

Snohomish County Airport
RFQ No. 24-19SR Airfield Engineering On Call Consulting Services
Jacobs Engineering Group, Inc.
Amendment No. 2

CONSULTANT: Jacobs Engineering Group Inc.

CONTACT PERSON: Kevin L. Cooley, PE

ADDRESS: 1100 112th Avenue NE
Bellevue, WA 98004-3100

FEDERAL TAX ID NUMBER/U.B.I. NUMBER: 95-4081636

TELEPHONE/FAX NUMBER: 425-233-3047 / 503-736-2058

COUNTY DEPT: Airport

DEPT. CONTACT PERSON: Kevin Latschaw, P.E.

TELEPHONE/FAX NUMBER: 425-388-5122 / 425-388-7005

COUNTY DEPT: Facilities

DEPT. CONTACT PERSON: Jeff Hencz

TELEPHONE/FAX NUMBER: 425-388-3154

PROJECT: General Engineering On-Call

ORIGINAL AMOUNT: \$1,000,000

AMENDMENT 2: \$350,000 allocated to Facilities Department;
\$650,000 remaining with Airport Department

AIRPORT FUND SOURCE: 410.5216804101 Professional Services

FACILITIES MANAGEMENT FUND SOURCE: FMCH-300-SAF-4101

CONTRACT DURATION: Original:
Executed date through December 31, 2022
Amendment No. 1:
Executed Date through December 31, 2024

[unless extended or renewed pursuant to Section 2 herein]

AMENDMENT NO. 2 TO AGREEMENT FOR PROFESSIONAL SERVICES

THIS AMENDMENT NO. 2 (this "Amendment 2") to the AGREEMENT FOR PROFESSIONAL SERVICES (the "Agreement") is made by and between SNOHOMISH COUNTY, a political subdivision of the State of Washington (the "County") and Jacobs Engineering Group Inc., a Delaware Corporation (the "Contractor").

WHEREAS, the County and the Contractor entered into a General (non-airfield) Design, Environmental and Construction Engineering On-Call Agreement per RFQ No. 24-19SR, Snohomish County Airport – On Call Consulting Services for the Snohomish County Airport ("Airport"); and

WHEREAS, on March 23, 2022, the Agreement term expiration date was amended to December 31, 2024 via Amendment No. 1; and

WHEREAS, Snohomish County Facilities Department (“Facilities”) is managing a non-airfield project at the Snohomish County Airport and will utilize the On-Call services of the Contractor within the overall approved Agreement amount, provided that the on-call services requested of Contractor by Facilities shall not exceed \$350,000.00, that Contractor shall invoice Facilities separately for such services, and that Facilities shall remit payment to Contractor for such services.

NOW, THEREFORE, In consideration of the promises and mutual covenants contained herein, the parties amend the Agreement as follows:

1. FUND SOURCE is amended as follows:

FUND SOURCE: 410.521680.4101 Professional Services, Airport, \$650,000.00

FMCH-300-SAF-4101, Facilities, \$350,000.00

2. Section 1. Purpose of Agreement; Scope of Services. The first paragraph of Section 1 is deleted and replaced with the following terms:

1. Purpose of Agreement; Scope of Services. The purpose of this Agreement is General (non-airfield) Design, Environmental and Construction Engineering Services. The scope of on call consulting services is as defined in Schedule A attached hereto and by this reference made a part hereof. Work will be issued through authorized Task Orders signed by the Contractor and either Snohomish County Airport (the Airport) or Snohomish County Facilities (Facilities), that define the scope of services, schedule and compensation. Task Orders signed by the Airport shall be applied against the Airport funding source and limits. Task Orders signed by Facilities shall be applied against the Facilities funding source and limits. This Agreement is the product of County RFQ No. 24-19SR, Snohomish County Airport – On Call Consulting Services.

3. Section 3. Compensation. Subsection a. Services, of Section 3 is deleted and replaced with the following terms:

a. Services. The County will pay the Contractor for services as set forth in Schedule B (Airport), and Schedule B-1 (Facilities), which is attached hereto and by this reference made a part of this Agreement. PROVIDED, HOWEVER, that in no event shall the total amount charged by Jacobs Engineering Group, Inc. paid by the County for services against the Airport fund source during the initial term (excluding extensions or renewals, if any) of this Agreement exceed \$650,000, and in no event shall the total amount charged by Jacobs Engineering Group, Inc. paid by the County for services against the Facilities fund source exceed \$350,000. Time of Jacobs Engineering Group, Inc. or subconsultant staff spent in travel related to the provision of services under this Agreement shall not be compensated. Time may be recorded and invoiced by Jacobs Engineering Group, Inc. in fractional hours with increments of no less than fifteen (15) minutes.

