SECOND AMENDMENT

This Amendment is made and entered into on the date last executed below ("Effective Date"), by and between Pinellas County, a political subdivision of the State of Florida, hereinafter referred to as "County," and Hardesty & Hanover, LLC, Tampa, FL hereinafter referred to as "Contractor," (individually referred to as "Party", collectively "Parties").

WITNESSETH:

WHEREAS, the County and the Contractor entered into an agreement on September 14, 2016, pursuant to Pinellas County Contract No. 145-0317-NC (hereinafter "Agreement") pursuant to which the Contractor agreed to provide Professional Engineering Services for the County to develop plans, specifications, and perform all other professional engineering services as may be required during the construction of the Beckett Bridge Replacement project (Bridge No. 154000) located within Tarpon Springs for County; and

WHEREAS, Section Twenty-five (25) of the Agreement permits modification by mutual written agreement of the parties; and

WHEREAS, the County and the Contractor now wish to modify the Agreement in order to provide for an extension, an increase to the Consultant rates, a supplement for additional work to meet Florida Department of Transportation (FDOT) Local Agency Program (LAP) compliance requirements for federally funded projects and a supplement for additional post design services, at the same terms and conditions;

NOW THEREFORE, the Parties agree that the Agreement is amended as follows:

1. The term is hereby extended for an additional five (5) years period until September 14, 2031.
2. The not-to-exceed total expenditure is revised to reflect an increase in the amount of $525,565.46 for a revised not-to-exceed total expenditure of $3,295,018.46.
3. The Agreement is hereby amended to include Attachment A – Updated Billing Rates, Attachment B – Design Update Fee Summary, and Attachment C – Post Design Services Fee Summary.
4. Except as changed or modified herein, all provisions and conditions of the original Agreement and any amendments thereto shall remain in full force and effect.

Each Party to this Amendment represents and warrants that: (i) it has the full right and authority and has obtained all necessary approvals to enter into this Amendment; (ii) each person executing this

Amendment on behalf of the Party is authorized to do so; (iii) this Amendment constitutes a valid and legally binding obligation of the Party, enforceable in accordance with its terms.

IN WITNESS WHEREOF the Parties herein have caused this Second Amendment to be executed by their undersigned officials, who are duly authorized to bind the Parties to the Agreement.

Pinellas County, a political subdivision of the State of Florida:

Signature

Brian Scott
Printed Name

Chair
Printed Title

June 17, 2025.
Date

ATTEST: KEN BURKE, CLERK
By:

BOARD OF COUNTY COMMISSIONERS SEAL PINELLAS COUNTY, FLORIDA

Contractor: Hardesty & Hanover, LLC

Signature

James M. Phillips III
Printed Name

Principal
Printed Title

May 7, 2025
Date

APPROVED AS TO FORM
By: *Miles Belknap*
Office of the County Attorney

Attachment A - Updated Billing Rates

5110 Eisenhower Blvd, Suite 310
Tampa, FL 33634
T: 813.749.0823

February 20, 2025

Ann Venables, AICP, ENV SP
Senior Project Manager
Capital Improvements Division
Pinellas County Public Works
14 S Ft. Harrison Ave., 5th Floor, Clearwater, FL 33756

Re: 001037A Beckett Bridge Replacement
Request for Adjustment of Billing Rates

Dear Ann,

H&H respectfully requests an increase in billing rates for the Post Design Services phase to adjust for the fact that the current rates were established in October of 2015 in initial negotiations for the design fee. At the time the project was planned to go through 24 months of design and then directly into bid, award, and construction. The project design phase experienced delays due to easement acquisitions and was completed in April of 2023. The project has since been in delay due to funding and has not been advertised as of this request. However, post design service efforts have been requested to update the design and construction documents in preparation for letting as soon as funding is secured, and all easement issues are resolved.

This request also applies to establish rates for the additional services the County has requested as part of obtaining federal funding for construction through the Local Agency Participation (LAP) program. A fee proposal for this additional work is submitted separately from this rate adjustment request.

Respectfully,

James M. Phillips III, PE
Principal / Project Manager

Attachments: Proposed Rates w/backup

REQUEST FOR UPDATED BILLING RATES

ENGINEERING CONSULTING SERVICES
Contract No. 145-0317-NC (SS)

Professional Engineering Services for Beckett Bridge Replacement

County PID: 001037A

Prepared for:

Pinellas County
Public Works Transportation Engineering Section
14 S. Fort Harrison Avenue
Clearwater, FL 33756

Prepared by:

Hardesty &Hanover, LLC
5110 Eisenhower Blvd., Suite 310
Tampa, FL 33634
February 20, 2025

TABLE OF CONTENTS

A. H&H Requested Billing Rate Update

H&H requests an increase in billing rates for the Post Design Services phase to adjust for the fact that the current rates were established in October of 2015 in initial negotiations for the design fee. At the time the project was planned to go through 24 months of design and then directly into bid, award, and construction. The project has now been in delay and has not been advertised as of this request. However, post design service efforts have been requested to update the design and construction documents in preparation for letting as soon as funding is secured, and all easement issues are resolved.

H&H respectfully requests updating the billing rates for H&H, Tierra and HDR as detailed in the following sections.

a. Proposed H&H Billing Rates

001037A Beckett Bridge Replacement **Date:** **11/7/2024**
Post Design Services **Prepared By:** **JMP**
Request for Update of Contract Billing Rates

Original Contract Billing Rates (Estabilished Oct. 2015)	
H&H	
Job Classification	**Rate**
Project Manager	$ 249.00
Chief Engineer	$ 244.00
Senior Engineer	$ 170.00
Senior Project Engineer	$ 133.00
Project Engineer	$ 110.00
Engineer	$ 108.00
Engineer in Training	$ 89.00
Senior Technician	$ 92.00
Public Information Officer	$ 149.00
Clerical	$ 55.00

HDR	
Job Classification	**Rate**
Chief Eng.	$ 227.70
Sr. Eng.	$ 172.80
Project Engineer	$ 125.00
EIT	$ 93.60
Senior Designer	$ -
Designer	$ 95.00
CADD Technician	$ 72.90

Proposed Contract Billing Rates for Post Design (2025-2028)	
H&H	
Job Classification	**Rate**
Project Manager	$ 397.36
Chief Engineer 2	$ 281.75
Chief Engineer 1	$ 240.45
Senior Engineer 2	$ 238.37
Senior Engineer 1	$ 213.02
Engineer 2	$ 148.77
Engineer 1	$ 143.43
Engineer in Training	$ 115.25
Senior Technician	$ 121.74
Public Information Officer	NA
Clerical	$ 90.07

HDR	
Job Classification	**Rate**
Chief Engineer 2	$ 285.00
Senior Engineer 1	$ 265.50
Engineer 1	$ 172.50
Engineering Intern	$ 141.00
Chief Designer	$ 255.00
Senior Engineering Technician	$ 121.50
Senior Accountant	$ 135.00

001037A Beckett Bridge Replacement **Date:** **11/7/2024**
Post Design Services **Prepared By:** **JMP**
Request for Update of Contract Billing Rates

Original Contract Billing Rates (Estabilished Oct. 2015)	
Tierra	
Job Classification	**Rate**
Project Manager	$ 166.50
Senior Engineer	$ 171.00
Chief Scientist	$ 137.04
Senior Project Engineer	$ 141.64
Geotech Engineer	$ 113.81
Engineering Intern	$ 96.62
Senior Scientist	$ 115.65
Designer	$ 93.32
Sr. Eng Technician	$ 82.61
Geotech Technician	$ 66.39
Secretary Clerical	$ 72.00

Proposed Contract Billing Rates for Post Design (2025-2028)	
Tierra	
Job Classification	**Rate**
Chief Engineer 2	$ 236.14
Senior Engineer 1	$ 217.43
Chief Scientist	$ 182.50
Principal Engineer	$ 251.96
Engineer 2	$ 170.62
Engineer 1	$ 148.42
Engineering Intern	$ 118.54
Senior Scientist	$ 159.83
Senior Designer	$ 133.73
Senior Engineering Technician	$ 112.73
Engineering Technician	$ 88.35
Secretary/Clerical	$ 110.81

001037A Beckett Bridge Replacement **Date:** **11/7/2024**
Post Design Services **Prepared By:** **JMP**
Request for Update of Contract Billing Rates

FullName	Hourly	Classification	Classification Avg. Hourly Rate	Proposed Hourly Rate at Multiplier
Phillips, James	$ 137.02	Project Manager	$ 137.02	$ 397.36
Heimburg, Stephan	$ 119.10	Chief Engineer 2		
Collins, Alexander	$ 90.82	Chief Engineer 2		
Englert, James	$ 95.08	Chief Engineer 2	$ 97.16	$ 281.75
Heimburg, Lisa	$ 94.68	Chief Engineer 2		
D. Delledonne	$ 86.10	Chief Engineer 2		
Gowins, Dennis	$ 77.68	Chief Engineer 1		
Barloga, Kerrie	$ 80.28	Chief Engineer 1	$ 82.92	$ 240.45
D. Tarantino	$ 81.44	Chief Engineer 1		
Jones, James	$ 92.26	Chief Engineer 1		
Gagliano, Matthew	$ 82.84	Sr. Engineer 2		
Barthle, Andrew	$ 99.34	Sr. Engineer 2		
Lara, Marco	$ 79.28	Sr. Engineer 2		
Soto, Jorge	$ 81.44	Sr. Engineer 2	$ 82.20	$ 238.37
Viciedo, Roberto	$ 86.06	Sr. Engineer 2		
Plocica, Robert	$ 76.60	Sr. Engineer 2		
J. Kevlon	$ 74.30	Sr. Engineer 2		
Wolczynski, Matthew	$ 77.70	Sr. Engineer 2		
Khan, Sayyid	$ 61.12	Sr. Engineer 1		
Newberry, James	$ 71.82	Sr. Engineer 1		
Rosignoli, Chiara	$ 79.16	Sr. Engineer 1		
Gross, Zachary	$ 69.18	Sr. Engineer 1		
Skourellos, Lindsey	$ 63.72	Sr. Engineer 1		
Wolczynski, James	$ 69.02	Sr. Engineer 1		
Granados, Cesar	$ 74.38	Sr. Engineer 1	$ 73.45	$ 213.02
Wuttrich, Rafal	$ 83.56	Sr. Engineer 1		
Dunn, Jason	$ 78.86	Sr. Engineer 1		
Hideck, Robert	$ 83.42	Sr. Engineer 1		
Cowan, David	$ 69.70	Sr. Engineer 1		
Spencer, Johnathan	$ 74.78	Sr. Engineer 1		
Hedge, Steve	$ 76.18	Sr. Engineer 1		
Mamone, Travis	$ 51.30	Engineer 2	$ 51.30	$ 148.77

001037A Beckett Bridge Replacement **Date:** **11/7/2024**
Post Design Services **Prepared By:** **JMP**
Request for Update of Contract Billing Rates

