SECOND AMENDMENT TO ENGINEERING SERVICES AGREEMENT SR 434 ROUNDABOUTS FROM WEST OF JETTA POINT TO SOUTH OF ARTESIA STREET (PS-3047-20/RTB)

THIS SECOND AMENDMENT is made and entered into this _____ day of ______, 202_____, and is to that certain Agreement made and entered into on the 25th day of November, 2020, as amended on the 4th day of August, 2022, between AECOM TECHNICAL SERVICES, INC., whose address is 150 N. Orange Avenue, Suite 200, Orlando, FL 32801, in this Amendment referred to as "CONTRACTOR", and SEMINOLE COUNTY, a charter county and political subdivision of the State of Florida, whose address is Seminole County Services Building, 1101 E. 1st Street, Sanford, Florida 32771, in this Amendment referred to as "COUNTY".

WITNESSETH:

WHEREAS, CONTRACTOR and COUNTY entered into the above referenced Agreement on November 25, 2020, as amended on August 4, 2022, to provide engineering services to Seminole County for the State Road 434 roundabouts from west of Jetta Point to south of Artesia Street Project; and

WHEREAS, the parties desire to amend the Agreement in order to add additional services to the Scope of Services, revise the Rate and Fee Schedule, and to enable both parties to continue to enjoy the mutual benefits the Agreement provides; and

WHEREAS, Section 21 of the Agreement provides that any amendments will be valid only when expressed in writing and duly signed by the parties.

NOW, THEREFORE, in consideration of the mutual understandings and agreements contained in this Second Amendment, the parties agree to amend the Agreement as follows:

- 1. Exhibit A of the Agreement is revised to include the additional services outlined in the new Scope of Services attached to this Second Amendment as Exhibit A.
- 2. Exhibit C of the Agreement is revised by the new Rate and Fee Schedule attached to this Second Amendment as Exhibit C.
- 3. Except as modified by this Second Amendment, all terms and conditions of the original Agreement remain in full force and effect for the term of the Agreement.

IN WITNESS WHEREOF, the parties have executed this Second Amendment for the purposes stated above.

AECOM TECHNICAL SERVICES, INC.

Witness	By:
	JANET EVERETT, Vice President
Print Name	
	Date:
Witness	
 Print Name	

[Remainder of page left intentionally blank, signature block continues onto next page]

SEMINOLE COUNTY, FLORIDA

	By:
Witness	ROBERT BRADLEY,
	Procurement Administrator
Print Name	
	Date:
Witness	
Print Name	
For the use and reliance of	As authorized for execution by the Board of
Seminole County only.	County Commissioners at its 202 regular meeting.
Approved as to form and	202 regular meeting.
legal sufficiency.	
County Attorney RM/dbd 3/21/2024	
Attachments:	
Exhibit A – Scope of Services	
Exhibit C – Rate and Fee Schedule	

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EXHIBIT A

SCOPE OF SERVICES

FOR THE

SR 434 ROUNDABOUTS PROJECT FROM JETTA PT. TO ARTESIA ST. SEMINOLE COUNTY, FLORIDA

CONTRACT AMENDMENT No. 2

Seminole County CIP: 01785145 Financial Project ID: 446491-1-38-01

September 14, 2023

SCOPE OF SERVICESS FOR SR 434 ROUNDABOUTS

FROM JETTA PT. TO ARTESIA ST.

Seminole County, Florida

Contract Amendment No. 2

This Exhibit forms an integral part of Contract Amendment No. 2 between Seminole County (hereinafter referred to as the COUNTY) and AECOM Technical Services, Inc. (hereinafter referred to as the CONSULTANT) relative to the transportation facility described as follows:

Financial Project ID: 446491-1-38-01

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SECTION 3	SPECIFIC SCOPE ITEMS	A-1

SR 434 ROUNDABOUTS FROM JETTA PT TO ARTESIA ST

Contract Amendment No. 2

SCOPE OF SERVICES

SECTION 1 – PURPOSE

This scope of services is for the work associated with the alternative analysis requested by the Florida Department of Transportation (FDOT) on June 29, 2023 and included in the contract for this project. The work efforts outlined below are for new work associated with the request from FDOT to reduce Right of Way impacts along SR 434.

SECTION 2 – PROJECT OBJECTIVE

The objective of this work effort is to provide the County with an alternative concept to reduce Right of Way impacts as requested by FDOT per the coordination meeting on June 29, 2023 to be summarized in an Concept Evaluation Memo and concept plan/profile set. Final design of this concept, if approved by the County, will occur as part of a separate contract amendment.

SECTION 3 – SPECIFIC SCOPE ITEMS

Specific work efforts associated with this Contract Amendment will include the following:

3 PROJECT GENERAL AND COMMON TASKS (AMENDED)

3.4 Contract Maintenance and Project Documentation

Contract maintenance includes project management effort for complete setup and maintenance of files, electronic folders, and documents, developing technical monthly progress reports and schedule updates. Project documentation includes the compilation and delivery of final documents, reports or calculations that support the development of the items listed below.

3.6 Prime Consultant Project Manager Meetings

Includes only the Prime Consultant Project Manager's time for travel and attendance at Activity Technical Meetings and other meetings listed in the meeting summary for Task 3.6 on tab 3 Project General Task of the staff hour forms. Staff hours for other personnel attending Activity Technical Meetings are included in the meeting task for that specific Activity.

4 ROADWAY ANALYSIS (AMENDED)

4.1 Typical Section Package

Prepare two (2) Typical Sections per alternative concept and two (2) Typical Sections for the Final Concept.

4.5 Horizontal/Vertical Geometry

Alternative Analysis

The Consultant will develop up to four (4) Alternative Concepts. Alternative Concepts include lowering the proposed roadway profile and reviewing underdrain feasibility, modifying roadway elements (horizontal roadway geometry, sidewalk/shared-use path, and median islands), roundabout alternatives, and potential utility impacts.

Final Alternative Concept

The County, FDOT, and the Consultant shall collaborate to select and develop one (1) Final Concept that will be incorporated into the final design for FPN 446491-1-38-01.

4.8 Cross Section Design Files

Review cross sections to determine the preliminary anticipated Limits of Construction and Right of Way for the alternative concept matrix and final concept plan. The consultant shall provide up to 10 cross sections at critical locations with the Final Concept Plan.

4.13 Design Variations and Exceptions

Identify variations and exceptions required for alternative concepts and provide as part of the evaluation matrix.

4.19 Other Roadway Analysis

Develop a preliminary curb return detail for sidewalk connections.

4.22 Technical Meetings

The Consultant will attend two (2) meetings with the County and two (2) meetings with FDOT to discuss as part of the Alternatives Analysis. The County and FDOT shall provide comments to the Consultant to be incorporated in Final Concept.

The Consultant will attend two (2) meetings with the County (1 prior to meeting with FDOT and 1 after) and two (2) meetings with FDOT to discuss the Final Alternative Concept.

4.23 Quality Assurance/Quality Control

4.25 Supervision

The SUBCONSULTANT shall perform the following tasks.

4.7 Roundabout Evaluation

No further roundabout evaluation will take place.

4.7.1 Roundabout Final Design Analysis (Mactavandash Drive and Hammock Lane Locations)

As partial two-lane roundabouts at these locations indicate acceptable levels of service, the CONSULTANT shall perform the following analysis:

- -Case I Design Alternatives A Case I roundabout design permits a truck (WB-62FL) to take both lanes through entry and within the circulatory roadway. This type of design can generally allow for a smaller inscribed circle diameter (ICD). One (1) alternative shall be developed at each of the Mactavandash Drive and Hammock Lane intersections.
- -Case II Design with Turbo Features A turbo-style roundabout features raised lane dividers between entry lanes and between circulatory lanes. Because the raised lane dividers assist in providing speed control, the ICD and approach curvature can typically be minimized. One (1) alternative shall be developed at each of the Mactavandash Drive and Hammock Lane intersections.

4.7.2 Roundabout Final Design Analysis (Artesia Street)

To reduce or eliminate right-of-way impacts to the residential properties on the north side of the Artesia Street intersection, the CONSULTANT shall prepare one (1) alternative with the Artesia Street roundabout shifted south and showing minimum 4-ft wide splitter islands on the Artesia Street approaches.

4.23 Quality Assurance/Quality Control

4.25 Supervision

5 Roadway Plans (AMENDED)

5.2.1 Typical Sections

Develop (2) Typical Sections for each alternative concept and two (2) typical sections for the final concept.

5.2.2 Typical Section Details

Develop one (1) typical section detail for curb return.

5.5 Plan/Profile Sheet

Alternative Analysis

The Consultant shall analyze up to four (4) alternative concepts. The Consultant shall prepare a Concept Evaluation Memo, Plan and Profile Sheets for each alternative concept and matrix comparing the results of the alternative evaluation.

