



CONSENT CALENDAR

Agenda Item # 2

AGENDA REPORT SUMMARY

Meeting Date: September 21, 2021

Subject: Design Contract Award: CIPP Corrosion Rehabilitation, Project WW-01005

Prepared by: Andrea Trese, Associate Civil Engineer

Reviewed by: Aida Fairman, Engineering Services Manager
James Sandoval, Engineering Services Director

Approved by: Gabriel Engeland, City Manager

Attachment:

1. Consultant's Proposal

Initiated by:

Capital Improvement Plan - Project WW-01005

Previous Council Consideration:

None

Fiscal Impact:

\$151,100 (For FY 2021-2022, \$465,000 has been allocated to this Project Budget.)

Environmental Review:

Categorically Exempt pursuant to CEQA Section 15301 (b) consisting of the repair and maintenance or minor alteration of existing sewerage publicly-owned sewerage facilities involving negligible or no expansion of existing or former use.

Policy Question(s) for Council Consideration:

None

Summary:

- The CIPP Corrosion Rehabilitation Project WW-01005 will consist of lining four sewer main segments on El Camino Real as identified in the Sanitary Sewer Master Plan

Staff Recommendation:

Authorize the City Manager to execute an agreement on behalf of the City with Freyer & Laureta, Inc. in the amount of \$151,100 to provide design and consulting services for the CIPP Corrosion Rehabilitation Project WW-01005

Reviewed By:

City Manager

GE

City Attorney

JH

Finance Director

GE



Subject: Design Contract Award: CIPP Corrosion Rehabilitation, Project WW-01005

Purpose

Execute an agreement for design and consulting services for the CIPP Corrosion Rehabilitation Project WW-01005.

Background

The 2013 Sanitary Sewer Master Plan Update recommended rehabilitation of segments of pipe at various locations throughout the City. This project consists of lining four trunk sewer main segments located on El Camino Real. These four lines range in size from 27 to 30 inches in diameter and would be rehabilitated using the trenchless method of Cured-In-Place Pipe (CIPP) lining.

Discussion/Analysis

It is recommended that the award of the design contract be made to Freyer & Laureta, Inc. in the amount of \$151,100. Through the Request for Statements of Qualifications (SOQ) process, the City previously created a shortlist of firms for design and construction support services for sanitary sewer projects. Freyer & Laureta, Inc. was selected from the City's shortlist of firms to submit a proposal for this project. Freyer & Laureta, Inc. has been in business for over 20 years and has satisfactorily completed similar projects for the City of Los Altos and other municipalities in the Bay Area.

Options

- 1) Authorize the City Manager to execute the agreement with Freyer & Laureta, Inc. for design and construction support services for the CIPP Corrosion Rehabilitation Project WW-01005.

Advantages: Completion of the CIPP Corrosion Rehabilitation Project provides necessary repairs of the City's sanitary sewer system to ensure its proper functioning.

Disadvantages: None

- 2) Do not authorize the City Manager to execute the agreement with Freyer & Laureta, Inc.

Advantages: None

Disadvantages: Rehabilitation of the sanitary sewer segments would be delayed.

Recommendation

The staff recommends Option 1.



CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS

REVISED - July 16, 2021

Andrea Trese, P.E.
 Associate Civil Engineer
 Department of Public Works
 City of Los Altos
 One North San Antonio Road
 Los Altos, California 94022-3087

RE: Response to Request for Proposals
CIPP Corrosion Rehabilitation, Project WW0100521
 City of Los Altos, California

Dear Ms. Trese:

Freyer & Laureta, Inc. (F&L) is pleased to submit this Proposal in response to the Request for Proposal (RFP) for design services for the Cured-in-Place Pipe (CIPP) Corrosion Rehabilitation, Project WW-0100521 issued by the City of Los Altos dated May 17, 2021. The project includes CIPP repair for portions of the existing 27-inch sanitary sewer main on El Camino Real.

PROJECT DESCRIPTION

The RFP identified the following portions of the City of Los Altos' (City's) sanitary sewer collection system to be repaired using CIPP:

Street Name	Sewer Segment	Existing Diameter (inch)	Existing Pipe Material	Pipe Length (feet)
El Camino Real	B3S-505 to B3S-508	27	Reinforced Concrete	281
El Camino Real	B2S-313 to A2S-504	27	Reinforced Concrete	490
El Camino Real	A2S-504 to A2S-503	27	Reinforced Concrete	143
El Camino Real	A2S-503 to A2S-501	27	Reinforced Concrete	163

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 Tel: (415) 534-7070
www.freyerlaureta.com

San Mateo Office:
 144 North San Mateo Drive
 San Mateo, CA 94401
 Tel: (650) 344-9901

Oakland Office:
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 Oakland, CA 94127
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Portions of the project limits are adjacent to the City of Mountain View (Mountain View) city limits and will likely require the future construction contractor to secure an encroachment permit from Mountain View. In addition, El Camino Real is a State Highway and work within El Camino Real will require an encroachment permit from the State of California Department of Transportation (CalTrans). Finally, F&L anticipates that the portion of the project near 4470 El Camino Real is adjacent and may potentially cross an existing easement or right of way of the San Francisco Public Utility Commission's (SFPUC's) Hetch Hetchy System potentially requiring SFPUC Project Review approval.

Up to three Valley Transportation Authority (VTA) bus stops exist within the Project limits. F&L will identify potential impacts to VTA bus stops from the sanitary sewer bypass pumping work. F&L will identify potential sanitary sewer bypass configurations that may avoid impacts to the VTA bus stops.

SCOPE OF WORK

The scope of work presented below is based on the outline provided in the RFP and indicates the anticipated deliverables for each task.

