City of Seattle
Business Opportunities Forum
Architectural and Engineering Consultants

February 25, 2015
Bertha Knight Landes Room, Seattle City Hall
Welcome!

Participating Capital Departments
Department of Finance & Administration
Seattle Department of Transportation
Seattle Center
Seattle Public Utilities
Seattle Department of Transportation

Construction Management Services

Fairview Avenue North Bridge
Yesler Way Over 4th Avenue South
The Fairview Avenue Bridge, 65 years old, needs to be entirely replaced.

Hemmed in by commercial buildings to the southeast and Lake Union to the northwest, the project will likely include:

- Work from barges
- Fish passage window restrictions
- Removal and replacement of trolley lines
- Removal and replacement of floating walkway
- FAA notifications (for float planes

Project website: [http://www.seattle.gov/transportation/fairviewbridge.htm](http://www.seattle.gov/transportation/fairviewbridge.htm)
The Yesler Way Bridge was built in 1910 and is one of the oldest permanent steel roadway bridges in the City of Seattle.

A single span will replace the 3 existing spans, and the west bridge abutments will be completely replaced, while preserving the historic character-defining elements such as the fascia girders and the pedestrian railings.

The project will require both intermittent full closures (nights & weekends) and longer term partial closures of 4th Ave S, as well as continuous closures on Yesler Way and Terrace St.

Project website: http://www.seattle.gov/transportation/yeslerbridge.htm
Seattle Public Utilities

South Park Drainage Improvements

South Park Flood Control Pump Station
(already under contract)

South Park Water Quality Facility

South Park Drainage Conveyance Improvements
SDOT Project Contacts
Construction Management Services

- Yesler Way Over 4th Avenue South
  Amanda Tse
  amanda.tse@seattle.gov

- Fairview Avenue North Bridge
  Mark Sliger
  mark.sliger@seattle.gov
South Park
**7th Ave S Storm Drain Basin Characteristics**

- 238-acre basin
- 3 distinct areas
  - Upper basin industrial/undeveloped
  - Middle largely residential
  - Lower – largely industrial
- Significant, frequent flooding in lower basin
- Tidal influence and sea level rise impacts in lower basin
- No stormwater treatment, discharges directly to Duwamish Waterway
Existing Condition

HGL during storm event at High Tide

Existing grade

MH’s in the existing system

Flat HGL during storms at high tides
South Park Flood Control Pump Station

- Project is in design
- Overcomes tidal influence at the outfall & trunk
- Pump station will have 2 bays available for future installation of Water Quality Facility pumps.
South Park Water Quality Facility

- SPU property next to flood control pump station
- Layout is for planning purposes only and does not indicate a preference for any one technology
- Performance criteria set by Integrated Plan commitments
South Park Drainage Conveyance

- No conveyance system in many streets
- Planning document:
  - Layout
  - Sizing
  - Sequencing
  - Climate Change
  - Partnering options
  - Possible separation in adjacent areas
- Phased contract may include design
Existing Condition
Seismic Mitigation Program
Water System Seismic Vulnerability Study
SPU Seismic Mitigation Program

History

- Seismic Reliability Study of the Seattle Water Departments Water Supply System (Cygna Energy Services, 1990)
- Earthquake Loss Modeling of the Seattle Water System (Kennedy Jenks Chilton/USGS, 1990)
- SPU Seismic Upgrade Program (e.g., OCC, Myrtle Elevated Tanks, Barton Standpipe, etc.)
Seismic Vulnerability Assessment
- Project Tasks

- Define earthquake hazards associated with two deterministic scenario events:
  - M9.0 Cascadia Subduction Earthquake
  - M6.5 to M7.0 Seattle Fault Earthquake

- Seismic vulnerability assessments for all water transmission and distribution system facilities.
  - Deterministic earthquake scenarios
  - ASCE/SEI 7-10 (Building Code) Establish post-earthquake water transmission and distribution system performance goals

- Estimate overall system response for deterministic earthquake scenarios (hydraulic modeling of post-earthquake water system performance to be done by SPU)
Seismic Vulnerability Assessment - Project Tasks (continued)

- Develop planning level mitigation measures, cost estimates and timeframe to meet service level goals
  - Mitigation measures to include physical upgrade and emergency preparedness and response planning
  - Service level goals to be established by SPU with some consultant review
  - Mitigations elements will be prioritized by risk/criticality and will consider SPU budget constraints.

