

Request for Proposals – Sumner Enterprise Network Dark Fiber Services

Introduction:

In accordance with RCW 39.04.270, The City of Sumner intends to enter into a competitive negotiation process with vendors of Dark Fiber Optical Network Services.

Summary:

The City of Sumner desires to connect all of its city offices and facilities to Sumner City Hall, where the City’s data center is located. In addition, the City desires to provide a fiber optic route (The North-South Backbone) extending from the northern city limits at Lake Tapps Parkway and East Valley Highway to Shaw Road and East Main Street in Puyallup, and to provide fiber optic cable from traffic signal control points along the fiber route to City Hall.

The table below defines each fiber route and the number of fiber optic strands in each:

| Point A | Point Z | Strand Count |
|---|--------------------------------------|--------------|
| Future City Shops | City Hall | 2 |
| City Shops | City Hall | 2 |
| Sumner City Well | City Hall | 2 |
| Sumner Sports Complex | City Hall | 2 |
| Sumner Senior Center | City Hall | 2 |
| Sumner Ryan House | City Hall | 2 |
| Sumner Cemetery Shops and Office | City Hall | 2 |
| Sumner Wastewater Treatment Plant | City Hall | 2 |
| N-S Backbone N City Limits | N-S Backbone Shaw Road and E Main St | 2 |
| N-S Backbone N City Limits | City Hall | 2 |
| City Hall | N-S Backbone Shaw Road and E Main St | 2 |
| Traffic Signal Cabinet at Stewart Road and 8th ST SE | City Hall | 2 |
| Traffic Signal Cabinet at 140 th Ave E and 24 th St East | City Hall | 2 |
| Traffic Signal Cabinet at 142 nd Ave E at Costco Distribution Center | City Hall | 2 |
| Traffic Signal Cabinet at Main Street and Fryar Avenue | City Hall | 2 |
| Traffic Signal Cabinet at Cannery Way and Sumner Heights Drive E | City Hall | 2 |
| Traffic Signal Cabinet at Main Street and Wood Avenue | City Hall | 2 |
| Traffic Signal Cabinet at Valley Ave and Main Street | City Hall | 2 |

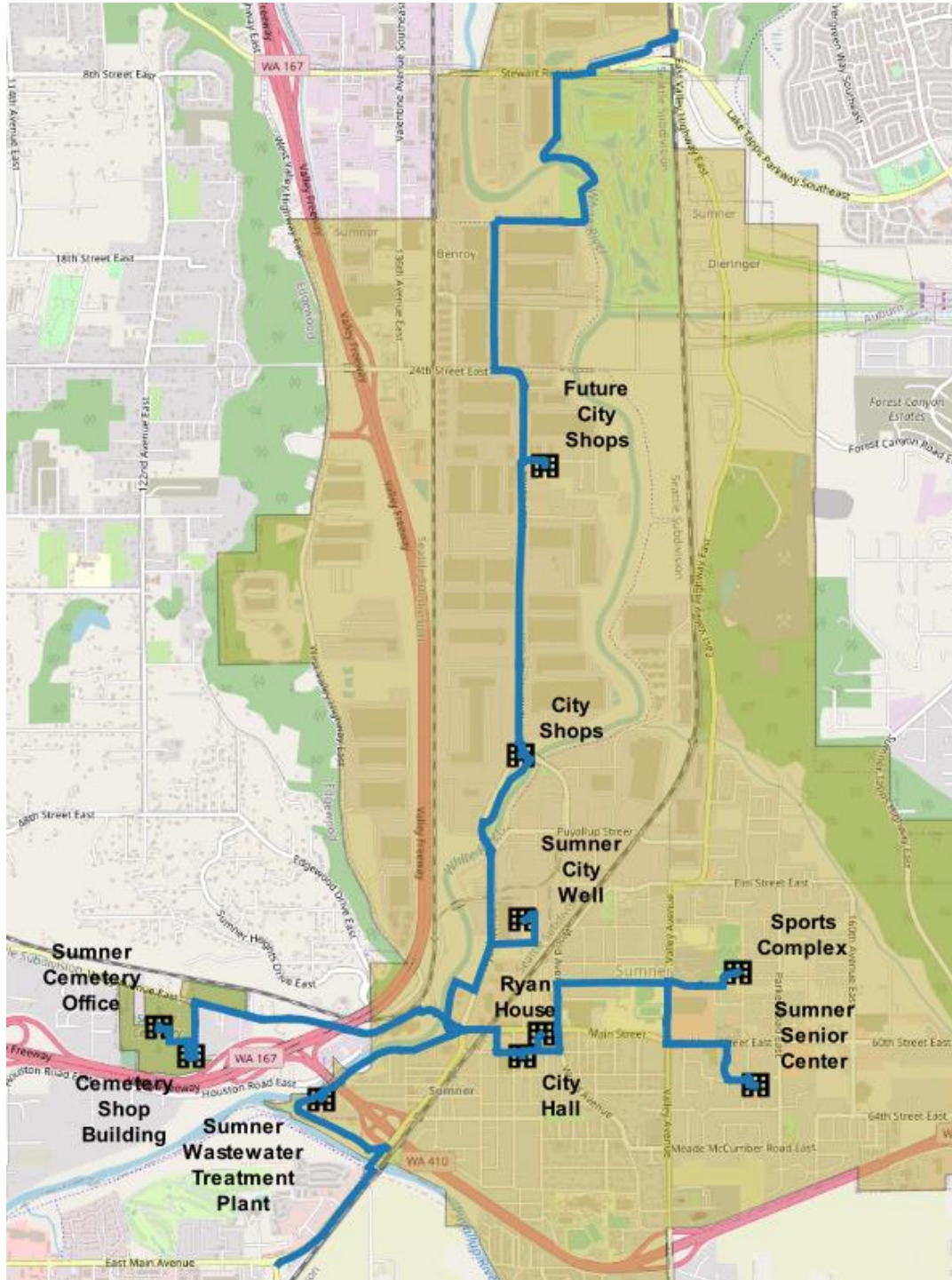
Street Addresses and Geo Coordinates for each network endpoint are listed below:

