



**PROJECT
PLANS AND SPECIFICATIONS
FOR
2026 ANNUAL STREET REPAIR AND RESURFACING
25-811-9901**

**Bid Opening
Wednesday, April 15, 2026, 2:00 pm**

ISSUE DATE: March 27, 2026

**2026 ANNUAL STREET REPAIR AND RESURFACING
25-811-9901**

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1. NOTICE INVITING BIDS

1.1. Bid Submission

The Town of Los Gatos ("Town") will accept electronic bids for its Project # 2026 Annual Street Repair and Resurfacing Project #25-811-9901 ("Project"), by or before Wednesday, April 15, 2026, at 2:00 pm, via the Town's bidding site at <https://procurement.opengov.com/portal/losgatosca>, at which time the bids will be opened electronically, as further specified in the Instructions to Bidders.

1.2. Project Information

- A. **Location and Description** - The Project includes adjusting utilities, performing dig outs, installing rubber cape seal and micro surfacing, milling the existing pavement, installing hot mix asphalt overlay, placing new pavement stripes and markings, and associated work in the town of Los Gatos, as shown in **Appendix A**, "Locations of Work," incorporated herein.
- B. **Time for Final Completion** - The Project must be fully completed within 80 calendar days from the start date set forth in the Notice to Proceed. **Estimated Cost.** The estimated construction cost is \$2,570,000.

1.3. License and Registration Requirements

- A. **License** - This Project requires a valid California contractor's license for the following classification(s): A.
- B. **DIR Registration** - Town may not accept a Bid Proposal from or enter into the Contract with a bidder, without proof that the bidder is registered with the California Department of Industrial Relations ("DIR") to perform public work pursuant to Labor Code § 1725.5, subject to limited legal exceptions.

1.4. Contract Documents

The plans, specifications, bid forms and contract documents for the Project, and any addenda thereto ("Contract Documents") may be downloaded from Town's bidding site <https://procurement.opengov.com/portal/losgatosca>. Printed copy of the Contract Documents is not available from the Town.

1.5. Bid Security

The Bid Proposal must be accompanied by bid security of ten percent of the maximum bid amount, in the form of a cashier's or certified check made payable to Town, or a bid bond executed by a surety licensed to do business in the State of California on the Bid Bond form included with the Contract Documents. The bid security must guarantee that within ten days after Town issues the Notice of Potential Award, the successful bidder will execute the Contract and submit the payment and performance bonds, insurance certificates and endorsements, valid Certificates of Reported Compliance as required under the California Air Resources Board's In-Use Off-Road Diesel-Fueled Fleets Regulation (13 CCR § 2449 et seq.) ("Off-Road Regulation"), if applicable, and any other submittals required by the Contract Documents and as specified in the Notice of Potential Award.

1.6. Prevailing Wage Requirements

- A. **General** - Pursuant to California Labor Code § 1720 et seq., this Project is subject to the prevailing wage requirements applicable to the locality in which the Work is to be performed for each craft, classification or type of worker needed to perform the Work, including employer payments for health and welfare, pension, vacation, apprenticeship and similar purposes.

- B. **Rates** - The prevailing rates are on file with the Town and are available online at <http://www.dir.ca.gov/DLSR>. Each Contractor and Subcontractor must pay no less than the specified rates to all workers employed to work on the Project. The schedule of per diem wages is based upon a working day of eight hours. The rate for holiday and overtime work must be at least time and one-half.
- C. **Compliance** - The Contract will be subject to compliance monitoring and enforcement by the DIR, under Labor Code § 1771.4.

1.7. Retention

The percentage of retention that will be withheld from progress payments is 5 %.

1.8. Performance and Payment Bonds

The successful bidder will be required to provide performance and payment bonds, each for 100% of the Contract Price, as further specified in the Contract Documents.

1.9. Substitution of Securities

Substitution of appropriate securities in lieu of retention amounts from progress payments is permitted under Public Contract Code § 22300

1.10. Subcontractor List

Each Subcontractor must be registered with the DIR to perform work on public projects. Each bidder must submit a completed Subcontractor List form with its Bid Proposal, including the name, location of the place of business, California contractor license number, DIR registration number, and percentage of the Work to be performed (based on the base bid price) for each Subcontractor that will perform Work or service or fabricate or install Work for the prime contractor in excess of one-half of 1% of the bid price, using the Subcontractor List form included with the Contract Documents.

1.11. Instructions to Bidders

All bidders should carefully review the Instructions to Bidders for more detailed information before submitting a Bid Proposal. The definitions provided in Article 1 of the General Conditions apply to all of the Contract Documents, as defined therein, including this Notice Inviting Bids.

By: **/s/ Wendy Wood, Town Clerk**

Publication Date: Friday, March 27, 2026

2. Instructions to Bidders

Each Bid Proposal submitted to **Town of Los Gatos** ("Town") for its 2026 Annual Street Repair and Resurfacing Project #25-811-9901 ("Project") must be submitted in accordance with the following instructions and requirements:

2.1. Bid Submission

- A. **General** - Each bidder must register for an account on the Town's bidding site, <https://procurement.opengov.com/portal/losgatosca> to submit the Bid Proposal electronically. Plans, Specifications, and Addendums (if any) may be viewed and downloaded free of charge via the internet at <https://procurement.opengov.com/portal/losgatosca>. To be included on the Plan Holder's List for the Project, registered users must download the Plans and Specifications from the bidding website. Each Bid Proposal must be completed and submitted electronically through the bidding site, with all required forms and attachments, by or before the date and time set forth in Section 1 of the Notice Inviting Bids, or as amended by subsequent addendum. Faxed or emailed Bid Proposals will not be accepted. Late submissions will not be considered. Town reserves the right to postpone the date or time for receiving or opening bids. Each bidder is solely responsible for all of its costs to prepare and submit its bid and by submitting a bid waives any right to recover those costs from Town. The bid price(s) must include all costs to perform the Work as specified, including all labor, material, supplies, and equipment and all other direct or indirect costs such as applicable taxes, insurance and overhead.
- B. **Bid Opening** - Bids timely submitted via the Town's bidding portal will be opened and publicly read aloud during a Zoom meeting after bids have closed on the day and time listed above. Here is the Zoom link to participate:
- <https://losgatosca-gov.zoom.us/j/82694940945> Webinar ID: 826 9494 0945
- A. **DIR Registration** - Subject to limited legal exceptions for joint venture bids and federally-funded projects, Town may not accept a Bid Proposal from a bidder without proof that the bidder is registered with the DIR to perform public work under Labor Code § 1725.5. If Town is unable to confirm that the bidder is currently registered with the DIR, Town may disqualify the bidder and disregard its bid. (Labor Code §§ 1725.5 and 1771.1(a).)

2.2. Bid Proposal

A Bid Proposal submitted with exceptions or terms such as "negotiable," "will negotiate," or similar, will be considered nonresponsive. Each Bid Proposal must be accompanied by bid security, as set forth in Section titled "Bid Security" below, and by a completed Subcontractor List and Non-Collusion Declaration using the forms included with the Contract Documents, and any other required enclosures, as applicable.

2.3. Bid Security

Each Bid Proposal must be accompanied by bid security of ten percent of the maximum bid amount, in the form of a cashier's check or certified check, made payable to the Town, or bid bond using the form included in the Contract Documents and executed by a surety licensed to do business in the State of California. The bid security must guarantee that, within ten days after issuance of the Notice of Potential Award, the bidder will: execute and submit the enclosed Contract for the bid price; submit payment and performance bonds for 100% of the maximum Contract Price; submit the insurance certificates and endorsements; and submit valid Certificates of Reported Compliance as required by the Off-Road Regulation, if applicable, and any other submittals, if any, required by the Contract Documents or the Notice of Potential Award. A Bid Proposal may not be withdrawn for a period of 60 days after the bid opening without forfeiture of the bid security, except as authorized for material error under Public Contract Code § 5100 et seq.

2.4. Liquidated Damages

As further specified in Section 5.4 of the General Conditions, if Contractor fails to complete the Work within the Contract Time, Town will assess liquidated damages in the amount of \$7,000 per day for each day of unexcused delay in achieving Final Completion, and such liquidated damages may be deducted from Town's payments due or to become due to Contractor under this Contract.

2.5. Requests for Information

Questions or requests for clarifications regarding the Project, the bid procedures, or any of the Contract Documents must be submitted through the Town's bidding site <https://procurement.opengov.com/portal/losgatosca> and received a minimum of five (5) working days prior to the scheduled bid opening. Oral responses are not authorized and are not binding on the Town. Bidders should submit any such written inquiries at least five Working Days before the scheduled bid opening. Questions received any later might not be addressed before the bid deadline. An interpretation or clarification by Town in response to Questions or requests for clarifications will be issued through an addendum no later than 72 hours prior to bid opening.

2.6. Pre-Bid Investigation

- A. **General** - Each bidder is solely responsible at its sole expense for diligent and thorough review of the Contract Documents, examination of the Project site, and reasonable and prudent inquiry concerning known and potential site and area conditions prior to submitting a Bid Proposal. Each bidder is responsible for knowledge of conditions and requirements which reasonable review and investigation would have disclosed. However, except for any areas that are open to the public at large, bidders may not enter property owned or leased by the Town or the Project site without prior written authorization from Town.
- B. **Document Review** - Each bidder is responsible for review of the Contract Documents and any informational documents provided "For Reference Only," e.g., as-builts, technical reports, test data, and the like. A bidder is responsible for notifying Town of any errors, omissions, inconsistencies, or conflicts it discovers in the Contract Documents, acting solely in its capacity as a contractor and subject to the limitations of Public Contract Code § 1104. Notification of any such errors, omissions, inconsistencies, or conflicts must be submitted in writing to the Town no later than five Working Days before the scheduled bid opening. (See Section 5, above.) Town expressly disclaims responsibility for assumptions a bidder might draw from the presence or absence of information provided by Town.
- C. **Project Site** - Questions regarding the availability of soil test data, water table elevations, and the like should be submitted to the Town through the bidding site, as specified in Section 5, above. Any subsurface exploration at the Project site must be done at the bidder's expense, but only with prior written authorization from Town. All soil data and analyses available for inspection or provided in the Contract Documents apply only to the test hole locations. Any water table elevation indicated by a soil test report existed on the date the test hole was drilled. The bidder is responsible for determining and allowing for any differing soil or water table conditions during construction. Because groundwater levels may fluctuate, difference(s) in elevation between ground water shown in soil boring logs and ground water actually encountered during construction will not be considered changed Project site conditions. Actual locations and depths must be determined by bidder's field investigation. The bidder may request access to underlying or background information on the Project site in Town's possession

that is necessary for the bidder to form its own conclusions, including, if available, record drawings or other documents indicating the location of subsurface lines, utilities, or other structures.

- D. **Utility Company Standards** - The Project must be completed in a manner that satisfies the standards and requirements of any affected utility companies or agencies (collectively, “utility owners”). The successful bidder may be required by the third party utility owners to provide detailed plans prepared by a California registered civil engineer showing the necessary temporary support of the utilities during coordinated construction work. Bidders are directed to contact the affected third party utility owners about their requirements before submitting a Bid Proposal.

2.7. Bidders Interested in More Than One Bid

No person, firm, or corporation may submit or be a party to more than one Bid Proposal unless alternate bids are specifically called for. However, a person, firm, or corporation that has submitted a subcontract proposal or quote to a bidder may submit subcontract proposals or quotes to other bidders.

2.8. Addenda

Any addenda issued prior to the bid opening are part of the Contract Documents. Subject to the limitations of Public Contract Code § 4104.5, Town reserves the right to issue addenda prior to bid time. Each bidder is solely responsible for ensuring it has received and reviewed all addenda prior to submitting its bid. Bidders should check Town’s site periodically for any addenda or updates on the Project at <https://procurement.opengov.com/portal/losgatosca>.

2.9. Brand Designations and “Or Equal” Substitutions

Any specification designating a material, product, thing, or service by specific brand or trade name, followed by the words “or equal,” is intended only to indicate quality and type of item desired, and bidders may request use of any equal material, product, thing, or service. All data substantiating the proposed substitute as an equal item must be submitted with the written request for substitution. A request for substitution must be submitted within 35 days after Notice of Potential Award unless otherwise provided in the Contract Documents. This provision does not apply to materials, products, things, or services that may lawfully be designated by a specific brand or trade name under Public Contract Code § 3400(c).

2.10. Bid Protest

Any bid protest against another bidder must be submitted in writing and received by Town sent via email to Gary Heap, Town Engineer, at gheap@losgatosca.gov before 5:00 p.m. no later than two Working Days following bid opening (“Bid Protest Deadline”) and must comply with the following requirements:

- A. **General** - Only a bidder who has actually submitted a Bid Proposal is eligible to submit a bid protest against another bidder. Subcontractors are not eligible to submit bid protests. A bidder may not rely on the bid protest submitted by another bidder, but must timely pursue its own protest. For purposes of this Section 10, a “Working Day” means a day that Town is open for normal business, and excludes weekends and holidays observed by Town. Pursuant to Public Contract Code § 4104, inadvertent omission of a Subcontractor’s DIR registration number on the Subcontractor List form is not grounds for a bid protest, provided it is corrected within 24 hours of the bid opening or as otherwise provided under Labor Code § 1771.1(b).
- B. **Protest Contents** - The bid protest must contain a complete statement of the basis for the protest and must include all supporting documentation. Material submitted after the Bid Protest Deadline will not be considered.

The protest must refer to the specific portion or portions of the Contract Documents upon which the protest is based. The protest must include the name, address, email address, and telephone number of the protesting bidder and any person submitting the protest on behalf of or as an authorized representative of the protesting bidder.

- C. **Copy to Protested Bidder** - Upon submission of its bid protest to Town, the protesting bidder must also concurrently transmit the protest and all supporting documents to the protested bidder, and to any other bidder who has a reasonable prospect of receiving an award depending upon the outcome of the protest, by email or hand delivery to ensure delivery before the Bid Protest Deadline.
- D. **Response to Protest** - The protested bidder may submit a written response to the protest, provided the response is received by Town before 5:00 p.m., within two Working Days after the Bid Protest Deadline or after actual receipt of the bid protest, whichever is sooner (the "Response Deadline"). The response must attach all supporting documentation. Material submitted after the Response Deadline will not be considered. The response must include the name, address, email address, and telephone number of the person responding on behalf of or representing the protested bidder if different from the protested bidder.
- E. **Copy to Protesting Bidder** - Upon submission of its response to the bid protest to the Town, the protested bidder must also concurrently transmit by email or hand delivery, by or before the Response Deadline, a copy of its response and all supporting documents to the protesting bidder and to any other bidder who has a reasonable prospect of receiving an award depending upon the outcome of the protest.
- F. **Exclusive Remedy** - The procedure and time limits set forth in this Section are mandatory and are the bidder's sole and exclusive remedy in the event of a bid protest. A bidder's failure to comply with these procedures will constitute a waiver of any right to further pursue a bid protest, including filing a Government Code Claim or initiation of legal proceedings.
- G. **Right to Award** - Town reserves the right, acting in its sole discretion, to reject any bid protest that it determines lacks merit, to award the Contract to the bidder it has determined to be the responsible bidder submitting the lowest responsive bid, and to issue a Notice to Proceed with the Work notwithstanding any pending or continuing challenge to its determination.

2.11. Reservation of Rights

Town reserves the unfettered right, acting in its sole discretion, to waive or to decline to waive any immaterial bid irregularities; to accept or reject any or all bids; to cancel or reschedule the bid; to postpone or abandon the Project entirely; or to perform all or part of the Work with its own forces. The Contract will be awarded, if at all, within 60 days after opening of bids or as otherwise specified in the Special Conditions, to the responsible bidder that submitted the lowest responsive bid. Any planned start date for the Project represents the Town's expectations at the time the Notice Inviting Bids was first issued. Town is not bound to issue a Notice to Proceed by or before such planned start date, and it reserves the right to issue the Notice to Proceed when the Town determines, in its sole discretion, the appropriate time for commencing the Work. The Town expressly disclaims responsibility for any assumptions a bidder might draw from the presence or absence of information provided by the Town in any form. Each bidder is solely responsible for its costs to prepare and submit a bid, including site investigation costs.

2.12. Bonds

Within ten calendar days following Town’s issuance of the Notice of Potential Award to the successful bidder, the bidder must submit payment and performance bonds to Town as specified in the Contract Documents using the bond forms included in the Contract Documents. All required bonds must be calculated on the maximum total Contract Price as awarded, including additive alternates, if applicable.

2.13. License(s)

The successful bidder and its Subcontractor(s) must possess the California contractor’s license(s) in the classification(s) required by law to perform the Work. The successful bidder must also obtain a Town business license within ten (10) days following Town’s issuance of the Notice of Potential Award. Subcontractors must also obtain a Town business license before performing any Work.

2.14. Ineligible Subcontractor

Any Subcontractor who is ineligible to perform work on a public works project under Labor Code §§ 1777.1 or 1777.7 is prohibited from performing work on the Project.

2.15. Safety Orders

If the Project includes construction of a pipeline, sewer, sewage disposal system, boring and jacking pits, or similar trenches or open excavations, which are five feet or deeper, each bid must include a bid item for adequate sheeting, shoring, and bracing, or equivalent method, for the protection of life or limb, which comply with safety orders as required by Labor Code § 6707.

2.16. In-Use Off-Road Diesel-Fueled Fleets

If the Project involves the use of vehicles subject to the California Air Resources Board’s In-Use Off-Road Diesel-Fueled Fleets Regulation (13 CCR § 2449 et seq.) (“Off-Road Regulation”), then within ten calendar days following Town’s issuance of the Notice of Potential Award to the successful bidder, the bidder must submit to Town valid Certificates of Reported Compliance for its fleet and its listed Subcontractors, if applicable, in accordance with the Off-Road Regulation, unless exempt under the Off-Road Regulation.

2.17. Additive and Deductive Alternates

As required by Public Contract Code § 20103.8, if this bid solicitation includes additive or deductive items, the following method will be used to determine the lowest bid: The lowest bid will be the lowest bid price on the base contract without consideration of the prices on the additive or deductive items.

2.18. Bid Schedule

Each bidder must complete the Bid Schedule form with unit prices as indicated, and submit the completed Bid Schedule with its Bid Proposal.

- A. **Estimated Quantities** - Unless identified as a “Final Pay Quantity,” the quantities shown on the Bid Schedule are estimated and the actual quantities required to perform the Work may be greater or less than the estimated amount. The Contract Price will be adjusted to reflect the actual quantities required for the Work based on the itemized or unit prices provided in the Bid Schedule, with no allowance for anticipated profit for quantities that are deleted or decreased, and no increase in the unit price, and without regard to the percentage increase or decrease of the estimated quantity and the actual quantity.

2.19. For Reference Only

The following documents are provided “For Reference Only,” as defined in Section 3.4 of the General Conditions:

- Attachment A-Locations of Work
- Attachment B-Standard Plans
- Attachment C-Sample Contract
- Attachment D-Labor Bond
- Attachment E-Performance Bond
- Attachment F-Blueprint for a Clean Bay
- Attachment G-Town of Los Gatos Storm Water Pollution Control Ordinance

3. Bid Schedule

This Bid Schedule must be completed and included with the Bid Proposal. Pricing must be provided for each Bid Item as indicated. Items marked “(SW)” are Specialty Work that must be performed by a qualified Subcontractor. The lump sum or unit cost for each item must be inclusive of all costs, whether direct or indirect, including profit and overhead. The sum of all amounts entered in the “Extended Total Amount” column must be identical to the Base Bid price entered in Section 1 of the Bid Proposal form.

AL = Allowance CF = Cubic Feet CY = Cubic Yard EA = Each LB = Pounds
 LF = Linear Foot LS = Lump Sum SF = Square Feet TON = Ton (2000 lbs)

BASE BID

Item	Description	Unit	Quantity	Unit Cost	Total
1.	Traffic Control	L.S.	1		
2.	Tree Trimming	L.S.	1		
3.	Adjust Sanitary Sewer Manhole to Grade	Ea.	27		
4.	Adjust Storm Manhole to Grade	Ea.	15		
5.	Adjust Survey Monument Cover to Grade	Ea.	24		
6.	Adjust Water Valve Cover to Grade (Revocable)	Ea.	51		
7.	Adjust Water Meter Box to Grade (Revocable)	Ea.	5		
8.	Adjust Gas Valve to Grade	Ea.	6		
9.	Adjust Sanitary Sewer Clean Out to Grade	Ea.	4		
10.	Adjust Vault to Grade (Ea.)	Ea.	2		
11.	Install New Monument Lid G5 Christy Box	Ea.	3		
12.	2" Hot Mix Asphalt (HMA) Overlay	Ton	3,310		
13.	4" Hot Mix Asphalt (HMA) Overlay	Ton	380		

Item	Description	Unit	Quantity	Unit Cost	Total
14.	Hot Mix Asphalt (HMA) Leveling Course	Ton	285		
15.	2" Depth Dig Outs	S.F.	24,200		
16.	4" Depth Dig Outs	S.F.	5,000		
17.	6' Wedge Grind	L.F.	4,200		
18.	18' Wedge Grind	L.F.	570		
19.	Asphalt Removal-2" Depth	S.Y.	27,150		
20.	Asphalt Removal-4" Depth	S.Y.	1,700		
21.	Crack Sealing	L.S.	1		
22.	Asphalt Rubber Cape Seal	S.Y.	6,700		
23.	Micro Surfacing (Black Aggregate)	S.Y.	29,300		
24.	Remove Existing Loops and Video Detection System	L.S.	1		
25.	Furnish and Install New Video Detection Camera	Ea.	4		
26.	Pavement Marker and Striping Removal	L.S.	1		
27.	Detail 2 Striping-Thermoplastic	L.F.	550		
28.	Detail 9 Striping-Thermoplastic	L.F.	570		
29.	Detail 22 Striping-Thermoplastic	L.F.	2,500		
30.	Detail 24 Striping-Thermoplastic	L.F.	45		
31.	Detail 27B Striping-Thermoplastic	L.F.	115		
32.	Detail 29 Striping-Thermoplastic	L.F.	200		
33.	Detail 38 Striping-Thermoplastic	L.F.	890		

Item	Description	Unit	Quantity	Unit Cost	Total
34.	Detail 39 Striping-Thermoplastic	L.F.	520		
35.	12" Limit Line (Stop Line) (White)-Thermoplastic	L.F.	530		
36.	Crosswalk (White)-Thermoplastic	L.F.	600		
37.	Crosswalk-TLG Std. TR-I (White)-Thermoplastic	L.F.	18,500		
38.	Crosswalk-TLG Std. TR-I (Yellow)-Thermoplastic	L.F.	1,830		
39.	4" Hatch (Red)-Thermoplastic	L.F.	1,360		
40.	4" Hatch (White)-Thermoplastic	L.F.	1,900		
41.	4" Hatch (Yellow)-Thermoplastic	L.F.	180		
42.	6" Hatch (White)-Thermoplastic	L.F.	690		
43.	STOP Legend-Thermoplastic	Ea.	23		
44.	KEEP Legend-Thermoplastic	Ea.	1		
45.	CLEAR Legend-Thermoplastic	Ea.	1		
46.	25 Legend-Thermoplastic	Ea.	4		
47.	Employee Permit Parking Legend-Thermoplastic	Ea.	3		
48.	Type I Arrow-Thermoplastic	Ea.	3		
49.	Type IV (L) Arrow-Thermoplastic	Ea.	4		
50.	Type IV (R) Arrow-Thermoplastic	Ea.	16		
51.	Type VII (L) Arrow-Thermoplastic	Ea.	4		
52.	On-Street Parking "T"-TLG Std. TR-L-Thermoplastic	Ea.	64		
53.	Off-Street Parking Double Stripe-TLG Std. ST-264-Thermoplastic	Ea.	96		

Item	Description	Unit	Quantity	Unit Cost	Total
54.	Accessible Parking-TLG Std. ST-265-Thermoplastic	Ea.	1		
55.	Blue Curb	L.F.	44		
56.	Red Curb	L.F.	4,870		
57.	White Curb	L.F.	525		
58.	School Bus Only Curb Marking	Ea.	5		
59.	Green Back Bike Lane Symbol with Arrow Legend TLG-Std. TR-A-Thermoplastic	Ea.	2		
60.	Green Bike Lane-Thermoplastic	L.F.	910		
61.	Dashed Green Bike Lane-Thermoplastic	L.F.	180		
62.	Shared Roadway Bicycle Marking-TLG Std. TR-G-Thermoplastic	Ea.	16		
63.	Blue Reflective Pavement Marker	Ea.	24		
64.	Remove Existing Concrete and Wood Wheel Stops	L.S.	1		
65.	Install New 3' Wheel Stop	Ea.	57		
66.	Remove and Salvage Signs on Existing Post	Ea.	2		
67.	Install New Sign on Existing Post	Ea.	1		
TOTAL					

ADDITIVE ALTERNATE 1

Item	Description	Unit	Quantity	Unit Cost	Total
A1.1.	Adjust Sanitary Sewer Manhole to Grade	Ea.	10		

Item	Description	Unit	Quantity	Unit Cost	Total
A1.2.	Adjust Survey Monument Cover to Grade	Ea.	9		
A1.3.	Adjust Water Valve Cover to Grade (Revocable)	Ea.	1		
A1.4.	Install New Monument Lid G5 Christy Box	Ea.	1		
A1.5.	Hot Mix Asphalt (HMA) Leveling Course	Ton	130		
A1.6.	2" Depth Dig Outs	S.F.	30		
A1.7.	4" Depth Dig Outs	S.F.	1,400		
A1.8.	6' Wedge Grind	L.F.	1,110		
A1.9.	18' Wedge Grind	L.F.	120		
A1.10.	Asphalt Rubber Cape Seal	S.Y.	8,900		
A1.11.	12" Limit Line (Stop Line) (White)-Thermoplastic	L.F.	50		
A1.12.	STOP Legend-Thermoplastic	Ea.	2		
A1.13.	Blue Reflective Pavement Marker	Ea.	7		
TOTAL					

4. Vendor Questionnaire

1. Formation date of company*

*Response required

2. Number of years providing the specified services*

*Response required

3. Please list names and titles of all officers and directors. If an individual or partnership, please list names and addresses of all partners, indicating whether they are general or limited partners.*

*Response required

4. Indicate whether Proposer has ever failed to complete any Agreement awarded to it. If so, note when, where, and why. Attach additional sheets, if necessary. *

*Response required

5. Indicate whether Proposer has been or is the subject of a bankruptcy or insolvency proceeding or subject to assignment for the benefit of creditors. *

*Response required

6. Will you be using subcontractor/s?*

Yes

No

*Response required

When equals "Yes"

6.1. Subcontractor's list*

Please download the below documents, complete, and upload.

- [Subcontractors list.pdf](#)

*Response required

7. Please provide Bid Bond*

Please download the below documents, complete, and upload.

- [bid_bond.pdf](#)

*Response required

8. Noncollusion Declaration*

Please download the below documents, complete, and upload.

- [Noncollusion declaration fo...](#)

*Response required

9. Bidder's Certifications and Warranties. *

By confirming and submitting this Bid Proposal, Bidder certifies and warrants the following:

- Examination of Contract Documents.** Bidder has thoroughly examined the Contract Documents and represents that, to the best of Bidder's knowledge, there are no errors, omissions, or discrepancies in the Contract Documents, subject to the limitations of Public Contract Code § 1104.
- Addenda.** Bidder agrees that it has confirmed receipt of or access to, and reviewed, all addenda issued for this bid. Bidder waives any claims it might have against the Town based on its failure to receive, access, or review any addenda for any reason.
- Examination of Worksite.** Bidder has had the opportunity to examine the Worksite and local conditions at the Project location.
- Bidder Responsibility.** Bidder is a responsible bidder, with the necessary ability, capacity, experience, skill, qualifications, workforce, equipment, and resources to perform or cause the Work to be performed in accordance with the Contract Documents and within the Contract Time.

- E. **Responsibility for Bid.** Bidder has carefully reviewed this Bid Proposal and is solely responsible for any errors or omissions contained in its completed bid. All statements and information provided in this Bid Proposal and enclosures are true and correct to the best of Bidder’s knowledge.
- F. **Nondiscrimination.** In preparing this bid, the Bidder has not engaged in discrimination against any prospective or present employee or Subcontractor on grounds of race, color, ancestry, national origin, ethnicity, religion, sex, sexual orientation, age, disability, or marital status.
- G. **Iran Contracting Act.** If the Contract Price exceeds \$1,000,000, Bidder is not identified on a list created under the Iran Contracting Act, Public Contract Code § 2200 et seq. (the “Act”), as a person engaging in investment activities in Iran, as defined in the Act, or is otherwise expressly exempt under the Act.

Please confirm

*Response required

10. Award of Contract*

Award of Contract. By confirming and submitting this Bid Proposal, Bidder agrees that, if Town issues the Notice of Potential Award to Bidder, then within ten days following issuance of the Notice of Potential Award to Bidder, Bidder will do all of the following:

- A. **Execute Contract.** Enter into the Contract with Town in accordance with the terms of this Bid Proposal, by signing and submitting to Town the Contract prepared by Town using the form included with the Contract Documents;
- B. **Submit Required Bonds.** Submit to Town a payment bond and a performance bond, each for 100% of the Contract Price, using the bond forms provided and in accordance with the requirements of the Contract Documents;
- C. **Insurance Requirements.** Submit to Town the insurance certificate(s) and endorsement(s) as required by the Contract Documents; and
- D. **Certificates of Reported Compliance.** Submit to Town valid Certificates of Reported Compliance for its fleet and its listed Subcontractors, if applicable, if the Project involves the use of vehicles subject to the Off-Road Regulation. (See Section 16 of the Instructions to Bidders.)