Task I: 65% Design Submittal

The development of the 65% design will include a topographic survey, review of the City provided closed circuit television (CCTV) to determine if any spot repairs may be required, develop suggested construction hours, and present F&L's initial opinion of probable cost.

Field Meeting

F&L will meet with City staff in the field to review the project segments. The goal of the field meeting will be to review the existing conditions, identify the manholes for the segments to be lined, and identify the manholes that will be utilized for the sanitary sewer bypass that is required to facilitate the CIPP work.

Topographic Survey

F&L will perform a topographic survey of the project areas shown in red in Attachment 1 to this proposal. The survey will be conducted as follows:

- Perform field topographic surveys of the sewer mains to lined and 20-feet on each side of the centerline of the sewer mains to capture visible improvements, driveways and utilities, including existing U.S.A. markings within street right of ways. The limit of work within street right of ways will be the back of sidewalk. Where no sidewalk exists, limit of work will be 5-feet from edge of pavement. Horizontal control and vertical control will be based on City Benchmarks.

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- Inverts, pipe sizes and direction of flow will be collected for sanitary sewer and storm drain lines (if any) within the limits of work.
- Easements, if any, shown on recorded maps of the area will be shown on the survey map.
- All visible clean outs will be located.
- Utility research will be performed and approximate utility locations interpreted from utility company system drawings will be drawn onto the survey base.
- Survey information will be translated to AutoCAD drawings for use in the pre-design and construction document preparation efforts.

Utility Potholing

F&L anticipates that portions of the sanitary sewer bypass may be required to be installed in a shallow trench to avoid impacts to major intersection, VTA bus stops, and driveway crossings. The exact number of utility potholes will be identified after F&L receives and reviews existing utility information from City and third party utility owners. F&L has included an allowance for up to two days of utility potholing.

Utility potholing is anticipated to occur within the CalTrans right of way and therefore an encroachment permit will be required. F&L will engage a utility potholing subcontractor to secure the CalTrans encroachment permit, prepare traffic control plan, and perform the utility potholing.

Basis of Design Report including 65% Submittal

The Basis of Design Report (Report) will include the following information:

- Present the results of F&L's review of City provided closed circuit television (CCTV) of the portions of trunk sewer to be lined with CIPP including identifying required point repairs, if any;
- Develop proposed limits of work for the contractor including suggested minimum staging areas available for the CIPP equipment including trailer and boiler used for the work;
- Develop preliminary construction schedule including potential construction sequencing plan;
- Prepare estimates for sanitary sewer bypass flow rates based on available flow data provided by the City and/or the Palo Alto Water Quality Control Plant;
- Identify limits of project area located adjacent to Mountain View right of way that may require a separate review and encroachment permit;
- Identify limits of project area located within the CalTrans right of way that will require a separate review and encroachment permit;
- Identify limits of the project area located within or adjacent to the SFPUC easement or right of way that may require a separate review;
- Identify potential impacts to Valley Transportation Authority (VTA) bus stops.

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- Present 65% plan drawings;
- Present technical specifications formatted consistent with the City's Front End Contract Specifications and General Conditions.; and
- Present opinion of probable cost.

Following submittal of the BOD including the 65% Design, F&L will prepare for and chair a technical design workshop with City staff. The purpose of the workshop is to provide an opportunity for the design team and the City to review the project design details, discuss approach, respond to questions and comments, and develop a strategy for completing the next submittal.

As part of the 65% Design BOD, F&L work within the City to determine whether SFPUC Project review will be required. Based on F&L's experience, any excavation work within the SFPUC right of way or easements typically requires SFPUC to provide review and approval including issuance of an encroachment permit. F&L will review with the City the approximate location of the SFPUC easement or right of way and identify the potential work that may require SFPUC review. If desired by the City, F&L will submit the 65% design submittal to the SFPUC Project Review process for review. F&L will also attend one SFPUC Project Review meeting to present the project to the SFPUC.

F&L will also provide the 65% Design submittal to CalTrans. F&L will coordinate with CalTrans to solicit comments, if any, to incorporate into the final Bid Documents described in Task III including highlighting the required encroachment permit application process that will be completed by the City's future construction contractor.

Deliverables

- Field Meeting Notes
- Topographic map in PDF format. One hardcopy can be provided upon request.
- Utility Pothole Report.
- Two full size (22x34) sets of plans.
- Four half size (11x17) sets of plans.
- Four sets of project specifications.
- Four sets of the Basis of Design Report including the Opinion of Probable Cost.
- SFPUC Project Review Submittal including attendance at one Project Review Meeting.
- Preliminary submittal to CalTrans to initiate the encroachment permit process.
- 65% Design Technical Review Workshop meeting agenda and minutes including response to comments in PDF format.

Task II: 100% Design Submittal

Following the 65% Design Technical Review Workshop, F&L will proceed with preparation of the 100% design submittal. Our effort for this task will be to develop additional details as well as to provide drawings and technical specifications suitable for public bidding. The

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100% Submittal will include the final Basis of Design Report that includes any necessary supporting design calculations. F&L's intent for the 100% submittal is that the drawings and technical specifications would be suitable for bidding.

As part of the 100% submittal, F&L will utilize City provide Front End Contract Specifications and General Conditions to prepare the final draft submittal. F&L will identify information in the Front End Contract Specifications and General Conditions that requires City direction such as bid dates, contact names, and other contract related information that is not part of the technical specifications.

Similar to the 65% design submittal effort, F&L will organize and chair a technical design review workshop to facilitate the review and discussion of the 100% submittal. The 100% technical design review workshop will also allow the City and F&L to finalize the bid item schedule.

F&L will provide the 100% Design submittal to Mountain View. F&L will coordinate with Mountain View to solicit comments, if any, to incorporate into the final Bid Documents described in Task III including highlighting the required encroachment permit application process that will be completed by the City's future construction contractor. F&L will also coordinate with VTA if any bus stops within the Project limits will be temporarily impacted by the construction work and require temporary relocation.

