

RESOLUTION NO. 23-R-120

A RESOLUTION BY THE CITY COUNCIL OF THE CITY OF SCHERTZ, TEXAS AUTHORIZING EXPEDITURES WITH KIMLEY-HORN & ASSOCIATES, INC., TOTALING NO MORE THAN \$380,000, FOR PROFESSIONAL ENGINEERING-RELATED SERVICES ON THE 2024 STREET RESURFACIGN AND REHABILITATION PROJECT, AND OTHER MATTERS IN CONNECTION THEREWITH

WHEREAS, the City staff of the City of Schertz (the “City”) has determined that the City requires professional services relating to engineering and design for the 2023 Street Resurfacing and Rehabilitation Project; and

WHEREAS, City staff has determined that Kimley-Horn & Associates, Inc. is uniquely qualified to provide such services for the City; and

WHEREAS, Kimley-Horn & Associates, Inc. is an approved On-Call Engineering Firm for the City of Schertz; and

WHEREAS, pursuant to Section 252.022(a)(4), the City is not required to seek bids or proposals with respect to a procurement for personal, professional, or planning purposes; and

WHEREAS, the City Council has determined that it is in the best interest of the City to contract with Kimley-Horn & Associates, Inc. pursuant to the On-Call Task Order Agreement attached hereto as Exhibit A (the “Agreement”) up to a maximum total aggregate amount of \$380,000.

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SCHERTZ, TEXAS THAT:

Section 1. The City Council hereby authorizes the City Manager to execute and deliver the Task Order Agreement with Kimley-Horn & Associates, Inc. in accordance with their approved Master Agreement in substantially the form set forth on Exhibit A in the amount of \$358,425 and authorize the City Manager to execute and deliver the Task Order in a not to exceed total aggregate amount of \$380,000.

Section 2. The recitals contained in the preamble hereof are hereby found to be true, and such recitals are hereby made a part of this Resolution for all purposes and are adopted as a part of the judgment and findings of the City Council.

Section 3. All resolutions, or parts thereof, which are in conflict or inconsistent with any provision of this Resolution are hereby repealed to the extent of such conflict, and the provisions of this Resolution shall be and remain controlling as to the matters resolved herein.

Section 4. This Resolution shall be construed and enforced in accordance with the laws of the State of Texas and the United States of America.

Section 5. If any provision of this Resolution or the application thereof to any person or circumstance shall be held to be invalid, the remainder of this Resolution and the application of such provision to other persons and circumstances shall nevertheless be valid, and the City Council hereby declares that this Resolution would have been enacted without such invalid provision.

Section 6. It is officially found, determined, and declared that the meeting at which this Resolution is adopted was open to the public and public notice of the time, place, and subject matter of the public business to be considered at such meeting, including this Resolution, was given, all as required by Chapter 551, Texas Government Code, as amended.

Section 7. This Resolution shall be in force and effect from and after its final passage, and it is so resolved.

PASSED AND ADOPTED, this ____ day of _____, 2023.

CITY OF SCHERTZ, TEXAS

Ralph Gutierrez, Mayor

ATTEST:

Sheila Edmondson, City Secretary

(CITY SEAL)

EXHIBIT A

TASK ORDER NO. 10 SERVICES AGREEMENT

TASK ORDER FORM

This is Task Order
No. 10, consisting of
29 pages.

Task Order

[NOTE TO USER: Modify as to scope, compensation, schedule, and other key items.]

In accordance with Paragraph 1.01 of the Agreement Between Owner and Engineer for Professional Services – Task Order Edition, dated [October 17, 2019] ("Agreement"), Owner and Engineer agree as follows:

1. Background Data

- a. Effective Date of Task Order:
- b. Owner: The City of Schertz
- c. Engineer: Kimley-Horn & Associates, Inc.
- d. Specific Project (title): **2024 Roadway Improvements**
- e. Specific Project (description): The work planned for this task order is associated with the City's Street Preservation & Maintenance (SPAM) Program, and will include development of separate construction contracts for slurry/micro seal and street rehabilitation projects. In total, Kimley-Horn will assess approximately 57 streets, identify pavement and concrete flatwork repairs to improve street functionality, develop overall slurry/micro seal and rehabilitation quantities and construction cost estimates per street, prepare limited construction drawings and contract documents, assist the City with project advertisement and Contractor selection, and provide construction phase services.

2. Services of Engineer

- A. The specific services to be provided or furnished by Engineer under this Task Order are:
 - as follows: [Reference Engineer scope and fee proposal dated November 27, 2023]
- B. Resident Project Representative (RPR) Services: Does Not Apply
- C. Designing to a Construction Cost Limit: Does Not Apply
- D. Other Services: None
- E. All of the services included above comprise Basic Services for purposes of Engineer's compensation under this Task Order.

2. Additional Services

- A. Additional Services that may be authorized or necessary under this Task Order are:

Task Order Form

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- as follows: [There are currently no additional services listed in the attached scope and fee proposal dated November 27, 2023 that includes an assigned fee. However, additional services that may apply to this task order are items that differ from assumptions made by Engineer, services listed as Exclusions that may be requested by the City, or any other service requested by the City that is not specifically listed in the basic scope of services within this proposal.]

3. Owner's Responsibilities

Owner shall have those responsibilities set forth in Article 2 of the Agreement and in Exhibit B, subject to the following: *[No additions or modifications to Exhibit B are required for this project]*

4. Task Order Schedule

In addition to any schedule provisions provided in Exhibit A or elsewhere, the parties shall meet the following schedule:

The following schedule is proposed for this project, assuming a Notice to Proceed of December 11, 2023:

Notice to Proceed – December 11, 2023

Field Evaluation and Initial OPCC Development – December 11, 2023 to February 6, 2024 (60 days)

City Interim QC – February 7, 2023 to February 13, 2024 (7 days)

Develop 70% Plans and Contract Documents – February 14, 2024 to March 28, 2024 (45 days)

City Interim QC – March 29, 2023 to April 4, 2024 (7 days)

Finalize Construction Drawings & Contract Documents – April 5, 2024 to April 19, 2024 (15 days)

Project Bid Phase – April 19, 2024 to May 17, 2024 (30 days)

Construction Phase – Estimated at 6 months

Party	Action	Schedule
Engineer	Furnish [N/A] review copies of the Report and other Study and Report Phase deliverables to Owner.	Within [N/A] days of the Effective Date of the Task Order.
Owner	Submit comments regarding Report and other Study and Report Phase deliverables to Engineer.	Within [N/A] days of the receipt of Report and other Study and Report Phase deliverables from Engineer.
Engineer	Furnish [N/A] copies of the revised Report and other Study and Report Phase deliverables to Owner.	Within [N/A] days of the receipt of Owner's comments regarding the Report and other Study and Report Phase deliverables.
Engineer	Furnish [pdf] copies of the Preliminary Design Phase documents,	Within [60] days of Owner's authorization to proceed with Preliminary Design Phase

	opinion of probable Construction Cost, and other Preliminary Design Phase deliverables to Owner.	services.
Owner	Submit comments regarding Preliminary Design Phase documents, opinion of probable Construction Cost, and other Preliminary Design Phase deliverables to Engineer.	Within [7] days of the receipt of Preliminary Design Phase documents, opinion of probable Construction Cost, and other Preliminary Design Phase deliverables from Engineer.
Engineer	Furnish [pdf] copies of the 70% Design Phase documents, opinion of probable Construction Cost, and other Preliminary Design Phase deliverables to Owner.	Within [45] days of the receipt of Owner's comments regarding the 70% Design Phase documents, opinion of probable Construction Cost, and other Preliminary Design Phase deliverables.
Owner	Submit comments regarding Preliminary Design Phase documents, opinion of probable Construction Cost, and other Preliminary Design Phase deliverables to Engineer.	Within [7] days of the receipt of 70% Design Phase documents, opinion of probable Construction Cost, and other Preliminary Design Phase deliverables from Engineer.
Engineer	Furnish [pdf and 5] copies of the final Drawings and Specifications, assembled drafts of other Construction Contract Documents, the draft bidding-related documents (or requests for proposals or other construction procurement documents), and any other Final Design Phase deliverables, to Owner.	Within [15] days of Owner's authorization to proceed with Final Design Phaseservices.
Owner	Submit comments and instructions regarding the final Drawings and Specifications, assembled drafts of other Construction Contract Documents, the draft bidding-related documents (or requests for proposals or other construction procurement documents), and any other Final Design Phase deliverables, to Engineer.	Within [N/A] days of the receipt of the final Drawings and Specifications, assembled drafts of other Construction Contract Documents, the draft bidding-related documents (or requests for proposals or other construction procurement documents), and any other Final Design Phase deliverables from Engineer.
Engineer	Furnish [N/A] copies of the revised final Drawings and Specifications, assembled Construction Contract Documents, bidding-related documents (or requests for proposals or other construction procurement documents), and any other Final Design Phase deliverables, to Owner.	Within [N/A] days of the receipt of Owner's comments and instructions regarding the final Drawings and Specifications, assembled drafts of other Construction Contract Documents, the draft bidding-related documents (or requests for proposals or other construction procurement documents), and any other Final Design Phase deliverables

5. Payments to Engineer

Task Order Form

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 and American Society of Civil Engineers. All rights reserved.

A. Owner shall pay Engineer for services rendered under this Task Order as follows:

Task	Description of Service	Amount	Basis of Compensation
Task A - Street Preservation Projects			
BASIC SERVICES			
1A	Project Management	\$ 15,030.00	[Lump Sum]
2A	Field Evaluation and Initial OPCC Development	\$ 95,345.00	[Lump Sum]
3A	Street Preservation Plans and Contract Documents	\$ 51,495.00	[Lump Sum]
4A	Final Plans and Bid Phase Services	\$ 14,605.00	[Lump Sum]
5A	Construction Phase Services	\$ 18,990.00	[Lump Sum]
6A	Reimbursable Project Expenses	\$ 2,750.00	[Hourly]
Total Task A (Basic Services)		\$ 198,215.00	
Task B - Street Rehabilitation Projects			
BASIC SERVICES			
1B	Project Management	\$ 10,225.00	[Lump Sum]
2B	Geotechnical Engineering Services	\$ 12,370.00	[Lump Sum]
3B	Field Evaluation and Initial OPCC Development	\$ 68,185.00	[Lump Sum]
4B	Street Rehabilitation Plans and Contract Documents	\$ 35,315.00	[Lump Sum]
5B	Final Plans and Bid Phase Services	\$ 12,545.00	[Lump Sum]
6B	Construction Phase Services	\$ 20,070.00	[Lump Sum]
7B	Reimbursable Project Expenses	\$ 1,500.00	[Hourly]
Total Task B (Basic Services)		\$ 160,210.00	
TOTAL COMPENSATION (TASK A & B)		\$ 358,425.00	

*Based on a [6] - month continuous construction period.