4. Section 3. Compensation. Subsection c. Invoices, of Section 3 is deleted and replaced with the following terms:

c. Invoices. The Contractor shall submit properly executed invoices to the County no more frequently than monthly. Each invoice shall include an itemization of the dates on which services were provided, including the number of hours and a brief description of the work performed on such date. Invoices for work on behalf of the Airport and Facilities shall be submitted separately to the respective Contact Persons identified in Section 7, and shall be tracked against the respective funding limits identified in Section 3. Subject to Section 8 of this Agreement, the County will pay such invoices within thirty (30) calendar days of receipt.

5. Section 7. County Contact Person. Section 7 is deleted and replaced with the following terms:

County Contact Person. The assigned contact person (or project manager) for the County for this

Agreement shall be:

For work on behalf of the Airport:

Name: Kevin Latschaw
Title: Airport Engineering Manager
Department: Airport
Telephone: (425) 388-5122
Email: kevin.latschaw@snoco.org

For work on behalf of Facilities:

Name: Jeff Hencz
Title: Special Projects Manager
Department: Facilities
Telephone: (425) 388-3154
Email: jeff.hencz@snoco.org

6. Schedule A-2, Scope of Services for Facilities, is added to the Agreement.
7. Schedule B-1, Compensation for Facilities, is added to the Agreement.
8. All other terms and conditions of the Agreement not inconsistent with this Amendment shall remain in full force and effect except as expressly modified by this Amendment No. 2.

SNOHOMISH COUNTY:

JACOBS ENGINEERING GROUP, INC:

Dated this ____ day of _____, 2023,

Dated this ____ day of _____, 2023,

By:
Title:

By:
Its:

Approved as to insurance
and indemnification provisions:

Approved as to form only:

Risk Management Date

Approved as to form only:

Deputy Prosecuting Attorney Date

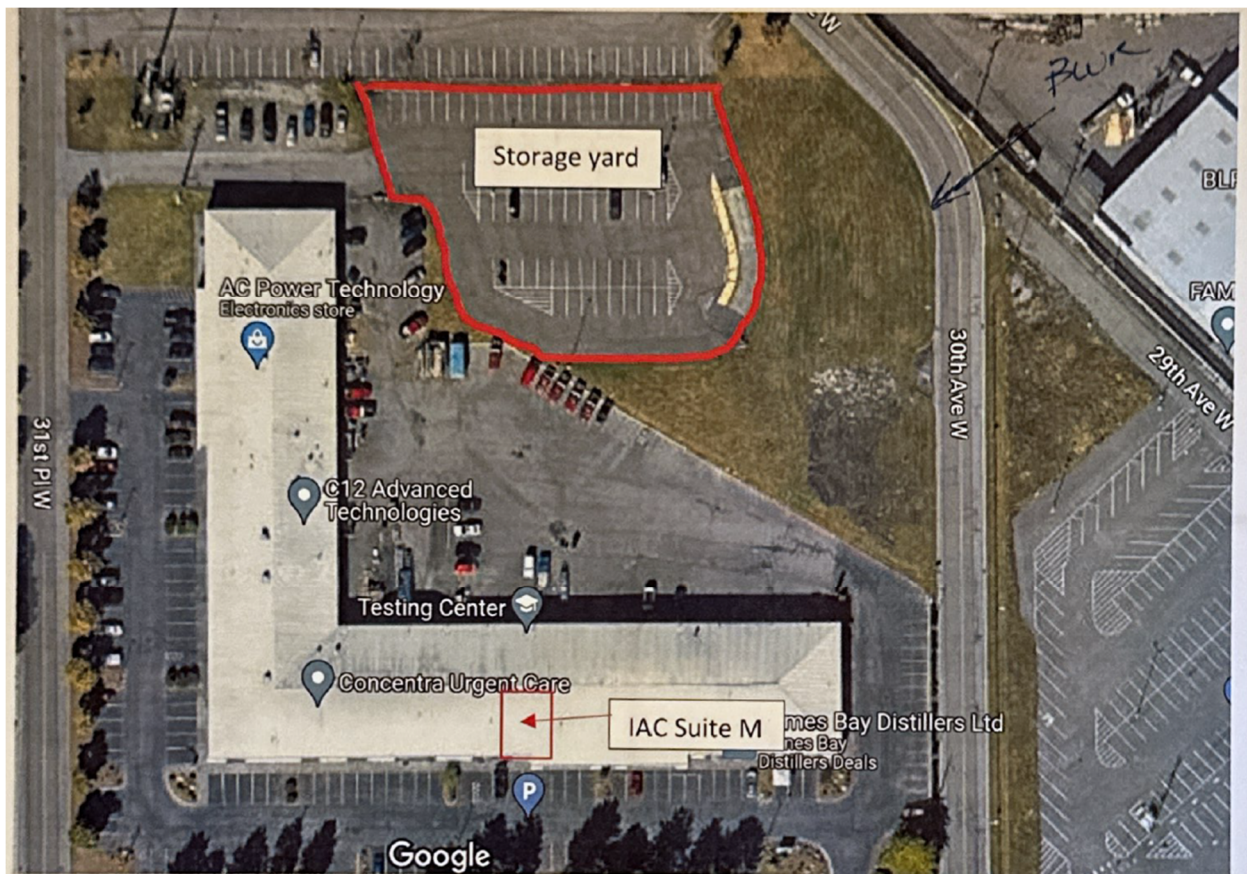
**SNOHOMISH COUNTY FACILITIES
SUSTAINABLE AIRCRAFT FUELS (SAF)
TEMPORARY RESEARCH AND DEVELOPMENT (R&D) FACILITY
PRE-DESIGN DATA COLLECTION AND PRELIMINARY CONCEPT
ANALYSIS**