Deliverables

- Two full size (22x34) sets of plans.
- Four half size (11x17) sets of plans.
- Four sets of project specifications including Front End Contract Specifications and General Conditions.
- Four sets of the Basis of Design Report.
- One copy of the Opinion of Probable Cost.
- 100% Design Technical Review Workshop meeting agenda and minutes including response to comments in PDF format.
- Preliminary submittal to the Mountain View to initiate the encroachment permit process.

Task III: Final Design Submittal

Following the 100% Design Technical Review Workshop, F&L will prepare final drawings and technical specifications that will be signed and stamped by a California Professional Engineer. F&L will also incorporate comments, if any, provided by Mountain View and CalTrans. F&L will continue coordination with SFPUC, as required, and incorporate any comments into the Final Design submittal.

Deliverables

- One full size (22x34) reproducible bond hard copy wet signed and stamped.

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- One half size (11x17) reproducible bond hard copy wet signed and stamped.
- Drawings in AutoCAD Map 3D 2017 compatible electronic format.
- One hard copy technical specifications wet signed and stamped.
- Technical specifications in PDF and MS Word 2010 compatible electronic format.
- Final Opinion of Probable Cost.
- List of required contractor submittals

Task IV: Bidding Phase

F&L will assist the City in responding to contractor questions and requests for clarification regarding the design and/or Construction Documents. Electronic copies of all responses to contractor questions and requests for clarification will be provided to the City. If necessary, an addendum will be prepared including one draft for City review.

Deliverables

- Response to bidder questions in PDF format.
- One addendum including one draft for City review in PDF format. No hard copies will be provided

Task V: Construction Phase

Construction services will be provided to assist the City in obtaining construction work that is in substantial conformance with the contract documents. Services will include the following:

- Review Submittals: Review shop drawing and submittals to provide written comments on all reviewed submittals utilizing F&L's standard submittal review letter.
- Prepare Response to Requests for Information: Respond to requests for information (RFIs) utilizing F&L's standard RFI response memorandum format.
- Provide Clarifications: Prepare letters of clarification, as required, to confirm the design intent of the Contract Documents. A draft letter will be submitted to the City for review and comment prior to issuing the final clarification for distribution to the City's selected construction contractor.
- Site Visits: Perform up to two site visits to review progress. The purpose of the site visits is to review the construction contractor's general conformance with Contract Documents while the City will be responsible for daily inspection services. Our staff will prepare daily reports for each site visit.
- Construction Meetings: In conjunction with Site Visits, attend construction coordination meetings as requested by the City.
- Record Drawings: Prepare record drawings based on contractor redlines.

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Deliverables

- Electronic copies in PDF format of all submittal review letters, Response to RFIs, clarification letters, and daily reports.
- Draft Record Drawings
- Final Record Drawings

Assumptions

The Scope of Work presented above is based on the following assumptions:

- Geotechnical investigation is not required.
- City will coordinate internal department review of all submittals.
- City will print Bid Documents for advertising.
- City will provide availability utility information for City owned utilities including any as-built information.
- City will provide copies of available sewer log and closed circuit television (CCTV) inspections at the project kickoff meeting.
- City will provide template for the Front End Contract Specifications and General Provisions.
- Permit fees will be paid by others.
- Boundary survey is not included.
- No more than two days of utility potholing will be required.

SCHEDULE

F&L will provide the Scope of Services described above within the time frames identified in the RFP. A GANTT format schedule is included as Attachment 2 to this proposal.

COMPENSATION

F&L proposes to provide the Scope of Services on a time and materials basis in accordance with our Charge Rate Schedule dated January 1, 2021. Table 1 attached to this proposal presents the estimate level of effort by task including identification of hours by staff classification.

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Please contact me at (650) 619-3226 or tarantino@freyerlaureta.com to further discuss any questions or comments.

Sincerely,

FREYER & LAURETA, INC.

A handwritten signature in black ink, appearing to read 'Jeffrey J. Tarantino', enclosed within a hand-drawn oval.

Jeffrey J. Tarantino, P.E.

Vice President

Cc: Jason Feudale (Freyer & Laureta, Inc.)

Attachments

1. Table 1 – Estimated Budget for Engineering Design Services
2. Freyer & Laureta, Inc. Charge Rate Schedule dated January 1, 2021
3. Attachment 1 – Survey Limits
4. Attachment 2 – Project Schedule

TABLE 1
ESTIMATED BUDGET FOR ENGINEERING DESIGN SERVICES
CIPP Corrosion Rehabilitation (Project WW0100521)
 City of Los Altos, California