Compensation items and totals based in whole or in part on Hourly Rates or Direct Labor are estimates only. Lump sum amounts and estimated totals included in the breakdown by phases incorporate Engineer's labor, overhead, profit, reimbursable expenses (if any), and Consultants' charges, if any. For lump sum items, Engineer may alter the distribution of compensation between individual phases (line items) to be consistent with services actually rendered, but shall not exceed the total lump sum compensation amount unless approved in writing by the Owner.

B. The terms of payment are set forth in Article 4 of the Agreement and in the applicable governing provisions of Exhibit C.

6. Consultants retained as of the Effective Date of the Task Order: Kimley-Horn and Associates, Inc.

7. Other Modifications to Agreement and Exhibits:

[Scope associated with this task order is included as an attachment to this task order form, dated November 27, 2023.]

8. Attachments: Engineer scope and fee proposal (November 27, 2023)

Task Order Form

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9. Other Documents Incorporated by Reference: None

10. Terms and Conditions

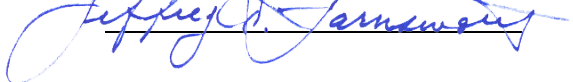
Execution of this Task Order by Owner and Engineer shall make it subject to the terms and conditions of the Agreement (as modified above), which Agreement is incorporated by this reference. Engineer is authorized to begin performance upon its receipt of a copy of this Task Order signed by Owner.

The Effective Date of this Task Order is [_____].

OWNER:

ENGINEER:

By: _____

By: 

Print Name: Steve Williams, CMA-CM, MPA, CGFO

Print Name: Jeffrey A. Farnsworth, PE

Title: City Manager

Title: Asst. Secretary

Engineer License or Firm's
Certificate No. (if required): F-928
State of: Texas

DESIGNATED REPRESENTATIVE FOR TASK ORDER:

DESIGNATED REPRESENTATIVE FOR TASK ORDER:

Name: Kathryn Woodlee, P.E.

Name: Stephen J. Aniol, PE

Title: City Engineer

Title: Sr. Project Manager

Address: 11 Commercial Place, Schertz, TX 78154

Address: 10101 Reunion Place, Ste. 400, San Antonio, TX 78216

E-Mail
Address: kwoodlee@schertz.com

E-Mail
Address: stephen.aniol@kimley-horn.com

Phone: 210-619-1823

Phone: 210-321-3404



November 27, 2023

John Nowak, PE
Project Manager
City of Schertz - Engineering
10 Commercial Place
Schertz, Texas 78154

**RE: 2024 Roadway Improvements Preservation and Rehabilitation Projects
Scope and Fee Proposal**

Dear Mr. Nowak:

Kimley-Horn is pleased to submit this scope and fee proposal for professional services for the 2024 Roadway Improvements project, which consists of City-wide street preservation and rehabilitation projects associated with the Street Preservation & Maintenance (SPAM) Program. The proposal will be split into the following tasks:

- Task A – Street Preservation Projects
- Task B – Street Rehabilitation Projects

PROJECT UNDERSTANDING

Per correspondence between the City and Kimley-Horn, the goal of this project is to use slurry seal and microsurfacing for streets listed under the preservation category and cement or asphalt emulsion for street rehabilitation projects. There are currently 39 confirmed streets planned for slurry seal, 1 for microsurfacing and 14 streets for street rehabilitation. As discussed with the City we have also accounted for an additional subdivision of approximately 5 streets to be added to the street preservation list. These additional streets will be determined by the City at a later date. In total, this amounts to 54 confirmed streets that are spread throughout the City, totaling over 57,000 linear feet or approximately 10.8 miles. Each application type, preservation (slurry seal and micro surface) and rehabilitation, will be divided into separate contracts and then bid as separate construction contracts utilizing the Request for Competitive Sealed Proposal (RFCSP) contract method. Kimley-Horn will provide construction phase administration services to assist the City with overall support and documenting improvements are being constructed in accordance with the approved plans and specifications.

SCOPE OF SERVICES

The slurry seal and microsurface application will be utilized for street preservation and will include the completion of necessary structural pavement repairs (base repairs) in advance of placement of the seal application. The street rehabilitation application will be utilized for streets in poorer condition, in which the existing pavement will be recycled and mixed with cement or emulsion, recompact and graded to drain, and a new surface course installed. Pavement cores will be obtained by a geotechnical engineer as a sub-consultant to Kimley-Horn. These pavement cores will confirm the existing pavement section depth and characteristics and that there is suitable material in place to perform the necessary mixing application. The geotechnical engineer will confirm the appropriate material to mix with the existing pavement section and the ratio of material. It is assumed that either cement or emulsion will be utilized as the mixing material. Based on previous experience with street preservation and rehabilitation projects and the current condition of streets included in this program, Kimley-Horn anticipates some flatwork (concrete curb, sidewalks, and driveways) will require replacement.

Kimley-Horn will complete site visits for all streets to verify and document existing condition and obtain field measurements for pavement repairs and flatwork removal/replacement limits. These measurements will be utilized to populate approximate construction cost estimates and develop aerial based schematic drawings to illustrate proposed improvements. Improvements shown on schematics will be approximate with dimensions listed and will provide a general idea of proposed location. The contractor will be responsible for confirming actual locations with Engineer and City PM prior to construction.

A limited set of construction drawings will be developed to convey repair locations, quantities and proposed improvements. With the preservation and rehabilitation projects being issued under separate construction contracts, a separate construction drawings and specifications package will be developed for each application type. It is Kimley-horn's intent to combine the slurry seal and microsurface into a single construction contract.

The following tasks outline the detailed scope of services to be completed by Kimley-Horn for this project. Also attached with this proposal is a project work plan that details out the tasks to be performed and expected level of effort.

TASK A – STREET PRESERVATION PROJECTS

Task 1A: Project Management

1. Daily project management/design team coordination
2. Monthly financials and project invoicing, based on an estimated 10-month project schedule
3. Internal project kickoff meeting
4. General coordination with City Project Manager

Task 2A: Field Evaluation and Initial OPCC Development

1. Conduct field evaluation of 43 streets to document existing conditions and obtain field measurements of needed pavement repairs
2. Download site visit photos & documentation
3. Prepare quantity takeoffs for each street to assist with budgeting purposes
4. Develop OPCC for each street
5. Conduct Schertz Parkway field evaluation to document existing conditions and obtain field measurements of needed pavement repairs
6. Prepare Schertz Parkway quantity takeoff
7. Develop Schertz Parkway OPCC (includes striping quantities)
8. Develop pavement repair exhibits
 - 8.1. Exhibits will be aerial schematic based at a 1" to 50' scale. Pavement repair and necessary flatwork replacement limits and dimensions will be included.
9. QA/QC repair areas and OPCC for each street
10. Prepare submittal package of draft repair exhibits and OPCCs and submit to City
11. Conduct site visits with City Project Manager to review recommended pavement and concrete repairs

Task 3A: Street Preservation Plans and Contract Documents

1. Conduct site visits to finalize repair areas. Will include review of City comments.
2. Conduct site visit to finalize repair areas on Schertz Pkwy
3. Finalize schematic exhibits for pavement and concrete repairs
4. Finalize quantities and OPCC for each street and the overall program

5. Develop cover sheet/index of sheets
6. Develop general and supplemental notes sheets for preservation projects
 - 6.1. The intent of this task is to utilize notes completed under the 2020 SPAM Resurfacing Project and make minor adjustments to fit this proposed contract.
7. Develop master quantity summary sheet
8. Develop subdivision street list and location sheets (8 subdivisions)
9. Develop individual subdivision quantity summary sheets (8 subdivisions)
10. Develop base repair details and sheets
11. Prepare typical section and grading notes for Aranda Lane
 - 11.1. Detailed plans are not planned for Aranda Lane. A typical section will be developed to convey the proposed scope of work to the Contractor and any edge construction that is needed to maintain a consistent road width will be noted on the plans
12. Incorporate relevant construction details and standards
13. Coordinate with Purchasing Department for contract development
14. Prepare Contract Documents Package to include the following:
15. Prepare table of contents and invitation to bidders document
16. Prepare bid schedule
17. Prepare supplement conditions (includes governing specs, special specs, supplemental specs & special provisions)
18. Prepare Owner and Contractor agreement
19. Assemble contract documents & specifications
20. Internal QC/QA 70% submittal
21. Prepare 70% submittal package to include plans and specifications and submit to the City for review

Task 4A: Final Plans and Bid Phase Services

1. Finalize plans and specifications addressing the City's final comments
 - 1.1. It is assumed that comments will be limited to the general notes, subdivision maps, quantity sheets and construction standards. Pavement repair schematics and quantities will be finalized at the conclusion of the 70% design phase
2. Finalize contract documents package
3. Assist City with project advertising
4. Prepare agenda and attend pre-bid meeting
5. Prepare pre-bid meeting notes
6. Prepare and issue addenda
7. Attend bid opening
8. Review Contractor qualifications and evaluate submitted bids
9. Prepare bid tabulation and low bid comparison with Engineer's OPCC
10. Assist City with bid negotiations as needed
11. Prepare contract award recommendation letter

Task 5A: Construction Phase Services

1. Attend pre-construction meeting
2. Material submittal reviews
3. Conduct construction site visits and report accordingly (est. 6 months, two x monthly, 1 report per month)
4. Review and respond to Contractor change order proposal (est. 2 proposals)

Task 6A: Reimbursable Project Expenses

1. Field review & design/construction site visits*
2. Marking paint and measuring equipment (design phase)

*Mileage to be reimbursed based on the 2023 standard business mileage rate of 65.5 cents per mile.