Schedule A-2: Scope of Services For Facilities

Updated: July 3, 2023

I. Project Description – *The project description is as follows:*

Snohomish County Facilities (COUNTY) has a project underway to develop a temporary SAF R&D Facility within a leased parcel at Snohomish County Airport - Paine Field (see figure below). This task order will provide authorization for pre-design activities needed to further define the detailed requirements for design of the temporary facility, including up to 33,000 SF storage yard and up to 4,790 SF indoor suite/office space. Under this task order, JACOBS ENGINEERING GROUP INC. (CONSULTANT) will provide field survey, collection of existing utility information, geotechnical investigation, programming code/permit research and preliminary conceptual layout to inform the scope of work needed for the remainder of the design.



Scope of Work

1. DATA COLLECTION

1.1. Existing Data Collection and Review

1.1.1. CONSULTANT will collect and review survey and utility information provided by COUNTY for the PROJECT. At a minimum COUNTY will provide the following:

- As-builts of all existing County-owned utilities in the project vicinity
- Utility maps of all existing utilities in the project vicinity
- CCTV utility investigations reports and analyses of all available existing utilities in the project vicinity
- Any survey data or mapping information available for the site.
- Any subsurface or geotechnical data available for the site.
- Any other relevant information from COUNTY.
- Information regarding Office/manufacturing to be leased by COUNTY for the temporary facility, including pictures, floor plan and details regarding and existing fire protection and/or sprinklered areas.

1.2. Field Data Collection

1.2.1. CONSULTANT will develop for COUNTY review and approval a Data Collection Plan addressing the following topics:

- Location of all data collection activities
- Dates and times for all work elements
- Closure plan for pavements, access roads as well as undeveloped areas.
- A Safety Plan will be developed for the work.
- One Call Utility Locate will be called 48 hours prior to site survey.
- Contact List for all entities that will be onsite. Up to two subcontracted entities are expected to be onsite under the supervision of CONSULTANT. It is assumed that data collection will occur during up to three sit visits. The first will be two days for survey; the second will be one day for geotechnical borings and the third 2-3 hours visit will be to conduct a building inventory of the office/suite upon confirmation of the lease.

1.2.1.1. One draft and one final version of the data collection plan are expected.

1.2.2. CONSULTANT will provide up to two days of 3D Laser scanning or conventional land surveying of the project area to verify any additional utilities, pavement markings, curbs or other facilities that may affect the site being used as a temporary R&D Facility. COUNTY will arrange for permission to access the site and conduct the survey and limiting the number of vehicles onsite.