Final Alternative Concept

The Consultant shall develop one (1) set of concept plan and profile sheets. The final concept will include the preferred alternative concept determined in Alternative Analysis, a baseline and profile, preliminary Right of Way and Limit of Construction.

5.26 Quality Assurance/Quality Control

5.27 Supervision

6a DRAINAGE ANALYSIS (AMENDED)

6a.1 Drainage Map Hydrology

Review up to four (4) alternatives and conceptual review of changes to hydrology to determine potential revisions to drainage design.

6a.3 Pond Siting Analysis

Preliminary review of potential basin changes and conceptual evaluation of three (3) additional pond sites if needed based on profile changes and hydraulic gradeline constraints.

6a.5 Design of Ditches

Review of offsite ditches for potential elimination based on alternative roadway profile changes. Review of concepts to eliminate ditches or reduce the cross section width.

6a.6 Design of Stormwater Management Facility

Baseflow evaluation of Pond 250 and 450 for potential lowering of water table and evaluation of potential impacts to surrounding environmental resources.

6a.6b Incorporate Offsite Stormwater Management Facilities

Review of offsite ponds draining through the corridor for potential impacts associated with four (4) alternatives for roadway. Conceptual piping of offsite systems in plan view where ditches are eliminated.

6a.8 Design of Floodplain Compensation

Preliminary review of potential impacts/changes to floodplain impact/compensation based on four (4) alternatives, no calculations, only evaluation to determine feasibility and identification of potential issues with each alternative.

6a.9 Design of Storm Drains

Preliminary review of storm drain system for each alternative for feasibility and identification of potential issues for each alternative. Line and grade calculations for trunklines and conceptual plan view layout will be used to determine minimum grade at critical locations.

6a.13 Drainage Design Documentation Report

Provide a drainage memo to document the summary of findings from the evaluation. Exhibits will be limited to only the 11x17 drainage maps and primarily include a narrative and matrix. Line and grade calculations will be provided as an appendix. Right of way and construction costs shall not be included in the matrix or memo.

6a.21 Other Drainage Analysis

Underdrain feasibility analysis for eight (8) potential outfall locations. Identification of issues/feasibility of existing outfalls based on Estimated Seasonal High Water Elevation and conceptual underdrain elevations.

6a.23 Technical Meetings

Eight (8) Meetings with FDOT and the County.

6a.25 Quality Assurance/Quality Control

6a.27 Supervision

6b DRAINAGE PLANS (AMENDED)

6b.1 Drainage Map

11x17 plan view drainage maps consistent with scale and layout provided for original design shall be developed for up to four (4) alternatives. Labeling will be minimal and only including basin name, pond name, critical low point elevations (minimum grade from line and grade storm drain calculation), underdrain outfall locations, and offsite basins. Profile portion shall only include concept profile from roadway and critical low point elevation w/ estimated HGL and underdrain outfall points with biological indicator elevations.

6b.13 Quality Assurance/Quality Control

6b.14 Supervision

8 ENVIRONMENTAL PERMITS and ENVIRONMENTAL CLEARANCES (AMENDED)

8.2.1 Pond Site Alternatives

The CONSULTANT shall review any new alternative pond sites as directed by the COUNTY and information shall be included as part of the Concept Evaluation Memo.

Name of Consultant: AECOM Technical Services, Inc.

SR 434 Roundabouts from W of Jetta Point to S of Artesia St - SA 2 Design Reanalysis 446491-1-38-01

		Project Staff Hours													
Activity No.	Activity	AECOM	KAI	Sub 2	Sub 3	Sub 4	Sub 5	Sub 6	Sub 7	Sub 8	Sub 9	Sub 10	Sub 11	Sub 12	Total Hours
3	Project Common and General Tasks	28	12												40
4	Roadway Analysis	782	171												953
5	Roadway Plans	436	60												496
6a	Drainage Analysis	591													591
6b	Drainage Plans	180													180
7	Utilities	0													0
8	Env. Permits and Env. Clearances	8													8
9	Structures - Summary, Misc. Tasks, Dwgs.	0													0
10	BDR	0													0
11	Temporary Bridge	0													0
12	Short Span Concrete Bridge	0													0
13	Medium Span Concrete Bridge	0													0
14	Structural Steel Bridge	0													0
15	Segmental Concrete Bridge	0													0
16	Movable Span	0													0
17	Retaining Walls	0													0
18	Miscellaneous Structures	0													0
19	Signing & Pavement Marking Analysis	0													0
20	Signing & Pavement Marking Plans	0													0
21	Signalization Analysis	0													0
22	Signalization Plans	0													0
23	Lighting Analysis	0													0
24	Lighting Plans	0													0
25	Landscape Analysis	0													0
26	Landscape Plans	0													0
27	Survey - Field and Office Support	0													0
28	Photogrammetry	0													0
29	Mapping	0													0
30	Terrestrial Mobile LiDAR	0													0
31	Architecture Development	0													0
32	Noise Barriers Impact Design Assessment	0													0
33	ITS Analysis	0													0
34	ITS Plans	0													0
35	Geotechnical	0													0
36	3D Modeling	0													0
	Project Total	2,025	243	0	0	0	0	0	0	0	0	0	0	0	2,268
27	Survey Field Crew Days	0													0

Notes: 1. Staff hours for prime consultant come directly from each discipline's worksheet.

^{2.} Staff hours for subconsultants are to be entered manually into columns D through O.

^{3.} For workbooks prepared by subconsultants, their project hours will be totaled in column C.

Financial Project Number:	446491-1-38-01	Project Name: SR 434 Roundabouts from W of Jetta Point to S of Artesia St - SA 2 Design Reanalysis

FAP Number: Date: 12/27/2023 Name of Consultant: AECOM Technical Services, Inc.

	Hours from "Summary" sheet					EMPLO	YEE CLASSIF	ICATION							TAL HOURS	ON CADD
WORK ACTIVITY	Grand Total	Project Manager	Chief Engineer 1	Senior Engineer 1	Engineer 2	Engineer 1	Engineering Intern	Senior Designer	Senior Landscape Architect	Landscape Designer	Senior Env Specialist	Env Specialist	Senior Utility Coordinator	RAI	NGE	
	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours			PERCENT
3. Project General and Project Common Tasks	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
4. Roadway Analysis	953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
5. Roadway Plans	496	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
6a. Drainage Analysis	591	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
6b. Drainage Plans	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Environmental Permits and Env. Clearances	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0 0		0	0	0	0	
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25. Landscape Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26. Landscape Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TOTALS	2268	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+
L	2200	,												,		+
Notes:	Field Survey Estimate: 0 4-person crew days (Prime Consultar					0	0									

Notes:

1. This worksheet provides the distribution of the grand total staff hours for a project.

^{2.} Percentages for staff hour distribution by classification are entered below in rows 65 to 99 of this sheet.
3. Total Staff Hours (column O) may not match staff hours from Summary worksheet (column B) due to rounding. Staff hours calculated for employee classifications are to be adjusted so totals in columns B and O match.

^{4.} Formulas under "Total Staff Hours Range" (columns O & P) may be adjusted to provide desired range.

^{5.} This spreadsheet to be provided in Technical Proposals for Districts that require a breakdown of hours by classification.

Financial Project Number:	446491-1-38-01	Project Name:	SR 434 Roundabouts from W o	f Jetta Point to S of Artesia St - SA 2 Design Reanalysis
FAP Number:	0	Date:	12/27/2023	Name of Consultant: AECOM Technical Services, Inc.

				Staff Ho	ur Distributi	on Percent	ages - Grand	l Total						
	Hours from "Summary" sheet Grand Total	Project Manager	Chief Engineer 1	Senior Engineer 1	Engineer 2	Engineer 1	Engineering Intern	Senior Designer	Senior Landscape Architect	Landscape Designer	Senior Env Specialist	Env Specialist	Senior Utility Coordinator	Total
Project General and Project Common Tasks	40	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
4. Roadway Analysis	953	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
5. Roadway Plans	496	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
6a. Drainage Analysis	591	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
6b. Drainage Plans	180	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
7. Utilities	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
Environmental Permits and Env. Clearances	8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
10. Structures - Bridge Development Report	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
11. Structures - Temporary Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
12. Structures - Short Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
13. Structures - Medium Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
14. Structures - Structural Steel Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
15. Structures - Segmental Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
16. Structures - Movable Span	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
17. Structures - Retaining Walls	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
18. Structures - Miscellaneous	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
19. Signing & Pavement Marking Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
20. Signing & Pavement Marking Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
21. Signalization Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
22. Signalization Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
23. Lighting Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
24. Lighting Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
25. Landscape Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
26. Landscape Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
27. Survey (Field & Office Support)	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
28. Photogrammetry	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
29. Mapping	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
30. Terrestrial Mobile LiDAR	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
31. Architecture Development	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
32. Noise Barriers Impact Design Assessment	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
33. Intelligent Transportation Systems Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
34. Intelligent Transportation Systems Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
35. Geotechnical	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
36. 3D Modeling	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%

Note: This spreadsheet to be used in Technical Proposal for Districts requiring the Grand Total hours be provided along with percentage distribution by classification.