TASK B – STREET REHABILITATION PROJECTS

Task 1B: Project Management

1. Daily project management/design team coordination
2. Monthly financials and project invoicing, based on an estimated 10-month project schedule
3. General coordination with City project manager

Task 2B: Geotechnical Engineering Services

1. Geotechnical Engineering Services (Terracon)
 - Field exploration including boring and pavement cores. A summary is provided below:

Number of Borings	Planned Boring Depth (feet) ¹	Number of Pavement Cores	Planned Location
1 (A-1)	10	7 (C-1 thru C-7)	Maple Drive
---	---	2 (D-1 and D-2)	Dove Meadows Neighborhood
---	---	5 (E-1 thru E-5)	Robin Hood Way
---	---	4 (F-1 thru F-4)	St. Andrews

- Laboratory testing
 - Develop geotechnical engineering report
2. Subcontract management
 3. Coordinate pavement boring and coring plan and drilling operations
 4. Review boring logs and draft engineering report

Task 3B: Field Evaluation and Initial OPCC Development

The following streets are considered for street rehabilitation:

Street	Subdivision	From	To	Length (ft)
Maple Drive	Maple Drive	Oak Street	Colony Drive	3600
St. Andrews	The Ridge at Scenic Hills	Country Club	Pebble Beach	900
Robin Hood Way	Schertz Forest	Cul-De-Sac	Sherlock Lane	1560
Sherlock Lane	Schertz Forest	Robin Hood Way	Nottingshire	730
Nottingshire	Schertz Forest	Sherlock Lane	Ware-Seguín Road	1070
Dove Meadows	Silvertree	Borgfeld Road	Mourning Dove	175
Dove Meadows	Silvertree	Mourning Dove	Silvertree Boulevard	775
Mourning Dove	Silvertree	Dove Meadows	Cul-De-Sac	375
White Wing	Silvertree	Dove Meadows	Cul-De-Sac	370
Grey Feather	Silvertree	Dove Meadows	Cul-De-Sac	400
Silvertree Boulevard	Silvertree	Dove Meadows	Cul-De-Sac	430
Silvertree Boulevard	Silvertree	Dove Meadows	FM 3009	780
Idlewood	Silvertree	Silvertree Boulevard	Cul-De-Sac	360
Spicewood	Silvertree	Greenwood	Cul-De-Sac	300

1. Conduct site visits to review existing condition of streets and identify improvements required to improve gutter line profile
 - 1.1. 14 rehab streets for a total of 24 sheets at 50 scale
 - 1.2. Improvements may include concrete curb, sidewalk driveway replacement, valve box and manhole adjustments, topsoil and sodding, and irrigation head adjustment
2. Download site visit photos & field work documentation
3. Prepare quantity takeoffs for each street to assist with budgeting purposes
4. Develop OPCC for each street
5. Develop plan view aerial schematics that illustrate recommended improvements noted in Task 3B
 - 1.1.2
6. QA/QC schematics and OPCC for each street
7. Prepare submittal package of draft schematics and OPCCs and submit to City
8. Conduct site visits with City Project Manager to review recommended improvements

Task 4B: Street Rehabilitation Plans and Contract Documents

1. Finalize schematics including addressing City comments
2. Finalize quantities and OPCC for each street and the overall program
3. Develop cover sheet/index of sheets
4. Develop general and supplemental notes sheets for rehabilitation projects
 - 4.1. Construction notes from previous rehabilitation program will be utilized as a starting point.
Kimley-Horn will review and recommend necessary edits
5. Develop master quantity summary sheet
6. Develop subdivision street list and location sheets (4 subdivisions)
7. Develop individual subdivision quantity summary sheets (4 subdivisions)
8. Develop rehabilitation details and sheets
9. Incorporate relevant construction details and standards
10. Coordination with Purchasing Department for contract development
11. Prepare Contracts Document Package to include the following:
12. Prepare table of contents and invitation to bidders document
13. Prepare bid schedule
14. Prepare supplement conditions (includes governing specs, special specs, supplemental specs & special provisions)
15. Prepare Owner and Contractor agreement
16. Assemble contract documents & specifications
17. QC/QA 70% submittal
18. Prepare 70% submittal package to include plans and specifications and submit to the City for review

Task 5B: Final Plans and Bid Phase Services

1. Finalize plans and specifications addressing the City's final comments
2. Finalize contract documents package
3. Assist City with project advertising
4. Prepare agenda and attend pre-bid meeting
5. Prepare pre-bid meeting notes
6. Prepare and issue addenda
7. Attend bid opening
8. Review Contractor qualifications and evaluate submitted bids

9. Prepare bid tabulation and low bid comparison with Engineer's OPCC
10. Assist City with bid negotiations as needed
11. Prepare contract award recommendation letter

Task 6B: Construction Phase Services

1. Attend pre-construction meeting
2. Material submittal reviews
3. Conduct construction site visits and report accordingly (est. 6 months, two x monthly, 1 report per month)
4. Review and respond to Contractor change order proposal (est. 2 proposals)

Task 7B: Reimbursable Project Expenses

1. Field review & design/construction site visits*

*Mileage to be reimbursed based on the 2023 standard business mileage rate of 65.5 cents per mile.

ASSUMPTIONS AND EXCLUSIONS

The following items list assumptions made and exclusions that serve as a basis for development of the above referenced scope of work and proposed fee included in the attached project work plan:

ASSUMPTIONS

- TxDOT permits will not be required for this project.
- Contractor will provide necessary SWPPP and TCP design drawings, if required by a permitting agency
- Material testing and inspection services will be completed by the City.
- A total project schedule of 10-months is anticipated for both contracts, inclusive of a 6-month construction schedule.
- RFI responses for preservation and rehabilitation operations will be coordinated during bi-weekly site visits.
- Repair areas for preservation and rehabilitation schematics will be finalized during the 70% design phase.

EXCLUSIONS

The following tasks have been excluded from the basic scope services and requested design fee, but can be completed by Kimley-Horn as an additional service should the City need that service.

- Data collection not including geotechnical engineering services noted in base scope of services
- Detailed design drawings. It is assumed that any necessary repairs will be coordinated with the City and the Contractor during construction. In the event substantial repairs are required, Kimley-Horn will notify the City for further direction.
- Design milestones in addition to what is proposed for this project
- Additional round of comments to what is specified.
- Monthly project meetings during construction phase
- Attend substantial completion walk & issue punch list.
- Attend final completion walk & issue Notice of Acceptability of Work.
- Resident Project Representative (RPR)
- Any other services not listed in the basic scope of services or project work plan.

Relating to construction phase services for both tasks, Kimley-Horn will make site visits in accordance with proposed basic scope of work to observe the progress of the work. Such observations will not be exhaustive or extend to every aspect of Contractor's work. Observations will be limited to spot checking, selective measurement, and similar methods of general observation. Based on information obtained during site visits, Kimley-Horn will evaluate whether Contractor's work is generally proceeding in accordance with the Contract Documents. Kimley-Horn will keep the City informed of the general progress of the work.

Additionally, Kimley-Horn will not supervise, direct, or have control over Contractor's work, nor shall Kimley-Horn have authority to stop the Work or have responsibility for the means, methods, techniques, equipment choice and usage, schedules, or procedures of construction selected by Contractor, for safety programs incident to Contractor's work, or for any failure of Contractor to comply with any laws. Kimley-Horn does not guarantee the performance of any Contractor and has no responsibility for Contractor's failure to perform its work in accordance with the Contract Documents.

SCHEDULE

Upon approval by the City staff and Council, Kimley-Horn will prepare and submit a design schedule for both tasks with an emphasis on the City's desirable construction period. Kimley-Horn will also coordinate with the City to determine an approximate bid date for both tasks.

Construction phase services proposed for both tasks are based on durations identified in the Assumptions section above. Per previous coordination with the City, daily coordination with the Contractor will be handled internally by City staff, so the expected services Kimley-Horn will provide during the construction phase are limited to the scope outlined above. Should construction exceed the identified durations due to conditions beyond our control, Kimley-Horn will coordinate with the City to develop a path forward and submit any necessary additional service proposals to continue to support the City during the construction phase.

FEE AND BILLING

In accordance with the below fee summary table, Kimley-Horn will perform the above outlined scope of services, including subconsultant services and project expenses, for a lump sum fee not to exceed **\$358,425**. As noted above an attachment is included documenting the proposed tasks to be completed and planned level of effort.

Task	Description of Service	Amount	Basis of Compensation
	Task A - Street Preservation Projects		
	BASIC SERVICES		
1A	Project Management	\$ 15,030.00	[Lump Sum]
2A	Field Evaluation and Initial OPCC Development	\$ 95,345.00	[Lump Sum]
3A	Street Preservation Plans and Contract Documents	\$ 51,495.00	[Lump Sum]
4A	Final Plans and Bid Phase Services	\$ 14,605.00	[Lump Sum]
5A	Construction Phase Services	\$ 18,990.00	[Lump Sum]
6A	Reimbursable Project Expenses	\$ 2,750.00	[Hourly]
	Total Task A (Basic Services)	\$ 198,215.00	
	Task B - Street Rehabilitation Projects		
	BASIC SERVICES		
1B	Project Management	\$ 10,225.00	[Lump Sum]
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5B	Final Plans and Bid Phase Services	\$ 12,545.00	[Lump Sum]
6B	Construction Phase Services	\$ 20,070.00	[Lump Sum]
7B	Reimbursable Project Expenses	\$ 1,500.00	[Hourly]
	Total Task B (Basic Services)	\$ 160,210.00	
	TOTAL COMPENSATION (TASK A & B)	\$ 358,425.00	

Kimley-Horn will submit invoices to the City on a monthly basis for services performed. Each invoice will include a progress report and work completed for the corresponding month.

We appreciate the opportunity to be of service to the City and look forward to successfully completing these projects for you. Please don't hesitate to contact me at stephen.aniol@kimley-horn.com or (210) 321-3404 should you have any questions on the proposed scope and fee

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.
TBPE# 928



By: Stephen J. Aniol, P.E.
 Senior Project Manager

Attachments

- 1 – Project Work Plan (Task A - Street Preservation Projects)
- 2 – Project Work Plan (Task B - Street Rehabilitation Projects)
- 3 – Geotechnical Engineering Proposal (Subconsultant)

Fee/Price Proposal Breakdown for Professional Services

Project Name:	2024 Roadway Improvements - Task A Street Preservation Projects On-Call Engineering Services, Task Order - 10
Design Firm:	Kimley-Horn and Associates, Inc.
Date Proposal Submitted:	11/27/2023
CoS Project Manager:	John Nowak, PE
Kimley-Horn Project Manager:	Chance Dyess, PE / Stephen Aniol, PE