1.2.3. CONSULTANT will provide conventional surveying techniques and/or subsurface utility engineering techniques locate/verify location of the following project elements:

1.2.3.1. Invert elevations of all existing storm drainage and sanitary sewer facilities within the project vicinity, including inlet and outlet pipes and all flow control structures and orifices sizes.

1.2.3.2. Condition of existing storm drainage system pipes, curbs, detention/water quality basins/devices/ swales on the site.

1.2.3.3. Location of existing utilities. Including electric, communication, gas, sewer, water, etc.

1.2.3.4. Optional Task - CCTV coverage of existing gravity pipelines. CONSULTANT will subcontract for CCTV services and direct the work. An allowance of \$3000 is included for this optional task.

1.2.3.5. Locate all property and lease lot lines for display on the project basemaps.

1.2.4. CONSULTANT will arrange for up to two subsurface borings and up to two seismic cone penetration (sCPT) soundings to collect samples of native soils for use in foundation design. CONSULTANT will subcontract with a local geotechnical drilling and cone penetration testing firms to accomplish the borings and sCPTs. CONSULTANT geotechnical engineer will be onsite and supervise the field explorations in its entirety. This task order includes allowances of \$10,000 for drilling services and \$3000 for soil classification and soil support testing. Foundations designs will be conducted in subsequent task order along with other detailed design tasks.

Geotechnical Assumptions:

- Up to two geotechnical borings will be drilled to a depth of 40 feet below the ground surface using a hollow stem drilling technique unless refusal is encountered at a shallower depth. Standard penetration tests (SPT) will be performed, and split spoon samples will be collected at every 2.5 feet in the top 25 feet and at every 5 feet thereafter. .
- Subsurface soils are non-hazardous, and the spoils do not require special disposal.
- Pavement thickness at the exploration locations will be less than 4 inches thick and separate pavement coring will not be needed during explorations due to thicker pavement than anticipated.
- Up to two sCPT soundings will be performed at the project site. The sCPTs soundings will be advanced to 40 feet below the ground surface unless refusal is encountered at a shallower depth.
- Two geotechnical borings and the sCPTs will be completed in one 10-hour workday and will be observed by Jacobs field personnel in its entirety.
- Private utility locates, in addition to OneCall utility locates, will be performed at the project site around the proposed exploration locations prior to subsurface explorations.
- Geotechnical laboratory testing will be performed for select soil samples.
- Soil samples will be disposed of 3 months after the explorations. Soil samples collected during the explorations will be not be preserved in humidity controlled room.
- Cultural resources monitoring will not be needed during geotechnical borings.

1.2.5. CONSULTANT will conduct a brief building Inventory of the leased office space. The space will be up to 4790 SF in total, including up to 2000 SF of manufacturing space. The inventory is expected to take 2-3 hours to complete and will inventory finishes, lighting, HVAC, egress, fire protection, exhaust venting, and plumbing (infrastructure) for potential fuel storage.

1.3. Data Collection Summary Report

1.3.1. CONSULTANT will prepare a brief memo summarizing the data collection activities conducted and a Geotechnical Data Report. A one-hour MS-Teams conference call with three staff is assumed to discuss the brief data collection summary report.

1.4. Create Project Basemap and Digital Terrain Model (DTM) for design

1.4.1. CONSULTANT will create an AutoCAD basemap meeting and DTM for use in design of the temporary SAF R&D facility.

Task 1 Deliverables:

- Data Collection Plan (one draft and one final submission are assumed)
- Technical memorandum describing the site investigation conducted (LIDAR/conventional survey, CCTV pipe exploration, Office space building inventory and Geotechnical investigations/testing).

- Geotechnical Data Report
- AutoCAD Basemap and DTM of the project area for use in design.

2. PROGRAMMING

2.1. Develop Facility Program

2.1.1. CONSULTANT will work with COUNTY representatives, representatives from Washington State University (WSU), and any other participants desired by COUNTY to develop a Facility Program for the temporary SAF R&D Facility at Paine Field.

2.1.1.1. CONSULTANT will schedule, attend, and facilitate an Interactive Planning Session workshop to discuss specific needs for the facility and other known issues related to the temporary site development. The meeting is expected to be up to 8 hours in length and will be held in COUNTY offices with up to four CONSULTANT staff in attendance.

