

MOTION NO. M2017-111
Light Rail Operations Analysis and On-call Services

| MEETING: | DATE: | TYPE OF ACTION: | STAFF CONTACT: |
|-------------------------------|--------------|------------------------|-------------------------------------------------------------------------------------------|
| Operations and Administration | 09/07/2017 | Final Action | Ric Ilgenfritz, Executive Director PEPP Brant Lyerla, Project Manager - Modeler |

PROPOSED ACTION

Authorizes the chief executive officer to execute a three year contract with two one-year options to extend with Steer Davies Gleave to provide light rail operations analysis services for a total authorized contract amount not to exceed \$1,700,000.

KEY FEATURES SUMMARY

- The contract is needed to conduct a system wide operational analysis of the planned ST3 light rail system.
- Under the contract, the consultant will provide the following:
 - An analysis of light rail operations, vehicle fleet size, and operations and maintenance facilities to support the expansion of light rail service.
 - A system wide operations plan document for the ST3 light rail system within six to eight months after the project begins.
 - On-call assistance to evaluate operational issues related to the light rail system expansion program.
- The scope of work also includes an optional task to investigate the use of automated or semi-automated vehicles.
- The initial term of this agreement will be three years. At Sound Transit’s sole discretion, the contract may be renewed for two options for additional one-year periods.
- The contract amount covers the entire contract term including the term extensions. It also includes the optional task (vehicle automation) and on-call services.

BACKGROUND

Sound Transit will retain the services of a consultant to conduct a system wide operational analysis of the planned Link light rail system. This analysis will include the development of a system wide operations plan, as well as requirements for the rail vehicle fleet size, operations and maintenance (O&M) facilities, and vehicle storage and deployment as the system incrementally expands. This analysis does not include the Tacoma Link system.

Using this analysis, the consultant will prepare an Operations Plan that includes the phased implementation of light rail extensions through the completion of the ST3 Plan. The analysis and Operations Plan will be used to help inform light rail project definitions and requirements as these projects move through project development and design phases. The analysis and Operations Plan are expected to be completed within six to eight months after beginning the project.

The consultant will recommend strategies for locating future light rail O&M facilities and other vehicle storage facilities to meet the fleet and operational needs of the phased expansion of the system.

There is an optional task to investigate how automated or semi-automated light rail vehicles could be operated on the system, including feasibility, benefits and disadvantages.

The consultant will also provide on-call assistance to evaluate specific operational issues related to the system expansion program, to support Sound Transit decision-making as needed. The on-call services will be conducted using individual task orders and will be available for the entire three-year term of the contract and the term extensions if exercised.

PROCUREMENT INFORMATION

A Request for Proposals (RFP) method was issued due to the nature of the procurement. Sound Transit received six proposals. An interagency team evaluated all six proposals, from those six two top ranked proposals were selected. Sound Transit requested revised proposals from the two top ranked firms to address some minor weaknesses and also for a best and final offer. The results of the evaluation of those revised proposals lead to the selection of vendor Steer Davies Gleave.

FISCAL INFORMATION

This action is within the authorized project allocation to date, and sufficient funds remain after approval of this action to fund the remaining work in the preliminary engineering phase.

The authorized project allocation to date for ST3 Planning is \$52,648,024. Within that amount, \$30,407,538 has been allocated for consulting services in the preliminary engineering phase. The proposed action would commit \$1,700,000 to Steer Davies Gleave to provide light rail operations analysis services leaving the remaining uncommitted budget of \$24,256,713 in the preliminary engineering phase.

ST3 Planning
(in thousands)

| | Authorized Project Allocation to Date | Board Approvals | This Action | Board Approved Plus Action | Uncommitted / (Shortfall) |
|-----------------------------|---------------------------------------|-----------------|----------------|----------------------------|---------------------------|
| Agency Administration | \$5,838 | \$4,459 | \$ | \$4,459 | \$1,379 |
| Preliminary Engineering | 46,510 | 20,553 | 1,700 | 22,253 | 24,257 |
| Final Design | | | | | |
| Third Parties | | | | | |
| Right of Way | 300 | 7 | | 7 | 293 |
| Construction | | | | | |
| Construction Services | | | | | |
| Vehicles | | | | | |
| Total Current Budget | \$52,648 | \$25,019 | \$1,700 | \$26,719 | \$25,929 |