TASKS	ESTIMATED LABOR (Hours)					TOTAL LABOR COST (\$)	EXPENSES AND ADMINISTRATION				ESTIMATED COST	
	Personnel & Rates (\$/hr)						UNIT	QNTY	UNIT COST (\$)	10% MARKUP (\$)	TOTAL COST PER ITEM (\$)	SUB TOTALS (\$)
	Administrative	2-Man Survey Crew	Staff Engineer II	Associate Engineer	Principal							
	90	350	135	170	235							
Task I - 65% Submittal												
Topographic Survey												
Field Survey		80				\$28,000					\$28,000	
Existing utility research			24	4		\$3,920					\$3,920	
Process Field Data and Prepare Topographic Map			40	8		\$6,760					\$6,760	
Internal Review					4	\$940					\$940	
Utility Potholing												
Potholing Subcontractor (Allowance)							ls	1	\$18,000	\$1,800	\$19,800	
Prepare and submit CalTrans encroachment permit for potholing			8	2	1	\$1,655	ls	1	\$1,000	\$100	\$2,755	
Coordinate field work			4			\$540					\$540	
Review pothole report			4	2	1	\$1,115					\$1,115	
Update base map			8	2	1	\$1,655					\$1,655	
Basis of Design Report												
Review City provided CCTV			4	1		\$710					\$710	
Develop construction sequencing discussion			16	8		\$3,520					\$3,520	
Finalize design criteria for CIPP liner and manhole repair (if required)			8	4		\$1,760					\$1,760	
Prepare preliminary sanitary sewer bypass layout			8	4		\$1,760					\$1,760	
Prepare draft report			24	4		\$3,920					\$3,920	
Internal Review					2	\$470					\$470	
Prepare submittal to City	1		2	1		\$530					\$530	
Coordinate with SFPUC including one Project Review Meeting			8	4	2	\$2,230					\$2,230	
65% Design Submittal												
Prepare 65% Submittal Drawings			40	8		\$6,760					\$6,760	
Prepare 65% Submittal Technical Specifications			24	8		\$4,600					\$4,600	
Prepare Opinion of Probable Cost			8	4		\$1,760					\$1,760	
Internal Review					4	\$940					\$940	
Prepare 65% Submittal	2		8	2		\$1,600	ls	1	\$500	\$50	\$2,150	
Prepare for and facilitate 65% Design Review Workshop					2	\$810					\$810	
Subtotal Labor Hours - Task I	3	80	238	68	17	\$75,955						\$97,400
									Estimated Cost - Task I			\$97,400

TABLE 1
ESTIMATED BUDGET FOR ENGINEERING DESIGN SERVICES
CIPP Corrosion Rehabilitation (Project WW0100521)
 City of Los Altos, California

TASKS	ESTIMATED LABOR (Hours)					TOTAL LABOR COST (\$)	EXPENSES AND ADMINISTRATION				ESTIMATED COST		
	Personnel & Rates (\$/hr)						UNIT	QNTY	UNIT COST (\$)	10% MARKUP (\$)	TOTAL COST PER ITEM (\$)	SUB TOTALS (\$)	
	Administrative	2-Man Survey Crew	Staff Engineer II	Associate Engineer	Principal								
	90	350	135	170	235								
Task II: 100% Design Submittal of Construction Documents													
Prepare 100% Submittal Drawings			40	8		\$6,760					\$6,760		
Prepare 100% Submittal Technical Specifications			24	8		\$4,600					\$4,600		
Prepare 100% Submittal Front End Contract Documents and General Requirements			24	8		\$4,600					\$4,600		
Prepare Updated Opinion of Probable Cost			4	2		\$880					\$880		
Internal Review					2	\$470					\$470		
Prepare 100% Submittal	2		8	2		\$1,600	ls	1	\$500	\$50	\$2,150		
Coordinate with Mountain View			8	8		\$2,440					\$2,440		
Coordinate with CalTrans			8	8		\$2,440					\$2,440		
Prepare for and facilitate 100% Design Review Workshop			2	2		\$810					\$810		
Subtotal Labor Hours - Task II	2		116	46	4	\$24,600					Estimated Cost - Task II		\$25,200
Task III: Final Design Submittal of Construction Documents													
Prepare Final Submittal Drawings			24	8		\$4,600					\$4,600		
Prepare Final Submittal Front End and Technical Specifications			20	8		\$4,060					\$4,060		
Prepare Final Opinion of Probable Cost				2		\$340					\$340		
Internal Review					1	\$235					\$235		
Prepare Final Submittal	2		2	2		\$790					\$790		
Subtotal Labor Hours - Task III	2		46	20	1	\$10,025					Estimated Cost - Task III		\$10,000
Task IV- Bidding Phase													
Prepare one addendum			8	2		\$1,420					\$1,420		
Internal Review					1	\$235					\$235		
Allowance for technical support				4	4	\$1,620					\$1,620		
Subtotal Labor Hours - Task IV			8	6	5	\$3,275					Estimated Cost - Task IV		\$3,300

TABLE 1
ESTIMATED BUDGET FOR ENGINEERING DESIGN SERVICES
CIPP Corrosion Rehabilitation (Project WW0100521)
 City of Los Altos, California

TASKS	ESTIMATED LABOR (Hours)					TOTAL LABOR COST (\$)	EXPENSES AND ADMINISTRATION				ESTIMATED COST	
	Personnel & Rates (\$/hr)						UNIT	QNTY	UNIT COST (\$)	10% MARKUP (\$)	TOTAL COST PER ITEM (\$)	SUB TOTALS (\$)
	Administrative	2-Man Survey Crew	Staff Engineer II	Associate Engineer	Principal							
	90	350	135	170	235							
Task V - Construction Phase												
Prepare Responses to Requests for Information												
Assume 5 RFIs, 2 hour per RFI plus management			10	4		\$2,030					\$2,030	
Internal Review					4	\$940					\$940	
Review submittals												
Assume 10 submittals and no resubmittals, 2 hours per submittal plus management			20	8		\$4,060					\$4,060	
Internal Review					4	\$940					\$940	
Prepare Clarifications												
Assume 2 clarifications, 4 hour per clarification plus management			8	4		\$1,760					\$1,760	
Internal Review					2	\$470					\$470	
Perform two site visit (3 hours per site visit including travel time)			6			\$810	mi	80	\$0.55	\$4	\$858	
Project Closeout (Allowance)			4	4	2	\$1,690					\$1,690	
Prepare Record Drawings												
Prepare Draft Record Drawings			8	2		\$1,420					\$1,420	
Prepare Final Record Drawings incorporating comments			2	2		\$610					\$610	
Internal Review					2	\$470					\$470	
Subtotal Labor Hours - Task V			58	24	14	\$15,200						\$15,200
Total Labor Hours	7	80	466	164	41	\$129,055	Total Estimated Cost				\$151,100	



CHARGE RATE SCHEDULE

Effective 1/1/21

Professional and technical services of Freyer & Laureta, Inc. Staff are provided on a fixed fee or an hourly rate basis as follows:

FIXED FEE

Where a definitive scope of work can be established, many of our clients prefer that a specific fee be agreed upon in advance. Billings are submitted monthly based upon percent complete as of the last accounting day of the month.

