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Engineers | Scientists | Planners | Designers

1 Cedar Street
Suite 400
Providence, RI 02903-1023

Client Authorization

New Contract: Date: June 8, 2017
 Amendment No.: Project No.: 82567.17

Project Name: Central Falls Landing
Lighting and Construction Services

		Cost Estimate	
		Amendment	Contract Total
To:	Mr. Thomas Deller Dept. of Planning & Economic Devel. City of Central Falls City Hall 580 Broad Street Central Falls, RI 02863	Labor:	\$28,851.52
		Expenses:	\$8,300.00
		TOTAL:	\$37,151.52
E-mail:	tdellar@centralfallsri.us	<input type="checkbox"/> Lump Sum	<input type="checkbox"/> Time & Expenses
		<input type="checkbox"/> Lump Sum + Expenses	
		<input checked="" type="checkbox"/> Cost + Fixed Fee	<input type="checkbox"/> Labor Multiplier
Phone No:	401.616.2481	Estimated Date of Completion:	

Scope of Services:

As per letter dated June 5, 2017 to Mr. Peter Friedrich.

Prepared By: William DeSantis

Department Approval:

Please execute this Client Authorization for VHB to proceed with the above scope of services at the stated estimated costs. No services will be provided until it is signed and returned to VHB.

Subject to attached terms & conditions.

Subject to terms & conditions in our original agreement dated

Vanasse Hangen Brustlin, Inc. Authorization *JTW*

Client Authorization (Please sign original and return)

By: _____

By: *[Signature]*

Print: _____

Print: *James A. Diossa*

Title: _____

Title: *Mayor*

Date: _____

Date: *6-15-2017*

[Signature]
Reviewed per F.S.A.

Leonard Morganis
Administration & Finance Officer

Approved as to form and correctness

[Signature]
City Solicitor



Mr. Thomas Deller
Ref: 82567.17
June 8, 2017
Page 2

STANDARD TERMS AND CONDITIONS. The engagement of VHB by Client is under the following terms and conditions. These terms and conditions are an integral part of the collective Agreement between Client and VHB.

SCOPE OF SERVICES. VHB shall perform the services set forth in the attached Scope of Services. Requests for additional services and any associated fee adjustment must be authorized in writing before additional services can begin.

PERFORMANCE STANDARDS. VHB's services require decisions that are not based upon science, but rather upon judgmental considerations. In the performance or furnishing of professional services hereunder, VHB, and those it is responsible for, shall exercise the degree of skill and care ordinarily exercised by similarly practicing professionals performing similar services under similar conditions in the same locality ("Standard of Care"). VHB shall be entitled to rely on the accuracy and completeness of data, reports, surveys, requirements, and other information provided by Client.

SCHEDULE. VHB shall perform its services as set forth in the Scope of Services as expeditiously as consistent with the Standard of Care and the orderly progress of the Work. VHB shall not be responsible for failure to perform or for delays in the services arising out of factors beyond the reasonable control or without the fault or negligence of VHB.

PAYMENT. The fee estimate for the proposed Scope of Services is valid for 60 days from the date of Proposal. All schedules set forth in the attached Scope of Services commence upon receipt of a signed Agreement and, if requested, a retainer. Retainers will be applied to the last invoice. A RETAINER OF \$[] IS REQUIRED BEFORE SERVICES WILL COMMENCE.

Invoices will be rendered monthly and are due upon receipt. Any invoice unpaid more than 30 days after date of invoice will bear interest at 1-1/2 percent per month.

If Client fails to pay any invoice within 45 days of the date of invoice, VHB may, without waiving any other claim or right against Client or incurring any liability for delay, suspend the services until VHB has been paid in full. Sealed plans, final documents, reports, and attendance at meetings/hearings will not be provided unless payment for services is current.

If VHB is performing services for Client under multiple projects, payments must be current on all projects for services hereunder to continue. Client acknowledges VHB's right to suspend services and withhold plans and documents, as provided above, if any payments are overdue. If services are

suspended for 30 days or longer, upon resuming services VHB shall be entitled to expenses incurred in the interruption and resumption of its services. If services are suspended for 90 days or longer, VHB shall be entitled to expenses incurred in the interruption and resumption of its services and fees for remaining services shall be equitably adjusted.

The parties agree to coordinate invoices to assure timely payment. At minimum, VHB's project manager and Client's representative will confer as often as necessary about any issues involving invoicing and collections. Client's representative will contact VHB's project manager forthwith upon receipt of an invoice about any questions or issues concerning invoiced amounts. If Client's representative and VHB's project manager are unable to resolve any questions or issues, Client's representative will line item any disputed or questionable amount and pay VHB. VHB, at its option, may revise and resubmit disputed amounts at a later date.

Should it become necessary to utilize legal or other resources to collect any or all monies rightfully due for services rendered under this Agreement, VHB shall be entitled to full reimbursement of all such costs, including reasonable attorneys' fees, as part of this Agreement.

OWNERSHIP OF WORK PRODUCT. All work products (whether in hard or electronic form) prepared by VHB pursuant to the Agreement are instruments of service with respect to the Project and are not authorized, intended or represented to be suitable for reuse by Client or others on extensions of the Project or on any other Project. Any reuse by Client or a third person or entity authorized by Client without written verification or adaptation by VHB for the specific application will be at Client's sole risk and without liability or legal exposure to VHB. Client shall release, defend, indemnify and hold harmless VHB from all claims, damages, losses and expenses, including attorneys' fees, arising out of or resulting therefrom. Any such verification or adaptation will entitle VHB to additional compensation at rates to be agreed upon by VHB and Client, third person, or entity seeking to reuse said documents.

Client recognizes that information recorded on or transmitted as electronic media, including CADD documents ("Electronic Documents") is subject to undetectable alteration, either intentional or unintentional, due to, among other causes, transmission, conversion, media degradation, software error, or human alteration. Accordingly, the Electronic Documents are provided to Client for informational purposes only and are not represented as suitable for any use or purpose.



Mr. Thomas Deller
Ref: 82567.17
June 8, 2017
Page 3

VHB retains the copyright in all work products produced in connection with this Agreement, unless otherwise agreed to in writing by an authorized VHB representative. VHB licenses to Client on a non-exclusive basis the use of work products produced solely in connection with this Agreement. The license may be revoked for any failure of Client to perform under this Agreement.

CERTIFICATIONS. VHB shall not be required to sign any documents, no matter by whom requested, that would result in VHB having to certify, guarantee or warrant the existence of conditions whose existence VHB cannot wholly ascertain. Any certification provided by VHB shall be so provided based on VHB's knowledge, information, and belief subject to the preceding sentence, and shall reflect no greater certainty than VHB's professional opinion developed through and consistent with the Standard of Care. VHB shall be compensated for any work necessary to assess project compliance with regulatory standards for purposes of such certification.

INSURANCE. VHB agrees to carry the following insurance during the term of this Agreement:

- Workmen's Compensation and Employer's Liability Insurance in compliance with statutory limits
- Comprehensive General Liability Insurance including Products Completed, Contractual, Property, and Personal Injury coverage with combined single limits of \$1,000,000 per occurrence and \$2,000,000 in the aggregate
- Professional Liability Insurance with a limit of \$1,000,000 per claim and in the aggregate
- Automobile Liability Insurance including non-owned and hired automobiles with a combined single limit of \$1,000,000 per occurrence

Certificates of insurance will be furnished upon request. If Client requires additional insurance coverage, and it is available, Client agrees to reimburse VHB for such additional expense.