Phase Detail - Preliminary Engineering

| | | | | | |
|------------------------------------------|-----------------|-----------------|----------------|-----------------|-----------------|
| Consulting Services | \$30,408 | \$11,347 | \$1,700 | \$13,047 | \$17,361 |
| Other Preliminary Engineering Phase Work | 16,102 | 9,206 | | 9,206 | 6,896 |
| Total Phase | \$46,510 | \$20,553 | \$1,700 | \$22,253 | \$24,257 |

Steer Davies Gleave

| Contract Detail | Board Approvals to Date | Current Approved Contract Status | Proposed Action | Proposed Total for Board Approval |
|------------------------------|-------------------------|----------------------------------|-----------------|-----------------------------------|
| Contract Amount | \$ | \$ | \$1,700 | \$1,700 |
| Contingency | | | | |
| Total Contract Amount | \$ | \$ | \$1,700 | \$1,700 |
| Percent Contingency | 0% | 0% | 0% | 0% |

Notes:
 Amounts are expressed in Year of Expenditure.
 Board Approvals = Committed To-Date + Contingency as of July 2017 includes pending Board actions.
 For detailed project information, see page 58 of 2017 Adopted Transit Improvement Plan (TIP).

SMALL BUSINESS/DBE PARTICIPATION AND APPRENTICESHIP UTILIZATION

Sound Transit promotes and encourages small business participation, which also includes Disadvantaged Business Enterprises (DBEs). Small Business and DBE goals are based upon an examination of subcontracting opportunities contained in the work of this contract and the number of Small Businesses/DBEs available to perform such subcontracting work.

Sound Transit determined that there were few Small Business and DBE subcontracting opportunities based upon the work described in this contract, so Small Business/DBE goals were not established.

PUBLIC INVOLVEMENT

Not applicable to this action.

TIME CONSTRAINTS

This project will provide data and information needed for light rail extension projects that are currently in development. Including the West Seattle and Ballard Link Extensions, and the Tacoma Dome Link Extension. A delay in this project could result in a similar delay for these light rail extension projects.

ENVIRONMENTAL REVIEW

KH 8/18/2017

LEGAL REVIEW

AJP 8/31/2017

MOTION NO. M2017-111

A motion of the Operations and Administration Committee of the Central Puget Sound Regional Transit Authority authorizing the chief executive officer to execute a three year contract with two one-year options to extend with Steer Davies Gleave to provide light rail operations analysis services for a total authorized contract amount not to exceed \$1,700,000.

BACKGROUND:

Sound Transit will retain the services of a consultant to conduct a system wide operational analysis of the planned Link light rail system. This analysis will include the development of a system wide operations plan, as well as requirements for the rail vehicle fleet size, operations and maintenance (O&M) facilities, and vehicle storage and deployment as the system incrementally expands. This analysis does not include the Tacoma Link system.

Using this analysis, the consultant will prepare an Operations Plan that includes the phased implementation of light rail extensions through the completion of the ST3 Plan. The analysis and Operations Plan will be used to help inform light rail project definitions and requirements as these projects move through project development and design phases. The analysis and Operations Plan are expected to be completed within six to eight months after beginning the project.

The consultant will recommend strategies for locating future light rail O&M facilities and other vehicle storage facilities to meet the fleet and operational needs of the phased expansion of the system.

There is an optional task to investigate how automated or semi-automated light rail vehicles could be operated on the system, including feasibility, benefits and disadvantages.

The consultant will also provide on-call assistance to evaluate specific operational issues related to the system expansion program, to support Sound Transit decision-making as needed. The on-call services will be conducted using individual task orders and will be available for the entire three-year term of the contract and the term extensions if exercised.

The initial term of this agreement will be three years. At Sound Transit's sole discretion, the contract may be renewed for two options for additional one-year periods. The contract amount covers the entire contract term including the term extensions. It also includes the optional task (vehicle automation) and on-call services.

MOTION:

It is hereby moved by the Operations and Administration Committee of the Central Puget Sound Regional Transit Authority that the chief executive officer is authorized to execute a three year contract with two one-year options to extend with Steer Davies Gleave to provide light rail operations analysis services for a total authorized contract amount not to exceed \$1,700,000.

APPROVED by the Operations and Administration Committee of the Central Puget Sound Regional Transit Authority at a regular meeting thereof held on September 7, 2017.



Paul Roberts
Operations and Administration Committee Chair

ATTEST:



Kathryn Flores
Board Administrator