| Facility | Street Address and Notes | Geo Coordinates |
|-----------------------------------|---|--|
| City Hall | City Hall 1104 Maple St Sumner, WA 98390 Entrance conduit: Telephone poles on both north and south sides of building. 4" conduit | 47.202013593399556, -122.23999279874137 |
| Future City Shops | Future Sumner Operations Facility 14320 29TH ST E Existing structure will be demolished. New facility opens in 2026. Entrance conduit: none | 47.230982254744646, -122.23808247085759 |
| City Shops | Sumner City Shops – Existing 4711 142nd Avenue East Entrance conduit: none | 47.216893199245916, -122.24014816116998 |
| Sumner City Well | Sumner Central Well 1650 Steele Ave Entrance conduit: none | 47.2087290469769, -122.23970751503818 |
| Sumner Sports Complex | 5604 Graham Ave Sumner, WA 98390 | 47.20616418740329, -122.2244388133306 |
| Sumner Senior Center | 15506 62 nd Street Court East Sumner, WA 98390 | 47.20054447897071, -122.22318614889525 |
| Sumner Ryan House | 1228 Main Street Sumner, WA 98390 | 47.203115769935536, -122.23867877192357 |
| Sumner Cemetery Shops and Office | Sumner Cemetery 12324 Valley Avenue East Puyallup, WA 98372 Entrance conduit: none Sumner Cemetery Shops 6199 – 5973 124 th Avenue East Puyallup, WA 98372 Entrance conduit: none | 47.20416719914856, -122.26526560209591 47.20211840417046, -122.26376597615857 |
| Sumner Wastewater Treatment Plant | Sumner WWTP 13114 63rd Street East Entrance conduit: 2" conduit. NW end on telephone pole. | 47.19964577632339, -122.25513999076888 |

| Facility | Street Address and Notes | Geo Coordinates |
|---|---|--|
| N-S Backbone N City Limits | Vault Located at East Valley Highway and Lake Tapps Parkway SE | 47.252072, -122.228987 |
| N-S Backbone S City Limits | Vault Located at Shaw Road and East Main Street - Puyallup | 47.19187387415125, -122.25743585115727 |
| Traffic Signals | | |
| Traffic Signal Cabinet at Stewart Road and 8th ST SE | Traffic Signal Cabinet at Stewart Road and 8th ST SE | 47.249971563993014, -122.23840964027181 |
| Traffic Signal Cabinet at 140 th Ave E and 24 th St East | Traffic Signal Cabinet at 140 th Ave SE and 24 th St East | 47.23562564085955, -122.24219192061476 |
| Traffic Signal Cabinet at 142 nd Ave E at Costco Distribution Center | Traffic Signal Cabinet at 142 nd Ave E at Costco Distribution Center | 47.22087145831965, -122.2403168382671 |
| Traffic Signal Cabinet at Main Street and Fryar Avenue | Traffic Signal Cabinet at Main Street and Fryar Avenue | 47.203208242091414, -122.24396670907254 |
| Traffic Signal Cabinet at Cannery Way and Sumner Heights Drive E | Traffic Signal Cabinet at Cannery Way and Sumner Heights Drive E | 47.20393686755878, -122.24853774475967 |
| Traffic Signal Cabinet at Main Street and Wood Avenue | Traffic Signal Cabinet at Main Street and Wood Avenue | 47.2032184497221, -122.23719181289171 |
| Traffic Signal Cabinet at Valley Ave and Main Street | Traffic Signal Cabinet at Valley Ave and Main Street | 47.202560158105385, -122.22938034108847 |