FullName	Hourly	Classification	Classification Avg. Hourly Rate	Proposed Hourly Rate at Multiplier
Chen, Anlun	$ 49.90	Engineer 1		
Diaz, Marco	$ 61.80	Engineer 1		
Ozimek, Quinten	$ 48.26	Engineer 1		
Quesada Garcia, Cesar	$ 43.66	Engineer 1	$ 49.46	$ 143.43
Bower, Benjamin	$ 48.92	Engineer 1		
Myers, Robert	$ 48.08	Engineer 1		
Al-Kaimakchi, Anwer	$ 45.04	Engineer 1		
Ruseckas, Vilius	$ 50.02	Engineer 1		
Bu, Jason	$ 38.98	Engineering Intern		
Krell, Dylan	$ 38.28	Engineering Intern		
Louis, Steevens	$ 39.10	Engineering Intern		
Sanchez, Tomas	$ 41.84	Engineering Intern		
Blakeley, Lauren	$ 42.98	Engineering Intern		
Casanova, Skylar	$ 37.14	Engineering Intern	$ 39.74	$ 115.25
Larson, Mitch	$ 37.14	Engineering Intern		
Wallace, Duane	$ 38.22	Engineering Intern		
Cummings, Sarah	$ 35.82	Engineering Intern		
Rosso, Patrick	$ 38.22	Engineering Intern		
A. Yang	$ 49.00	Engineering Intern		
Teasley, Stephen	$ 40.16	Enigneering Intern		
Barthle, Theodore	$ 41.98	Engineering Technician	$ 41.98	$ 121.74
Sileno, Wanda	$ 35.38	Secretary/Clerical	$ 31.06	$ 90.07
Hideck, Kimberly	$ 26.74	Secretary/Clerical		

001037A Beckett Bridge Replacement **Date: 11/7/2024**
Post Design Services **Prepared By: JMP**
Request for Update of Contract Billing Rates

Contract Multiplier for H&H
Based on July 17, 2024 FDOT Overhead Audit Letter

Home Overhead	139.49%	
Facilities Capital Cost of Money	0.598%	
Home Direct Expenses	3.51%	
Operarting Margin	38.00%	See Operating Margin Worksheet
Overhead Plus Labor Multiplier	2.816	Total of Overhead Plus 1.0 for Direct Labor
Contract Duration Adjustment Factor	3	See Operating Margin Worksheet
CDAF Factor plus 1.0	1.03	
Effective Project Multiplier	**2.90**	

b. H&H Operating Margin Worksheet

OPERATING MARGIN JUSTIFICATION

1. CONTACT INFORMATION

a. Firm Name:			b. Phone No.:
Hardesty & Hanover			813-293-7060
c. Address (including suite number):	d. City:	e. State:	f. Zip Code:
5110 Eisenhower Blvd., Suite 310	Tampa	Florida	33634

2. COMPLEXITY OF PROJECT

The degree of difficulty associated with this project. Are there unique aspects to the project? Degree of coordination with others outside FDOT should be considered. This includes other agencies, municipalities, etc. multiple districts, multimodal projects

LOW – Straight-forward projects. Well defined and specific scope of services.

Typical Project Type

- **Bridge Inspection:** bridge inspection except scour; All
- **CEI:** Category 1 Bridges**,** 3R Rural, signalization, simple and straight-forward projects.
- **Design:** simple 3R-Rural; 3R Urban ride only.
- **Geotechnical:** standard.
- **PD&E:** Small simple projects with specific scopes.
- **Planning:** Data/traffic counts.
- **Survey:** resurfacing 3R rural/urban.
- **Traffic Operations:** turn-lane projects (design).

MEDIUM – Projects with some specialized areas requiring some specialized skills.

Typical Project Type

- **Bridge Inspection:** generally not applicable.
- **CEI:** resurfacing with some improvements; ITS, construction on new alignments, and signal system timing, development and implementation; rural arterials and rural interstate capacity improvements.
- **Design:** 3R Urban with some improvements, intersection, improvements with safety, Category 1 bridges.
- **PD&E:** widening with limited issues and bridge replacement with limited impacts.
- **Railroads:** all.
- **Survey:** survey in water areas.
- **Traffic Operations:** traffic operations studies and signal design projects.

HIGH – Complex multi-disciplined projects requiring specialized skills with significant management issues. Project that has numerous complicated traffic phases, involved highly technical construction features requiring specialized skills of the inspection staff. A complex project may also include complex involvement by multiple third parties (i.e., multiple utility relocations, railroads, airports, regulatory agencies, municipalities). The size of the project will not necessarily determine whether the construction project is complex. Large, repetitive projects on their own are not considered complex.

Typical Project Type

- **Bridge Inspection:** bridge scour.
- **CEI:** CEI for multi-level bridges in a corridor or interchange; numerous complicated traffic phases; specialized technical skills; Coating Systems; bridge projects involving movable spans, significant post-tensioning operations, pre-cast segmental components, and steel structures with large horizontal and vertical curvature; Multiple third party involvement (railroads, utilities, airports, municipalities, regulatory agencies)
- **Design:** new alignments, major widening, major reconstruction, railroad bridge design, Segmental Class 2 bridges, Movable Bridges.
- **PD&E:** PD&E with Feasibility study, multiple disciplines, significant issues;
- **Planning:** large planning (multimodal).
- **Survey:** pilings and bridges.
- **Traffic Operations:** ITS

Complexity of Project Allowed Range: 5% to 7%	**Consultant %: 7.00%**

JUSTIFICATION:

Category 2 (movable) bridge

3. DEGREE OF (FINANCIAL) RISK

Indicate the amount of financial risk assumed by the consultant in relation to this project.

LOW – Contracts with well-defined and specific scopes, minimal probability of costs overruns and low financial risk exposure. Scope clarification meeting held, if applicable.

Typical Project Type

- **Bridge Inspection:** bridge inspections.
- **CEI:** subconsultants providing support personnel, ITS.
- **Design:** simple 3R rural, 3R urban ride only.
- **Geotechnical:** all.
- **PD&E:** accurate and specific scope & pre-negotiation meetings.
- **Planning:** most planning.
- **Survey:** all, including SUE.
- **Traffic Operations:** traffic operations studies; traffic counts.

MEDIUM – Projects with potential for additional coordination efforts with outside agencies/parties; coordination with several Districts, multiple municipalities, etc.

Typical Project Type

- **Bridge Inspection:** bridge scour.
- **CEI:** standard CEI contract.
- **Design:** design for new alignments, major reconstruction, and widening.
- **PD&E:** experimental design and broad scopes.
- **Planning:** some planning.
- **Railroads:** all.
- **Traffic Operations:** traffic signal projects, ITS design

HIGH – lump sum consultant contracts with possibility of overrunning costs; experimental design; projects involving significant financial risk, hazardous materials, and potential for significant unknown issues.

Typical Project Type

- **CEI:** high visibility, lump sum CEI contracts, multiple projects.
- **Design:** projects with multiple bridges.
- **PD&E:** multiple alternatives, multiple agency approval required.
- **Planning:** large multimodal projects (airports, seaports, railroads, transit).

Degree of (Financial) Risk Allowed Range: 3% to 5%	**Consultant %: 4.00%**

JUSTIFICATION:

Medium risk: post design services uncertainty based on contractor's approach and quality of submittals

OPERATING MARGIN JUSTIFICATION

4. PROJECT SCHEDULE

LOW – no critical short term deadlines or requirements for large staffing concentrations, unfunded projects to go on the shelf.

Typical Project Type

- **Bridge Inspection:** bridge inspection; bridge scour.
- **CEI:** resurfacing**; s**upport services.
- **Design:** all 3R projects, standard schedule
- **PD&E:** no design phase scheduled in Work Program.
- **Planning:** all.
- **Railroads:** all.
- **Traffic Operations:** ITS.
- **Survey:** all 3R projects.

MEDIUM – standard schedule.

Typical Project Type

- **Bridge Inspection:** generally not applicable.
- **CEI:** ITS; push button construction.
- **Design:** standard design; bridges, large corridors.
- **Traffic Operations:** traffic counts.
- **Survey:** increased number of crews needed

HIGH – High visibility projects with short durations and aggressive schedules requiring large commitment of staff. Fast track projects with high profile and quick implementation schedule.

Typical Project Type

- **Bridge Inspection:** generally not applicable.
- **CEI:** multi-financial project contract, construction bonus, urban (day & night), high visibility; phased utility reallocations by others during the construction project.
- **Design:** mobility/economic stimulus.
- **PD&E:** design phase funded in the Work Program, bridge replacements.

Project Schedule Allowed Range: 1% to 3%	**Consultant %: 2.00%**

JUSTIFICATION:
Medium: Subject to delays in project letting and construction

5. COST CONTROL EFFORTS

The degree to which the Consultant controls its costs for wages rates (by region), overhead, expenses and FCCM. The cost control is not generally dependent upon the type of project. Factors to be considered in negotiating this criteria are the following, and other project-specific items:

- Burdened salary rates (by region) by classification.
- Reasonableness of the proposed distribution of staffing for the project.
- Specialized services requiring specialized staff.
- Reimbursed or excluded premium overtime.

LOW – **(3% to 6%)** Lower or minimal cost control efforts.

MEDIUM – **(7% to 15%)** Moderate cost control efforts.

HIGH – **(16% to 27%)** Substantial cost control efforts.

Cost Control Efforts Allowed Range: 3% to 27%	**Consultant %: 25.00%**

JUSTIFICATION:
Project requries specialized staff for navigable waterway crossing, movable bridge, public involvement, environmental issues. Consultant maintains a low overhead and low expenses.

6. OPERATING MARGIN JUSTIFICATION TOTAL

The total for items **2 through 5** will be calculated for you.

Total Allowed Range: 12% to 42%	**Consultant %: 38.0**%

7. CONTRACT DURATION ADJUSTMENT FACTOR

For contracts of longer duration (reference table below), the Department shall allow a Contract Duration Adjustment Factor (CDAF). CDAF is defined as an economic price adjustment, necessitated by instability of labor costs for an extended period of contract performance (Reference 48 CFR Section 16.203). CDAF is not negotiated, but shall be a fixed number of points based on the overall anticipated length of contract (project schedule). CDAF points shall be allocated by the Department as follows:

Anticipated Length of Contract	CDAF Points
0-12 Months	0
13-24 Months	0
25-36 Months	3
37-48 Months	4.5
49-60 Months	5.5

a) For new contracts, CDAF is applied beginning with the first labor hour incurred.
b) CDAF shall only be applicable for contracts selected (contract final ranking) on or after November 1, 2014.
c) In the event a contract selected on or after November 1, 2014 is extended (time extension) by six or more months, CDAF shall be applied prospectively to the extended/remaining services only, in accordance with the table shown above.
d) CDAF shall not be applied to contracts selected before November 1, 2014, nor contract amendments/time extensions for contracts selected before November 1, 2014.
e) For calculation purposes, CDAF shall be added to operating margin and applied to unloaded direct salaries.
f) CDAF is applicable only to consultant firms who are awarded operating margin points.