Please confirm

*Response required

5. General Conditions

Article 1 - Definitions

Definitions - The following definitions apply to all of the Contract Documents unless otherwise indicated, e.g., additional definitions that apply solely to the Specifications or other technical documents. Defined terms and titles of documents are capitalized in the Contract Documents, with the exception of the following (in any tense or form): “day,” “furnish,” “including,” “install,” “work day,” or “working day.”

Allowance means a specific amount that must be included in the Bid Proposal for a specified purpose.

Article, as used in these General Conditions, means a numbered Article of the General Conditions, unless otherwise indicated by the context.

Change Order means a written document duly approved and executed by Town, which changes the scope of Work, the Contract Price, or the Contract Time.

Claim means a separate demand by Contractor for a change in the Contract Time or Contract Price, that has previously been submitted to Town in accordance with the requirements of the Contract Documents, and which has been rejected by Town, in whole or in part; or a written demand by Contractor objecting to the amount of Final Payment.

Contract means the signed agreement between Town and Contractor for performing the Work required for the Project, and all documents expressly incorporated therein.

Contract Documents means, collectively, all of the documents listed as such in Section 2 of the Contract, including the Notice Inviting Bids; the Instructions to Bidders; addenda, if any; the Bid Proposal and attachments thereto; the Contract; the Notice of Potential Award and Notice to Proceed; the payment and performance bonds; the General Conditions; the Special Conditions; the Project Plans and Specifications; any Change Orders; and any other documents which are clearly and unambiguously made part of the Contract Documents. The Contract Documents do not include documents provided "For Reference Only," or documents that are intended solely to provide information regarding existing conditions.

Contract Price means the total compensation to be paid to Contractor for performance of the Work, as set forth in the Contract and as may be amended by Change Order or adjusted for an Allowance. The Contract Price is not subject to adjustment due to inflation or due to the increased cost of labor, material, supplies, or equipment following submission of the Bid Proposal.

Contract Time means the time specified for complete performance of the Work, as set forth in the Contract and as may be amended by Change Order.

Contractor means the individual, partnership, corporation, or joint-venture that has signed the Contract with Town to perform the Work.

Day means a calendar day unless otherwise specified.

Design Professional means the licensed individual(s) or firm(s) retained by Town to provide architectural, engineering, or other design professional services for the Project. If no Design Professional has been retained for this Project, any reference to Design Professional is deemed to refer to the Engineer.

DIR means the California Department of Industrial Relations.

Drawings has the same meaning as Plans.

Engineer means the Town Engineer and his or her authorized delegees.

Excusable Delay is defined in Section 5.3(B), Excusable Delay.

Extra Work means new or unforeseen work added to the Project, as determined by the Engineer in his or her sole discretion, including Work that was not part of or incidental to the scope of the Work when the Contractor's bid was submitted; Work that is substantially different from the Work as described in the Contract Documents at bid time; or Work that results from a substantially differing and unforeseeable condition.

Final Completion means Contractor has fully completed all of the Work required by the Contract Documents to the Town's satisfaction, including all punch list items and any required commissioning or training, and has provided the Town with all required submittals, including the instructions and manuals, product warranties, and as-built drawings.

Final Payment means payment to Contractor of the unpaid Contract Price, including release of undisputed retention, less amounts withheld or deducted pursuant to the Contract Documents.

Furnish means to purchase and deliver for the Project.

Government Code Claim means a claim submitted pursuant to California Government Code § 900 et seq.

Hazardous Materials means any substance or material identified now or in the future as hazardous under any Laws, or any other substance or material that may be considered hazardous or otherwise subject to Laws governing handling, disposal, or cleanup.

Including, whether or not capitalized, means "including, but not limited to," unless the context clearly requires otherwise.

Inspector means the individual(s) or firm(s) retained or employed by Town to inspect the workmanship, materials, and manner of construction of the Project and its components to ensure compliance with the Contract Documents and all Laws.

Install means to fix in place for materials, and to fix in place and connect for equipment.

Laws means all applicable local, state, and federal laws, regulations, rules, codes, ordinances, permits, orders, and the like enacted or imposed by or under the auspices of any governmental entity with jurisdiction over any of the Work or any performance of the Work, including health and safety requirements.

Non-Excusable Delay is defined in Section 5.3(D), Non-Excusable Delay.

Plans means the Town-provided plans, drawings, details, or graphical depictions of the Project requirements, but does not include Shop Drawings.

Project means the public works project referenced in the Contract, as modified by any Project alternates elected by Town, if any.

Project Manager means the individual designated by Town to oversee and manage the Project on Town's behalf and may include his or her authorized delegee(s) when the Project Manager is unavailable. If no Project Manager has been designated for this Project, any reference to Project Manager is deemed to refer to the Engineer.

Recoverable Costs is defined in Section 5.3(F), Recoverable Costs.

Request for Information or **RFI** means Contractor's written request for information about the Contract Documents, the Work or the Project, submitted to Town in the manner and format specified by Town.

Section, when capitalized in these General Conditions, means a numbered section or subsection of the General Conditions, unless the context clearly indicates otherwise.

Shop Drawings means drawings, plan details or other graphical depictions prepared by or on behalf of Contractor, and subject to Town acceptance, which are intended to provide details for fabrication, installation, and the like, of items required by or shown in the Plans or Specifications.

Specialty Work means Work that must be performed by a specialized Subcontractor with the specified license or other special certification, and that the Contractor is not qualified to self-perform.

Specifications means the technical, text specifications describing the Project requirements, which are prepared for and incorporated into the Contract by or on behalf of Town, and does not include the Contract, General Conditions or Special Conditions.

Subcontractor means an individual, partnership, corporation, or joint-venture retained by Contractor directly or indirectly through a subcontract to perform a specific portion of the Work. The term Subcontractor applies to subcontractors of all tiers, unless otherwise indicated by the context. A third party such as a utility performing related work on the Project is not a Subcontractor, even if Contractor must coordinate its Work with the third party.

Technical Specifications has the same meaning as Specifications.

Town means the Town of Los Gatos, acting through its Town Council, officers, employees, Town Engineer, and any other authorized representatives.

Town Engineer means the Engineer for Town and his or her authorized delegee(s).

Work means all of the construction and services necessary for or incidental to completing the Project in conformance with the requirements of the Contract Documents.

Work Day or **Working Day**, whether or not capitalized, means a weekday when the Town is open for business, and does not include holidays observed by the Town.

Worksite means the place or places where the Work is performed, which includes, but may extend beyond the Project site, including separate locations for staging, storage, or fabrication.

Article 2 - Roles and Responsibilities

2.1 Town.

- A. **Town Council.** The Town Council has final authority in all matters affecting the Project, except to the extent it has delegated authority to the Engineer.
- B. **Engineer.** The Engineer, acting within the authority conferred by the Town Council, is responsible for administration of the Project on behalf of Town, including authority to provide directions to the Design Professional and to Contractor to ensure proper and timely completion of the Project. The Engineer's decisions are final and conclusive within the scope of his or her authority, including interpretation of the Contract Documents.
- C. **Project Manager.** The Project Manager assigned to the Project will be the primary point of contact for the Contractor and will serve as Town's representative for daily administration of the Project on behalf of Town. Unless otherwise specified, all of Contractor's communications to Town (in any form) will go to or through the Project Manager. Town reserves the right to reassign the Project Manager role at any time or to delegate duties to additional Town representatives, without prior notice to or consent of Contractor.
- D. **Design Professional.** The Design Professional is responsible for the overall design of the Project and, to the extent authorized by Town, may act on Town's behalf to ensure performance of the Work in compliance with the Plans and Specifications, including any design changes authorized by Change Order. The Design

Professional's duties may include review of Contractor's submittals, visits to any Worksite, inspecting the Work, evaluating test and inspection results, and participation in Project-related meetings, including any pre-construction conference, weekly meetings, and coordination meetings. The Design Professional's interpretation of the Plans or Specifications is final and conclusive.

2.2 Contractor.

- A. **General.** Contractor must provide all labor, materials, supplies, equipment, services, and incidentals necessary to perform and timely complete the Work in strict accordance with the Contract Documents, and in an economical and efficient manner in the best interests of Town, and with minimal inconvenience to the public.
- B. **Responsibility for the Work and Risk of Loss.** Contractor is responsible for supervising and directing all aspects of the Work to facilitate the efficient and timely completion of the Work. Contractor is solely responsible for and required to exercise full control over the Work, including the construction means, methods, techniques, sequences, procedures, safety precautions and programs, and coordination of all portions of the Work with that of all other contractors and Subcontractors, except to the extent that the Contract Documents provide other specific instructions. Contractor's responsibilities extend to any plan, method or sequence suggested, but not required by Town or specified in the Contract Documents. From the date of commencement of the Work until either the date on which Town formally accepts the Project or the effective date of termination of the Contract, whichever is later, Contractor bears all risks of injury or damage to the Work and the materials and equipment delivered to any Worksite, by any cause including fire, earthquake, wind, weather, vandalism, or theft.
- C. **Project Administration.** Contractor must provide sufficient and competent administration, staff, and skilled workforce necessary to perform and timely complete the Work in accordance with the Contract Documents. Before starting the Work, Contractor must designate in writing and provide complete contact information, including telephone numbers and email address, for the officer or employee in Contractor's organization who is to serve as Contractor's primary representative for the Project, and who has authority to act on Contractor's behalf. A Subcontractor may not serve as Contractor's primary representative.
- D. **On-Site Superintendent.** Contractor must, at all times during performance of the Work, provide a qualified and competent full-time superintendent acceptable to Town, and assistants as necessary, who must be physically present at the Project site while any aspect of the Work is being performed. The superintendent must have full authority to act and communicate on behalf of Contractor, and Contractor will be bound by the superintendent's communications to Town. Town's approval of the superintendent is required before the Work commences. If Town is not satisfied with the superintendent's performance, Town may request a qualified replacement of the superintendent. Failure to comply may result in temporary suspension of the Work, at Contractor's sole expense and with no extension of Contract Time, until an approved superintendent is physically present to supervise the Work. Contractor must provide written notice to Town, as soon as practicable, before replacing the superintendent.
- E. **Standards.** Contractor must, at all times, ensure that the Work is performed in an efficient, skillful manner following best practices and in full compliance with the Contract Documents, Laws, and applicable manufacturer's recommendations. Contractor has a material and ongoing obligation to provide true and complete information, to the best of its knowledge, with respect to all records, documents, or communications

pertaining to the Project, including oral or written reports, statements, certifications, Change Order requests, or Claims.

- F. **Meetings.** Contractor, its project manager, superintendent and any primary Subcontractors requested by Town, must attend a pre-construction conference, if requested by Town, as well as weekly Project progress meetings scheduled with Town. If applicable, Contractor may also be required to participate in coordination meetings with other parties relating to other work being performed on or near the Project site or in relation to the Project, including work or activities performed by Town, other contractors, or other utility owners.
- G. **Construction Records.** Contractor will maintain up-to-date, thorough, legible, and dated daily job reports, which document all significant activity on the Project for each day that Work is performed on the Project. The daily report for each day must include the number of workers at the Project site; primary Work activities; major deliveries; problems encountered, including injuries, if any; weather and site conditions; and delays, if any. Contractor will take date and time-stamped photographs to document general progress of the Project, including site conditions prior to construction activities, before and after photographs at offset trench laterals, existing improvements and utilities, damage and restoration. Contractor will maintain copies of all subcontracts, Project-related correspondence with Subcontractors, and records of meetings with Subcontractors. Upon request by the Town, Contractor will permit review of and/or provide copies of any of these construction records.
- H. **Responsible Party.** Contractor is solely responsible to Town for the acts or omissions of any Subcontractors, or any other party or parties performing portions of the Work or providing equipment, materials or services for or on behalf of Contractor or the Subcontractors. Upon Town's written request, Contractor must promptly and permanently remove from the Project, at no cost to Town, any employee or Subcontractor or employee of a Subcontractor who the Engineer has determined to be incompetent, intemperate or disorderly, or who has failed or refused to perform the Work as required under the Contract Documents.
- I. **Correction of Defects.** Contractor must promptly correct, at Contractor's sole expense, any Work that is determined by Town to be deficient or defective in any way, including workmanship, materials, parts, or equipment. Workmanship, materials, parts, or equipment that do not conform to the requirements under the Plans, Specifications, and other Contract Documents, as determined by Town, will be considered defective and subject to rejection. Contractor must also promptly correct, at Contractor's sole expense, any Work performed beyond the lines and grades shown on the Plans or established by Town, and any Extra Work performed without Town's prior written approval. If Contractor fails to correct or to take reasonable steps toward correcting defective Work within five days following notice from Town, or within the time specified in Town's notice to correct, Town may elect to have the defective Work corrected by its own forces or by a third party, in which case the cost of correction will be deducted from the Contract Price. If Town elects to correct defective Work due to Contractor's failure or refusal to do so, Town or its agents will have the right to take possession of and use any equipment, supplies, or materials available at the Project site or any Worksite on Town property, in order to effectuate the correction, at no extra cost to Town. Contractor's warranty obligations under Section 11.2, Warranty, will not be waived nor limited by Town's actions to correct defective Work under these circumstances. Alternatively, Town may elect to retain defective Work, and deduct the difference in value, as determined by the Engineer, from payments otherwise due to Contractor. This paragraph applies to any defective Work performed by Contractor during the one-year warranty period under Section 11.2.

- J. **Contractor's Records.** Contractor must maintain all of its records relating to the Project in any form, including paper documents, photos, videos, electronic records, approved samples, and the construction records required pursuant to paragraph (G), above. Project records subject to this provision include complete Project cost records and records relating to preparation of Contractor's bid, including estimates, take-offs, and price quotes or bids.
1. Contractor's cost records must include all supporting documentation, including original receipts, invoices, and payroll records, evidencing its direct costs to perform the Work, including, but not limited to, costs for labor, materials, and equipment. Each cost record should include, at a minimum, a description of the expenditure with references to the applicable requirements of the Contract Documents, the amount actually paid, the date of payment, and whether the expenditure is part of the original Contract Price, related to an executed Change Order, or otherwise categorized by Contractor as Extra Work. Contractor's failure to comply with this provision as to any claimed cost operates as a waiver of any rights to recover the claimed cost.
 2. Contractor must continue to maintain its Project-related records in an organized manner for a period of five years after Town's acceptance of the Project or following Contract termination, whichever occurs first. Subject to prior notice to Contractor, Town is entitled to inspect or audit any of Contractor's records relating to the Project during Contractor's normal business hours. Contractor's records may also be subject to examination and audit by the California State Auditor, pursuant to Government Code § 8546.7. The record-keeping requirements set forth in this subsection 2.2(J) will survive expiration or termination of the Contract.
- K. **Copies of Project Documents.** Contractor and its Subcontractors must keep copies, at the Project site, of all Work-related documents, including the Contract, permit(s), Plans, Specifications, addenda, Contract amendments, Change Orders, RFIs and RFI responses, Shop Drawings, as-built drawings, schedules, daily records, testing and inspection reports or results, and any related written interpretations. These documents must be available to Town for reference at all times during construction of the Project.

2.3 Subcontractors.

- A. **General.** All Work which is not performed by Contractor with its own forces must be performed by Subcontractors. Town reserves the right to approve or reject any and all Subcontractors proposed to perform the Work, for reasons including the Subcontractor's poor reputation, lack of relevant experience, financial instability, and lack of technical ability or adequate trained workforce. Each Subcontractor must obtain a Town business license before performing any Work.
- B. **Contractual Obligations.** Contractor must require each Subcontractor to comply with the provisions of the Contract Documents as they apply to the Subcontractor's portion(s) of the Work, including the generally applicable terms of the Contract Documents, and to likewise bind their subcontractors. Contractor will provide that the rights that each Subcontractor may have against any manufacturer or supplier for breach of warranty or guarantee relating to items provided by the Subcontractor for the Project, will be assigned to Town. Nothing in these Contract Documents creates a contractual relationship between a Subcontractor and Town, but Town is deemed to be a third-party beneficiary of the contract between Contractor and each Subcontractor.

- C. **Termination.** If the Contract is terminated, each Subcontractor's agreement must be assigned by Contractor to Town, subject to the prior rights of any surety, but only if and to the extent that Town accepts, in writing, the assignment by written notification, and assumes all rights and obligations of Contractor pursuant to each such subcontract agreement.
- D. **Substitution of Subcontractor.** If Contractor requests substitution of a listed Subcontractor under Public Contract Code § 4107, Contractor is solely responsible for all costs Town incurs in responding to the request, including legal fees and costs to conduct a hearing, and any increased subcontract cost to perform the Work that was to be performed by the listed Subcontractor. If Town determines that a Subcontractor is unacceptable to Town based on the Subcontractor's failure to satisfactorily perform its Work, or for any of the grounds for substitution listed in Public Contract Code § 4107(a), Town may request removal of the Subcontractor from the Project. Upon receipt of a written request from Town to remove a Subcontractor pursuant to this paragraph, Contractor will immediately remove the Subcontractor from the Project and, at no further cost to Town, will either (1) self-perform the remaining Work to the extent that Contractor is duly licensed and qualified to do so, or (2) substitute a Subcontractor that is acceptable to Town, in compliance with Public Contract Code § 4107, as applicable.

2.4 Coordination of Work.

- A. **Concurrent Work.** Town reserves the right to perform, have performed, or permit performance of other work on or adjacent to the Project site while the Work is being performed for the Project. Contractor is responsible for coordinating its Work with other work being performed on or adjacent to the Project site, including by any utility companies or agencies, and must avoid hindering, delaying, or interfering with the work of other contractors, individuals, or entities, and must ensure safe and reasonable site access and use as required or authorized by Town. To the full extent permitted by law, Contractor must hold harmless and indemnify Town against any and all claims arising from or related to Contractor's avoidable, negligent, or willful hindrance of, delay to, or interference with the work of any utility company or agency or another contractor or subcontractor.
- B. **Coordination.** If Contractor's Work will connect or interface with work performed by others, Contractor is responsible for independently measuring and visually inspecting such work to ensure a correct connection and interface. Contractor is responsible for any failure by Contractor or its Subcontractors to confirm measurements before proceeding with connecting Work. Before proceeding with any portion of the Work affected by the construction or operations of others, Contractor must give the Project Manager prompt written notification of any defects Contractor discovers which will prevent the proper execution of the Work. Failure to give notice of any known or reasonably discoverable defects will be deemed acknowledgement by Contractor that the work of others is not defective and will not prevent the proper execution of the Work. Contractor must also promptly notify Town if work performed by others, including work or activities performed by Town's own forces, is operating to hinder, delay, or interfere with Contractor's timely performance of the Work. Town reserves the right to backcharge Contractor for any additional costs incurred due to Contractor's failure to comply with the requirements in this Section 2.4.

2.5 Submittals. Unless otherwise specified, Contractor must submit to the Engineer for review and acceptance, all schedules, Shop Drawings, samples, product data, and similar submittals required by the Contract Documents, or upon request by the Engineer. Unless otherwise specified, all submittals, including Requests for Information, are subject to

the general provisions of this Section, as well as specific submittal requirements that may be included elsewhere in the Contract Documents, including the Special Conditions or Specifications. The Engineer may require submission of a submittal schedule at or before a pre-construction conference, as may be specified in the Notice to Proceed.

- A. **General.** Contractor is responsible for ensuring that its submittals are accurate and conform to the Contract Documents.
- B. **Time and Manner of Submission.** Contractor must ensure that its submittals are prepared and delivered in a manner consistent with the current Town-accepted schedule for the Work and within the applicable time specified in the Contract Documents, or if no time is specified, in such time and sequence so as not to delay the performance of the Work or completion of the Project.
- C. **Required Contents.** Each submittal must include the Project name and contract number, Contractor's name and address, the name and address of any Subcontractor or supplier involved with the submittal, the date, and references to applicable Specification section(s) and/or drawing and detail number(s).
- D. **Required Corrections.** If corrections are required, Contractor must promptly make and submit any required corrections as specified in full conformance with the requirements of this Section, or other requirements that apply to that submittal.
- E. **Effect of Review and Acceptance.** Review and acceptance of a submittal by Town will not relieve Contractor from complying with the requirements of the Contract Documents. Contractor is responsible for any errors in any submittal, and review or acceptance of a submittal by Town is not an assumption of risk or liability by Town.
- F. **Enforcement.** Any Work performed or any material furnished, installed, fabricated or used without Town's prior acceptance of a required submittal is performed or provided at Contractor's risk, and Contractor may be required to bear the costs incident thereto, including the cost of removing and replacing such Work, repairs to other affected portions of the Work or material, and the cost of additional time or services required of Town, including costs for the Design Professional, Project Manager, or Inspector.
- G. **Excessive RFIs.** A RFI will be considered excessive or unnecessary if Town determines that the explanation or response to the RFI is clearly and unambiguously discernable from the Contract Documents. Town's costs to review and respond to excessive or unnecessary RFIs may be deducted from payments otherwise due to Contractor.

2.6 Shop Drawings. When Shop Drawings are required by the Specifications or requested by the Engineer, they must be prepared according to best practices at Contractor's expense. The Shop Drawings must be of a size and scale to clearly show all necessary details. Unless otherwise specified by Town, Shop Drawings must be provided to the Engineer for review and acceptance at least 30 days before the Work will be performed. If Town requires changes, the corrected Shop Drawings must be resubmitted to the Engineer for review within the time specified by the Engineer. For all Project components requiring Shop Drawings, Contractor will not furnish materials or perform any Work until the Shop Drawings for those components are accepted by Town. Contractor is responsible for any errors or omissions in the Shop Drawings, shop fits and field corrections; any deviations from the Contract Documents; and for the results obtained by the use of Shop Drawings. Acceptance of Shop Drawings by Town does not relieve Contractor of Contractor's responsibility.

2.7 Access to Work. Contractor must afford prompt and safe access to any Worksite by Town and its employees, agents, or consultants authorized by Town; and upon request by Town, Contractor must promptly arrange for Town representatives to visit or inspect manufacturing sites or fabrication facilities for items to be incorporated into the Work.

2.8 Personnel. Contractor and its Subcontractors must employ only competent and skillful personnel to perform the Work. Contractor and its Subcontractor's supervisors, security or safety personnel, and employees who have unescorted access to the Project site must possess proficiency in English sufficient to read, understand, receive, and implement oral or written communications or instructions relating to their respective job functions, including safety and security requirements. Upon written notification from the Engineer, Contractor and its Subcontractors must immediately discharge any personnel who are incompetent, disorderly, disruptive, threatening, abusive, or profane, or otherwise refuse or fail to comply with the requirements of the Contract Documents or Laws, including Laws pertaining to health and safety. Any such discharged personnel may not be re-employed or permitted on the Project in any capacity without Town's prior written consent.

Article 3 - Contract Documents

3.1 Interpretation of Contract Documents.

- A. **Plans and Specifications.** The Plans and Specifications included in the Contract Documents are complementary. If Work is shown on one but not on the other, Contractor must perform the Work as though fully described on both, consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results. The Plans and Specifications are deemed to include and require everything necessary and reasonably incidental to completion of the Work, whether or not particularly mentioned or shown. Contractor must perform all Work and services and supply all things reasonably related to and inferable from the Contract Documents. In the event of a conflict between the Plans and Specifications, the Specifications will control, unless the drawing(s) at issue are dated later than the Specification(s) at issue. Detailed drawings take precedence over general drawings, and large-scale drawings take precedence over smaller scale drawings. Any arrangement or division of the Plans and Specifications into sections is for convenience and is not intended to limit the Work required by separate trades. A conclusion presented in the Plans or Specifications is only a recommendation. Actual locations and depths must be determined by Contractor's field investigation. Contractor may request access to underlying or background information in Town's possession that is necessary for Contractor to form its own conclusions.
- B. **Duty to Notify and Seek Direction.** If Contractor becomes aware of a changed condition in the Project, or of any ambiguity, conflict, inconsistency, discrepancy, omission, or error in the Contract Documents, including the Plans or Specifications, Contractor must promptly submit a Request for Information to the Engineer and wait for a response from Town before proceeding further with the related Work. The RFI must notify Town of the issue and request clarification, interpretation or direction. The Engineer's clarification, interpretation or direction will be final and binding on Contractor. If Contractor proceeds with the related Work before obtaining Town's response, Contractor will be responsible for any resulting costs, including the cost of correcting any incorrect or defective Work that results. Timely submission of a clear and complete RFI is essential to avoiding delay. Delay resulting from Contractor's failure to submit a timely and complete RFI to the Engineer is Non-Excusable Delay. If Contractor believes that Town's response to an RFI justifies a change to the Contract Price or Contract Time, Contractor must perform the Work as directed, but may submit a timely Change Order request in accordance with the Contract Documents. (See Articles 5 and 6.)

- C. **Figures and Dimensions.** Figures control over scaled dimensions.
- D. **Technical or Trade Terms.** Any terms that have well-known technical or trade meanings will be interpreted in accordance with those meanings, unless otherwise specifically defined in the Contract Documents.
- E. **Measurements.** Contractor must verify all relevant measurements in the Contract Documents and at the Project site before ordering any material or performing any Work, and will be responsible for the correctness of those measurements or for costs that could have been avoided by independently verifying measurements.
- F. **Compliance with Laws.** The Contract Documents are intended to comply with Laws and will be interpreted to comply with Laws.

3.2 Order of Precedence. Information included in one Contract Document but not in another will not be considered a conflict or inconsistency. Unless otherwise specified in the Special Conditions, in case of any conflict or inconsistency among the Contract Documents, the following order of precedence will apply, beginning from highest to lowest, with the most recent version taking precedent over an earlier version:

1. Change Orders;
2. Addenda;
3. Contract;
4. Notice to Proceed;
5. Federal Contract Requirements (only if used);
6. Special Conditions;
7. General Conditions;
8. Payment and Performance Bonds;
9. Specifications;
10. Plans;
11. Notice of Potential Award;
12. Notice Inviting Bids;
13. Federal Bidding Requirements (only if used);
14. Instructions to Bidders;
15. Contractor's Bid Proposal and attachments;
16. Locations of Work
17. Standard Plans; and
18. Any generic documents prepared by and on behalf of a third party, that were not prepared specifically for this Project, such as the Caltrans Standard Specifications or Caltrans Special Provisions.

3.3 Caltrans Standard Specifications. Any reference to or incorporation of the Standard Specifications of the State of California, Department of Transportation (“Caltrans”), including “Standard Specifications,” “Caltrans Specifications,” “State Specifications,” or “CSS,” means the most current edition of Caltrans’ Standard Specifications, unless otherwise specified (“Caltrans Standard Specifications”), including the most current amendments as of the date that Contractor’s bid was submitted for this Project. The following provisions apply to use of or reference to the Caltrans Standard Specifications or Special Provisions:

- A. **Limitations.** The “General Provisions” of the Caltrans Standard Specifications, i.e., sections 1 through 9, do not apply to these Contract Documents with the exception of any specific provisions, if any, which are expressly stated to apply to these Contract Documents.
- B. **Conflicts or Inconsistencies.** If there is a conflict or inconsistency between any provision in the Caltrans Standard Specifications or Special Provisions and a provision of these Contract Documents, as determined by Town, the provision in the Contract Documents will govern.
- C. **Meanings.** Terms used in the Caltrans Standard Specifications or Special Provisions are to be interpreted as follows:
 - 1. Any reference to the “Engineer” is deemed to mean the Town Engineer.
 - 2. Any reference to the “Special Provisions” is deemed to mean the Special Conditions, unless the Caltrans Special Provisions are expressly included in the Contract Documents listed in Section 2 of the Contract.
 - 3. Any reference to the “Department” or “State” is deemed to mean Town.

3.4 For Reference Only. Contractor is responsible for the careful review of any document, study, or report provided by Town or appended to the Contract Documents solely for informational purposes and identified as “For Reference Only.” Nothing in any document, study, or report so appended and identified is intended to supplement, alter, or void any provision of the Contract Documents. Contractor is advised that Town or its representatives may be guided by information or recommendations included in such reference documents, particularly when making determinations as to the acceptability of proposed materials, methods, or changes in the Work. Any record drawings or similar final or accepted drawings or maps that are not part of the Contract Documents are deemed to be For Reference Only. The provisions of the Contract Documents are not modified by any perceived or actual conflict with provisions in any document that is provided For Reference Only.

3.5 Current Versions. Unless otherwise specified by Town, any reference to standard specifications, technical specifications, or any Town or state codes or regulations means the latest specification, code, or regulation in effect on the date that bids were due.

3.6 Conformed Copies. If Town prepares a conformed set of the Contract Documents following award of the Contract, it will provide Contractor with two hard copy (paper) sets and one copy of the electronic file in PDF format. It is Contractor’s responsibility to ensure that all Subcontractors, including fabricators, are provided with the conformed set of the Contract Documents at Contractor’s sole expense.

3.7 Ownership. No portion of the Contract Documents may be used for any purpose other than construction of the Project, without prior written consent from Town. Contractor is deemed to have conveyed the copyright in any designs, drawings, specifications, Shop Drawings, or other documents (in paper or electronic form) developed by Contractor for the Project, and Town will retain all rights to such works, including the right to possession.