Fiber Optic Route

The City has conducted studies to identify potential fiber optic routes for the desired network. A general route description map is provided here. Potential vendors who desire GIS files (KML) describing the route may request these directly from the RFP contacts listed in this RFP.



Proposing vendors are not required to confine their built routes to only the City's described routes.

Specifications

Vendor proposals must include demarcation/termination specifications for each location in their proposal. Each City facility served must terminate in a suitable wall or rack mounted fiber optic patch panel. Endpoints for the North-South Backbone must be available/accessible to the City in a vendor supplied fiber optic splice case.

Vendor installed dark fiber optics must meet or exceed the following testing specifications:

Using end to end bi-directional OTDR testing, each strand from end to end must meet or exceed the signal attenuation specifications shown below:

| Fiber Type | Wavelength (nm) | Maximum Attenuation Coefficient Per TIA-568 (dB/km) | Attenuation Coefficient (typical)(dB/km) |
|-----------------------------|-----------------|---|--|
| Single Mode – Outside Plant | 1310 | 0.5 | 0.4 |
| | 1550 | 0.5 | 0.3 |

Each fiber optic strand must be capable of carrying 100 GB per second data

Vendor Requirements

A Franchise Agreement with the City of Sumner authorizing use of the City's right of way will be required as part of contract finalization.

Any vendor who submits a proposal shall have been in business for at least 5 years.

Any vendor proposing shall be licensed to do business in Washington State.

The proposing vendor's primary business is providing fiber optic services.

Proposal Evaluation Criteria

Vendor proposals will be evaluated on the following criteria:

| Criteria | Rubric | Weight (X/100) |
|-----------------------------------|--|----------------|
| Pricing per strand mile | Compared against other proposals | 50 |
| Agreement Term | Longer Terms weigh higher | 20 |
| Annual Maintenance Costs | Lower Annual costs weigh higher – compared against other proposals | 15 |
| Service Levels Provided by Vendor | More responsive SLA's weigh higher | 15 |

A contract award may be made to the qualified proposing vendor whose proposal is most advantageous to the City with price and other factors considered. The City specifically reserves the right to reject any and all proposals for good cause and request new proposals. No vendor shall have a claim for reimbursement or other damage for the costs it incurs in reviewing and responding to this request for proposals.

Vendor Proposal Format:

Vendor's proposals shall include the following:

Introduction Letter identifying the vendor, and the vendor's authorized personnel that will be on the project team and doing business with the City of Sumner.

A general schedule for completion of the installation.

A clear costs per strand mile for each segment listed above in this RFP, or a comprehensive cost per segment served quotation.

Specifications for each demarcation patch panel at each location

Splice case specifications for each splice case located at the ends of the North-South Backbone

Proposed contract terms. (More than one contract proposal may be submitted)

Contract Terms must at a minimum, include:

- Length of contract (months, years)
- Annual Maintenance costs
- Service levels provided under the contract

Proposal Submission and Deadline:

Proposals may be submitted electronically to:

Proposals@sumnerwa.gov

Printed Proposals may be addressed and mailed and/or hand delivered to:

Sumner Fiber Optics Proposal

Sumner City Hall

1104 Maple St

Sumner, WA 98390

Submission Deadline:

Proposals must be submitted no later than **5:00 PM on Thursday, June 1, 2023**. Late submittals will not be considered.

City of Sumner RFP Contacts:

Technical Questions:

Patrick Skelly
Systems Administrator
patricks@sumnerwa.gov

Permitting/Planning Questions:

Mike Dahlem
Public Works Director
miked@sumnerwa.gov

Administrative/Legal Questions:

Jeff Steffens
Administrative Services Director
jeffs@sumnerwa.gov