For Calculation purposes, CDAF shall be added to Operating Margin and applied to direct salaries:

Allowed CDAF for this project: 3

c. H&H FDOT Overhead Audit

Florida Department of Transportation

RON DESANTIS
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JARED W. PERDUE, P.E.
SECRETARY

July 17, 2024

Michael Sileno, Principal
HARDESTY & HANOVER, LLC
3250 West Commercial Boulevard, Suite 348
Ft. Lauderdale, Florida 33309

Dear Mr. Sileno:

The Florida Department of Transportation has reviewed your application for prequalification package and determined that the data submitted is adequate to technically prequalify your firm for the following professional services types of work per Rule 14-75, F.A.C.:

2.0	Project Development and Environmental (PD&E) Studies
3.1	Minor Highway Design
3.2	Major Highway Design
3.3	Controlled Access Highway Design
4.1.1	Miscellaneous Structures
4.1.2	Minor Bridge Design
4.2.1	Major Bridge Design - Concrete
4.2.2	Major Bridge Design - Steel
4.2.3	Major Bridge Design - Segmental
4.3.1	Complex Bridge Design - Concrete
4.3.2	Complex Bridge Design - Steel
4.4	Movable Span Bridge Design
5.1	Conventional Bridge Inspection
5.2	Movable Bridge Inspection
5.3	Complex Bridge Inspection
5.4	Bridge Load Rating
6.1	Traffic Engineering Studies
7.1	Signing, Pavement Marking and Channelization
7.2	Lighting
7.3	Signalization
9.4.1	Standard Foundation Studies
9.4.2	Non-Redundant Drilled Shaft Bridge Foundation Studies
13.6	Land Planning/Engineering
14.0	Architect

Your firm is now technically prequalified with the Department for Professional Services in the above referenced work types. The overhead audit has been accepted, and your firm may pursue projects in the referenced work types with fees of any dollar amount. This status shall be valid until June 30, 2025, for contracting purposes.

Approved Rates

Home Overhead	Facilities Capital Cost of Money	Premium Overtime	Home Direct Expense
139.49%	0.598%	Reimbursed	3.51%

Per Title 23, U.S. Code 112, there are restrictions on sharing indirect cost rates. Refer to Code for additional information.

Should you have any questions, please feel free to contact me by email at carliayn.kell@dot.state.fl.us or by phone at 850-414-4597.

Sincerely,

Carliayn Kell
Professional Services Qualification Administrator

d. HDR Requested Billing Rate Update

EXHIBIT A

HDR Engineering, Inc.

Schedule of Rate Values

Beckett Bridge Replacement – Post Design Services

145-0317-NC (SS)

Job Classification	2024 Current Loaded Rate
Chief Designer	$ 255.00
Chief Engineer 2	$ 285.00
Engineer 1	$ 172.50
Engineering Intern	$ 141.00
Senior Engineering Technician	$ 121.50
Senior Accountant	$ 135.00
Senior Engineer 1	$ 265.50

e. Tierra Requested Billing Rate Update

TIERRA

July 18, 2024

Hardesty & Hanover, LLC
5110 Eisenhower Boulevard
Suite 310
Tampa, Florida 33634

Attn: Mr. Jim Phillips, P.E.

RE: Schedule of Rate Values
Beckett Bridge Replacement Post-Design Services
Pinellas County (PID 001037A)
Tierra Project No.: 6511-15-153

Mr. Phillips:

Thank you for the opportunity to provide Post-Design Services for the Beckett Bridge Replacement project.

Please find attached Tierra's Schedule of Rate Values to be used on this contract. The attached was prepared in general accordance with Tierra's latest approved FDOT Audit information.

We trust that this will meet your needs for the Schedule of Rates Values required by Pinellas County. Thank you once again for the opportunity to be part of your team.

Please let us know if you have any questions or need further information.

Sincerely,

TIERRA, INC.

Larry Moore, P.E.
Principal Geotechnical Engineer

7351 Temple Terrace Highway • Tampa, Florida 33637
Phone (813) 989-1354 • Fax (813) 989-1355
Florida Certificate No.: 6486

ENGINEERING AND TECHNICAL SERVICES

				Proposed Loaded Rates	
	Chief Engineer 2	Hour		$236.14	
	Chief Scientist	Hour		$182.15	
	Engineer 1	Hour		$148.42	
	Engineer 2	Hour		$170.62	
	Engineering Intern	Hour		$118.54	
	Engineering Technician	Hour		$88.35	
	Principal Engineer	Hour		$251.96	
	Secretary/Clerical	Hour		$110.81	
	Senior Designer	Hour		$133.27	
	Senior Engineer 1	Hour		$217.43	
	Senior Engineering Technician	Hour		$112.73	
	Senior Scientist	Hour		$159.83	

Item Description	Unit	Unit Price
101-Aggregate Carbonates & Organic Matter FM 5-514	Test	$ 157.00
102-Aggregate Org. Impurities S& for Concrete AASHTO T21	Test	$ 85.00
103-Aggregate Shell Content of Coarse Aggregate FM 5-555	Test	$ 118.00
104-Aggregate Sieve Anlsys of Fine & Coarse AASHTO T27	Test	$ 90.00
105-Aggregate Soundness AASHTO T104	Test	$ 353.00
106-Aggregate Specific Gravity/Absorption Coarse AASHTO T85	Test	$ 110.00
107-Aggregate Total Moisture Content by Drying AASHTO T255	Test	$ 56.00
108-Aggregate Unit Mass & Voids AASHTO T19	Test	$ 59.00
109-Aggregate Specific Gravity/Absorption Fine AASHTO T84	Test	$ 131.00
200-Asphalt Bulk Specific Gravity FM 1-T166	Test	$ 68.00
201-Asphalt Content FM 5-563	Test	$ 159.00
204-Asphalt Gradation FM 1-T030	Test	$ 98.00
206-Asphalt Los Angeles (LA) Abrasion Coarse Agg FM 3-C535	Test	$ 408.00
207-Asphalt Los Angeles (LA) Abrasion Small Agg FM 1-T096	Test	$ 346.00
209-Asphalt Pavement Coring – 4” dia with Base Depth Check	Each	$ 258.00
210-Asphalt Pavement Coring – 4” dia without Base Depth Check	Each	$ 200.00
211-Asphalt Pavement Coring – 6” dia with Base Depth Check	Each	$ 292.00
212-Asphalt Pavement Coring – 6” dia without Base Depth Check	Each	$ 232.00
300-Concrete Beam Flexural Testing ASTM C78	Test	$ 63.00
301-Concrete Compressive Strength of Grout\Mortar ASTM C109	Test	$ 36.00
302-Concrete Cylinder Curing, Capping & Breaking ASTM C39	Test	$ 45.00
303-Concrete Drilled Cores & Sawed Beams ASTM C42	Test	$ 65.00
305-Concrete Pavement Coring - 4" Dia	Each	$ 239.00
306-Concrete Pavement Coring - 6" Dia	Each	$ 268.00
401-Geo Auger Borings- Hand & Truck/Mud Bug	LF	$ 12.00
402-Geo Auger Borings- Track	LF	$ 17.00
403-Geo Backhoe (Owned)	Day	$ 1,300.00
405-Geo Barge (Owned)	Day	$ 4,073.00
407-Geo Chainsaw (Owned)	Day	$ 119.00
415-Geo Double Ring Infiltration ASTM D3385	Each	$ 620.00
416-Geo Dozer (Owned)	Day	$ 1,700.00
418-Geo Drill Crew Support Vehicle	Day	$ 280.00
421-Geo Dynamic Pile Testing/Pile Driving Analyzer	Day	$ 600.00
422-Geo Extra SPT Samples-Barge/Track/Amphibious 000-050 Ft	Each	$ 110.00
423-Geo Extra SPT Samples-Barge/Track/Amphibious 050-100 Ft	Each	$ 110.00
424-Geo Extra SPT Samples-Barge/Track/Amphibious 100-150 Ft	Each	$ 125.00
425-Geo Extra SPT Samples-Barge/Track/Amphibious 150-200 Ft	Each	$ 125.00
427-Geo Extra SPT Samples-Truck/Mud Bug 000-050 Ft	Each	$ 110.00
428-Geo Extra SPT Samples-Truck/Mud Bug 050-100 Ft	Each	$ 110.00
429-Geo Extra SPT Samples-Truck/Mud Bug 100-150 Ft	Each	$ 125.00
430-Geo Extra SPT Samples-Truck/Mud Bug 150-200 Ft	Each	$ 125.00
432-Geo Field Permeability 0-10 Ft (Open - End Borehole Method)	Each	$ 379.00
434-Geo Ground Penetrating Radar (GPR)	Hour	$ 375.00

Item Description	Unit	Unit Price
435-Geo Grout Boreholes- Barge/Track/Amphibious 000-050 Ft	LF	$ 9.00
436-Geo Grout Boreholes- Barge/Track/Amphibious 050-100 Ft	LF	$ 12.00
437-Geo Grout Boreholes- Barge/Track/Amphibious 100-150 Ft	LF	$ 18.00
438-Geo Grout Boreholes- Barge/Track/Amphibious 150-200 Ft	LF	$ 26.00
440-Geo Grout Boreholes- Truck/Mud Bug 000-050 Ft	LF	$ 7.00
441-Geo Grout Boreholes- Truck/Mud Bug 050-100 Ft	LF	$ 8.00
442-Geo Grout Boreholes- Truck/Mud Bug 100-150 Ft	LF	$ 14.00
443-Geo Grout Boreholes- Truck/Mud Bug 150-200 Ft	LF	$ 19.00
445-Geo Grouted Monitor Well 2" 000-050 Ft	LF	$ 39.00
450-Geo Piezometer 2" 000-050 Ft	LF	$ 53.00
453-Geo Rock Coring Barge/Track/Amphibious 000-050 Ft less than 4" ID	LF	$ 63.00
455-Geo Rock Coring Barge/Track/Amphibious 050-100 Ft less than 4" ID	LF	$ 79.00
457-Geo Rock Coring Barge/Track/Amphibious 100-150 Ft less than 4" ID	LF	$ 86.00
459-Geo Rock Coring Barge/Track/Amphibious 150-200 Ft less than 4" ID	LF	$ 110.00
463-Geo Rock Coring Truck/Mud Bug 000-050 Ft less than 4" ID	LF	$ 49.00
465-Geo Rock Coring Truck/Mud Bug 050-100 Ft less than 4" ID	LF	$ 56.00
467-Geo Rock Coring Truck/Mud Bug 100-150 Ft less than 4" ID	LF	$ 64.00
473-Geo SPT Barge/Track/Amphibious 000-050 Ft	LF	$ 24.00
474-Geo SPT Barge/Track/Amphibious 050-100 Ft	LF	$ 33.00
475-Geo SPT Barge/Track/Amphibious 100-150 Ft	LF	$ 54.00
476-Geo SPT Barge/Track/Amphibious 150-200 Ft	LF	$ 71.00
478-Geo SPT Truck-Mud Bug 0-50 Ft	LF	$ 17.00
479-Geo SPT Truck-Mud Bug 50-100 Ft	LF	$ 20.00
480-Geo SPT Truck-Mud Bug 100-150 Ft	LF	$ 33.00
481-Geo SPT Truck-Mud Bug 150-200 Ft	LF	$ 44.00
483-Geo Temp Casing 3" Barge/Track/Amphibious 0-050 Ft	LF	$ 15.00
484-Geo Temp Casing 3" Barge/Track/Amphibious 50-100 Ft	LF	$ 18.00
485-Geo Temp Casing 3" Barge/Track/Amphibious 100-150 Ft	LF	$ 22.00
486-Geo Temp Casing 3" Barge/Track/Amphibious 150-200 Ft	LF	$ 28.00
488-Geo Temp Casing 3" Truck/Mud Bug 000-050 Ft	LF	$ 11.00
489-Geo Temp Casing 3" Truck/Mud Bug 050-100 Ft	LF	$ 15.00
490-Geo Temp Casing 3" Truck/Mud Bug 100-150 Ft	LF	$ 18.00
491-Geo Temp Casing 3" Truck/Mud Bug 150-200 Ft	LF	$ 23.00
514-Geo Truck/Mud Bug Mobil (30 miles straightline distance)	Each	$ 700.00
515-Geo Undisturbed Samples Barge/Track/Amphibious 000-050 Ft	Each	$ 231.00
516-Geo Undisturbed Samples Barge/Track/Amphibious 050-100 Ft	Each	$ 269.00
517-Geo Undisturbed Samples Barge/Track/Amphibious 100-150 Ft	Each	$ 310.00
518-Geo Undisturbed Samples Barge/Track/Amphibious 150-200 Ft	Each	$ 379.00
519-Geo Undisturbed Samples Truck/Mud Bug 000-050 Ft	Each	$ 210.00
520-Geo Undisturbed Samples Truck/Mud Bug 050-100 Ft	Each	$ 215.00
521-Geo Undisturbed Samples Truck/Mud Bug 100-150 Ft	Each	$ 241.00
522-Geo Undisturbed Samples Truck/Mud Bug 150-200 Ft	Each	$ 266.00
525-Geo Well Development	Hour	$ 192.00
531-Geo Truck/Mudbug Drill Rig and Crew (2-person)	Hour	$ 252.00
532-Geo Truck/Mudbug Drill Rig and Crew (3-person)	Hour	$ 320.00