INDEMNITY. Client and VHB shall at all times indemnify and save harmless each other, their officers, and employees on account of damages, losses, expenses, reasonable counsel fees, and compensation arising out of any claims for damages, personal injuries and/or property losses sustained by any person or entity, to the extent caused by the negligent acts, errors or omissions of the indemnifying party, its employees, or subcontractors in connection with the Project, and/or under this Agreement. Client agrees to the fullest extent permitted by law, to indemnify and hold harmless VHB, its officers, employees and subconsultants from and against any and all

claims, suits, demands, liabilities costs including reasonable attorneys' fees, and defense costs caused by, arising out of, or in any way connected with the detection, presence, handling, removal, abatement, or disposal of any asbestos or hazardous or toxic substances, products, or material that exist on, about, or adjacent to the job site.

LIMITATION ON VHB'S RESPONSIBILITY AND JOBSITE SAFETY. VHB will not be responsible for the acts or omissions of contractors or others at the Site, except for its own subcontractors and employees. Neither the professional activities of VHB nor the presence of VHB or its employees or subconsultants at a project site shall relieve the other parties on this project of their obligations, duties, and, including, but not limited to, construction means, methods, sequence, techniques, or procedures necessary for performing, superintending, and coordinating the Work in accordance with the contract documents and any health or safety precautions required by any regulatory agencies. VHB and its personnel have no authority to exercise any control over any construction contractor or its employees in connection with their work or any health or safety programs or procedures. Client agrees that Contractor shall be solely responsible for job site safety and warrants that this intent shall be carried out in Client's contract with Contractor.

ALLOCATION OF RISK. In recognition of the relative risks and benefits of the Project to both Client and VHB, the risks have been allocated such that Client agrees that to the fullest extent permitted by law, VHB's total liability in the aggregate to Client and any persons or entities claiming by, through or under Client, for any and all injuries, claims, losses, expenses, or damages whatsoever arising out of or in any way related to the Project and/or this Agreement from any cause or causes, including, but not limited to, VHB's negligence, errors, omissions, strict liability, statutory liability, indemnity obligation, breach of contract or breach of warranty shall not exceed the higher of \$50,000 (fifty thousand dollars), or ten (10) percent of the compensation actually paid to VHB. Client and VHB may agree to a higher limitation of liability for an increased fee.

DISPUTE RESOLUTION. All questions in dispute under this Agreement shall be submitted to non-binding mediation as a condition precedent to the institution of legal proceedings. On the written notice of either party to the other of the election to submit any dispute under this Agreement to mediation, each party shall designate their representative and shall meet within ten (10) days after the service of the notice. The parties shall then attempt to resolve the dispute within ten (10) days of meeting. Should the parties be unable to agree on a resolution



Mr. Thomas Deller
Ref: 82567.17
June 8, 2017
Page 4

of the dispute, then the parties shall proceed with mediation in accordance with the mediation rules of the American Arbitration Association. The cost of mediation shall be borne equally by both parties. This Agreement shall be governed and construed in accordance with the laws of the Commonwealth of Massachusetts.

LEGAL SUPPORT. To the extent VHB is required to respond to any dispute resolution process, including, but not limited to, requests for document production, discovery or a request to appear in any deposition or legal proceeding, which is related to the Scope of Services but does not arise out of VHB's negligent costs incurred by VHB, including reasonable attorneys' fees.

DESCRIPTIVE HEADINGS AND COUNTERPARTS. The headings contained in this Agreement are for convenience of reference only and shall not constitute a part hereof, or define, limit or in any way affect the meaning of any of the terms or provisions hereof. This Agreement may be executed in two or more counterparts, and any party hereto may execute any such counterpart, which, when executed and delivered, shall be deemed to be an original and all of such counterparts taken together shall be deemed to be one and the same instrument.

EXCLUSIVE REMEDIES. In the event that any dispute is not remedied through the alternative dispute resolution procedures set forth herein, all claims, actions, and rights of action arising from or relating in any way to this Agreement or the services performed thereunder, whether in contract, tort, indemnity and all other rights of action whatsoever, shall be filed in a court of competent jurisdiction within three years of the completion of such services, or all such claims, actions and rights of action shall be waived. Recovery under this Agreement shall be limited by the parties' agreement on Allocation of Risk and the remainder of this section.

Notwithstanding any other provision of this Agreement, neither party shall be liable to the other for any liquidated, incidental, special, indirect or other consequential damages incurred, regardless of the nature of the cause or whether caused by Client or VHB, or their employees, subconsultants, or subcontractors. Consequential damages include, without limitation, loss of use, loss of profits, loss of production, or business interruption; however, the same may be caused.

VHB and Client waive all claims against each other arising out of or related to this Agreement or the services to the extent that losses, damages, and liabilities associated with such claims have been compensated by the proceeds of property insurance or any other insurance policy.

VHB makes no warranties or guarantees, express or implied, under this Agreement or any other contract document with respect to its provision of professional services. In entering into this Agreement, Client has relied only upon the representations set forth in this Agreement. No verbal warranties, representations, or statements shall be considered a part of this Agreement or a basis upon which Client relied in entering into this Agreement.

NO THIRD PARTY BENEFICIARIES. Nothing contained in this Agreement shall create a contractual relationship with, or a cause of action in favor of, a third party against either Client or VHB. In addition, nothing herein shall be construed as creating a contractual relationship between Client and any VHB employee, representative, or consultant. Client agrees that in the event of a dispute regarding this Agreement or the services rendered by VHB hereunder, Client shall only seek recourse against VHB and waives any right to pursue a claim against VHB's individual directors, officers or employees.

VHB's commitments as set forth in this Agreement are based on the expectation that all of the services described in this Agreement will be provided. In the event Client later elects to reduce VHB's Scope of Services, Client hereby agrees to release, hold harmless, defend, and indemnify VHB from any and all claims, damages, losses or costs associated with or arising out of such reduction in services.

SEVERABILITY. The invalidity or unenforceability of any provisions of this Agreement shall not affect the validity or enforceability of any other provision of this Agreement, which shall remain in full force and effect.

TAXES. Any taxes or fees, enacted by local, state, or federal government and based on gross receipts or revenues, will be invoiced to and payable by Client as an additional amount due under this Agreement.

PROJECT SPECIFIC PROVISIONS. To the extent the Scope of Services involves any of the following services/geographies, the following general provisions apply accordingly:

AMERICANS WITH DISABILITIES ACT (ADA). Client understands and agrees that ADA standards are evolving and subject to varying, potentially contradictory interpretations and applications. VHB will use its reasonable professional efforts and judgment to interpret applicable ADA requirements and other federal, state and local laws, rules, codes, ordinances, and regulations as they apply to the project. VHB cannot and does not warrant or guarantee that Client's Project will comply with all ADA requirements or ADA interpretations or other applicable regulatory interpretations.



Mr. Thomas Deller
Ref: 82567.17
June 8, 2017
Page 5

CLIMATE CHANGE/FLOOD ANALYSIS. Consultant shall not be responsible or liable for any damages, losses, litigation, expenses, counsel fees and compensation arising out of any claims, damages, personal injuries and/or property losses related to flooding conditions whether directly or indirectly due to flood water damage, and Client shall at all times indemnify and hold harmless VHB, its respective officers, agents and employees on account of any related claims, damages, losses, expenses and counsel fees related thereto.