2.1.1.2. CONSULTANT will prepare written/pictorial preliminary Facility Program for the temporary SAF R&D facility. This includes:

- Define all components that make up the facility
- Functional flow diagram of the process
- Site layout of all components
- Define any building support structures to support the facility
- Office/manufacturing space

2.1.1.3. CONSULTANT will schedule a ½ day Facility Program review meeting in COUNTY offices between the draft and final submittals with up to four CONSULTANT staff in attendance.

Task 2 Deliverables:

- Draft and Final Facility Program (client comments addressed) in PDF and AutoCAD formats. One draft and one final submittal are anticipated.

3. CODE COMPLIANCE & PERMITTING REVIEW

3.1. Code Compliance Review

3.1.1. Upon approval for the Facility Program, CONSULTANT will research and determine the code requirements for a temporary SAF R&D facility as Programmed (task 2) to store and mix neat SAF and SAF mixing component on the identified site at Paine Field. SAF is assumed to be considered a Class-2 flammable liquid by the local Fire Marshal for this site. Code compliance will define fire protection requirements for site, support structures and leased office/manufacturing space. It is assumed that no more than 60,000 gallons will be stored onsite in a series of different above-ground tanks, drums and 1-gallon containers. There is the possibility that one or more structures will be required over mixing operations or other planned activities. There is also the possibility that some fuels may be stored within the leased office/manufacturing space.

3.2. Permitting Review

3.2.1. Upon approval for the Facility Program, CONSULTANT will research and determine the SEPA and NEPA requirements for a temporary SAF R&D facility as programmed (task 2) to store and mix neat SAF and SAF mixing component on the site at Paine Field. CONSULTANT will meet with Airport Environmental Lead to discuss SEPA permitting requirements and participate in a meeting with Airport staff to talk with

FAA staff to discuss NEPA permitting requirements, if needed. The meeting is expected to be up to 3 hours in length and will be held in COUNTY offices with up to four CONSULTANT staff in attendance.

3.2.2. CONSULTANT will schedule a meeting with Snohomish County Planning and Development Services (PDS) to discuss stormwater requirements of the current Snohomish County Stormwater Code for the temporary SAF R&D Facility as programmed (task 2). The meeting is expected to be up to 3 hours in length and will be held in COUNTY offices with up to four CONSULTANT staff in attendance.

3.2.3. CONSULTANT will investigate the permitting/approvals required for the project due to its proximity to a small hub commercial service airport (Paine Field).

3.3. Technical Memorandum

3.3.1. CONSULTANT will summarize the code compliance and permit requirements for the project in a brief technical memorandum.

3.3.2. CONSULTANT will schedule a ½ day Technical Memorandum Review Meeting in COUNTY offices between the draft and final submittals with up to four CONSULTANT staff in attendance.

Task 3 Deliverables:

- Brief Technical Memorandum addressing code compliance requirements, FAA requirements, and SEPA/NEPA and local permitting requirements in PDF and MS-Office formats. One draft and one final submittal are anticipated.

4. PRELIMINARY CONCEPT LAYOUT

4.1. Preliminary Concept

4.1.1. Upon approval of the program (task 2) and Code Permitting Tech Memo (Task 3), CONSULTANT will work with COUNTY representatives and representatives from Washington State University (WSU) to develop a preliminary concept layout to inform the final design requirements. It is expected that this would be approximately a 5% design concept. A draft and final submittal are expected.

4.1.2. CONSULTANT will support COUNTY to identify long-lead items needed for the temporary facility. CONSULTANT will assist in identifying three manufactures for each long-lead items that COUNTY procurement could procure.

4.1.3. CONSULTANT will prepare a level 5 Construction Cost estimate for the preliminary design concept.

4.1.4. CONSULTANT will schedule a ½ day Concept Review Meeting in COUNTY offices between the draft and final submittals with up to four CONSULTANT staff in attendance.

Task 4 Deliverables:

- Draft and Final Preliminary Concept Layout (client comments addressed) in PDF and AutoCAD formats. One draft and one final submittal are anticipated.

II. Task Order General Assumptions

1. The work shall be completed according to the attached schedule dated 2023-07-03.
2. CONSULTANT may reasonably rely upon the accuracy, timeliness, and completeness of the information provided by COUNTY.
3. CONSULTANT will inventory one office space designated by COUNTY. Inventory or evaluation of any additional spaces shall be extra work.