Financial Project Number:	446491-1-38-01	Project Name:	SR 434 Roundabout	ts from W of Jetta Point to S of Artesia St - SA 2 Design Reanalysis
FAP Number:	0	Date:	12/27/2023	Name of Consultant: AECOM Technical Services, Inc.

WORK ACTIVITY	Hours from "Summary" sheet	EMPLOYEE CLASSIFICATION													TAL HOURS	ON CADD
	Firm Total	Project Manager	Chief Engineer 1	Senior Engineer 1	Engineer 2	Engineer 1	Engineering Intern	Senior Designer	Senior Landscape Architect	Landscape Designer	Senior Env Specialist	Env Specialist	Senior Utility Coordinator	RAI	NGE	
	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours			PERCENT
3. Project General and Project Common Tasks	28	28	0	0	0	0	0	0	0	0	0	0	0	28	31	
4. Roadway Analysis	782	39	0	469	0	0	274	0	0	0	0	0	0	782	860	
5. Roadway Plans	436	22	0	131	0	0	283	0	0	0	0	0	0	436	480	
6a. Drainage Analysis	591	29	0	355	0	207	0	0	0	0	0	0	0	591	650	
6b. Drainage Plans	180	0	0	18	0	162	0	0	0	0	0	0	0	180	198	
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8. Environmental Permits,and Env. Clearances	8	0	0	0	0	0	0	0	0	0	8	0	0	8	9	
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25. Landscape Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26. Landscape Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTALS	2,025	118	0	973	0	369	557	0	0	0	8	0	0	2,025	2,228	
	ш	Ш			ш	ш	ш	<u> </u>	Field Survey	Estimate:						
												2,025	2,228			

This worksheet provides the distribution of a <u>firm's total</u> staff hours for a project.
 Percentages for staff hour distribution by classification are entered below in rows 64 to 98 of this sheet.

^{3.} Total Staff Hours (column O) may not match staff hours from Summary worksheet (column B) due to rounding. Staff hours calculated for employee classifications are to be adjusted so totals in columns B and O match.

^{4.} Formulas under "Total Staff Hours Range" (columns O & P) may be adjusted to provide desired range.

Financial Project Number:	446491-1-38-01	Project Nan	ne SR 434 Roundabouts from W of	of Jetta Point to S of Artesia St - SA 2 Design Reanalysis
FAP Number:	0	Date:	12/27/2023	Name of Consultant: AECOM Technical Services, Inc.

			S	taff Hour D	istribution F	ercentages	- Firm Total							
	Hours from "Summary" sheet Firm Total	Project Manager	Chief Engineer 1	Senior Engineer 1	Engineer 2	Engineer 1	Engineering Intern	Senior Designer	Senior Landscape Architect	Landscape Designer	Senior Env Specialist	Env Specialist	Senior Utility Coordinator	Total
Project General and Project Common Tasks	28	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
4. Roadway Analysis	782	5.0%	0.0%	60.0%	0.0%	0.0%	35.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
5. Roadway Plans	436	5.0%	0.0%	30.0%	0.0%	0.0%	65.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
6a. Drainage Analysis	591	5.0%	0.0%	60.0%	0.0%	35.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
6b. Drainage Plans	180	0.0%	0.0%	10.0%	0.0%	90.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
7. Utilities	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
8. Environmental Permits, and Env. Clearances	8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.00%
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
10. Structures - Bridge Development Report	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
11. Structures - Temporary Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
12. Structures - Short Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
13. Structures - Medium Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
14. Structures - Structural Steel Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
15. Structures - Segmental Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
16. Structures - Movable Span	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
17. Structures - Retaining Walls	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
18. Structures - Miscellaneous	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
19. Signing & Pavement Marking Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
20. Signing & Pavement Marking Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
21. Signalization Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
22. Signalization Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
23. Lighting Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
24. Lighting Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
25. Landscape Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
26. Landscape Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
27. Survey (Field & Office Support)	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
28. Photogrammetry	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
29. Mapping	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
30. Terrestrial Mobile LiDAR	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
31. Architecture Development	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
32. Noise Barriers Impact Design Assessment	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
33. Intelligent Transportation Systems Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
34. Intelligent Transportation Systems Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
35. Geotechnical	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
36. 3D Modeling	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%

Financial Project Number:	446491-1-38-01	Project Name:	SR 434 Roundabouts from W of	of Jetta Point to S of Artesia St - SA 2 Design Reanalysis
FAP Number:	0	Date:	12/27/2023	Name of Consultant: Kittelson & Associates

WORK ACTIVITY	Hours from		EMPLOYEE CLASSIFICATION												TAL HOURS	ON CADD
	Firm Total	Principal Engineer (QA/QC)	Associate Engineer	Senior Engineer/PM		Engineer Intern	Associate Technician	Senior Designer	CADD / Computer Tech	Secretary / Clerical				RAI	NGE	
	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	40	40	PERCENT
3. Project General and Project Common Tasks	12	12	0	0	0	0	0	0	0	0	0	0	0	12	13	1
4. Roadway Analysis	171	10	161	0	0	0	0	0	0	0	0	0	0	171	188	+
5. Roadway Plans	60	3	0	0	57	0	0	0	0	0	0	0	0	60	66	+
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8. Environmental Permits,and Env. Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25. Landscape Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26. Landscape Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTALS	243	25	161	0	57	0	0	0	0	0	0	0	0	243	267	<u> </u>
1				1				-	Field Survey		-	-	-	-		<u> </u>
Notes:									0	4-person crev	v days	FIRM	TOTAL	243	267	

This worksheet provides the distribution of a <u>firm's total</u> staff hours for a project.
 Percentages for staff hour distribution by classification are entered below in rows 64 to 98 of this sheet.

^{3.} Total Staff Hours (column O) may not match staff hours from Summary worksheet (column B) due to rounding. Staff hours calculated for employee classifications are to be adjusted so totals in columns B and O match.

^{4.} Formulas under "Total Staff Hours Range" (columns O & P) may be adjusted to provide desired range.

Financial Project Number:	446491-1-38-01	Project Nam	eSR 434 Roundabouts from World	f Jetta Point to S of Artesia St - SA 2 Design Reanalysis
FAP Number:	0	Date:	12/27/2023	Name of Consultant: Kittelson & Associates

Staff Hour Distribution Percentages - Firm Total														
	Hours from "Summary" sheet Firm Total	Principal Engineer (QA/QC)	Associate Engineer	Senior Engineer/PM	Engineer	Engineer Intern	Associate Technician	Senior Designer	CADD / Computer Tech	Secretary / Clerical				Total
Project General and Project Common Tasks	12	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
4. Roadway Analysis	171	6.0%	94.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
5. Roadway Plans	60	5.0%	0.0%	0.0%	95.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
6a. Drainage Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
6b. Drainage Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
7. Utilities	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
8. Environmental Permits,and Env. Clearances	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
10. Structures - Bridge Development Report	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
11. Structures - Temporary Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
12. Structures - Short Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
13. Structures - Medium Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
14. Structures - Structural Steel Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
15. Structures - Segmental Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
16. Structures - Movable Span	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
17. Structures - Retaining Walls	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
18. Structures - Miscellaneous	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
19. Signing & Pavement Marking Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
20. Signing & Pavement Marking Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
21. Signalization Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
22. Signalization Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
23. Lighting Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
24. Lighting Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
25. Landscape Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
26. Landscape Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
27. Survey (Field & Office Support)	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
28. Photogrammetry	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
29. Mapping	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
30. Terrestrial Mobile LiDAR	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
31. Architecture Development	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
32. Noise Barriers Impact Design Assessment	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
33. Intelligent Transportation Systems Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
34. Intelligent Transportation Systems Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
35. Geotechnical	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
36. 3D Modeling	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

SR 434 Roundabouts from W of Jetta Point to S of Artesia St - SA 2 Design Reanalysis Seminole 446491-1-38-01 1/0/1900

Name of Project: County: FPN: FAP No.:

Consultant Name: AECOM Technical Services, Inc.
Consultant No.: enter consultants proj. number
Date: 12/27/2023