Item Description	Unit	Unit Price
533-Geo Track/Barge Drill Rig and Crew (2-person)	Hour	$ 269.00
534-Geo Track/Barge Drill Rig and Crew (3-person)	Hour	$ 355.00
535-Geo Clearing Equip- Tractor, Bush Hog Attachment	Day	$ 1,523.00
536-Geo Clearing Equip-Skid Steer/ASV, ForestMulching Attach	Day	$ 2,195.00
537-Geo Clearing Equip-Skid Steer/ASV, Brush Cutter Attach	Day	$ 1,692.00
538-Geo Clearing Equipment	Day	$ 2,180.00
539-Geo Wash Boring for Rock Cores 0-50 Ft	LF	$ 13.00
540-Geo Wash Boring for Rock Cores 50-100 Ft	LF	$ 14.00
541-Geo Wash Boring for Rock Cores 100-150 Ft	LF	$ 23.00
542-Geo Wash Boring for Rock Cores 150-200 Ft	LF	$ 26.00
602-Mobilization-Vibration Monitoring Equipment	Each	$ 380.00
603-Mobilization Asphalt Coring Equipment	Each	$ 444.00
606-Mobilization Concrete Coring	Each	$ 434.00
608 Mobilization Drill Rig Amphibious	Each	$ 11,100.00
609-Geo Mobilization Drill Rig Barge Mount	Each	$ 11,125.00
610-Geo Mobilization Drill Rig Track Mount	Each	$ 3,250.00
612-Geo Mobilization Drill Rig Truck Mount	Each	$ 580.00
614-Geo Mobilization Mudbug/All Terrain Vehicle	Each	$ 1,170.00
618-Geo Mobilization Support Boat	Each	$ 625.00
619-Geo Mobilization Tri-Pod	Each	$ 1,658.00
620-Mobilization of Clearing Equipment	Each	$ 658.00
701-MOT Attenuator Truck	Hour	$ 271.00
702-MOT Channelizing Devices - Type I, II, VP, Drum (each)	Each	$ 5.00
706-MOT Portable Sign	Each	$ 50.00
708-MOT Provide Channelizing Devices - Cone	Each	$ 8.00
710-MOT Shadow Vhcle w/ Adv. Warning Arrow & Attenuator	Hour	$ 280.00
712-MOT Support Vehicle	Hour	$ 155.00
800-Soils Chloride Soil or Water (FM 5-552)	Test	$ 110.00
803-Soils Consolidation - Constant Strain (ASTM D4186)	Test	$ 595.00
804-Soils Consolidation - Extended Load Increments (AASHTO T216)	Day	$ 174.00
805-Soils Corrosion Series (FM 5-550 through 5-553)	Test	$ 305.00
806-Soils Direct Shear Consolidated Drained/ Point AASHTO T 236	Test	$ 391.00
810-Soils Limerock Bearing Ratio (LBR)(FM 5-515)	Test	$ 410.00
811-Soils Liquid Limit (AASHTO T 89)	Test	$ 66.00
812-Soils Materials Finer than 200 Sieve (FM 1-T011)	Test	$ 51.00
817-Soils Moisture Content Laboratory (AASHTO T 265)	Test	$ 19.00
819-Soils Organic Content Ignition (FM 1 T-267)	Test	$ 53.00
821-Soils Particle Size Analysis (AASHTO T 88) (Including Hydrometer)	Test	$ 200.00
822-Soils Particle Size Analysis (AASHTO T 88) (No Hydrometer)	Test	$ 84.00
823-Soils Permeability Constant Head (AASHTO T 215)	Test	$ 411.00
824-Soils Permeability Falling Head (FM 5-513)	Test	$ 341.00
825-Soils pH Soil or Water (FM 5-550)	Test	$ 49.00
826-Soils Plastic Limit & Plasticity Index (AASHTO T 90)	Test	$ 71.00
827-Soils Proctor Modified (FM 1-T 180)	Test	$ 143.00
828-Soils Proctor Standard (AASHTO T 99)	Test	$ 143.00
829-Soils Resistivity Soil or Water (FM 5-551)	Test	$ 65.00
832-Soils Splitting Tensile Strength of Rock Cores (ASTM D3967)	Test	$ 168.00
833-Soils Sulfate Soil or Water (FM 5-553)	Test	$ 71.00
838-Soils Unconfined Compression - Rock (ASTM D7012, Method C)	Test	$ 210.00

Item Description	Unit	Unit Price
Arsenic (Method 6010/7471)	Each	$ 9.00
Asbestos Samples	Each	$ 15.00
BTEX and MTBE (Method 8260)	Each	$ 65.00
Chlorinated Herbicides (Method 8151)	Each	$ 100.00
Drilling Permit Costs IE DEP	Each	$ 250.00
EDR Report	Each	$ 500.00
Field Sampling Kit (soil)	Each	$ 75.00
Field Sampling Survey Kit (water)	Each	$ 75.00
Flagman and Barricades 2-Man Crew Own Equipment	Day	$ 1,080.00
Handheld GPS	Per Day	$ 80.34
Mercury Individual (Method 6010/7471)	Each	$ 25.00
Organic Vapor Analyzer (OVA)	Day	$ 150.00
Organochlorine Pesticides (Method 8081)	Each	$ 100.00
Organophosphorous Pesticides (Method 8141)	Each	$ 125.00
Polyaromatic Hydrocarbons (Method 8270)	Each	$ 100.00
Polychlorinated Biphenals (8082)	Each	$ 75.00
Power Auger Boring (includes decontamination to a depth of 25 feet)	Foot	$ 11.90
RCRA 8 Metals (Method 6010/7471)	Each	$ 65.00
RCRA Metals Individual (Method 6010/7471)	Each	$ 9.00
Semi-Volatiles (Method 8270)	Each	$ 200.00
Site Clearing to Access Boring or Test Locations	Hour	$ 210.00
SPLP/TCLP Metals	Each	$ 198.00
TPH Method FL-Pro	Each	$ 65.00
Ultr Low Trace Mercury GW Individual (Method 1631)	Each	$ 75.00
Volatile Organics (Method 8260)	Each	$ 95.00
Volatile Organics BTEX/MTBE(Method 8260)	Each	$ 60.00

f. Touchstone Requested Billing Rage Update

TOUCHSTONE
ARCHITECTURE

Date: 12/19/2024

Note: Touchstone requested billing rates are shown on page 2 of this proposal for post design services.

To: Jim Phillips III, PE - Principal
Hardesty & Hanover
5110 Eisenhower Blvd., Suite 310
Tampa, FL 33634

Re: Beckett Bridge Progress Report
(Bridge No. 154000) – Architectural Services During Construction

Dear Mr. Phillips,

The following is a summary of the proposed scope and fee associated with Architectural support for Beckett Bridge during construction:

Scope

Task AR1 – Document Review and Revisions:

- Review construction documents and revised based on comments received from the Owner and Engineer of Record
- Re-Submit final Signed and Sealed Drawings

Task AR2 – RFI Responses:

- Provide responses to Requests for Information (RFI's) from the Contractor during bidding and Construction

Task AR3 – Submittals and Shop Drawing Review:

- Review submittals and shop drawings related to architectural elements for the project during construction.

Task AR4 – Site Visits:

- Attend two site visits during the construction phase of work.

Task AR5 – Administration:

- Administration tasks in association with execution of the work.

Hourly Estimate for Architectural Tasks	
Task AR1 – Document Review and Revisions	35
Task AR2 – RFI Responses	60
Task AR3 – Submittals and Shop Drawing Review	100
Task AR4 – Site Visits	96
Task AR5 – Administration	30
Total Hours	321

482 W. Harborview Road, Santa Rose Beach, Florida, 32459
Ph. 850.545.5227
FL License # AR0015801

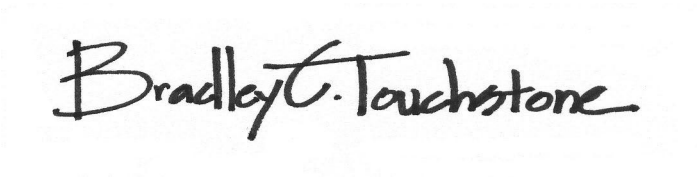
TOUCHSTONE
ARCHITECTURE

This work will be performed on an hourly basis at an hourly rate of $235.00/ hour.

Proposed Billing Rate

Do not hesitate to call if you have any questions and thank you for this opportunity.

Sincerely,



Bradley C. Touchstone, FAIA
President
Touchstone Architecture

482 W. Harborview Road, Santa Rose Beach, Florida, 32459
Ph. 850.545.5227
FL License # AR0015801

Attachment B - Design Update Fee Summary

5110 Eisenhower Blvd, Suite 310
Tampa, FL 33634
T: 813.749.0823

February 20, 2025

Ann Venables, AICP, ENV SP
Senior Project Manager
Capital Improvements Division
Pinellas County Public Works
14 S Ft. Harrison Ave., 5th Floor, Clearwater, FL 33756

Re: 001037A Beckett Bridge Replacement
Request for Supplement; Design Update for LAP Funding

Dear Ann,

H&H respectfully requests a supplement to the project limiting amount for the additional services the County has requested to update the design and design documentation in accordance with FDOT review comments to qualify for LAP funding.