HOURLY RATE

Applicable to Plan Preparation, Design and Report services where the scope of work must remain open. Freyer & Laureta, Inc. utilizes the following hourly charge rate basis for billing purposes.

Production Aide - Clerical	\$ 90.00
Drafter I - Technical Typist - Survey Tech II	\$ 95.00
Drafter II - Word Processor	\$100.00
Engineering Tech I - Drafter III	\$ 110.00
Staff Engineer I - Engineering Tech II - Survey Tech III	\$ 130.00
Staff Engineer II - Engineering Tech III - Survey Tech IV	\$ 135.00
Staff Engineer III - Senior Engineering Tech	\$ 140.00
Staff Engineer IV - Survey Tech V – Construction Inspector	\$ 155.00
Associate Engineer - Associate Surveyor (L.L.S.)	\$ 170.00
Senior Engineer - Construction Manager	\$ 180.00
Senior Construction Inspector	\$ 180.00
Project Manager – Principal Surveyor (L.L.S.)	\$ 195.00
Senior Project Manager – Principal Surveyor (L.L.S)	\$ 210.00
Associate Principal	\$ 220.00
Principal	\$ 235.00
Forensic Engineering	\$ 330.00
Deposition and Court Appearance	\$ 415.00

Subconsultant, Reproduction, Printing, Travel, Mailing and Delivery - Cost plus 10%

Interest Charge - Billings are due and payable within 30 days. A monthly interest charge equal to the Federal Discount Rate plus 5% will be applied on the next billing beyond the 30-day payment period.

The foregoing Charge Rate Schedule is incorporated into the Agreement for the Services of Freyer & Laureta, Inc. and may be updated annually.