Estimator: insert name

TAI NO	Total Staff	T =					T =		Senior					SH	Salary	Average
Staff Classification	Hours From	Project Manager	Chief Engineer 1	Senior Engineer 1	Engineer 2	Engineer 1	Engineering Intern	Senior Designer	Landscape Architect	Landscape Designer	Senior Env Specialist	Env Specialist	Senior Utility Coordinator	Ву	Cost By	Rate Per
	Summary -	\$96.20	\$108.17	\$92.55	\$64.66	\$50.66	\$39.31	\$57.41	\$71.58	\$28.93	\$46.81	\$32.03	\$58.86	Activity	Activity	Task
Project General and Project Common Tasks	28	28	0	0	0	0	0	0	0	0	0	0	0	28	\$2,694	\$96.20
4. Roadway Analysis	782	39	0	469	0	0	274	0	0	0	0	0	0	782	\$57,929	\$74.08
5. Roadway Plans	436	22	0	131	0	0	283	0	0	0	0	0	0	436	\$25,365	\$58.18
6a. Drainage Analysis	591	29	0	355	0	207	0	0	0	0	0	0	0	591	\$46,132	\$78.06
6b. Drainage Plans	180	0	0	18	0	162	0	0	0	0	0	0	0	180	\$9,873	\$54.85
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
8. Environmental Permits,and Env. Clearances	8	0	0	0	0	0	0	0	0	0	8	0	0	8	\$374	\$46.81
Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
25. Landscape Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	2,025	118	0	973	0	369	557	0	0	0	8	0	0	2,025		
Total Staff Cost		\$11,351.60	\$0.00	\$90,051.15	\$0.00	\$18,693.54	\$21,895.67	\$0.00	\$0.00	\$0.00	\$374.48	\$0.00	\$0.00		\$142,366.44	\$70.30
														Check =	\$142,366.44	

Survey Field Days by Subconsultant 4 - Person Crew:

This sheet to be used by Prime Consultant to calculate the Grand Total fee.

2. Manually enter fee from each subconsultant. Unused subconsultant rows may be hidden.

				1	
			Check :	= \$142,366.44	
SALARY RELATED COSTS:					\$142,366.44
OVERHEAD:		131.94%			\$187,838.28
OPERATING MARGIN:		34.79%			\$49,529.28
FCCM (Facilities Capital Cost Me	oney):	0.00%			\$0.00
EXPENSES:		10.82%			\$15,404.05
Survey (Field - if by Prime)	0	4-person crew days @	\$ -	/ day	\$0.00
SUBTOTAL ESTIMATED FEE:					\$395,138.05
Subconsultant: KAI					\$47,804.32
Subconsultant: Sub 2					\$0.00
Subconsultant: Sub 3					\$0.00
Subconsultant: Sub 4					\$0.00
Subconsultant: Sub 5					\$0.00
Subconsultant: Sub 6		1		1	\$0.00
Subconsultant: Sub 7					\$0.00
Subconsultant: Sub 8					\$0.00
Subconsultant: Sub 9					\$0.00
Subconsultant: Sub 10					\$0.00
Subconsultant: Sub 11					\$0.00
Subconsultant: Sub 12					\$0.00
SUBTOTAL ESTIMATED FEE:					\$442,942.37
Geotechnical Field and Lab T	esting				\$0.00
SUBTOTAL ESTIMATED FEE:					\$442,942.37
Optional Services					\$0.00
GRAND TOTAL ESTIMATED F	EE:				\$442,942.37

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: SR 434 Roundabouts from W of Jetta Point to S of Artesia St - SA 2 Design Reanalysis

County: Seminole FPN: 446491-1-38-01 FAP No.: 1/0/1900 Consultant No.: enter consultants proj. number
Date: 12/27/2023

stimator: Brandon W. Kelley, PE

Consultant Name: AECOM Technical Services, Inc.

FAP No.:	1/0/1900												Estimator:	Brandon W. K	elley, PE	
Staff Classification	"SH Summary	Principal Engineer	Associate Engineer	Senior Engineer/PM	Engineer	Engineer Intern	Associate Technician	Secretary/CI erical						SH By Activity	Salary Cost By Activity	Average Rate Per Task
0.0 1 10 10 7 1	Firm"	\$68.67	\$62.91	\$50.45	\$36.72	\$30.81	\$46.35	\$22.98		_	_	_	_			
Project General and Project Common Tasks	12	12	0	0	0	0	0	0	0	0	0	0	0	12	\$824	\$68.67
4. Roadway Analysis	171	10	161	0	0	0	0	0	0	0	0	0	0	171	\$10,815	\$63.25
5. Roadway Plans	60	3	0	0	57	0	0	0	0	0	0	0	0	60	\$2,299	\$38.32
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Environmental Permits,and Env. Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
 Structures - Structural Steel Bridge 	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
25. Landscape Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	243	25	161	0	57	0	0	0	0	0	0	0	0	243		
Total Staff Cost	•	\$1,716.75	\$10,128.51	\$0.00	\$2,093.04	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$13,938.30	\$57.36
								•						Check =	\$13,938.30	

Notes:

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

				Check =	\$13,938.30	
SALARY RELA	ATED COSTS:					\$13,938.30
OVERHEAD:			203.35%			\$28,343.53
OPERATING N	MARGIN:		34.00%			\$4,739.02
FCCM (Facilitie	es Capital Cost	Money):	0.441%			\$61.47
EXPENSES:			5.18%			\$722.00
SUBTOTAL ES	STIMATED FEE	:				\$47,804.32
Survey (Field)		0	4-person crew	\$ -	/ day	\$0.00
Geotechnical F	ield and Lab Te	esting				\$0.00
SUBTOTAL ES	STIMATED FEE	<u>:</u> :				\$47,804.32
Optional Services						\$0.00
GRAND TOTA	LESTIMATED	FFF.				\$47.804.32

SR 434 Roundabouts from W of Jetta Point to S of Artesia St - SA 2 Design Reanalysis 446491-1-38-01

Representing	Print Name	Signature / Date
Seminole County		
AECOM		

NOTE: Signature Block is optional, per District preference

Estimator:

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.1	Public Involvement					
3.1.1	Community Awareness Plan	LS	1	0	0	
3.1.2	Notifications	LS	1	0	0	
3.1.3	Preparing Mailing Lists	LS	1	0	0	
3.1.4	Median Modification Letters	LS	1	0	0	
3.1.5	Driveway Modification Letters	LS	1	0	0	
3.1.6	Newsletters	LS	1	0	0	
3.1.7	Renderings and Fly Throughs	LS	1	0	0	
3.1.8	PowerPoint Presentation	LS	1	0	0	
3.1.9	Public Meeting Preparations	LS	1	0	0	
3.1.10	Public Meeting Attendance/Followup	LS	1	0	0	
3.1.11	Other Agency Meetings	LS	1	0	0	
3.1.12	Web Site	LS	1	0	0	
		3.1 Pub	lic Involvem	ent Subtotal	0	
3.2	Joint Project Agreements	EA	0	0	0	
3.3	Specifications & Estimates					
3.3.1	Specifications Package Preparation	LS	1	0	0	
3.3.2	Estimated Quantites Report Preparation	Report	0	Calculated Hours	0	
0.0.2	Estimated Quantities (topol() repairation	Components	0	0	Ÿ	
3.4	Contract Maintenance and Project Documentation	LS	1	16	16	4 hrs/month x 4 months
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	0	0	
3.6	Prime Consultant Project Manager Meetings	LS	1	12	12	See listing below
3.7	Plans Update	LS	1	0	0	

SA 2 SR 434_12-04-23_Scope and Fee.xlsx 3. Project General Tasks

Page 12 of 33 12/6/2023

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.8	Post Design Services	LS	1	0	0	
3.9	Digital Delivery	LS	1	0	0	
3.10	Risk Assessment Workshop	LS	1	0	0	
3.11	Railroad, Transit, and/or Airport Coordination	LS	1	0	0	
3.11.1	Aeronautical Evaluation	LS	1	0	0	
3.12	Landscape and Existing Vegetation Coordination	LS	1	0	0	
3.13	Other Project General Tasks	LS	1	0	0	
	3. Project Com	mon and Pro	ject General	Tasks Total	28	
3.6 - List	of Project Manager Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments
Roadway	Analysis	EA	8	1.5	12	virtual
Drainage		EA	0	0	0	
Utilities		EA	0	0	0	
Environm	ental	EA	0	0	0	
Structures		EA	0	0	0	
Signing &	Pavement Marking	EA	0	0	0	
Signalizat	ion	EA	0	0	0	
Lighting		EA	0	0	0	
Landscap	e Architecture	EA	0	0	0	
Survey		EA	0	0	0	
Photogran	nmetry	EA	0	0	0	
ROW & N	lapping	EA	0	0	0	
Terrestria	Mobile LiDAR	EA	0	0	0	
			1			
Architectu	re	EA	0	0	0	

0

0

0

0

0

12

Notes:

ITS Analysis

Geotechnical

Progress Meetings

Phase Reviews

Field Reviews

1. If the hours per meeting vary in length (hours) enter the average in the hour/unit column.

EΑ

EΑ

EΑ

EΑ

EΑ

0

0

0

0

0

8

0

0

0

0

2. Do not double count agency meetings between permitting agencies.

Total Project Manager Meetings

Total PM Meeting Hours carries to Task 3.6 above

Task	Task	Units	No of Units Hours/ Unit	Total	Comments
No.	Tuon	00	ino di dimo riburo, dim	Hours	

^{3.} Project manager meetings are calculated in each discipline sheet and brought forward to Column D, except for Photogrammetry.