4. COUNTY will assist in coordinating access to tenant lease holds as needed to complete the work.
5. The CAD files will meet the current PAE CAD Standards at the time of the execution of this TASK ORDER. COUNTY will provide a copy of the current CAD Standards prior to the work starting.
6. CONSULTANT will provide up to 12 hours of support to COUNTY for identification of long-lead items and manufacturers.
7. In providing opinions of cost, financial analyses, economic feasibility projections, and schedules for the PROJECT, CONSULTANT has no control over cost or price of labor and materials; unknown or latent conditions of existing equipment or structures that may affect operation or maintenance costs; competitive bidding procedures and market conditions; time or quality of performance by operating personnel or third parties; and other economic and operational factors that may materially affect the ultimate PROJECT cost or schedule. Therefore, CONSULTANT makes no warranty that COUNTY's actual PROJECT costs, financial aspects, economic feasibility, or schedules will not vary from CONSULTANT's opinions, analyses, projections, or estimates. If COUNTY wishes greater assurance as to any element of PROJECT cost, feasibility, or schedule, COUNTY will employ an independent cost estimator, CONSULTANT, or other appropriate advisor.
8. In-person meetings will be conducted as allowed under current public health guidelines in place at the time of the meeting(s). Meetings will be held virtually via MS-Teams, teleconference, or similar means if public health guidelines continue to restrict in place meetings.

END OF SCHEDULE A-2 – Task Order 2 - SCOPE OF SERVICES

Schedule B-1

Facilities Task Compensation

The work will be accomplished under task orders authorized by the Facilities Project Manager within the general scope and total compensation limits authorized by this Agreement. The rates listed below shall be used unless otherwise approved. The maximum compensation and compensation method for each task order will be included in each approved task order. The travel time of Jacobs Engineering Group, Inc. or subconsultant staff spent in related to the provision of services under this Agreement shall not be compensated. No travel costs shall be reimbursed unless otherwise agreed in writing or defined by the task order. Time may be recorded and invoiced by Jacobs Engineering Group, Inc. in fractional hours with increments of no less than fifteen (15) minutes. All subconsultants or subcontracts may not be marked up more than 4.0%.

Jacobs Default Hourly Rate Table - General Engineering On-Call	
Category	Hourly Rate (Regular)
Manager/Principal Engineer 8	\$ 276.70
Manager/Principal Architect	\$ 276.70
Manager/Principal Engineer 7	\$ 260.10
Technical Specialist - Engineer 6	\$ 249.80
Engineer 5	\$ 216.80
Engineer 4 /Architect	\$ 173.40
Engineer 3	\$ 141.40
Engineer 2	\$ 119.80
Engineer 1	\$ 103.30
Technician 7	\$ 195.10
Technician 6	\$ 176.50
Technician 5	\$ 158.00
Technician 4	\$ 140.40
Technician 3	\$ 123.90
Technician 2	\$ 103.30
Technician 1	\$ 89.80
Environmetal/Planner 8	\$ 238.50
Environmetal/Planner 7	\$ 216.80
Environmetal/Planner 6	\$ 195.10
Environmetal/Planner 5	\$ 176.50
Environmetal/Planner 4	\$ 156.90
Environmetal/Planner 3	\$ 137.30
Environmetal/Planner 2	\$ 117.70
Environmetal/Planner 1	\$ 98.10
Admin Assistant 7	\$ 161.10
Admin Assistant 6	\$ 149.70
Admin Assistant 5	\$ 139.40
Admin Assistant 4	\$ 128.00
Admin Assistant 3	\$ 98.10
Admin Assistant 2	\$ 78.50
Admin Assistant 1	\$ 58.90
Notes	
1. Rates above include standard travel expenses and reprographics.	
2. All subcontract billing will have a 4% markup.	