**2024 Roadway Improvements - Task A Street Preservation Projects
On-Call Engineering Services, Task Order - 10**

Position/Personnel Title	QA/QC Manager	Project Manager	Civil Engineer	Staff Engineer III	Staff Engineer II	Design Technician	Administrative /Clerical		Consultant Fee Total
Contract Approved Rates	\$ 225.00	\$ 175.00	\$ 145.00	\$ 125.00	\$ 115.00	\$ 95.00	\$ 75.00		
Task to be performed/Phase Description (including Sub-consultant work)								Total Hours	
BASIC SERVICES									
1A Project Management	24	40	2	10	0	2	12	90	\$ 15,030.00
1.1A Daily Project Management/Design Team Coordinator	12	16						28	\$ 5,500.00
1.2A Monthly Financials and Project Invoicing (Est. 10 Months)	2	10		10			12	34	\$ 4,350.00
1.3A Internal Project Kickoff Meeting	2	2	2			2		8	\$ 1,280.00
1.4A General Coordination with City Project Manager	8	12						20	\$ 3,900.00
2A Field Evaluation and Initial OPCC Development	59	62	142	222	80	144	0	709	\$ 95,345.00
2.1A Site Visits to Review Streets (43 Preservation Streets)	8	24	80	80		40		232	\$ 31,400.00
2.2A Download Site Visit Photos & Documentation				20				20	\$ 2,500.00
2.3A Quantity Takeoff per Street		8	10		80			98	\$ 12,050.00
2.4A Develop OPCC per Street	2	4	8	20				34	\$ 4,810.00
2.5A Schertz Parkway Field Evaluation & Documentation	8		24	24				56	\$ 8,280.00
2.6A Schertz Parkway Quantity Takeoff	1	2	4	16				23	\$ 3,155.00
2.7A Schertz Parkway OPCC (Includes Striping Quantities)		1	2	12				15	\$ 1,965.00
2.8A Develop Pavement Repair Exhibits	4	8	12	32		100		156	\$ 17,540.00
2.9A QA/QC Repair Areas and OPCC per Street	36							36	\$ 8,100.00
2.10A Draft Repair Exhibits and OPCCs Submittal to City		1	2	4		4		11	\$ 1,345.00
2.11A Site Visits with City Project Manager to Review Repairs		14		14				28	\$ 4,200.00
3A Street Preservation Plans and Contract Documents	28	33	85	117	44	78	0	385	\$ 51,495.00
3.1A Finalize Repair Areas per City Comments (Site Visits)	8	10	36	36				90	\$ 13,270.00
3.2A Finalize Repair Areas - Schertz Parkway (Site Visit)	4		12	12				28	\$ 4,140.00
3.3A Finalize Pavement Repair Exhibits		3	6	20		20		49	\$ 5,795.00
3.4A Finalize Quantities and OPCC per Street/Overall Program		4	6		40			50	\$ 6,170.00
3.5A Develop Cover Sheet/Index of Sheets				1		2		3	\$ 315.00
3.6A Develop General and Supplemental Notes Sheets for Preservation Projects	1	2		4		6		13	\$ 1,645.00
3.7A Develop Master Quantity Summary Sheet				2		2		4	\$ 440.00
3.8A Develop Subdivision Street List and Location Sheets (8 Subdivisions)			4	8		12		24	\$ 2,720.00
3.9A Develop Individual Subdivision Quantity Summary Sheets (8 Subdivisions)			4			16		20	\$ 2,100.00
3.10A Develop Base Repair Details and Sheets		1		4		4		9	\$ 1,055.00
3.11A Prepare Typical Section and Grading Notes for Aranda Lane		1		4	4			9	\$ 1,135.00
3.12A Incorporate Relevant Construction Details and Standards		2		4		4		10	\$ 1,230.00
3.13A Coordination with Purchasing Department for Contract Development		2	2					4	\$ 640.00
3.14A Prepare Table of Contents and Invitation to Bidders Document		1		4				5	\$ 675.00
3.15A Prepare Bid Schedule	1	1		6				8	\$ 1,150.00
3.16A Prepare Supplement Conditions (Includes Governing Specs, Special Specs, Supp Specs & Special Provisions)	1	2	8	4				15	\$ 2,235.00
3.17A Prepare Owner and Contractor Agreement		1	1					2	\$ 320.00
3.18A Assemble Contract Documents & Specifications	1	2	4	4		8		19	\$ 2,415.00
3.19A QC/QA 70% Submittal	12							12	\$ 2,700.00
3.20A 70% Submittal		1	2	4		4		11	\$ 1,345.00
4A Final Plans and Bid Phase Services	8	24	14	34	7	16	0	103	\$ 14,605.00
4.1A Finalize Plans and Specs	2	4	4	12		16		38	\$ 4,750.00
4.2A Finalize Contract Documents Booklet	1	2	4	8				15	\$ 2,155.00
4.3A Assist City with Project Advertising		2		2				4	\$ 600.00

Project Name:	2024 Roadway Improvements - Task A Street Preservation Projects On-Call Engineering Services, Task Order - 10
Design Firm:	Kimley-Horn and Associates, Inc.
Date Proposal Submitted:	11/27/2023
CoS Project Manager:	John Nowak, PE
Kimley-Horn Project Manager:	Chance Dyess, PE / Stephen Aniol, PE

Position/Personnel Title	QA/QC Manager	Project Manager	Civil Engineer	Staff Engineer III	Staff Engineer II	Design Technician	Administrative /Clerical		Consultant Fee Total
Contract Approved Rates	\$ 225.00	\$ 175.00	\$ 145.00	\$ 125.00	\$ 115.00	\$ 95.00	\$ 75.00		
Task to be performed/Phase Description (including Sub-consultant work)								Total Hours	
4.4A Prepare Agenda and Attend Pre-Bid Meeting	3	3		2				8	\$ 1,450.00
4.5A Prepare Pre-Bid Meeting Notes		1		2				3	\$ 425.00
4.6A Prepare and Issue Addenda	1	2	4	8				15	\$ 2,155.00
4.7A Attend Bid Opening		3						3	\$ 525.00
4.8A Contractor Qualification and Bid Evaluation		1	2					3	\$ 465.00
4.9A Prepare Bid Tabulation	0.5	2			4			6.5	\$ 922.50
4.10A Assist City with Bid Negotiations		3						3	\$ 525.00
4.11A Prepare Contract Award Recommendation Letter	0.5	1			3			4.5	\$ 632.50
5A Construction Phase Services	2	34	42	52	0	0	0	130	\$ 18,990.00
5.1A Attend Pre-Construction Meeting		4		4				8	\$ 1,200.00
5.2A Material Submittal Reviews	1	4	8	12				25	\$ 3,585.00
5.3A Construction Site Visits and Report (Est. 6 Months, Two x Monthly, 1 Report per Month)		24	32	32				88	\$ 12,840.00
5.4A Review and Respond to Contractor Change Order Proposal (Est. 2 Proposals)	1	2	2	4				9	\$ 1,365.00
6A Reimbursable Project Expenses	0	0	0	0	0	0	0	0	\$ 2,750.00
6.1A Field Review & Design/Construction Site Visits									\$ 2,000.00
6.2A Marking Paint and Measuring Equipment (Design Phase)									\$ 750.00
Total Hours (Basic Services):	121	193	285	435	131	240	12	1417	
Total Fee (Basic Services):									\$ 198,215.00

Fee/Price Proposal Breakdown for Professional Services

Project Name:	2024 Roadway Improvements - Task B Street Rehabilitation Projects
Design Firm:	Kimley-Horn and Associates, Inc.
Date Proposal Submitted:	11/27/2023
CoS Project Manager:	John Nowak, PE
Kimley-Horn Project Manager:	Chance Dyess, PE / Stephen Aniol, PE

Position/Personnel Title	QA/QC Manager	Project Manager	Civil Engineer	Staff Engineer III	Staff Engineer II	Senior Design Technician	Design Technician	Administrative /Clerical		Consultant Fee Total	Sub-Consultant Fee Total	Fee Total
Contract Approved Rates	\$ 225.00	\$ 175.00	\$ 145.00	\$ 125.00	\$ 115.00	\$ 115.00	\$ 95.00	\$ 75.00				
Task to be performed/Phase Description (including Sub-consultant work)										Total Hours		
BASIC SERVICES												
1B Project Management	15	30	0	8	0	0	0	8	61	\$ 10,225.00	\$ -	\$ 10,225.00
1.1B Daily Project Management/Design Team Coordination	8	12							20	\$ 3,900.00		
1.2B Monthly Financials and Project Invoicing (Est. 10 Months)	2	8		8				8	26	\$ 3,450.00		
1.3B General Coordination with City Project Manager	5	10							15	\$ 2,875.00		
2B Geotechnical Engineering Services	2	6	4	2	0	0	0	0	14	\$ 2,330.00	\$ 10,040.00	\$ 12,370.00
2.1B Geotechnical Engineering Services									0	\$ -	\$ 10,040.00	
2.2B Subcontract Management		1		2					3	\$ 425.00		
2.3B Coordinate Pavement Boring and Coring Plan and Drilling Operations		1	4						5	\$ 755.00		
2.4B Review Boring Logs and Draft Engineering Report	2	4							6	\$ 1,150.00		
3B Field Evaluation and Initial OPCC Development	40	51	82	142	62	0	142	0	519	\$ 68,185.00	\$ -	\$ 68,185.00
3.1B Site Visits to Review Streets (14 Rehab Streets/24 Sheets at 50 Scale)	8	18	42	42			26		136	\$ 18,760.00		
3.2B Download Site Visit Photos & Documentation				16					16	\$ 2,000.00		
3.3B Quantity Takeoff per Street		8	12		62				82	\$ 10,270.00		
3.4B Develop OPCC per Street	2	4	8	26					40	\$ 5,560.00		
3.5B Develop Plan View Aerial Schematics	4	8	18	42			112		184	\$ 20,800.00		
3.6B QA/QC Schematics and OPCC	26								26	\$ 5,850.00		
3.7B Draft Schematics and OPCC Submittal to City		1	2	4			4		11	\$ 1,345.00		
3.8B Site Visits with City Project Manager to Review Improvements		12		12					24	\$ 3,600.00		
4B Street Rehabilitation Plans and Contract Documents	13	25	41	57	46	41	52	0	275	\$ 35,315.00	\$ -	\$ 35,315.00
4.1B Finalize Schematics		5	10	20			44		79	\$ 9,005.00		
4.2B Finalize Quantities and OPCC per Street/Overall Program		4	10		46				60	\$ 7,440.00		
4.3B Develop Cover Sheet/Index of Sheets				1		1			2	\$ 240.00		
4.4B Develop General and Supplemental Notes Sheets for Rehabilitation Projects	2	4		4		6			16	\$ 2,340.00		
4.5B Develop Master Quantity Summary Sheet				2		2			4	\$ 480.00		
4.6B Develop Subdivision Street List and Location Sheets (4 Subdivisions)			2	4		8			14	\$ 1,710.00		
4.7B Develop Individual Subdivision Quantity Summary Sheets (4 Subdivisions)			2			12			14	\$ 1,670.00		
4.8B Develop Rehabilitation Details and Sheets		1		4		4			9	\$ 1,135.00		
4.9B Incorporate Relevant Construction Details and Standards		2		4		4			10	\$ 1,310.00		
4.10B Coordination with Purchasing Department for Contract Development		1	2						3	\$ 465.00		
4.11B Prepare Table of Contents and Invitation to Bidders Document		1		2					3	\$ 425.00		
4.12B Prepare Bid Schedule	1	1		4					6	\$ 900.00		
4.13B Prepare Supplement Conditions (Includes Governing Specs, Special Specs, Supp Specs & Special Provisions)	1	2	8	4					15	\$ 2,235.00		
4.14B Prepare Owner and Contractor Agreement		1	1						2	\$ 320.00		
4.15B Assemble Contract Documents & Specifications	1	2	4	4			8		19	\$ 2,415.00		
4.16B QC/QA 70% Submittal	8								8	\$ 1,800.00		
4.17B 70% Submittal		1	2	4		4			11	\$ 1,425.00		
5B Final Plans and Bid Phase Services	8	23	14	25	7	0	8	0	85	\$ 12,545.00	\$ -	\$ 12,545.00
5.1B Finalize Plans and Specs	2	4	4	8			8		26	\$ 3,490.00		
5.2B Finalize Contract Documents Booklet	1	2	4	4					11	\$ 1,655.00		
5.3B Assist City with Project Advertising		1		1					2	\$ 300.00		
5.4B Prepare Agenda and Attend Pre-Bid Meeting	3	3		2					8	\$ 1,450.00		
5.5B Prepare Pre-Bid Meeting Notes		1		2					3	\$ 425.00		
5.6B Prepare and Issue Addenda	1	2	4	8					15	\$ 2,155.00		
5.7B Attend Bid Opening		3							3	\$ 525.00		
5.8B Contractor Qualification and Bid Evaluation		1	2						3	\$ 465.00		
5.9B Prepare Bid Tabulation	0.5	2			4				6.5	\$ 922.50		
5.10B Assist City with Bid Negotiations		3							3	\$ 525.00		