SR 434 Roundabouts from W of Jetta Point to S of Artesia St - SA 2 Design Reanalysis

446491-1-38-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Estimator:

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.1	Public Involvement					
3.1.1	Community Awareness Plan	LS	1	0	0	
3.1.2	Notifications	LS	1	0	0	
3.1.3	Preparing Mailing Lists	LS	1	0	0	
3.1.4	Median Modification Letters	LS	1	0	0	
3.1.5	Driveway Modification Letters	LS	1	0	0	
3.1.6	Newsletters	LS	1	0	0	
3.1.7	Renderings and Fly Throughs	LS	1	0	0	
3.1.8	PowerPoint Presentation	LS	1	0	0	
3.1.9	Public Meeting Preparations	LS	1	0	0	
3.1.10	Public Meeting Attendance/Followup	LS	1	0	0	
3.1.11	Other Agency Meetings	LS	1	0	0	
3.1.12	Web Site	LS	1	0	0	
		3.1 Pub	lic Involvem	ent Subtotal	0	
3.2	Joint Project Agreements	EA	0	0	0	
3.3	Specifications & Estimates					
3.3.1	Specifications Package Preparation	LS	1	0	0	
3.3.2	Estimated Quantites Report Preparation	Report	0	Calculated Hours	0	
0.0.2	Estimated Quantites (Coport) reparation	Components	0	0	Ŭ	
3.4	Contract Maintenance and Project Documentation	LS	1	0	0	
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	0	0	
3.6	Prime Consultant Project Manager Meetings	LS	1	12	12	See listing below
3.7	Plans Update	LS	1	0	0	

SA 2 SR 434_12-04-23_Scope and Fee.xlsx 3. Project General Tasks (KAI)

Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
Post Design Services	LS	1	0	0	
Digital Delivery	LS	1	0	0	
Risk Assessment Workshop	LS	1	0	0	
Railroad, Transit, and/or Airport Coordination	LS	1	0	0	
Aeronautical Evaluation	LS	1	0	0	
Landscape and Existing Vegetation Coordination	LS	1	0	0	
Other Project General Tasks	LS	1	0	0	
3. Project Com	mon and Pro	ject General	Tasks Total	12	
of Project Manager Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments
Analysis	EA	8	1.5	12	
	EA	0	0	0	
	EA	0	0	0	
ental	EA	0	0	0	
s	EA	0	0	0	
Pavement Marking	EA	0	0	0	
ion	EA	0	0	0	
	EA	0	0	0	
e Architecture	EA	0	0	0	
	EA	0	0	0	
mmetry	EA	0	0	0	
Mapping	EA	0	0	0	
l Mobile LiDAR	EA	0	0	0	
ие	EA	0	0	0	
rriers	EA	0	0	0	
rsis	EA	0	0	0	
ical	EA	0	0	0	
Meetings	EA	0	0	0	
	Post Design Services Digital Delivery Risk Assessment Workshop Railroad, Transit, and/or Airport Coordination Aeronautical Evaluation Landscape and Existing Vegetation Coordination Other Project General Tasks 3. Project Common of Project Manager Meetings Analysis ental Pavement Marking ion e Architecture mmetry Mapping I Mobile LiDAR ure rriers sis	Post Design Services Digital Delivery LS Risk Assessment Workshop Railroad, Transit, and/or Airport Coordination LS Aeronautical Evaluation LS Landscape and Existing Vegetation Coordination Cher Project General Tasks LS 3. Project Common and Pro Of Project Manager Meetings Analysis EA EA ental S Pavement Marking ion EA EA e Architecture EA mmetry fapping I Mobile LiDAR Ire Triers EA EA EA EA EA EA EA EA EA E	Post Design Services	Post Design Services	Post Design Services

0

12

Notes:

Field Reviews

1. If the hours per meeting vary in length (hours) enter the average in the hour/unit column.

EΑ

0

8

2. Do not double count agency meetings between permitting agencies.

Total Project Manager Meetings

Total PM Meeting Hours carries to Task 3.6 above

Task	Task	Units	No of Units Hours/ Unit	Total	Comments
No.				Hours	

^{3.} Project manager meetings are calculated in each discipline sheet and brought forward to Column D, except for Photogrammetry.

Estimator: Kristine Prince

SR 434 Roundabouts from W of Jetta Point to S of Artesia St - SA 2 Design Reanalysis

446491-1-38-01

Representing	Print Name	Signature / Date
Seminole County		
AECOM		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.1	Typical Section Package	LS	10	4	40	4 Alternative Concepts - 2 Typical Sections per Alternative @ 4 hrs. 1 Final Concept - 2 Typical Sections @ 4 hrs
4.2	Pavement Type Selection Report	LS	1	0	0	
4.3	Pavement Design Package	LS	1	0	0	
4.4	Cross-Slope Correction	LS	1	0	0	
4.5	Horizontal /Vertical Master Design Files	LS	5	70	350	4 Alternative Concepts - 70 hours per Alternative (lowering SR 434 proposed profile, horizontal geometry, modifying sidewalks/shared use path, median islands) 1 Final Concept - 70 hrs (1 Baseline and Profile; does not include roundabout profiles or sidestreet profiles)
4.6	Access Management	LS	1	0	0	
4.7	Roundabout Final Design Analysis	LS	1	0	0	
4.8	Cross Section Design Files	LS	5	40	200	4 Alternative Concepts - 40 hours per Alternative (For Right of Way and LOC determination) 1 Final Concept - 40 hrs.(For Right of Way, LOC determination and 10 sections)
4.9	Temporary Traffic Control Plan Analysis	LS	1	0	0	
4.10	Master TTCP Design Files	LS	1	0	0	
4.11a	Selective Clearing and Grubbing of Existing VegetationField Assessment	LS	1	0	0	
4.11b	Selective Clearing and Grubbing Site Inventory of Existing Vegetation and Cross-Discipline Coordination (OPTIONAL SERVICES)	LS	1	0	0	
4.11c	Selective Clearing and Grubbing- Existing Vegetation Maintenance Report	LS	1	0	0	
4.12	Tree Dispostion Plan	LS	1	0	0	
4.13	Design Variations and Exceptions	LS	4	10	40	Identify the variations and exceptions needed for 4 alternatives at 10 hrs ea.
4.14	Design Report	LS	1	0	0	
		Length (Miles)	0.00	Calculated		
4.15	Roadway Quantities for EQ Report	Complexity		Hours	0	
		Interchanges Rest Areas	0	0		
1 16	TTCD Quantities for EQ Report	Complexity		Calculated Hours	Λ	

SA 2 SR 434_12-04-23_Scope and Fee.xlsx 4. Roadway Analysis

Task No.	lask	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.10	Troi Quantities for EQ (Neport	Major Phases	0	0	0	
4.17	Cost Estimate	LS	1	0	0	
4.18	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
4.19	Other Roadway Analyses	LS	1	16	16	Detail for Curb Return and Sidewalk Connections
	R	oadway Ana	alysis Techni	ical Subtotal	646	

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.20	Field Reviews	LS	1	0	0	
4.21	Monitor Existing Structures	LS	1	0	0	
4.22	Technical Meetings	LS	1	72	72	Meetings are listed below
4.23	Quality Assurance/Quality Control	LS	%	5%	32	
4.24	Independent Peer Review	LS	%	0%	0	
4.25	Supervision	LS	%	5%	32	
	Road	lway Analysi	s Nontechni	cal Subtotal	136	
4.26	Coordination	LS	%	0%	0	Coordination included in Other Meetings
		4.	Roadway Ar	nalysis Total	782	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Typical Section	EA	2	3	6	2 people @ 1.5 hrs.	yes	2
Pavement	EA	0	0	0			0
Access Management	EA	0	0	0			0
15% Line and Grade	EA	2	3	6	2 people @ 1.5 hrs. x 2 meetings	yes	2
Driveways	EA	0	0	0			0
Local Governments (cities, counties, MPO)	EA	4	3	12	2 people @ 1.5 hrs. x 4 meetings	yes	4
Work Zone Traffic Control	EA	0	0	0			0
30/60/90/100% Comment Review Meetings	EA	0	0	0			0
Other Meetings	EA	16	3	48	Coordination Meetings with Drainage and KAI for Roundabouts (weekly meetings x 1.5 hr x 2 people)	no	0
Subtotal Technical Meetings				72	Subtotal Pro	ject Manager Meetings	8
Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3		
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3		
Total Meetings				72	Total Project Manager Meetings (carries to T	ab 3)	8