CONSTRUCTION PHASE SERVICES

SITE VISITS. VHB shall make periodic site visits upon the request of Client or as otherwise agreed in writing by Client and VHB for conformance with VHB's plans and specifications. Such visits are not intended to be an exhaustive check or a detailed inspection of Contractor's work. VHB shall not supervise or have control over Contractor's work nor have any responsibility for construction ways, means, methods, techniques, sequences, or procedures selected by Contractor nor for Contractor's safety precautions or programs in connection with the Work.

SHOP DRAWINGS. VHB's review and approval of submittals such as shop drawings, product data, samples, and other data, shall be for the limited purpose of checking for conformance with the design concept and the information in VHB's documents. This review shall not include review of the accuracy or completeness of details, such as quantities, dimensions, weights or gauges, fabrication processes, construction means or methods, coordination of the work with other trades, or construction safety precautions, all of which are the sole responsibility of Contractor and other unrelated parties. Review of a specific item shall not indicate that VHB has reviewed the entire assembly of which the item is a component. VHB shall not be responsible for any deviations from VHB's documents or other documents that are not brought to the attention of VHB in writing by Contractor. VHB shall not be required to review partial submissions or those for which submission of correlated items have not been received.

GEOTECHNICAL SERVICES. Client understands that VHB does not perform geotechnical services directly and, if requested, will retain a geotechnical subconsultant on behalf of Client, and VHB shall rely on the accuracy and completeness of data furnished as if the geotechnical services were contracted directly through Client.

TANK INSPECTION. Client will provide VHB with available underground storage tank (UST) documentation as necessary. VHB assumes that the documentation and site plans will be in

order, be complete and meet regulatory compliance standards. VHB's inspection services are to fulfill regulatory requirements and do not include invasive testing or equipment calibration and testing. Accordingly, Client expressly agrees that VHB shall have no liability for equipment functioning or malfunctioning, product releases or spills.

LSP SERVICES – PROJECTS LOCATED IN MASSACHUSETTS.

In accordance with the Massachusetts General Laws Chapter 21E, the performance of the services contained in this Agreement may require the engagement of a Licensed Site Professional (LSP) registered with the Commonwealth of Massachusetts under Massachusetts General Law Chapter 21A and the regulations promulgated by the Massachusetts Department of Environmental Protection (MADEP) thereunder (collectively the LSP Program). These laws and regulations place upon the LSP certain professional obligations owed to the public, including in some instances a duty to disclose the existence of certain environmental contaminants to the MADEP. In the event that any site for which VHB has provided LSP services is audited by MADEP pursuant to the provisions of the Massachusetts Contingency Plan, VHB shall be entitled to additional compensation to provide such services as may be necessary to assist Client in its response to MADEP.

Client understands and acknowledges that in the event the LSP's obligations under the LSP Program conflict in any way with the terms and conditions of this Agreement or the wishes or intentions of Client, the LSP is bound by law to comply with the requirements of the LSP Program. Accordingly, Client recognizes that the LSP shall be immune for all civil liability resulting from any alleged and/or actual conflict with the LSP Program. Client also agrees to hold VHB and its LSP harmless for any claims, losses, damages, fines, or administrative, civil, or criminal penalties resulting from the LSP's fulfillment of its obligations under the LSP Program.

PROJECTS LOCATED IN FLORIDA. FLORIDA STATUTES SECTION 558.0035 (2013), AN INDIVIDUAL EMPLOYEE OR AGENT MAY NOT BE HELD INDIVIDUALLY LIABLE FOR ECONOMIC DAMAGES RESULTING FROM NEGLIGENCE OCCURRING WITHIN THE COURSE AND SCOPE OF THIS AGREEMENT.



June 5, 2017

Ref: 71354

Mr. Peter Friedrichs
Director, Planning & Economic Development
Director, Redevelopment Agency
580 Broad Street
Central Falls, RI 02863

Attn: Mr. Thomas E. Deller, AICP

Re: Central Falls Landing
Site Lighting & Construction Services

Dear Mr. Friedrich:

This request is for hours and costs required to complete the design of a site lighting system and supplemental construction services to support the RIDOT funded Transportation Alternative project and the EPA Brownfields project.

In general, the request is for cost of the site lighting designer, costs to incorporate the lighting system plans and specifications into the RIDOT project construction bid, costs for on-site construction services to support the EPA and RIDOT construction and materials testing costs to satisfy RIDOT compliance requirements.

Please note the rates and overhead are identical to those our contract for the site design as per the RIDOT on-call drainage contract.

We respectfully request that the City approve this request. Should you have any questions, or require additional information, please do not hesitate to contact me.

Sincerely,

William J. DeSantis, PE
Senior Project Manager

Engineers | Scientists | Planners | Designers

1 Cedar Street
Suite 400
Providence, RI 02903
P 401.272.8100
F 401.277.8400

FEE AND SCOPE OF WORK

Site Lighting Design & Construction Support Services

Central Falls Landing
Central Falls, Rhode Island

PREPARED FOR

City of Central Falls
Office of Planning & Economic
Development
Central Falls, RI

PREPARED BY



1 Cedar Street, Suite 400
Providence, RI 02903
401.272.8100

JUNE 2017

Table of Contents

Scope of Work	1
General.....	1
Project Understanding and Assumptions.....	2
3.0 PS&E	4
Task 3.01 – Project Management.....	4
Subtask No. 3.01.05 – Meetings.....	4
Task 3.02 – Final Highway/Traffic Plans.....	4
Task 3.07 – Utilities.....	4
Subtask No. 3.07.01 – Utility Force Accounts.....	4
Task 3.08 – Contract Documents.....	5
Subtask No. 3.08.01 – Special Provisions.....	5
Task 3.09 – Value Engineering.....	5
Subtask No. 3.09.03 – Quantity Take-Off.....	5
4.0 Advertising	6
Task 4.03 – P.S.&E. Plan Submission.....	6
Subtask No. 4.03.01 – Final Highway/Traffic Plans.....	6
5.0 Construction	7
Task 5.03 – Materials Testing Coordination.....	7
Task 5.04 – Response to RFI's.....	7
Task 5.05 – Site Meetings.....	7
6.0 Work Not Included	8
Cost Proposal	9
Subconsultants	10



Scope of Work

General

The purpose of this scope is to provide site lighting design and to assist the City with the construction services of the Central Falls Landing project, located on the Blackstone River west of Broad Street in Central Falls, Rhode Island.

The proposed Central Falls Landing project will provide a site parking/multi-use public space, landscaping, river access and a Riverwalk. The project will enhance an existing public dock and boat ramp on City-owned property. The property has been identified by the United States Environmental Protection Agency (EPA) as a Brownfields Site, and the EPA is assisting the City with resources to remediate contaminated soils located there. The Rhode Island Department of Transportation, through its Transportation Alternative (TA) Program, is providing funding and support for developing a portion of the site for site parking, landscaping and public access to the River.

The project will also serve as the basis for site redevelopment and restoration of an existing historic mill building through a public/private partnership between the City and a private developer.

The VHB Construction Support team will coordinate with the EPA-funded Brownfields remediation project for this site.

Project Understanding and Assumptions

VHB understands that the City will need an engineering professional for site lighting design and to coordinate the construction inspection and materials testing for this project. These tasks include site lighting design, lighting plans and specifications, response to contractor requests-for-information (RFI), materials testing, construction inspection, and project close out. The required testing and inspection related to the soil remediation activities within this project are covered by the EPA Brownsfield project, however, there will be some coordination required to properly complete these tasks simultaneously.