Design was completed in July of 2021 and put on hold while temporary construction easements and sovereign submerged lands easements were being processed. The construction documents (calculations, plans, specifications, and estimates) were completed for the Beckett Bridge Replacement Project in April of 2023.

In late 2024 the County began the process of obtaining federal funding for construction through the Local Agency Participation (LAP) program. This required an additional review of the documents by FDOT resulting in requests to update the plans to current FDOT design criteria and production standards. H&H respectfully requests a supplement to review the FDOT's comments and update the design calculations, plans, pay items and cost estimates. The requested supplement is detailed in the attachment to this letter.

Respectfully,

James M. Phillips III, PE
Principal / Project Manager

Attachments: Request for Supplement/Fee Proposal

REQUEST FOR SUPPLEMENT
ADDITIONAL SERVICES
FOR LAP FUNDING DESIGN UPDATE

ENGINEERING CONSULTING SERVICES
Contract No. 145-0317-NC (SS)

Professional Engineering Services for Beckett Bridge Replacement

County PID: 001037A

Prepared for:

Pinellas County
Public Works Transportation Engineering Section
14 S. Fort Harrison Avenue
Clearwater, FL 33756

Prepared by:

Hardesty &Hanover, LLC
5110 Eisenhower Blvd., Suite 310
Tampa, FL 33634
February 20, 2025

TABLE OF CONTENTS

B. H&H Proposed Fee for Design Update for FDOT Compliance to qualify for LAP Funding

Design was completed in July of 2021 and put on hold while temporary construction easements and sovereign submerged lands easements were being processed. The construction documents (calculations, plans, specifications, and estimates) were completed for the Beckett Bridge Replacement Project in April of 2023.

In late 2024 the County began the process of obtaining federal funding for construction through the Local Agency Participation (LAP) program. This required an additional review of the documents by FDOT resulting in requests to update the plans to current FDOT design criteria and production standards. H&H respectfully requests a supplement to review the FDOT's comments and update the design calculations, plans, pay items and cost estimates. The requested supplemental fees are detailed in the following sections.

a. Design Update Fee Summary

   Note: Billing rates shown are based on those proposed in the February 20, 2025, request for updated billing rates.

001037A Beckett Bridge Replacement **Date:** **2/20/2025**
Post Design Services **Prepared By:** **JMP**
Design Update for FDOT Compliance/Review

Additional Services for FDOT Review and Plans Update - Firm and Overall Totals			
Consultant Firm	**Staff Hours**	**Estimated Fee**	**Notes**
H&H	1115	$ 220,005.28	See Detail Below
HDR	76	$ 20,451.00	See Detail Below
Tierra	28	$ 7,607.52	See Detail Below
Touchstone	32	$ 9,400.00	See Detail Below
Total Estiamted Fee		**$ 257,463.80**	

Estimate of H&H Staff Hours & Fee												
Billing Classification	**Project Manager**	**Chief Engineer 2**	**Chief Engineer 1**	**Senior Engineer 2**	**Senior Engineer 1**	**Engineer 2**	**Engineer 1**	**Engineer in Training**	**Senior Technician**	**Clerical**	**Task Totals**	
TASK / Billing Rate	$ 350.00	$ 281.75	$ 240.45	$ 238.37	$ 213.02	$ 148.77	$ 143.43	$ 115.25	$ 121.74	$ 90.07	Total Hours	Est. Fee
Respond to ERC Comments	24		6	16	84		30				160	$ 35,853.20
Design (Calculation) Updates	13	16	24	40	64	64	64	40	16		341	$ 63,255.52
Plans Updates	13	16	20	20	64	64	64	60	16		337	$ 59,831.32
Specifications Updates	7	13	13		20	20				4	77	$ 16,834.68
Pay Item and Cost Estimate Update	4			12	12	16	16				60	$ 11,491.88
Coordination/Supervision/QA/QC	12	20	20	24	20	8					104	$ 25,815.44
Assembly/Sign & Seal Update	4		4	4	4		16	4			36	$ 6,923.24
Class Hour Totals	77	65	87	116	268	172	190	104	32	4	1115	**$ 220,005.28**
Class Hour Est. Fee	$ 26,950.00	$ 18,313.75	$ 20,919.15	$ 27,650.92	$ 57,089.36	$ 25,588.44	$ 27,251.70	$ 11,986.00	$ 3,895.68	$ 360.28		

Estimate of HDR Staff Hours & Fee												
Billing Classification	**Chief Designer**	**Chief Eng. 2**	**Sr. Eng. 1**	**Engineer 1**	**Engineer Intern**	**Sr. Eng. Tech.**	**Sr. Accountant**				**Task Totals**	
TASK / Billing Rate	$ 255.00	$ 285.00	$ 265.50	$ 172.50	$ 141.00	$ 121.50	$ 135.00				Total Hours	Est. Fee
Respond to ERC Comments	2		8	4							14	$ 3,324.00
Design (Calculation) Updates	2	4	8	12	4						30	$ 6,408.00
Plans Updates	2	4	4	4	12	8					34	$ 6,066.00
Specifications Updates											0	$ -
Pay Item and Cost Estimate Update				2	4	2					8	$ 1,152.00
Coordination/Supervision/QA/QC	2		4				2				8	$ 1,842.00
Assembly/Sign & Seal Update			2		8						10	$ 1,659.00
Class Hour Totals	8	8	26	22	28	10	2	0	0	0	104	**$ 20,451.00**
Class Hour Est. Fee	$ 2,040.00	$ 2,280.00	$ 6,903.00	$ 3,795.00	$ 3,948.00	$ 1,215.00	$ 270.00	$ -	$ -	$ -		

001037A Beckett Bridge Replacement **Date:** **2/20/2025**
Post Design Services **Prepared By:** **JMP**
Design Update for FDOT Compliance/Review

Estimate of Tierra Staff Hours & Fee												
Billing Classification	**Principal Engineer**	**Chief Eng. 2**	**Chief Scientist**	**Sr. Eng. 1**	**Engineer 2**	**Engineer 1**	**Engineer Intern**	**Eng. Tech.**	**Secretary/ Clerical**	**Sr. Designer**	**Task Totals**	
TASK / Billing Rate	$ 251.96	$ 236.15	$ 182.15	$ 217.43	$ 170.62	$ 148.42	$ 118.54	$ 88.35	$ 110.81	$ 133.27	Total Hours	Est. Fee
Respond to ERC Comments	2			4		2					8	$ 1,670.48
Design (Calculation) Updates	2			2		8					12	$ 2,126.14
Plans Updates				2		4				4	10	$ 1,561.62
Specifications Updates											0	$ -
Pay Item and Cost Estimate Update											0	$ -
Coordination/Supervision/QA/QC	2	4									6	$ 1,448.52
Assembly/Sign & Seal Update	2					2					4	$ 800.76
Class Hour Totals	8	4	0	8	0	16	0	0	0	4	40	**$ 7,607.52**
Class Hour Est. Fee	$ 2,015.68	$ 944.60	$ -	$ 1,739.44	$ -	$ 2,374.72	$ -	$ -	$ -	$ 533.08		

Estimate of Touchstone Staff Hours & Fee												
Billing Classification	**Principal Architect**										**Task Totals**	
TASK / Billing Rate	$ 235.00										Total Hours	Est. Fee
Respond to ERC Comments											0	$ -
Design (Calculation) Updates											0	$ -
Plans Updates	16										16	$ 3,760.00
Specifications Updates	16										16	$ 3,760.00
Pay Item and Cost Estimate Update	4										4	$ 940.00
Coordination/Supervision/QA/QC											0	$ -
Assembly/Sign & Seal Update	4										4	$ 940.00
Class Hour Totals	40	0	0	0	0	0	0	0	0	0	40	**$ 9,400.00**
Class Hour Est. Fee	$ 9,400.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		

Computations For:
Beckett Bridge Replacement

Made By JPN **Date** 1/8/2025
Checked By JMP **Date** 2/20/2025

HARDESTY & HANOVER, LLC.
E N G I N E E R I N G
Job No. 3231.00

2025 BECKETT PLANS UPDATE - STAFF HOUR ESTIMATE

SUMMARY

STRUCTURES - TECHNICAL TASKS AND DRAWINGS

TASK NO.	REF.	TASK DESCRIPTION	UNIT	NO. OF UNITS	HOURS/ UNIT	NO. OF SHEETS	TOTAL HOURS
1	Review ERC Comments		LS	1	160	NA	160
2	See backup	Plans Updates	SHEET	-	-	355	337
3	See backup	Design Updates	LS	-	-	-	341
4	See backup	Specifications Updates	LS	-	-	-	77
						STRUCTURES TECHNICAL SUBTOTAL =	**915**

STRUCTURES - MISCELLANEOUS TASKS

TASK NO.	REF.	TASK DESCRIPTION	UNIT	NO. OF UNITS	HOURS/ UNIT	NO. OF SHEETS	TOTAL HOURS
5		QC	LS	%	6%	-	55
6		Supervision	LS	%	3%	-	27
7		Coordination: a. Roadway [4 Hours] b. Architect [2 Hours] c. Structures -- App. Span Superst (HDR) [4 Hours] d. Geotech [4 Hours] e. Bridge Hydraulics [2 Hours] f. Coordination Meetings [3 with subs, 3 with County][6 Hours]	LS	1	22	-	22
8		Pay Item and Cost Estimate Update	LS	1	60	-	60
9		Plan & Spec Assembly, Sign & Seal (Structures/Roadway)	LS	1	36	-	36
						SUBTOTAL MISC. TASKS SUBTOTAL =	**200**

STRUCTURES STAFF HOURS TOTAL = **1115**

b. Design Update Staff-hour Estimates

2025 BECKETT PLANS UPDATE - STAFF HOUR ESTIMATE

1. PLANS UPDATES

TASK NO.	REF.	TASK DESCRIPTION	UNIT	NO. OF UNITS	HOURS/ UNIT	NO. OF SHEETS	TOTAL HOURS
1.01	G-1	Update Key Sheet to conform to FDM 910.	SHEET	1	4.00	1	**4**
1.02	G-2 thru G-4 (Signature Sheets)	a. Re-sign plans using digital delivery for 7 EOR's and 1 AOR. b. Ensure that no logos are present on digital signaures. c. Update HDR EOR.	SHEET	3	2.67	3	**8**
1.03	G-5 thru G-6 (Index of Bridge Sheets)	a. Update Index of Bridge Sheets based on any changes to number of drawings, including additional of new drawings or removal of existing drawings. b. Coordinate changes to sheet numbers with sub-consultants (if needed).	SHEET	2	2.00	2	**4**
1.04	G-7 thru G-8 (Summary of Structures Quantities)	Update structures quantities based on any design changes.	SHEET	2	4.00	2	**8**
1.05	G-9 thru G-11 (General Notes)	a. Update general notes based on 2025 FDOT Structures Manual. Refer to SDM 5.2 for current "typical general notes", and SDM 5.3 for current "typical steel general notes". b. Update design criteria and governing standards & construction specifications (as shown on GN-A and GN-B), and update any references to standard plans index numbers or construction specifications sections. c. Verify and update pay item notes based on FDOT comments regarding pay item numbers. d. Address WSP comments from pay item notes.	SHEET	3	5.00	3	**15**
1.06	G-12 (Surface Finish Details)	Assume no changes to surface finish details that depict locations of Class 5 Surface Finish.	SHEET	1	0.00	1	**0**
1.07	G-13 thru G-14 (GP&E)	a. Address WSP comments regarding submarine cable linework and inclusion of a direction of stationing arrow on plan view. b. Update plan and elevation view to incorporate all items required on SDM 7.2 thru 7.4.	SHEET	2	2.00	2	**4**
1.08	G-15 (Bridge Hydraulics)	No major updates to BHR sheet.	SHEET	1	0.00	1	**0**
1.09	G-16 thru G-25 (Geotech Core Boring Sheets)	Coordinate inclusion of corrected sheets by Tierra. They received a FDOT comment to add digital delivery notes to their sheets.	SHEET	10	0.20	10	**2**
1.1	G-26 (Construction Notes)	No changes.	SHEET	1	0.00	1	**0**