Carries to 4.21 Carries to Tab 3

SR 434 Roundabouts from W of Jetta Point to S of Artesia St - SA 2 Design Reanalysis

446491-1-38-01

Representing	Print Name	Signature / Date
Seminole County		
Kittelson & Associates, Inc.	Brandon W. Kelley, PE	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.1	Typical Section Package	LS	0	0	0	
4.2	Pavement Type Selection Report	LS	0	0	0	
4.3	Pavement Design Package	LS	0	0	0	
4.4	Cross-Slope Correction	LS	0	0	0	
4.5	Horizontal /Vertical Master Design Files	LS	0	0	0	
4.6	Access Management	LS	0	0	0	
4.7	Roundabout Final Design Analysis	LS	1	140	140	Revision: 50 hr per revision of Mactavandash and Hammock Lane. 40 hr per Artesia Revision. Will include revised designs and updated speed & design vehicle checks. Proposed time includes revision per FDOT and County Comment.
4.8	Cross Section Design Files	LS	0	0	0	
4.9	Temporary Traffic Control Plan Analysis	LS	0	0	0	
4.10	Master TTCP Design Files	LS	0	0	0	
4.11a	Selective Clearing and Grubbing of Existing VegetationField Assessment	LS	0	0	0	
4.11b	Selective Clearing and Grubbing Site Inventory of Existing Vegetation and Cross-Discipline Coordination (OPTIONAL SERVICES)	LS	0	0	0	
4.11c	Selective Clearing and Grubbing- Existing Vegetation Maintenance Report	LS	0	0	0	
4.12	Tree Dispostion Plan	LS	0	0	0	
4.13	Design Variations and Exceptions	LS	0	0	0	
4.14	Design Report	LS	0	0	0	
		Length (Miles)	0.00	Calculated		
4.15	Roadway Quantities for EQ Report	Complexity		Hours	0	
		Interchanges Rest Areas	0	0		
4 16	TTCP Quantities for FQ Report	Complexity		Calculated Hours	n	

SA 2 SR 434_12-04-23_Scope and Fee.xlsx 4. Roadway Analysis (KAI)

Task No.	lask	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.10	Troi Quantities for EQ (Neport	Major Phases	0	0	0	
4.17	Cost Estimate	LS	0	0	0	
4.18	Technical Special Provisions and Modified Special Provisions	LS	0	0	0	
4.19	Other Roadway Analyses	LS	0	0	0	
	R	Roadway Ana	llysis Techni	ical Subtotal	140	

Task No.	lask	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.20	Field Reviews	LS	0	0	0	
4.21	Monitor Existing Structures	LS	0	0	0	
4.22	Technical Meetings	LS	1	17	17	Meetings are listed below
4.23	Quality Assurance/Quality Control	LS	%	5%	7	
4.24	Independent Peer Review	LS	%	0%	0	
4.25	Supervision	LS	%	5%	7	
	Road	lway Analysi	s Nontechni	cal Subtotal	31	
4.26	Coordination	LS	%	0%	0	
		4.	Roadway Ar	nalysis Total	171	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments PM Attendance Meeting Require	Number
Typical Section	EA	0	0	0		0
Pavement	EA	0	0	0		0
Access Management	EA	0	0	0		0
15% Line and Grade	EA	0	0	0		0
Driveways	EA	0	0	0		0
					Initial Meeting for Design Changes / Review of Revised Designs. Meetings with both FDOT and County. 4 meetings at 1 hr apiece with	1
Local Governments (cities, counties, MPO)	EA	4	2	8	2 KAI. yes	
Work Zone Traffic Control	EA	0	0	0		0
30/60/90/100% Comment Review Meetings	EA	0	0	0		0
Other Meetings	EA	6	1.5	9	Meeting with FDOT Central Office to discuss roundabout design revisions and Coordination Meeting with AECOM yes	1
Subtotal Technical Meetings				17	Subtotal Project Manager Meet	ings 2
Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3	
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3	
Total Meetings				17	Total Project Manager Meetings (carries to Tab 3)	

Carries to 4.21 Carries to Tab 3

SR 434 Roundabouts from W of Jetta Point to S of Artesia St - SA 2 Design Reanalysis

446491-1-38-01

Representing	Print Name	Signature / Date
Seminole County		
AECOM		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.1	Key Sheet		Sheet	0	0	0	
5.2	Typical Section Sheets						
5.2.1	Typical Sections		EA	10	6	60	4 Alternative Concepts - 2 Typical Sections per Alternative @ 6 hrs. 1 Final Concept - 2 Typical Sections @ 6 hrs
5.2.2	Typical Section Details		EA	1	6	6	Detail for Curb Return and Sidewalk Connections
5.3	General Notes/Pay Item Notes		Sheet	0	0	0	
5.4	Project Layout		Sheet	0	0	0	
5.5	Plan/Profile Sheet		Sheet	110	3	330	4 Alternative Plan and Profile Sheets with Right of Way and LOC (22 sheets per alternative) Final Alternative Plan and Profile Sheets with Right of Way and LOC (22 sheets)
5.6	Profile Sheet		Sheet	0	0	0	
5.7	Plan Sheet		Sheet	0	0	0	
5.8	Special Profile		Sheet	0	0	0	
5.9	Back-of-Sidewalk Profile Sheet		Sheet	0	0	0	
5.10	Interchange Layout Sheet		Sheet	0	0	0	
5.11	Ramp Terminal Details (Plan View)		Sheet	0	0	0	
5.12	Intersection Layout Details	_	Sheet	0	0	0	
5.13	Special Details		EA	0	0	0	

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Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.14	Cross-Section Pattern Sheets		Sheet	0	0	0	
5.15	Roadway Soil Survey Sheets		Sheet	0	0	0	
5.16	Cross Sections		EA	0	0	0	
5.17	Temporary Traffic Control Plan Sheets		Sheet	0	0	0	
5.18	Temporary Traffic Control Cross Section Sheets		EA	0	0	0	
5.19	Temporary Traffic Control Detail Sheets		Sheet	0	0	0	
5.20	Utility Adjustment Sheets		Sheet	0	0	0	
5.21	Selective Clearing and Grubbing Sheets						
5.21.1	Selective Clearing and Grubbing		Sheet	0	0	0	
5.21.2	Selective Clearing and Grubbing Details		Sheet	0	0	0	
5.22	Tree Disposition Sheets				'		
5.22.1	Tree Disposition Plan Sheets		Sheet	0	0	0	
5.22.2	Tree Disposition Plan Tables and Schedules		Sheet	0	0	0	
5.23	Project Control Sheets		Sheet	0	0	0	
5.24	Environmental Detail Sheets		Sheet	0	0	0	
5.25	Utility Verification Sheets (SUE Data)		Sheet	0	0	0	
5.26	Quality Assurance/Quality Control		LS	%	5%	20	
5.27	Supervision						
				5. Roadway	Plans Total	436	

SR 434 Roundabouts from W of Jetta Point to S of Artesia St - SA 2 Design Reanalysis 446491-1-38-01

Representing	Print Name	Signature / Date
Seminole County		
Kittelson & Associates, Inc.	Brandon W. Kelley, PE	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.1	Key Sheet		Sheet	0	0	0	
5.2	Typical Section Sheets						
5.2.1	Typical Sections		EA	0	0	0	
5.2.2	Typical Section Details		EA	0	0	0	
5.3	General Notes/Pay Item Notes		Sheet	0	0	0	
5.4	Project Layout		Sheet	0	0	0	
5.5	Plan/Profile Sheet		Sheet	0	0	0	
5.6	Profile Sheet		Sheet	0	0	0	
5.7	Plan Sheet		Sheet	18	3	54	6 Design Check Sheets per Roundabout: Fastest Path and 5 Design Truck Exhibits = 18 total
5.8	Special Profile		Sheet	0	0	0	
5.9	Back-of-Sidewalk Profile Sheet		Sheet	0	0	0	
5.10	Interchange Layout Sheet		Sheet	0	0	0	
5.11	Ramp Terminal Details (Plan View)		Sheet	0	0	0	
5.12	Intersection Layout Details		Sheet	0	0	0	
5.13	Special Details		EA	0	0	0	