VHB understands that the requirements for the bid review and analysis, materials testing and construction inspection shall be consistent with what is required of a federally funded project.

This scope assumes the following:

- › Lighting plan to be based on lighting design, pole/fixture selection and locations, coordinated with the City.
- › A separate contract project for the historic mill building rehabilitation/restoration by a private developer will be initiated subsequent to the completion of the Landing construction.
- › The bid review and analysis, materials testing and construction inspection shall adhere to RIDOT and FHWA standards.
- › Site lighting hard wired to utility electric service. Solar power is not a feasible alternative for site lighting.
- › Utilities to serve the restored mill building and the proposed new commercial building will be shown on the site plans, however, the construction cost will be covered by a private developer. In addition, the City/developer are responsible for coordination with utility companies for the design and location of these utilities.
- › Testing and inspection related to the EPA Brownfields soils remediation will be conducted and paid for by others.
- › The contractor is responsible for obtaining necessary building permits.

The following tasks are contained in the scope of work for the RIDOT SWTR002-State Drainage and Design Support Services Central Falls Landing include:

- › Advertising Services:
 - Pre-bid conference attendance.
 - Preparation of Addenda.
 - Bid analysis and review.
- › Construction Services:
 - Shop drawing review.

- Attendance at four (4) construction progress review/status meetings.
- Final field review for construction close-out

Services not covered in the RIDOT SWTR002 contract but contained in this scope of work include:

- › Site Lighting Design and utility coordination
- › Construction Services
 - Attendance at one Pre-construction conference.
 - Materials testing coordination and construction compliance record keeping.
 - Responses to contractor requests-for-information (RFI's).
 - Site meetings during construction beyond site remediation compliance observations.



Note: Tasks in the RIDOT Standard Scope Section 1 – Preliminary Design and Section 2 – Final Design are covered under other contracts.

3

PS&E

The following tasks have been identified in order to complete the P.S.&E. phase of this project.

Task 3.01 – Project Management

Subtask No. 3.01.05 – Meetings

VHB will attend two meetings with the city and stakeholder's committee to review site lighting options.

Task 3.02 – Final Highway/Traffic Plans

Lighting plans and details will be added to the project plans.

Task 3.07 – Utilities

Subtask No. 3.07.01 – Utility Force Accounts

VHB will coordinate with the power company for power connection for the site lighting system. It is assumed that the final coordination for the power connection will be completed during the construction phase by the contractor. Cost of the connection will be included in the contract bid.

Task 3.08 – Contract Documents

Subtask No. 3.08.01 – Special Provisions

Special Provisions will be added to cover details for site lighting.

Task 3.09 – Value Engineering

Subtask No. 3.09.03 – Quantity Take-Off

The quantity take-off and engineer's estimate will include items for the site lighting system.



4

Advertising

The following tasks have been identified in order to complete the Advertising phase of this project.

Task 4.03 – P.S.&E. Plan Submission

Subtask No. 4.03.01 – Final Highway/Traffic Plans

Final Lighting Plans and documents will be stamped and included in the project planset for submission to the City for advertising. It is anticipated that six (6) sets of construction plans will be required.



5

Construction

Task 5.03 – Materials Testing Coordination

VHB will coordinate with the contractor for materials testing compliance based on the RIDOT Materials Testing schedule. Costs of materials testing is included as a direct expense. Compliance testing for off-site disposal of material associated with the EPA Brownfields program is included in the EPA scope.

Task 5.04 – Response to RFI's

VHB will respond to contractor requests for information.

Task 5.05 – Site Meetings

Senior VHB will conduct eight field review meetings to complement the EPA Brownfields Remedial Activities Oversight.



6

Work Not Included

The following items, as indicated in the task descriptions, are not included in this proposal. If any of the following work is required, it will be completed by supplemental agreement:

- › Additional Survey Services beyond As-Built Drainage Survey.
- › Closure Report, Contaminated Soil Monitoring and ELUR.
(Covered by the EPA Brownfields Grant)
- › Environmental Permits beyond RIDEM Preliminary Determination Application.
(Covered by the RIDOT Contract)



Cost Proposal

Site Lighting Design and
Construction Services
Central Falls Landing, Central Falls, RI

6/5/2017

I. SALARY

<u>CATEGORY</u>	<u>HRS</u>	<u>RATE</u> ¹	<u>FEE</u>
Project Manager (PM)	52	\$63.00	\$3,276.00
Project Engineer (PN)	92	\$55.51	\$5,106.92
Staff Engineer (SN)	28	\$33.69	\$943.32
Draftsman (TD)	14	\$36.53	\$511.42
Office (TO)	<u>12</u>	\$28.92	\$347.04
	198		
	DIRECT LABOR		\$10,184.70
	OVERHEAD ² @ 157.53%		\$16,043.96
	SUBTOTAL		\$26,228.66
	FIXED FEE ³ @ 10.00%		<u>\$2,622.87</u>
	SUBTOTAL DESIGN FEE		\$28,851.52

II. ESTIMATED AT-COST EXPENSE W/O SURCHARGE

A. Plotting	\$150.00
B. Printing	\$100.00
C. Travel	\$150.00
D. Graphic Boards	\$0.00
E. Stenographer	\$0.00
F. Survey	\$0.00
G. Subconsultants -Lighting Design	\$2,900.00
H. Materials testing for RIDOT Compliance	\$5,000.00
SUBTOTAL EXPENSES & SUBS	<u>\$8,300.00</u>

TOTAL ESTIMATED FEE	\$37,151.52
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¹ Average hourly rate for this work.

² Approved overhead rate subject to yearly adjustment.

³ Fixed fee set at 10%

WBS Layout
Project Schedule Buildup

ID	WBS Code	WBS Description	Task Dur	Total Hrs	Σ S	Resources					Assumptions/ Constraints
						PM	PN	SN	TD	TO	
Project Totals											
				198		52	92	28	14	12	
		Study & Development		0		0	0	0	0	0	
	1.01	Project Management		0		0	0	0	0	0	
X	1.01.01	Correspondence		0		0	0	0	0	0	
X	1.01.02	Meetings		0		0	0	0	0	0	
X	1.01.03	Progress Reports		0		0	0	0	0	0	
X	1.01.04	Project Tracking		0		0	0	0	0	0	
X	1.01.05	Coordination w/ Public, Locals & Others		0		0	0	0	0	0	
X	1.01.05.M2195	Start Public Hearings/Workshops									
X	1.01.M1000	Notice to Proceed									
X	1.01.M1101	Proceed with 10%-30%									
	1.02	Preparation of Base Mapping		0		0	0	0	0	0	
X	1.02.01	Prepare Traffic Control Plan		0		0	0	0	0	0	
X	1.02.02	Digitize Existing Plans or Initiate Aerial Photography		0		0	0	0	0	0	
X	1.02.03	Surveys for Ground Control		0		0	0	0	0	0	
✓	1.02.04	Field Edit of Base Mapping		0		0	0	0	0	0	
X	1.02.05	Survey Location Plan Checklist		0		0	0	0	0	0	
X	1.02.M2103	Preparation of Base Mapping Complete									
	1.03	Analysis of Existing Conditions		0		0	0	0	0	0	
X	1.03.01	Prepare Traffic Control Plan for On-Site Reviews		0		0	0	0	0	0	
X	1.03.02	Review of Available Data and Plans		0		0	0	0	0	0	
X	1.03.03	On-Site Project Review		0		0	0	0	0	0	
X	1.03.04	Establish Existing Right-Of-Way		0		0	0	0	0	0	
X	1.03.05	Americans Disability Act (ADA) Evaluation		0		0	0	0	0	0	
X	1.03.M2101	Analysis of Existing Conditions Complete									
	1.04	Traffic and Safety Analysis		0		0	0	0	0	0	
X	1.04.01	Traffic Data Collection		0		0	0	0	0	0	
X	1.04.01.M2151	Traffic Data Collection Complete									
X	1.04.02	Capacity Analysis		0		0	0	0	0	0	
X	1.04.03	Accident Analysis		0		0	0	0	0	0	
X	1.04.04	Additional Traffic Studies and Analysis		0		0	0	0	0	0	
X	1.04.05	Identify Safety & Capacity Improvements		0		0	0	0	0	0	
X	1.04.05.M2153	Safety/Capacity Analysis Complete									
X	1.04.06	Conceptual Intersection/Signal Design		0		0	0	0	0	0	
X	1.04.06.M2155	Conceptual Intersection/Signal Design Complete									
X	1.04.07	Traffic Design & Analysis		0		0	0	0	0	0	