2025 BECKETT PLANS UPDATE - STAFF HOUR ESTIMATE

1. PLANS UPDATES

1.11	G-27 (Removal of Existing Structures)	Adress FDOT comment to include additional general note regarding archeological monitor.	SHEET	1	0.50	1	**0.5**
1.12	G-28 thru G-31 (Traffic Railing T2P/C221 Details)	a. Address WSP comments regarding new note for shop drawing submittal requirements. b. Verify/update standard plans and construction specifications references.	SHEET	4	0.50	4	**2**
1.13	G-32 thru G-33 (Pier Protection System)	Verify/update standard plans and construction specifications references.	SHEET	2	1.00	2	**2**
1.14	G-34 (General Sheets Bar List)	No changes.	SHEET	1	0.00	1	**0**
1.15	B-1 (Foundation Layout)	a. Update foundation layout to incorporate all items required on SDM 11.2 thru 11.3. i. Show pile/shaft numbers [SDM 11.2.M]. ii. Show proposed sheet piles for bulkhead/retaining walls [SDM 11.2.Q]. b. FDOT comment: Show existing piles from crutch bents (see repair plans)	SHEET	1	4.00	1	**4**
1.16	B-2 (Drilled Shaft Data Table and Notes)	Coordinate any updates to the drilled shaft notes with Tierra [SDG 3.6.8].	SHEET	1	2.00	1	**2**
1.17	B-3 (Drilled Shaft Details)	a. Show clear cover to drilled shaft longitudinal rebar. b. Address minor FDOT comments regarding notes.	SHEET	1	2.00	1	**2**
1.18	B-4 (Pipe Pile Data Table, Details, and Notes)	a. Update pipe pile details to show full height reinforced concrete infill with closed ends [SDG Table 3.1-1, SDG 3.1.G.2, SDG 3.1.H, and SDM Fig. 11.6.3-1]. b. Update pile installation notes per FDOT comments and SDG 3.5.16, and coordinate updates with Tierra. c. Move pile details to a new sheet to allow for additional details and notes for closed-ended pipe piles.	SHEET	1	8.00	1	**8**
1.19	B-5 thru B-8 (App. Slab Plan & Details)	Add expanded polystyrene details for approach slab sections at sheet piling (FDOT Comment #29).	SHEET	4	1.00	4	**4**
1.20	B-9 (App. Slab Bar List)	No changes.	SHEET	1	0.00	1	**0**

2025 BECKETT PLANS UPDATE - STAFF HOUR ESTIMATE

1. PLANS UPDATES

1.21	B-10 thru B-11 (Abutments 1 & 7 Plan & Elev.)	a. Add notes regarding treatment of sheet pile interface below bottom of Abutment 7 cap. b. Show ducts in precast cap for drilled shaft longitudinal rebar on plan and elevation views. c. Include notes regarding addition of as-built duct locations on precast bent cap shop drawings.	SHEET	2	1.00	2	**2**
1.22	B-12 thru B-16 (Abutment Details)	Show ducts in precast cap for drilled shaft longitudinal rebar on applicable details, views, and sections.	SHEET	5	0.40	5	**2**
1.23	B-17 thru B-30 (Int. Piers 2 & 6 and Rest Pier 4 - Plan & Elevation, and Details)	a. Show ducts in precast cap for drilled shaft longitudinal rebar on applicable details, views, and sections. b. Include notes regarding addition of as-built duct locations on precast bent cap shop drawings.	SHEET	14	0.50	14	**7**
1.24	B-31 thru B-35 (App. Subst. Bar Lists)	No changes.	SHEET	5	0.00	5	**0**
1.25	"S" sheets (App. Superst. Sheets - HDR)	Coordinate updates to approach span superstructure sheets with HDR, including revisions to the 2025 FDOT Structures Manual.	SHEET	26	0.31	26	**8**
1.26	S-25 thru S-26 (App. Span Armored Joint Details)	No changes.	SHEET	2	0.00	2	**0**
1.27	BP-1 thru BP-37 (Bascule Pier Sheets)	a. Update code references and specifications sections as needed. b. Address minor FDOT comments.	SHEET	37	0.20	37	**7**
1.28	BP-38 thru BP-42 (BP Reinf. Sheets)	No changes.	SHEET	5	0.00	5	**0**
1.29	TH-1 (Operation and Overlook Areas Notes)	a. Update building code criteria (FBC, ASCE-7, ACI-318) and verify design loads (i.e. wind loads). b. Verify wind pressure diagrams per latest ASCE-7 provisions. c. Verify canopy tie rod design loads after updates to building code criteria.	SHEET	1	4.00	1	**4**
1.30	TH-2 thru TH-5 (Bridge Plumbing Details)	No changes.	SHEET	4	0.00	4	**0**
1.31	TH-6 thru TH-7 (Historical Monument)	No changes.	SHEET	2	0.00	2	**0**

2025 BECKETT PLANS UPDATE - STAFF HOUR ESTIMATE

1. PLANS UPDATES

1.32	"A" Sheets (Architectural)	a. Architect (Touchstone) to update building code criteria (FBC) and verify design criteria for architectural elements on bascule pier. b. Coordinate with architect and update all revised sheets into the plans PDF.	SHEET	18	0.20	18	**4**
1.33	BL-1 thru BL-35 (Bascule Span Structural)	a. Address minor FDOT comments. b. Update structural steel bolted field splice details per AASHTO LRFD 9th Edition and SDG Appx. 5A (previously designed per AASHTO LRFD 7th Edition). c. Verify details after calculation updates to 2025 Structures Manual and AASHTO 9th.	SHEET	35	0.80	35	**28**
1.34	M-1 thru M-33 (Mechanical)	a. Address FDOT comments. b. Update details per AASHTO LRFD 9th Edition and SDG. c. Verify details after updating calculations.	SHEET	33	0.75	33	**25**
1.35	E-1 thru E-46 (Electrical)	Address FDOT comments.	SHEET	46	0.70	46	**32**
1.36	W-1 thru W-9 (Retaining Wall Sheets)	Address FDOT comments	SHEET	9	1.00	9	**9**
1.37	W-10 (Retaining Wall Bar List)	No changes.	SHEET	1	0.00	1	**0**
1.38	Standard Plans PDF	1. Update Standard Plans at end of plans set. 2. Revise Index of Drawings accordingly, if necessary.	SHEET	22	0.20	22	**4**
1.39	Riverside Civil Plans	Update plans to address ERC comments (15 of 35 sheets affected)	SHEET	15	3.00	15	**45**
1.40	Beckett Civil Plans	Update plans to address ERC comments (30 of 55 sheets affected)	SHEET	30	3.00	30	**90**
					SUM =	**355**	**337**

2025 BECKETT PLANS UPDATE - STAFF HOUR ESTIMATE

2. DESIGN UPDATES

TASK NO.	REF.	TASK DESCRIPTION	UNIT	NO. OF UNITS	HOURS/ UNIT	NO. OF SHEETS	TOTAL HOURS
2.01	Quantity Backup	Update structures quantities based on any design changes and reprint calculations PDF.	LS	1	40	-	**40**
2.02	Struct. Calcs Vol. 1 - Geometry	Bascule span deck elevations, and substructure elevations. [No changes.]	LS	1	0	-	**0**
2.03	Struct. Calcs Vol. 2 - Foundations	a. General: Update design criteria and corresponding references to conform to 2025 Structures Manual and reprint calculations PDF (e.g. AASHTO reference section numbers are different for concrete). [6 calc sections @ 3 hours/section = 18 hours] b. Update drilled shaft and pile data tables. [4 hours] e. Rest Pier 4 and Intermediate Pier 5: Revise calculations so that internal reinforced concrete infill is fully redundant without any contribution from the steel pipe (SDG 3.1.G.2). [12 hours] f. Include Intermediate Pier 6 with Pier 2 drilled shaft analysis. [4 hours]	LS	1	38	-	**38**
2.04	Struct. Calcs Vol. 3 - App. Substructure	General: Update design criteria and corresponding references to conform to 2025 Structures Manual and reprint calculations PDF (e.g. AASHTO reference section numbers are different for concrete). [4 calc sections @ 3 hours/section = 12 hours]	LS	1	12	-	**12**
2.05	Struct. Calcs Vol. 4 - Bascule Pier	General: Update design criteria and corresponding references to conform to 2025 Structures Manual and reprint calculations PDF (e.g. AASHTO reference section numbers are different for concrete). [11 calc sections @ 3 hours/section = 33 hours]	LS	1	33	-	**33**
2.06	Struct. Calcs Vol. 5 - Bascule Leaf	a. General: Update design criteria and corresponding references to conform to 2025 Structures Manual and reprint calculations PDF. [14 design calc sections @ 3 hours/section = 42 hours] b. Main Girder: Update bolted field splice design calculations. This section was re-written between AASHTO 8th and 9th. [12 hours]	LS	1	56	-	**56**
2.07	Struct. Calcs Vol. 6 - Retaining Walls	General: Update design criteria and corresponding references to conform to 2025 Structures Manual and reprint calculations PDF. [4 design calc sections @ 3 hours/section = 12 hours]	LS	1	12	-	**12**

2025 BECKETT PLANS UPDATE - STAFF HOUR ESTIMATE

2.08	Struct. Calcs Vol. 7 - Bascule Span Load Rating	a. General: Update design criteria and corresponding references to conform to 2025 Structures Manual and 2023 Load Rating Manual, and reprint calculations PDF. [6 design calc sections @ 3 hours/section = 18 hours] b. Create updated FDOT load rating summary form (spreadsheet) that includes governing load rating factor for the approach spans (HDR) and bascule span (H&H). [4 hours]	LS	1	22	-	**22**
2.09	Calcs Vol. 8 - Mechanical	Update calculations to conform to latest AASHTO and FDOT Design Manual.	LS	1	40	-	**40**
2.10	Calcs Vol. 9 - Electrical	Update calculations to conform to latest AASHTO and NEC requirements and reprint calculations PDF.	LS	1	8	-	**8**
2.11	Riverside Rdwy Calcs	Update design document package to address ERC comments	LS	1	40		**40**
2.12	Beckett Rdwy Calcs	Update design document package to address ERC comments	LS	1	40		**40**
						SUM =	**341**