Article 4 - Bonds, Indemnity, and Insurance

4.1 Payment and Performance Bonds. Within ten days following issuance of the Notice of Potential Award, Contractor is required to provide a payment bond and a performance bond, each in the penal sum of not less than 100% of the Contract Price, and each executed by Contractor and its surety using the bond forms included with the Contract Documents.

- A. **Surety.** Each bond must be issued and executed by a surety admitted in California. If an issuing surety cancels the bond or becomes insolvent, within seven days following written notice from Town, Contractor must substitute a surety acceptable to Town. If Contractor fails to substitute an acceptable surety within the specified time, Town may, at its sole discretion, withhold payment from Contractor until the surety is replaced to Town's satisfaction, or terminate the Contract for default.
- B. **Supplemental Bonds for Increase in Contract Price.** If the Contract Price increases during construction by five percent or more over the original Contract Price, Contractor must provide supplemental or replacement bonds within ten days of written notice from Town pursuant to this Section, covering 100% of the increased Contract Price and using the bond forms included with the Contract Documents.

4.2 Indemnity. To the fullest extent permitted by law, Contractor must indemnify, defend, and hold harmless Town, its Council, officers, officials, employees, agents, volunteers, and consultants (individually, an "Indemnitee," and collectively the "Indemnitees") from and against any and all liability, loss, damage, claims, causes of action, demands, charges, fines, costs, and expenses (including, without limitation, attorney fees, expert witness fees, paralegal fees, and fees and costs of litigation or arbitration) (collectively, "Liability") of every nature arising out of or in connection with the acts or omissions of Contractor, its employees, Subcontractors, representatives, or agents, in bidding or performing the Work or in failing to comply with any obligation of Contractor under the Contract, except such Liability caused by the active negligence, sole negligence, or willful misconduct of an Indemnitee. This indemnity requirement applies to any Liability arising from alleged defects in the content or manner of submission of Contractor's bid for the Contract. Contractor's failure or refusal to timely accept a tender of defense pursuant to this Contract will be deemed a material breach of the Contract. Town will timely notify Contractor upon receipt of any third-party claim relating to the Contract, as required by Public Contract Code § 9201. Contractor waives any right to express or implied indemnity against any Indemnitee. Contractor's indemnity obligations under this Contract will survive the expiration or any early termination of the Contract.

4.3 Insurance. No later than ten days following issuance of the Notice of Potential Award, Contractor must procure and provide proof of the insurance coverage required by this Section in the form of certificates and endorsements acceptable to Town. The required insurance must cover the activities of Contractor and its Subcontractors relating to or arising from the performance of the Work, and must remain in full force and effect at all times during the period covered by the Contract, through the date of Town's acceptance of the Project. All required insurance must be issued by a company licensed to do business in the State of California, and each such insurer must have an A.M. Best's financial strength rating of "A" or better and a financial size rating of "VIII" or better. If Contractor fails to provide any of the required coverage in full compliance with the requirements of the Contract Documents, Town may, at its sole discretion, purchase such coverage at Contractor's expense and deduct the cost from payments due to Contractor, or terminate the Contract for default. The procurement of the required insurance will not be construed to limit Contractor's liability under this Contract or to fulfill Contractor's indemnification obligations under this Contract.

- A. **Policies and Limits.** The following insurance policies and limits are required for this Contract, unless otherwise specified in the Special Conditions:

1. *Commercial General Liability (“CGL”) Insurance:* The CGL insurance policy must be issued on an occurrence basis, written on a comprehensive general liability form, and must include coverage for liability arising from Contractor’s or its Subcontractor’s acts or omissions in the performance of the Work, including contractor’s protective coverage, contractual liability, products and completed operations, and broad form property damage, with limits of at least \$2,000,000 per occurrence and at least \$4,000,000 general aggregate. The CGL insurance coverage may be arranged under a single policy for the full limits required or by a combination of underlying policies with the balance provided by excess or umbrella policies, provided each such policy complies with the requirements set forth in this Section, including required endorsements.
 2. *Automobile Liability Insurance:* The automobile liability insurance policy must provide coverage of at least \$2,000,000 combined single-limit per accident for bodily injury, death, or property damage, including hired and non-owned auto liability.
 3. *Workers’ Compensation Insurance and Employer’s Liability:* The workers’ compensation and employer’s liability insurance policy must comply with the requirements of the California Labor Code, providing coverage of at least \$1,000,000 or as otherwise required by the statute. If Contractor is self-insured, Contractor must provide its Certificate of Permission to Self-Insure, duly authorized by the DIR.
- B. **Notice.** Each certificate of insurance must state that the coverage afforded by the policy or policies will not be reduced, cancelled or allowed to expire without at least 30 days written notice to Town, unless due to non-payment of premiums, in which case ten days written notice must be made to Town.
- C. **Waiver of Subrogation.** Each required policy must include an endorsement providing that the carrier will waive any right of subrogation it may have against Town.
- D. **Required Endorsements.** The CGL policy, automobile liability policy, pollution liability policy, and builder’s risk policy must include the following specific endorsements:
1. The Town, including its Council, officials, officers, employees, agents, volunteers and consultants (collectively, “Additional Insured”) must be named as an additional insured for all liability arising out of the operations by or on behalf of the named insured, and the policy must protect the Additional Insured against any and all liability for personal injury, death or property damage or destruction arising directly or indirectly in the performance of the Contract. The additional insured endorsement must be provided using ISO form CG 20 10 11 85 or equivalent form(s) approved by the Town.
 2. The inclusion of more than one insured will not operate to impair the rights of one insured against another, and the coverages afforded will apply as though separate policies have been issued to each insured.
 3. The insurance provided by Contractor is primary and no insurance held or owned by any Additional Insured may be called upon to contribute to a loss.
 4. This policy does not exclude explosion, collapse, underground excavation hazard, or removal of lateral support.
- E. **Contractor’s Responsibilities.** This Section 4.3 establishes the minimum requirements for Contractor’s insurance coverage in relation to this Project, but is not intended to limit Contractor’s ability to procure additional or greater coverage. Contractor is responsible for its own risk assessment and needs and is encouraged to consult

its insurance provider to determine what coverage it may wish to carry beyond the minimum requirements of this Section. Contractor is solely responsible for the cost of its insurance coverage, including premium payments, deductibles, or self-insured retentions, and no Additional Insured will be responsible or liable for any of the cost of Contractor's insurance coverage.

- F. **Deductibles and Self-Insured Retentions.** Any deductibles or self-insured retentions that apply to the required insurance (collectively, "deductibles") in excess of \$100,000 are subject to approval by the Town's Risk Manager, acting in his or her sole discretion, and must be declared by Contractor when it submits its certificates of insurance and endorsements pursuant to this Section 4.3. If the Town's Risk Manager determines that the deductibles are unacceptably high, at Town's option, Contractor must either reduce or eliminate the deductibles as they apply to Town and all required Additional Insured; or must provide a financial guarantee, to Town's satisfaction, guaranteeing payment of losses and related investigation, claim administration, and legal expenses.
- G. **Subcontractors.** Contractor must ensure that each Subcontractor is required to maintain the same insurance coverage required under this Section 4.3, with respect to its performance of Work on the Project, including those requirements related to the Additional Insureds and waiver of subrogation, but excluding pollution liability or builder's risk insurance unless otherwise specified in the Special Conditions. A Subcontractor may be eligible for reduced insurance coverage or limits, but only to the extent approved in writing in advance by the Town's Risk Manager. Contractor must confirm that each Subcontractor has complied with these insurance requirements before the Subcontractor is permitted to begin Work on the Project. Upon request by the Town, Contractor must provide certificates and endorsements submitted by each Subcontractor to prove compliance with this requirement. The insurance requirements for Subcontractors do not replace or limit the Contractor's insurance obligations.

Article 5 - Contract Time

5.1 Time is of the Essence. Time is of the essence in Contractor's performance and completion of the Work, and Contractor must diligently prosecute the Work and complete it within the Contract Time.

- A. **General.** Contractor must commence the Work on the date indicated in the Notice to Proceed and must fully complete the Work in strict compliance with all requirements of the Contract Documents and within the Contract Time. Contractor may not begin performing the Work before the date specified in the Notice to Proceed.
- B. **Authorization.** Contractor is not entitled to compensation or credit for any Work performed before the date specified in the Notice to Proceed, with the exception of any schedules, submittals, or other requirements, if any, that must be provided or performed before issuance of the Notice to Proceed.
- C. **Rate of Progress.** Contractor and its Subcontractors must, at all times, provide workers, materials, and equipment sufficient to maintain the rate of progress necessary to ensure full completion of the Work within the Contract Time. If Town determines that Contractor is failing to prosecute the Work at a sufficient rate of progress, Town may, in its sole discretion, direct Contractor to provide additional workers, materials, or equipment, or to work additional hours or days without additional cost to Town, in order to achieve a rate of progress satisfactory to Town. If Contractor fails to comply with Town's directive in this regard, Town may, at Contractor's expense, separately contract for additional workers, materials, or equipment or use Town's own

forces to achieve the necessary rate of progress. Alternatively, Town may terminate the Contract based on Contractor's default.

5.2 Schedule Requirements. Contractor must prepare all schedules using standard, commercial scheduling software acceptable to the Engineer, and must provide the schedules in electronic and paper form as requested by the Engineer. In addition to the general scheduling requirements set forth below, Contractor must also comply with any scheduling requirements included in the Special Conditions or in the Technical Specifications.

- A. **Baseline (As-Planned) Schedule.** Within ten calendar days following Town's issuance of the Notice to Proceed (or as otherwise specified in the Notice to Proceed), Contractor must submit to Town for review and acceptance a baseline (as-planned) schedule using critical path methodology showing in detail how Contractor plans to perform and fully complete the Work within the Contract Time, including labor, equipment, materials, and fabricated items. The baseline schedule must show the order of the major items of Work and the dates of start and completion of each item, including when the materials and equipment will be procured. The schedule must also include the work of all trades, reflecting anticipated labor or crew hours and equipment loading for the construction activities, and must be sufficiently comprehensive and detailed to enable progress to be monitored on a day-by-day basis. For each activity, the baseline schedule must be dated, provided in the format specified in the Contract Documents or as required by Town, and must include, at a minimum, a description of the activity, the start and completion dates of the activity, and the duration of the activity.
 1. *Specialized Materials Ordering.* Within five calendar days following issuance of the Notice to Proceed, Contractor must order any specialized material or equipment for the Work that is not readily available from material suppliers. Contractor must also retain documentation of the purchase order date(s).
- B. **Town's Review of Schedules.** Town will review and may note exceptions to the baseline schedule, and to the progress schedules submitted as required below, to assure completion of the Work within the Contract Time. Contractor is solely responsible for resolving any exceptions noted in a schedule and, within seven days, must correct the schedule to address the exceptions. Town's review or acceptance of Contractor's schedules will not operate to waive or limit Contractor's duty to complete the Project within the Contract Time, nor to waive or limit Town's right to assess liquidated damages for Contractor's unexcused failure to do so.
- C. **Progress Schedules.** After Town accepts the final baseline schedule with no exceptions, Contractor must submit an updated progress schedule and three-week look-ahead schedule, in the format specified by Town, for review and acceptance with each application for a progress payment, or when otherwise specified by Town, until completion of the Work. The updated progress schedule must: show how the actual progress of the Work as constructed to date compares to the baseline schedule; reflect any proposed changes in the construction schedule or method of operations, including to achieve Project milestones within the Contract Time; and identify any actual or potential impacts to the critical path. Contractor must also submit periodic reports to Town of any changes in the projected material or equipment delivery dates for the Project.
 1. *Float.* The progress schedule must show early and late completion dates for each task. The number of days between those dates will be designated as the "float." Any float belongs to the Project and may be allocated by the Engineer to best serve timely completion of the Project.

2. **Failure to Submit Schedule.** Reliable, up-to-date schedules are essential to efficient and cost-effective administration of the Project and timely completion. If Contractor fails to submit a schedule within the time periods specified in this Section, or submits a schedule to which Town has noted exceptions that are not corrected, Town may withhold up to five percent from payment(s) otherwise due to Contractor until the exceptions are resolved, the schedule is corrected and resubmitted, and Town has accepted the schedule. In addition, Contractor's failure to comply with the schedule requirements in this Section 5.2 will be deemed a material default and a waiver of any claims for Excusable Delay or loss of productivity arising during any period when Contractor is out of compliance, subject only to the limits of Public Contract Code § 7102.
- D. **Recovery Schedule.** If Town determines that the Work is more than one week behind schedule, within seven days following written notice of such determination, Contractor must submit a recovery schedule, showing how Contractor intends to perform and complete the Work within the Contract Time, based on actual progress to date.
- E. **Effect of Acceptance.** Contractor and its Subcontractors must perform the Work in accordance with the most current Town-accepted schedule unless otherwise directed by Town. Town's acceptance of a schedule does not operate to extend the time for completion of the Work or any component of the Work, and will not affect Town's right to assess liquidated damages for Contractor's unexcused delay in completing the Work within the Contract Time.
- F. **Posting.** Contractor must at all times prominently post a copy of the most current Town-accepted progress or recovery schedule in its on-site office.
- G. **Reservation of Rights.** Town reserves the right to direct the sequence in which the Work must be performed or to make changes in the sequence of the Work in order to facilitate the performance of work by Town or others, or to facilitate Town's use of its property. The Contract Time or Contract Price may be adjusted to the extent such changes in sequence actually increase or decrease Contractor's time or cost to perform the Work.
- H. **Authorized Working Days and Times.** Contractor is limited to working Monday through Friday, excluding holidays, during Town's normal business hours, except as provided in the Special Conditions or as authorized in writing by Town. Town reserves the right to charge Contractor for additional costs incurred by Town due to Work performed on days or during hours not expressly authorized in the Contract Documents, including reimbursement of costs incurred for inspection, testing, and construction management services.

5.3 Delay and Extensions of Contract Time.

- A. **Notice of Delay.** If Contractor becomes aware of any actual or potential delay affecting the critical path, Contractor must promptly notify the Engineer in writing, regardless of the nature or cause of the delay, so that Town has a reasonable opportunity to mitigate or avoid the delay.
- B. **Excusable Delay.** The Contract Time may be extended if Contractor encounters "Excusable Delay," which is an unavoidable delay in completing the Work within the Contract Time due to causes completely beyond Contractor's control, and which Contractor could not have avoided or mitigated through reasonable care, planning, foresight, and diligence, provided that Contractor is otherwise fully performing its obligations under the Contract Documents. Grounds for Excusable Delay may include fire, natural disasters including earthquake

or unusually severe weather, acts of terror or vandalism, epidemic, unforeseeable adverse government actions, unforeseeable actions of third parties, encountering unforeseeable hazardous materials, unforeseeable site conditions, or suspension for convenience under Article 13. The Contract Time will not be extended based on circumstances which will not unavoidably delay completing the Work within the Contract Time based on critical path analysis.

- C. **Weather Delays.** A “Weather Delay Day” is a Working Day during which Contractor and its forces, including Subcontractors, are unable to perform more than 40% of the critical path Work scheduled for that day due to adverse weather conditions which impair the ability to safely or effectively perform the scheduled critical path Work that day. Adverse weather conditions may include rain, saturated soil, and Project site clean-up required due to adverse weather. Determination of what constitutes critical path Work scheduled for that day will be based on the most current, Town-approved schedule. Contractor will be entitled to a non-compensable extension of the Contract Time for each Weather Delay Day in excess of the normal Weather Delay Days within a given month as determined by reliable records, including monthly rainfall averages, for the preceding ten years (or as otherwise specified in the Special Conditions or Specifications).
1. Contractor must fully comply with the applicable procedures in Articles 5 and 6 of the General Conditions regarding requests to modify the Contract Time.
 2. Contractor will not be entitled to an extension of time for a Weather Delay Day to the extent Contractor is responsible for concurrent delay on that day.
 3. Contractor must take reasonable steps to mitigate the consequences of Weather Delay Days, including prudent workforce management and protecting the Work, Project Site, materials, and equipment.
- D. **Non-Excusable Delay.** Delay which Contractor could have avoided or mitigated through reasonable care, planning, foresight, and diligence is “Non-Excusable Delay.” Contractor is not entitled to an extension of Contract Time or any compensation for Non-Excusable Delay, or for Excusable Delay that is concurrent with Non-Excusable Delay. Non-Excusable Delay includes delay caused by:
1. weather conditions which are normal for the location of the Project, as determined by reliable records, including monthly rainfall averages, for the preceding ten years;
 2. Contractor’s failure to order equipment and materials sufficiently in advance of the time needed for completion of the Work within the Contract Time;
 3. Contractor’s failure to provide adequate notification to utility companies or agencies for connections or services necessary for completion of the Work within the Contract Time;
 4. foreseeable conditions which Contractor could have ascertained from reasonably diligent inspection of the Project site or review of the Contract Documents or other information provided or available to Contractor;
 5. Contractor’s failure, refusal, or financial inability to perform the Work within the Contract Time, including insufficient funds to pay its Subcontractors or suppliers;
 6. performance or non-performance by Contractor’s Subcontractors or suppliers;
 7. the time required to respond to excessive RFIs (see Section 2.5(G));

8. delayed submission of required submittals, or the time required for correction and resubmission of defective submittals;
 9. time required for repair of, re-testing, or re-inspection of defective Work;
 10. enforcement of Laws by Town, or outside agencies with jurisdiction over the Work; or
 11. Town's exercise or enforcement of any of its rights or Contractor's duties pursuant to the Contract Documents, including correction of defective Work, extra inspections or testing due to non-compliance with Contract requirements, safety compliance, environmental compliance, or rejection and return of defective or deficient submittals.
- E. **Compensable Delay.** Pursuant to Public Contract Code § 7102, in addition to entitlement to an extension of Contract Time, Contractor is entitled to compensation for costs incurred due to delay caused solely by Town, when that delay is unreasonable under the circumstances involved and not within the contemplation of the parties ("Compensable Delay"). Contractor is not entitled to an extension of Contract Time or recovery of costs for Compensable Delay that is concurrent with Non-Excusable Delay.
- F. **Recoverable Costs.** Contractor is not entitled to compensation for Excusable Delay unless it is Compensable Delay, as defined above. Contractor is entitled to recover only the actual, direct, reasonable, and substantiated costs ("Recoverable Costs") for each working day that the Compensable Delay prevents Contractor from proceeding with more than 50% of the critical path Work scheduled for that day, based on the most recent progress schedule accepted by Town. Recoverable Costs will not include home office overhead or lost profit.
- G. **Request for Extension of Contract Time or Recoverable Costs.** A request for an extension of Contract Time or any associated Recoverable Costs must be submitted in writing to Town within 30 calendar days of the date the delay is first encountered, even if the duration of the delay is not yet known at that time, or any entitlement to the Contract Time extension or to the Recoverable Costs will be deemed waived. In addition to complying with the requirements of this Article 5, the request must be submitted in compliance with the Change Order request procedures in Article 6 below. Strict compliance with these requirements is necessary to ensure that any delay or consequences of delay may be mitigated as soon as possible, and to facilitate cost-efficient administration of the Project and timely performance of the Work. Any request for an extension of Contract Time or Recoverable Costs that does not strictly comply with all of the requirements of Article 5 and Article 6 will be deemed waived.
1. **Required Contents.** The request must include a detailed description of the cause(s) of the delay and must also describe the measures that Contractor has taken to mitigate the delay and/or its effects, including efforts to mitigate the cost impact of the delay, such as by workforce management or by a change in sequencing. If the delay is still ongoing at the time the request is submitted, the request should also include Contractor's plan for continued mitigation of the delay or its effects.
 2. **Delay Days and Costs.** The request must specify the number of days of Excusable Delay claimed or provide a realistic estimate if the duration of the delay is not yet known. If Contractor believes it is entitled to Recoverable Costs for Compensable Delay, the request must specify the amount and basis for the Recoverable Costs that are claimed or provide a realistic estimate if the amount is not yet known. Any estimate of delay duration or cost must be updated in writing and submitted with all required supporting

documentation as soon as the actual time and cost is known. The maximum extension of Contract Time will be the number of days, if any, by which an Excusable Delay or a Compensable Delay exceeds any concurrent Non-Excusable Delay. Contractor is entitled to an extension of Contract Time, or compensation for Recoverable Costs, only if, and only to the extent that, such delay will unavoidably delay Final Completion.

3. *Supporting Documentation.* The request must also include any and all supporting documentation necessary to evidence the delay and its actual impacts, including scheduling and cost impacts with a time impact analysis using critical path methodology and demonstrating the unavoidable delay to Final Completion. The time impact analysis must be submitted in a form or format acceptable to Town.
4. *Burden of Proof.* Contractor has the burden of proving that: the delay was an Excusable Delay or Compensable Delay, as defined above; Contractor has fully complied with its scheduling obligations in Section 5.2, Schedule Requirements; Contractor has made reasonable efforts to mitigate the delay and its schedule and cost impacts; the delay will unavoidably result in delaying Final Completion; and any Recoverable Costs claimed by Contractor were actually incurred and were reasonable under the circumstances.
5. *Legal Compliance.* Nothing in this Section 5.3 is intended to require the waiver, alteration, or limitation of the applicability of Public Contract Code § 7102.
6. *No Waiver.* Any grant of an extension of Contract Time, or compensation for Recoverable Costs due to Compensable Delay, will not operate as a waiver of Town's right to assess liquidated damages for Non-Excusable Delay.
7. *Dispute Resolution.* In the event of a dispute over entitlement to an extension of Contract Time or compensation for Recoverable Costs, Contractor may not stop Work pending resolution of the dispute, but must continue to comply with its duty to diligently prosecute the performance and timely completion of the Work. Contractor's sole recourse for an unresolved dispute based on Town's rejection of a Change Order request for an extension of Contract Time or compensation for Recoverable Costs is to comply with the dispute resolution provisions set forth in Article 12 below.

5.4 Liquidated Damages. It is expressly understood that if Final Completion is not achieved within the Contract Time, Town will suffer damages from the delay that are difficult to determine and accurately specify. Pursuant to Public Contract Code § 7203, if Contractor fails to achieve Final Completion within the Contract Time due to Contractor's Non-Excusable Delay, Town will charge Contractor in the amount specified in the Contract for each calendar day that Final Completion is delayed beyond the Contract Time, as liquidated damages and not as a penalty. Any waiver of accrued liquidated damages, in whole or in part, is subject to approval of the Town Council or its authorized delegee.

- A. *Liquidated Damages.* Liquidated damages will not be assessed for any Excusable Delay or Compensable Delay, as set forth above.
- B. *Milestones.* Liquidated damages may also be separately assessed for failure to meet milestones specified elsewhere in the Contract Documents.
- C. *Setoff.* Town is entitled to deduct the amount of liquidated damages assessed against any payments otherwise due to Contractor, including progress payments, Final Payment, or unreleased retention. If there are insufficient

Contract funds remaining to cover the full amount of liquidated damages assessed, Town is entitled to recover the balance from Contractor or its performance bond surety.

- D. **Occupancy or Use.** Occupancy or use of the Project in whole or in part prior to Final Completion does not constitute Town's acceptance of the Project and will not operate as a waiver of Town's right to assess liquidated damages for Contractor's Non-Excusable Delay in achieving Final Completion.
- E. **Other Remedies.** Town's right to liquidated damages under this Section applies only to damages arising from Contractor's Non-Excusable Delay or failure to complete the Work within the Contract Time. Town retains its right to pursue all other remedies under the Contract for other types of damage, including damage to property or persons, costs or diminution in value from defective materials or workmanship, costs to repair or complete the Work, or other liability caused by Contractor.

Article 6 - Contract Modification

6.1 Contract Modification. Subject to the limited exception set forth in subsection (D) below, any change in the Work or the Contract Documents, including the Contract Price or Contract Time, will not be a valid and binding change to the Contract unless it is formalized in a Change Order, including a "no-cost" Change Order or a unilateral Change Order. Changes in the Work pursuant to this Article 6 will not operate to release, limit, or abridge Contractor's warranty obligations pursuant to Article 11 or any obligations of Contractor's bond sureties.

- A. **Town-Directed Changes.** Town may direct changes in the scope or sequence of Work or the requirements of the Contract Documents, without invalidating the Contract. Such changes may include Extra Work as set forth in subsection (C) below, or deletion or modification of portions of the Work. Contractor must promptly comply with Town-directed changes in the Work in accordance with the original Contract Documents, even if Contractor and Town have not yet reached agreement as to adjustments to the Contract Price or Contract Time for the change in the Work or for the Extra Work. Contractor is not entitled to extra compensation for cost savings resulting from "value engineering" pursuant to Public Contract Code § 7101, except to the extent authorized in advance by Town in writing, and subject to any applicable procedural requirements for submitting a proposal for value engineering cost savings.
- B. **Disputes.** In the event of a dispute over entitlement to or the amount of a change in Contract Time or a change in Contract Price related to a Town-directed change in the Work, Contractor must perform the Work as directed and may not delay its Work or cease Work pending resolution of the dispute, but must continue to comply with its duty to diligently prosecute the performance and timely completion of the Work, including the Work in dispute. Likewise, in the event that Town and Contractor dispute whether a portion or portions of the Work are already required by the Contract Documents or constitute Extra Work, or otherwise dispute the interpretation of any portion(s) of the Contract Documents, Contractor must perform the Work as directed and may not delay its Work or cease Work pending resolution of the dispute, but must continue to comply with its duty to diligently prosecute the performance and timely completion of the Work, including the Work in dispute, as directed by Town. If Contractor refuses to perform the Work in dispute, Town may, acting in its sole discretion, elect to delete the Work from the Contract and reduce the Contract Price accordingly, and self-perform the Work or direct that the Work be performed by others. Alternatively, Town may elect to terminate the Contract for convenience or for cause. Contractor's sole recourse for an unresolved dispute related to changes in the Work

or performance of any Extra Work is to comply with the dispute resolution provisions set forth in Article 12, below.

- C. **Extra Work.** Town may direct Contractor to perform Extra Work related to the Project. Contractor must promptly perform any Extra Work as directed or authorized by Town in accordance with the original Contract Documents, even if Contractor and Town have not yet reached agreement on adjustments to the Contract Price or Contract Time for such Extra Work. If Contractor believes it is necessary to perform Extra Work due to changed conditions, Contractor must promptly notify the Engineer in writing, specifically identifying the Extra Work and the reason(s) the Contractor believes it is Extra Work. This notification requirement does not constitute a Change Order request pursuant to Section 6.2, below. Contractor must maintain detailed daily records that itemize the cost of each element of Extra Work, and sufficiently distinguish the direct cost of the Extra Work from the cost of other Work performed. For each day that Contractor performs Extra Work, or Work that Contractor contends is Extra Work, Contractor must submit no later than the following Working Day, a daily report of the Extra Work performed that day and the related costs, together with copies of certified payroll, invoices, and other documentation substantiating the costs (“Extra Work Report”). The Engineer will make any adjustments to Contractor’s Extra Work Report(s) based on the Engineer’s records of the Work. When an Extra Work Report(s) is agreed on and signed by both Town and Contractor, the Extra Work Report(s) will become the basis for payment under a duly authorized and signed Change Order. Failure to submit the required documentation by close of business on the next Working Day is deemed a full and complete waiver for any change in the Contract Price or Contract Time for any Extra Work performed that day.
- D. **Minor Changes and RFIs.** Minor field changes, including RFI replies from Town, that do not affect the Contract Price or Contract Time and that are approved by the Engineer acting within his or her scope of authority, do not require a Change Order. By executing an RFI reply from Town, Contractor agrees that it will perform the Work as clarified therein, with no change to the Contract Price or Contract Time.
- E. **Remedy for Non-Compliance.** Contractor’s failure to promptly comply with a Town-directed change is deemed a material breach of the Contract, and in addition to all other remedies available to it, Town may, at its sole discretion, hire another contractor or use its own forces to complete the disputed Work at Contractor’s sole expense, and may deduct the cost from the Contract Price.

6.2 Contractor Change Order Requests. Contractor must submit a request or proposal for a change in the Work, compensation for Extra Work, or a change in the Contract Price or Contract Time as a written Change Order request or proposal.

- A. **Time for Submission.** Any request for a change in the Contract Price or the Contract Time must be submitted in writing to the Engineer within 30 calendar days of the date that Contractor first encounters the circumstances, information or conditions giving rise to the Change Order request, even if the total amount of the requested change in the Contract Price or impact on the Contract Time is not yet known at that time. If Town requests that Contractor propose the terms of a Change Order, unless otherwise specified in Town’s request, Contractor must provide the Engineer with a written proposal for the change in the Contract Price or Contract Time within five working days of receiving Town’s request, in a form satisfactory to the Engineer.
- B. **Required Contents.** Any Change Order request or proposal submitted by Contractor must include a complete breakdown of actual or estimated costs and credits, and must itemize labor, materials, equipment, taxes,

insurance, subcontract amounts, and, if applicable, Extra Work Reports. Any estimated cost must be updated in writing as soon as the actual amount is known.

- C. **Required Documentation.** All claimed costs must be fully documented, and any related request for an extension of time or delay-related costs must be included at that time and in compliance with the requirements of Article 5 of the General Conditions. Upon request, Contractor must permit Town to inspect its original and unaltered bidding records, subcontract agreements, subcontract change orders, purchase orders, invoices, or receipts associated with the claimed costs.
- D. **Required Form.** Contractor must use Town's form(s) for submitting all Change Order requests or proposals, unless otherwise specified by Town.
- E. **Certification.** All Change Order requests must be signed by Contractor and must include the following certification:

"The undersigned Contractor certifies under penalty of perjury that its statements and representations in this Change Order request are true and correct. Contractor warrants that this Change Order request is comprehensive and complete as to the Work or changes referenced herein, and agrees that any known or foreseeable costs, expenses, or time extension requests not included herein, are deemed waived."

