

RESOLUTION 21-131

A RESOLUTION TO APPROVE A CONTRACT FOR PROFESSIONAL SERVICES WITH THE CORRADINO GROUP FOR INTERSECTION IMPROVEMENTS ANALYSIS

WHEREAS, the City of Spring Hill utilized The Corradino Group to assist with the traffic analysis for improvements on Port Royal Road at the intersection of Commonwealth Drive and Countess Lane extension; and

WHEREAS, the study shows the need for intersection improvements is warranted due to the proposed developments in the area; and

WHEREAS, The Corradino Group has submitted a Scope of Work and Fee Proposal for professional services to complete the Intersection Study and Conceptual Layouts in the amount of \$14,200.00; and

WHEREAS, the Scope of Work will include analysis of a roundabout and a signalized intersection to determine which improvement would accommodate future growth in the best interest of the City; and

WHEREAS, funding for the contract will be from budgeted funds obligated in the Impact Fees fund (124-43110-986); and

WHEREAS, City staff recommends approval of the contract for professional services with The Corradino Group for intersection improvements analysis on Port Royal Road in the not-to-exceed amount of \$14,200.00.

NOW, THEREFORE BE IT RESOLVED, the City of Spring Hill Board of Mayor and Aldermen:

1. Approve the contract attached hereto with The Corradino Group for intersection improvements analysis on Port Royal Road at the intersection of Commonwealth Drive and Countess Lane extension at a not-to-exceed amount of \$14,200.00.
2. Authorize the Mayor to sign the contract attached hereto.

Passed and Adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee on the 16th day of August, 2021.



Jim Hagaman, Mayor

ATTEST:



April Gbad, City Recorder

LEGAL FORM APPROVED:



Patrick Carter, City Attorney



REQUEST: *Approval of Resolution 21-131*
SUBMITTED BY: Missy Stahl, CIP Manager
DATE: August 16, 2021
RE: To approve contract for professional services with The Corradino Group for intersection improvements analysis and to authorize the Mayor to sign the contract
ATTACHMENTS: Contract

PURPOSE:

To approve Resolution 21-131 for a contract for professional services with The Corradino Group for intersection improvements analysis on Port Royal Road at Commonwealth Drive and Countess Lane extension and authorize the Mayor to execute the contract.

BACKGROUND:

The City of Spring Hill began discussions with the developers for each of the four corners of this intersection approximately five years ago. As the developments are nearer to being installed, extended meetings have been held to determine the best traffic mechanism to be implemented that will handle the increased traffic most efficiently, both now and in the future. The Corradino Group attended the meetings at the request of the City and prepared an operational evaluation for the intersection.

The potential improvements originally included a 4-way stop-controlled intersection, a signalized intersection or a roundabout. In the course of recent discussions, it has been determined a 4-way stop-controlled intersection is not a reasonable improvement. The Corradino Group has submitted a proposal to perform a detailed Intersection Study and Conceptual Layouts for both a signalized intersection and a roundabout to present to the City and the developers in this area to determine what would be the best improvement. The cost of the Scope of Work and Fee Proposal is for a not-to-exceed amount of \$14,200.00.

FINANCIAL IMPACT:

The contract would be funded from budgeted funds in the Impact Fees fund (124-43110-986).

STAFF RECOMMENDATION:

Staff recommends approval of Resolution 21-131 to approve the contract for professional services with The Corradino Group for intersection improvements analysis and to authorize the Mayor to sign the contract at a not-to-exceed cost of \$14,200.00.

THE CORRADINO GROUP, INC.

CORRADINO

ENGINEERS · PLANNERS · PROGRAM MANAGERS · ENVIRONMENTAL SCIENTISTS

August 2, 2021

Ms. Missy Stahl, CMFO
Senior Project Manager
City of Spring Hill
PO Box 789
Spring Hill, TN 37174

**Re: Scope of Work and Fee Proposal
Port Royal Road at Commonwealth Drive and Countess Lane Extension Intersection Study**

Dear Ms. Stahl:

Attached for your approval is our scope of work and lump sum fee proposal in the amount of \$14,200.00 to provide professional services for the additional work associated with the completion of the Intersection Study and Conceptual Layouts for Port Royal Road at Commonwealth Drive and Countess Lane Extension.

We are available at your discretion to further discuss and answer any questions the City may have concerning this information. We greatly appreciate this opportunity and look forward to working with you and the City.

Sincerely,
THE CORRADINO GROUP, INC.



