skateparks appreciates the opportunity to work with The Berger Partnership and the City of Spokane on this next skatepark project. It is our understanding with this proposal that the skatepark's related budget is $900,000 and estimated to allow for 8,500 sq ft of skate surface. Thank you for the opportunity to provide you with a proposal. We look forward to working with you and adjusting the above scope and deliverables based on the final services desired. If we can be of any further assistance, please call me on 206-932-6414.

Sincerely,

Micah Shapiro
Grindline Skateparks
(206) 932-6414

## RIVERFRONT PARK SKATEPARK LAYOUT - MAY 6TH, 2016




RIVERFRONT PARK

PARTNERSHIP berger GRINDLINE CONCRETE SKATEPARK DESIGN & CONSTRUCTION ch2m LAND EXPRESSIONS CITY OF SPOKANE

# RIVERFRONT PARK SKATEPARK SIZES - MAY 6TH, 2016

Neighborhood Skatepark (skatespot) - up to 8,000 sq ft
Cost $75,000 - $320,000
A neighborhood skatepark is usually designed to meet the needs of the immediately adjacent community. They tend to consist of smaller staple skate features that allow users to focus on building their skills. They can also contain unique features if they are designed to compliment nearby larger facilities.

District Skatepark - 8,000 sq ft - 20,000 sq ft
Cost - $320,000 - $900,000
**The larger size of a District Skatepark allows it to include a greater variety of features that might not fit into in a neighborhood park. District Skateparks usually have multiple skating areas to allow for numerous users to use the facility simultaneously.**

Regional Skatepark - 20,000 sq ft and up.
Cost - $900,000 - $5,000,000
Facilities of this scale provide a regional /national draw for skateboard tourism as well as a venue that will attract large events. A Regional Skatepark usually has some type of signature feature or multiple signature features that make it stand out and provide a unique experience for the end user.

RIVERFRONT PARK

PARTNERSHIP berger GRINDLINE CONCRETE SKATEPARK DESIGN & CONSTRUCTION ch2m LAND EXPRESSIONS CITY OF SPOKANE












## KIWANIS SKATEPARK

Location: Yakima, WA. (2007-2008)
Skate Facility Size: 11,000 sf
Skate Facility Type: Wheels Facility
Project Cost: $348,000

Key Features:

- -Accomodates all skill levels.
- -Constructed within existing park, built around numerous mature trees.
- -Includes both "skate bowl" and "street course" to include multiple user groups.

## MARTIN ROAD PARK

Location: Amarillo, TX. (2007)
Skate Facility Size: 6,600 sf
Skate Facility Type: Wheels Facility
Project Cost: $210,000

Key Features:

- -"Street course" style skating.
- -Constructed within existing park adjacent to existing trees.
- -Utilizes natural site topography & minimal grading to inform skatepark layout.

## HIDEAWAY SKATEPARK

Location: Winter Park, CO. (2007-2010)
Skate Facility Size: 8,000 sf (phase 1)
6,000 sf (phase 2)
Skate Facility Type: Wheels Facility
Project Cost: $344,000 (phase 1)
$210,000 (phase 2)

Key Features:

- -Accomodates all skill levels.
- -Constructed within existing park, adjacent to existing stream.
- -Incorporates manicured landscape plantings and park views into facility.

## BINGEN SKATEPARK

Location: Bingen, WA. (2010-2014)
Skate Facility Size: 9,500 SF
Skate Facility type: Skate Facility
Project Cost: $364,000

Key Features:

- -"Looped" layout to create a skate racetrack.
- -Constructed within existing city park.
- -Large existing tree preserved and integrated into middle of skate area.

What separates a 'Wheels Facility' from a typical 'Skatepark'? Wheel's facilities focus on adding ACCESSIBILITY...
...Ensuring any wheeled device, including wheelchairs, can access skate park components.

CITY OF SPOKANE PARKS &RECREATION

# Wheels Facility | Comparable Projects | 6,000 sf - 14,000 sf

# Riverfront Park Committee
# Agenda Action Item Fact Sheet

Meeting date: July 11, 2016

Presented by: Berry Ellison

**Action Item (Language shall match the language on the agenda.):**

MOU with City of Spokane for Wastewater Transmission Line Improvements

**Action Item Description:**

This document memorializes an inter-departmental arrangement where City Utilities Dept will be financially responsible for all costs (design, construction, and construction management) for the replacement of an existing water transmission line in the Howard St South Channel Bridge alignment

**RFP Bond Budget Impact (Describe as budgeted or non-budgeted.):**

The Utility Department is agreeing to reimburse the Bond up to $150,000. However, the anticipated cost is expected to be $103,057.50 including design and contingencies.

**Non RFP Bond Budget Impact (i.e., Park Fund or Cumulative Reserve):**

none

**Executive Team Recommendation:**

Staff recommends approval.

**Urgency for Approval (describe impact if not approved):**

The MOU must be heard and approved by the City Council following Park Board approval.

**Options for Not Approving:**

The Bond would be responsible for the cost of replacing the water line.

City Clerks No._____

**CITY OF SPOKANE**
**INTERDEPARTMENTAL REIMBURSEMENT**
**MEMORANDUM OF UNDERSTANDING**

**RE: New Riverfront Park HSBS Construction and the Utilities Water Main**

THIS MEMORANDUM OF UNDERSTANDING ("MOU") is between the City of Spokane Parks and Recreation Department ("Parks"), and the Utilities Division ("Utilities"), both parties being Departments of the City of Spokane, a Washington State municipal corporation, whose address is 808 West Spokane Falls Boulevard, Spokane, Washington 99201. Hereafter referenced individually as a "party", and together as the "parties".

1. **PURPOSE:** The City of Spokane Parks and Recreation Department owns and operates Riverfront Park located in the heart of downtown Spokane. Within Riverfront Park numerous bridges cross portions of the Spokane River as it courses through the City. One particular bridge, the Howard Street Bridge South ("HSBS") currently houses a vital Utilities Division 10-inch Water Transmission Main ("Water Main"). The HSBS is being reconstructed during the 4 year Riverfront Park Rehabilitation Project, funded via a voter approved $64 Million Parks Bond ("Bond"). Utilities requires the HSBS continue carrying the vital Water Main, which will be updated to an 18-inch Water Transmission Main, to facilitate greater flows to downtown and northwest Spokane, thus Utilities is financially contributing to the construction costs necessary to ensure its upgrade from a 10 inch to 18 inch Water Main and corresponding installation during the HSBS construction process.

The purpose of this MOU is to memorialize this inter-departmental arrangement wherein Utilities agrees to be financially responsible for all costs necessary for the new replacement HSBS to continue carrying the Water Main across the south channel of the Spokane River. Current construction cost estimates for the installation of the 18 inch Water Main onto the replacement HSBS is expected to be approximately SEVENTY FIVE THOUSAND AND FIVE HUNDRED

DOLLARS ($75,500.00), and is subject to public bidding requirements. The parties agree that Utilities is solely financially responsible for any and all costs associated with the Water Main installation onto the replacement HSBS. Estimation of construction contingency (10% admin reserve), construction management (15% of construction plus contingency), and design (10% of bid price) costs multiply the construction cost by 1.365. For a bid cost of $75,500, this brings the reimbursement cost to $103,057.50. The reimbursement request should not exceed $150,000.

Utilities will reimburse Parks directly after costs have been incurred.

**2. PARKS HSBS REPLACEMENT PROJECT BACKGROUND:**

HSBS Construction ("Work") will begin late summer of 2016, with demolition and removal of the current HSBS and Water Main installation slated to commence as early as September, 2016. Work is expected to take fourteen (14) months, carrying into fall of 2017. The Water Main will be out of commission for most of that period of time.

a. The Howard Street South Channel Bridge (HSBS) is located in Riverfront Park immediately north of the Rotary Fountain, and crosses the South channel of the Spokane River.

b. This HSBS Replacement Project will remove and replace the existing HSBS due to the degraded condition of the current bridge. For several years, HSBS has been limited to use only over the outside portions of the bridge. The new HSBS will be built in nearly the identical footprint as the old bridge, although will be an updated, streamlined structure.

c. The existing HSBS also carries a Utilities 10-inch Water Transmission Main across the south channel of the Spokane River. The new HSBS will house an upgraded 18-inch Water Transmission Main, updated to facilitate greater flows to downtown and northwest Spokane.

**3. UTILITIES OBLIGATIONS:**

Utilities shall be responsible for all design and construction costs associated and necessary to the Water Main installation to the replacement HSBS. This Utilities responsibility includes all related Water Main and HSBS Engineering, Design, and Public Works competitive bidding (as identified in RCW 39.04), followed by construction necessary to complete the Water Main installation as part of the replacement HSBS Project.

**4. PARKS OBLIGATIONS:**

Parks shall be responsible for all design and construction costs associated and necessary to the replacement of HSBS. This Parks responsibility includes all related HSBS Engineering, Design, and Public Works competitive bidding (as

identified in RCW 39.04), followed by the associated construction Work necessary to complete the replacement HSBS Project.