6.3 Adjustments to Contract Price. The amount of any increase or decrease in the Contract Price will be determined based on one of the following methods listed below, in the order listed with unit pricing taking precedence over the other methods. Markup applies only to Town-authorized time and material Work, and does not apply to any other payments to Contractor. For Work items or components that are deleted in their entirety, Contractor will only be entitled to compensation for those direct, actual, and documented costs (including restocking fees), reasonably incurred before Contractor was notified of the Town's intent to delete the Work, with no markup for overhead, profit, or other indirect costs.

- A. **Unit Pricing.** Amounts previously provided by Contractor in the form of unit prices, either in a bid schedule or in a post-award schedule of values pursuant to Section 8.1, Schedule of Values, will apply to determine the price for the affected Work, to the extent applicable unit prices have been provided for that type of Work. No additional markup for overhead, profit, or other indirect costs will be added to the calculation.
- B. **Lump Sum.** A mutually agreed upon, all-inclusive lump sum price for the affected Work with no additional markup for overhead, profit, or other indirect costs.
- C. **Time and Materials.** On a time and materials basis, if and only to the extent compensation on a time and materials basis is expressly authorized by Town in advance of Contractor's performance of the Work and subject to any not-to-exceed limit. Time and materials compensation for increased costs or Extra Work (but not decreased costs or deleted Work), will include allowed markup for overhead, profit, and other indirect costs, calculated as the total of the following sums, the cumulative total of which may not exceed the maximum markup rate of 15%:
 - 1. All direct labor costs provided by the Contractor, excluding superintendence, project management, or administrative costs, plus 15% markup;
 - 2. All direct material costs provided by the Contractor, including sales tax, plus 15% markup;

3. All direct plant and equipment rental costs provided by the Contractor, plus 15% markup;
4. All direct additional subcontract costs plus 10% markup for Work performed by Subcontractors; and
5. Increased bond or insurance premium costs computed at 1.5% of total of the previous four sums.

6.4 Unilateral Change Order. If the parties dispute the terms of a proposed Change Order, including disputes over the amount of compensation or extension of time that Contractor has requested, the value of deleted or changed Work, what constitutes Extra Work, or quantities used, Town may elect to issue a unilateral Change Order, directing performance of the Work, and authorizing a change in the Contract Price or Contract Time for the adjustment to compensation or time that the Town believes is merited. Contractor's sole recourse to dispute the terms of a unilateral Change Order is to submit a timely Claim pursuant to Article 12, below.

6.5 Non-Compliance Deemed Waiver. Contractor waives its entitlement to any increase in the Contract Price or Contract Time if Contractor fails to fully comply with the provisions of this Article. Contractor will not be paid for unauthorized Extra Work.

Article 7 - General Construction Provisions

7.1 Permits, Fees, Business License, and Taxes.

- A. **Permits, Fees, and Town Business License.** Contractor must obtain and pay for all permits, fees, and licenses required to perform the Work, including a Town business license. Contractor must cooperate with and provide notifications to all government agencies with jurisdiction over the Project, as may be required. Contractor must provide Town with copies of all records of permits and permit applications, payment of required fees, and any licenses required for the Work.
- B. **Taxes.** Contractor must pay for all taxes on labor, material, and equipment, except Federal Excise Tax to the extent that Town is exempt from Federal Excise Tax.

7.2 Temporary Facilities. Contractor must provide, at Contractor's sole expense, any and all temporary facilities for the Project, including an onsite staging area for materials and equipment, a field office, sanitary facilities, utilities, storage, scaffolds, barricades, walkways, and any other temporary structure required to safely perform the Work along with any incidental utility services. The location of all temporary facilities must be approved by the Town prior to installation. Temporary facilities must be safe and adequate for the intended use and installed and maintained in accordance with Laws and the Contract Documents. Contractor must fence and screen the Project site and, if applicable, any separate Worksites, including the staging area, and its operation must minimize inconvenience to neighboring properties. Additional provisions pertaining to temporary facilities may be included in the Specifications or Special Conditions.

- A. **Utilities.** Contractor must install and maintain the power, water, sewer, and all other utilities required for the Project site, including the piping, wiring, internet and wifi connections, and any related equipment necessary to maintain the temporary facilities.
- B. **Removal and Repair.** Contractor must promptly remove all such temporary facilities when they are no longer needed or upon completion of the Work, whichever comes first. Contractor must promptly repair any damage to Town's property or to other property caused by the installation, use, or removal of the temporary facilities, and must promptly restore the property to its original or intended condition.

7.3 Noninterference and Site Management. Contractor must avoid interfering with Town's use of its property at or adjacent to the Project site, including use of roadways, entrances, parking areas, walkways, and structures. Contractor must also minimize disruption of access to private property in the Project vicinity. Contractor must coordinate with affected property owners, tenants, and businesses, and maintain some vehicle and pedestrian access to their residences or properties at all times. Temporary access ramps, fencing or other measures must be provided as needed. Before blocking access to a private driveway or parking lot, Contractor must provide effective notice to the affected parties at least 48 hours in advance of the pending closure and allow them to remove vehicles. Private driveways, residences and parking lots must have access to a roadway during non-Work hours.

- A. **Offsite Acquisition.** Unless otherwise provided by Town, Contractor must acquire, use, and dispose of, at its sole expense, any Worksites, licenses, easements, and temporary facilities necessary to access and perform the Work.
- B. **Offsite Staging Area and Field Office.** If additional space beyond the Project site is needed, such as for the staging area or the field office, Contractor may need to make arrangements with the nearby property owner(s) to secure the space. Before using or occupying any property owned by a third party, Contractor must provide Town with a copy of the necessary license agreement, easement, or other written authorization from the property owner, together with a written release from the property owner holding Town harmless from any related liability, in a form acceptable to the Town Attorney.
- C. **Traffic Management.** Contractor must provide traffic management and traffic controls as specified in the Contract Documents, as required by Laws, and as otherwise required to ensure public and worker safety, and to avoid interference with public or private operations or the normal flow of vehicular, bicycle, or pedestrian traffic.

7.4 Signs. No signs may be displayed on or about Town's property, except signage which is required by Laws or by the Contract Documents, without Town's prior written approval as to size, design, and location.

7.5 Project Site and Nearby Property Protections.

- A. **General.** Contractor is responsible at all times, on a 24-hour basis and at its sole cost, for protecting the Work, the Project site, and the materials and equipment to be incorporated into the Work, until the Town has accepted the Project, excluding any exceptions to acceptance, if any. Except as specifically authorized by Town, Contractor must confine its operations to the area of the Project site indicated in the Plans and Specifications. Contractor is liable for any damage caused by Contractor or its Subcontractors to the Work, Town's property, the property of adjacent or nearby property owners and the work or personal property of other contractors working for Town, including damage related to Contractor's failure to adequately secure the Work or any Worksite.
 - 1. Subject to Town's approval, Contractor will provide and install safeguards to protect the Work; any Worksite, including the Project site; Town's real or personal property and the real or personal property of adjacent or nearby property owners, including plant and tree protections.
 - 2. Town wastewater systems may not be interrupted. If the Work disrupts existing sewer facilities, Contractor must immediately notify Town and establish a plan, subject to Town's approval, to convey the sewage in

closed conduits back into the sanitary sewer system. Sewage must not be permitted to flow in trenches or be covered by backfill.

3. Contractor must remove with due care, and store at Town's request, any objects or material from the Project site that Town will salvage or reuse at another location.
 4. If directed by Engineer, Contractor must promptly repair or replace any property damage, as specified by the Engineer. However, acting in its sole discretion, Town may elect to have the property damage remedied otherwise, and may deduct the cost to repair or replace the damaged property from payment otherwise due to Contractor.
 5. Contractor will not permit any structure or infrastructure to be loaded in a manner that will damage or endanger the integrity of the structure or infrastructure.
- B. **Securing Project Site.** After completion of Work each day, Contractor must secure the Project site and, to the extent feasible, make the area reasonably accessible to the public unless Town approves otherwise. All excess materials and equipment not protected by approved traffic control devices must be relocated to the staging area or demobilized. Trench spoils must be hauled off the Project site daily and open excavations must be protected with steel plates. Contractor and Subcontractor personnel may not occupy or use the Project site for any purpose during non-Work hours, except as may be provided in the Contract Documents or pursuant to prior written authorization from Town.
- C. **Unforeseen Conditions.** If Contractor encounters facilities, utilities, or other unknown conditions not shown on or reasonably inferable from the Plans or apparent from inspection of the Project site, Contractor must immediately notify the Town and promptly submit a Request for Information to obtain further directions from the Engineer. Contractor must avoid taking any action which could cause damage to the facilities or utilities pending further direction from the Engineer. The Engineer's written response will be final and binding on Contractor. If the Engineer's subsequent direction to Contractor affects Contractor's cost or time to perform the Work, Contractor may submit a Change Order request as set forth in Article 6 above.
- D. **Support; Adjacent Properties.** Contractor must provide, install, and maintain all shoring, bracing, and underpinning necessary to provide support to Town's property and adjacent properties and improvements thereon. Contractor must provide notifications to adjacent property owners as may be required by Laws. See also, Section 7.15, Trenching of Five Feet or More.
- E. **Notification of Property Damage.** Contractor must immediately notify the Town of damage to any real or personal property resulting from Work on the Project. Contractor must immediately provide a written report to Town of any such property damage in excess of \$500 (based on estimated cost to repair or replace) within 24 hours of the occurrence. The written report must include: (1) the location and nature of the damage, and the owner of the property, if known; (2) the name and address of each employee of Contractor or any Subcontractor involved in the damage; (3) a detailed description of the incident, including precise location, time, and names and contact information for known witnesses; and (4) a police or first responder report, if applicable. If Contractor is required to file an accident report with another government agency, Contractor will provide a copy of the report to Town.

7.6 Materials and Equipment.

- A. **General.** Unless otherwise specified, all materials and equipment required for the Work must be new, free from defects, and of the best grade for the intended purpose, and furnished in sufficient quantities to ensure the proper and expeditious performance of the Work. Contractor must employ measures to preserve the specified quality and fitness of the materials and equipment. Unless otherwise specified, all materials and equipment required for the Work are deemed to include all components required for complete installation and intended operation and must be installed in accordance with the manufacturer's recommendations or instructions. Contractor is responsible for all shipping, handling, and storage costs associated with the materials and equipment required for the Work. Contractor is responsible for providing security and protecting the Work and all of the required materials, supplies, tools and equipment at Contractor's sole cost until Town has formally accepted the Project as set forth in Section 11.1, Final Completion. Contractor will not assign, sell, mortgage, or hypothecate any materials or equipment for the Project, or remove any materials or equipment that have been installed or delivered.
- B. **Town-Provided.** If the Work includes installation of materials or equipment to be provided by Town, Contractor is solely responsible for the proper examination, handling, storage, and installation in accordance with the Contract Documents. Contractor must notify Town of any defects discovered in Town-provided materials or equipment, sufficiently in advance of scheduled use or installation to afford adequate time to procure replacement materials or equipment as needed. Contractor is solely responsible for any loss of or damage to such items which occurs while the items are in Contractor's custody and control, the cost of which may be offset from the Contract Price and deducted from any payment(s) due to Contractor.
- C. **Intellectual Property Rights.** Contractor must, at its sole expense, obtain any authorization or license required for use of patented or copyright-protected materials, equipment, devices, or processes that are incorporated into the Work. Contractor's indemnity obligations in Article 4 apply to any claimed violation of intellectual property rights in violation of this provision.

7.7 Substitutions.

- A. **"Or Equal."** Any Specification designating a material, product, or thing (collectively, "item") or service by specific brand or trade name, followed by the words "or equal," is intended only to indicate the quality and type of item or service desired, and Contractor may request use of any equal item or service. Unless otherwise stated in the Specifications, any reference to a specific brand or trade name for an item or service that is used solely for the purpose of describing the type of item or service desired, will be deemed to be followed by the words "or equal." A substitution will only be approved if it is a true "equal" item or service in every aspect of design, function, and quality, as determined by Town, including dimensions, weight, maintenance requirements, durability, fit with other elements, and schedule impacts.
- B. **Request for Substitution.** A post-award request for substitution of an item or service must be submitted in writing to the Engineer for approval in advance, within the applicable time period provided in the Contract Documents. If no time period is specified, the substitution request may be submitted any time within 35 days after the date of award of the Contract, or sufficiently in advance of the time needed to avoid delay of the Work, whichever is earlier.

- C. **Substantiation.** Any available data substantiating the proposed substitute as an equal item or service must be submitted with the written request for substitution. Contractor's failure to timely provide all necessary substantiation, including any required test results as soon as they are available, is grounds for rejection of the proposed substitution, without further review.
- D. **Burden of Proving Equality.** Contractor has the burden of proving the equality of the proposed substitution at Contractor's sole cost. Town has sole discretion to determine whether a proposed substitution is equal, and Town's determination is final.
- E. **Approval or Rejection.** If the proposed substitution is approved, Contractor is solely responsible for any additional costs or time associated with the substituted item or service. If the proposed substitution is rejected, Contractor must, without delay, install the item or use the service as specified by Town.
- F. **Contractor's Obligations.** Town's approval of a proposed substitution will not relieve Contractor from any of its obligations under the Contract Documents. In the event Contractor makes an unauthorized substitution, Contractor will be solely responsible for all resulting cost impacts, including the cost of removal and replacement and the impact to other design elements.

7.8 Testing and Inspection.

- A. **General.** All materials, equipment, and workmanship used in the Work are subject to inspection and testing by Town at all times and at all locations during construction and/or fabrication, including at any Worksite, shops, and yards. All manufacturers' application or installation instructions must be provided to the Inspector at least ten days prior to the first such application or installation. Contractor must, at all times, make the Work available for testing or inspection. Neither Town's inspection or testing of Work, nor its failure to do so, operate to waive or limit Contractor's duty to complete the Work in accordance with the Contract Documents.
- B. **Scheduling and Notification.** Contractor must cooperate with Town in coordinating the inspections and testing. Contractor must submit samples of materials, at Contractor's expense, and schedule all tests required by the Contract Documents in time to avoid any delay to the progress of the Work. Contractor must notify the Engineer no later than noon of the Working Day before any inspection or testing and must provide timely notice to the other necessary parties as specified in the Contract Documents. If Contractor schedules an inspection or test beyond regular Work hours, or on a Saturday, Sunday, or recognized Town holiday, Contractor must notify the Engineer at least two Working Days in advance for approval. If approved, Contractor must reimburse Town for the cost of the overtime inspection or testing. Such costs, including the Town's hourly costs for required personnel, may be deducted from payments otherwise due to Contractor.
- C. **Responsibility for Costs.** Town will bear the initial cost of inspection and testing to be performed by independent consultants retained by Town, subject to the following exceptions:
 - 1. Contractor will be responsible for the costs of any subsequent inspections or tests which are required to substantiate compliance with the Contract Documents, and any associated remediation costs.
 - 2. Contractor will be responsible for inspection costs, at Town's hourly rates, for inspection time lost because the Work is not ready, or Contractor fails to appear for a scheduled inspection.

3. If any portion of the Work that is subject to inspection or testing is covered or concealed by Contractor prior to the inspection or testing, Contractor will bear the cost of making that portion of the Work available for the inspection or testing required by the Contract Documents, and any associated repair or remediation costs.
 4. Contractor is responsible for properly shoring all compaction test sites deeper than five feet below grade, as required under Section 7.15 below.
 5. Any Work or material that is defective or fails to comply with the requirements of the Contract Documents must be promptly repaired, removed, replaced, or corrected by Contractor, at Contractor's sole expense, even if that Work or material was previously inspected or included in a progress payment.
- D. **Contractor's Obligations.** Contractor is solely responsible for any delay occasioned by remediation of defective or noncompliant Work or material. Inspection or testing of the Work does not in any way relieve Contractor of its obligations to perform the Work as specified. Any Work done without the inspection(s) or testing required by the Contract Documents will be subject to rejection by Town.
- E. **Distant Locations.** If required off-site testing or inspection must be conducted at a location more than 100 miles from the Project site, Contractor is solely responsible for the additional travel costs required for testing and/or inspection at such locations.
- F. **Final Inspection.** The provisions of this Section 7.8 also apply to final inspection under Article 11, Completion and Warranty Provisions.

7.9 Project Site Conditions and Maintenance. Contractor must at all times, on a 24-hour basis and at its sole cost, maintain the Project site and staging and storage areas in clean, neat, and sanitary condition and in compliance with all Laws pertaining to safety, air quality, and dust control. Adequate toilets must be provided, and properly maintained and serviced for all workers on the Project site, located in a suitably secluded area, subject to Town's prior approval. Contractor must also, on a daily basis and at its sole cost, remove and properly dispose of the debris and waste materials from the Project site.

- A. **Air Emissions Control.** Contractor must not discharge smoke or other air contaminants into the atmosphere in violation of any Laws. Contractor must comply with all Laws, including the California Air Resources Board's In-Use Off-Road Diesel-Fueled Fleets Regulation (13 CCR § 2449 et seq.).
- B. **Dust and Debris.** Contractor must minimize and confine dust and debris resulting from the Work. Contractor must abate dust nuisance by cleaning, sweeping, and immediately sprinkling with water excavated areas of dirt or other materials prone to cause dust, and within one hour after the Engineer notifies Contractor that an airborne nuisance exists. The Engineer may direct that Contractor provide an approved water-spraying truck for this purpose. If water is used for dust control, Contractor will only use the minimum necessary. Contractor must take all necessary steps to keep waste water out of streets, gutters, or storm drains. See Section 7.19, Environmental Control. If Town determines that the dust control is not adequate, Town may have the work done by others and deduct the cost from the Contract Price. Contractor will immediately remove any excess excavated material from the Project site and any dirt deposited on public streets.

- C. **Clean up.** Before discontinuing Work in an area, Contractor must clean the area and remove all debris and waste along with the construction equipment, tools, machinery, and surplus materials.
1. Except as otherwise specified, all excess Project materials, and the materials removed from existing improvements on the Project site with no salvage value or intended reuse by Town, will be Contractor's property.
 2. Hauling trucks and other vehicles leaving the Project site must be cleaned of exterior mud, dirt, oil, emulsion, etc. before traveling on Town streets. Materials and loose debris must be delivered and loaded to prevent dropping materials or debris. Contractor must immediately remove spillage from hauling or tracking on any publicly traveled way. Streets affected by Work on the Project must be kept clean by street sweeping.
- D. **Disposal.** Contractor must dispose of all Project debris and waste materials in a safe and legal manner. Contractor may not burn or bury waste materials on the Project site. Contractor will not allow any dirt, refuse, excavated material, surplus concrete or mortar, or any associated washings, to be disposed of onto streets, into manholes or into the storm drain system.
- E. **Completion.** At the completion of the Work, Contractor must remove from the Project site all of its equipment, tools, surplus materials, waste materials and debris, presenting a clean and neat appearance. Before demobilizing from the Project site, Contractor must ensure that all surfaces are cleaned, sealed, waxed, or finished as applicable, and that all marks, stains, paint splatters, and the like have been properly removed from the completed Work and the surrounding areas. Contractor must ensure that all parts of the construction are properly joined with the previously existing and adjacent improvements and conditions. Contractor must provide all cutting, fitting and patching needed to accomplish that requirement. Contractor must also repair or replace all existing improvements that are damaged or removed during the Work, both on and off the Project site, including curbs, sidewalks, driveways, fences, signs, landscaping, utilities, street surfaces and structures. Repairs and replacements must be at least equal to the previously existing improvements, and the condition, finish and dimensions must match the previously existing improvements. Contractor must restore to original condition all property or items that are not designated for alteration under the Contract Documents and leave each Worksite clean and ready for occupancy or use by Town.
- F. **Non-Compliance.** If Contractor fails to comply with its maintenance and cleanup obligations or any Town clean up order, Town may, acting in its sole discretion, elect to suspend the Work until the condition(s) is corrected with no increase in the Contract Time or Contract Price, or undertake appropriate cleanup measures without further notice and deduct the cost from any amounts due or to become due to Contractor.

7.10 Instructions and Manuals. Contractor must provide to Town three copies each of all instructions and manuals required by the Contract Documents, unless otherwise specified. These must be complete as to drawings, details, parts lists, performance data, and other information that may be required for Town to easily maintain and service the materials and equipment installed for this Project.

- A. **Submittal Requirements.** All manufacturers' application or installation instructions must be provided to Town at least ten days prior to the first such application. The instructions and manuals, along with any required guarantees, must be delivered to Town for review.

- B. **Training.** Contractor or its Subcontractors must train Town's personnel in the operation and maintenance of any complex equipment or systems as a condition precedent to Final Completion, if required in the Contract Documents.

7.11 As-built Drawings. Contractor and its Subcontractors must prepare and maintain at the Project site a detailed, complete and accurate as-built set of the Plans which will be used solely for the purpose of recording changes made in any portion of the original Plans in order to create accurate record drawings at the end of the Project.

- A. **Duty to Update.** The as-built drawings must be updated as changes occur, on a daily basis if necessary. Town may withhold the estimated cost for Town to have the as-built drawings prepared from payments otherwise due to Contractor, until the as-built drawings are brought up to date to the satisfaction of Town. Actual locations to scale must be identified on the as-built drawings for all runs of mechanical and electrical work, including all site utilities installed underground, in walls, floors, or otherwise concealed. Deviations from the original Plans must be shown in detail. The exact location of all main runs, whether piping, conduit, ductwork or drain lines, must be shown by dimension and elevation. The location of all buried pipelines, appurtenances, or other improvements must be represented by coordinates and by the horizontal distance from visible above-ground improvements.
- B. **Final Completion.** Contractor must verify that all changes in the Work are depicted in the as-built drawings and must deliver the complete set of as-built drawings to the Engineer for review and acceptance as a condition precedent to Final Completion and Final Payment.

7.12 Existing Utilities.

- A. **General.** The Work may be performed in developed, urban areas with existing utilities, both above and below ground, including utilities identified in the Contract Documents or in other informational documents or records. Contractor must take due care to locate identified or reasonably identifiable utilities before proceeding with trenching, excavation, or any other activity that could damage or disrupt existing utilities. This may include excavation with small equipment, potholing, or hand excavation, and, if practical, using white paint or other suitable markings to delineate the area to be excavated. Except as otherwise provided herein, Contractor will be responsible for costs resulting from damage to identified or reasonably identifiable utilities due to Contractor's negligence or failure to comply with the Contract Documents, including the requirements in this Article 7.
- B. **Unidentified Utilities.** Pursuant to Government Code § 4215, if, during the performance of the Work, Contractor discovers utility facilities not identified by Town in the Contract Documents, Contractor must immediately provide written notice to Town and the utility. Town assumes responsibility for the timely removal, relocation, or protection of existing main or trunkline utility facilities located on the Project site if those utilities are not identified in the Contract Documents. Contractor will be compensated in accordance with the provisions of the Contract Documents for the costs of locating, repairing damage not due to Contractor's failure to exercise reasonable care, and removing or relocating utility facilities not indicated in the Plans or Specifications with reasonable accuracy, and for equipment on the Project necessarily idled during such work. Contractor will not be assessed liquidated damages for delay in completion of the Work, to the extent the delay was caused by Town's failure to provide for removal or relocation of the utility facilities.

7.13 Notice of Excavation. Contractor must comply with all applicable requirements in Government Code § 4216 et seq., which are incorporated by reference herein.

7.14 Trenching and Excavations of Four Feet or More. As required by Public Contract Code § 7104, if the Work includes digging trenches or other excavations that extend deeper than four feet below the surface, the provisions in this Section apply to the Work and the Project.

- A. **Duty to Notify.** Contractor must promptly, and before the following conditions are disturbed, provide written notice to Town if Contractor finds any of the following conditions:
1. Material that Contractor believes may be a hazardous waste, as defined in § 25117 of the Health and Safety Code, that is required to be removed to a Class I, Class II, or Class III disposal site in accordance with the provisions of existing Laws;
 2. Subsurface or latent physical conditions at the Project site differing from those indicated by information about the Project site made available to bidders prior to the deadline for submitting bids; or
 3. Unknown physical conditions at the Project site of any unusual nature, materially different from those ordinarily encountered and generally recognized as inherent in work of the character required by the Contract Documents.
- B. **Town Investigation.** Town will promptly investigate the conditions and if Town finds that the conditions materially differ from those indicated, apparent, or reasonably inferred from information about the Project site made available to bidders, or involve hazardous waste, and cause a decrease or increase in Contractor's cost of, or the time required for, performance of any part of the Work, Town will issue a Change Order.
- C. **Disputes.** In the event that a dispute arises between Town and Contractor regarding any of the conditions specified in subsection (B) above, or the terms of a Change Order issued by Town, Contractor will not be excused from completing the Work within the Contract Time, but must proceed with all Work to be performed under the Contract. Contractor will retain any and all rights provided either by the Contract or by Laws which pertain to the resolution of disputes between Contractor and Town.

7.15 Trenching of Five Feet or More. As required by Labor Code § 6705, if the Contract Price exceeds \$25,000 and the Work includes the excavation of any trench or trenches of five feet or more in depth, a detailed plan must be submitted to Town for acceptance in advance of the excavation. The detailed plan must show the design of shoring, bracing, sloping, or other provisions to be made for worker protection from the hazard of caving ground during the excavation. If the plan varies from the shoring system standards, it must be prepared by a California registered civil or structural engineer. Use of a shoring, sloping, or protective system less effective than that required by the Construction Safety Orders is prohibited.

7.16 New Utility Connections. Except as otherwise specified, Town will pay connection charges and meter costs for new permanent utilities required by the Contract Documents, if any. Contractor must notify Town sufficiently in advance of the time needed to request service from each utility provider so that connections and services are initiated in accordance with the Project schedule.

7.17 Lines and Grades. Contractor is required to use any benchmark provided by the Engineer. Unless otherwise specified in the Contract Documents, Contractor must provide all lines and grades required to execute the Work. Contractor must also provide, preserve, and replace if necessary, all construction stakes required for the Project. All stakes or marks must be set by a California licensed surveyor or a California registered civil engineer. Contractor must notify the Engineer of any discrepancies found between Contractor's staking and grading and information provided by

the Contract Documents. Upon completion, all Work must conform to the lines, elevations, and grades shown in the Plans, including any changes directed by a Change Order.

7.18 Historic or Archeological Items.

- A. **Contractor's Obligations.** Contractor must ensure that all persons performing Work at the Project site are required to immediately notify the Project Manager, upon discovery of any potential historic or archeological items, including historic or prehistoric ruins, a burial ground, archaeological or vertebrate paleontological site, including fossilized footprints or other archeological, paleontological or historical feature on the Project site (collectively, "Historic or Archeological Items").
- B. **Discovery; Cessation of Work.** Upon discovery of any potential Historic or Archeological Items, Work must be stopped within an 85-foot radius of the find and may not resume until authorized in writing by Town. If required by Town, Contractor must assist in protecting or recovering the Historic or Archeological Items, with any such assistance to be compensated as Extra Work on a time and materials basis under Article 6, Contract Modification. At Town's discretion, a suspension of Work required due to discovery of Historic or Archeological Items may be treated as Excusable Delay pursuant to Article 5, or as a suspension for convenience under Article 13.

7.19 Environmental Control. Contractor must not pollute any drainage course or its tributary inlets with fuels, oils, bitumens, acids, insecticides, herbicides or other harmful materials. Contractor must prevent the release of any hazardous material or hazardous waste into the soil or groundwater, and prevent the unlawful discharge of pollutants into Town's storm drain system and watercourses as required below. Contractor and its Subcontractors must at all times in the performance of the Work comply with all Laws concerning pollution of waterways.

- A. **Stormwater Permit.** Contractor must comply with all applicable conditions of the State Water Resources Control Board National Pollutant Discharge Elimination System General Permit for Waste Discharge Requirements for Discharges of Stormwater Runoff Associated with Construction Activity ("Stormwater Permit").
- B. **Contractor's Obligations.** If required for the Work, a copy of the Stormwater Permit is on file in Town's principal administrative offices, and Contractor must comply with it without adjustment of the Contract Price or the Contract Time. Contractor must timely and completely submit required reports and monitoring information required by the conditions of the Stormwater Permit. Contractor also must comply with all other Laws governing discharge of stormwater, including applicable municipal stormwater management programs.

7.20 Noise Control. Contractor must comply with all applicable noise control Laws. Noise control requirements apply to all equipment used for the Work or related to the Work, including trucks, transit mixers or transient equipment that may or may not be owned by Contractor.

7.21 Mined Materials. Pursuant to the Surface Mining and Reclamation Act of 1975, Public Resources Code § 2710 et seq., any purchase of mined materials, such as construction aggregate, sand, gravel, crushed stone, road base, fill materials, and any other mineral materials must originate from a surface mining operation included on the AB 3098 List, which may be accessed online at: <https://www.conservation.ca.gov/smgf/Pages/AB-3098-List.aspx>.