2025 BECKETT PLANS UPDATE - STAFF HOUR ESTIMATE

3. SPECIFICATIONS UPDATES

TASK NO.	REF.	TASK DESCRIPTION	UNIT	NO. OF UNITS	HOURS/ UNIT	NO. OF SHEETS	TOTAL HOURS
2.01	Specs Package	Update specifications package to current fiscal year (FY 2025-26).	LS	1	16	-	**16**
2.02	TSP T-404 (Precast Bent Cap Const.)	General: Verify and update standard specifications section references, standard plans index numbers, and other FDOT design criteria. [structural TSP; 14 pages]	LS	1	4	-	**4**
2.03	TSP T-430 (Drainage Inline Check Valve)	General: Verify and update standard specifications section references, standard plans index numbers, and other FDOT design criteria. [drainage TSP; 4 pages]	LS	1	2	-	**2**
2.04	TSP T-465 (Movable Bridges)	General: Verify and update standard specifications section references, standard plans index numbers, and other FDOT design criteria. [structural/mechanical/electrical TSP; 48 pages]	LS	1	12	-	**12**
2.05	TSP T-468 (Machinery Const.)	General: Verify and update standard specifications section references, standard plans index numbers, and other FDOT design criteria. [mechanical TSP; 54 pages]	LS	1	12	-	**12**
2.06	TSP T-505 (Exodermic Deck)	General: Verify and update standard specifications section references, standard plans index numbers, and other FDOT design criteria. [structural TSP; 5 pages]	LS	1	4	-	**4**
2.07	TSP T-508 (Electrical Const.)	General: Verify and update standard specifications section references, standard plans index numbers, and other FDOT design criteria. [electrical TSP; 60 pages]	LS	1	12	-	**12**
2.08	TSP T-512 (Control House Architectural)	General: Verify and update standard specifications section references, standard plans index numbers, and other FDOT design criteria. [structural/architectural TSP; 60 pages]	LS	1	12	-	**12**
2.09	TSP T-564 (Metalized Structural Steel)	General: Verify and update standard specifications section references, standard plans index numbers, and other FDOT design criteria. [structural TSP; 8 pages]	LS	1	3	-	**3**
						SUM =	**77**

Attachment C - Post Design Services Fee Summary

5110 Eisenhower Blvd, Suite 310
Tampa, FL 33634
T: 813.749.0823

February 20, 2025

Ann Venables, AICP, ENV SP
Senior Project Manager
Capital Improvements Division
Pinellas County Public Works
14 S Ft. Harrison Ave., 5th Floor, Clearwater, FL 33756

Re: 001037A Beckett Bridge Replacement
Request for Supplement for Post Design Services

Dear Ann,

H&H respectfully requests a supplement to the project limiting amount for post design services. This request has two components:

1. Adjust the limiting amounts established for Post Design Services and Bid Phase Services to reflect the newly proposed billing rates, and
2. Add limiting amounts for subconsultants HDR, Tierra, and Touchstone Architecture to cover their anticipated efforts during the construction stage.

At the time the project was initially negotiated in 2016, the details of design were not yet developed. However, an estimate of post design services was developed to establish a preliminary limiting amount (cost plus) budget. This budget did not include details for scope of subconsultants as their design details had not yet been developed. The H&H limiting amounts negotiated in 2016 for Post Design Services and Bid Phase Services were based on billing rates established at the start of negotiations in 2015. H&H has prepared a request to update the billing rates and submitted that concurrently with this request.

H&H respectfully requests supplemental fees as detailed in the following sections to increase the H&H limiting amounts for Post Design Services and Bid Phase Services and to provide for limiting amount budgets for the subconsultants during the construction phase.

Respectfully,

James M. Phillips III, PE
Principal / Project Manager

Attachments: Request for Updated Post Design (Construction Phase) Fee

REQUEST FOR UPDATED
POST DESIGN (CONSTRUCTION PHASE) FEE

ENGINEERING CONSULTING SERVICES
Contract No. 145-0317-NC (SS)

Professional Engineering Services for Beckett Bridge Replacement

County PID: 001037A

Prepared for:

Pinellas County
Public Works Transportation Engineering Section
14 S. Fort Harrison Avenue
Clearwater, FL 33756

Prepared by:

Hardesty &Hanover, LLC
5110 Eisenhower Blvd., Suite 310
Tampa, FL 33634
January 29, 2025

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A. Post Design Additional Services

At the time the project was initially negotiated in 2016 the details of design were not yet developed. However, an estimate of post design services was developed to establish a preliminary limiting amount budget. This budget did not include details for scope of subconsultants as their design details had not yet been developed. The H&H limiting amounts negotiated in 2016 for Post Design Services and Bid Phase Services were based on billing rates established at the start of negotiations in 2015. H&H has prepared a request to update the billing rates and submitted that concurrently with this request.

This request has two components:

1. Adjust the limiting amounts established for Post Design Services and Bid Phase Services to reflect the newly proposed billing rates, and
2. Add limiting amounts for subconsultants HDR, Tierra, and Touchstone Architecture to cover their anticipated efforts during the construction stage.

H&H respectfully requests supplemental fees as detailed in the following sections to increase the H&H limiting amounts for Post Design Services and Bid Phase Services and to provide for limiting amount budgets for the subconsultants during the construction phase.

a. H&H Updated Post Design Fee Proposal

For reference the original negotiations established the following limiting amounts (hourly basis) for H&H:

Task 11. Post Design Services:	$223,871.00	1616 staffhours
Task 12. Bid Phase Services:	$ 10,381.00	56 staffhours

001037A Beckett Bridge Replacement **Date:** **2/20/2025**
Post Design Services **Prepared By:** **JMP**
Proposed Updated Limiting Amounts

The table below summarizes the original contract limiting amounts for Tasks 11 and 12, the proposed new values, and the difference

Update of Post Design and Bid Phase Services to Adjusted Billing Rates					
H&H Contract Task	**Staff Hours***	**Original Contract Limiting Amount**	**Proposed Updated Contract Limiting Amount (Revised Total)**	**Proposed Supplement to Contract Limiting Amount**	**Notes**
11. Post Design Services (CP)**	1616	$ 223,871.00	$ 330,397.12	$ 106,526.12	See Detail Below
12. Bid Phase Services (CP)**	56	$ 10,381.00	$ 14,309.84	$ 3,928.84	See Detail Below
Total Estiamted Fee		**$ 234,252.00**	**$ 344,706.96**	**$ 110,454.96**	

* Staffhours are from original proposal

** Cost Plus (CP)(aka Limiting Amount)

The table below applies the proposed new billing rates to the original staffhours for Tasks 11 and 12 to estimate and updated limiting amount

H&H HOURS / COST BY EMPLOYEE CLASSIFICATION***											
	Project Manager	**Chief Engineer 2**	**Chief Engineer 1**	**Senior Engineer 2**	**Senior Engineer 1**	**Engineer 2**	**Engineer 1**	**Engineer in Training**	**Clerical**	**Total Staffhours**	**Updated Fee by Task**
Task / Billing Rate	$ 350.00	$ 281.75	$ 240.45	$ 238.37	$ 213.02	$ 148.77	$ 143.43	$ 115.25	$ 90.07		
11. Post Design Services (CP)	96	64	156	312	376	312	220	64	16	1616	**$ 330,397.12**
12. Bid Phase Services (CP)	11	11	22	3	3	3	0	0	3	56	**$ 14,309.84**
Hours by Classification	107	75	178	315	379	315	220	64	19	1672	
Estimated Fee by Classification	$ 37,450.00	$ 21,131.25	$ 42,800.10	$ 75,086.55	$ 80,734.58	$ 46,862.55	$ 31,554.60	$ 7,376.00	$ 1,711.33		

*** Hours for Tasks 11 and 12 are identical to those in the original contract, only the rates have been adjusted

B. Subconsultant Post Design Fee Proposals

001037A Beckett Bridge Replacement **Date:** **2/20/2025**
Post Design Services **Prepared By:** **JMP**
Proposed Updated Limiting Amounts

The table below summarizes the proposed subconsultant limiting amounts for post design services

Additional Post Design Serivces Limiting Amounts for Subconsultants			
Consultant Firm	**Staff Hours**	**Estimated Fee**	**Notes**
HDR	106	$ 20,262.00	See Attached Detail
Tierra	300	$ 61,949.70	See Attached Detail
Touchstone	321	$ 75,435.00	See Attached Detail
Total Estiamted Fee		**$ 157,646.70**	

a. HDR Post Design Fee Proposal

EXHIBIT B - ESTIMATE OF WORK EFFORT AND COST
Post Design Services

Name of Project:	Beckett Bridge Replacement	Consultant Name:	HDR Engineering, Inc.
County:	Pinellas	Consultant No.:	enter consultants proj. number
PO No.	TBD	Date:	9/13/2024
Contract No.:	145-0317-NC (SS)	Estimator:	Jos van Dijk

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Chief Engineer 2	Senior Engineer 1	Chief Designer	Engineer 1	Engineering Intern	Senior Engineering Technician	Senior Accountant	Staff Classi-fication 8	Staff Classi-fication 9	Staff Classi-fication 10	Staff Classi-fication 11	Staff Classi-fication 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		$285.00	$265.50	$255.00	$172.50	$141.00	$121.50	$135.00	$0.00	$0.00	$0.00	$0.00	$0.00			
Post Design																
Response to Requests for Information	48	4	5	7	15	10	5	2	0	0	0	0	0	48	$9,128	$190.16
Response to Submittals and Shop Drawings	58	5	6	9	19	10	6	3	0	0	0	0	0	58	$11,135	$191.97
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Total Staff Hours	106	9	11	16	34	20	11	5	0	0	0	0	0	106	$20,262.00	
Total Staff Cost		$2,565.00	$2,920.50	$4,080.00	$5,865.00	$2,820.00	$1,336.50	$675.00	$0.00	$0.00	$0.00	$0.00	$0.00		**$20,262.00**	**$191.15**

Check = $20,262.00

SALARY RELATED COSTS:					$20,262.00
OVERHEAD:		0%			$0.00
OPERATING MARGIN:		0%			$0.00
FCCM (Facilities Capital Cost Money):		0.00%			$0.00
EXPENSES:		0.00%			$0.00
Survey (Field - if by Prime)	0	4-man crew days @	$ -	/ day	$0.00
SUBTOTAL ESTIMATED FEE:					**$20,262.00**

EXHIBIT B - ESTIMATE OF WORK EFFORT AND COST
Post Design Services

Name of Project:	Beckett Bridge Replacement	Consultant Name:	HDR Engineering, Inc.
County:	Pinellas	Consultant No.:	enter consultants proj. number
PO No.	TBD	Date:	9/13/2024
FAP No.:	NA	Estimator:	Jos van Dijk

Response to Inquiries:			48
	Structures		
		Estimate 1 per month for 24 months @ 2 hours each	48

Response to Submittals and Shop Drawings			58
	Structures		58
		Pads	2
		Prestressed FSB's (21 beams)	24
		Traffic Railing	20
		Sidewalk Cover Plates	4
		Bearing Plates	8

b. Tierra Post Design Fee Proposal

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project:	Beckett Bridge Replacement	Consultant Name:	Hardesty Hanover / Tierra
County:	Pinellas	Consultant No.:	6511-15-153
FPN:	001037A	Date:	11/7/2024
FAP No.:	1/0/1900	Estimator:	Larry Moore, PE