**5. PARTIES MUTUAL OBLIGATIONS:**

Each party to this MOU are independently responsible for compliance with all federal, state, local laws and ordinances related to the subject matter of this MOU. Each party to this MOU are independent Departments within the City of Spokane, with employees and agents acting solely within the confines of their own related Department, and not under the influence or control of the other party.

Dated this _____ day of _____, 2016.

| | |
|---|---|
| UTILITIES DEPARTMENT | CITY OF SPOKANE<br>PARKS AND RECREATION |
| _____ | _____ |
| Director | Director |

CITY OF SPOKANE

_____

CITY ADMINISTRATOR

| | |
|---|---|
| Attest: | Approved as to form: |
| _____ | _____ |
| Clerk | City Attorney |

Attachments that are part of this MOU:

16-549

Public Safety Building

Spokane Police Department

W Mallon Ave

N Monroe St

W Mallon Ave

W Mallon Ave

N Lincoln St

N Post St

W North River Dr

North Bank Park

N Washington St

W North River Dr

County Courthouse

W Broadway Ave

Broadway Ave

N Madison St

N Monroe St

N Lincoln St

N Washington St

W College Ave

Upper Falls Dam

Spokane County Health Dept.

W Summit Pkwy

W Summit Pkwy

N Post St

Rivefront Park

Monroe Street Dam

Pkwy

N Monroe St

UPGRADE 12" WATER LINE TO 18" WATERLINE

N Stevens St

Convention Center

City Hall

W Spokane Falls Blvd

W Spokane Falls Blvd

W Spokane Falls Blvd

City of Spokane GIS

7/8/14 RSE

# Riverfront Park Committee
# Agenda Action Item Fact Sheet

Meeting date: July 11, 2016

Presented by: Berry Ellison

**Action Item (Language shall match the language on the agenda.):**

Special Inspection Contract with STRATA Engineering

**Action Item Description:**

This contract retains STRATA to perform special inspection and testing services on a park-wide basis. Special inspection include compaction, soil and aggregate testing, reinforced steel placement, concrete testing, structural concrete and steel observation and testing.

**RFP Bond Budget Impact (Describe as budgeted or non-budgeted.):**

A park-wide comprehensive fee for this service is estimated to be approximately $200,000. Each project will be negotiated separately as designs are developed. The initial cost is expected to be $84,120 for the Recreation Rink and Howard St South Channel Bridge.

**Non RFP Bond Budget Impact (i.e., Park Fund or Cumulative Reserve):**

**Executive Team Recommendation:**

Staff recommends approval.

**Urgency for Approval (describe impact if not approved):**

Retaining this service is required prior to beginning construction (September 2016)

**Options for Not Approving:**

This is a required service however delay to August may not negatively impact the project schedule.

STRATA
A Professional Services Corporation
Integrity from the Ground Up

July 5, 2016
File: SP16512A

Ms. Jo-Lynn Brown
Project Coordinator
City of Spokane Parks and Recreation
City Hall Fifth Floor
808 W. Spokane Falls Blvd.
Spokane, Washington

RE: **PROPOSAL**
Construction Material Testing and
Special Inspection Services
Riverfront Park Redevelopment Project
Spokane, Washington

Dear Ms. Brown:

Strata, A Professional Services Corporation (STRATA) is pleased to provide the following proposal for construction material testing and special inspection services for the Riverfront Park Redevelopment Project located in Downtown Spokane, Washington. STRATA is confident that our firm can provide the required construction material testing and inspection services in a cost-effective, timely, and professional manner.

This proposal contains information regarding our project understanding, anticipated scope of services, details of our unit fees, and an estimate of the material testing investment. We have prepared our proposal based on the following:

- The Permit Set of project plans provided by City of Spokane dated April 1, 2016;
- Our email conversations with Ms. Jo-Lynn Brown, Project Coordinator, with the City of Spokane Parks and Recreation, in June of 2016;
- Our phone conversation with Ms. Brown on July 1, 2016;
- The *Statement of Special Inspections* as detailed on the structural drawings dated March 18, 2016;
- The special inspection and testing requirements established in the 2012 International Building Code (IBC 2012); and
- Other referenced standards such as the *American Society for Testing and Materials* (ASTM), *American Welding Society* (AWS), *American Concrete Institute* (ACI), and the *American Society of Civil Engineers* (ASCE).

## PROPOSED CONSTRUCTION

We understand the project includes construction of a new pedestrian bridge (Howard Street South Bridge), a new recreational ice skating rink with a refrigerator system and looped trail, a new control building to service the ice rink and skyride, a new carousel, a new pavilion building, utilities, and landscaping features.

The improvements to the Howard Street South Bridge, as we understand, will utilize the existing bridge footings and abutments. However, a total of six 3-foot diameter drilled shafts will service the new intermediate piers 2 and 3. A total of 42 hollow-core bridge girders will span the bridge piers. An 18-inch diameter water main will be installed and connected to the bottom of the bridge girders. There will be pedestrian-accessible seating and outlook areas installed on each side of the bridge.

The construction of the control building for the ice rink and skyride will utilize isolated shallow spread footings with an earth support slab. The building will be comprised of cold-formed steel framing, concrete masonry walls, and a steel deck roof.

We understand that the U.S. PAVILIOIN event center and LOOFF CARROUSEL buildings are still in the design-phase. We understand that construction of the LOOFF CARROUSEL will begin in February 2017 with a year-long estimate for construction. We further understand that the $23 million centerpiece U.S. PAVILION event center, a central plaza conservation area, playground improvements, gardens and surface parking improvements will begin in 2018. Projects on the Havermale Island will begin in 2018, and most of the project work on Canada Island and north sections of the park will begin in 2019.

This proposal is therefore based on our project understanding, anticipated project duration, and anticipated scope of services as detailed below. The quantities listed in our fee schedule **are estimates**; variance in these quantities and associated testing fees may take place due to design changes, additional services, construction schedules, unanticipated conditions, weather, contractor scheduling, or other factors beyond our control. We elaborate on our anticipated scope of services and approach in the following sections.

## PROJECT APPROACH and SCOPE OF SERVICES

### Project Team

Staff assignment will be dependent on the nature of the testing required. Our intention is to be an invaluable resource to the City of Spokane and members of the design and construction team throughout the duration of the project. Our primary anticipated role will include the following:

- Materials verification, testing, and compliance;
- Documentation of construction activities, testing, and inspection activities and results via Daily Field Reports;
- Special Inspection of work complying with referenced standards and specifications;

- Communicating directly with the City of Spokane and other designated project personnel; and
- Promoting and participating in a SAFE approach to construction activities.

Based on STRATA's review of project plans "*Permit Set*" and specifications dated April 1, 2016 and conversations with Ms. Jo-Lynn Brown, we anticipate our scope of services on this project will comprise the following:

**Soil/Aggregate Observation and Testing**

STRATA will provide a qualified field professional to observe and test compaction during foundation, slab, fill and backfilling operations, and asphalt subgrade preparation (structural fill placement, aggregate placement below slabs, utility trench backfill, and other miscellaneous project fill and backfill). We will sample on-site and any imported materials used for fill and backfill and transport these samples to our laboratory for required testing. We assume the geotechnical engineer-of-record will provide observations and recommendations specific to foundation subgrade preparation, drilled piers, and asphalt and slab subgrades and have not included this service in our scope for this project. We have not included engineering observations within our scope of service for soil and aggregate testing. STRATA is not the Engineer of Record (EOR). Accordingly, we assume the EOR will provide engineering continuity services for this project.

**Reinforcing Steel Placement and Embedded Items Special Inspection**

STRATA will provide a qualified inspector to verify the placement of reinforcing steel and embedded items prior to the placement of concrete. Our reinforcing steel and embedded items inspection will include verification of type, grade, size, cleanliness, lap splice, clearance, coverage, and general placement of reinforcing steel/embedded items for conformance with project plans and specifications. Discrepancies will be reported to the contractor for correction prior to the placement of concrete. If discrepancies are uncorrected, we will notify you and other designated persons of non-compliant conditions.

**Concrete Observation, Sampling and Testing**

We will provide a qualified inspector to observe the placement of structural concrete and conduct sampling and field testing of concrete, including casting of compressive strength test cylinders for verification purposes. Our field services will include testing for slump, temperature (concrete and ambient), air content, verification of mix design based on review of concrete batch tickets, and casting of test specimens. Sampling and field-testing of concrete will be conducted by personnel certified by, at minimum, the *American Concrete Institute* (ACI) as a *Concrete Field Testing Technician-Grade I*. We estimate that 1 set of 5 compression test cylinders for laboratory cure (1 tested at 7 days, 3 at 28 days, and 1 held pending 28 day test results) will be required for each 100 cubic yards or once for each day's placement for all concrete placed. Additionally, prior to concrete placement activities (requiring special inspection), our inspector will discuss with the contractor the concrete curing methods, techniques and temperature requirements.