Estimated Level of Effort: JACOBS
Paine Field - General Engineering Task Order 02
Sustainable Aircraft Fuels (SAF) Temp. R&D Facility
7/3/2023

																				ALL			
		Senior Consultant/ Quality Control	PM	Sr. Arch.	Senior Geotech	Code Specialist / Fire Protection Engineer	DM	Cost Estm	Electrical Eng.	Staff Arch.	Field Geotech	Project Automation Lead	Survey & Utilities	Survey Party Chief	Environmental Lead	Facility Planner	SEPA Specialist	Project Admin Support	Tech Editor	Jacobs Labor	SUBTOTAL	Markup on Subs (4%)	Total Budget
Task	Task/Subtask	Manager/ Principal Engineer 8	Manager/ Principal Engineer 8	Manager/ Principal Architect	Technical Specialist Engineer 6	Technical Specialist Engineer 6	Engineer 5	Engineer 5	Engineer 5	Architect 4	Engineer 4	Engineer 3	Engineer 1	Technician 3	Environmental/ Planner 7	Environmental/ Planner 6	Environmental/ Planner 4	Administrative Assistant 7	Administrative Assistant 6	Hours Total	\$ Total	SUB-CONSULTANTS	Jacobs Labor, Subconsultants & Markup On Subs
1.0	Data Collection	\$ 276.70	\$ 276.70	\$ 276.70	\$ 249.80	\$ 249.80	\$ 216.80	\$ 216.80	\$ 216.80	\$ 173.40	\$ 173.40	\$ 141.40	\$ 103.30	\$ 123.90	\$ 216.80	\$ 195.10	\$ 156.90	\$ 161.10	\$ 149.70	27	\$37,694	\$19,000	\$57,454
1.1	Existing Data Collection and Review	1	3	3	2	2	3	4		520	12,138	1,697	4,132	4,708				967	599	76			
1.2	Field Data Collection		6	6										2						5			
1.2	Subconsultant - Utilities		3	3							22		24	20						11	\$3,000		
1.2	Subconsultant - GeoTech (Driller + Testing)		1	1	4						4							2		6	\$16,000		
1.2.5	Office/Manufacturing Space Inventory				3					3										0			
1.3	Data Collection Summary Report / GeoDataReport	4	4		10						36		6					2		32			
1.4	Create Project Basemap & Digital Terrain Model (DTM)											12	4	16						0			
1.6																				0			
Task Hours		5	17	3	16	2	7	0	0	3	70	12	40	38	0	0	0	6	4	223			
2.0	Programming	\$ 1,107	\$ 5,534	\$ 1,107	\$ -	\$ -	\$ 7,805	\$ -	\$ 867	\$ 3,468	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,463	\$ -	\$ -	\$ -	\$25,351	\$0	\$0.00	\$25,351
2.1	Develop Facility Program	4	20	4	0	0	36	0	4	20	0	0	0	0	0	28	0	0	0	116			
Task Hours		4	20	4	0	0	36	0	4	20	0	0	0	0	0	28	0	0	0	116			
3.0	Code Compliance & Permitting Review	\$ 1,660	\$ 4,427	\$ 553	\$ -	\$ 5,995	\$ 4,770	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,168	\$ 780	\$ 3,766	\$ 322	\$ 898	\$25,339	\$0	\$0.00	\$25,339
3.1	Code Compliance Review	2	6	6		20	12													40			
3.2	Permitting Review	2	6	6			6								6		16			36			
3.3	Technical Memorandum	2	4	2		4									4	4	8	2	6	40			
Task Hours		6	16	2	0	24	22	0	0	0	0	0	0	0	10	4	24	2	6	116			
4.0	Preliminary Concept Layout	\$ 1,107	\$ 4,427	\$ 1,384	\$ -	\$ 999	\$ 4,770	\$ 3,469	\$ 867	\$ 5,202	\$ -	\$ 2,262	\$ 826	\$ -	\$ -	\$ 7,804	\$ -	\$ -	\$ -	\$33,117	\$0	\$0.00	\$33,117
4.1	Preliminary Concept	4	16	5		4	22	16	4	30		16	8			40				165			
TOTAL HOURS		19	69	14	16	30	87	16	8	53	70	28	48	38	10	72	24	8	10	620			
TOTAL COST		\$ 5,258	\$ 19,092	\$ 3,874	\$ 3,997	\$ 7,494	\$ 18,863	\$ 3,469	\$ 1,734	\$ 9,190	\$ 12,138	\$ 3,959	\$ 4,958	\$ 4,708	\$ 2,168	\$ 14,047	\$ 3,766	\$ 1,289	\$ 1,497	\$	\$ 121,501	\$ 19,000	\$ 141,261