**WBS Layout
Project Schedule Buildup**

ID	WBS Code	WBS Description	Task Dur	Total Hrs	PM	Resources			Assumptions/ Constraints
						PN	SN	TD	
X	1.05	Hazardous Material/Waste Investigations		0	0	0	0	0	
X	1.05.01	Initial Site Assessment		0	0	0	0	0	
X	1.05.01.M2171	Initial HAZMAT Site Assessment Complete							
X	1.05.02	Preliminary Site Assessment		0	0	0	0	0	
X	1.05.02.M2173	Preliminary HAZMAT Site Assessment Complete							
	1.06	Cultural Resources Section		0	0	0	0	0	
X	1.06.01	Project Notification		0	0	0	0	0	By RIDOT
X	1.06.01.M2161	Cultural Resources Project Notif. Complete							
X	1.06.02	Phase I Cultural Resource Survey (106)		0	0	0	0	0	
X	1.06.02.M2162	Phase I Cultural Resource Survey Complete							
X	1.06.03	Phase II Cultural Resource Survey (106)		0	0	0	0	0	
X	1.06.03.M2163	Phase II Cultural Resource Survey Complete							
X	1.06.04	Determination of Effect/Impacts		0	0	0	0	0	
X	1.06.04.M2164	Cultural Res. Determination of Effects/Impacts Complete							
X	1.06.05	Section 106 Documentation		0	0	0	0	0	By RIDOT
X	1.06.05.M2169	Section 106 Documentation Complete							
X	1.06.06	Section 4(f)		0	0	0	0	0	By RIDOT
X	1.06.06.M2166	Section 4(f) Complete							
X	1.06.07	Section 6(f) for Properties Improved w/ Land & Water		0	0	0	0	0	
X	1.06.07.M2168	Section 6(f) Complete							
X	1.06.M1115	Cultural Investigations Complete							
X	1.07	Landscape Architecture		0	0	0	0	0	
X	1.07.01	Visual Analysis		0	0	0	0	0	
X	1.07.02	Conceptual Landscape Design		0	0	0	0	0	
X	1.07.02.M21L1	Conceptual Landscape Design Complete							
X	1.07.03	Preliminary Landscape Estimate		0	0	0	0	0	
X	1.07.04	Renderings		0	0	0	0	0	
X	1.07.05	Typical Landscape Sections		0	0	0	0	0	
X	1.07.05.M21L3	Landscape Elements Identified							
X	1.07.06	Landscape Plans (Hardscape & Softscape)		0	0	0	0	0	
X	1.07.08	Special Provisions for Landscape Elements		0	0	0	0	0	
X	1.07.09	Landscape Estimate		0	0	0	0	0	
X	1.07.10	Preliminary DOQ for Landscape Elements		0	0	0	0	0	

WBS Layout Project Schedule Buildup

ID	WBS Code	WBS Description	Task Dur	Total Hrs	Σ S	Resources					Assumptions/ Constraints
						PM	PN	SN	TD	TO	
X	1.08	Conceptual Highway Plans		0		0	0	0	0	0	
X	1.08.01	Evaluate Existing Conditions & Identify Deficiencies		0		0	0	0	0	0	
X	1.08.02	Develop Typical Cross Sections		0		0	0	0	0	0	
X	1.08.03	Define Alternatives		0		0	0	0	0	0	
X	1.08.04	Develop Alternatives		0		0	0	0	0	0	
X	1.08.05	Evaluate Alternatives		0		0	0	0	0	0	
X	1.08.05.M2105	<i>Highway/Traffic Plans & Profiles Complete</i>									
X	1.08.06	Select Preferred Alternative		0		0	0	0	0	0	
X	1.08.07	Design Exceptions		0		0	0	0	0	0	
X	1.08.M1125	<i>Preferred Alternative Selected</i>									
X	1.09	Bridge Evaluation and Report		0		0	0	0	0	0	
X	1.09.01	Review of Existing Plans & Reports		0		0	0	0	0	0	
X	1.09.02	Prepare Bridge Testing & Inspection Program		0		0	0	0	0	0	
X	1.09.03	Prepare Traffic Control Plans for Bridge Testing		0		0	0	0	0	0	
X	1.09.04	Field Inspection		0		0	0	0	0	0	
X	1.09.05	Deck Testing		0		0	0	0	0	0	
X	1.09.06	Fatigue Analysis		0		0	0	0	0	0	
X	1.09.07	Evaluation and Final Report		0		0	0	0	0	0	
X	1.09.07.M2111	<i>Bridge Evaluation & Report Complete</i>									
X	1.09.08	Design Exceptions		0		0	0	0	0	0	
	1.10	Environmental Documentation		0		0	0	0	0	0	
X	1.10.01	Identify Environmental Class of Action		0		0	0	0	0	0	
X	1.10.01.M2190	<i>Purpose & Need Study</i>									
X	1.10.02	Categorical Exclusion (CE)		0		0	0	0	0	0	By RIDOT
X	1.10.03	Environmental Assessment		0		0	0	0	0	0	
X	1.10.04	Environmental Impact Statement		0		0	0	0	0	0	
X	1.10.04.01	Social-Economic Consequences		0		0	0	0	0	0	
X	1.10.04.02	Environmental Consequences		0		0	0	0	0	0	
X	1.10.04.03	Cultural Consequences		0		0	0	0	0	0	
X	1.10.04.04	Construction Consequences		0		0	0	0	0	0	
X	1.10.04.05	Report		0		0	0	0	0	0	
X	1.10.04.05.M2193	<i>Record of Decision Complete</i>									
✓	1.10.M1120A	<i>CE Complete</i>									
X	1.10.M1120B	<i>EA Complete</i>									
X	1.10.M1120C	<i>EIS Complete</i>									
X	1.11	Environmental Permitting		0		0	0	0	0	0	