Upon completion of the 24-hour initial curing period, STRATA will pick up and deliver concrete compression specimens to our certified laboratory for curing and testing. STRATA will document compression test results, and a test report will be sent as required by project

specifications. We have based this proposal on the assumption that compliance testing of other materials (i.e. aggregates, cement, etc.) will not be required. Therefore, we have not included these activities in the anticipated scope. If it becomes necessary, we can provide these services for an additional fee.

At this time, we assume that the concrete for the bridge girders will be pre-cast concrete panels. We will perform one visit to the fabrication plant to verify the quality control procedures of the fabricator as approved by the *Post-Tension Institute*.

**Structural Concrete Masonry Observation and Testing Services**

We will provide an ICC-certified special inspector to provide continuous special inspection during the placement of grout and during the sampling of mortar, grout, and/or masonry units for the new skyride and ice rink control building. Also, we will provide periodic special inspection of the placement of masonry units, mortar, reinforcing steel, and items embedded in masonry. We will sample and test construction materials including: pre-construction masonry prisms, grout, and mortar for compression testing for each 5,000 square-foot (SF) of masonry construction, or as required by the project specifications. We will deliver these samples to our laboratory for compressive strength testing. We have based our estimated fee on the assumption that the masonry will be constructed using low-lift grouting techniques (limiting grout placement lift to 4 to 5 feet per placement).

**Structural Steel Field Bolting/Welding Special Inspections**

We have based our proposal on the understanding that fabrication of structural steel will be completed in the facility of an approved/certified fabricator, eliminating the need for special inspection at the fabrication shop. We will provide a special inspector certified by either the American Welding Society (AWS-CWI) or International Code Council (ICC) to observe welding operations during structural steel erection and connection at the project location. This will be accomplished on a periodic and/or continuous basis as dictated by the approved drawings and applicable codes. Our services include the observation of welder certifications, material identification, joint fit-up, and general compliance of structural steel construction to the project requirements and applicable codes.

**Hot Mix Asphalt (HMA) Observation and Testing**

STRATA will provide a qualified field professional to observe, sample, and test compaction during HMA paving of the new bridge approaches. HMA samples will be obtained at the supplier's batch plant and transported to our laboratory for the required testing. Our laboratory testing will comprise maximum theoretical specific gravity, volumetric properties, and asphalt content and mix gradation. We assume coring of the asphaltic concrete will not be required, however, we can provide these services, if needed.

**Project Management and Reporting**

Mr. Jacob Westerman will be the Project Manager and the point of contact in the coordination of our special inspection, field observation, and laboratory testing services. Mr. Westerman will also work with your site representative to coordinate our services. In general, requests for scheduling of our inspection and testing, meeting attendance, and communication processes will be handled through our local Spokane, Washington office (phone 509-891-1904).

**We request that scheduling calls be made 24 hours in advance** in order to allow the appropriate response time for the project.

Field personnel will issue an electronic copy of their preliminary daily field reports and field test results on site at the completion of each day's testing. STRATA's project manager will review the daily reports generated by field staff during construction, and these finalized reports will be summarized and transmitted electronically to the selected project representatives at the end of each week.

Throughout construction, items found in non-compliance with the project requirements will be brought to the immediate attention of the contractor's superintendent, designated design professionals, and your project representative. As re-inspection items can have a serious impact on our budget, our project manager will review the daily progress reports to monitor items requiring re-inspection and the hours involved in these re-inspections. These items will be documented and this information will be forwarded to you periodically for appropriate action and tracking of potential change orders and/or back charges. STRATA's project manager will also conduct field visits in support of STRATA personnel and inspection procedures. Upon completion of the project, we will provide a final summary report to document the materials testing services.

## FEE ESTIMATE

STRATA proposes to perform the above Scope of Services on a time and expense basis. Based on our current project understanding, as conveyed throughout this proposal, we estimate our fees for material testing and inspections of the Howard Street South Bridge and the Ice Rink and Skyride structures at **$84,120.00**. An additional fee estimate will be provided once design is complete. Overtime will be invoiced at 1½ times the hourly rate for all time before 7:00 AM, after 5:00 PM, over 8 hours per day, weekends or holidays. Mileage and time will be invoiced portal to portal from STRATA's office.

## LIMITATIONS

The above scope of services is for construction material testing, inspection and laboratory services. Our services do not include a geotechnical evaluation of any kind. We are not assuming the geotechnical engineer-of-record for the project. Our construction material testing, inspection, and laboratory services are limited to verifications of the plans and specifications. STRATA does not represent or warrant that we have reviewed the construction documents (plans, specifications, etc.) for accuracy, appropriateness and whether the documents meet the standard of care at the time of our services in the eastern Washington area.

## SUMMARY

We sincerely appreciate the opportunity to work with the City of Spokane Parks and Recreation and look forward to successful project construction and completion. We will perform testing services under the attached *General Conditions for Construction Observation, Special Inspection & Material Testing Services*. These *General Conditions* cannot be excluded from the overall contract terms by issuance of a purchase order, reconstructing the scope in a separate client contract form, or otherwise constructing a new contract vehicle. Our acceptance of client's contract form does not constitute a waiver of these *General Conditions* unless specifically stated

in writing. You have the option to negotiate our *General Conditions* prior to accepting this proposal. Please read all sections carefully.

STRATA personnel take pride in their ability to provide timely and professional service to our clients. Again, we appreciate the opportunity to provide you this proposal to perform construction material inspection and testing services on this project. If this proposal and contract terms are acceptable to you, please sign and return one copy of the attached *General Conditions* as authorization to proceed when contacted. If you have any questions, or if we can be of further assistance, please do not hesitate to call.

Sincerely,
STRATA

Jacob E. Westerman, MSI
Construction Services Manager

Paxton K. Anderson, P.E.
Area Manager

JEW/PKA/cm

Attachments: *General Conditions for Construction Observation, Special Inspection & Material Testing Services*

| Proposal No./Date: | SP16512A / July 5, 2016 | Client Name: | City of Spokane, Parks and Recreation |
|---|---|---|---|
| Project Name: | Riverfront Park Redevelopment Project | Project Location: | Spokane, Washington |

## STRATA, A Professional Services Corporation
## GENERAL CONDITIONS FOR CONSTRUCTION OBSERVATION, SPECIAL INSPECTION & MATERIAL TESTING SERVICES

**SCOPE OF SERVICES.** STRATA, A Professional Services Corporation (hereinafter "STRATA") shall perform the scope of services detailed in the proposal attached to these General Conditions. This Agreement may only be amended in writing and with the consent of both parties. STRATA can provide different levels of comprehensiveness in our services, for a corresponding increase or decrease in our fees. By signing the Agreement, Client acknowledges that it has reviewed STRATA's project scope of services and agrees that it is reasonable and acceptable.

If STRATA has provided an estimated total fee or proposal, we will notify Client before we exceed the total fee and shall not continue to provide services beyond such limit unless Client authorizes an increase.

**STANDARD OF CARE.** STRATA will perform our services using the customary care and skill employed by competent professionals performing similar services under similar circumstances in the project area, subject to any limitations or exclusions contained in our proposal or the scope of our services under this Agreement. STRATA is not responsible for the work or services performed by others, nor are we responsible for the safety of any persons or property, other than the safety of our own employees. STRATA does not warrant or guarantee our services.

**CLIENT RESPONSIBILITIES.** Client agrees to provide STRATA with all plans, specifications, addenda, change orders, approved shop orders, approved shop drawings, and other information for the proper performance of STRATA's scope of services. STRATA shall be entitled to reasonably rely on all information provided to it by Client. Client authorizes STRATA free access to the Project site, and to all shops or yards where materials are prepared and stored. Client agrees to designate in writing a person or firm to act as Client's representative with respect to STRATA's services to be performed under this agreement. Such person or firm is to have complete authority to transmit instructions, receive information and data, interpret and define Client policies and decisions with respect to the Project and to order, at Client's expense, such technical services as may be requested by STRATA. Client agrees to designate in writing those persons or firms who are authorized to receive copies of our observation and test reports. Client will advise us sufficiently in advance of any operations (usually 48 hours or as defined by the proposal and/or project documents) to allow STRATA personnel assignments and completing the required services. Client agrees to secure or have secured by Project contractor or consultant, by the construction contract, other means representative samples of those materials or procedures proposed for use that require testing, together with any relevant material data. Additionally, Client warrants that such casual labor and all facilities or equipment needed by STRATA to obtain and handle samples or gain site access for inspection and testing at the Project will be made available. It is necessary for the Client to provide and maintain for STRATA's use, adequate space at the Project for safe storage and proper test specimen curing.

**INVOICES AND PAYMENT.** STRATA will invoice for services in accordance with the terms of our proposal or on a monthly basis. All invoices are due on receipt and will be assessed a late payment charge of 1.5% per month if not paid within 30 days of the invoice date. If STRATA is not paid when due, we may suspend or terminate all services and Client agrees to return to STRATA all copies of any reports, plans, specifications or other documents prepared by STRATA under this Agreement and will not rely on these documents or use them in any fashion, including not bringing suit against STRATA. STRATA retains all rights to claim against performance bonds, lien project property, and other measures to receive payment for services rendered.