Article 8 - Payment

8.1 Schedule of Values. Prior to submitting its first application for payment, Contractor must prepare and submit to the Project Manager a schedule of values apportioned to the various divisions and phases of the Work, including mobilization and demobilization. If a Bid Schedule was submitted with Contractor's bid, the amounts in the schedule of values must be consistent with the Bid Schedule. Each line item contained in the schedule of values must be assigned a value such that the total of all items equals the Contract Price. The items must be sufficiently detailed to enable accurate evaluation of the percentage of completion claimed in each application for payment, and the assigned value consistent with any itemized or unit pricing submitted with Contractor's bid.

- A. **Measurements for Unit Price Work.** Materials and items of Work to be paid for on the basis of unit pricing will be measured according to the methods specified in the Contract Documents.
- B. **Deleted or Reduced Work.** Contractor will not be compensated for Work that Town has deleted or reduced in scope, except for any labor, material, or equipment costs for such Work that Contractor reasonably incurred before Contractor learned that the Work could be deleted or reduced. Contractor will only be compensated for those actual, direct and documented costs incurred, and will not be entitled to any mark up for overhead or lost profits.

8.2 Progress Payments. Following the last day of each month, or as otherwise required by the Special Conditions or Specifications, Contractor will submit to the Project Manager a monthly application for payment for Work performed during the preceding month based on the estimated value of the Work performed during that preceding month.

- A. **Application for Payment.** Each application for payment must be itemized to include labor, materials, and equipment incorporated into the Work, and materials and equipment delivered to the Project site, as well as authorized and approved Change Orders. Each payment application must be supported by the unit prices submitted with Contractor's Bid Schedule and/or schedule of values and any other substantiating data required by the Contract Documents.
- B. **Payment of Undisputed Amounts.** Town will pay the undisputed amount due within 30 days after Contractor has submitted a complete and accurate payment application, subject to Public Contract Code § 20104.50. Town will deduct a percentage from each progress payment as retention, as set forth in Section 8.5, below, and may deduct or withhold additional amounts as set forth in Section 8.3, below.

8.3 Adjustment of Payment Application. Town may adjust or reject the amount requested in a payment application, including application for Final Payment, in whole or in part, if the amount requested is disputed or unsubstantiated. Contractor will be notified in writing of the basis for the modification to the amount requested. Town may also deduct or withhold from payment otherwise due based upon any of the circumstances and amounts listed below. Sums withheld from payment otherwise due will be released when the basis for that withholding has been remedied and no longer exists.

- A. For Contractor's unexcused failure to perform the Work as required by the Contract Documents, including correction or completion of punch list items, Town may withhold or deduct an amount based on the Town's estimated cost to correct or complete the Work.
- B. For loss or damage caused by Contractor or its Subcontractors arising out of or relating to performance of the Work or any failure to protect the Project site, Town may deduct an amount based on the estimated cost to repair or replace.

- C. For Contractor's failure to pay its Subcontractors and suppliers when payment is due, Town may withhold an amount equal to the total of past due payments and may opt to pay that amount separately via joint check pursuant to Section 8.6(B), Joint Checks.
- D. For Contractor's failure to timely correct rejected, nonconforming, or defective Work, Town may withhold or deduct an amount based on the Town's estimated cost to correct or complete the Work.
- E. For any unreleased stop notice, Town may withhold 125% of the amount claimed.
- F. For Contractor's failure to submit any required schedule or schedule update in the manner specified or within the time specified in the Contract Documents, Town may withhold an amount equal to five percent of the total amount requested until Contractor complies with its schedule submittal obligations.
- G. For Contractor's failure to maintain or submit as-built documents in the manner specified or within the time specified in the Contract Documents, Town may withhold or deduct an amount based on the Town's cost to prepare the as-builts.
- H. For Work performed without Shop Drawings that have been accepted by Town, when accepted Shop Drawings are required before proceeding with the Work, Town may deduct an amount based on the estimated cost to correct unsatisfactory Work or diminution in value.
- I. For fines, payments, or penalties assessed under the Labor Code, Town may deduct from payments due to Contractor as required by Laws and as directed by the Division of Labor Standards Enforcement.
- J. For any other costs or charges that may be withheld or deducted from payments to Contractor, as provided in the Contract Documents, including liquidated damages, Town may withhold or deduct such amounts from payment otherwise due to Contractor.

8.4 Early Occupancy. Neither Town's payment of progress payments nor its partial or full use or occupancy of the Project constitutes acceptance of any part of the Work.

8.5 Retention. Town will retain five percent of the full amount due on each progress payment (i.e., the amount due before any withholding or deductions pursuant to Section 8.3, Adjustment of Payment Application), or the percentage stated in the Notice Inviting Bids, whichever is greater, as retention to ensure full and satisfactory performance of the Work. Contractor is not entitled to any reduction in the rate of withholding at any time, nor to release of any retention before 35 days following Town's acceptance of the Project.

- A. **Substitution of Securities.** As provided by Public Contract Code § 22300, Contractor may request in writing that it be allowed, at its sole expense, to substitute securities for the retention withheld by Town. Any escrow agreement entered into pursuant to this provision must fully comply with Public Contract Code § 22300 and will be subject to approval as to form by Town's legal counsel. If Town exercises its right to draw upon such securities in the event of default pursuant to section (7) of the statutory Escrow Agreement for Security Deposits in Lieu of Retention, pursuant to subdivision (g) of Public Contract Code § 22300 ("Escrow Agreement"), and if Contractor disputes that it is in default, its sole remedy is to comply with the dispute resolution procedures in Article 12 and the provisions therein. It is agreed that for purposes of this paragraph, an event of default includes Town's rights pursuant to these Contract Documents to withhold or deduct sums from retention, including withholding or deduction for liquidated damages, incomplete or defective Work, stop payment

notices, or backcharges. It is further agreed that if any individual authorized to give or receive written notice on behalf of a party pursuant to section (10) of the Escrow Agreement are unavailable to give or receive notice on behalf of that party due to separation from employment, retirement, death, or other circumstances, the successor or delegee of the named individual is deemed to be the individual authorized to give or receive notice pursuant to section (10) of the Escrow Agreement.

- B. **Release of Undisputed Retention.** All undisputed retention, less any amounts that may be assessed as liquidated damages, retained for stop notices, or otherwise withheld pursuant to Section 8.3, Adjustment of Payment Application, will be released as Final Payment to Contractor no sooner than 35 days following recordation of the notice of completion, and no later than 60 days following acceptance of the Project by Town's governing body or authorized designee pursuant to Section 11.1(C), Acceptance, or, if the Project has not been accepted, no later than 60 days after the Project is otherwise considered complete pursuant to Public Contract Code § 7107(c).

8.6 Payment to Subcontractors and Suppliers. Each month, Contractor must promptly pay each Subcontractor and supplier the value of the portion of labor, materials, and equipment incorporated into the Work or delivered to the Project site by the Subcontractor or supplier during the preceding month. Such payments must be made in accordance with the requirements of Laws pertaining to such payments, and those of the Contract Documents and applicable subcontract or supplier contract.

- A. **Withholding for Stop Notice.** Pursuant to Civil Code § 9358, Town will withhold 125% of the amount claimed by an unreleased stop notice, a portion of which may be retained by Town for the costs incurred in handling the stop notice claim, including attorneys' fees and costs, as authorized by law.
- B. **Joint Checks.** Town reserves the right, acting in its sole discretion, to issue joint checks made payable to Contractor and a Subcontractor or supplier, if Town determines this is necessary to ensure fair and timely payment for a Subcontractor or supplier who has provided services or goods for the Project. As a condition to release of payment by a joint check, the joint check payees may be required to execute a joint check agreement in a form provided or approved by the Town Attorney's Office. The joint check payees will be jointly and severally responsible for the allocation and disbursement of funds paid by joint check. Payment by joint check will not be construed to create a contractual relationship between Town and a Subcontractor or supplier of any tier beyond the scope of the joint check agreement.

8.7 Final Payment. Contractor's application for Final Payment must comply with the requirements for submitting an application for a progress payment as stated in Section 8.2, above. Corrections to previous progress payments, including adjustments to estimated quantities for unit priced items, may be included in the Final Payment. If Contractor fails to submit a timely application for Final Payment, Town reserves the right to unilaterally process and issue Final Payment without an application from Contractor in order to close out the Project. For the purposes of determining the deadline for Claim submission pursuant to Article 12, the date of Final Payment is deemed to be the date that Town acts to release undisputed retention as final payment to Contractor, or otherwise provides written notice to Contractor of Final Payment or that no undisputed funds remain available for Final Payment due to offsetting withholdings or deductions pursuant to Section 8.3, Adjustment of Payment Application. If the amount due from Contractor to Town exceeds the amount of Final Payment, Town retains the right to recover the balance from Contractor or its sureties.

8.8 Release of Claims. Town may, at any time, require that payment of the undisputed portion of any progress payment or Final Payment be contingent upon Contractor furnishing Town with a written waiver and release of all

claims against Town arising from or related to the portion of Work covered by those undisputed amounts subject to the limitations of Public Contract Code § 7100. Any disputed amounts may be specifically excluded from the release.

8.9 Warranty of Title. Contractor warrants that title to all work, materials, or equipment incorporated into the Work and included in a request for payment will pass over to Town free of any claims, liens, or encumbrances upon payment to Contractor.

Article 9 - Labor Provisions

9.1 Discrimination Prohibited. Discrimination against any prospective or present employee engaged in the Work on grounds of race, color, ancestry, national origin, ethnicity, religion, sex, sexual orientation, age, disability, or marital status is strictly prohibited. Contractor and its Subcontractors are required to comply with all applicable Laws prohibiting discrimination, including the California Fair Employment and Housing Act (Govt. Code § 12900 et seq.), Government Code § 11135, and Labor Code §§ 1735, 1777.5, 1777.6, and 3077.5.

9.2 Labor Code Requirements.

- A. **Eight Hour Day.** Pursuant to Labor Code § 1810, eight hours of labor constitute a legal day's work under this Contract.
- B. **Penalty.** Pursuant to Labor Code § 1813, Contractor will forfeit to Town as a penalty, the sum of \$25.00 for each day during which a worker employed by Contractor or any Subcontractor is required or permitted to work more than eight hours in any one calendar day or more than 40 hours per calendar week, except if such workers are paid overtime under Labor Code § 1815.
- C. **Apprentices.** Contractor is responsible for compliance with the requirements governing employment and payment of apprentices, as set forth in Labor Code § 1777.5, which is fully incorporated by reference.
- D. **Notices.** Pursuant to Labor Code § 1771.4, Contractor is required to post all job site notices prescribed by Laws.

9.3 Prevailing Wages. Each worker performing Work under this Contract that is covered under Labor Code §§ 1720, 1720.3, or 1720.9, including cleanup at the Project site, must be paid at a rate not less than the prevailing wage as defined in §§ 1771 and 1774 of the Labor Code. The prevailing wage rates are on file with the Town and available online at <http://www.dir.ca.gov/dlsr>. Contractor must post a copy of the applicable prevailing rates at the Project site.

- A. **Penalties.** Pursuant to Labor Code § 1775, Contractor and any Subcontractor will forfeit to Town as a penalty up to \$200.00 for each calendar day, or portion thereof, for each worker paid less than the applicable prevailing wage rate. Contractor must also pay each worker the difference between the applicable prevailing wage rate and the amount actually paid to that worker.
- B. **Federal Requirements.** If this Project is subject to federal prevailing wage requirements in addition to California prevailing wage requirements, Contractor and its Subcontractors are required to pay the higher of the currently applicable state or federal prevailing wage rates.

9.4 Payroll Records. Contractor must comply with the provisions of Labor Code §§ 1771.4, 1776, and 1812 and all implementing regulations, which are fully incorporated by this reference, including requirements for monthly electronic submission of payroll records to the DIR.

- A. **Contractor and Subcontractor Obligations.** Contractor and each Subcontractor must keep accurate payroll records, showing the name, address, social security number, work classification, straight time and overtime

hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker, or other employee employed in connection with the Work. Each payroll record must contain or be verified by a written declaration that it is made under penalty of perjury, stating both of the following:

1. The information contained in the payroll record is true and correct; and
 2. Contractor or the Subcontractor has complied with the requirements of Labor Code §§ 1771, 1811, and 1815 for any Work performed by its employees on the Project.
- B. **Certified Record.** A certified copy of an employee's payroll record must be made available for inspection or furnished to the employee or his or her authorized representative on request, to Town, to the Division of Labor Standards Enforcement, to the Division of Apprenticeship Standards of the DIR, and as further required by the Labor Code.
- C. **Enforcement.** Upon notice of noncompliance with Labor Code § 1776, Contractor or Subcontractor has ten days in which to comply with the requirements of this section. If Contractor or Subcontractor fails to do so within the ten-day period, Contractor or Subcontractor will forfeit a penalty of \$100.00 per day, or portion thereof, for each worker for whom compliance is required, until strict compliance is achieved. Upon request by the Division of Apprenticeship Standards, or the Division of Labor Standards Enforcement, these penalties will be withheld from payments then due to Contractor.

9.5 Labor Compliance. Pursuant to Labor Code § 1771.4, the Contract for this Project is subject to compliance monitoring and enforcement by the DIR.

Article 10 - Safety Provisions

10.1 Safety Precautions and Programs. Contractor and its Subcontractors are fully responsible for safety precautions and programs, and for the safety of persons and property in the performance of the Work. Contractor and its Subcontractors must at all times comply with all applicable health and safety Laws and seek to avoid injury, loss, or damage to persons or property by taking reasonable steps to protect its employees and other persons at any Worksite, materials and equipment stored on or off site, and property at or adjacent to any Worksite.

- A. **Reporting Requirements.** Contractor must immediately notify the Town of any death, serious injury or illness resulting from Work on the Project. Contractor must immediately provide a written report to Town of each recordable accident or injury occurring at any Worksite within 24 hours of the occurrence. The written report must include: (1) the name and address of the injured or deceased person; (2) the name and address of each employee of Contractor or of any Subcontractor involved in the incident; (3) a detailed description of the incident, including precise location, time, and names and contact information for known witnesses; and (4) a police or first responder report, if applicable. If Contractor is required to file an accident report with a government agency, Contractor will provide a copy of the report to Town.
- B. **Legal Compliance.** Contractor's safety program must comply with the applicable legal and regulatory requirements. Contractor must provide Town with copies of all notices required by Laws.
- C. **Contractor's Obligations.** Any damage or loss caused by Contractor arising from the Work which is not insured under property insurance must be promptly remedied by Contractor.

- D. **Remedies.** If Town determines, in its sole discretion, that any part of the Work or Project site is unsafe, Town may, without assuming responsibility for Contractor's safety program, require Contractor or its Subcontractor to cease performance of the Work or to take corrective measures to Town's satisfaction. If Contractor fails to promptly take the required corrective measures, Town may perform them and deduct the cost from the Contract Price. Contractor agrees it is not entitled to submit a Claim for damages, for an increase in Contract Price, or for a change in Contract Time based on Contractor's compliance with Town's request for corrective measures pursuant to this provision.

10.2 Hazardous Materials. Unless otherwise specified in the Contract Documents, this Contract does not include the removal, handling, or disturbance of any asbestos or other Hazardous Materials. If Contractor encounters materials on the Project site that Contractor reasonably believes to be asbestos or other Hazardous Materials, and the asbestos or other Hazardous Materials have not been rendered harmless, Contractor may continue Work in unaffected areas reasonably believed to be safe, but must immediately cease work on the area affected and report the condition to Town. No asbestos, asbestos-containing products or other Hazardous Materials may be used in performance of the Work.

10.3 Material Safety. Contractor is solely responsible for complying with § 5194 of Title 8 of the California Code of Regulations, including by providing information to Contractor's employees about any hazardous chemicals to which they may be exposed in the course of the Work. A hazard communication program and other forms of warning and training about such exposure must be used. Contractor must also maintain Safety Data Sheets ("SDS") at the Project site, as required by Laws, for materials or substances used or consumed in the performance of the Work. The SDS will be accessible and available to Contractor's employees, Subcontractors, and Town.

- A. **Contractor Obligations.** Contractor is solely responsible for the proper delivery, handling, use, storage, removal, and disposal of all materials brought to the Project site and/or used in the performance of the Work. Contractor must notify the Engineer if a specified product or material cannot be used safely.
- B. **Labeling.** Contractor must ensure proper labeling on any material brought onto the Project site so that any persons working with or in the vicinity of the material may be informed as to the identity of the material, any potential hazards, and requirements for proper handling, protections, and disposal.

10.4 Hazardous Condition. Contractor is solely responsible for determining whether a hazardous condition exists or is created during the course of the Work, involving a risk of bodily harm to any person or risk of damage to any property. If a hazardous condition exists or is created, Contractor must take all precautions necessary to address the condition and ensure that the Work progresses safely under the circumstances. Hazardous conditions may result from, but are not limited to, use of specified materials or equipment, the Work location, the Project site condition, the method of construction, or the way any Work must be performed.

10.5 Emergencies. In an emergency affecting the safety or protection of persons, Work, or property at or adjacent to any Worksite, Contractor must take reasonable and prompt actions to prevent damage, injury, or loss, without prior authorization from the Town if, under the circumstances, there is inadequate time to seek prior authorization from the Town.

Article 11 - Completion and Warranty Provisions

11.1 Final Completion.

- A. **Final Inspection and Punch List.** When the Work required by this Contract is fully performed, Contractor must provide written notification to Town requesting final inspection. The Engineer will schedule the date and time for final inspection, which must include Contractor's primary representative for this Project and its superintendent. Based on that inspection, Town will prepare a punch list of any items that are incomplete, missing, defective, incorrectly installed, or otherwise not compliant with the Contract Documents. The punch list to Contractor will specify the time by which all of the punch list items must be completed or corrected. The punch list may include Town's estimated cost to complete each punch list item if Contractor fails to do so within the specified time. The omission of any non-compliant item from a punch list will not relieve Contractor from fulfilling all requirements of the Contract Documents. Contractor's failure to complete any punch list item within the time specified in the punch list will not waive or abridge its warranty obligations for any such items that must be completed by the Town or by a third party retained by the Town due to Contractor's failure to timely complete any such outstanding item.
- B. **Requirements for Final Completion.** Final Completion will be achieved upon completion or correction of all punch list items, as verified by Town's further inspection, and upon satisfaction of all other Contract requirements, including any commissioning required under the Contract Documents and submission of all final submittals, including instructions and manuals as required under Section 7.10, and complete, final as-built drawings as required under Section 7.11, all to Town's satisfaction.
- C. **Acceptance.** The Project will be considered accepted upon Town Council action during a public meeting to accept the Project, unless the Engineer is authorized to accept the Project, in which case the Project will be considered accepted upon the date of the Engineer's issuance of a written notice of acceptance. In order to avoid delay of Project close out, the Town may elect, acting in its sole discretion, to accept the Project as complete subject to exceptions for punch list items that are not completed within the time specified in the punch list.
- D. **Final Payment and Release of Retention.** Final Payment and release of retention, less any sums withheld pursuant to the provisions of the Contract Documents, will not be made sooner than 35 days after recordation of the notice of completion. If Contractor fails to complete all of the punch list items within the specified time, Town may withhold up to 150% of Town's estimated cost to complete each of the remaining items from Final Payment and may use the withheld retention to pay for the costs to self-perform the outstanding items or to retain a third party to complete any such outstanding punch list item.

11.2 Warranty.

- A. **General.** Contractor warrants that all materials and equipment will be new unless otherwise specified, of good quality, in conformance with the Contract Documents, and free from defective workmanship and materials. Contractor further warrants that the Work will be free from material defects not intrinsic in the design or materials required in the Contract Documents. Contractor warrants that materials or items incorporated into the Work comply with the requirements and standards in the Contract Documents, including compliance with Laws, and that any Hazardous Materials encountered or used were handled as required by Laws. At Town's request, Contractor must furnish satisfactory evidence of the quality and type of materials and equipment furnished. Contractor's warranty does not extend to damage caused by normal wear and tear, or improper use or maintenance.

- B. **Warranty Period.** Contractor's warranty must guarantee its Work for a period of one year from the date of Project acceptance (the "Warranty Period"), except when a longer guarantee is provided by a supplier or manufacturer or is required by the Specifications or Special Conditions. Contractor must obtain from its Subcontractors, suppliers and manufacturers any special or extended warranties required by the Contract Documents.
- C. **Warranty Documents.** As a condition precedent to Final Completion, Contractor must supply Town with all warranty and guarantee documents relevant to equipment and materials incorporated into the Work and guaranteed by their suppliers or manufacturers.
- D. **Subcontractors.** The warranty obligations in the Contract Documents apply to Work performed by Contractor and its Subcontractors, and Contractor agrees to be co-guarantor of such Work.
- E. **Contractor's Obligations.** Upon written notice from Town to Contractor of any defect in the Work discovered during the Warranty Period, Contractor or its responsible Subcontractor must promptly correct the defective Work at its own cost. Contractor's obligation to correct defects discovered during the Warranty Period will continue past the expiration of the Warranty Period as to any defects in Work for which Contractor was notified prior to expiration of the Warranty Period. Work performed during the Warranty Period ("Warranty Work") will be subject to the warranty provisions in this Section 11.2 for a one-year period that begins upon completion of such Warranty Work to Town's satisfaction.
- F. **Town's Remedies.** If Contractor or its responsible Subcontractor fails to correct defective Work within ten days following notice by Town, or sooner if required by the circumstances, Town may correct the defects to conform with the Contract Documents at Contractor's sole expense. Contractor must reimburse Town for its costs in accordance with subsection (H), below.
- G. **Emergency Repairs.** In cases of emergency where any delay in correcting defective Work could cause harm, loss or damage, Town may immediately correct the defects to conform with the Contract Documents at Contractor's sole expense. Contractor or its surety must reimburse Town for its costs in accordance with subsection (H), below.
- H. **Reimbursement.** Contractor must reimburse Town for its costs to repair under subsections (F) or (G), above, within 30 days following Town's submission of a demand for payment pursuant to this provision. If Town is required to initiate legal action to compel Contractor's compliance with this provision, and Town is the prevailing party in such action, Contractor and its surety are solely responsible for all of Town's attorney's fees and legal costs expended to enforce Contractor's warranty obligations herein, in addition to any and all costs Town incurs to correct the defective Work.

11.3 Use Prior to Final Completion. Town reserves the right to occupy or make use of the Project, or any portions of the Project, prior to Final Completion if Town has determined that the Project or portion of it is in a condition suitable for the proposed occupation or use, and that it is in its best interest to occupy or make use of the Project, or any portions of it, prior to Final Completion.

- A. **Non-Waiver.** Occupation or use of the Project, in whole or in part, prior to Final Completion will not operate as acceptance of the Work or any portion of it, nor will it operate as a waiver of any of Town's rights or Contractor's duties pursuant to these Contract Documents, and will not affect nor bear on the determination of

the time of substantial completion with respect to any statute of repose pertaining to the time for filing an action for construction defect.

- B. **Town's Responsibility.** Town will be responsible for the cost of maintenance and repairs due to normal wear and tear with respect to those portions of the Project that are being occupied or used before Final Completion. The Contract Price or the Contract Time may be adjusted pursuant to the applicable provisions of these Contract Documents if, and only to the extent that, any occupation or use under this Section actually adds to Contractor's cost or time to complete the Work within the Contract Time.

11.4 Substantial Completion. For purposes of determining "substantial completion" with respect to any statute of repose pertaining to the time for filing an action for construction defect, "substantial completion" is deemed to mean the last date that Contractor or any Subcontractor performs Work on the Project prior to Town acceptance of the Project, except for warranty work performed under this Article.

Article 12 - Dispute Resolution

12.1 Claims. This Article applies to and provides the exclusive procedures for any Claim arising from or related to the Contract or performance of the Work.

- A. **Definition.** "Claim" means a separate demand by Contractor, submitted in writing by registered or certified mail with return receipt requested, for a change in the Contract Time, including a time extension or relief from liquidated damages, or a change in the Contract Price, when the demand has previously been submitted to Town in accordance with the requirements of the Contract Documents, and which has been rejected or disputed by Town, in whole or in part. A Claim may also include that portion of a unilateral Change Order that is disputed by the Contractor.
- B. **Limitations.** A Claim may only include the portion of a previously rejected demand that remains in dispute between Contractor and Town. With the exception of any dispute regarding the amount of money actually paid to Contractor as Final Payment, Contractor is not entitled to submit a Claim demanding a change in the Contract Time or the Contract Price, which has not previously been submitted to Town in full compliance with Article 5 and Article 6, and subsequently rejected in whole or in part by Town.
- C. **Scope of Article.** This Article is intended to provide the exclusive procedures for submission and resolution of Claims of any amount and applies in addition to the provisions of Public Contract Code § 9204 and § 20104 et seq., which are incorporated by reference herein.
- D. **No Work Delay.** Notwithstanding the submission of a Claim or any other dispute between the parties related to the Project or the Contract Documents, Contractor must perform the Work and may not delay or cease Work pending resolution of a Claim or other dispute, but must continue to diligently prosecute the performance and timely completion of the Work, including the Work pertaining to the Claim or other dispute.
- E. **Informal Resolution.** Contractor will make a good faith effort to informally resolve a dispute before initiating a Claim, preferably by face-to-face meeting between authorized representatives of Contractor and Town.

12.2 Claims Submission. A Claim must be submitted in writing by registered or certified mail with return receipt requested, and must comply with the following requirements:

- A. **Substantiation.** The Claim must be submitted to Town in writing, clearly identified as a “Claim” submitted pursuant to this Article 12 and must include all of the documents necessary to substantiate the Claim including the Change Order request that was rejected in whole or in part, and a copy of Town’s written rejection that is in dispute. The Claim must clearly identify and describe the dispute, including relevant references to applicable portions of the Contract Documents, and a chronology of relevant events. Any Claim for additional payment must include a complete, itemized breakdown of all known or estimated labor, materials, taxes, insurance, and subcontract, or other costs. Substantiating documentation such as payroll records, receipts, invoices, or the like, must be submitted in support of each component of claimed cost. Any Claim for an extension of time or delay costs must be substantiated with a schedule analysis and narrative depicting and explaining claimed time impacts.
- B. **Claim Format and Content.** A Claim must be submitted submitted in writing by registered or certified mail with return receipt requested in the following format:
1. Provide a cover letter, specifically identifying the submission as a “Claim” submitted under this Article 12 and specifying the requested remedy (e.g., amount of proposed change to Contract Price and/or change to Contract Time).
 2. Provide a summary of each Claim, including underlying facts and the basis for entitlement, and identify each specific demand at issue, including the specific Change Order request (by number and submittal date), and the date of Town's rejection of that demand, in whole or in part.
 3. Provide a detailed explanation of each issue in dispute. For multiple issues included within a single Claim or for multiple Claims submitted concurrently, separately number and identify each individual issue or Claim, and include the following for each separate issue or Claim:
 - a. A succinct statement of the matter in dispute, including Contractor’s position and the basis for that position;
 - b. Identify and attach all documents that substantiate the Claim, including relevant provisions of the Contract Documents, RFIs, calculations, and schedule analysis (see subsection (A), Substantiation, above);
 - c. A chronology of relevant events; and
 - d. Analysis and basis for claimed changes to Contract Price, Contract Time, or any other remedy requested.
 4. Provide a summary of issues and corresponding claimed damages. If, by the time of the Claim submission deadline (below), the precise amount of the requested change in the Contract Price or Contract Time is not yet known, Contractor must provide a good faith estimate, including the basis for that estimate, and must identify the date by which it is anticipated that the Claim will be updated to provide final amounts.
 5. Include the following certification, executed by Contractor’s authorized representative: “The undersigned Contractor certifies under penalty of perjury that its statements and representations in this Claim submittal are true and correct. Contractor warrants that this Claim submittal is comprehensive and complete as to the matters in dispute, and agrees that any costs, expenses, or delay not included herein are deemed waived.”

C. **Submission Deadlines.**

1. A Claim disputing rejection of a request for a change in the Contract Time or Contract Price must be submitted within 30 days following the date that Town notified Contractor in writing that a request for a change in the Contract Time or Contract Price, duly submitted in compliance with Article 5 and Article 6, has been rejected in whole or in part. A Claim disputing the terms of a unilateral Change Order must be submitted within 30 days following the date of issuance of the unilateral Change Order. These Claim deadlines apply even if Contractor cannot yet quantify the total amount of any requested change in the Contract Time or Contract Price. If the Contractor cannot quantify those amounts, it must submit an estimate of the amounts claimed pending final determination of the requested remedy by Contractor.
2. With the exception of any dispute regarding the amount of Final Payment, any Claim must be filed on or before the date of Final Payment or will be deemed waived.
3. A Claim disputing the amount of Final Payment must be submitted within 30 days of the effective date of Final Payment, under Section 8.7, Final Payment.
4. Strict compliance with these Claim submission deadlines is necessary to ensure that any dispute may be mitigated as soon as possible, and to facilitate cost-efficient administration of the Project. **Any Claim that is not submitted within the specified deadlines will be deemed waived by Contractor.**

12.3 Town's Response. Town will respond within 45 days of receipt of the Claim with a written statement identifying which portion(s) of the Claim are disputed, unless the 45-day period is extended by mutual agreement of Town and Contractor or as otherwise allowed under Public Contract Code § 9204. However, if Town determines that the Claim is not adequately substantiated pursuant to Section 12.2(A), Substantiation, Town may first request in writing, within 30 days of receipt of the Claim, any additional documentation supporting the Claim or relating to defenses to the Claim that Town may have against the Claim.