WBS Layout Project Schedule Buildup

ID	WBS Code	WBS Description	Task Dur	Total Hrs	SS	Resources					Assumptions/ Constraints
						PM	PN	SN	TD	TO	
✓	1.11.01	Flag Existing Wetland Boundaries		0		0	0	0	0	0	
✗	1.11.02	Survey Wetland Boundaries		0		0	0	0	0	0	
✗	1.11.03	Review Project for Potential Permit Req'ts		0		0	0	0	0	0	
✗	1.11.03.M2131	<i>Environmental Permitting Review Complete</i>									
✗	1.11.04	RI Department of Environmental Management		0		0	0	0	0	0	
✗	1.11.05	Army Corps of Engineers		0		0	0	0	0	0	
✗	1.11.06	Coastal Resource Management Council		0		0	0	0	0	0	
✗	1.11.07	U.S. Coast Guard		0		0	0	0	0	0	
✗	1.11.08	Environmental Protection Agency (EPA)		0		0	0	0	0	0	
✗	1.11.09	Special Requirements (Mgn't Plan, etc)		0		0	0	0	0	0	
✗	1.11.10	Environmental Permitting Submission (EPS)		0		0	0	0	0	0	
✗	1.11.M2133	<i>Round 1 Permitting Complete</i>									
✗	1.12	Preliminary Right-of-Way (ROW)		0		0	0	0	0	0	
✗	1.12.01	Establish Existing ROW (existing Plans/Plats/Deeds)		0		0	0	0	0	0	
✗	1.12.01.M2143	<i>Preliminary ROW Plans Complete</i>									
✗	1.12.02	Prepare Traffic Control Plans for ROW Field Survey		0		0	0	0	0	0	
✗	1.12.03	ROW Field of Survey		0		0	0	0	0	0	
✗	1.12.04	Evaluate ROW (Preferred and/or Alternatives)		0		0	0	0	0	0	
✗	1.12.05	Base Map of ROW Plans & Condemnation Plats		0		0	0	0	0	0	
✗	1.12.05.M2141	<i>ROW Base Map Complete</i>									
✗	1.12.06	Parking Impact Plans		0		0	0	0	0	0	
✗	1.12.07	Preliminary SD-List (Major Items)		0		0	0	0	0	0	
✗	1.12.08	Field Review Project (Consultant, Engr, Real Estate)		0		0	0	0	0	0	
✗	1.13	Preliminary Subsurface Exploration		0		0	0	0	0	0	
✗	1.13.01	Prepare Traffic Control Plans		0		0	0	0	0	0	
✗	1.13.02	Borings		0		0	0	0	0	0	
✗	1.13.02.M2121	<i>Utility Borings Complete</i>									
✗	1.13.02.M2181	<i>Geotechnical Borings Complete</i>									
✗	1.13.03	Geotechnical Investigations and Report		0		0	0	0	0	0	
✗	1.13.03.M2183	<i>Geotechnical Investigation & Report Complete</i>									
✗	1.13.04	Underground Utility Investigation		0		0	0	0	0	0	
✗	1.13.04.M2123	<i>Underground Utility Investigation Complete</i>									

WBS Layout Project Schedule Buildup

ID	WBS Code	WBS Description	Task Dur	Total Hrs	Σ S	Resources				Assumptions/ Constraints	
						PM	PN	SN	TD		TO
X	1.14	Storm Water Management		0		0	0	0	0	0	
X	1.14.01	Preliminary Drainage Design		0		0	0	0	0	0	
X	1.14.02	Preliminary Drainage		0		0	0	0	0	0	
X	1.14.03	Preliminary Drainage Plans & Details		0		0	0	0	0	0	
X	1.15	Bridge Type Study Report		0		0	0	0	0	0	
X	1.15.01	Work Sequence		0		0	0	0	0	0	
X	1.15.02	The Report		0		0	0	0	0	0	
X	1.15.02.M2113	<i>Bridge Type Study Report Complete</i>									
	1.16	Design Study Report		0		0	0	0	0	0	
X	1.16.01	Bridge Type Study		0		0	0	0	0	0	
X	1.16.02	Draft Design Study Report		0		0	0	0	0	0	
X	1.16.03	Final Design Study Report		0		0	0	0	0	0	
X	1.16.M1130A	<i>Draft DSR Complete</i>									
X	1.16.M1130B	<i>Final DSR Complete</i>									
	1.17	Highway/Traffic Plans & Profiles (Selected Alternative)		0		0	0	0	0	0	
X	1.17.01	Cover Sheet		0		0	0	0	0	0	
X	1.17.02	Typical Sections		0		0	0	0	0	0	
X	1.17.03	General Plans		0		0	0	0	0	0	
X	1.17.04	Profiles		0		0	0	0	0	0	
X	1.17.05	Location Plans & Geometry		0		0	0	0	0	0	
X	1.17.06	Cross Sections		0		0	0	0	0	0	
X	1.17.07	Highway Plan Submission		0		0	0	0	0	0	
X	1.17.08	Traffic Plans & Details		0		0	0	0	0	0	
X	1.17.M1105	<i>Typical Sections Complete</i>									
X	1.17.M1110	<i>Conceptual Plans & Profiles Complete</i>									
X	1.17.M1185	<i>10% Submission Submitted</i>									
X	1.17.M1190	<i>30% Submission Submitted</i>									
X	1.18	Bridge Plans of Selected Alternative		0		0	0	0	0	0	
X	1.18.01	Cover Sheet		0		0	0	0	0	0	
X	1.18.02	General Plans & Sections		0		0	0	0	0	0	
X	1.18.03	Location Plan		0		0	0	0	0	0	
X	1.18.04	Foundation Plan		0		0	0	0	0	0	
X	1.18.05	Utility Plan		0		0	0	0	0	0	
X	1.18.06	Abutment Plans		0		0	0	0	0	0	
X	1.18.07	Pier Plans		0		0	0	0	0	0	
X	1.18.08	Girder & Framing Details		0		0	0	0	0	0	

WBS Layout Project Schedule Buildup

ID	WBS Code	WBS Description	Task Dur	Total Hrs	SS	Resources				Assumptions/ Constraints	
						PM	PN	SN	TD		TO
X	1.18.09	Deck, Sidewalk, and Parapet Details		0		0	0	0	0	0	
X	1.18.10	Expansion Joint Details		0		0	0	0	0	0	
X	1.18.11	Standard & Miscellaneous Details		0		0	0	0	0	0	
X	1.18.12	Hydraulic Report		0		0	0	0	0	0	
X	1.18.13	Bridge Plan Submission		0		0	0	0	0	0	
X	1.18.13.M2115	Bridge Plans of Selected Alternative Complete									
X	1.18.M1185B	10% Bridge Submission									
X	1.18.M1190B	30 % Bridge Submission									
X	1.19	Utilities									
X	1.19.M2125	Utility Design Complete									
	1.20	Value Analysis		0		0	0	0	0	0	
X	1.20.01	Value Engineering		0		0	0	0	0	0	
X	1.20.02	Constructability		0		0	0	0	0	0	
X	1.20.03	Preliminary Quantity Take-Off		0		0	0	0	0	0	
X	1.20.04	Cost Analysis/Project Estimates		0		0	0	0	0	0	
X	1.20.05	Project Schedule		0		0	0	0	0	0	
X	1.20.M1195	Start Constructability									
X	1.20.M1198	S&D Phase Complete									
X	1.20.M1199	S&D Final Approval									
	2	Final Design		0		0	0	0	0	0	
	2.01	Project Management		0		0	0	0	0	0	
	2.01.01	Correspondence		0		0	0	0	0	0	
	2.01.02	Meetings		0		0	0	0	0	0	
	2.01.02.M2208	Meeting with Chief Design Engineer									
	2.01.03	Progress Reports		0		0	0	0	0	0	
	2.01.04	Project Tracking		0		0	0	0	0	0	
	2.01.05	Coordination with Public, Local & Others		0		0	0	0	0	0	
	2.01.M1201	Proceed with 75%-90%									
X	2.02	Right-of-Way Submission		0		0	0	0	0	0	
	2.02.01	Right-Of-Way Plans		0		0	0	0	0	0	
	2.02.01.M2247	ROW Plans Complete									
	2.02.02	Structural Disposition List		0		0	0	0	0	0	
	2.02.03	Parking Impact Plans and Solutions (Revised)		0		0	0	0	0	0	
	2.02.04	ROW Plats/Condemnation Plats		0		0	0	0	0	0	
	2.02.04.M2243	ROW Plats/Condemnation Plats Complete									
	2.02.05	Plat Descriptions		0		0	0	0	0	0	