Fee/Price Proposal Breakdown for Professional Services

Project Name:	2024 Roadway Improvements - Task B Street Rehabilitation Projects On-Call Engineering Services, Task Order - 10
Design Firm:	Kimley-Horn and Associates, Inc.
Date Proposal Submitted:	11/27/2023
CoS Project Manager:	John Nowak, PE
Kimley-Horn Project Manager:	Chance Dyess, PE / Stephen Aniol, PE

Position/Personnel Title	QA/QC Manager	Project Manager	Civil Engineer	Staff Engineer III	Staff Engineer II	Senior Design Technician	Design Technician	Administrative /Clerical		Consultant Fee Total	Sub-Consultant Fee Total	Fee Total
Contract Approved Rates	\$ 225.00	\$ 175.00	\$ 145.00	\$ 125.00	\$ 115.00	\$ 115.00	\$ 95.00	\$ 75.00				
Task to be performed/Phase Description (including Sub-consultant work)									Total Hours			
5.11B Prepare Contract Award Recommendation Letter	0.5	1			3				4.5	\$ 632.50		
6B Construction Phase Services	2	34	46	56	0	0	0	0	138	\$ 20,070.00	\$ -	\$ 20,070.00
6.1B Attend Pre-Construction Meeting		4		4					8	\$ 1,200.00		
6.2B Material Submittal Reviews	1	4	8	12					25	\$ 3,585.00		
6.3B Construction Site Visits and Report (Est. 6 Months, Two x Monthly, 1 Report per Month)		24	36	36					96	\$ 13,920.00		
6.4B Review and Respond to Contractor Change Order Proposal (Est. 2 Proposals)	1	2	2	4					9	\$ 1,365.00		
7B Reimbursable Project Expenses	0	0	0	0	0	0	0	0	0	\$ 1,500.00	\$ -	\$ 1,500.00
7.1B Field Review & Design/Construction Site Visits										\$ 1,500.00	\$ -	
Total Hours (Basic Services):	80	169	187	290	115	41	202	8	1092			
Total Fee (Basic Services):										\$ 150,170.00	\$ 10,040.00	\$ 160,210.00



6911 Blanco Road
San Antonio, TX 78216
P (210) 641-2112
Terracon.com

November 27, 2023

ATTACHMENT 3

Kimley-Horn and Associates Inc.
10101 Reunion Place, Suite 400
San Antonio, TX 78216

Attn: Mr. Chance Dyess, P.E.
P: (210) 728 – 6947
E: Chance.Dyess@kimley-horn.com

RE: Revised Proposal for Geotechnical Engineering Services
Schertz SPAM Projects 2024
Various Streets
Schertz, Texas
Terracon Revised Proposal No. P90235304R

Dear Mr. Dyess:

We appreciate the opportunity to submit this revised proposal to Kimley-Horn and Associates Inc. to provide Geotechnical Engineering services for the above referenced project. The following are exhibits to the attached proposal.


Exhibit A	Project Understanding
Exhibit B	Scope of Services
Exhibit C	Compensation and Project Schedule
Exhibit D	Site Location
Exhibit E	Anticipated Exploration Plans

The proposed Scope of Services may be authorized by a Purchase Order referencing the existing Master Services Agreement (dated August 4, 2021). Services will be initiated upon acceptance of PO and receipt of authorization with written notice to proceed (including e-mail). The terms, conditions and limitations stated in the Master Services Agreement, including sections of this Proposal incorporated therein, shall constitute the exclusive terms and conditions and services to be performed for this project.

Sincerely,

Terracon
(Firm Registration: TX F3272)


Carlos Cotilla
Staff Engineer


Gregory P. Stieben, P.E.
Senior Consultant

Proposal for Geotechnical Engineering Services

Schertz SPAM Projects 2024 | Schertz, Texas
 November 27, 2023 | Terracon Revised Proposal No. P90235304R

Exhibit A – Project Understanding

Our Scope of Services is based on our understanding of the project as described below. We have not visited the project site to confirm the information provided. Aspects of the project, undefined or assumed, are highlighted as shown below. We request the design team verify all information prior to our initiation of field exploration activities.

Terracon previously provided a Geotechnical Report (Terracon Project No. 90215067, dated October 26, 2022) for the proposed reconstruction of streets within the Dove Meadows Neighborhood and Robin Hood Way. The findings in that report will be used to supplement this new geotechnical study.

Planned Construction

Item	Description
Information Provided	We have been provided the site locations by the Client.
Roadways	<p>The project includes the reconstruction and rehabilitation of several streets in Schertz, Texas.</p> <ul style="list-style-type: none"> ■ Maple Drive from Oak Street to Colony Drive (approx. 3,600 LF) will be rehabilitated. A small section of the road will be reconstructed. ■ Robin Hood Way (approx. 4,000 LF) will be rehabilitated. ■ Dove Meadows Neighborhood, several roads within the neighborhood will be rehabilitated. ■ St. Andrews from Country Club Boulevard to Pebble Beach will be rehabilitated.
Pavements	Only flexible (asphalt) pavement sections will be considered.

Site Location and Anticipated Conditions

Item	Description
Parcel Information	The project is located at various streets in Schertz, Texas.
Existing Improvements	Existing roadways
Current Ground Cover	Asphalt.
Existing Topography	Unknown

Proposal for Geotechnical Engineering Services

Schertz SPAM Projects 2024 | Schertz, Texas
 November 27, 2023 | Terracon Revised Proposal No. P90235304R

Site Access

We expect the site, and all exploration locations, are accessible with our truck-mounted drilling equipment and support vehicles.

Exhibit B - Scope of Services

Our proposed Scope of Services consists of field exploration, laboratory testing, and engineering/project delivery. These services are described in the following sections. The asphalt core observations and measurements from the previous Terracon Geotechnical Report (Terracon Project No. 90215067, dated October 26, 2022) will be used to supplement the rehabilitation recommendations for Robin Hood Way and Dove Meadows. Borings were performed previously on the Dove Meadows and Robin Hood Way sites.

Field Exploration

Based on the proposed development and our experience in the project areas, the following field exploration is proposed:

Number of Borings	Planned Boring Depth (feet) ¹	Number of Pavement Cores	Planned Location
1 (A-1)	10	7 (C-1 thru C-7)	Maple Drive
---	---	2 (D-1 and D-2)	Dove Meadows Neighborhood
---	---	5 (E-1 thru E-5)	Robin Hood Way
---	---	4 (F-1 thru F-4)	St. Andrews

1. Below ground surface.

Boring Layout and Elevations: We will use handheld GPS equipment to locate borings with an estimated horizontal accuracy of +/-20 feet. Field measurements from existing site features may be utilized. If available, approximate elevations will be obtained by interpolation from a site specific, surveyed topographic map.

Subsurface Exploration Procedures: We will advance soil borings with a truck-mounted drill rig using continuous flight augers (solid stem and/or hollow stem, as necessary, depending on soil conditions). Five samples will be obtained in the upper 10 feet of each boring and at intervals of 5 feet thereafter. Soil sampling is typically performed using thin-wall tube and/or split-barrel sampling procedures. The split-barrel samplers are driven in accordance with the standard penetration test (SPT). The samples will be placed in appropriate containers, taken to our soil laboratory for testing, and

Proposal for Geotechnical Engineering Services

Schertz SPAM Projects 2024 | Schertz, Texas

November 27, 2023 | Terracon Revised Proposal No. P90235304R

classified by a Geotechnical Engineer. In addition, we will observe and record groundwater levels during drilling and sampling.

Our exploration team will prepare field boring logs as part of standard drilling operations including sampling depths, penetration distances, and other relevant sampling information. Field logs include visual classifications of materials observed during drilling and our interpretation of subsurface conditions between samples. Final boring logs, prepared from field logs, represent the Geotechnical Engineer's interpretation and include modifications based on observations and laboratory tests.

Property Disturbance: We will backfill borings with auger cuttings after completion. Pavements are patched with cold-mix asphalt and/or ready-mixed concrete, as appropriate. Our services do not include repair of the site beyond backfilling our boreholes and patching existing pavements. Excess auger cuttings will be dispersed in the general vicinity of the borehole. Because backfill material often settles below the surface after a period, we recommend boreholes to be periodically checked and backfilled, if necessary. We can provide this service or grout the boreholes for additional fees at your request.

Safety

Terracon is currently not aware of environmental concerns at this project site that would create health or safety hazards associated with our exploration program; thus, our Scope considers standard OSHA Level D Personal Protection Equipment (PPE) appropriate. Our Scope of Services does not include environmental site assessment services, but identification of unusual or unnatural materials observed while drilling will be noted on our logs.

Exploration efforts require borings (and possibly excavations) into the subsurface, therefore Terracon will comply with local regulations to request a utility location service Texas811 We will consult with the landowner/client regarding potential utilities or other unmarked underground hazards. Based upon the results of this consultation, we will consider the need for alternative subsurface exploration methods as the safety of our field crew is a priority.

Private utilities should be marked by the owner/client prior to commencement of field exploration. Terracon will not be responsible for damage to private utilities not disclosed to us. Terracon will notify Texas811, a free utility location service, prior to our drilling program to help locate utilities within dedicated public utility easements. If underground utilities are known to exist on the site, Terracon should be notified so that we may review utility plans to help avoid the existing lines. Terracon cannot be responsible for utilities for which we are unaware or that are improperly located in the field. Location of private lines on the property is not part of the Texas 811 scope.

Proposal for Geotechnical Engineering Services

Schertz SPAM Projects 2024 | Schertz, Texas

November 27, 2023 | Terracon Revised Proposal No. P90235304R

Site Access: Terracon must be granted access to the site by the property owner. By acceptance of this proposal, without information to the contrary, we consider this as authorization to access the property for conducting field exploration in accordance with the Scope of Services.