ATTACHMENT 1
SURVEY LIMITS

Area of survey

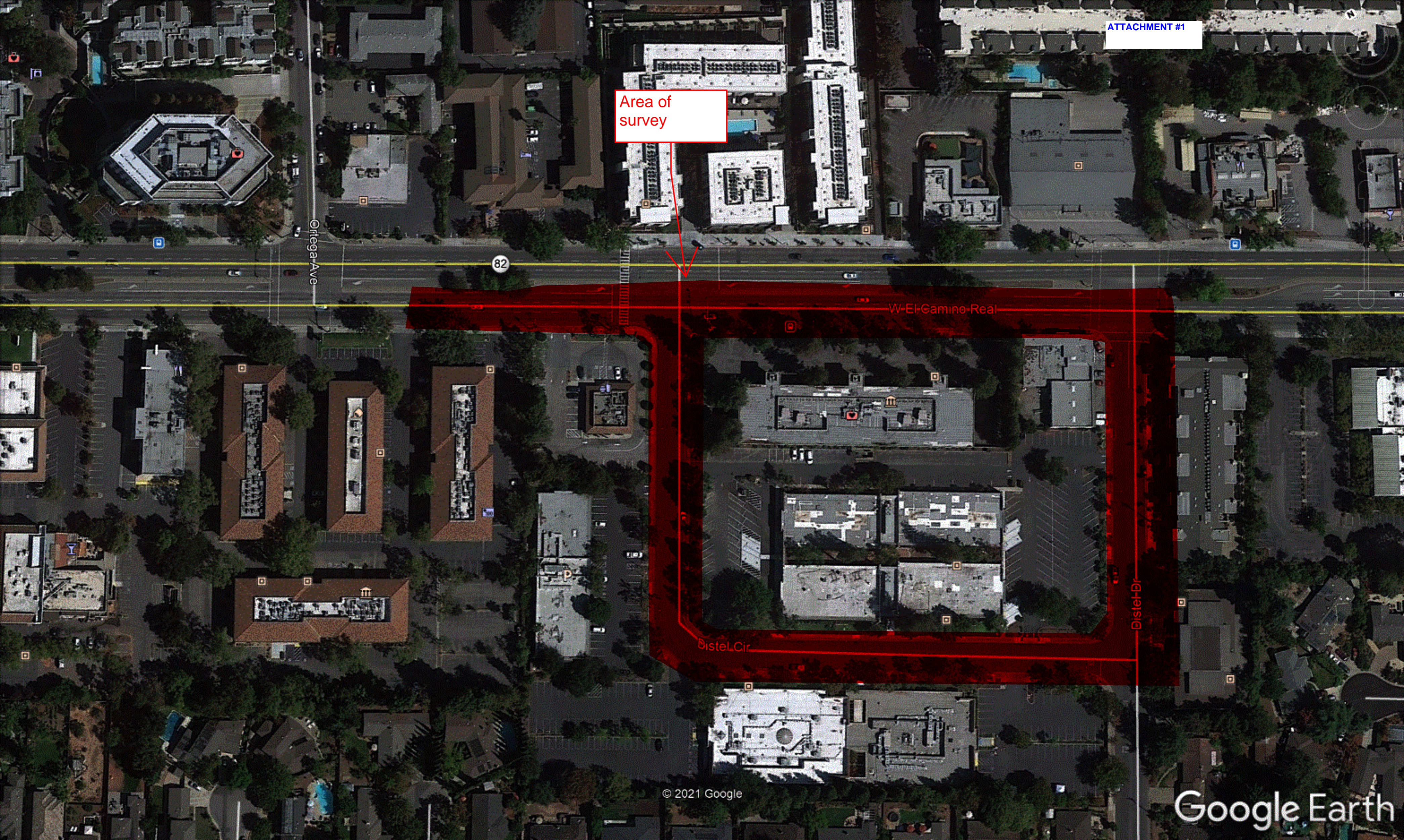
Ortega Ave

82

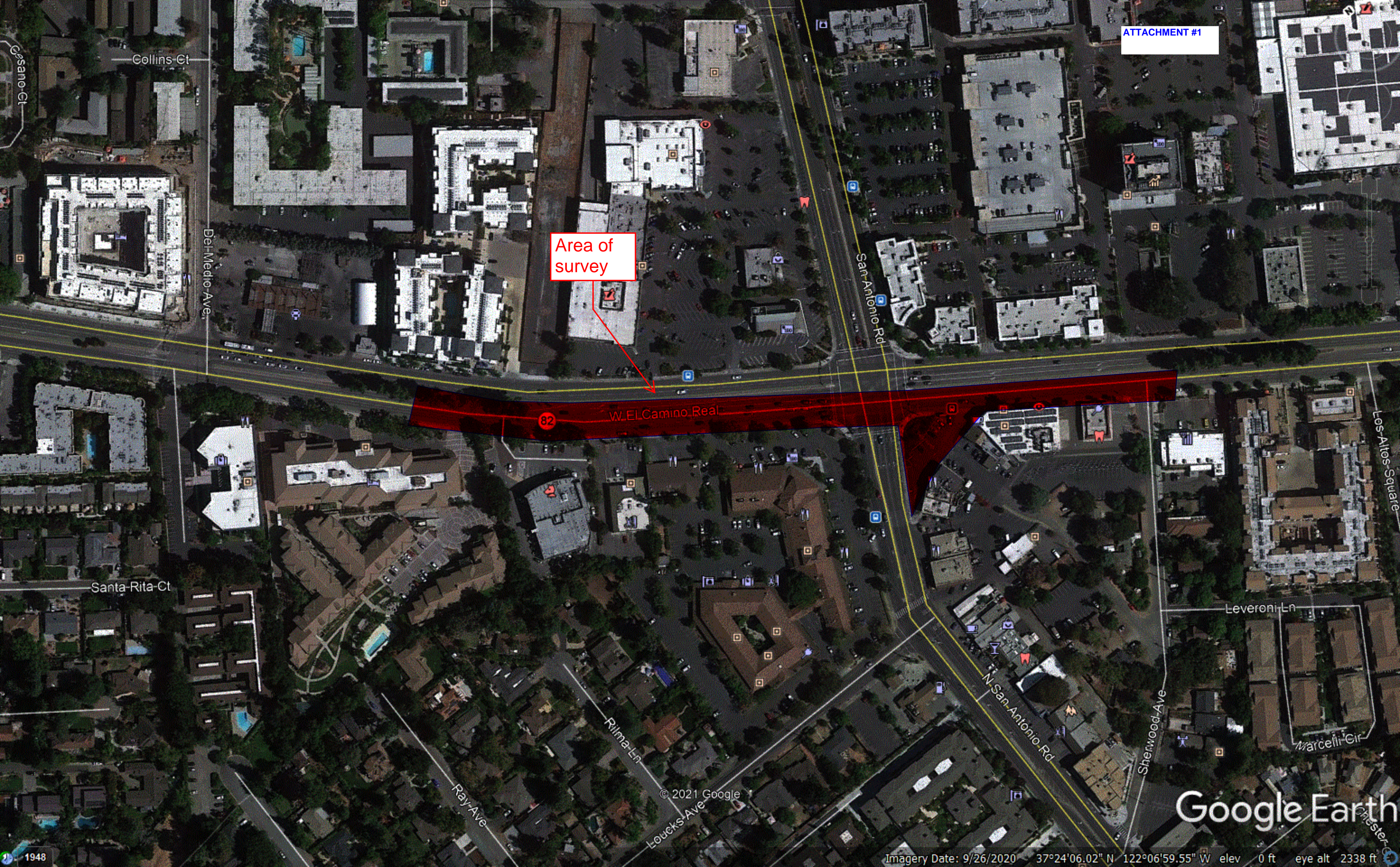