Project: Central Falls Landing
 Central Falls, RI
 Project #: 84143.16

WBS Layout Project Schedule Buildup

ID	WBS Code	WBS Description	Task Dur	Total Hrs	SS	Resources				Assumptions/ Constraints		
						PM	PN	SN	TD		TO	
✓	2.02.05.M2245	Plat Descriptions Complete										
✓	2.02.06	Temporary Use Agreement		0			0	0	0	0		
✓	2.02.06.M2241	ROW Temporary Use Agreements Complete										
✓	2.02.07	Final Design Field Review w/ Real Estate Section		0			0	0	0	0		
	2.03	Traffic Design and Analysis		0			0	0	0	0		
✓	2.03.01	Signal Plans and Details		0			0	0	0	0		
✗	2.03.01.M2253	Signal Plans & Details Complete										
✗	2.03.02	Signing, Lighting, and Striping Plans Details		0			0	0	0	0		
✗	2.03.02.M2255	Signing, Striping Plans & Details Complete										
✗	2.03.03	Electrical Plans and Details		0			0	0	0	0		
✗	2.03.03.M2251	Electrical & Lighting Plans & Details Complete										
✗	2.03.04	Maintenance of Traffic		0			0	0	0	0		
✗	2.04	Storm Water Management and Design		0			0	0	0	0		
✓	2.04.01	Final Drainage Calculations		0			0	0	0	0		
✓	2.04.01.M2221	Final Drainage Calculations Complete										
✓	2.04.02	Drainage Plans and Details		0			0	0	0	0		
✓	2.04.02.M2223	Drainage Plans and Details Complete										
✓	2.04.03	Utility Plans and Details		0			0	0	0	0		
✓	2.04.03.M2227	External Utility Plans & Details Complete										
	2.05	General Plans (Highway/Traffic)		0			0	0	0	0		
✓	2.05.01	Cover Sheet		0			0	0	0	0		
✓	2.05.02	Typical Sections		0			0	0	0	0		
✓	2.05.03	General Plans and Details		0			0	0	0	0		
✓	2.05.03.M2201	General Plans Complete										
✓	2.05.04	Location Plan and Geometry		0			0	0	0	0		
✓	2.05.05	Landscape Plans		0			0	0	0	0		
✓	2.05.06	Cross Sections		0			0	0	0	0		
✓	2.05.06.M2202	Cross Sections Complete										
✓	2.05.07	Grading Plans		0			0	0	0	0		
✗	2.06	Bridge Design and Plans		0			0	0	0	0		
✗	2.06.01	Bridge Design		0			0	0	0	0		
✗	2.06.02	Typical Sections and Elevations		0			0	0	0	0		
✗	2.06.03	General Plans		0			0	0	0	0		
✗	2.06.04	Foundation Plans		0			0	0	0	0		
✗	2.06.05	Substructure Plan		0			0	0	0	0		
✗	2.06.06	Superstructure Plan		0			0	0	0	0		

WBS Layout Project Schedule Buildup

Task ID	WBS Code	WBS Description	Task Dur	Total Hrs	Σ S	Resources					Assumptions/ Constraints
						PM	PN	SN	TD	TO	
X	2.06.07	Details		0		0	0	0	0	0	
X	2.06.M2211	Bridge Design & Plans Complete									
X	2.06.M2219	90% Bridge Submission Submitted									
X	2.07	Permitting		0		0	0	0	0	0	
v	2.07.01	RI-DEM		0		0	0	0	0	0	
X	2.07.02	Army Corps of Engineers		0		0	0	0	0	0	
X	2.07.03	Coastal Resource Management Council		0		0	0	0	0	0	
X	2.07.04	U.S. Coast Guard		0		0	0	0	0	0	
X	2.07.05	EPA/EPS		0		0	0	0	0	0	
X	2.07.06	Special Requirements		0		0	0	0	0	0	
X	2.07.M2231	Environmental Permitting Complete									
X	2.08	Landscape Architecture		0		0	0	0	0	0	
X	2.08.01	Typical Sections		0		0	0	0	0	0	
X	2.08.02	Landscape Plans (Hardscape/Softscape)		0		0	0	0	0	0	
X	2.08.02.M22L1	Landscape Plans Complete									
X	2.08.03	Landscape Details		0		0	0	0	0	0	
X	2.08.03.M22L3	Landscape Details Complete									
X	2.08.04	Special Provisions		0		0	0	0	0	0	
X	2.08.05	Landscape Estimate		0		0	0	0	0	0	
X	2.08.05.M22L5	Landscape Estimate Complete									
	2.09	Contract Documents		0		0	0	0	0	0	
v	2.09.01	Job Specific Special Provisions		0		0	0	0	0	0	
v	2.09.01.M2204	Job Specific Special Provisions Complete									
v	2.09.02	Contract Book		0		0	0	0	0	0	
v	2.09.02.M2206	Contract Book Complete									
v	2.09.M1250	75% Submission Submitted									
v	2.09.M1290	90% Submission Submitted									
v	2.09.M1292	CIRI Submission									
v	2.09.M1299	Approval of Final Design									

**WBS Layout
 Project Schedule Buildup**

ID	WBS Code	WBS Description	Task Dur	Total Hrs	Σ	Resources				Assumptions/ Constraints	
						PM	PN	SN	TD		TO
	3.02	Final Highway/Traffic Plans		18		4	6	0	8	0	
✓	3.02.01	Cover Sheet		0		0	0	0	0	0	
✗	3.02.02	Typical Sections		0		0	0	0	0	0	
✗	3.02.03	General Plans and Details		18		4	6	0	8	0	
✗	3.02.04	Location Plans and Geometry		0		0	0	0	0	0	
✗	3.02.05	Profiles		0		0	0	0	0	0	
✗	3.02.06	Cross Sections		0		0	0	0	0	0	
✗	3.02.07	Grading Plans		0		0	0	0	0	0	
✗	3.02.08	Grade Sheets		0		0	0	0	0	0	
✓	3.02.09	Traffic Plans & Details		0		0	0	0	0	0	
✓	3.02.M2301	Highway Plans/Traffic Complete									
✗	3.03	Final Bridge Plans		0		0	0	0	0	0	
✗	3.03.01	Typical Sections and Elevations		0		0	0	0	0	0	
✗	3.03.02	General Plans		0		0	0	0	0	0	
✗	3.03.03	Foundation Plan		0		0	0	0	0	0	
✗	3.03.04	Substructure Plan		0		0	0	0	0	0	
✗	3.03.05	Superstructure Plan		0		0	0	0	0	0	
✗	3.03.06	Details		0		0	0	0	0	0	
✗	3.03.M2311	Bridge Plans Complete									
✗	3.04	Landscape Architecture		0		0	0	0	0	0	
✗	3.04.01	Typical Sections		0		0	0	0	0	0	
✗	3.04.02	Landscape Plans (Hardscape & Softscape)		0		0	0	0	0	0	
✗	3.04.03	Landscape Details		0		0	0	0	0	0	
✗	3.04.04	Special Provisions		0		0	0	0	0	0	
✗	3.04.05	Landscape Estimate		0		0	0	0	0	0	
✗	3.05	Right-of-Way Submission		0		0	0	0	0	0	
✓	3.05.01	Structural Disposition List		0		0	0	0	0	0	
✓	3.05.02	Parking Impact Plan and Solutions (Revised)		0		0	0	0	0	0	
✓	3.05.03	ROW Plats/Condemnation Plats		0		0	0	0	0	0	
✓	3.05.04	Plat Descriptions		0		0	0	0	0	0	
✓	3.05.05	Temporary Use Agreements		0		0	0	0	0	0	
✓	3.05.M1350	ROW Complete									