**CHANGED CONDITIONS.** If, after executing this agreement, STRATA discovers conditions or circumstances not anticipated by us, we will promptly notify Client of the changed condition. Client agrees to negotiate an appropriate modification to this Agreement, including an appropriate modification to STRATA's fees. If STRATA and Client cannot agree on a revised scope of services or fee, either party may terminate this Agreement as set forth in *Termination and Suspension*.

**HAZARDOUS MATERIALS.** STRATA is not responsible for any loss, injury, or damage to any person or personal property caused by Hazardous Materials. Further, our services are limited to construction observation and material testing and do not include any investigation, identification, evaluation, testing, or treatment of any Hazardous Materials. Client agrees to defend, indemnify, and hold STRATA harmless from any claims, liability, loss, or damage that arises from, or is alleged to arise from, Hazardous Materials. "Hazardous Materials" includes, but is not limited to any toxic, noxious, poisonous, radioactive, or irritating material, chemical, or gas, and includes biological materials such as bacteria, viruses, fungi, spores and mold, and the emissions from biological materials.

**CERTIFICATIONS.** STRATA will not execute any certification. STRATA's services are only an expression of our professional opinion based on the service STRATA performed for Client and are not a guarantee or warranty of any fact, condition, or result.

**SAMPLES.** If STRATA provides in-house laboratory testing, we will preserve unused or remnant samples until the requested laboratory testing has been completed and the results published to our client, at which time all non-contaminated, unused samples or sample remnants will be discarded. Any unused or remnant samples of material which fail to comply with project specifications will be retained for a period of five (5) working days beyond the date of publication of our laboratory test report to Client, unless specific instructions otherwise are received from Client. Additional fees may be incurred for reprocessing and/or storing unused samples or sample remnants. Samples contaminated with hazardous materials shall be promptly removed and lawfully disposed of by Client.

**PARTY RELATIONSHIP.** STRATA will perform our services as an independent consultant with our employees under our sole direction and control. STRATA will have the full power, discretion, and authority to select the means, manner, and method of completing our services for individual project tasks without detail, control, or direction. STRATA may subcontract for the services of others without obtaining Client's consent where STRATA deems it necessary or desirable to complete our scope of services.

**NON-SOLICITATION.** The parties agree that during the term of this contract and for a period of two (2) years after termination of this contract, for any reason, the parties shall not directly or indirectly, induce, engage, encourage, or attempt to induce, encourage, or otherwise counsel, advise, ask, or offer any person who is, at the time, employed in any capacity by the other party, to leave the employ of the other party, or to accept employment with another employer, including but not limited to the other party, or to become an independent contractor, or to offer employment to or hire such person.

The parties agree that it would be impractical and very difficult to determine the amount of actual damages caused by a breach of this non-solicitation provision. Therefore, the parties agree that in the event it is established that there has been a violation of the non-solicitation provision, the violating party shall pay the other party, as liquidated damages the sum of twenty-two thousand dollars ($22,000) for each breach.

The parties agree that these liquidated damages represent reasonable compensation to the other party for losses that would be incurred by it due to any such breach, and nothing in this provision is intended to limit STRATA's right to seek and/or obtain injunctive or other relief as may be appropriate.

**SITE DISTURBANCE.** In the normal course of our services, STRATA may cause surface and subsurface disturbance. Property restoration is not included in STRATA's scope of services unless specifically included in the proposal.

**INDEMNITY.** STRATA and Client agree to indemnify and hold each other harmless from and against claims, suits, liability, damages, and expenses, (including reimbursement of reasonable attorneys' fees) to the proportionate extent caused by its negligent performance of services under this Agreement.

**TERRORIST ACTIVITY.** Client understands and agrees that STRATA is not responsible for damages to persons, property, or economic interests arising from Terrorist Activity. Client will indemnify, defend, and hold STRATA harmless against all third-party claims for such damages that arise from, or are alleged to arise from Terrorist Activity. The term "Terrorist Activity" means any deliberate, unlawful act that any authorized governmental official declares to be or to involve terrorism, terrorist activity, or acts of terrorism; or that involves the use or threat of force, violence, or harm to: (a) promote or advance a political, ideological, or religious cause or objective; (b) influence, disrupt, or interfere with a government; (c) intimidate, coerce, or frighten the general public; or (d) disrupt or interfere with any segment of a national economy.

**RISK ALLOCATION.** Client agrees to limit STRATA's total aggregate liability to Client and all third parties arising from any and all injuries, damages, claims, losses, expenses or claim expenses, including attorney's fees, arising out of or relating to this agreement based on any cause or any theory of liability, including, but not limited to negligence, errors or omissions, strict liability, breach of contract, breach of warranty, and claims for indemnification or contribution, such that STRATA's total aggregate liability, including but not limited to attorney's fees and costs, shall not exceed the percentage share of STRATA's fee as it relates to the Client's total fee or in the case of an owner, the total project value, up to a maximum of fifty thousand dollars ($50,000).

If Client wishes to increase this limitation amount, we can negotiate a higher limit in exchange for an appropriate fee increase to reflect the appropriate risk allocation. It is intended by Client and STRATA that this provision shall apply to the indemnity obligations set forth above. Client and STRATA agree that neither will be liable to the other for any consequential, liquidated, punitive, or incidental damages, except as specifically provided for in this agreement. Notwithstanding any period of limitations that might otherwise apply, the parties agree that no actions, claim, or proceeding of any kind, whether in tort, contract, or equity, arising out of STRATA's services, may be brought against STRATA more than 2 years after STRATA's last service date in connection with this project.

**SURVIVABILITY.** The indemnity obligations, limitations of liability, and assigned requirements established under this Agreement shall survive the expiration or termination of this Agreement. If STRATA provides additional services under this Agreement or any amendment to it, this Agreement's indemnity obligations and limitation of liability will apply to all such services.

**NO JOINT AND SEVERAL LIABILITY.** STRATA shall not be jointly or severally liable for any damage of any kind or nature, including loss or damage of any kind to land or any structures or other improvements planned, designed, constructed, or remodeled on the property which is the subject of this Agreement, or for any personal injury, including death, arising out of or resulting from any structural plan, design or construction, or the remodeling of any structure placed on the property which is the subject of this Agreement, unless and to the extent said loss or damage or injury is the direct and proximate result of STRATA's sole negligence.

**TERMINATION AND SUSPENSION.** Client or STRATA may terminate or suspend this Agreement within seven (7) days written notice delivered personally or by certified mail to the other party. In the event of termination, other than caused by a material breach of this Agreement by STRATA, Client shall pay for all of STRATA's services performed through the date of termination, and for any necessary services and expenses incurred in connection with the project's termination. STRATA shall not be liable to Client for any failure or delay in performance due to circumstances beyond STRATA's control.

**DISPUTE RESOLUTION.** No action may be instituted or prosecuted in any court related to any dispute arising from or in connection with this Agreement unless the party wishing to institute such action first demands in writing, and participates in good faith, in a non-binding facilitated mediation of the dispute. Each party will pay its own costs and fees of mediation, and the fees and costs of the mediator shall be shared equally between the parties. The mediation shall be conducted by a mutually agreed to mediator selected by the parties from the roster of civil mediators approved by the jurisdiction's Supreme Court, or another mutually agreed upon mediator. In the event the parties cannot reach agreement on an approved mediator, either party may petition the local jurisdiction's District Court for the appointment of a qualified and approved mediator. A respondent's refusal to mediate relieves the other party from the mediation requirement.

**CONTROLLING LAW.** The laws of the State in which the project occurs will govern the interpretation and enforcement of this Agreement, and the venue for any legal dispute shall be in the county seat where the project is located.

**INTEGRATION AND SEVERABILITY.** The attached proposal and these General Conditions reflect the entire Agreement between STRATA and Client. If any portion of the Agreement is found to be void, such portion shall be stricken and the Agreement shall be reformed to as closely approximate the stricken portions as the law allows.

**DOCUMENT OWNERSHIP.** Provided STRATA is paid in full, we grant Client a non-exclusive license to use the Drawings, Specifications, Reports or other documents prepared by STRATA for this Project ("the Work"). STRATA owns the Drawings, Specifications, Reports and other documents, including document copies. Any reuse or modification of the Work by Client or anyone obtaining it through Client will be at Client's sole risk and without liability to STRATA. Client will defend, indemnify, and hold STRATA harmless from all third party claims, demands, actions, and expenses (including reasonable attorney's fees, expert fees, and other costs of defense) arising from or in any way related to the reuse or modification of the Work by Client or anyone obtaining it through Client.

**ELECTRONIC DELIVERABLES.** In recognition of STRATA's sustainability efforts in the services we provide, STRATA may elect to provide our deliverables in electronic formats, which may change from time to time, but at a minimum may include: electronic mail, portable document format, flash drives, PowerPoint presentations, or other reusable hardware devices. When notified in our proposed scope of services, Client agrees to accept deliverables in an electronic format, to not manipulate said format, and to reproduce deliverables in their entirety when necessary. Client further agrees to hold STRATA harmless from any misuse, loss, or other activity that compromises the deliverable intent.