- A. **Additional Information.** If additional information is thereafter required, it may be requested and provided upon mutual agreement of Town and Contractor. If Contractor's Claim is based on estimated amounts, Contractor has a continuing duty to update its Claim as soon as possible with information on actual amounts in order to facilitate prompt and fair resolution of the Claim.
- B. **Non-Waiver.** Any failure by Town to respond within the times specified above will not be construed as acceptance of the Claim, in whole or in part, or as a waiver of any provision of these Contract Documents.

12.4 Meet and Confer. If Contractor disputes Town's written response, or Town fails to respond within the specified time, within 15 days of receipt of Town's response or within 15 days of Town's failure to respond within the applicable 45-day time period under Section 12.3, respectively, Contractor may notify Town of the dispute in writing sent by registered or certified mail, return receipt requested, and demand an informal conference to meet and confer for settlement of the issues in dispute. If Contractor fails to notify Town of the dispute and demand an informal conference to meet and confer in writing within the specified time, Contractor's Claim will be deemed waived.

- A. **Schedule Meet and Confer.** Upon receipt of the demand to meet and confer, Town will schedule the meet and confer conference to be held within 30 days, or later if needed to ensure the mutual availability of each of the individuals that each party requires to represent its interests at the meet and confer conference.

- B. **Location for Meet and Confer.** The meet and confer conference will be scheduled at a location at or near Town's principal office.
- C. **Written Statement After Meet and Confer.** Within ten working days after the meet and confer has concluded, Town will issue a written statement identifying which portion(s) of the Claim remain in dispute, if any.
- D. **Submission to Mediation.** If the Claim or any portion remains in dispute following the meet and confer conference, within ten working days after the Town issues the written statement identifying any portion(s) of the Claim remaining in dispute, the Contractor may identify in writing disputed portion(s) of the Claim, which will be submitted for mediation, as set forth below.

12.5 Mediation and Government Code Claims.

- A. **Mediation.** Within ten working days after the Town issues the written statement identifying any portion(s) of the Claim remaining in dispute following the meet and confer, Town and Contractor will mutually agree to a mediator, as provided under Public Contract Code § 9204. Mediation will be scheduled to ensure the mutual availability of the selected mediator and all of the individuals that each party requires to represent its interests. If there are multiple Claims in dispute, the parties may agree to schedule the mediation to address all outstanding Claims at the same time. The parties will share the costs of the mediator and mediation fees equally, but each party is otherwise solely and separately responsible for its own costs to prepare for and participate in the mediation, including costs for its legal counsel or any other consultants.
- B. **Government Code Claims.**
 1. Timely presentation of a Government Code Claim is a condition precedent to filing any legal action based on or arising from the Contract. Compliance with the Claim submission requirements in this Article 12 is a condition precedent to filing a Government Code Claim.
 2. The time for filing a Government Code Claim will be tolled from the time Contractor submits its written Claim pursuant to Section 12.2, above, until the time that Claim is denied in whole or in part at the conclusion of the meet and confer process, including any period of time used by the meet and confer process. However, if the Claim is submitted to mediation, the time for filing a Government Code Claim will be tolled until conclusion of the mediation, including any continuations, if the Claim is not fully resolved by mutual agreement of the parties during the mediation or any continuation of the mediation.

12.6 Tort Claims. This Article does not apply to tort claims and nothing in this Article is intended nor will be construed to change the time periods for filing tort-based Government Code Claims.

12.7 Arbitration. It is expressly agreed, under Code of Civil Procedure § 1296, that in any arbitration to resolve a dispute relating to this Contract, the arbitrator's award must be supported by law and substantial evidence.

12.8 Burden of Proof and Limitations. Contractor bears the burden of proving entitlement to and the amount of any claimed damages. Contractor is not entitled to damages calculated on a total cost basis, but must prove actual damages. Contractor is not entitled to speculative, special, or consequential damages, including home office overhead or any form of overhead not directly incurred at the Project site or any other Worksite; lost profits; loss of productivity; lost opportunity to work on other projects; diminished bonding capacity; increased cost of financing for the Project; extended capital costs; non-availability of labor, material or equipment due to delays; or any other indirect loss arising

from the Contract. The Eichleay Formula or similar formula will not be used for any recovery under the Contract. The Town will not be directly liable to any Subcontractor or supplier.

12.9 Legal Proceedings. In any legal proceeding that involves enforcement of any requirements of the Contract Documents, the finder of fact will receive detailed instructions on the meaning and operation of the Contract Documents, including conditions, limitations of liability, remedies, claim procedures, and other provisions bearing on the defenses and theories of liability. Detailed findings of fact will be requested to verify enforcement of the Contract Documents. All of the Town's remedies under the Contract Documents will be construed as cumulative, and not exclusive, and the Town reserves all rights to all remedies available under law or equity as to any dispute arising from or relating to the Contract Documents or performance of the Work.

12.10 Other Disputes. The procedures in this Article 12 will apply to any and all disputes or legal actions, in addition to Claims, arising from or related to this Contract, including disputes regarding suspension or early termination of the Contract, unless and only to the extent that compliance with a procedural requirement is expressly and specifically waived by Town. Nothing in this Article is intended to delay suspension or termination under Article 13.

Article 13 - Suspension and Termination

13.1 Suspension for Cause. In addition to all other remedies available to Town, if Contractor fails to perform or correct Work in accordance with the Contract Documents, including non-compliance with applicable environmental or health and safety Laws, Town may immediately order the Work, or any portion of it, suspended until the circumstances giving rise to the suspension have been eliminated to Town's satisfaction.

- A. **Notice of Suspension.** Upon receipt of Town's written notice to suspend the Work, in whole or in part, except as otherwise specified in the notice of suspension, Contractor and its Subcontractors must promptly stop Work as specified in the notice of suspension; comply with directions for cleaning and securing the Worksite; and protect the completed and in-progress Work and materials. Contractor is solely responsible for any damages or loss resulting from its failure to adequately secure and protect the Project.
- B. **Resumption of Work.** Upon receipt of the Town's written notice to resume the suspended Work, in whole or in part, except as otherwise specified in the notice to resume, Contractor and its Subcontractors must promptly re-mobilize and resume the Work as specified; and within ten days from the date of the notice to resume, Contractor must submit a recovery schedule, prepared in accordance with the Contract Documents, showing how Contractor will complete the Work within the Contract Time.
- C. **Failure to Comply.** Contractor will not be entitled to an increase in the Contract Time or Contract Price for a suspension occasioned by Contractor's failure to comply with the Contract Documents.
- D. **No Duty to Suspend.** Town's right to suspend the Work will not give rise to a duty to suspend the Work, and Town's failure to suspend the Work will not constitute a defense to Contractor's failure to comply with the requirements of the Contract Documents.

13.2 Suspension for Convenience. Town reserves the right to suspend, delay, or interrupt the performance of the Work in whole or in part, for a period of time determined to be appropriate for Town's convenience. Upon notice by Town pursuant to this provision, Contractor must immediately suspend, delay, or interrupt the Work and secure the Project site as directed by Town except for taking measures to protect completed or in-progress Work as directed in the suspension notice, and subject to the provisions of Section 13.1(A) and (B), above. If Contractor submits a timely request for a Change Order in compliance with Articles 5 and 6, the Contract Price and the Contract Time will be equitably

adjusted by Change Order pursuant to the terms of Articles 5 and 6 to reflect the cost and delay impact occasioned by such suspension for convenience, except to the extent that any such impacts were caused by Contractor's failure to comply with the Contract Documents or the terms of the suspension notice or notice to resume. However, the Contract Time will only be extended if the suspension causes or will cause unavoidable delay in Final Completion. If Contractor disputes the terms of a Change Order issued for such equitable adjustment due to suspension for convenience, its sole recourse is to comply with the Claim procedures in Article 12.

13.3 Termination for Default. Town may declare that Contractor is in default of the Contract for a material breach of or inability to fully, promptly, or satisfactorily perform its obligations under the Contract.

Default. Events giving rise to a declaration of default include Contractor's refusal or failure to supply sufficient skilled workers, proper materials, or equipment to perform the Work within the Contract Time; Contractor's refusal or failure to make prompt payment to its employees, Subcontractors, or suppliers or to correct defective Work or damage; Contractor's failure to comply with Laws, or orders of any public agency with jurisdiction over the Project; evidence of Contractor's bankruptcy, insolvency, or lack of financial capacity to complete the Work as required within the Contract Time; suspension, revocation, or expiration and nonrenewal of Contractor's license or DIR registration; dissolution, liquidation, reorganization, or other major change in Contractor's organization, ownership, structure, or existence as a business entity; unauthorized assignment of Contractor's rights or duties under the Contract; or any material breach of the Contract requirements.

- A. **Notice of Default and Opportunity to Cure.** Upon Town's declaration that Contractor is in default due to a material breach of the Contract Documents, if Town determines that the default is curable, Town will afford Contractor the opportunity to cure the default within ten days of Town's notice of default, or within a period of time reasonably necessary for such cure, including a shorter period of time if applicable.
- B. **Termination.** If Contractor fails to cure the default or fails to expediently take steps reasonably calculated to cure the default within the time period specified in the notice of default, Town may issue written notice to Contractor and its performance bond surety of Town's termination of the Contract for default.
- C. **Waiver.** Time being of the essence in the performance of the Work, if Contractor's surety fails to arrange for completion of the Work in accordance with the Performance Bond within seven calendar days from the date of the notice of termination pursuant to paragraph (C), Town may immediately make arrangements for the completion of the Work through use of its own forces, by hiring a replacement contractor, or by any other means that Town determines advisable under the circumstances. Contractor and its surety will be jointly and severally liable for any additional cost incurred by Town to complete the Work following termination, where "additional cost" means all cost in excess of the cost Town would have incurred if Contractor had timely completed Work without the default and termination. In addition, Town will have the right to immediate possession and use of any materials, supplies, and equipment procured for the Project and located at the Project site or any Worksite on Town property for the purposes of completing the remaining Work.
- D. **Compensation.** Within 30 days of receipt of updated as-builts, all warranties, manuals, instructions, or other required documents for Work installed to date, and delivery to Town of all equipment and materials for the Project for which Contractor has already been compensated, Contractor will be compensated for the Work satisfactorily performed in compliance with the Contract Documents up to the effective date of the termination pursuant to the terms of Article 8, Payment, subject to Town's rights to withhold or deduct sums from payment otherwise due pursuant to Section 8.3, and excluding any costs Contractor incurs as a result of the termination,

including any cancellation or restocking charges or fees due to third parties. If Contractor disputes the amount of compensation determined by Town, its sole recourse is to comply with the Claim Procedures in Article 12, by submitting a Claim no later than 30 days following notice from Town of the total compensation to be paid by Town.

- E. ***Wrongful Termination.*** If Contractor disputes the termination, its sole recourse is to comply with the Claim procedures in Article 12. If a court of competent jurisdiction or an arbitrator later determines that the termination for default was wrongful, the termination will be deemed to be a termination for convenience, and Contractor's damages will be strictly limited to the compensation provided for termination for convenience under Section 13.4, below. Contractor waives any claim for any other damages for wrongful termination including special or consequential damages, lost opportunity costs, or lost profits, and any award of damages is subject to Section 12.8, Burden of Proof and Limitations.

13.4 Termination for Convenience. Town reserves the right, acting in its sole discretion, to terminate all or part of the Contract for convenience upon written notice to Contractor.

- A. ***Compensation to Contractor.*** In the event of Town's termination for convenience, Contractor waives any claim for damages, including for loss of anticipated profits from the Project. The following will constitute full and fair compensation to Contractor, and Contractor will not be entitled to any additional claim or compensation:
1. ***Completed Work.*** The value of its Work satisfactorily performed as of the date notice of termination is received, based on Contractor's schedule of values and unpaid costs for items delivered to the Project site that were fabricated for incorporation in the Work;
 2. ***Demobilization.*** Demobilization costs specified in the schedule of values, or if demobilization costs were not provided in a schedule of values pursuant to Section 8.1, then based on actual, reasonable, and fully documented demobilization costs; and
 3. ***Termination Markup.*** Five percent of the total value of the Work performed as of the date of notice of termination, including reasonable, actual, and documented costs to comply with the direction in the notice of termination for convenience, and demobilization costs, which is deemed to cover all overhead and profit to date.
- B. ***Disputes.*** If Contractor disputes the amount of compensation determined by Town pursuant to paragraph (A), above, its sole recourse is to comply with the Claim procedures in Article 12, by submitting a Claim no later than 30 days following notice from Town of total compensation to be paid by Town.

13.5 Actions Upon Termination for Default or Convenience. The following provisions apply to any termination under this Article, whether for default or convenience, and whether in whole or in part.

- A. ***General.*** Upon termination, Town may immediately enter upon and take possession of the Project and the Work and all tools, equipment, appliances, materials, and supplies procured or fabricated for the Project. Contractor will transfer title to and deliver all completed Work and all Work in progress to Town.
- B. ***Submittals.*** Unless otherwise specified in the notice of termination, Contractor must immediately submit to Town all designs, drawings, as-built drawings, Project records, contracts with vendors and Subcontractors,

manufacturer warranties, manuals, and other such submittals or Work-related documents required under the terms of the Contract Documents, including incomplete documents or drafts.

- C. **Close Out Requirements.** Except as otherwise specified in the notice of termination, Contractor must comply with all of the following:
1. Immediately stop the Work, except for any Work that must be completed pursuant to the notice of termination and comply with Town's instructions for cessation of labor and securing the Project and any other Worksite(s).
 2. Comply with Town's instructions to protect the completed Work and materials, using best efforts to minimize further costs.
 3. Contractor must not place further orders or enter into new subcontracts for materials, equipment, services or facilities, except as may be necessary to complete any portion of the Work that is not terminated.
 4. As directed in the notice, Contractor must assign to Town or cancel existing subcontracts that relate to performance of the terminated Work, subject to any prior rights, if any, of the surety for Contractor's performance bond, and settle all outstanding liabilities and claims, subject to Town's approval.
 5. As directed in the notice, Contractor must use its best efforts to sell any materials, supplies, or equipment intended solely for the terminated Work in a manner and at market rate prices acceptable to Town.
- D. **Payment Upon Termination.** Upon completion of all termination obligations, as specified herein and in the notice of termination, Contractor will submit its request for Final Payment, including any amounts due following termination pursuant to this Article 13. Payment will be made in accordance with the provisions of Article 8, based on the portion of the Work satisfactorily completed, including the close out requirements, and consistent with the previously submitted schedule of values and unit pricing, including demobilization costs. Adjustments to Final Payment may include deductions for the cost of materials, supplies, or equipment retained by Contractor; payments received for sale of any such materials, supplies, or equipment, less re-stocking fees charged; and as otherwise specified in Section 8.3, Adjustment of Payment Application.
- E. **Continuing Obligations.** Regardless of any Contract termination, Contractor's obligations for portions of the Work already performed will continue and the provisions of the Contract Documents will remain in effect as to any claim, indemnity obligation, warranties, guarantees, submittals of as-built drawings, instructions, or manuals, record maintenance, or other such rights and obligations arising prior to the termination date.

Article 14 - Miscellaneous Provisions

14.1 Assignment of Unfair Business Practice Claims. Under Public Contract Code § 7103.5, Contractor and its Subcontractors agree to assign to Town all rights, title, and interest in and to all causes of action it may have under section 4 of the Clayton Act (15 U.S.C. § 15) or under the Cartwright Act (Chapter 2 (commencing with § 16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the Contract or any subcontract. This assignment will be effective at the time Town tenders Final Payment to Contractor, without further acknowledgement by the parties.

14.2 Provisions Deemed Inserted. Every provision of law required to be inserted in the Contract Documents is deemed to be inserted, and the Contract Documents will be construed and enforced as though such provision has been

included. If it is discovered that through mistake or otherwise that any required provision was not inserted, or not correctly inserted, the Contract Documents will be deemed amended accordingly.

14.3 Waiver. Town’s waiver of a breach, failure of any condition, or any right or remedy contained in or granted by the provisions of the Contract Documents will not be effective unless it is in writing and signed by Town. Town’s waiver of any breach, failure, right, or remedy will not be deemed a waiver of any other breach, failure, right, or remedy, whether or not similar, nor will any waiver constitute a continuing waiver unless specified in writing by Town.

14.4 Titles, Headings, and Groupings. The titles and headings used and the groupings of provisions in the Contract Documents are for convenience only and may not be used in the construction or interpretation of the Contract Documents or relied upon for any other purpose.

14.5 Statutory and Regulatory References. With respect to any amendments to any statutes or regulations referenced in these Contract Documents, the reference is deemed to be the version in effect on the date that bids were due.

14.6 Survival. The provisions that survive termination or expiration of this Contract include Contract Section 11, Notice, and subsections 12.1, 12.2, 12.3, 12.4, 12.5, and 12.6 of Section 12, General Provisions; and the following provisions in these General Conditions: Section 2.2(J), Contractor’s Records, Section 2.3(C), Termination, Section 3.7, Ownership, Section 4.2, Indemnity, Article 12, Dispute Resolution, and Section 11.2, Warranty.

6. Special Conditions

Pre-Construction Conference. Town will designate a date and time for a pre-construction conference with Contractor following Contract execution. Project administration procedures and coordination between Town and Contractor will be discussed, and Contractor must present Town with the following information or documents at the meeting for Town’s review and acceptance before the Work commences:

1. Name, 24-hour contact information, and qualifications of the proposed on-site superintendent;
2. List of all key Project personnel and their complete contact information, including email addresses and telephone numbers during regular hours and after hours;
3. Staging plans that identify the sequence of the Work, including any phases and alternative sequences or phases, with the goal of minimizing the impacts on residents, businesses and other operations in the Project vicinity;
4. If required, traffic control plans associated with the staging plans that are signed and stamped by a licensed traffic engineer;
5. Water Pollution Control Plan;
6. Draft baseline schedule for the Work as required under Section 5.2 of the General Conditions, to be finalized within ten days after Town issues the Notice to Proceed;
7. 2 week public notification letter;
8. 2 day (48 hour) notice letter;
9. “No Parking” Sign;

10. Breakdown of lump sum bid items, to be used for determining the value of Work completed for future progress payments to Contractor;
11. Schedule with list of Project submittals that require Town review, and list of the proposed material suppliers;
12. Plan for coordination with affected utility owner(s) and compliance with any related permit requirements;
13. Videotape and photographs recording the conditions throughout the pre-construction Project site, showing the existing improvements and current condition of the curbs, gutters, sidewalks, signs, landscaping, streetlights, structures near the Project such as building faces, canopies, shades and fences, and any other features within the Project area limits;
14. Any other documents specified in the Special Conditions or Notice of Potential Award.

School Zone Restrictions. To minimize impacts to daily school operations, the Contractor shall complete all pavement work adjacent to schools during the summer break, from **June 8 to August 11, 2026**.

The following segments are identified and designated as school zone priority and shall be **constructed at the beginning of the project**:

1. Brooklyn Avenue
2. New York Avenue
3. Roberts Road
4. Fisher Avenue
5. Nino Avenue

All paving activities including base repair, milling, paving, and striping must be completed within the summer break. Work outside of this window will not be permitted unless approved in writing by the Engineer. Hours of work during this period shall be Monday through Friday, 8:00 am to 5:00 pm.

Any costs associated with the restrictions above shall be deemed included in the bid price. No additional compensation and no extension of time will be granted.

Close Out Requirements. Contractor's close out requirements include the following, if applicable:

1. Contractor must replace, with thermoplastic, any existing striping within and adjacent to the Project site that is damaged during the Work. Partially damaged striping must be replaced in its entirety.
2. Contractor must replace any survey monuments that are damaged or removed during the Work, with a Record of Survey filed by a licensed land surveyor as required by California law.
3. Before removing any traffic control or street signs on the Project site, Contractor must take photographs showing their original locations. Upon completion of each phase of construction, Contractor must

temporarily reset the signs at those locations. Contractor must then replace the signs permanently upon completion of the Work and the cost of their removal and replacement must be included in the Bid Proposal.

4. Contractor must maintain any rural mail boxes on the Project site and relocate them to their permanent locations as soon as possible in the course of the Work, to the satisfaction of the affected property owners and the postal service.

END OF SPECIAL CONDITIONS

7. General Constructions Requirements

7.1. General Constructions Requirements

Measurement and Payment

Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all of the work involved in compliance with the Plans, Specifications, and “General Construction Requirements” of the contract documents, shall be deemed included in the price paid for other contract items and no additional compensation shall be allowed therefore.

Project Plans

The attached “Locations of Work” found in **Attachment A** shall be considered as the Plans.

Mobilization

Mobilization shall not be separately paid for but shall be considered as included in the payments for other items of work. This shall include full compensation for furnishing all labor and materials, including tools, equipment and incidentals, and for performing all of the work involved in placing, removing, storing, maintaining, moving to new locations, replacing and disposing of equipment and materials as specified in the Standard Specifications, these Contract Documents and as directed by the Engineer.

Order of Work

Order of Work shall conform to the provisions in Section 5-1.02, “Contract Components,” of the Standard Specifications and these Contract Documents.

At least five (5) working days before any work is started, the Contractor shall furnish to the Engineer a written schedule for the work, listing the dates on which individual areas are to be subject to project related work and the extent of impact caused by the work. Additionally, the Contractor shall submit any request for approval for special traffic consideration including but not limited to lane closures, etc. The Contractor shall thenceforth adhere diligently to said written schedule in the prosecution of the work.

Work for this project needs to be coordinated with the 2026 Annual Curb, Gutter, and Sidewalk Maintenance project. Resurfacing work will generally follow the concrete work but certain work may need to occur around the same time. The Inspector shall be the main contact for the coordination of the work.

The Contractor shall complete all work adjacent to schools during the summer break in accordance with Section 6, Special Conditions, School Zone Restrictions.

The street may not be available for work if scheduling is not requested by the Contractor and approved by the Engineer (5) working days prior to the desired workday.

Cooperation

Attention is directed to Section 5-1.36C, "Nonhighway Facilities," of the Standard Specifications.

It is the Contractor's responsibility to work with utility companies to coordinate the removal, relocation, raising to grade, installation of the new facilities, or any other utility work as shown on the plans or indicated in the specifications with the appropriate utility company. The Contractor shall provide advance notification and shall allow sufficient time and work space for the utility company to complete the work necessary.

If in the opinion of the Engineer, the Contractor's operations are delayed by reason of utility facilities not being removed or relocated, the Contractor will be entitled to an extension of time only. The Contractor shall be entitled to no other compensation for such delay.

Progress Schedule

The Contractor shall submit a project progress schedule for approval by the Engineer within eight (8) Working Days, not including Saturdays, Sundays, and legal holidays from the date of the Notice of the Award of Contract or 3 days before the pre-construction conference, whichever comes first. Failure to submit an acceptable progress schedule shall result in rejection of the Contractor's proposal. The progress schedule shall be in the form specified below unless otherwise specified in the Special Provision or approved by the Engineer. Updated progress schedules shall be provided by the Engineer monthly with the estimates of work required in Section 9-1.16, "Progress Payments," of the Standard Specifications. No partial payments will be made for any work until an updated schedule has been submitted and approved by the Engineer. Updated schedules shall incorporate all current schedule information, including actual progress, approved time adjustments, and proposed changes in sequence and logic.

The Contractor must furnish a computerized schedule prepared by the critical path method (CPM) which shows the order in which the Contractor proposes to carry out the work; the sequence and interdependence of construction activities; all salient features of the work (including procurement of materials and equipment); the dates on which the Contractor will start the salient features of the work; and the scheduled dates for completing the said salient features. The construction schedule shall include:

- A. Time for submittals and reviews;
- B. Time for fabrication and delivery of manufactured products for the work; and
- C. The interdependence of procurement and construction activities.

The construction schedule shall:

- A. Be a timescaled network diagram referenced to specific calendar dates;
- B. Include time for the Engineer to review submittals or inspect the work; and
- C. Identify the activities which constitute the controlling operations or critical path.

The construction schedule shall not contain multiple critical paths.

Scheduling of change order work is the responsibility of the Contractor. The Contractor shall revise the schedule to incorporate all activities involved in completing the change order work, and submit a new schedule to the Engineer for review.

Delays or changes to non-critical activities will not be considered for a contract time extension. Non-critical activities are those activities which when delayed, do not affect the contract completion time.

The project schedules submitted shall be consistent in all respects with the time and order of work requirements of the contract. The Engineer, at his or her sole discretion, retains the right to reject any and all construction schedules submitted by the Contractor, including when the Engineer determines that the Contractor has too many items on the Critical Path, or the logic of the schedule is in error, or if the Engineer determines salient items of work are missing from the schedule.

The Contractor shall complete all work adjacent to schools during the summer break in accordance with Section 6, Special Conditions, School Zone Restrictions.

Subject to the above provisions, nothing herein shall preclude the Contractor from early completion of the contract.

The Contractor shall submit updated progress schedules to the Engineer as a condition of approval for the monthly progress payments and final acceptance.

Record Drawings

The Contractor shall keep and maintain on the job site, one record set of drawings. On these, the Contractor shall mark all project conditions, locations, configurations, and any other changes or deviations which may vary from the details represented on the original contract documents, including buried or concealed construction and utility features which are revealed during the course of construction. Final payment will not be approved until the Contractor prepared record drawings have been delivered to the Engineer.

General Measurement and Payment Requirements

The Contractor shall submit in all field quantities completed to date for payment with each monthly pay estimate. The Contractor shall provide, in writing, who from their team will be responsible for field measuring quantities with the Town's representative. Upon completion of a contract bid item, the Contractor's representative shall field measure the final quantities with the Town's representative. This agreed upon amount will be considered final and no re-measuring of these field quantities will be allowed without the approval of the Engineer. All supporting documentation required for payment of an item, shall be submitted by the Contractor within two pay periods following the work. Documentation submitted more than two pay periods after the work was completed will not be paid and the cost of this work shall be borne by the Contractor.

Truck Routes

Per the Town Ordinance Section 15.30.410, the following streets and highways or portions thereof within the Town limits are designated Truck Routes and are authorized for use by operators of trucks and other vehicles, which exceed a maximum gross weight of ten thousand (10,000) pounds:

- Highway 17
- Los Gatos-Saratoga Road (Highway 9)
- Los Gatos-Almaden Road
- Los Gatos Boulevard
- Blossom Hill Road
- Winchester Boulevard

- Lark Avenue

Other Town streets are unauthorized for truck routes unless otherwise approved by the Engineer.

Hours of Work

Unless otherwise approved in writing by the Engineer or specified in these Contract Documents, the hours of work for this project are Monday through Friday, 8:00 AM to 5:00 PM.

The Contractor shall complete all work adjacent to schools during the summer break in accordance with Section 6, Special Conditions, School Zone Restrictions.

The work hours will be strictly enforced. The Engineer has full authority to implement the working hours and completely shut down the construction operations outside the hours of work specified. Should the provisions of this section not be met, liquidated damages of One Thousand Dollars (\$1,000.00) for every 60-minute time period (or portion thereof) beyond the hours of work allowable shall be withheld from moneys due to the Contractor.

24-Hour Contact Number

The Contractor shall assign a project superintendent who has the complete authority to make decisions on behalf of the Contractor. The project superintendent shall be on the job at all times during construction and shall be available and on call 24 hours a day for the duration of the project. The Contractor shall provide to the Engineer and to the Los Gatos-Monte Sereno Police Department a 24-hour contact number for the project superintendent. This number shall not direct calls to a recorder or other message taking service.

Advance Public Notification

Two weeks prior to beginning any work in an area, the Contractor shall deliver written notice to all adjoining residents and businesses, tenants and other applicable parties listed below and all other properties where their only ingress/egress is through the project's work area. Individual or separate notices shall be given for general construction activity in an area as well as specific activities (i.e. rubber chip seal, rubber cape seal, slurry seal, micro surfacing), which will, in any way, inconvenience the resident/property owner/tenant or affect their operations or access to their properties. Such notices shall include the expected date for start of construction, a general description of the construction activity to take place, expected duration of the activity, and the name, address, and the contact number of the Contractor's superintendent. The Contractor shall provide accurate information regarding the construction schedule and activities to be incorporated into the "two-week" notification. The Contractor shall make every effort to coordinate work with individual residents and businesses whose access will be disrupted in order to minimize the disruption and impacts on the resident or business.

For rubberized cape seal work, the Contractor shall provide and hand-deliver two (2), "two-day" notices. The first notice shall be distributed two working days prior to the rubberized chip seal placement. The second notice shall be distributed two days prior to the application of the slurry seal. The "two-day" notices shall be delivered to all adjoining residents and businesses, tenants, and other applicable parties listed below and any other properties whose sole ingress/egress is through the project's work area.

For all other work, the Contractor shall provide and hand-deliver a "two-day" notice. The notice shall be distributed two working days prior to the work beginning. The "two-day" notice shall be delivered to all adjoining residents and business, tenants, and other applicable parties listed below and any other properties who sole ingress/egress is through the project's work area.

Copies of all notices shall be provided to the Engineer for approval five (5) working days prior to the desired distribution date.

Should the Contractor's schedule change and/or differ in any capacity from the schedule initially mentioned in the notification to the resident/property owner/tenant or from the updates to the Town website, the Contractor shall re-notify all applicable parties (residents/property owner/tenant and/or businesses mentioned below) five (5) working days prior to the beginning of any work on that street.