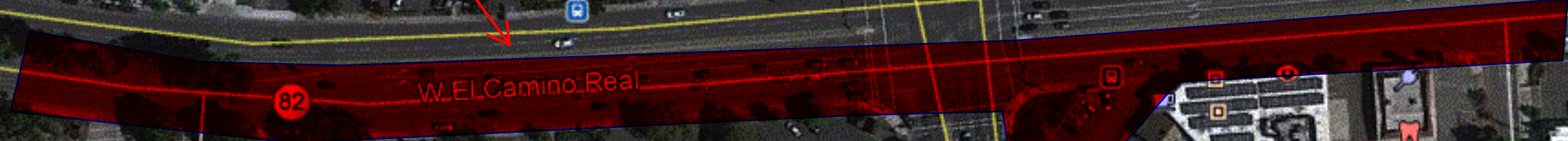
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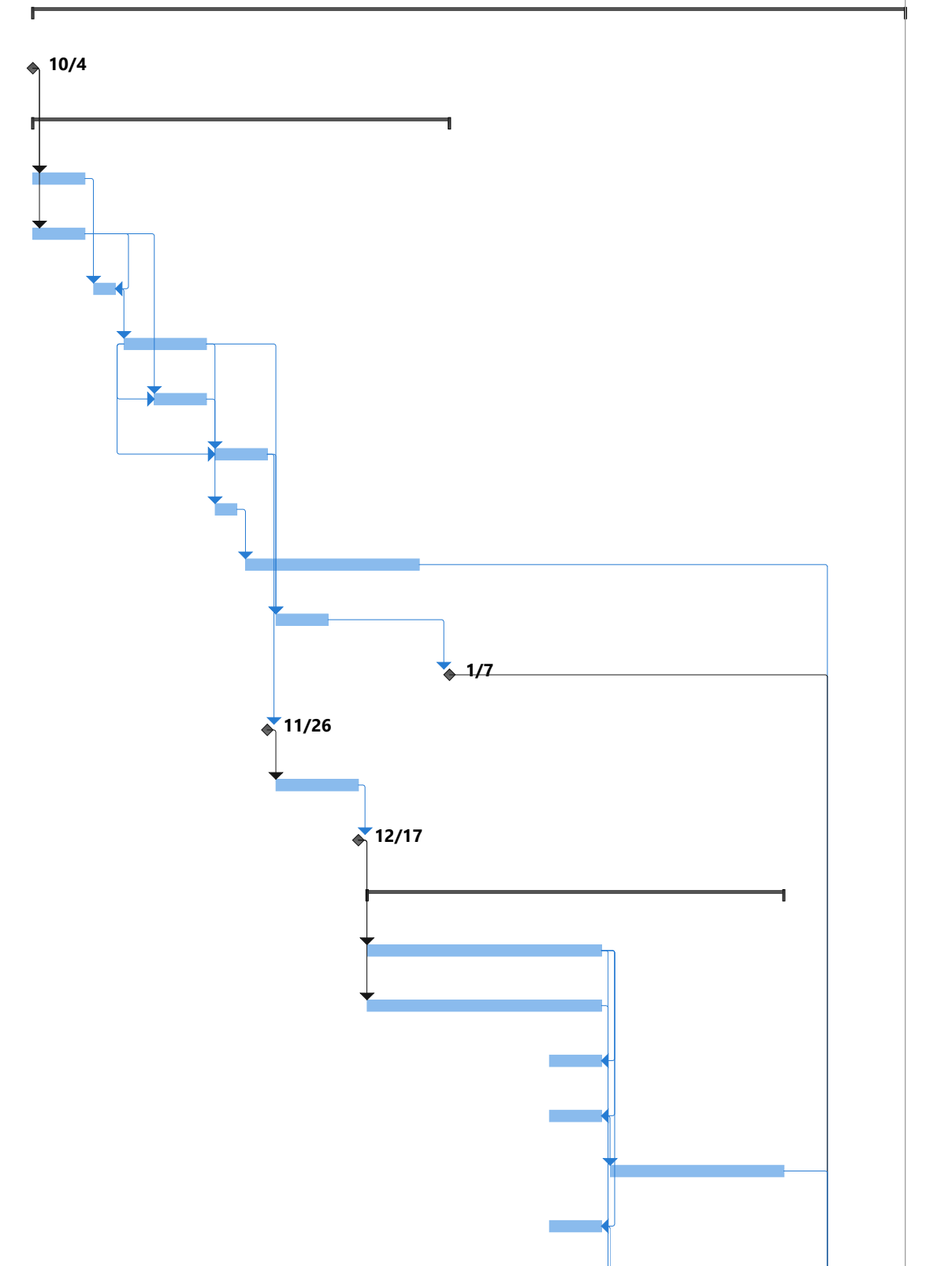
Area of survey