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.14	Cross-Section Pattern Sheets		Sheet	0	0	0	
5.15	Roadway Soil Survey Sheets		Sheet	0	0	0	
5.16	Cross Sections		EA	0	0	0	
5.17	Temporary Traffic Control Plan Sheets		Sheet	0	0	0	
5.18	Temporary Traffic Control Cross Section Sheets		EA	0	0	0	
5.19	Temporary Traffic Control Detail Sheets		Sheet	0	0	0	
5.20	Utility Adjustment Sheets		Sheet	0	0	0	
5.21	Selective Clearing and Grubbing Sheets						
5.21.1	Selective Clearing and Grubbing		Sheet	0	0	0	
5.21.2	Selective Clearing and Grubbing Details		Sheet	0	0	0	
5.22	Tree Disposition Sheets			•			
5.22.1	Tree Disposition Plan Sheets		Sheet	0	0	0	
5.22.2	Tree Disposition Plan Tables and Schedules		Sheet	0	0	0	
5.23	Project Control Sheets		Sheet	0	0	0	
5.24	Environmental Detail Sheets		Sheet	0	0	0	
5.25	Utility Verification Sheets (SUE Data)		Sheet	0	0	0	
5.26	Quality Assurance/Quality Control		LS	%	5%	3	
5.27	Supervision		LS	%	5%	3	
				5. Roadway	Plans Total	60	

Estimator:

SR 434 Roundabouts from W of Jetta Point to S of Artesia St - SA 2 Design Reanalysis 446491-1-38-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name	Dustin Perkins	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.1	Drainage Map Hydrology	Per Map	12	5	60	Preliminary basin updates for check on potential profile changes and adjustments to basins. These are only draft updates to run draft calculation updates. (4 alternatives with basin hydrology for 3 maps each). Will be used for line and grade computations, hours adjusted to 5 hrs per map based on potential additional pond sites.
6a.2	Base Clearance Calculations	Per Location	0	0	0	N/A, it is anticipated base clearance will not be met in several locations. Preliminary underdrain analysis will be included to evaluate mitigation option for base clearance variation.
6a.3	Pond Siting Analysis and Report	Per Basin	11	8	88	Preliminary review of potential basin changes and conceptual evaluation of 3 additional pond sites if needed based on profile changes and hydraulic gradeline constraints. (1 alternatives with 2 basins and 3 alternative with 3 basins) for a total of 11 basins (1 x 2 + 3 x 3 = 11). Use 8 hrs per basin for re-computing treatment/attenuation needs to determine volumetric DHW and TW for line and grade computations.
6a.4	Design of Cross Drains	EA	0	0	0	No changes, design of offsite systems is complete and DHW's can be referenced for this effort.
6a.5	Design of Ditches	Per Ditch Mile	2.6	8	21	Review of offsite ditches for potential elimination based on alternative roadway profile changes. (4 alternatives, conceptual review of ditches for each at 2 hrs/mile) = 4(alternative) x 2.6(miles) x 2 (hrs/mile) = 21 hrs. No calculations, review of concepts only.
6a.6a	Design of Stormwater Management Facility (Offsite or Infield Pond)	EA	2	8	16	Baseflow evaluation for lowering of NWL for 2 already designed ponds, conceptual review of SJRWMD constraints for lowered water table and preliminary review of impacts to surrounding wetlands for population of matrix.
6a.6b	Incorporate Offsite Stormwater Management Facilities	EA	13	8	104	Review of offsite ponds draining through the corridor and potential impacts for 4 alternatives, review of downstream losses and consolidation of systems where feasible. (13 facilities @ 2 hrs each for 4 alternatives = 13 x 2 x 4 = 104 hrs)
6a.7	Design of Stormwater Management Facility (Roadside Treatment Swales and Linear Ponds)	Per Cell	0	0	0	
6a.8	Design of Floodplain Compensation	Per Floodplain Basin	1	8	8	Preliminary review of potential impacts/changes to floodplain impact/compensation based on 4 alternatives, no calculations only evaluation to determine feasibility and identification of potential issues with each alternative. (4 alternatives with 1 floodplain area at 2 hrs each) = 4 x 1 x 2 = 8 hrs
6a.9	Design of Storm Drains	EA	128	1	128	159 previously designed structures, preliminary review of storm drain system as designed for each alternative. No correction of inlet locations or spread analysis, only review of hydraulic gradelines and identification of potential issue areas for 4 alternatives. (159 inlets at 0.1 hrs/inlet for 4 alternatives = 159 (inlets) x 0.2 (hrs/inlet) x 4 (alternatives) = 127.2 hrs. These will be provided in line and grade computations to set minimum gutter elevations.
6a.10	Optional Culvert Material	EA	0	0	0	
6a.11	French Drain Systems	Per Cell	0	0	0	
6a.11.1	Existing French Drain Systems	Per Cell	0	0	0	
6a.12	Drainage Wells	EA	0	0	0	
6a.13	Drainage Design Documentation Report	LS	1	40	40	Drainage Memo for up to four (4) alternatives documenting alternative analysis of three (3) additional pond sites, changes in basin divides, offsite/onsite runoff collection systems. Memo shall discuss benefits and risks associated with each alternative.
6a.14	Bridge Hydraulic Report	EA	0	0	0	

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.15	Temporary Drainage Analysis	LS	0	0	0	
6a.16	Drainage Quantities for EQ Report	Drainage Structures	0	Calculated Hours 0	0	
6a.17	Cost Estimate	LS	0	0	0	
6a.18	Technical Special Provisions / Modified Special Provisions	LS	0	0	0	
6a.19	Hydroplaning Analysis	LS	0	0	0	
6a.20	Existing Permit Analysis	LS	1	0	0	
6a.21	Other Drainage Analysis	LS	1	40	40	Underdrain feasibility review for lowering of the profile. 8 potential outfall locations to be reviewed for ESHWE vs. roadway profile and conceptual underdrain elevations. 8 (outfall locations) x 5 (hrs/outfall location) = 40 hrs. Effort includes conceptual underdrain inverts to set minimum base elevations for sections of the roadway profile.
6a.22	Noise Barrier Evaluation	LS	1	0	0	
6a.23	Erosion Control Plan	Per Mile	0	0	0	
		Drainage A	nalysis Techn	ical Subtotal	505	
6a.24	Field Reviews	LS	1	0	0	
6a.25	Technical Meetings	LS	1	36	36	Seminole County, FDOT, and internal coordination meetings.
6a.26	Environmental Look-Around (ELA) Meeting	LS	1	0	0	
6a.27	Quality Assurance/Quality Control	LS	%	5%	25	
6a.28	Independent Peer Review	LS	%	0%	0	
6a.29	Supervision	LS	%	5%	25	
Drainage Analysis Nontechnical Subtotal				ical Subtotal	86	
6a.30	Coordination	LS	%	0%	0	Coordination included in technical meetings.
		•	Sa. Drainage A	nalysis Total	591	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Base Clearance Water Elevation	EA	0	0	0			0
Pond Siting	EA	0	0	0			0
Agency	EA	0	0	0			0
Local Governments (cities, counties)	EA	4	1.5	6	4 meetings with Seminole County		0
FDOT Drainage	EA	4	1.5	6	4 meetings with FDOT		0
Other Meetings	EA	16	1.5	24	Internal discipline coordination meetings		0
Subtotal Technical Meetings				36			0
Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3		
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task	3	
Total Meetings				36	Total Project Manager Meetings (carries to Tab 3)		0

Carries to 6a.25 Carries to 7ab 3

Estima	itor:			6b. Draina	ge Plans S	Staff Hours			SR 434 Roundabouts from W of Jetta Point to S of Artesia St - SA 2 Design Reanalysis 446491-1-38-01
	Representing				Signature / Date				
	FDOT District								
	Consultant Name				Dustin Perkins	s			
NOTE	: Signature Block is optional, per District prefere	nce							
Task	Task	Pr	oject Parame	ter		Staff	Hours		Documentation
No.	Таѕк	Description	Units	Complexity	Calculated	Department	Consultant	Negotiated	Provide documentation when negotiated hours differ from the calculated hours.
6b.1	Drainage Map (Including Interchanges)	Length (Miles)	6.80	Mid Range	164	0	164	0	11x17 Drainage Maps for 4 alternatives (1.7 miles per alternative), maps will reflect changes in basins, low point critical elevations, biological indicators, underdrain outfalls, trunklines and conceptual storm drain network, roadway profiles with critical elevations used to establish roadway profiles.
6b.2	Bridge Hydraulics Recommendation Sheets	Bridges	0		0	0	0	0	
6h 3	3 Drainage Structures	Drainage Structures	0		0	0	0	0	
00.0		Details	0		0	0	0	0	
	Lateral Ditches	Ditches	0	Standard	0	0	0	0	
6b.4		Bitorios	0	Complex	0	0	0	0	
		Cross Section Alignments	0		0	0	0	0	
		Ponds	0	Standard	0	0	0	0	
6b.5	Retention/Detention/Floodplain Compensation Ponds	Folius	0	Complex	0	0	0	0	
		Cross Section Alignments	0		0	0	0	0	
6b.6	Erosion Control Plan	Length (Miles)	0.00		0	0	0	0	
6b.7	SWPPP		0		0	0	0	0	
		Draina	ge Plans Tech	nical Subtotal	164	0	164	164	
6b.8	Quality Assurance/Quality Control	%	1	5%	8			8	
6b.9	Supervision	%	1	5%	8			8	
						6. Draina	ge Plans Total	180	