Gerald G. Bolden, PE, PTOE
Vice President

ACCEPTED BY:


Signature

James A. Hagaman
Printed Name and Title

City of Spring Hill
Agency

August 16, 2021
Date

EXHIBIT A

SCOPE OF SERVICES

June 15, 2021 (Amended July 23, 2021)

PORT ROYAL ROAD AT COMMONWEALTH DRIVE AND COUNTESS LANE EXTENSION INTERSECTION STUDY

The Corradino Group (Corradino) understands the following item(s) to be included within the scope of work for the referenced project:

As the City of Spring Hill continues to grow, the transportation infrastructure will continue to be an area of concern and necessitate study and improvements. As such, the current Port Royal Road corridor between Duplex Road and SR-396 (Saturn Parkway) continues to see extensive growth. The intersection of Port Royal Road and Commonwealth Drive has become an area of specific concern due to the proposed extension and connection of Countess Lane, which will create a fourth leg to the existing intersection.

Previous studies have been completed for this intersection and have identified the need for intersection operational improvements based on projected traffic conditions and made recommendations for these improvements. These potential recommended improvements have ranged from stop-controlled intersection to a multi-lane roundabout. Thus, the City of Spring Hill requested Corradino to evaluate the potential improvement alternatives and provide a summary of the evaluation.

NOTE: The amended/additional scope and language is underlined and italicized.

Intersection Evaluation

Corradino will prepare an intersection operational evaluation for the intersection of Port Royal Road at Commonwealth Drive and Countess Lane Extension. The general tasks include data collection, operations evaluation (stop controlled vs. signalization vs. roundabout), document preparation, and coordination with the City and development team(s). A detailed scope of services is provided below.

On June 30, 2021, a project team meeting, with the City staff, developers and Corradino was held at the Public Works Building. The information from the initial scope of work was presented at the meeting. Generally, the recommended alternative by Corradino was for the intersection to be designed as a roundabout. The open discussion presented some additional questions to be answered prior to making a final determination of the intersection configuration. Additionally, it was noted that the future widening of Port Royal should be a consideration in the overall layout of the intersection. The questions to be addressed are:

- 1. What is the ultimate lane configuration, for the roundabout and signalized intersection, to accommodate a 20-year traffic design horizon?*
- 2. What are the right-of-way requirements for each of the ultimate buildouts?*
- 3. What is the estimated construction cost for the ultimate buildouts?*

The City requested Corradino to address these questions by developing additional traffic projections and completing a preliminary conceptual layout for the ultimate buildout for both the signalized intersection and the roundabout.

Task 1 Coordination & Project Management

- 1.1 Corradino will coordinate with City staff and development team(s) throughout the development of the project. This includes an initial project meeting (held on May 20, 2021); up to two (2) project meetings with development team(s); and one (1) BOMA/TAC meeting;
- 1.2 Corradino will prepare and submit invoices and project status reports monthly to the City's PM.

Task 2: Data Collection/Traffic Development

- 2.1 Corradino will gather traffic data from the City (counts completed May 26, 2021), collect roadway lanage; posted speed limits; traffic observations; previous studies and future development studies.
- 2.2 Corradino will utilize the traffic data and future development to develop future traffic projections for the intersection. The traffic projections will be developed for 2021; 2026; and 2031 to use in the analysis.
- 2.3 Due to the lack of available traffic impact studies for the ongoing and proposed developments in the project area, Corradino will develop trip generation and trip distribution estimates for the developments without sufficient traffic data. This information will be developed on the best information provided by the City on each development, such as final plats, development master plans, etc.
- 2.4 As directed by the City staff, Corradino will develop longer term traffic projections (2041) for the intersection to be utilized for the ultimate buildout concept.
- 2.5 Corradino will collect GIS, survey and development plans electronic data from the developers/owners on each quadrant of the intersection. Once all data is received, Corradino will develop a base working file to be used for the concept plan layout of the intersection.

Task 3: Operational Analysis

- 3.1 Corradino will utilize the traffic projections developed in Task 2, to complete operational evaluation of the intersection as a four-way stop controlled intersection, signalized intersection, and a roundabout.
- 3.2 Corradino will utilize the 2041 traffic projections from subtask 2.4 to analyze the intersection and develop the ultimate build scenario for both he signalized intersection and the roundabout.

Task 4: Conceptual Layout & Estimate

- 4.1 Corradino will prepare conceptual layout of the ultimate build for the signalized intersection and roundabout. The layout will show proposed lanage, general geometric alignment, and approximate right-of-way limits. Corradino will provide one-time minor adjustments/revisions to the layouts based on review from the City. Revisions to the overall alignment of the mainline, addition or removal of lanes, or shifting the centroid of the roundabout would not be considered minor adjustments/revisions.
- 4.2 Corradino will prepare estimated construction cost for each of the conceptual layouts.

Task 5: Project Documentation

- 5.1 Corradino will prepare a draft Technical Memorandum detailing the existing conditions, traffic projections, evaluation and conclusion/recommendation;
- 5.2 Corradino will submit the draft Technical Memorandum to the City for review and comment;
- 5.3 Once comments are received, the draft Memorandum will be revised and a final document submitted to the City.

Additional Services

Services not specifically mentioned, outside the project limits, or beyond the scope of services in Task 1-5 can be negotiated as additional services based on the hourly rate schedule for The Corradino Group.