Laboratory Testing

The project engineer will review field data and assign laboratory tests to understand the engineering properties of various soil strata. Exact types and number of tests cannot be defined until completion of fieldwork, but we anticipate the following laboratory testing may be performed for the soil boring:

- Water content
- Percent Passing No. 200 sieve
- Atterberg limits
- Sulfate Tests
- CBR (1 test) (The test results from the previous study will be used)
- Standard Proctor (1 test) (The test results from the previous study will be used)
- Lime Series (1 test) (The test results from the previous study will be used)

Our laboratory testing program often includes examination of soil samples by an engineer. Based on the results of our field and laboratory programs, we will describe and classify soil samples in accordance with the Unified Soil Classification System (USCS).

Engineering and Project Delivery

The results of our field and laboratory programs will be evaluated, and a geotechnical engineering report will be prepared under the supervision of a licensed professional engineer. The geotechnical engineering report will provide the following:

- Boring and coring location plan.
- Subsurface exploration procedures.
- Computer generated boring logs with soil classification.
- Summarized laboratory data.
- Groundwater levels observed during and after completion drilling.
- Encountered soil conditions.
- Subgrade soil modification recommendations for pavement design.
- Existing pavement thickness.
- Pavement design recommendation in accordance with the City of Schertz design manual.

Proposal for Geotechnical Engineering Services

Schertz SPAM Projects 2024 | Schertz, Texas
 November 27, 2023 | Terracon Revised Proposal No. P90235304R

Exhibit C - Compensation and Project Schedule

Compensation

Based upon our understanding of the site, the project as summarized in Exhibit A, and our planned Scope of Services outlined in Exhibit B, our base fee is shown in the following table:

Task	Lump Sum Fee ¹
Subsurface Exploration, Laboratory Testing, Geotechnical Consulting and Reporting	\$10,040

1. Proposed fees noted above are effective for 60 days from the date of the proposal.

Our Scope of Services does not include services associated with site clearing, wet ground conditions, tree or shrub clearing, or repair of/damage to existing landscape. If such services are desired by the owner/client, we should be notified so we can adjust our Scope of Services.

Unless instructed otherwise, we will submit our invoice(s) to the address shown at the beginning of this proposal. If conditions are encountered that require Scope of Services revisions and/or result in higher fees, we will contact you for approval, prior to initiating services. A supplemental proposal stating the modified Scope of Services as well as its effect on our fee will be prepared. We will not proceed without your authorization.

Project Schedule

We developed a schedule to complete the Scope of Services based upon our existing availability and understanding of your project schedule. However, our schedule does not account for delays in field exploration beyond our control, such as weather conditions, delays resulting from utility clearance, permit delays, or lack of permission to access the boring locations. In the event the schedule provided is inconsistent with your needs, please contact us so we may consider alternatives.

Delivery on Client Portal	Schedule ^{1, 2}
Kickoff Call with Client	5 days after notice to proceed
Site Characterization	20 days after completion of field program

Proposal for Geotechnical Engineering Services

Schertz SPAM Projects 2024 | Schertz, Texas

November 27, 2023 | Terracon Revised Proposal No. P90235304R

Delivery on Client Portal	Schedule ^{1, 2}
Geotechnical Engineering	15 days after completion of laboratory testing
<ol style="list-style-type: none">1. Upon receipt of your notice to proceed we will activate the schedule component on Client Portal with specific, anticipated dates for the delivery points noted above as well as other pertinent events.2. Standard workdays. We will maintain an activities calendar within on Client Portal. The schedule will be updated to maintain a current awareness of our plans for delivery.	