**GENERAL CONDITIONS ACCEPTANCE AND AUTHORIZATION TO PROCEED:** If Client gives verbal authorization to proceed and does not object in writing to the General Conditions outlined above within 7 days, Client agrees to be bound by these terms.

Signature:_____ Printed Name:_____ Title:_____ Date:_____

# Riverfront Park Committee
# Agenda Action Item Fact Sheet

Meeting date: July 11, 2016

Presented by: Berry Ellison

**Action Item (Language shall match the language on the agenda.):**

Park-wide Geotechnical Engineering Contract with GeoEngineers

**Action Item Description:**

This contract retains GeoEngineers to perform Geotechnical Engineering and Environmental Testing and Analysis services on a park-wide basis. The majority of the scope of work is on-site monitoring, testing, analyzing, and cataloging soil & water, core drilling and engineering recommendations.

**RFP Bond Budget Impact (Describe as budgeted or non-budgeted.):**

A park-wide comprehensive fee for this service is estimated to be approximately $705,600. Each project will be negotiated separately as designs are developed. The 2016 fee is expected to be $117,900 for the Recreation Rink and Howard St South Channel Bridge.

**Non RFP Bond Budget Impact (i.e., Park Fund or Cumulative Reserve):**

none

**Executive Team Recommendation:**

Staff recommends approval.

**Urgency for Approval (describe impact if not approved):**

Retaining this service is required prior to beginning construction (September 2016)

**Options for Not Approving:**

This is a required service however delay to August may not negatively impact the project schedule.

GeoEngineers
523 East Second Avenue
Spokane, Washington 99202
509.363.3125

July 6, 2016

City of Spokane
Parks and Recreation Department
808 West Spokane Falls Boulevard, 5th Floor
Spokane, Washington 99201

Attention: Berry Ellison
Riverfront Park Program Manager

Subject: Proposal
Geotechnical Engineering and Environmental Assessment Services
Riverfront Park
Spokane, Washington
File No. 0110-148-06

## INTRODUCTION AND PROJECT UNDERSTANDING

GeoEngineers, Inc. (GeoEngineers) is pleased to have the opportunity to provide you with geotechnical engineering and environmental services during the redevelopment of Riverfront Park. We understand the projects will occur over an approximate 4-year period extending through the end of 2020, and many of the projects are still in the conceptual stage. Our proposal includes our general scope of services for anticipated subsurface exploration activities, but we understand you want to maintain a degree of flexibility to adapt to changing conditions. As you are aware, the past use and history of the site can present challenges, particularly with respect to environmental conditions. Our goal is to be proactive, to identify potential issues before they arise, and provide you with cost-effective solutions.

## GENERAL SCOPE OF SERVICES FOR PLANNED PROJECTS

Our general scope of services will include geotechnical and environmental evaluation and assessment prior to final design and construction, geotechnical observation during construction, environmental observation during construction which includes soil sample collection and subcontracted laboratory analysis, design coordination and review, water discharge compliance monitoring, and general project management including annual reporting. The list of anticipated projects, expected timeframe and general scope of services are listed below.

### Howard Street Bridge South Replacement and Theme Stream Crossing (2016-2017)

- Design coordination and review (2016)
- Construction-phase environmental services (2016)
- Water discharge compliance monitoring (2016)

**Year Round Recreational Rink and Skyride Facility (2016-2017)**

- Design coordination and review (2016)
- Construction-phase environmental and geotechnical services (2016-2017)

**Looff Carrousel, Rotary Fountain and Red Wagon Playground (2017)**

- Design coordination and review (2017)
- Construction-phase environmental and geotechnical services (2017)

**Havermale Island, U.S. Pavilion Event Center and Howard Street Promenade (2017-2020)**

- Geotechnical evaluation and environmental assessment (2017)
- Design coordination and review (2017-2020)
- Construction-phase environmental and geotechnical services (2018-2020)

**Howard Street Bridge North, Howard Street Bridge Mid-Channel and Canada Island (2018-2020)**

- Environmental assessment (2018)
- Design coordination and review (2018-2020)
- Construction-phase environmental services (2019-2020)

**North Bank Landscape, Parking, Access, and Regional Playground (2017-2018)**

- Geotechnical evaluation and environmental assessment (2017)
- Design coordination and review (2017-2018)
- Construction-phase environmental and geotechnical services (2017-2018)

**Pedestrian Bridge Repair (Five Total) (2017-2020)**

- Environmental assessment (2018)
- Design coordination and review (2017-2020)

## SCOPE OF SERVICES

The level of detail for each of these projects is different and cannot be fully identified until the design phases for some of the future projects are initiated. Furthermore, the subsurface conditions with respect to the presence/absence and concentrations of contaminants of concern is generally unknown, which could affect the detail of the scope of services. We provide you below with a basic scope of services and range of fee estimates for each of the six primary scope categories: (1) geotechnical evaluation and environmental assessment; (2) design coordination and review; (3) construction-phase environmental and geotechnical services; (4) water discharge compliance; (5) annual reporting; and (6) project management.

**Geotechnical Evaluation and Environmental Assessments**

We will provide combined geotechnical engineering evaluations and environmental assessments for the following projects: (1) Havermale Island, U.S. Pavilion Event Center and Howard Street Promenade; (2) North Bank Landscape, Parking, Access and Regional Playground.

We have already completed geotechnical engineering evaluations and environmental assessments for The Year Round Recreational Rink and Skyride Facility, and the Looff Carousel.

We understand CH2M has completed geotechnical engineering evaluations for the Howard Street Bridge South Replacement and Theme Stream Crossing project. Therefore, geotechnical/environmental evaluations and assessments will not be included as part of our services for this project.

We also understand that CH2M will complete geotechnical evaluations for the Howard Street Bridge North, Howard Street Bridge Mid-Channel and Canada Island project, as well as the Pedestrian Bridge Repair project. Therefore, our services for those two projects will be limited to environmental assessments (including conducting subsurface explorations for environmental sampling).

Our general scope of services for geotechnical evaluation and environmental assessment will include:

- Notifying the One-Call utility locating service before execution of our subsurface exploration program to confirm the absence or presence of underground utilities at or near our proposed exploration locations. We also will coordinate with Parks personnel and subcontract a private utility locator to check for possible underground utilities. We assume Parks personnel will mark locations of city-owned underground utilities.
- Developing a site specific health and safety plan (HASP) for on-site exploration activities.
- Exploring subsurface soil, rock and groundwater conditions near proposed structures and facilities, and in cut or fill areas. Subsurface exploration methods will vary depending on a number of factors, including, but not limited to: planned structure type, estimated foundation loads, site grading plans and available existing information about subsurface conditions. We anticipate exploration methods will consist of borings (either hollow-stem auger, air-rotary or sonic methods) or test pits. The type, number and depth of explorations will depend, in part, on the factors listed above.
- Field screening soil samples obtained from the explorations for potential petroleum-related contaminants. Field screening will consist of headspace vapor measurements using a photoionization detector, water sheen testing and visual observation. A portion of each soil sample obtained will be placed in laboratory supplied sample containers for potential chemical analysis.
- Containing, labelling and storing investigation-derived waste (IDW), consisting of excess soil cuttings and decontamination water, at an owner approved location on site. IDW will then be returned to the investigation area once construction activities begin. The IDW will be handled as soil from the project and either reused in accordance with the soil management plan or disposed of off-site with other soil from the project area.
- Submitting select soil samples from each exploration to a qualified analytical laboratory for environmental testing. We anticipate analyses could include: petroleum hydrocarbon screening using Northwest Method NWTPH-HCID; polycyclic aromatic hydrocarbon analysis using Environmental Protection Agency (EPA) Method 8270 SIM; and Resource Conservation and Recovery Act (RCRA) metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and

silver) using EPA 6000/7000 Series methods. Samples will be submitted on a standard turn-around time (approximately 2 weeks). Follow-up analyses could include volatile organic compounds (VOCs) using EPA Method 8260, and toxicity characteristic leaching procedure (TCLP) for metals using EPA 6000 series methods. Other analyses might be warranted depending on conditions encountered during drilling, results of initial laboratory analyses and information provided in the Phase I Environmental Site Assessment (ESA). Samples not initially submitted for chemical analysis will be held by the laboratory for potential follow-up analysis.