Staff Classification	Total Staff Hours From "SH Summary Firm"	Chief Engineer 2	Chief Scientist	Engineer 1	Engineer 2	Engineering Intern	Engineering Technician	Principal Engineer	Secretary/ Clerical	Senior Designer	Senior Engineer 1	Senior Engineering Technician	Senior Scientist	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		$236.15	$182.15	$148.42	$170.62	$118.54	$88.35	$251.96	$110.81	$133.27	$217.43	$112.73	$159.83			
35. Geotechnical	300	60	0	45	45	0	0	60	0	15	75	0	0	300	$61,950	$206.50
Total Staff Hours	300	60	0	45	45	0	0	60	0	15	75	0	0	300		
Total Staff Cost		$14,169.00	$0.00	$6,678.90	$7,677.90	$0.00	$0.00	$15,117.60	$0.00	$1,999.05	$16,307.25	$0.00	$0.00		**$61,949.70**	**$206.50**
														Check =	$61,949.70	

SALARY RELATED COSTS:						$61,949.70
OVERHEAD:			0%			$0.00
OPERATING MARGIN:			0%			$0.00
FCCM (Facilities Capital Cost Money):			0.00%			$0.00
EXPENSES:			0.00%			$0.00
SUBTOTAL ESTIMATED FEE:						**$61,949.70**
Survey (Field)	0	4-person crew	$ -	/ day		$0.00
Geotechnical Field and Lab Testing						
SUBTOTAL ESTIMATED FEE:						**$61,949.70**
Optional Services						$0.00
GRAND TOTAL ESTIMATED FEE:						**$61,949.70**

Notes:

1. This sheet to be used by Subconsultant to calculate its fee.

35. Geotechnical

Estimator: Larry Moore, PE

Beckett Bridge Replacement
001037A

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
	Roadway					
35.1	Document Collection and Review	LS	0	0	0	Post Design-SEE 35.49
35.2	Develop Detailed Boring Location Plan	LS	0	0	0	
35.3	Stake Borings/Utility Clearance	Boring	0	0	0	
35.4	Muck Probing	Crew Day	0	0	0	
35.5	Coordinate and Develop MOT Plans for Field Investigation	EA	0	0	0	
35.6	Drilling Access Permits	Location	0	0	0	
35.7	Property Clearances	EA	0	0	0	
35.8	Groundwater Monitoring	EA	0	0	0	
35.9	LBR/Resilient Modulus Sampling	EA	0	0	0	
35.10	Coordination of Field Work	100 lf of boring	0	0	0	
35.11	Soil and Rock Classification - Roadway	100 lf of boring	0	0	0	
35.12	Design LBR	LS	0	0	0	
35.13	Laboratory Data	100 lf of boring	0	0	0	
35.14	Seasonal High Water Table	Boring	0	0	0	
35.15	Parameters for Water Retention Areas	EA	0	0	0	
35.16	Delineate Limits of Unsuitable Material	Cross-section	0	0	0	
35.17	Electronic Files for Cross-Sections	100 lf of boring	0	0	0	
35.18	Embankment Settlement and Stability	Embankment Boring	0	0	0	
35.19	Monitor Existing Structures	LS	0	0	0	
35.20	Stormwater Volume Recovery and/or Background Seepage Analysis	EA	0	0	0	

35. Geotechnical

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
35.21	Geotechnical Recommendations	LS	0	0	0	
35.22	Pavement Condition Survey and Pavement Evaluation Report	LS	0	0	0	
35.23	Preliminary Roadway Report	LS	0	0	0	
35.24	Final Report	EA	0	0	0	
35.25	Auger Boring Drafting	100 lf boring	0	0	0	
35.26	SPT Boring Drafting	100 lf boring	0	0	0	
				Roadway Geotechnical Subtotal	**0**	
	Structures					
35.27	Develop Detailed Boring Location Plan	LS	0	0	0	Post Design-SEE 35.49_REVIEW AND COMMENT ON INSTALLATION PLANS: (40 HOURS) ● Open Ended PIPE PILES Pile Installation Plan (20 hours) ● Drilled Shaft Installation Plan (20 hours) DRILLED SHAFT TIP CALCULATIONS FOR PILOT HOLE BORINGS: (60 HOURS) ● Average 3 hours per shaft for 20 shafts FOUNDATION PACKAGE REVIEW: (93 HOURS) ● Drilled Shafts_ 5 Bents / Piers at average 3 hours per shaft for 20 shafts (60 hours) ● Method Shafts - 3 hours ● Pipe Piles- 2 Piers - Review and Comment on Test Pile Records and 100% Testing Records (30 hours) REVIEW OF SHOP DRAWINGS: (20 HOURS) RFI/RFM REVIEWS AND RESPONSES: (16 HOURS) ● EST 4 RFIs or RFMs (4 hours each x 4 =16 hours) - basis of 4 hours per RFM or RFI MEETINGS: (24 HOURS) ● Pile Driving, Drilled Shaft, Wall Pre-Construction meetings and other project progress meetings CONSTRUCTION FIELD REVIEWS: (12 HOURS) ● 2 trips (6 hours each x 2 = 12 hours) to perform construction field reviews for miscellaneous purposes, when required. This proposal is based on a total of 2 trips. **GEOTECHNICAL POST-DESIGN SERVICE MAN-HOURS (TOTAL) = 265 HOURS** **Exclusions** **The above hours do not include services that are related to the following:** **•PDA testing or other Dynamic Testing** **•Performance of Pilot Hole Borings** **•Cross Hole Sonic Logging (CSL) or Thermal Integrity testing** **•Shaft Inspection Device (SID) testing** **•Pile driving monitoring** **•Development of Settlement and Vibration Monitoring Plans** **•Vibration monitoring** **•Settlement monitoring** **•Noise monitoring**
35.28	Stake Borings/Utility Clearance	Boring	0	0	0	
35.29	Coordinate and Develop MOT Plans for Field Investigation	EA	0	0	0	
35.30	Drilling Access Permits	Location	0	0	0	
35.31	Property Clearances	EA	0	0	0	
35.32	Collection of Corrosion Samples	EA	0	0	0	
35.33	Coordination of Field Work	100 lf of boring	0	0	0	
35.34	Soil and Rock Classification - Structures	100 lf of boring	0	0	0	
35.35	Tabulation of Laboratory Data	100 lf of boring	0	0	0	
35.36	Estimate Design Groundwater Level for Structures	EA	0	0	0	
35.37	Selection of Foundation Alternatives (BDR)	Bridge boring	0	0	0	
35.38	Detailed Analysis of Selected Foundation Alternate(s)	Bridge boring	0	0	0	
35.39	Bridge Construction and Testing Recommendations	Bridge boring	0	0	0	
35.40	Lateral Load Analysis (Optional)	Bridge boring	0	0	0	
35.41	Walls	Wall Boring	0	0	0	
35.42	Sheet Pile Wall Analysis (Optional)	Wall Boring	0	0	0	
35.43	Design Soil Parameters for Signs, Signals, High Mast Lights, and Strain Poles and Geotechnical Recommendations	Boring	0	0	0	
35.44	Box Culvert Analysis	EA	0	0	0	
35.45	Preliminary Report - BDR	EA	0	0	0	

35. Geotechnical

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
35.46	Final Report - Bridge and Associated Walls	EA	0	0	0	•Sinkhole or subsidence remediation •Construction Quality Control (CQC) testing •CTQP drilled shaft or Pile Driving Inspector services •Contamination assessment services
35.47	Final Reports - Signs, Signals, Box Culvert, Walls and High Mast Lights	EA	0	0	0	
35.48	SPT Boring Drafting	100 lf of boring	0	0	0	
35.49	Other Geotechnical_Post Design	LS	1	265	265	
				Structural Geotechnical Subtotal	**265**	
				Geotechnical Technical Subtotal	**265**	
35.50	Technical Special Provisions and Modified Special Provisions	EA	0	0	0	
35.51	Field Reviews	LS	0	0	0	
35.52	Technical Meetings	LS	0	0	0	
35.53	Quality Assurance/Quality Control	LS	%	5%	13	
35.54	Supervision	LS	%	5%	13	
				Geotechnical Nontechnical Subtotal	**26**	
35.55	Coordination	LS	%	3%	9	
				35. Geotechnical Total	**300**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	
Kickoff Meeting with FDOT	EA	0	0	0	
Boring Layout Approval	EA	0	1	0	
Attend in BDR Review Meeting	EA	0	0	0	
30/60/90% Submittal Review	EA	0	0	0	
Other Meetings	EA	0	1	0	
Subtotal Technical Meetings				**0**	
Progress Meetings (if required by FDOT)	EA	0	1	0	
Phase Review Meetings	EA	0	0	0	
Total Meetings				**0**	

Carries to 35.52

c. Touchstone Post Design Fee Proposal

Date: 12/19/2024

To: Jim Phillips III, PE - Principal
Hardesty & Hanover
5110 Eisenhower Blvd., Suite 310
Tampa, FL 33634

Re: Beckett Bridge Progress Report
(Bridge No. 154000) – Architectural Services During Construction

Dear Mr. Phillips,

The following is a summary of the proposed scope and fee associated with Architectural support for Beckett Bridge during construction:

Scope

Task AR1 – Document Review and Revisions:

- Review construction documents and revised based on comments received from the Owner and Engineer of Record
- Re-Submit final Signed and Sealed Drawings

Task AR2 – RFI Responses:

- Provide responses to Requests for Information (RFI's) from the Contractor during bidding and Construction

Task AR3 – Submittals and Shop Drawing Review:

- Review submittals and shop drawings related to architectural elements for the project during construction.

Task AR4 – Site Visits:

- Attend two site visits during the construction phase of work.

Task AR5 – Administration:

- Administration tasks in association with execution of the work.

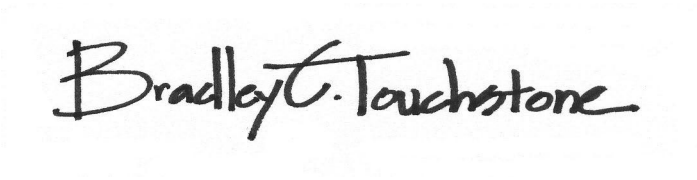
Hourly Estimate for Architectural Tasks	
Task AR1 – Document Review and Revisions	35
Task AR2 – RFI Responses	60
Task AR3 – Submittals and Shop Drawing Review	100
Task AR4 – Site Visits	96
Task AR5 – Administration	30
Total Hours	321

482 W. Harborview Road, Santa Rose Beach, Florida, 32459
Ph. 850.545.5227
FL License # AR0015801

This work will be performed on an hourly basis at an hourly rate of $235.00/ hour.

Do not hesitate to call if you have any questions and thank you for this opportunity.

Sincerely,



Bradley C. Touchstone, FAIA
President
Touchstone Architecture

482 W. Harborview Road, Santa Rose Beach, Florida, 32459
Ph. 850.545.5227
FL License # AR0015801