Exhibit D – Site Location

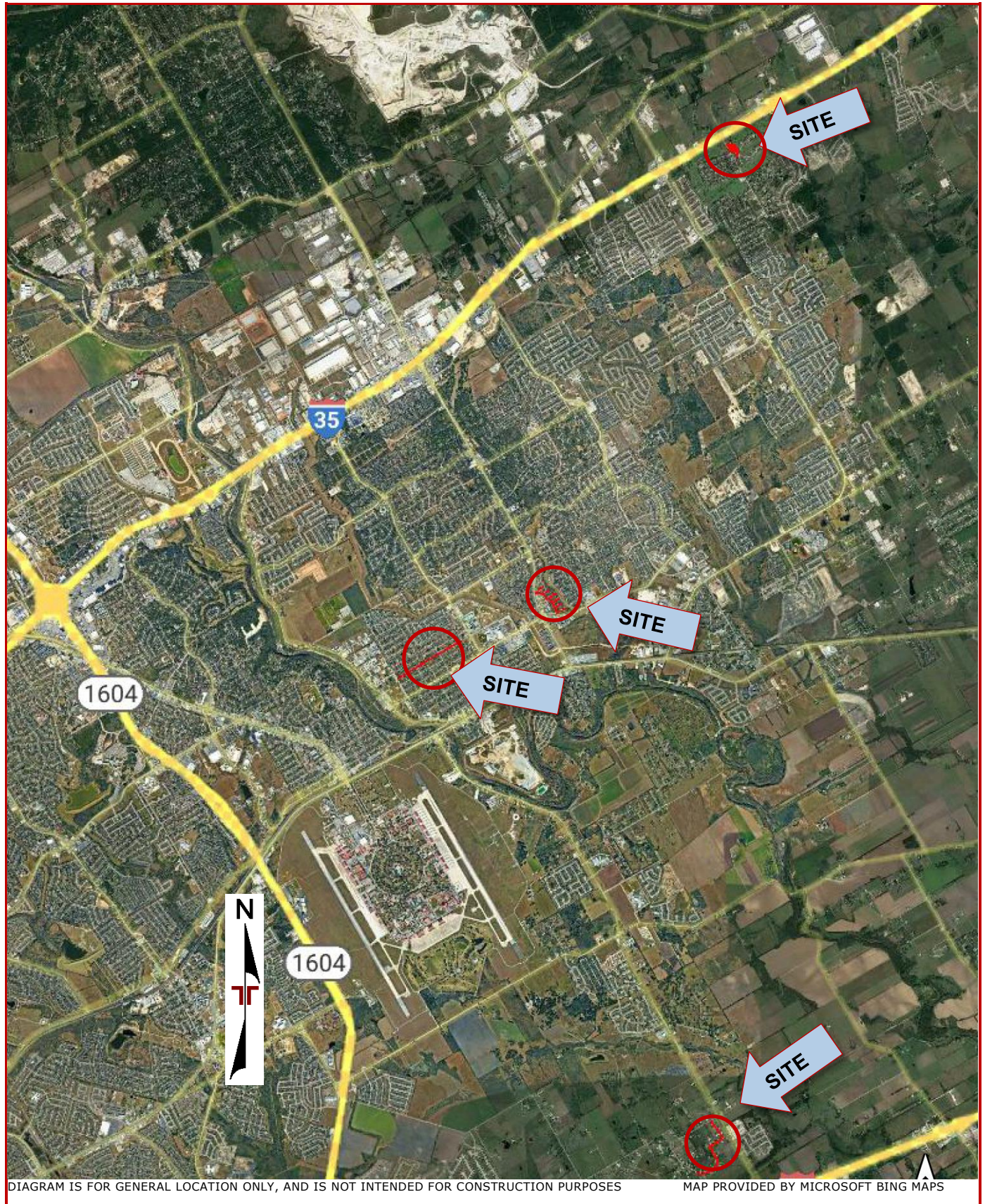


Exhibit E – Anticipated Exploration Plans

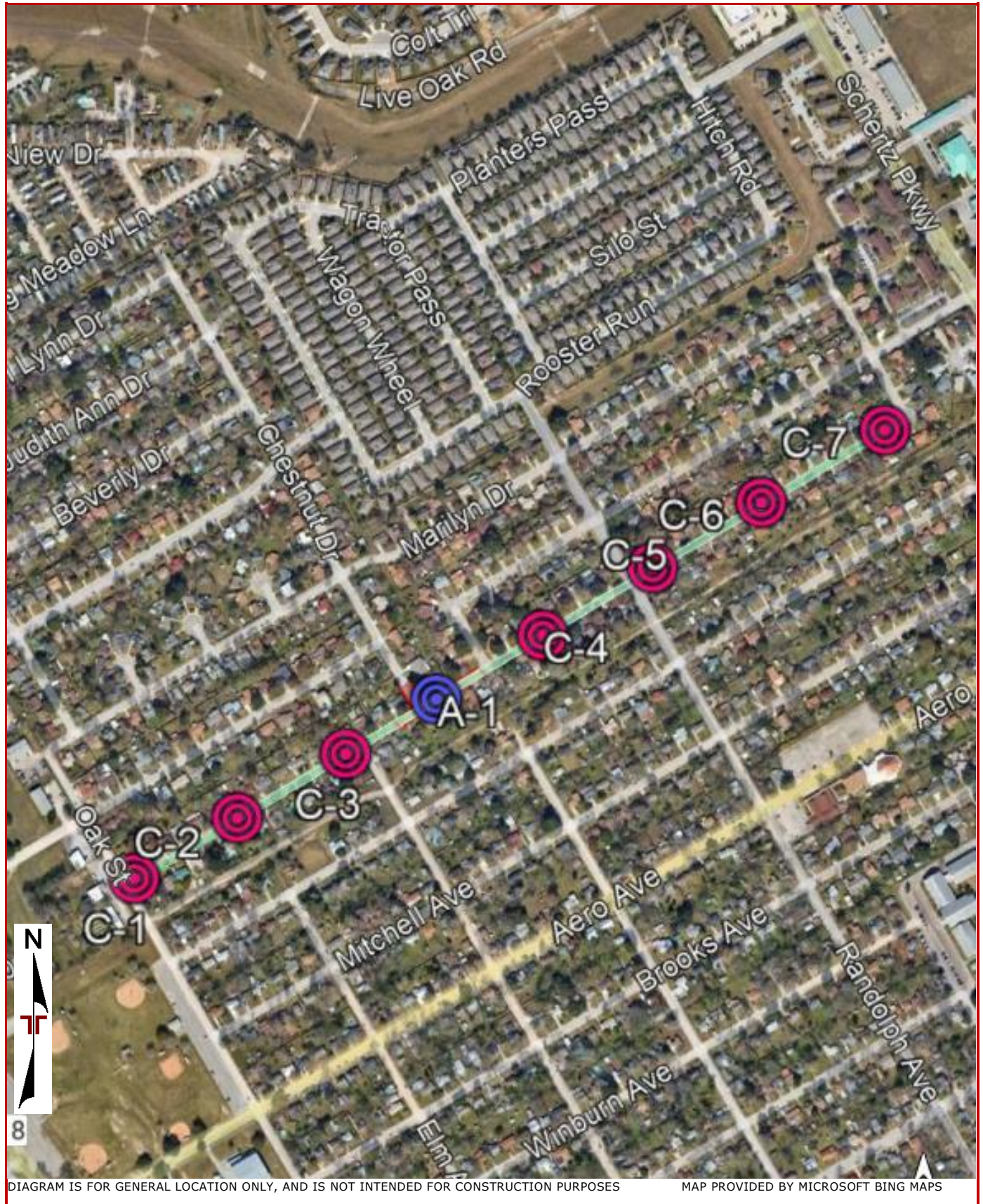


Exhibit E – Anticipated Exploration Plans



DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

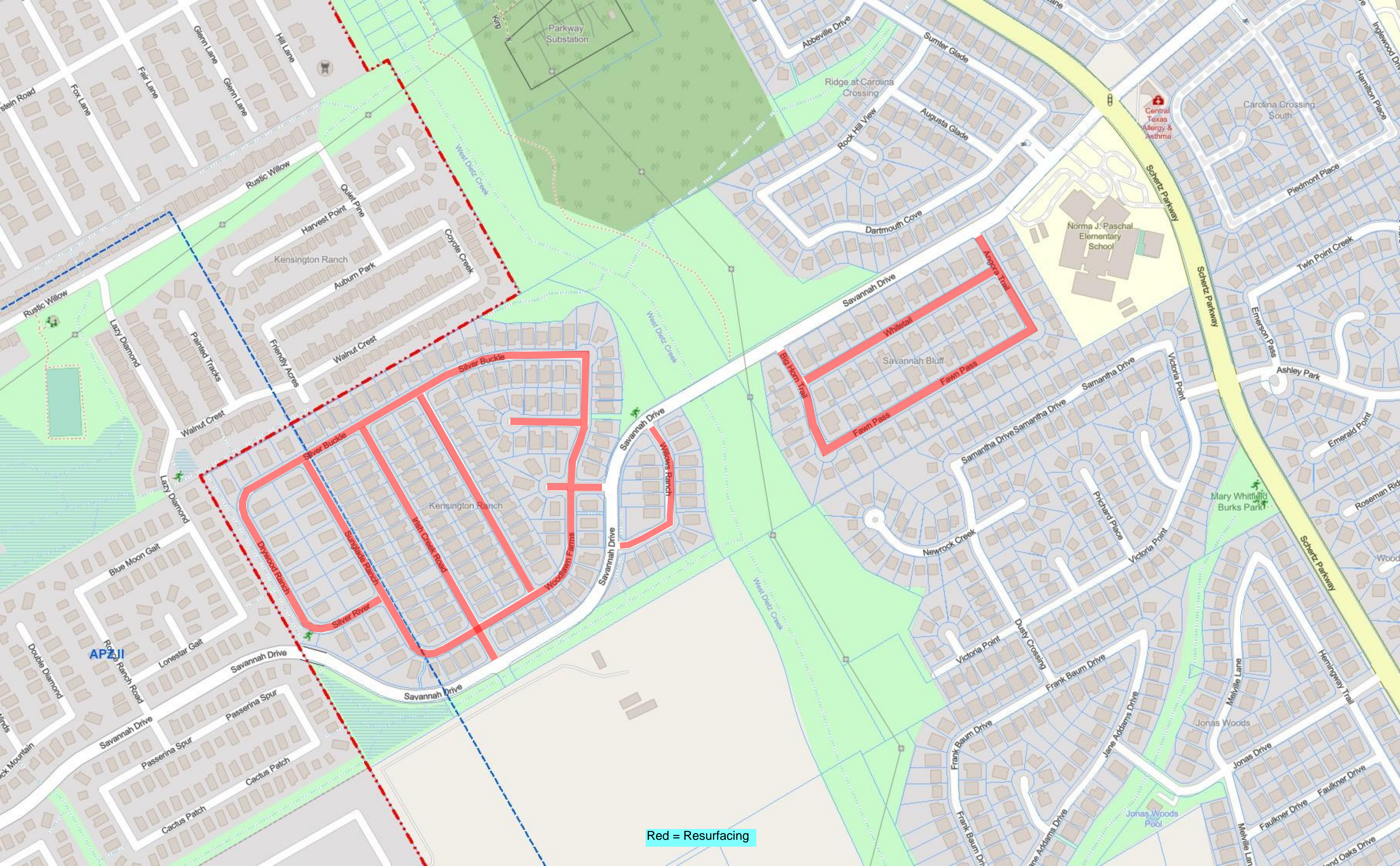
MAP PROVIDED BY MICROSOFT BING MAPS

Exhibit E – Anticipated Exploration Plans



Exhibit E – Anticipated Exploration Plans





Red = Resurfacing

Central Texas Allergy & Asthma

Norma J. Paschal Elementary School

Mary Whitfield Burks Park

APZII

Parkway Substation

Jonas Woods Pool



Green = Rehabilitation

APZI



Red = Resurfacing

Verde Parkway

Mid-Cities Parkway

Mid-Cities Parkway

Interstate 35 North

Interstate 35 North

Interstate 35 North

Interstate 35 North

Interstate 35 North

Interstate 35 North

Interstate 35 North

Interstate 35 North

Interstate 35 North

Interstate 35 North

Interstate 35 North

Iola Drive

Iola Drive

Iola Drive

Well Drive

Cabana Drive

Cabana Drive

Iron Ride Pass

Windy Ridge Trail

Pebble Run

Red Rock Pass

Forest Ridge Parkway

Grand Forest Drive

Southern Tire Mart

Sherwin-Williams

Candlewood Suites

Caliber Collision Center

Enterprise

Starbucks

IHOP

Mama Margie's

Lowe's

I 35

I 35

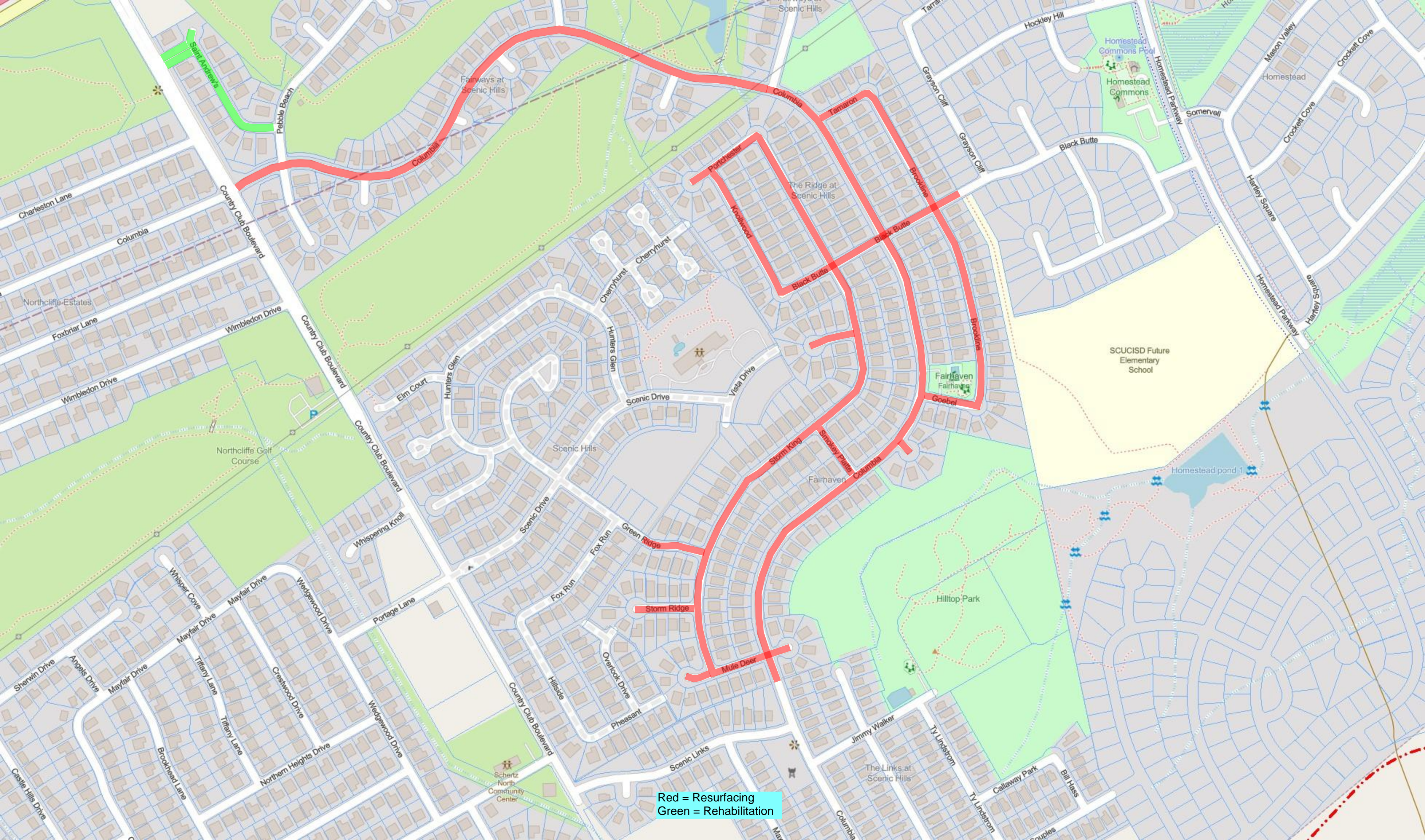