WBS Layout
Project Schedule Buildup

ID	WBS Code	WBS Description	Task Dur	Total Hrs	SS	Resources				Assumptions/ Constraints	
						PM	PN	SN	TD		TO
X	3.06	Permitting		0		0	0	0	0	0	
✓	3.06.01	RI-DEM		0		0	0	0	0	0	
X	3.06.02	Army Corps of Engineers		0		0	0	0	0	0	
X	3.06.03	Coastal Resource Management Council		0		0	0	0	0	0	
X	3.06.04	U.S. Coast Guard		0		0	0	0	0	0	
X	3.06.05	EPA		0		0	0	0	0	0	
X	3.06.06	Special Requirements		0		0	0	0	0	0	
X	3.06.M1340	Permits Certified		0		0	0	0	0	0	
X	3.07	Utilities		14		2	4	4	2	2	
X	3.07.01	Utility Force Accounts		14		2	4	4	2	2	
X	3.07.M1330	Utility Work Complete									
	3.08	Contract Documents		10		2	6	0	0	2	
✓	3.08.01	Special Provisions		10		2	6	0	0	2	
✓	3.08.02	Contract Book		0		0	0	0	0	0	
X	3.08.02.M2315	Contract Document Complete									
X	3.08.M1390	PS&E Submission Submitted									
X	3.08.M1399	PS&E Submission Approval									
X	3.08.M2319	PS&E Bridge Submission Submitted									
	3.09	Value Engineering		10		2	4	4	0	0	
X	3.09.01	Value Engineering		0		0	0	0	0	0	
X	3.09.02	Constructability		0		0	0	0	0	0	
X	3.09.03	Quantity Take-Off		10		2	4	4	0	0	
X	3.09.03.M23Q1	Quest Disk Complete									
X	3.09.04	Contract Time Determination		0		0	0	0	0	0	
X	3.09.04.M2307	CTD & Schedule Complete									
X	3.09.05	Project Schedule		0		0	0	0	0	0	
	4	Advertising		10		2	4	4	0	0	
	4.01	Project Management and Coordination		0		0	0	0	0	0	
✓	4.01.01	Correspondence		0		0	0	0	0	0	
✓	4.01.02	Meetings		0		0	0	0	0	0	
✓	4.01.03	Progress Reports		0		0	0	0	0	0	
X	4.01.04	Project Tracking		0		0	0	0	0	0	
X	4.01.05	Coordination w/ Public, Locals & Others		0		0	0	0	0	0	
X	4.01.M1401	Proceed with Advertising									
	4.02	Administration		0		0	0	0	0	0	
X	4.02.01	RIFAP and RIC Numbers		0		0	0	0	0	0	

**WBS Layout
Project Schedule Buildup**

ID	WBS Code	WBS Description	Task Dur	Total Hrs	gS	Resources				Assumptions/ Constraints	
						PM	PN	SN	TD		TO
X	4.02.02	Funding Authorization		0		0	0	0	0	0	
X	4.02.03	Advertising Dates		0		0	0	0	0	0	
X	4.02.M1385	<i>Receipt of RIC#, Appr. Codes & FAPs</i>									
X	4.02.M1392	<i>FHWA Funding Approved</i>									
X	4.02.M1395	<i>PR 1240 Issued</i>									
	4.03	P. S. & E. Plan Submission		10		2	4	4	0	0	
✓	4.03.01	Final Highway/Traffic Plans		10		2	4	4	0	0	
X	4.03.02	Final Bridge Plans		0		0	0	0	0	0	
X	4.03.03	Final Landscape Plans		0		0	0	0	0	0	
✓	4.03.04	Contract Documents		0		0	0	0	0	0	
✓	4.04	Advertising Dates		0		0	0	0	0	0	
✓	4.04.01	Pre-Bid Conference		0		0	0	0	0	0	
✓	4.04.01.M24B1	<i>Pre-Bid Conference Complete</i>									
✓	4.04.02	Contract Addenda		0		0	0	0	0	0	
✓	4.04.03	Bid Opening		0		0	0	0	0	0	
✓	4.04.03.M24B3	<i>Bid Data Entry Complete</i>									
✓	4.04.04	Bid Analysis		0		0	0	0	0	0	
✓	4.04.M1405	<i>Start Bid Opening</i>									
✓	4.04.M1410	<i>Award Complete</i>									
	5	Construction		126		36	64	16	4	6	
	5.01	Project Management and Coordination		0		0	0	0	0	0	
✓	5.01.01	Correspondence		0		0	0	0	0	0	
✓	5.01.02	Meetings		0		0	0	0	0	0	
✓	5.01.03	Progress Reports		0		0	0	0	0	0	
✓	5.01.04	Project Tracking		0		0	0	0	0	0	
✓	5.01.05	Coordination w/ Public, Locals & Others		0		0	0	0	0	0	
✓	5.01.M	<i>Proceed with Construction</i>									
	5.03	Construction Services		126		36	64	16	4	6	
✓	5.03	Materials Testing Coordination		26		4	12	8	0	2	
✓	5.04	Response to RFI's		38		8	16	8	4	2	
✓	5.05	Site Meetings		62		24	36	0	0	2	
✓	5.02.M	<i>Approve Shop Drawings</i>									



Subconsultants



February 14, 2017

Mr. Jack Madden
Vanasse Hangen Brustlin, Inc.
1 Cedar Street Suite 400
Providence, RI 02903

Re: Madeira Park
Central Falls, RI

Gentlemen:

We submit herewith our quotation as follows for electrical engineering services.

- A. Site observations of existing conditions.
- B. Prepare site electrical plan with lighting, details, schedules, and notes for bidding and construction purposes. Wiring to be shown to a control cabinet on the site with a utility meter, panelboard and controls. Plan to be based on lighting design, pole / fixture selection and locations, coordinated with the City.
- C. Shop drawing review

\$2,900.00

This quotation does not include:

- 1. Planning Board meetings.
- 2. Site observations during construction.
- 3. Contract and change order review.
- 4. Prebid conference or job meetings.
- 5. Utility company coordination.

If this proposal is acceptable, please sign a copy and return.

Very truly yours,

ENGINEERING ADVANTAGE, INC.

Lawrence A. Farrer, P.E.
President
laf/qvhb-P-CentralFallsPark

ACCEPTED: _____