SR 434 Roundabouts from W of Jetta Point to S of Artesia St - SA 2 Design Reanalysis 446491-1-38-01

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/ Units	Total Hours	Comments
	Environmental Permits and Environmental Clear	rances				
8.1	Preliminary Project Research	LS	1	0	0	
	Permits					
8.2	Field Work					
8.2.1	Pond Site Alternatives	per pond site	1	8	8	review potential new pond sites
8.2.2	Establish Wetland Jurisdictional Lines and Assessments	LS	1	0	0	
8.2.3	Species Surveys	LS	1	0	0	
8.3	Agency Verification of Wetland Data	LS	1	0	0	
8.4	Complete And Submit All Required Permit Applications					
8.4.1	Complete and Submit All Required Wetland Permit Applications	LS	1	0	0	
8.4.2	Complete and Submit All Required Species Permit Applications	LS	1	0	0	
8.5	Coordinate and Review Dredge and Fill Sketches	LS	1	0	0	
8.6	Complete and Submit Documentation for Coordinati	on and/or US	CG Permit A	oplication		
8.6.1	Prepare and submit required documents for USCG coordination	LS	1	0	0	
8.6.2	Complete and submit USCG Bridge Application	LS	1	0	0	
8.7	Prepare Water Management District or Local Water Control District Right of Way Occupancy Permit Application	LS	1	0	0	
8.8	Prepare Coastal Construction Control Line (CCCL) Permit Application	LS	1	0	0	
8.9	Prepare USACE Section 408 Application to Alter a Civil Works Project	LS	1	0	0	
8.10	Compensatory Mitigation Plan	LS	1	0	0	
8.11	Mitigation Coordination and Meetings	LS	1	0	0	
8.12	Regulatory Agency Support	LS	1	0	0	

SA 2 SR 434_12-04-23_Scope and Fee.xlsx 8. Env. Permits and Clearances

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Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
	Environmental Clearances/Reevaluations					
8.13	Technical support to Department for Environmental consultant provides technical support only)	Clearances a	nd Reevaluat	ions (use whe	en	
8.13.1	NEPA or SEIR Reevaluation	LS	1	0	0	
8.13.2	Archaeological and Historical Resources	LS	1	0	0	
8.13.3	Wetland Impact Analysis	LS	1	0	0	
8.13.4	Essential Fish Habitat Impact Analysis	LS	1	0	0	
8.13.5	Protected Speices and Habitat Impact Analysis	LS	1	0	0	
8.14	Preparation of Environmental Clearances and Reeva documents associated with reevaluation)	luations (use	when consu	tant prepares	all	
8.14.1	NEPA or SEIR Reevaluation	LS	1	0	0	
8.14.2	Archaeological and Historical Resources	LS	1	0	0	
8.14.3	Wetland Impact Analysis	LS	1	0	0	
8.14.4	Essential Fish Habitat Impact Analysis	LS	1	0	0	
8.14.5	Protected Species and Habitat Impact Analysis	LS	1	0	0	
8.15	Other Environmental Permits	LS	1	0	0	
8.16	Contamination Impact Analysis	LS	1	0	0	
8.17	Asbestos Survey	LS	1	0	0	
Envi	ronmental Permits and Environmental Clearance	s/Reevaluat	ions Technic	cal Subtotal	8	
8.18	Technical Meetings	LS	1	0	0	Meetings are listed below
8.19	Quality Assurance/Quality Control	LS	%	0%	0	
8.20	Supervision	LS	%	0%	0	
Environmental Permits and Environmental Clearances Nontechnical Subtotal					0	
8.21	Coordination	LS	%	0%	0	
	8. Environmental Permits and Environmental Clearances Total					

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
WMD	EA	0	0	0			0
NMFS	EA	0	0	0			0
USACE	EA	0	0	0			0

Task No. Task	Units	No. of Units	Hours/ Units	Total Hours	Comments	
USCG	EA	0	0	0		0
USFWS	EA	0	0	0		0
FFWCC	EA	0	0	0		
FDOT	EA	0	0	0		
Other Meetings	EA	0	0	0		0
Subtotal Technical Meetings				0	Subtotal Project Manager Meetings	0
Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3	
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3	
Total Meetings				0	Total Project Manager Meetings (carries to Tab 3) 0	

Carries to 8.18 Carries to Tab 3

PROPOSED STAFFING FORM for SR 434 Roundabout Design - SA 2

Consultant Name: <u>AECOM Technical Services, Inc.</u>

Emp#	Name	Rate	Position	Average Rate	Multiplier	Loaded Rate
	John Metroka	\$77.90 Senio	or Engineer 2			
690034	Gary Foster	\$81.17 Senio	_			
	Alex Mousadi	\$95.12 Senio	or Engineer 2			
				\$84.73	2.7755	\$235.17
682297	Jan Everett	\$133.65 Chief	Engineer 2			
650443	Bruno Fiori	\$105.34 Chief	Engineer 2			
				\$119.50	2.7755	\$331.66
	Jeff Blazowski	\$108.17 Chief	Engineer 1			
				\$108.17	2.7755	\$300.23
685040	Marty Peate	\$105.72 Chief	Planner			
				\$105.72	2.7755	\$293.43
687502	Debbie Devivero	•	ract Coordinator			
	Shannon Negro	\$36.00 Cont	ract Coordinator			
				\$38.77	2.7755	\$107.61
669302	Samantha Forgas	\$50.55 Engir	neer 1			
682429	Grace Lozano	\$50.24 Engir	neer 1			
	John Chandler	\$51.20 Engir	neer 1			
				\$50.66	2.7755	\$140.62
656300	Kristine Prince	\$64.66 Engir	neer 2			
				\$64.66	2.7755	\$179.46
	Jake Rogalski	\$37.67 Engir	neering Intern			
	Elizabeth Sofsky	\$40.95 Engir	neering Intern			
				\$39.31	2.7755	\$109.10
	Daniela Alviz	\$32.21 Envir	onmental Specialist			
	Daniel Chomin-Varden	\$31.85 Envir	onmental Specialist			
				\$32.03	2.7755	\$88.90
	Pam Hartwick	\$39.20 GIS S	pecialist			
				\$39.20	2.7755	\$108.80
	John Roque	\$28.93 Land	scape Designer			
				\$28.93	2.7755	\$80.30
	Larissa Krinos	\$32.51 Planı	ner			
				\$32.51	2.7755	\$90.23
684629	Chris Rizzolo	\$96.20 Proje	ect Manager 3			
				\$96.20	2.7755	\$267.00
	Edgar Montanez	\$61.67 Senio	_			
683142	Jason Vincent	\$53.15 Senio	or Designer			
				\$57.41	2.7755	\$159.34

EXHIBIT C

Emp#	Name	Rate	Position	Average Rate	Multiplier	Loaded Rate
692635 E	Bill Liatsos	\$104.98 Ser	nior Engineer 1			
688687	Oustin Perkins	\$105.56 Ser	ior Engineer 1			
684036 N	Mike S. Phillips	\$67.11 Ser	ior Engineer 1			
				\$92.55	2.7755	\$256.87
684355 F	Robert Martini	\$44.95 Chi	ef Designer			
692147 (Glen Dvorovy	\$47.74 Chi	ef Designer			
				\$46.35	2.7755	\$128.63
F	Aleksa Kopanja	\$33.90 Eng	ineering Technician			
				\$33.90	2.7755	\$94.09
7	Гhang Le	\$37.41 Ser	ior Engineering Technician			
ŀ	Kaitlin Phillips	\$37.15 Ser	ior Engineering Technician			
				\$37.28	2.7755	\$103.47
(October Richey	\$43.33 Ser	ior Environmental Specialist			
703496 J	ay Burrell	\$50.29 Ser	ior Environmental Specialist			
				\$46.81	2.7755	\$129.92
660307 N	Mike Brown	\$54.84 Ser	ior Landscape Architect			
685825 [David Crawley	\$88.31 Ser	ior Landscape Architect			
				\$71.58	2.7755	\$198.66
685224 N	Megan McKinney	\$67.13 Ser	ior Planner			
688271 เ	_auren Brooks	\$64.19 Ser	ior Planner			
692830 A	Adam Purcell	\$58.03 Ser	ior Planner			
				\$63.12	2.7755	\$175.18
712539 (Grant Denty	\$58.86 Ser	ior Utility Coordinator			
				\$58.86	2.7755	\$163.37