- Conducting geotechnical laboratory testing to assess select physical and engineering characteristics of soil encountered in the explorations relative to proposed improvements. The laboratory program may include but not necessarily be limited to: gradation analyses, moisture content and dry density determinations, and Atterberg limits tests. Laboratory testing will be completed in general accordance with applicable ASTM International (ASTM) test methods. Geotechnical laboratory testing of fill material will not be conducted if results of field screening and/or analytical testing described below indicate samples contain contaminants of potential concern (COPC) greater than applicable regulatory cleanup levels. If results of analytical testing indicate soil samples contain COPC at concentrations greater than applicable cleanup levels, those samples will be removed from our geotechnical laboratory and placed with the other IDW, as discussed in the environmental section of this proposal.
- Developing recommendations for site preparation, earthwork and fill placement including: criteria for clearing, stripping and grubbing; an evaluation of the characteristics of the soil and rock that underlies the site and excavation feasibility; an evaluation of the suitability of on-site soil for use as structural fill; gradation criteria for imported fill, if required; guidance for preparation of subgrade soil, which will support slab-on-grade concrete floors, pavements and exterior hardscape; and criteria for structural fill placement and compaction in building, pavement areas and utility trenches.
- Developing recommendations for design and construction of conventional shallow spread foundations, including: allowable soil bearing pressures; minimum width and depth criteria; coefficient of friction and equivalent fluid density for the passive state of stress to estimate resistance to lateral loads; estimates of foundation settlement; and recommendations for treatment of unsuitable soil that might be present at proposed foundation grade. We also will provide recommendations for modulus of vertical subgrade reaction which may be used to design structural slabs and grade beams.
- Developing recommendations for design and construction of on-grade floor slabs including: criteria for base course gradation, thickness and compaction; and the need for and criteria that may be used in the design of a moisture vapor barrier.
- Providing recommendations for design of retaining or below-grade foundation walls, including lateral earth pressures and wall backfill criteria, as applicable.
- Providing seismic design criteria based on the 2012 and 2015 (as applicable) International Building Code (IBC). We will provide a recommended seismic site class for use in seismic design.
- Evaluating the feasibility of managing stormwater via disposal in on-site swales, drywells or other shallow infiltration systems, as appropriate, and recommendations for use by the civil engineer during design of such facilities.

- Providing a final combined environmental and geotechnical written report containing our findings, conclusions and recommendations.

***Assumptions***

- Neither a geotechnical evaluation nor an environmental assessment is needed for the Howard Street Bridge South Replacement and Theme Stream Crossing.
- CH2M will conduct geotechnical evaluations for the Howard Street Bridge North, Howard Street Bridge Mid-Channel and Canada Island project. Therefore geotechnical evaluations for this project are not included as part of our services.
- CH2M will conduct geotechnical evaluations for the Pedestrian Bridge Repair project. Therefore, geotechnical evaluations for this project are not included as part of our services.
- We have included estimated fees to conduct environmental assessments for the Howard Street Bridges and Pedestrian Bridge projects listed above. For budget estimating purpose, we have included estimated fees to conduct subsurface explorations in order to collect soil samples for environmental testing. Environmental sampling can be coordinated with CH2M, if desired, to save on subsurface exploration costs.
- For budget estimating purposes, we assume the subsurface exploration program for each project will include 10 borings, each advanced to a depth of 20 feet below site grade. We will develop project-specific subsurface exploration programs for each project (including the type, number and depth of explorations) based on designs available to us at the time we complete field work.
- For budget estimating purposes, we assume $2,000 for geotechnical laboratory testing for each project that includes a geotechnical evaluation. The number and types of geotechnical laboratory testing for each project will depend on soil type(s) encountered during exploration.
- For budget estimating purposes, we assume $15,000 for environmental analytical testing for each project that includes environmental assessment services. The number and types of analyses performed will depend on conditions encountered during exploration, review of the project Phase I Environmental Site Assessment and turn-around times.
- Project sites will be suitable for shallow spread foundations. Our scope and estimated fees do not include recommendations for alternative deep foundations.
- The required archeological monitoring plans have been developed by others and were accepted by the appropriate agency. We assume that coordination and discovery of cultural resources will not impede geotechnical and environmental exploration programs.
- Rock coring will not be needed at this time, however it is dependent upon the proposed structure design and location.

**Design Coordination and Review**

We will review project specifications and drawings at greater than 50 percent submittal for compliance with environmental regulations and the project soil management plan (SMP). The drawings and specifications will be reviewed for correct reference and clarity on implementing the requirements in the SMP including, but not limited to:

- Installation of geotextile indicator lay where appropriate;

- Reference to geotextile specifications;
- Identification and allocation of site soil in accordance with the soil categories listed in the SMP.

***Assumptions***

- For budget estimating purposes, we assume 12 hours for a geotechnical/environmental principal, 16 hours for a senior engineer and 16 hours for a project manager.

**Construction-Phase Environmental and Geotechnical Services**

Our construction-phase environmental and geotechnical engineering services will include:

- Visiting the site to observe soil handling methods, geotextile placement, foundation grade, floor slab and pavement subgrade conditions and preparation;
- Responding to geotechnical-related requests for information from the contractor;
- Assisting the design team with geotechnical-related issues during construction;
- Sampling soil designated for off-site disposal in accordance with the soil management plan and submitting to a qualified environmental analytical laboratory for testing of select COPC;
- Sampling soil at the end of excavations or before structures are built over the soil to characterize the soil remaining in place in accordance with the SMP, and submitting the samples to a qualified environmental analytical laboratory for testing of select COPC;
- Collecting soil disposal information from the contractor to document fate of soil removed from the site;
- Developing and maintaining a GIS database to identify sample locations and analytical results.

***Assumptions***

- For budget estimating purposes, we assume 20 site visits per project, each site visit lasting four hours, including documentation, sampling, sample delivery to an analytical laboratory and field reports.
- For budget estimating purposes, we assume 32 hours for a project manager and 16 hours for a principal engineer per project, to respond to requests for information, assist with geotechnical issues during construction for each project and coordinate environmental sample collection.
- For budget estimating purposes, we assume $10,000 for environmental analytical testing for each project, with the exception of the Howard Street Bridge South Replacement Project. The number and types of analyses performed will depend on conditions encountered during exploration, review of the project Phase I Environmental Site Assessment and turn-around times.
- For budget estimating purposes, we assume 20 soil samples will be collected for each project, and submitted for analyses on a standard 10 day turn-around-time.
- For budget estimating purposes, we assume 16 hours for an environmental data analyst, and 24 hours for a GIS analyst to review, tabulate, summarize and map laboratory analytical results for each project.

**Water Discharge Compliance Monitoring**

We understand that it is desired to have the contractor sample and report the water quality discharged from the site in accordance with the Industrial discharge Agreements (IDAs) and Construction Stormwater General Permit (CSWGP) and supplemental Administrative Order (AO). Because the conditions of the IDA and AO were unknown before the bid documents for the Howard Street South Bridge replacement were released, it is desired to have GeoEngineers assist with water discharge permit compliance during the Howard Street South Bridge Replacement project.

In accordance with the AO, we will collect effluent samples weekly during stormwater and dewatering discharge to the Spokane River. In addition, we will collect samples of each batch discharged to the Publicly Owned Treatment Works (POTW), in accordance with the IDA. Sample results will be reported to the appropriate regulatory agency and if the effluent doesn't meet the permit requirements, the contractor will be notified as soon as the results are received.

***Assumptions***

- For budget estimating purposes, we assume monitoring will only be required for the Howard Street Bridge Project.
- For budget estimating purposes, we assume weekly sampling for four months. Each sampling event is anticipated to take approximately four hours, including sample delivery to the analytical laboratory.
- We assume approximately six hours for a project manager and one hour for a senior principal to interpret the results of the weekly sampling and prepare a discharge monitoring report to the appropriate permitting authority.
- For budget estimate purposes we estimate $10,000 for analytical services.

**Annual Reporting**

We will develop an annual assessment report documenting environmental assessment activities. The annual report will document field sampling activities, sample location, analytical results, fate of soil removed from the site and information on the reuse of soil at the site. The annual report will also document any unexpected conditions encountered and actions taken to address them.

***Assumptions***

- For budget estimating purposes, we assume 12 hours for a principal, 40 hours for a project manager, eight hours for GIS and eight hours of administrative time.

**Project Management**

Project management includes communications, project invoicing, meetings and strategy development. Under the project management task, we will attend coordination meetings as requested and work with the city, utility owners and design firms during project design and implementation.

***Assumptions***

- For budget estimating purposes, we assume four hours per month for a principal and six hours per month for a project manager on an annual basis.