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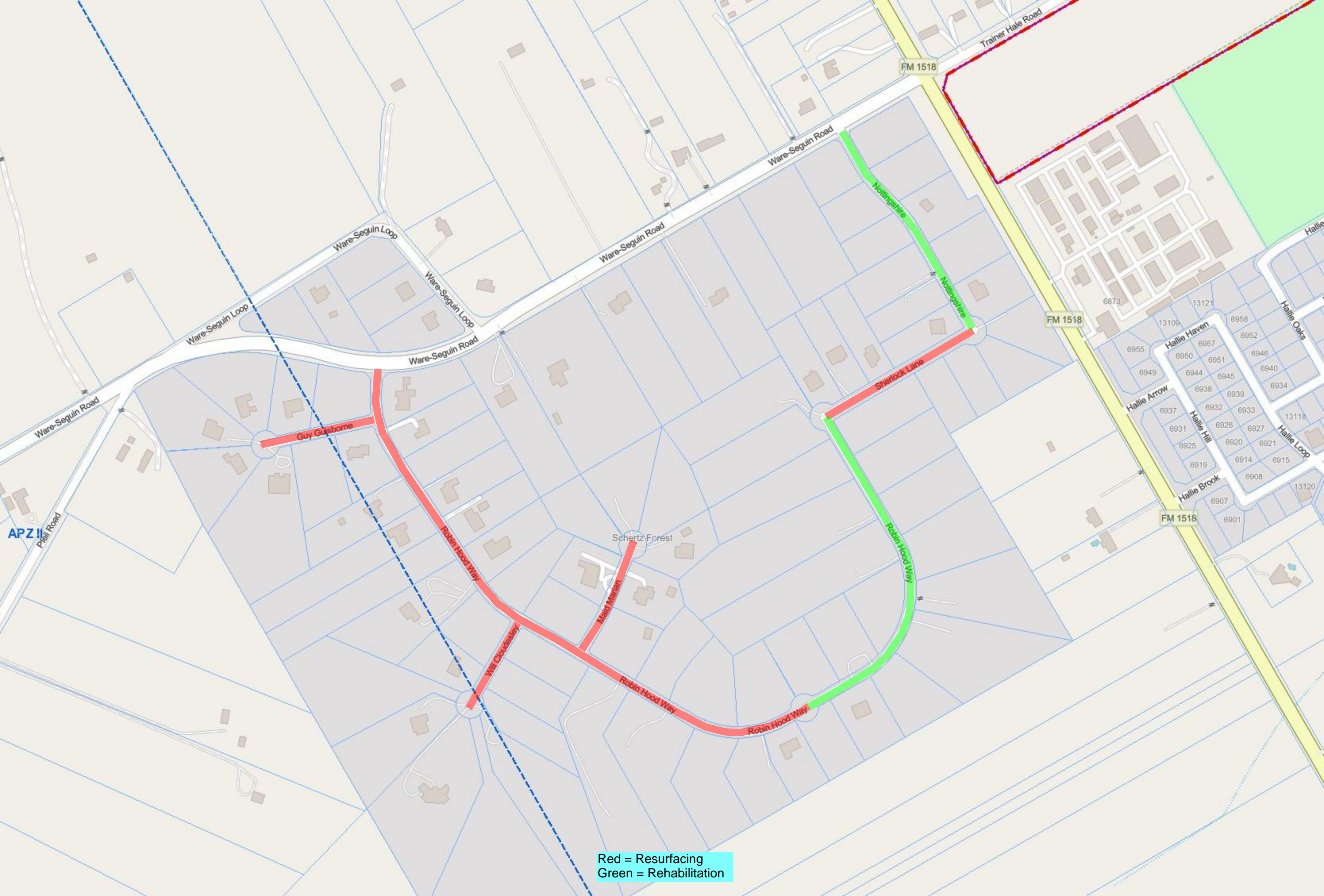
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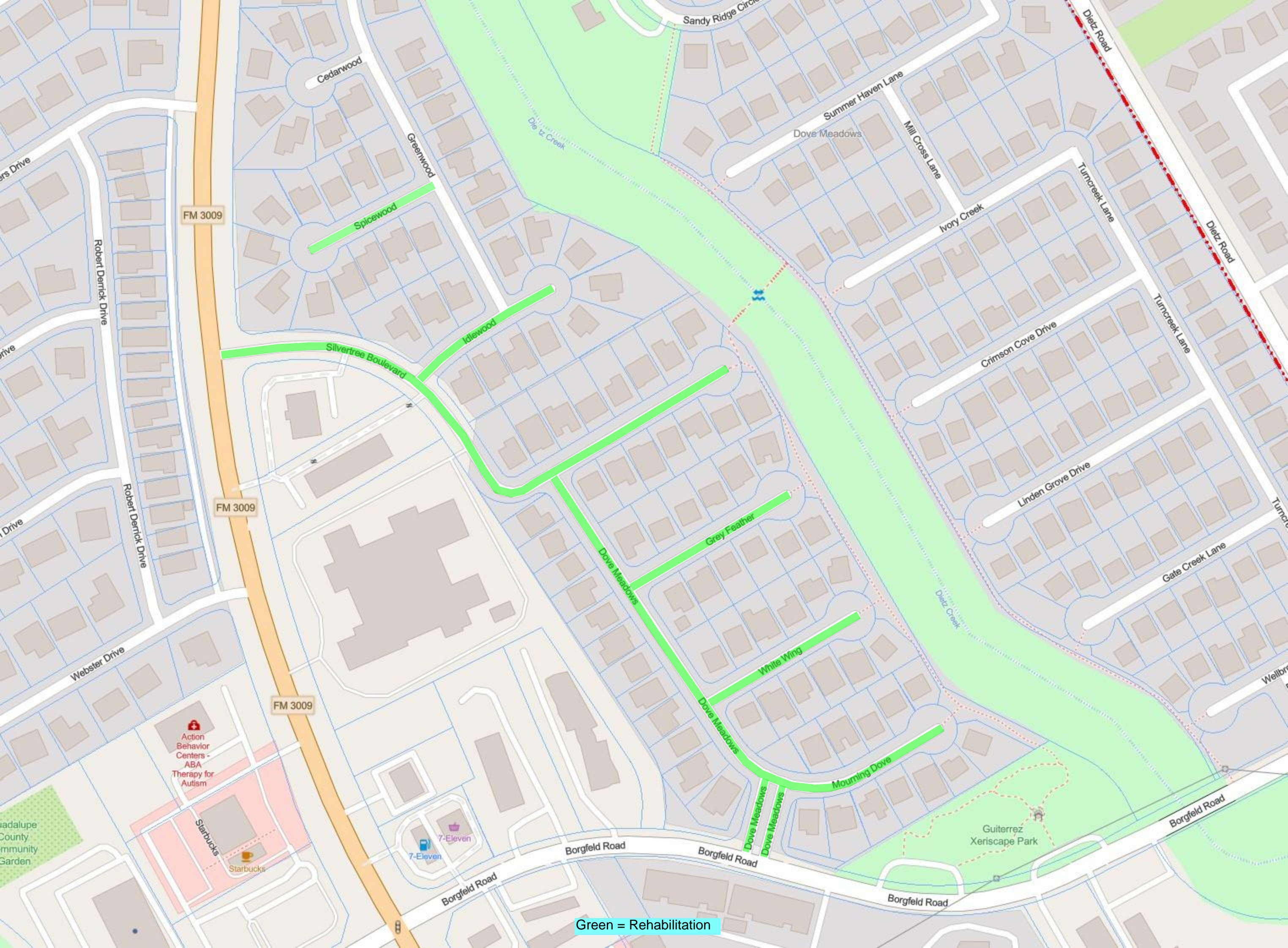
175



Red = Resurfacing
Green = Rehabilitation



Red = Resurfacing
Green = Rehabilitation



FM 3009

FM 3009

FM 3009

Green = Rehabilitation

Action Behavior Centers - ABA Therapy for Autism

Starbucks

Starbucks

7-Eleven

7-Eleven

Gutierrez Xeriscape Park

Cedarwood

Greenwood

Spicewood

Idlewood

Silvertree Boulevard

Dove Meadows

Grey Feather

White Wing

Mourning Dove

Dove Meadows

Dove Meadows

Borgfeld Road

Borgfeld Road

Borgfeld Road

Borgfeld Road

Summer Haven Lane

Dove Meadows

Mill Cross Lane

Ivory Creek

Turcreek Lane

Crimson Cove Drive

Linden Grove Drive

Gate Creek Lane

Turcreek Lane

Turcreek Lane

Diez Road

Diez Road

Diez Road

Wellbri...

rs Drive

Drive

Drive

Webster Drive

Robert Derrick Drive

Robert Derrick Drive

Sandy Ridge Circle

Madalupe County Community Garden



Red = Resurfacing

Carolina Crossing North

Laura Ingalls Wilder Intermediate School

Central Texas Allergy & Asthma

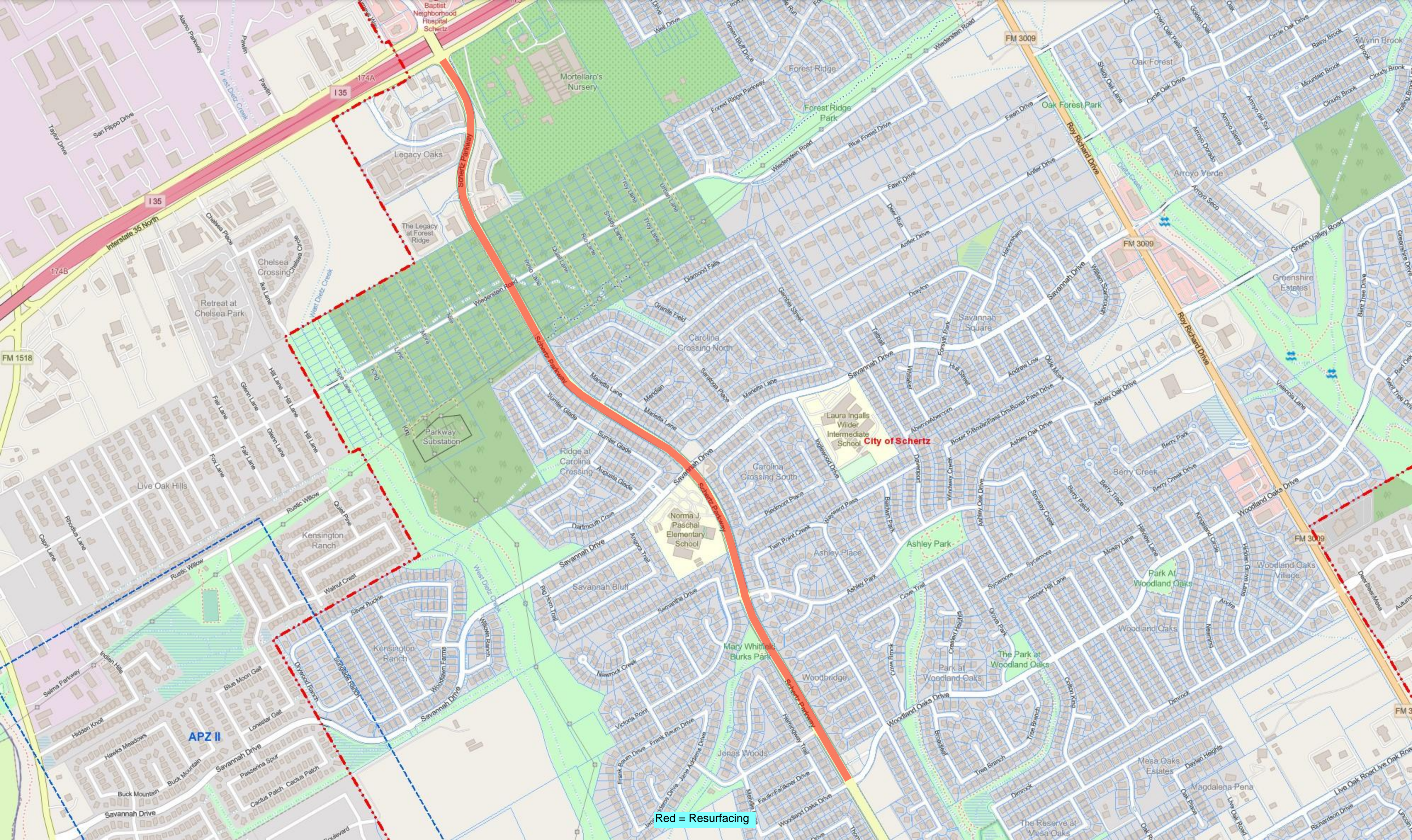
Norma J. Paschal Elementary School

Carolina Crossing South

Red = Resurfacing



Red = Resurfacing



Red = Resurfacing