ATTACHMENT 2
PROJECT SCHEDULE

Project Schedule
CIPP Corrosion Rehabilitation (Project WW0100521)

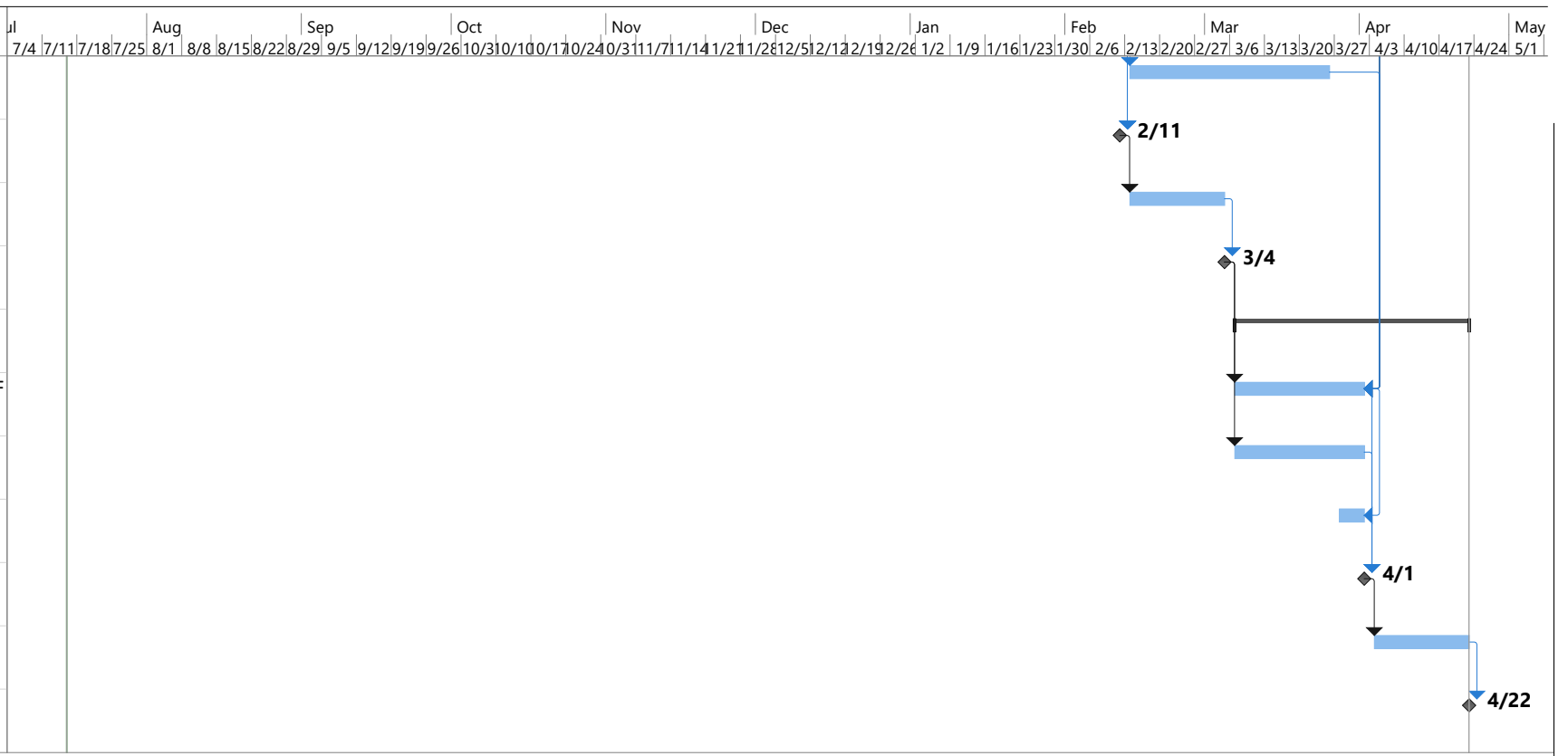
ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
1		CIPP Corrosion Rehabilitation (Project WW0100521)	145 days	Mon 10/4/21	Fri 4/22/22												
2		Notice to Proceed	0 days	Mon 10/4/21	Mon 10/4/21												
3		Task I: 65% Submittal	70 days	Mon 10/4/21	Fri 1/7/22												
4		Topographic Survey	10 days	Mon 10/4/21	Fri 10/15/21	2											
5		Request Utility As-Builts	10 days	Mon 10/4/21	Fri 10/15/21	2											
6		Prepare Base Map	5 days	Mon 10/18/21	Fri 10/22/21	4,5FF											
7		Prepare 65% design drawings	15 days	Mon 10/25/21	Fri 11/12/21	6											
8		Perform utility potholing	10 days	Mon 11/1/21	Fri 11/12/21	5,7SS+5 days											
9		Prepare 65% Basis of Design Report inc. OPC	10 days	Mon 11/15/21	Fri 11/26/21	7SS+10 days,8											
10		Prepare CalTrans Submittal	5 days	Mon 11/15/21	Fri 11/19/21	7											
11		CalTrans Review	30 days	Mon 11/22/21	Fri 12/31/21	10											
12		Prepare SFPUC Submittal	10 days	Mon 11/29/21	Fri 12/10/21	7,9											
13		SFPUC Project Review Meeting	0 days	Fri 1/7/22	Fri 1/7/22	12FS+20 days											
14		Submit 65% Design Submittal	0 days	Fri 11/26/21	Fri 11/26/21	9											
15		City Review	15 days	Mon 11/29/21	Fri 12/17/21	14											
16		65% Design Submittal Review Workshop	0 days	Fri 12/17/21	Fri 12/17/21	15											
17		Task II: 100% Design Submittal	70 days	Mon 12/20/21	Fri 3/25/22												
18		Prepare 100% design drawings	40 days	Mon 12/20/21	Fri 2/11/22	16											
19		Prepare 100% specifications	40 days	Mon 12/20/21	Fri 2/11/22	16											
20		Update OPC	10 days	Mon 1/31/22	Fri 2/11/22	18FF											
21		Prepare Mountain View submittal	10 days	Mon 1/31/22	Fri 2/11/22	18FF											
22		Mountain View Review	30 days	Mon 2/14/22	Fri 3/25/22	21											
23		Coordinate with VTA	10 days	Mon 1/31/22	Fri 2/11/22	18FF											



Project: CIPPSchedule Date: Fri 7/16/21	Task	Summary	Inactive Milestone	Duration-only	Start-only	External Milestone	Manual Progress
	Split	Project Summary	Inactive Summary	Manual Summary Rollup	Finish-only	Deadline	
	Milestone	Inactive Task	Manual Task	Manual Summary	External Tasks	Progress	

Project Schedule
CIPP Corrosion Rehabilitation (Project WW0100521)

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
24	→	VTA Review	30 days	Mon 2/14/22	Fri 3/25/22	23											
25	→	Submit 100% Design Submittal	0 days	Fri 2/11/22	Fri 2/11/22	18,19,20											
26	→	City Review	15 days	Mon 2/14/22	Fri 3/4/22	25											
27	→	100% Design Submittal Review Workshop	0 days	Fri 3/4/22	Fri 3/4/22	26											
28	→	Task III: Final Design Submittal	35 days	Mon 3/7/22	Fri 4/22/22												
29	→	Prepare final design drawings	20 days	Mon 3/7/22	Fri 4/1/22	27,22FF,24FF,11F											
30	→	Prepare final specifications	20 days	Mon 3/7/22	Fri 4/1/22	27											
31	→	Update OPC	5 days	Mon 3/28/22	Fri 4/1/22	29FF											
32	→	Submit Final Design Submittal	0 days	Fri 4/1/22	Fri 4/1/22	29,30,31											
33	→	City Review	15 days	Mon 4/4/22	Fri 4/22/22	32											
34	→	City Issue Bid Documents	0 days	Fri 4/22/22	Fri 4/22/22	33											



Project: CIPPSchedule
Date: Fri 7/16/21

Task		Summary		Inactive Milestone		Duration-only		Start-only		External Milestone		Manual Progress	
Split		Project Summary		Inactive Summary		Manual Summary Rollup		Finish-only		Deadline			
Milestone		Inactive Task		Manual Task		Manual Summary		External Tasks		Progress			