## POTENTIAL SCOPE OF SERVICES

The redevelopment projects likely will require other earth science related services, although it is premature to specifically list the requirements of each activity at this time. However, we will provide you with a list of other services GeoEngineers can offer you should they be warranted during the project:

- Groundwater monitoring well installation, development, and monitoring. Groundwater monitoring wells might be needed if groundwater is documented to be contaminated and requires monitoring, if dewatering activities are warranted, and if stormwater discharge infiltration monitoring is deemed necessary.
- Dewatering tests and analyses. If construction activities are likely to encounter shallow groundwater, excavation dewatering might be necessary. To facilitate efficient excavation and water management activities, dewatering tests (using wells) and analyses should be performed.
- Geophysical surveys. We can estimate area wide depth to rock using geophysical techniques if shallow in-place rock could impact design and construction. We can also conduct rock coring to investigate the competency of the bed rock and further refine depth to bedrock estimates.
- Water treatment alternatives. If effluent from the site requires pre-treatment before discharge, we can work with vendors and the contractor to develop cost effective solutions to treat the water before it is discharged from the site.
- Soil management. GeoEngineers has prepared a Soil Management Plan to address how to handle and document contaminated soil. One option for managing contaminated soil is for the City to construct and monitor a contaminated soil repository at the site (or other City-owned property). If necessary, we can assist with permitting, design and monitoring services.
- Water sampling and analysis. During some of the construction activities, especially those conducted above or near the river, water sampling might be necessary to document compliance with permits.
- Regulatory interaction and restrictive covenant preparation. The redevelopment projects will encounter contaminated soil but the intent is only to remove contaminated soil in conjunction with construction excavation activities. Therefore, contaminated soil will be left in place in some areas. The locations of remnant contaminated soil must be recorded and reported to Ecology; additionally, a restrictive covenant with institutional controls must be placed on the property deed and filed with the county.

Please note that fees for these potential supplemental services are not included in the budget estimate provided below.

## SCHEDULE, TERMS AND BUDGET

We are able to begin work on this project immediately. Table 1 projects the costs, per project, for the years 2016 through 2020.

Our services will be completed in accordance with the City of Spokane Parks and Recreation Consultant Agreement. The fee for our services will be determined on a time-and-expense basis using the rates contained in our Schedule of Charges, which is attached as part of this proposal. We reserve the right to

update our schedule of charges on an annual basis and fees and services will be adjusted accordingly over the project duration.

There are no intended third party beneficiaries arising from the services described in this proposal and no party other than the party executing this proposal shall have the right to legally rely on the product of our services without prior written permission of GeoEngineers. This proposal is valid for a period of 60 days commencing from the first date listed above and subject to renegotiation by GeoEngineers, Inc., after the expiration date.

We appreciate the opportunity to submit this proposal and look forward to working with you on this project. If you have any questions regarding our proposed scope of services or estimated fee, please call.

Sincerely,
GeoEngineers, Inc.

Jedidiah R. Sugalski
Environmental Engineer

Bruce D. Williams
Principal

JRS:JRG:mce

Attachments:
Table 1. Budget Estimate
Schedule of Charges—Spokane 2016

# Table 1

## Budget Estimate

### Parkwide Geotechnical and Environmental Services

### Spokane, Washington

| Project | 2016 | 2017 | 2018 | 2019 | 2020 | Project Total |
|---|---|---|---|---|---|---|
| **Howard Street Bridge South Replacement and Theme Stream Crossing (2016-2017)** | | | | | | |
| Geotechnical Evaluation and Environmental Assessment(1) | – | – | – | – | – | |
| Design Coordination and Review | $ 7,900 | – | – | – | – | |
| Construction-Phase Environmental Services | $ 14,400 | $ 14,400 | – | – | – | |
| Water Discharge Compliance Services | $ 36,300 | – | – | – | – | |
| Subtotal | $ 58,600 | $ 14,400 | – | – | – | $ 73,000 |
| **Year Round Recreational Rink and Skyride Facility (2016-2017)** | | | | | | |
| Geotechnical Evaluation and Environmental Assessment[2] | – | – | – | – | – | |
| Design Coordination and Review | $ 7,900 | – | – | – | – | |
| Construction-Phase Environmental and Geotechnical Services | $ 16,700 | $ 16,700 | – | – | – | |
| Water Discharge Compliance Services | – | – | – | – | – | |
| Subtotal | $ 24,600 | $ 16,700 | – | – | – | $ 41,300 |
| **Looff Carrousel, Rotary Fountain, and Red Wagon Playground (2017)** | | | | | | |
| Geotechnical Evaluation and Environmental Assessment[2] | – | – | – | – | – | |
| Design Coordination and Review | – | $ 7,900 | – | – | – | |
| Construction-Phase Environmental and Geotechnical Services | – | $ 33,400 | – | – | – | |
| Water Discharge Compliance Services | – | – | – | – | – | |
| Subtotal | $ - | $ 41,300 | – | – | – | $ 41,300 |
| **Havermale Island, U.S. Pavilion Event Center, and Howard Street Promenade (2017-2020)** | | | | | | |
| Geotechnical Evaluation and Environmental Assessment | – | $ 67,700 | – | – | – | |
| Design Coordination and Review | – | $ 2,000 | $ 2,000 | $ 2,000 | $ 2,000 | |
| Construction-Phase Environmental and Geotechnical Services | – | – | $ 11,100 | $ 11,100 | $ 11,100 | |
| Water Discharge Compliance Services | – | – | – | – | – | |
| Subtotal | $ - | $ 69,700 | $ 13,100 | $ 13,100 | $ 13,100 | $ 109,000 |
| **Howard Street Bridge North, Howard Street Bridge Mid-Channel, and Canada Island (2018-2020)** | | | | | | |
| Environmental Assessment[1] | – | – | $ 57,300 | – | – | |
| Design Coordination and Review | – | – | $ 2,600 | $ 2,600 | $ 2,600 | |
| Construction-Phase Environmental Services | – | – | – | $ 10,100 | $ 10,100 | |
| Water Discharge Compliance Services | – | – | – | – | – | |
| Subtotal | – | – | $ 59,900 | $ 12,700 | $ 12,700 | $ 85,300 |
| **North Bank Landscape, Parking, Access, and Regional Playground (2017-2018)** | | | | | | |
| Geotechnical Evaluation and Environmental Assessment | – | $ 67,700 | – | – | – | |
| Design Coordination and Review | – | $ 7,900 | $ 7,900 | – | – | |
| Construction-Phase Environmental and Geotechnical Services | – | – | $ 33,400 | – | – | |
| Water Discharge Compliance Services | – | – | – | – | – | |
| Subtotal | – | $ 75,600 | $ 41,300 | – | – | $ 116,900 |
| **Pedestrian Bridge Repair (2017-2020)** | | | | | | |
| Environmental Assessment[1] | – | – | $ 57,300 | – | – | |
| Design Coordination and Review | – | $ 2,000 | $ 2,000 | $ 2,000 | $ 2,000 | |
| Construction-Phase Environmental and Geotechnical Services | – | – | – | – | – | |
| Water Discharge Compliance Services | – | – | – | – | – | |
| Subtotal | – | $ 2,000 | $ 59,300 | $ 2,000 | $ 2,000 | $ 65,300 |
| **Annual Reporting** | $ 10,400 | $ 10,400 | $ 10,400 | $ 10,400 | $ 10,400 | $ 52,000 |
| **Project Management** | $ 24,300 | $ 24,300 | $ 24,300 | $ 24,300 | $ 24,300 | $ 121,500 |
| **Annual Total** | $ 117,900 | $ 254,400 | $ 208,300 | $ 62,500 | $ 62,500 | $ 705,600 |

Notes:

[1]Geotechnical exploration work will be conducted by CH2M Hill

[2]Geotechnical evaluations and environmental assessment already complete

# Schedule of Charges – 2016

## COMPENSATION

Our compensation will be determined on the basis of time and expenses in accordance with the following schedule unless a lump sum amount is so indicated in the proposal or services agreement. Current rates are:

| | | |
|---|---|---|
| **Professional Staff** | | |
| Staff 1 Engineer/Scientist/Analyst | $ | 95/hour |
| Staff 2 Engineer/Scientist/Analyst | $ | 105/hour |
| Staff 3 Engineer/Scientist/Analyst | $ | 115/hour |
| Engineer/Scientist/Analyst 1 | $ | 124/hour |
| Engineer/Scientist/Analyst 2 | $ | 128/hour |
| Senior Engineer/Scientist/Analyst 1 | $ | 144/hour |
| Senior Engineer/Scientist/Analyst 2 | $ | 155/hour |
| Associate | $ | 175/hour |
| Principal | $ | 200/hour |
| **Technical Support Staff** | | |
| Administrator 1 | $ | 65/hour |
| Administrator 2 | $ | 70/hour |
| Administrator 3 | $ | 75/hour |
| CAD Technician | $ | 80/hour |
| CAD Designer | $ | 88/hour |
| CAD Design Coordinator | $ | 97/hour |
| Technician | $ | 49/hour |
| Senior Technician | $ | 62/hour |
| Lead Technician | $ | 70/hour |
| Environmental Technician | $ | 80/hour |

Contracted professional and technical services will be charged at the applicable hourly rates listed above. Staff time spent in depositions, trial preparation and court or hearing testimony will be billed at one and one-half times the above rates. Time spent in either local or inter-city travel, when travel is in the interest of this contract, will be charged in accordance with the foregoing schedule. Rates for data storage and web-based access will be provided on a project-specific basis.