- Define seismic design standards for water transmission and distribution pipelines
Summary List of Facilities

- 1700 plus miles of transmission and distribution pipeline
- Facilities
  - Approximately 25 pump stations
  - Approximately 10 elevated tanks and standpipes
  - Two treatment plants
  - Dams
  - Numerous administration and support facilities
  - Numerous gatehouses and chlorination facilities
  - Control works
  - Two well fields
Seismic Project
Milestone Targets

- RFQPA Advertisement – March 2015
- Consultant NTP – 2nd Qtr 2015
- Performance Goals – 1st Qtr 2016
- Preliminary findings – 1st Qtr 2016
- Final report – 2nd Qtr 2016

Direct Questions to Bill Heubach
Bill.Heubach@Seattle.Gov
Combined Sewer Overflow (CSO) Program

West Ship Canal CSO Reduction Project
WSC CSO Project

- Joint project with King County WTD.
- The West Ship Canal CSO project is being enacted to meet the Consent Decree’s (CD) for both the City of Seattle & King County (solution in place by 2025).

**Name Change**
Storage:

- A bored 15.24-MG offline storage tunnel with an effective 14 feet inside diameter and nominally 14,000 feet long;
- Six diversion structures for diverting influent CSO flow away from existing CSO outfalls to the Tunnel;
- Four drop structures to convey influent CSO flow into the storage tunnel; including odor control;
- An East Tunnel Portal with an approximate tunnel invert elevation of 90-feet (Seattle datum) housing odor control equipment; and,
- A West Tunnel Portal with an approximate tunnel invert elevation of 100-feet housing an effluent pump station with a peak capacity of 32 MGD to empty the storage tunnel in approximately 12 hours.
WSC CSO drop structures; PS/FM
Conveyance:

- Approximately 2,200 lineal feet (lf) of 36 to 72-inch diameter gravity sewer line to convey flows from SPU’s Ballard and Fremont/Wallingford CSO areas (NPDES 150/151, NPDES 152, NPDES 147, and NPDES 174 respectively).

- Approximately 900 lf of 48 to 60-inch diameter gravity sewer line to convey flows from KC WTD’s 3rd Ave. W. and 11th Ave. NW CSO to tunnel drop structures.

- Approximately 800 lf of the gravity sewer line will be under the Ship Canal to connect the 3rd Ave. W. diversion structure to the Tunnel.
WSC CSO conveyance
## WSC CSO Project: Contracting strategy

### Design Contracts

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### Construction Contracts

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WSC CSO Contracting strategy

CONCEPTUAL WEST SHIP CANAL TUNNEL
CONTRACTING UNIT LOCATIONS
WSC CSO Project: 
Next steps - 2015

- Draft Facility Plan by Q3 2015
- SEPA Strategy by Q3 2015
- Storage, PS and FM Designer (Ad Q2 2015; NTP Q3 2015)
- Initiate community outreach (in process)
WSC CSO Project:
Consultant – tentative schedule

- Conveyance Design Packages Advertisement Q1 2016 – Q3 2016
- Utility Relocate Design Packages Q1 2016 – Q4 2016
- Misc ROW Improvement Packages Q1 2017 – Q4 2018
- SPU to perform some percentage of design
WSC CSO Project:

Questions?
SPU Project Contacts

- South Park Water Quality Facility
- South Park Drainage Conveyence Improvements
  - Alan Lord
    - alan.lord@seattle.gov
  - Sheila Harrison
    - sheila.harrison@seattle.gov

- Water System Seismic Vulnerability Study
  - Bill Heubach
    - bill.heubach@seattle.gov
SPU Project Contacts

 West Ship Canal CSO Reduction
   Dan Enrico
   dan.enrico@seattle.gov

 Project Controls Services
   Hanif Khan
   hanif.khan@seattle.gov
City of Seattle

Consultant Roster
Available to all City Departments
Consultant Roster

- **Consultant Roster (under $285K)** selections are based on Consultant Roster Category registration available on the City of Seattle Online Business Directory.

- The Consultant Roster provides Contract Managers & Project Managers with a list of consultants that specialize in consultant categories.

- Specific rules apply for consultant selection using this contract method.

SDOT Frequently Used Consultant Roster Categories

**Design**
- Architectural Services (Urban)
- Bridge/Retaining Wall Design
- Civil Engineering
- Geotechnical Engineering
- Hydraulic Engineering
- Intelligent Transportation Systems
- Pavement and Material Engineering
- Roadway Design
- Structural Engineering

**Survey/Testing**
- Field Sampling and Material Testing/Analysis
- Land Survey
- Survey 3D Laser Scanning, Bathymetry

**Communications**
- Commercial Art and Graphic Design Services
- Communications
- Public Information, Promotion, and Public Involvement

**Management**
- Construction Management
- Project Management

**Environmental**
- Environmental Management
- Forestry Services
- Historic Resource Inventories/Assessments
- Landscape Services
- Hazardous Materials/Waste Operations and Management

**Miscellaneous**
- Bicycle and Pedestrian Services
- Customer Service Development
- Human Resources
- Information Technology
- Real Estate Consulting

Transportation Services

Please note that this is a snapshot and not an all-inclusive list of SDOT Roster Categories.
### SPU’s
### Frequently used Roster Categories

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Thanks for your interest in doing business with the City.