The Contractor shall contact and coordinate the work with the following parties throughout the project. The "two-week" and "two-day" notification shall also be given to the following parties prior to beginning any work:

Santa Clara Valley Transportation Agency--(408) 952-4106

West Valley Collection and Recycling--(408) 283-8500

U.S. Postal Service--Post Master--(408) 395-7526

Los Gatos/Monte Sereno Police Department--(408) 354-8600

Santa Clara County Fire Department--(408) 378-4010

The Contractor shall also give written notice to residents/businesses for any driveway closures or anticipated service disruptions. The Contractor shall coordinate all disruptions with the appropriate utility, property owner, resident, business and the Town. Notice shall be given in advance and specify the duration of the disruption of any utility, and the temporary closure of access to any driveway. Such notice will comply with the requirements for closure of driveway access as specified under Special Provision Section 10-2, "Traffic Control Requirements."

Lack of proper advance notification and coordination shall result in the work being shut down. All costs associated with the stoppage of work shall be borne by the Contractor.

Line and Grade

The Contractor shall layout the project by providing all stakes and marks needed to establish the lines and grades required for completion of the work specified on the Plans and in these Contract Documents to the satisfaction of the Engineer.

Meetings

Prior to commencement of any work on the project, a pre-construction conference will be scheduled by the Town and held at the Town's Engineering Building or hosted via virtual meeting for the purpose of review and discussion of the project schedule and construction procedures. The Contractor's project manager and/or project superintendent and representatives from all listed subcontractors shall be required to attend the pre-construction conference. The Contractor shall prepare and submit at the pre-construction meeting the proposed project schedule, water pollution control plan, traffic control plan, public notification letter, and other submittals as specified under Special Conditions.

The Contractor shall also schedule and conduct weekly field meetings at locations to be determined by the Town. The meetings shall be held at the same time and place each week and shall include all subcontractors working on the project and discussions of scheduled work on the project during the week of the meeting. The Contractor shall notify the Engineer of the time, date, and location of these meetings 72 hours in advance of the first meeting. Detailed schedules for the following two weeks shall be submitted to the Engineer at each weekly meeting.

Waste Haulers and Recycling Operations

The Contractor shall not impair or impede waste hauler and recycling operations scheduled to be conducted within the project area. It is the Contractor's responsibility to determine which waste hauler and recycling operators are scheduled to operate within the project area, and to develop a project schedule that will not impair or impede the waste hauler or recycling operations.

Project Appearance and Street Sweeping

The Contractor shall maintain a clean work site. Debris developed during construction shall be disposed concurrently with its generation. Stockpiling of debris or construction materials shall not be allowed unless otherwise approved by the Engineer.

The Town prohibits the use of any public property or public right-of-way locations as construction staging points, unless specifically approved by the Engineer.

Right-of-Way

The Contractor shall operate within the public right-of-way only.

Work in Private Property

The Contractor shall secure right-of-entry agreements with each private property owners before any work in private properties. The language for the right-of-entry agreement must be approved by the Town.

Materials Testing and Inspections

The Contractor shall coordinate with the Town to schedule materials testing and inspections for soil compaction and for other operations as instructed by the Engineer. The Contractor shall notify the Engineer, at minimum 72 hours in advance, of when compaction testing, inspections, and materials sampling need to be occur.

Staging/Disposal Areas

The Contractor shall survey the area for construction staging. Staging areas shall not be located in a residential area.

The following requirements shall apply to the contractor's staging area:

- No stockpiles or staging area will be allowed in the right-of-way or on undeveloped lots unless specifically approved by the Engineer
- The staging area will be included in the Contractor's SWPPP
- The staging area will not be located in an environmentally or culturally sensitive area and/or impact water resources (rivers, streams, bays, inlets, lakes, drainage sloughs).
- The staging area will not be located in a regulatory floodway or within the base floodplain (100-year).
- The staging area will not affect access to properties or roadways.

The Contractor shall obtain the approval of the Engineer before staging equipment or storing materials in the public right-of-way or on Town property. In addition, the Contractor shall provide proof of an agreement when using private property for staging, if requested by the Engineer.

All debris shall be hauled off and disposed of the same working day in which the material was generated.

Personal vehicles of the Contractor's employees shall not be parked in the neighborhood or on the traveled way. When entering or leaving roadways carrying public traffic, the Contractor's equipment, whether empty or loaded, shall in all cases yield to public traffic and shall travel in the normal direction of travel.

Dust Control

The following requirements shall be applicable to this contract in lieu of the requirements of Section 18, "Dust Palliatives," of the Standard Specifications:

- A. The Contractor shall provide an acceptable plan for preventing the generation of dust due to the Contractor's operations in the construction zones, along the haul routes, or equipment parking areas. This plan may consist of water sprinkling sweepers or an equivalent service. No separate payment will be made for dust control and all costs in connection therewith shall be included in the payment items to which the work is incidental.
- B. In the event the control of dust is not satisfactory to the Owner, the Owner shall take such measures as may be necessary to ensure satisfactory dust control and deduct the cost of such measures from any payments due to the Contractor.

Water for Construction

The costs of water as required for the construction and post-construction on this project, including dust control, shall be considered as included in the costs of items bid for applicable item of work and no separate payment will be made therefor. The Contractor shall conform to the requirements of the water company from which water is purchased. In no case shall the Contractor violate the Town's water conservation ordinance.

Sanitation

The Contractor shall provide for sanitary facilities for the use of the workers on the job. Such facilities shall be placed and maintained by the Contractor so as not to be a nuisance to the neighbors, nor offensive to the senses nor the community standards of decency. The Engineer shall be the sole judge of the adequacy of the facility, the placement, and the maintenance thereof. Upon notification by the Engineer of deficiencies in any of these areas, the Contractor shall make immediate corrections. Failure to take corrective action within 24 hours shall give the Engineer due cause to stop the work in the contract and to order the corrective work to be done on the sanitary facility and to charge all costs of such work against the monies due or to become due to the Contractor.

Water Pollution Control

Water pollution control work shall conform to the provisions in Section 13, "Water Pollution Control," of the Standard Specifications and these Contract Documents, with the exception of payment. Payment shall be covered under "Measurement and Payment" under these Technical Specifications.

The Contractor shall be responsible for ensuring that all work conforms to the "Best Management Practices for the Construction Industry" found in the Storm Water Pollution Prevention Plan (SWPPP), the "Blueprint for a Clean Bay" handout found in **Attachment D** and the Town Code found in **Attachment E**.

The Contractor shall comply with the requirements of the State Water Resource Control Board (SWRCB) National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharge Associated with Construction and Land Disturbance Activities.

The Contractor shall not violate any discharge prohibition contained in the California Regional Water Quality Control Board San Francisco Bay Basin Water Quality Control Plan ("Basin Plan").

7.2. Traffic Control Requirements

Measurement and Payment

Full compensation for preparing traffic control plans, temporary pavement delineation, providing construction, changeable message and detour signs, and for furnishing all labor, materials, tools, equipment, and incidentals, and for

doing all of the work involved in compliance with the Plans, Specifications, and “Traffic Control Requirements” of the Contract Documents, including any additional changeable message signs, shall be included and paid for in the appropriate bid item price.

Bid Item #1	Traffic Control	L.S.
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General

Traffic control shall conform to the provisions of Section 12 "Temporary Traffic Control" of the Standard Specifications, Part 6, "Temporary Traffic Control," of the California Manual on Uniform Traffic Control Devices (CA MUTCD) with latest revisions, and these Technical Specifications. Nothing in these Technical Specifications shall be construed as relieving the Contractor from the responsibilities specified in Section 7-1.04, "Public Safety," of the Standard Specifications and these Contract Documents.

The traffic control plan shall be prepared in compliance with the Caltrans Standard Plans and/or CA MUTCD and shall be prepared by a certified traffic engineer or a qualified traffic control professional. The Contractor shall submit a scaled drawing with detailed information, such as lanes to be closed or narrowed, time and days of operation, transitions, cones and barricades, signs, arrow boards, pedestrian and bicycle provisions, etc. The traffic control plan should show length of transitions, cone spacing, sign spacing, etc. based on the posted speed limits or the posted construction zone speed limits. The traffic control plan shall also include a provision for the Contractor to contact and coordinate with the Valley Transportation Authority (VTA) if a bus stop is affected.

The Contractor shall maintain a safe workplace throughout the job including, but not limited to, providing all flaggers, safety equipment, flashing arrow boards, changeable message signs (minimum of two), traffic control devices; maintenance of barricades, safe pedestrian passages along sidewalks, maintenance of handicap access throughout the project site where applicable and maintenance of pavement within the limits of the roadway and driveways with a suitable traffic bearing surface.

The Contractor shall provide and maintain all necessary traffic control devices to ensure safe pedestrian and vehicular access through and around the job site. Warning signs shall be installed at locations in accordance with the CA MUTCD, Part 6, "Temporary Traffic Control." The Contractor shall fulfill the requirements of this section, 24 hours per day, seven days a week, including holidays, from the time the Notice to Proceed is issued until the project is formally accepted.

Should the Contractor fail to perform these duties, the Engineer, at the Engineer's sole discretion, may elect to have City, or contract forces, perform the duties, deducting the expenses incurred from any moneys that are due, or to become due, to the Contractor. By exercising this option, the Contractor is in no way relieved of the responsibility to perform these duties.

The Contractor shall provide a minimum of two competent and qualified flaggers dedicated solely to directing traffic if traffic lanes have been reduced to only one lane for two-way traffic, in and out of driveways and cross-streets and/or across the construction area as deemed to ensure safe traffic control during construction operations. Flaggers shall be equipped with all necessary tools to properly control the traffic.

Traffic Control/Management Plan

A traffic control plan shall be submitted by the Contractor to the Engineer a minimum of five (5) working days prior to any work commencing on the project. The traffic control plan shall be reviewed and accepted by the Engineer prior to any work commencing on the project. All traffic plans shall be prepared in accordance with the CA MUTCD, Part 6,

“Temporary Traffic Control,” Section 12, “Temporary Traffic Control,” of the Standard Specifications, and these Contract Documents.

No Parking Signs

Prior to the start of work which requires parking restriction, the Contractor shall request approval to post and maintain temporary “No Parking” signs on each street where the operations will take place. It shall be the Contractor's responsibility to post "No Parking" signs in the areas where the Contractor's work will require restricted parking. The Town will provide signs for the Contractor's use. To be enforceable, the signs must be posted not less than 72 hours prior to the start of the work at a maximum spacing of 60 feet. The signs must clearly show the date(s) and hours of the parking prohibition, as well as the date and time the signs were posted, and the project name and contractor's phone number. If the work is not performed during the timeframe indicated on the “No Parking” signs, the work will be rescheduled with at least five (5) working days advance notice. The Contractor shall perform all re-posting of “No Parking” signs and re-notification of businesses, tenants, and residents as a result of his failure to meet the posted schedule. Any delays caused by failure of the Contractor to adhere to the approved schedule will be at the Contractor's sole expense. No additional compensation will be allowed for costs resulting from said delays.

The Contractor shall remove the “No Parking” signs immediately when they are no longer needed for use in the respective area of the project. The Contractor shall notify the Los Gatos/Monte Sereno Police Department directly after posting and immediately upon removal of the said signs at (408) 354-8600.

During the morning of each scheduled workday, the Contractor shall be responsible for calling the Los Gatos/Monte Sereno Police Department Police Dispatch to tow cars, if necessary, as approved by the Engineer. The Contractor shall have available for the police responding to the call photo documentation of the “No Parking” signs being posted if the signs were removed or vandalized the previous night.

Detours, Temporary Striping, and Barriers

Any approved detours or barriers, signing and striping necessary to complete the construction of the project shall be provided, installed, maintained, and removed by the Contractor at his expense. Temporary striping shall be self-sticking traffic marking tape, vinyl or otherwise, developed for such use, and shall be used for temporary striping as required, unless shown otherwise on the plans or specified in the Technical Specifications. No painted temporary striping or markings will be allowed unless the temporary markings will be entirely covered by the permanent markings.

Notify the Los Gatos/Monte Sereno Police Department daily at (408) 354-8600 of street or lane closures or detours within the roadway prior to setting up and upon removal of traffic control devices.

Additional Construction Area Signs and Controls

In addition to the requirements of the CA MUTCD, the following traffic controls will be required as specified by the Engineer. These additional requirements in no way relieve the Contractor from his obligation to comply with the standards set forth in that manual.

- "Road Work Ahead" (Type C-23(CA)) signs shall be posted in advance of the first major cross street before the start of the work zone to allow traffic to avoid the work zone prior to entering the zone. The signs shall also be posted at the approaches to the project site.
- "End Road Work" (Type G20-2) signs shall be placed at all public road exits from the project site.
- The Contractor shall provide, install and maintain a minimum of four (4) lighted barricades for each individual construction site for concrete improvements (i.e. for curb and gutter removal & replacement and for accessibility ramp installation).

- Changeable message signs will be used starting one (1) week prior to construction beginning and will be maintained in place until construction impacts to the public no longer exist as determined by the Engineer.
- “Bikes May Use Full Lane” (R4-11)—modified for temporary construction sign

The Contractor shall be responsible for locating existing poles on which to mount these signs or shall provide temporary stands or poles on which to place the required signs. The Engineer shall approve the method of attachment to existing poles prior to sign installation. No sign shall be mounted on decorative street light poles unless the Contractor can clearly show that the mounting method will not damage the finish on the poles.

Upon completion of the work, the signs and posts shall be removed and disposed of outside the public right of way in conformance with the provisions in the Standard Specifications.

Maintenance of Pedestrian Access and Circulation

Safe pedestrian access and circulation that is fully wheelchair accessible shall be maintained by the Contractor through or around the project area. All walkways, pedestrian crossings, ramps and other pedestrian facilities removed or blocked by the Contractor’s operations shall be replaced with temporary facilities unless otherwise approved by the Engineer.

Pedestrian access at each individual project site may be diverted for a maximum of five (5) calendar days with approved traffic control plan. Drop off from existing improvements to excavated areas shall be temporarily ramped. Ramps shall be maintained at 12:1 or flatter with compacted sub-grade or base rock material until final improvements are installed.

Lane Closures

Requests for lane closures shall be made a minimum of five working days prior to the proposed closure. Once the lane closure has been approved by the Town, the Contractor shall post a minimum of five (5) working days in advance of the proposed lane closure a changeable message sign at the limits of each closure or as specified by the Engineer. These changeable message signs shall also be used on the day of the actual closure. The changeable message signs shall indicate the days and hours of the proposed lane closure and the type of work being done during that lane closure.

Flashing arrow signs shall be used for all lane closures. The Contractor shall check with the Engineer to confirm any lane closure restrictions that may be in effect before closing any lanes.

The Contractor shall leave the streets open to traffic until just prior to starting the work, and will provide all barricades, signs and traffic control measures necessary to protect the work.

No work that interferes with public traffic shall be performed outside of the working hours, except as otherwise approved by the Engineer. All traffic lanes shall be open to traffic outside of the working hours.

A minimum of one paved, or surfaced traffic lanes and one paved bicycle lane, not less than fifteen (15) feet wide (10 foot wide for the traveled vehicle lane and 5 feet wide for the bicycle lane), shall be open for use by public traffic in each direction of travel. Traffic may not be routed over unpaved roadways unless authorized by the Engineer.

In addition, the full width of the traveled way on each street shall be open for public use on Saturdays and Sundays (except for those streets approved by the Engineer for weekend work), on designated legal holidays, and when construction operations are not actively in progress. Designated legal holidays are: January 1, the third Monday in January, the third Monday in February, June 19, the last Monday in May, July 4, the first Monday in September, the fourth Thursday of November, and December 25. When a designated holiday falls on a Saturday, the preceding Friday shall be treated as a legal holiday. When a designated holiday falls on a Sunday, the following Monday shall be treated as a legal holiday.

Deviations from the requirements of this section concerning hours of work, which do not change the cost of the work, may be permitted upon the written request of the Contractor, if in the opinion of the Engineer, the general public will be better served and the work expedited. Such deviations shall not be implemented until the Engineer has provided the Contractor with written approval to do so. All other modifications will be made by contract change order.

The Contractor shall pay the Town liquidated damages in the amount of \$1,000 per hour (or part of an hour) for traffic control that is set-up before the designated and approved hours of work. Liquidated damages for failure to open streets by the required time shall be \$1,000.00 per hour.

Traffic Control System for Lane Closure

A traffic control system shall consist of closing traffic lanes in accordance with the details shown on Caltrans Standard Plans T10, T10A, T11, T11A, T12, T13, T13A, and T13B as shown in **Attachment B**, the provisions of Section 12, "Temporary Traffic Control," of the Standard Specifications, and these Contract Documents.

The provisions in this section will not relieve the Contractor from the responsibility to provide additional devices or take measures as may be necessary to comply with the provisions of Section 7-1.04, "Public Safety," of the Standard Specifications.

Each vehicle used to place, maintain and remove components of a traffic control system on multilane roads shall be equipped with a Type II flashing arrow sign which shall be in operation when the vehicle is being used for placing, maintaining, or removing the components. Vehicles equipped with a Type II flashing arrow sign not involved in placing, maintaining, or removing the components when operated within a stationary type lane closure shall only display the caution display mode. The sign shall be controllable by the operator of the vehicle while the vehicle is in motion.

If any component of the traffic control system is displaced, or ceases to operate or function as specified from any cause, during the progress of the work, the Contractor shall immediately repair the component to its original condition or replace the component, and shall restore the component to its original location.

When lane closures are made for work periods only, at the end of each work period, all components of the traffic control system, except portable delineators placed along open trenches or excavations adjacent to the traveled way, shall be removed from the traveled way and shoulder. If the Contractor so elects, the components may be stored at selected central locations, approved by the Engineer.

Temporary Pavement Delineation

Temporary pavement delineation shall comply with these Technical Specifications and with Section 12-3, "Temporary Traffic Control Devices," of the Standard Specifications, CA MUTCD, and these Contract Documents.

Property Access Requirements

The Contractor shall maintain property access to all residents and businesses at all times unless otherwise approved by the Engineer. Upon approval by the Engineer, access to certain properties may be temporarily closed if all of the following conditions can be met:

- A. No options exist to maintain property access and complete the project.
- B. The Contractor has discussed the closure with the resident or business owner in person.
- C. Residents or business owners has been notified, in writing, at least five (5) calendar days in advance of the time and length of closure

- D. Resident or business owners have been reminded of the closure, in writing, at least two (2) working days prior to the actual closure.
- E. The Contractor has provided the resident or business with a contractor name and number to call with questions regarding the closure.
- F. Closure will last no longer than three (3) working days

Signalized Intersections

The Contractor shall be responsible for contacting and coordinating with the Town’s signal maintenance contractor for any work at signalized intersections. No additional working days will be given due to the Contractor for not scheduling the work with the Town’s signal maintenance contractor prior to the start of work.

8. Technical Specifications

8.1. TREE TRIMMING

Measurement and Payment

Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all of the work in compliance with the Plans, Specifications, and “Tree Trimming” of the Technical Specifications, shall be included and paid for in the appropriate bid item price.

Bid Item #2	Tree Trimming	L.S.
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Tree Protection

The Contractor shall comply with the Town Ordinance Chapter 29, Article 1, Division 2, “Tree Protection.” The Contractor shall provide protective tree fencing per the Town Ordinance Sec. 29.10.1005, “Protection of Trees During Construction.” The Engineer and Town Arborist shall be notified of any damages that occurs to a protected tree during construction.

Tree Trimming

If existing trees or shrubs, including median island planting, and private trees, encroach into the public right-of-way and threaten to obstruct the Contractor’s operation, the Contractor shall request permission to trim existing trees or shrubs, at least five (5) working days prior to the date of scheduled tree trimming. All tree and shrub trimming must have prior approval of the Engineer and shall be performed by a Contractor possessing a C-27 or a D-49 license. All costs for tree or shrub trimming and proper disposal shall be paid by the Contractor.

Tree clearance must be a minimum of 11 feet from the lip of gutter.

A special notice pertaining to the tree trimming shall be delivered to the adjacent home or business at least two working days before the tree is trimmed. The notice shall be reviewed and approved by the Engineer before delivery.

Landscaping Obstruction

In the event that there are landscaping obstructions such as ivy, lawn, juniper branches, grass, or other encroaching vegetation, the Contractor shall trim or prune such obstruction only to the extent necessary to conduct the installation of improvements in the public right-of-way. Landscaping or other improvements outside the limits of work shall be protected by the Contractor and shall be replaced in kind if the Contractor’s operations damage the existing

improvements. If the Contractor fails to comply in providing the necessary replacement as defined, the Engineer may elect to have the Town or contract forces perform all these duties deducting all the expenses incurred from any moneys that are due, or to become due, to the Contractor. By exercising this option, the Contractor is in no way relieved of the responsibilities to perform these duties.

8.2. EXISTING FACILITIES

Measurement and Payment

Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all of the work in compliance with the Plans, Specifications, and "Existing Facilities" of the Technical Specifications, shall be included and paid for in the appropriate bid item price.

Bid Item #3	Adjust Sanitary Sewer Manhole to Grade	Ea.
Bid Item #4	Adjust Storm Manhole to Grade	Ea.
Bid Item #5	Adjust Survey Monument Cover to Grade	Ea.
Bid Item #6	Adjust Water Valve Cover to Grade (Revocable)	Ea.
Bid Item #7	Adjust Water Meter Box to Grade (Revocable)	Ea.
Bid Item #8	Adjust Gas Valve to Grade	Ea.
Bid Item #9	Adjust Sanitary Sewer Cleanout to Grade	Ea.
Bid Item #10	Adjust Vault to Grade	Ea.
Bid Item #11	Install New Monument Lid G5 Christy Box	Ea.
Bid Item #A1.1	Adjust Sanitary Sewer Manhole to Grade	Ea.
Bid Item #A1.2	Adjust Survey Monument Cover to Grade	Ea.
Bid Item #A1.3	Adjust Water Valve Cover to Grade (Revocable)	Ea.
Bid Item #A1.4	Install New Monument Lid G5 Christy Box	Ea.

General

Existing Facilities shall conform to Section 15, "Existing Facilities," of the Standard Specifications, the Plans, and these Contract Documents.

Protect Existing Facilities to Remain

The Contractor shall work around and protect all existing improvements to remain, including but not limited to existing utilities, monumentation, benchmarks, storm drainage facilities, utility vaults, traffic detector loops, home runs and

handholes, concrete and hot mix asphalt pavement, pavement markings, landscaping, irrigation facilities, and appurtenances that are within or adjacent to the construction areas.

The Contractor shall notify Underground Service Alert (USA) prior to beginning any work. Notification shall be in full compliance with USA. At the conclusion of the project, the Contractor must remove all USA markings from all paved and concrete surfaces throughout the job site without damaging said surfaces. The method of removing the USA markings is at the Contractor's discretion.

Existing utility lines are not shown on plans. The Contractor is responsible for locating and field verifying the locations of all existing utilities prior to all construction activities and protecting all facilities during construction. The Contractor shall protect existing electroliers when placing construction signs.

The Contractor shall immediately repair or remove and replace any item damaged or injured by his operations at his sole expense and to the satisfaction of the Engineer. The Contractor shall immediately notify the appropriate owner of the improvement or facility and the Engineer of any damage as a result of his operations to existing improvements or facilities. If the improvement belongs to a private residence and the property owner or occupant is not at home, such notification shall be attached to the front door of the property. Contractor must share an image of the notification attached to the door with the town. All underground facilities that are damaged by the Contractor during construction shall be restored by the Contractor within two (2) hours after the damage is done.

All existing improvements, including but not limited to, irrigation systems, brick work, stone work, concrete work, fences, mailboxes, turf and landscaping, on public right-of-way which are obstacles to forming operations may be removed as necessary for this type of work. The Contractor shall notify the adjacent property owner and the Engineer prior to removal of any existing improvements. After removing the forms, all the existing improvements shall be restored to their original condition at no additional cost to the Town. If the Contractor fails to comply in providing the necessary restoration work as defined, the Engineer may elect to have the Town or other contract forces perform all these duties, deducting all the expenses incurred from any moneys that are due, or to become due, to the Contractor. By exercising this option, the Contractor is in no way relieved of the responsibilities to perform these duties.

Adjust Facilities to Grade

All existing manholes, traffic signal boxes, handholes, utility valve covers, utility frames, utility valve boxes, water meter boxes, cable boxes, vault covers, and monuments within the project limit of work area shall be adjusted to grade in accordance with Section 15, "Existing Facilities," of the Standard Specifications, the Plans, and these Contract Documents. Where existing facilities to be adjusted are located in traffic areas, said facilities shall be modified to handle traffic loads and retrofitted with traffic covers. Exact locations of survey monuments, etc. shall be field verified by the Contractor at the start of construction and field verified by the Engineer prior to the start of work

The Town shall be notified seven (7) working days prior to adjusting any facilities to grade. All work shall be done without any interruption to services provided by the facility.

Frames and covers shall be removed, transported, and stored without damage. Any items damaged shall be replaced at the Contractor's expense. Pre-existing damage must be brought to the Engineer's attention prior to commencement of any work. All facilities shall be adjusted to grade within fourteen (14) working days after the final hot mix asphalt overlay has been placed on each street. The covers shall be raised by excavating the frame and cover in a neat concentric circle with a diameter not greater than necessary to loosen and adjust the frame with the cover and the concrete collar.

At the direction of the Engineer, the Contractor shall use quick set concrete for all collars. Class A concrete mix (590 pounds cement per cubic yard concrete) shall be used to fill the void to an elevation 1" to 1.5" below finish grade. After

three (3) days of concrete set, a tack coat of undiluted SS1h asphalt emulsion shall be applied to all concrete and vertical surfaces. The hot mix asphalt (HMA) surface course to be applied shall be 1/2", Type A, compacted to a minimum of 95 percent. Asphalt binder shall be PG 64-10. Any facilities that are adjusted to grade, but are not to the satisfaction of the Engineer, shall be removed and re-adjusted within four (4) working days of being notified to do so by the Engineer. All required hot mix asphalt, tack coat and concrete required for raising facilities to grade shall be paid for under this contract item.

Monument boxes in work areas shall be raised or adjusted to the new grade without disturbing the existing monument, or the Contractor shall be responsible for obtaining services of a registered Surveyor to tie out the existing monument, remark, and reset the monument following the raising of the box. The Contractor shall be responsible for filing the appropriate Corner Records as necessary for relocation of the monument and shall provide a copy of all recorded documentation to the Town prior to project acceptance.

New monument boxes, including frames and covers shall be installed to grade around those monuments that do not have existing boxes. Any new monument boxes, frames, and covers needed shall be provided by the Town. All covers shall be stable under traffic.

The Contractor shall clean all concrete, HMA debris, and tack oil off of utility covers caused by the Contractor's operation.

8.3. HOT MIX ASPHALT (HMA)

Measurement and Payment

Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work in compliance with the Plans, Specifications, and "Hot Mix Asphalt (HMA)" of the Technical Specifications, including but not limited to constructing HMA, complete in place, including surface preparation, tack coat, temporary transition, job mix formula preparation, shall be included and paid for in the appropriate bid item price.

Bid Item #12	2" Hot Mix Asphalt (HMA) Overlay	Ton
Bid Item #13	4" Hot Mix Asphalt (HMA) Overlay	Ton
Bid Item #14	Hot Mix Asphalt (HMA) Leveling Course	Ton
Bid Item #A1.5	Hot Mix Asphalt (HMA) Leveling Course	Ton

General

Hot mix asphalt shall conform to Section 39, "Hot Mix Asphalt," of the Standard Specifications, the Plans, and these Technical Specifications. This work includes producing and placing hot mix asphalt (HMA) using the modified Standard Process and placing Minor Hot Mix Asphalt using the Method Process as indicated herein.

Generally, the hot mix asphalt to be used will be as follows unless modified by the Engineer, compacted to a minimum of 95%:

Leveling Courses: HMA Type A, 3/8-inch maximum

Surface Courses, Dig Outs, and Speed Humps: HMA Type A, 1/2-inch maximum

The grade of asphalt binder mixed with aggregate for HMA Type A must be PG 64-10 and shall conform to Subsection 92-1.02(B), "Performance Grade Asphalt Binders," of the Standard Specifications.

Construction

The work shall consist of preparing the existing street surfaces prior to the commencement of paving. Such work shall include removing controlling nuisance water, sweeping, watering, and removing loose and broken hot mix asphalt pavement and foreign material as specified in the Standard Specifications and these Contract Documents, and as directed by the Engineer.

Asphalt leveling course shall be spread to produce a uniform smoothness. The leveling course shall be compacted with an 8- to 10-ton rubber tire roller.

A tack coat of undiluted SS1H emulsified asphalt shall be placed on all exposed hot mix asphalt and concrete surfaces prior to placement of asphalt.

The Engineer may sample the hot mix asphalt from truck beds at the plant, from the hopper of the spreading machine, or from the completed mat at the discretion of the Engineer. The Contractor shall facilitate the sampling process.

The temperature of the hot mix asphalt prior to placement shall not be less than 260°F or at the discretion of the engineer.

The Contractor shall construct temporary pavement transitions at all transverse paving joints greater than 1 inch prior to allowing traffic onto the paved surface. Temporary pavement transitions shall have a maximum slope of 20:1 or as approved by the engineer and be constructed on Kraft paper or other suitable bond breaker such that upon removal of the temporary pavement transition, a clean notch remains. The temporary transitions may be constructed of either cold mix or hot mix.

The Contractor shall continuously maintain the temporary pavement until final paving. Each temporary transition shall be inspected by the Contractor and repaired as necessary to comply with these provisions at the end of each day including weekends and holidays.