**Equipment**

| | | |
|---|---|---|
| Air Quality Equipment, per day | $ | 155.00 |
| Environmental Exploration Equipment, per day | $ | 180.00 |
| Geotechnical Exploration Equipment, per day | $ | 130.00 |
| Groundwater Monitoring Equipment, per day | $ | 248.00 |
| Operations and Maintenance Equipment, per day | $ | 255.00 |
| Special Inspection and Testing Equipment, per day | $ | 18.00 |
| Water Quality Equipment, per day | $ | 155.00 |
| | $ | |

**Specialized Equipment**

| | | |
|---|---|---|
| Crack Gauges, per gauge | $ | 30.00 |
| Data Logger with Transducers, per day | $ | 105.00 |
| Disposable Bailers, each | $ | 16.00 |
| Field Data Acquisition Equipment, per day | $ | 50.00 |
| Flowmeter, per day | $ | 105.00 |
| GPS Unit, per day | $ | 105.00 |
| Level C PPE, per day | $ | 26.00 |
| Nuclear Density Gauge, per day | $ | 40.00 |
| Padlocks, each | $ | 15.00 |
| pH Meter, per day | $ | 15.00 |
| Scuba Diving Equipment, per day, per diver | $ | 260.00 |
| Soil Samples (in Rings), per sample | $ | 5.00 |
| Soil Samples (in Sleeves), per sample | $ | 8.00 |
| Underwater Camera – Still, per day | $ | 50.00 |
| Underwater Camera – Video, per day | $ | 155.00 |
| Vehicle usage, per mile, or $60/day, whichever is greater | $ | 0.77 |
| Vehicle - 4-Wheel Drive Truck, per day (1 day min.) | $ | 85.00 |
| Water Filters, each | $ | 32.00 |
| Miscellaneous Field Equipment, at current rates, list available upon request, per day | $ | 20.00 |

*Specialized equipment will be quoted on a per-job basis.*

## OTHER SERVICES, SUPPLIES AND SPECIAL TAXES

Charges for services, equipment, supplies and facilities not furnished in accordance with the above schedule, and any unusual items of expense not customarily incurred in our normal operations, are charged at cost plus 15 percent. This includes shipping charges, subsistence, transportation, printing and reproduction, miscellaneous supplies and rentals, surveying services, drilling equipment, construction equipment, watercraft, aircraft, and special insurance which may be required. Taxes required by local jurisdictions for projects in specific geographic areas will be charged to projects at direct cost.

### In-House Disposable Field Supplies

Routinely used field supplies stocked in-house by GeoEngineers, at current rates, list available upon request.

### Associated Project Costs (APC)

Computer hardware and software, telephone and fax communications, printing and photocopying and routine postage via USPS will be charged at a flat rate of 6 percent of labor charges.

# Laboratory Schedule of Charges

| Type of Test | | Unit Price* |
|---|---|---|
| Moisture Content / Oven (ASTM D2216) | $ | 18.00 |
| Sample Preparation | | |
| Extrusion - Extrude and log (visual classification) Shelby tube sample, per hour | $ | 48.00 |
| Trimming - Trim a soil sample to 2.41-inch dia. for consolidation testing, per hour | $ | 48.00 |
| Remolding - Remold a soil sample to desired moisture and density, per hour | $ | 48.00 |
| Moisture/Density | | |
| Rings | $ | 25.00 |
| Shelby Tubes, waxed chunk | $ | 40.00 |
| Tubes (liners), chunk | $ | 40.00 |
| Organic Content (ASTM D2974)** | $ | 62.00 |
| Particle Size Analysis | | |
| Sieve (ASTM C136) max size < 3/4-inch (includes -200 Wash, Dry Sieve) | $ | 88.00 |
| Sieve (ASTM C136) max size > 3/4-inch (includes -200 Wash, Dry Sieve) | $ | 90.00 |
| Percent Passing No. 200 (ASTM C117-87/D1140) | $ | 48.00 |
| Combined Sieve and Hydrometer (ASTM D422) | $ | 150.00 |
| Hydrometer only (ASTM D422) | $ | 98.00 |
| Atterberg Limits (ASTM D4318) | $ | 110.00 |
| Nonplastic | $ | 68.00 |
| Specific Gravity, Fine Material (ASTM D854) | $ | 68.00 |
| Specific Gravity, Coarse Material (ASTM C-127) | $ | 55.00 |
| Percent of Fracture (ASTM D5821) | $ | 38.00 |
| Sand Equivalent (AASHTO T 176, ASTM D-2419) | $ | 63.00 |
| Compaction (ASTM D1557/D698, Methods A, B and C, AASHTO T-180) | | |
| 4 point | $ | 150.00 |
| Direct Shear (ASTM D3080) | | |
| Per point | $ | 110.00 |
| Vane Shear (ASTM D4648) | | |
| 3 points** | $ | 57.00 |
| Consolidation (ASTM D2435) | | |
| With 2 timed load increments | $ | 360.00 |
| Permeability | | |
| Constant or falling head in rigid wall permeameter (ASTM D 2434, D 5856)** | $ | 190.00 |
| In triaxial cell with back pressure saturation (ASTM D 5084)** | $ | 520.00 |
| One-Dimensional Swell (ASTM D4546) | | |
| Method A** | $ | 360.00 |
| Method B** | $ | 360.00 |
| Method C** | $ | 620.00 |
| Triaxial Compression | | |
| Unconfined Comp. - UC (ASTM D2166) | $ | 93.00 |
| Unconsolidated Undrained - UU (ASTM D2850)** | $ | 180.00 |
| Triaxial Unconsolidated Undrained (back pressure saturation)** | $ | 360.00 |
| Consolidated Undrained (ASTM D4767) with pore press. meas. - CU/S/P** | $ | 520.00 |
| Consolidated Drained - CD** | $ | 520.00 |
| Consolidated Undrained or Consolidated Drained (3 points)** | $ | 1,250.00 |
| CBR with 4 point Proctor (ASTM D1883) | $ | 470.00 |
| Rock Point Load Index Test (ASTM D5731) | $ | 26.00 |
| Unconfined compressive strength of rock cores (ASTM D7012) | $ | 36.00 |
| Concrete Cylinders (ASTM C39) compressive strength (includes C31 molding/curing) | $ | 20.00 |
| Mortar Cylinders (ASTM C780) | $ | 20.00 |
| Masonry Unit Prisms (ASTM C1314) | $ | 105.00 |
| Grout Prisms (ASTM C1019) | $ | 26.00 |
| High Strength Grout Cubes (ASTM C109) | $ | 20.00 |
| Soil Cement/CLSM Unconfined Compression (ASTM D 4832) | $ | 36.00 |
| Concrete Beam Flexural Strength by Third-Point Loading (ASTM C 78) | $ | 80.00 |
| Compressive Strength of Drilled Concrete Core (ASTM C 42) | $ | 38.00 |
| SFRM Density (ASTM E605) | $ | 34.00 |

Other tests charged at negotiated rates

*Increase unit prices by 20 percent – 50 percent for contaminated samples.
** Conducted in our Redmond Laboratory, additional shipping charges may apply.

**All rates are subject to change upon notification.**

City of Spokane - Parks & Recreation
Riverfront Park
Monthly Financial Report
June, 2016

| | Annual Budget | 2014 YTD Actual | 2015 YTD Actual | 2016 YTD Actual | YTD Budget % Avg. of 2 Yr. Actuals | Fav. ↑ Unfav. ↓ | YTD Budget 2016 Variance Act. to Budg. | 2016 Monthly Actual | 2016 Annual Budget Spent to Date |
|---|---|---|---|---|---|---|---|---|---|
| **Revenue** | 3,225,600 | 1,518,015 | 1,393,566 | 1,305,640 | 1,473,692 | ↓ | (168,051) | 361,275 | 40% |
| **Expenditures:** | | | | | | | | | |
| Salaries and Wages | 1,631,037 | 735,111 | 683,706 | 658,816 | 691,355 | ↑ | (32,539) | 129,662 | 40% |
| Personnel Benefits | 385,240 | 154,561 | 146,581 | 158,615 | 175,275 | ↑ | (16,659) | 25,602 | 41% |
| Supplies | 385,221 | 169,197 | 94,724 | 105,962 | 131,900 | ↑ | (25,939) | 31,440 | 28% |
| Services and Charges | 804,654 | 322,544 | 315,371 | 322,265 | 320,568 | ↓ | 1,697 | 63,527 | 40% |
| Intergovernment Services | 35,425 | 10,827 | 10,338 | 9,553 | 11,951 | ↑ | (2,398) | 3,604 | 27% |
| Total Expenditures | 3,241,577 | 1,392,240 | 1,250,719 | 1,255,211 | 1,331,049 | ↑ | (75,838) | 253,834 | 39% |
| **Net Revenue (Expenditure)** | **(15,977)** | **125,774** | **142,846** | **50,429** | **142,643** | ↓ | **(92,213)** | **107,441** | |
| Net Transfers In (Out) | (100,000) | - | - | - | - | | - | - | 0% |
| Capital Outlay | 128,501 | 98,135 | 9,240 | 33,655 | 45,619 | | (11,964) | 23,148 | 26% |
| **Total Funding** | **(244,478)** | **27,640** | **133,607** | **16,774** | **97,023** | ↓ | **(80,249)** | **84,292** | |

**Month/Year Ratio:** **50.00%**