Asphalt paving machines used for mainline overlay paving shall meet the following minimum criteria:

- Minimum Engine Power: 120 horsepower (HP)
- Minimum Operating Weight: 31,000 pounds (lbs.)
- Capable of Automatic Screed Control

The paving machine shall be capable of maintaining continuous forward travel and production placement without interruption due to insufficient power or weight.

The Contractor shall have hand-compaction equipment immediately available for compacting all areas inaccessible to rollers. Hand-compaction shall be performed concurrently with breakdown rolling. If for any reason hand-compaction falls behind breakdown rolling, further placement of hot mix asphalt shall be suspended until hand-compaction is caught

up. Hand-compaction includes vibraplates and hand tampers. Hand torches shall be available for rework of areas which have cooled.

After compaction, the surface texture of all hand work areas shall match the surface texture of the machine placed mat. Any coarse or segregated areas shall be corrected immediately upon discovery. Failure to immediately address these areas shall cause suspension of hot mix asphalt placement until the areas are satisfactorily addressed, unless otherwise allowed by the Engineer.

8.4. HOT MIX ASPHALT DIG OUT AND REPAIRS

Measurement and Payment

Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all of the work involved in compliance with the Plans, Specifications and “Hot Mix Asphalt Dig out and Repairs” of the Technical Specifications, shall be included and paid for in the appropriate bid item price.

Bid Item #15	2" Depth Dig Outs	S.F.
Bid Item #16	4" Depth Dig Outs	S.F.
Bid Item #A1.6	2" Depth Dig Outs	S.F.
Bid Item #A1.7	4" Depth Dig Outs	S.F.

General

Hot mix asphalt (HMA) dig outs shall conform to Section 39, “Hot Mix Asphalt,” of the Standard Specifications, the Plans, and these Contract Documents. Attention is directed to “Hot Mix Asphalt (HMA)” of these Technical Specifications. The Contractor shall grind and replace the hot mix asphalt pavement to a depth of four (4) inches on residential streets or six (6) inches on arterial streets at locations marked in the field by the Engineer.

Existing roadway sections may contain road paving fabric. All costs associated with the grinding, removing, and disposing of HMA including those containing road paving fabric shall be borne by the Contractor.

The Contractor shall notify the Engineer a minimum of five (5) working days prior to any dig out repair work done within any signalized intersection, which would cause expected interference/interruption to the existing traffic signal system and/or traffic control.

Prior to beginning any work on the dig out and repairs, the Contractor shall arrange for and conduct a field review of the job and mark out the locations of each dig out with the Engineer. The Engineer and Contractor shall record the agreed upon dimensions for each dig out at each location. Size of the dig outs shall not vary from this agreement unless specified in writing by the Engineer. Additional compensation shall not be allowed for dig outs in excess of the agreed upon size.

The HMA in the dig outs shall be placed on the same day as the removal. The HMA shall be placed and compacted in at least two lifts unless shown otherwise allowed by the Engineer.

The contract price per square foot shall remain the same despite any increase or decrease in contract quantities.

The existing section will be removed by grinding. Any additional expenses incurred due to the increase in the size of the dig out necessary to accommodate the size of grinder shall not be paid for by the Town, including the increased cost for the additional tonnage of asphalt necessary to fill the increased dig out area.

All dig outs shall be removed and replaced on the same day with a new full depth hot mix asphalt section. Upon removing the existing AC, all loose material shall be removed to a solid surface (95% compaction) or the Contractor shall compact the upper four inches (4") of the subgrade (or aggregate base) to not less than 95% relative compaction.

A tack coat of undiluted SS1H emulsified asphalt shall be placed on all exposed hot mix asphalt and concrete surfaces prior to placement of asphalt.

All excavations shall be backfilled with the final asphalt.

The Contractor shall provide a minimum of one self-propelled, vacuum sweeper to remain on-site at all times. The sweeper shall be used to keep the streets free from debris and hazards at the direction of the engineer. By the end of each working day, all streets shall be fully available to all types of traffic and free from hazards.

The Contractor shall be responsible for protecting all utility facilities and Town monuments located within the project area. The Contractor shall be responsible for repairing any damage to the utility facilities caused by the Contractor's operations and shall be responsible for hiring a surveyor and filing the necessary paperwork for any Town monument that needs to be reset due to the Contractor's work.

Pavement markers and thermoplastic markings that are removed and replaced as part of the dig outs are considered included in this item of work, therefore, no further compensation will be allowed.

8.5. WEDGE GRIND

Measurement and Payment

Full compensation for furnishing all labor, material, equipment, tools, and all other incidentals necessary to perform the full scope of work as described above, for removal, legal disposal or as specified herein and as directed by the Engineer, including temporary striping and delineation, tack coats and paint binders, and for performing all of the work involved in compliance with the Plans, Specifications, and "Wedge Grind," of the Technical Specifications, shall be included and paid for in the appropriate bid item price.

Bid Item #17	6' Wedge Grind	L.F.
Bid Item #18	18' Wedge Grind	L.F.
Bid Item #A1.8	6' Wedge Grind	L.F.
Bid Item #A1.9	18' Wedge Grind	L.F.

General

Grinding shall conform to Section 42-3, "Grinding," of the Standard Specifications, the Plans, and these Contract Documents. The Contractor shall furnish all necessary supervision, labor, materials, construction tools and equipment to complete asphalt removal and proper disposal at locations specified by the Engineer.

Scope

Wedge grind shall consist of a longitudinal wedge cut of 1.5" by 4' (minimum) along gutter lines. Wedge grind shall consist of a transverse wedge cut of 1.5" by 18' (minimum) along streets not to receive a new surface treatment. The locations to wedge grind include, but are not limited to, any which abut any permanent structures such as curbs, gutters, sidewalks, driveways, concrete slabs, and catch basins. Any sections of asphalt that becomes loose after grinding shall be removed and disposed of by the Contractor at the Contractor's expense.

Pavement wedge grind shall not be allowed more than 48 hours prior to schedule overlay operations without written authorization from the Engineer.

Cold milling/wedge cutting machines shall be operated so as not to produce fumes or smoke. They shall be capable of planning/milling/wedge cutting the pavement without requiring the use of a heating device to soften the pavement during, or prior to, the cutting operation.

The Contractor shall be responsible for maintaining all wedge cuts, using cutback or other methods, to prevent tire and suspension damage to vehicles and to prevent hazards to bicyclists and pedestrians.

Wedge cutting at corners, returns and hard to get areas shall be done with special grinding equipment capable of grinding such areas. Wedge cutting or grinding may encounter existing paving fabric on previously overlaid streets. No additional payment will be made for this condition and the Contractor shall dispose of the fabric at no additional cost. The same method shall be used on all structures that area left above the traveled asphalt surface.

Asphalt wedge grind shall be measured by lineal feet and as marked in the field by the Engineer. No payment shall be made for materials removed outside of the limits marked by the Engineer.

8.6. ASPHALT REMOVAL

Measurement and Payment

Full compensation for furnishing all labor, materials, equipment and incidentals, and for doing all of the work involved in compliance with the Plans, Specifications, and "Asphalt Removal" of the Technical Specifications, including but not limited to removal, legal disposal, temporary striping and delineation, tack coats, and paint binders, shall be included and paid for in the appropriate bid item price.

Bid Item #19	Asphalt Removal-2" Depth	S.Y.
Bid Item #20	Asphalt Removal-4" Depth	S.Y.

General

The Contractor shall furnish all necessary supervision, labor, materials, construction tools and equipment, supplies to complete asphalt removal, fabric/petromat, and proper disposal at locations marked by the Engineer. The Contractor to cold plane and remove asphalt to a depth as indicated on the Plans. No payment shall be made for materials removed outside of the limits marked by the Engineer. Existing pavement surface on roadways to be milled prior to pavement inlay shall be cold planed as specified herein. The Contractor shall be responsible for maintaining all cold planing cuts, using cutback or other methods, to prevent tire and suspension damage to vehicles and to prevent hazards to bicyclists and pedestrians.

Equipment

The machine used for planing shall have performed satisfactorily on similar work and shall meet the following requirements.

The planing machine shall be specifically designed and built for the planing of bituminous pavements without the addition of heat. It shall have the ability to plane Portland cement concrete patches in the bituminous pavement. The cutting drum shall be a minimum of sixty inches wide and shall be equipped with carbide tipped cutting teeth placed in a variable lacing pattern to produce the desired finish.

The machine shall be capable of being operated at speeds of zero to forty feet per minute, it shall be self-propelled, and have the capability of spraying water at the cutting drum to minimize dust. The machine shall be operated in such a way so that no fumes or smoke will be produced. The machine shall be capable of removing the paving material next to curbs or gutters and be designed such that the operator thereof can at all times observe the planing operation without leaving the controls. The machine shall be adjustable for slope and depth and shall be equipped with sonic sensing devices for controlling depth.

Construction

The limits of cold planing will be determined by the Engineer prior to construction. Cold planing may require removal of existing asphalt pavement above gutter lips, in addition to the required depth below the gutter lip, due to prior overlays. Pavement to be cold planed may contain pavement fabric. No additional payment will be made for these conditions and the Contractor shall dispose of the additional asphalt and/or fabric at no additional cost. Cold planing shall not be allowed more than 48 hours prior to the scheduled overlay operations without written authorization from the Engineer.

The Contractor shall obtain a water meter from San Jose Water prior to drawing water from any hydrant.

8.7. Asphalt Crack Sealing

Measurement and Payment

Full compensation for furnishing all labor, materials, tools, flaggers, equipment, and all incidentals, and for doing all of the work in compliance with the plans, specifications and "Asphalt Crack Sealing" of the Technical Specifications shall be included and paid for in the lump sum (L.S.) price for:

Bid Item #21	Crack Sealing	L.S.
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General

Prior to any crack seal/fill, any cracks (including less than 1/4") within project limits shall be cleaned of dirt and vegetation. Prior to any types of pavement treatment or resurfacing, the Contractor shall crack seal/fill all cracks that are 1/4" wide or larger for slurry seal streets, cracks that are 1/2" or larger for rubber cape seal streets, and cracks that are 1/8" or larger for crack sealing only streets. The crack filler material shall be produced from an asphaltic base crude and granulated crude rubber. It shall not have been distilled at a temperature high enough to inquire by burning. The material shall meet any applicable rules and regulations of the Bay Area Quality Management District.

Materials, plants, vegetation, etc. shall be removed from all cracks prior to placement of the filler. The crack filler shall be a mixture of paving asphalt and ground rubber or ground rubber and polymer which conforms to the following requirements:

Softening Point, ASTM Designation:	D36	180°F minimum
Cone Penetration at 77°F, ASTM Designation:	D5329	30 dmm minimum
Resilience at 77°F, ASTM Designation:	D5329	40% minimum
Flow, ASTM Designation:	D5329	3 mm maximum

The gradation of the ground rubber shall be such that 100% will pass a No. 8 sieve.

The modified asphalt materials shall be furnished premixed in containers with an insider liner of polyethylene. Packaged material shall not exceed 60 lbs. in weight. Storage and heating instructions and cautions shall be supplied by the vendor with each shipment. The material shall be capable of being melted and applied to the cracks and joints at temperatures below 400°F. When heated, it shall readily penetrate cracks 1/4" wide or larger.

The vendor for the crack seal shall furnish a certificate that the material complies with the above requirements. A certificate of compliance conforming to Section 6-3.05E, "Certificates of Compliance," of the Standard Specifications shall be supplied with each shipment. Crack filling shall take place after the asphalt dig out repairs and grinding work are completed. Crack filler should be left 1/8" to 1/4" below top of crack.

8.8. ASPHALT RUBBER CAPE SEAL, MICRO SURFACING, AND SLURRY SEAL

Measurement and Payment

Full compensation for furnishing all labor, materials, equipment, and incidentals and for doing all the work in compliance with the Plans, Specifications, and "Asphalt Rubber Cape Seal, Micro Surfacing, and Slurry Seal" of the Technical Specifications, shall be included and paid for in the appropriate bid item price.

Bid Item #22	Asphalt Rubber Cape Seal	S.Y.
Bid Item #23	Micro Surfacing (Black Aggregate)	S.Y.
Bid Item #A1.10	Asphalt Rubber Cape Seal	S.Y.

General

Asphalt rubber cape seal, rubber chip seal, micro surfacing, or slurry seal shall be installed in all designated locations as shown in **Appendix A**. Asphalt rubber cape seal is defined as the application of an asphalt rubber chip seal followed by the application of a Type II slurry seal or micro surfacing.

ASPHALT RUBBER CHIP SEAL

General

The following sections of this specification describe the preparation, materials application and finishing requirements for the asphalt rubber seal coat (asphalt rubber chip seal).

Asphalt rubber seal coat shall consist of an application of asphalt rubber binder and screenings pre-coated with paving asphalt. Asphalt rubber seal coat shall conform to the provisions specified for seal coats in Section 37-2, "Seal Coats," of the Standard Specifications and these Special Provisions.

Materials

The Contractor shall furnish a Certificate of Compliance to the Engineer for each material used in the asphalt rubber binder mixture. It shall certify that the material conforms to the requirements in the Special Provisions. When requested by the Engineer, the Contractor shall also submit samples with the Certificate of Compliance. The Contractor shall provide the Engineer a Material Safety Data Sheet (MSDS) for each of the constituent components of the asphalt rubber binder and for the completed mixture of the asphalt rubber binder.

The Contractor shall provide a Certificate of Compliance for each truck load of crumb rubber modifier (CRM), paving asphalt, and asphalt modifier delivered to the project. The Quality Control Program used by the manufacturer of each ingredient shall include a sampling and testing frequency as shown below:

- a. CRM shall be tested except for the grading requirement, at least once for every 250 tons with a minimum of once per project. CRM shall be tested for grading for every truck load delivered to the project.
- b. Paving Asphalt shall be tested at least once for every 200 tons of production with a minimum of once per project.
- c. Asphalt modifier shall be tested at least once for every 25 tons of production with a minimum of once per project.
- d. A copy of the laboratory test results for the test parameters specified in these special provisions for CRM, paving asphalt, and asphalt modifier shall be submitted to the Engineer with the Certificate of Compliance for each truck load of individual material delivered to the project.

Certified volume or weight slips shall be delivered to the Engineer for materials supplied.

Paving Asphalt

Paving asphalt to be used in the asphalt rubber binder shall be Grade PG 64-16 and shall conform to the provisions in Section 92, "Asphalts," of the Standard Specifications reflecting the use of 'Performance Grade (PG)' asphalt binders.

The paving asphalt for use in asphalt rubber binder shall be modified with an asphalt modifier. The rubberized asphalt concrete (RAC) chip material shall be made from 100% recycled California Waste Tires.

Asphalt Modifier

The asphalt modifier shall be a resinous, high flash point, aromatic hydrocarbon compound and shall conform to the following requirements:

Asphalt Modifier		
Test Parameter	ASTM Designation	Requirement
Viscosity, m ² /s (10 ⁻⁶) at 100°C	D 445	X ±3*
Flash Point, CL.O.C. °C	D 92	405 min.
Molecular Analysis		
Asphaltenes, percent by mass	D 2007	0.1 max.

Aromatics, percent by mass	D 2007	55 min.
*	The symbol "X" is the viscosity of the asphalt modifier the Contractor proposes to furnish. The value "X" which the Contractor proposes shall be between the limits 19 and 36 and shall be submitted in writing to the Engineer. Any proposed change, requested by the Contractor, in the value "X" shall require a new asphalt rubber binder design.	

The asphalt modifier shall be proportionately added to the paving asphalt at the production site where the asphalt rubber binder is blended and reacted. Asphalt modifier shall be added at an amount of 2.5 percent to 6.0 percent by weight of the paving asphalt based on the recommendation of the asphalt rubber binder supplier. The paving asphalt shall be at a temperature of not less than 375°F no more than 440°F when the asphalt modifier is added. If the asphalt modifier is combined with the paving asphalt, before being blended with the CRM, the combined paving asphalt and asphalt modifier shall be mixed by circulation for a period of not less than 20 minutes. This premixing of asphalt modifier and paving asphalt will not be required when all ingredients of the asphalt rubber binder are proportioning with the meters conforming to the provisions in Section 9-1.02, "Measurement," of the Standard Specifications.

Crumb Rubber Modifier (CRM)

Crumb rubber modifier (CRM) shall consist of a combination of scrap tire CRM and high natural CRM. The scrap tire CRM shall consist of ground or granulated rubber derived from any combination of automobile tires, truck tires or tire bufferings. The high natural CRM shall consist of ground or granulated rubber derived from materials that utilize high natural rubber sources.

Steel and fiber separation shall be accomplished by any method. Cryogenic separation, if utilized, shall be performed separately from and prior to grinding or granulating.

CRM shall be ground or granulated at ambient temperature. Cryogenically produced CRM particles that pass through the grinder or granulator without being ground or granulated, respectively, shall not be used.

CRM shall not contain more than 0.01-percent wire (by weight of CRM) and shall be free of other contaminants, except fabric. Fabric shall not exceed 0.05-percent by weight of CRM. A certificate of compliance certifying these percentages shall be furnished to the Engineer in conformance with Section 6-3.05E, "Certificates of Compliance," of the Standard Specifications.

The length of an individual CRM particle shall not exceed 3/16 inch.

The CRM shall be sufficiently dry so that the CRM will be free flowing and will not produce foaming when combined with the blended paving asphalt and asphalt modifier mixture. Calcium carbonate or talc may be added at a maximum amount of 3 percent by weight of CRM to prevent CRM particles from sticking together. The CRM shall have a specific gravity of between 1.1 and 1.2 as determined by California Test 208. Scrap tire CRM and high natural CRM shall be delivered to the production site in separate bags and shall be sampled and tested separately.

CRM Material shall conform to the following requirements as determined by ASTM Designation D297:

	Scrap Tire CRM	High Natural CRM
	Percent	Percent

Test Parameter	Minimum	Maximum	Minimum	Maximum
Acetone Extract	6.0	16.0	4.0	16.0
Rubber Hydrocarbon	42.0	65.0	50.0	—
Natural Rubber content	22.0	39.0	40.0	48.0
Carbon Black Content	28.0	38.0	—	—
Ash Content	—	8.0	—	—

The CRM for asphalt rubber binder shall conform to the gradations specified below when tested in conformance with the requirements in ASTM Designation C136, except as follows:

- a. Split or quarter 100 g +/- 5 g from the CRM sample and dry to a constant mass at a temperature of not less than 57°C nor more than 63°C and record the dry sample mass. Place the CRM sample and 5 g of talc in a 0.5-L jar. Seal the jar then shake the jar by hand for a minimum of one minute to mix the CRM and the talc. Continue shaking or open the jar and stir until particle agglomerates and clumps are broken and the talc is uniformly mixed.
- b. Place one rubber ball on each sieve. Each ball shall have a mass of 8.5 g +/- 0.5 g, have a diameter of 24.5 mm +/- 0.5 mm, and shall have a Shore Durometer “A” hardness of 50 +/- 5 in conformance with the requirements in ASTM D2240. After sieving the combined material for 10 minutes +/- 1 minute, disassemble the sieves. Material adhering to the bottom of a sieve shall be brushed into the next finer sieve. Weigh and record the mass of the material retained on the 2.36-mm sieve and leave this material (do not discard) on the scale or balance. Observed fabric balls shall remain on the scale or balance and shall be placed together on the side of the scale or balance to prevent the fabric balls from being covered or disturbed when placing the material from finer sieves onto the scale or balance. The material retained on the next finer sieve (2.00-mm sieve) shall be added to the scale or balance. Weigh and record that mass as the accumulative mass retained on that sieve (2.00-mm sieve). Continue weighing and recording the accumulated masses retained on the remaining sieves until the accumulated mass retained in the pan has been determined. Prior to discarding the CRM sample, separately weigh and record the total mass of fabric balls in the sample.
- c. Determine the mass of material passing the 75-µm sieve (or mass retained in the pan) by subtracting the accumulated mass retained on the 75-µm sieve from the accumulated mass retained in the pan. If the material passing the 75-µm sieve (or mass retained in the pan) has a mass of 5 g or less, cross out the recorded number for the accumulated mass retained in the pan and copy the number recorded for the accumulated mass retained on the 75-µm sieve and record that number (next to the crossed out number) as the accumulated mass retained in the pan. If the material passing the 75-µm sieve (or mass retained in the pan) has a mass greater than 5 g, cross out the recorded number for the accumulated mass retained in the pan, subtract 5 g from that number and record the difference next to the crossed out number. The adjustment to the accumulated mass retained in the pan is made to account for the 5 g of talc added to the sample. For calculation purposes, the adjusted total sample mass is the same as the adjusted accumulated mass retained in the pan. Determine the percent passing based on the adjusted total sample mass and record to the nearest 0.1 percent:

CRM Gradations

Sieve Sizes	Scrap Tire CRM Percent Passing	High Natural CRM Percent Passing
No. 8	100	100
No. 10	98 - 100	100
No. 16	45 - 75	95 - 100
No. 30	2 - 20	35 - 85
No. 50	0 - 6	10 - 30
No. 100	0 - 2	0 - 4
No. 200	0	0 - 1

Asphalt Rubber Binder

Asphalt rubber binder shall consist of a mixture of paving asphalt, asphalt modifier, and crumb rubber modifier.

At least 2 weeks before its intended use, the Contractor shall furnish the Engineer four, one-quart cans filled with the asphalt rubber binder proposed for use on the project. The Contractor shall supply the Engineer, for approval, a binder formulation, design profile and samples of all materials to be used in the asphalt rubber binder, at least 2 weeks before construction is scheduled to begin. The binder formulations shall consist of the following information:

A. Paving Asphalt and Modifiers:

1. Source and grade of paving asphalt
2. Source and identification (or type) of modifiers used
3. Percentage of asphalt modifier by weight of paving asphalt
4. Percentage of the combined blend of paving asphalt and asphalt modifier by total weight of asphalt rubber binder to be used
5. Laboratory test results for test parameters shown in these Special Provisions

B. Crumb Rubber Modifier (CRM):

1. Source and identification (or type) of scrap tire and high natural CRM
2. Percentage of scrap tire and high natural CRM by total weight of the asphalt rubber blend
3. If CRM from more than one source is used, the above information will be required for each CRM source used
4. Laboratory test results for test parameters shown in these Special Provisions

C. Asphalt Rubber Binder:

1. Laboratory test results of the proposed blend for test parameters shown in these Special Provisions

2. The minimum reaction time and temperature

The method and equipment for combining the paving asphalt, asphalt modifier, and CRM shall be so designated and accessible that the Engineer can readily determine the percentages by weight for each material being incorporated into the mixture.

The proportions of the materials, by total weight of asphalt rubber binder, shall be 80 percent +/- 2 percent combined paving asphalt and asphalt modifier and 20 percent +/- 2 percent CRM. However, the minimum amount of CRM shall not be less than 18.0 percent. Lower values shall not be rounded up. The CRM shall be combined at the production site and shall contain 75 percent +/- 2 percent scrap tire CRM and 25 percent +/- 2 percent high natural CRM, by weight.

The paving asphalt and asphalt modifier shall be combined into a blended mixture that is chemically compatible with the crumb rubber modifier to be used. The blended mixture shall be considered to be chemically compatible when the mixture meets the requirements for asphalt rubber binder (after reacting) found in these Special Provisions.

The blended paving asphalt and asphalt modifier mixture and the CRM shall be combined and mixed together at the production site in a blender unit to produce a homogeneous mixture.

The temperature of the blended paving asphalt and asphalt modifier mixture shall not be less than 375°F nor more than 440°F when the CRM is added. The combined materials shall be reacted for a minimum of 45 minutes after incorporation of the CRM at a temperature of not less than 375°F nor more than 425°F. The temperature shall not be higher than 10°F below the actual flash point of the asphalt rubber binder.

After reacting, the blended asphalt rubber binder shall conform to the following requirements:

Blended Asphalt Rubber Binder			
		Requirement	
Test Parameter	ASTM Test Method	Minimum	Maximum
Cone Penetration @ 25°C, 1/10 mm	D 217	25	60
Resilience @ 25°C, Percent rebound	D 5329	25	--
Field Softening Point, °C	D 36	55	88
Viscosity @190°C, Pa • s (x10 ⁻³)	See Note	1500	3500

Note:

The viscosity test shall be conducted using a hand held Haake Viscometer Model VT 02 with Rotor 1, 24 mm depth x 53 mm height, or equivalent, as determined by the Engineer. The accuracy of the viscometer shall be verified by comparing the viscosity results obtained with the hand held viscometer to 3 separate calibration fluids of known viscosities ranging from 1000 to 5000 Pa • s (x10³). The viscometer will be considered accurate if the values obtained are within 300 Pa • s (x10³) of the known viscosity. The known viscosity value shall be based on the fluid manufacturer's standard test temperature or the test temperature versus viscosity correlation table provided by the fluid manufacturer. All viscometers used on the project shall be verified to be accurate. The test method for determining the viscosity of asphalt rubber binder using a hand held viscometer is available at the Transportation Laboratory, Office of Pavement Consulting Services, Sacramento, California, Telephone (916) 227 7300. The accuracy verification results shall be provided to the

Engineer and shall be certified by a Certificate of Compliance. The Certificate of Compliance shall be furnished to the Engineer in conformance with the provisions in Section 6 3.05E, "Certificates of Compliance," of the Standard Specifications.

The Contractor shall provide a Haake Viscometer, or equivalent, at the production site during the combining of asphalt rubber binder materials. The Contractor shall take viscosity readings of asphalt rubber binder from samples taken from the distributor truck a minimum of 45 minutes after incorporation of the CRM. Readings shall be taken at least every hour with no less than one reading for each batch of asphalt rubber binder. The Contractor shall log these results, including time and asphalt rubber temperature. A copy of the log shall be submitted to the Engineer on a daily basis. As determined by the Engineer, the Contractor shall either notify the Engineer at least 15 minutes prior to each test or provide the Engineer a schedule of testing times.

The reacted asphalt rubber binder shall be maintained at a temperature of not less than 375°F nor more than 425°F.

If any of the material in a batch of asphalt rubber binder is not used within 4 hours after the 45 minute reaction period, heating of the material shall be discontinued. If the asphalt rubber binder cools below 375°F and is then reheated, it shall be considered a reheat cycle. The total number of reheat cycles shall not exceed 2. The material shall be uniformly reheated to a temperature of not less than 375°F nor more than 425°F prior to use. Additional scrap tire CRM may be added to the reheated binder and reacted for a minimum of 45 minutes. The cumulative amount of additional scrap tire CRM shall not exceed 10 percent of the total binder weight. Reheated asphalt rubber binder shall conform to the requirements for blended asphalt rubber binder.

Screenings

Screenings shall conform to the provisions in these Special Provisions and in Section 37-2.02, "Materials," of the Standard Specifications, except that Section 37-2.02H(1) and 37-2.02H(2) shall not apply.

Stockpiling of screenings after preheating and pre-coating with paving asphalt will not be permitted.

Canvas or similar covers that completely cover each load of pre-coated screenings shall be used during hauling to minimize temperature drop of the pre-coated screenings.

Screenings shall conform to the following grading requirements prior to pre-coating with paving asphalt:

Screenings Grading Requirements	
1/2-inch Course Maximum	
Sieve Sizes	Percentage Passing
3/4"	100
1/2"	95-100
3/8"	70-85
No. 4	0 – 15
No. 8	0 - 5
No. 200	0 - 1

Screenings shall conform to the following quality requirements immediately prior to preheating:

Screenings Quality Requirements		
Test Parameters	California Test	Requirements
Los Angeles Rattler Loss (100 Revolutions)	211	10 Max.
Los Angeles Rattler Loss (500 Revolutions)	211	40 Max.
Film Stripping	302	25 Max.
Cleanness Value	227	80 Min.
Durability	229	52 Min.

Screenings for asphalt rubber seal coat shall be preheated to between 260°F and 325°F and uniformly coated at a rate of 0.7 percent to 1 percent by weight of dry aggregate with Grade PG-64-10 asphalt, conforming to the provisions in Section 92, "Asphalts," of the Standard Specifications reflecting the use of 'Performance Grade (PG)' asphalt binders. This reference to the Standard Specifications is for asphalt only and not for any other work.

Screenings shall be coated at a central mixing asphalt concrete plant that has been approved in conformance with the requirements in California Test 109. The exact rate will be determined by the Engineer upon a visual inspection of the first initial load delivered and thereafter as deemed necessary.

Equipment

The Contractor shall utilize the following equipment for asphalt rubber seal coat operations:

- A. Self-propelled power brooms that clean the existing pavement and remove loose screenings without dislodging screenings set in the asphalt rubber binder. Gutter brooms or steel-tinned brooms shall not be used.
- B. Pneumatic tired rollers conforming to the provisions in Section 39-3.03, "Spreading and Compacting Equipment," of the Standard Specifications, except that the rollers shall have an air pressure of 100 pounds per square inch and maintained so that the air pressure will not vary more than +/- 5 pounds per square inch in each tire. A sufficient number of rollers shall be used so that one complete coverage will be provided in one pass.
- C. A self-propelled screenings spreader, equipped with a screenings hopper in the rear, belt conveyors to carry the screenings to the front, and a spreading hopper equipped with full width distribution auger and spread roll. The screenings spreader shall be capable of providing a uniform screening spread rate over the entire width of the traffic lane in one application.
- D. An asphalt heating tank equipped to heat and maintain the blended paving asphalt and asphalt modifier mixture at the necessary temperature before blending with the CRM. This unit shall be equipped with a thermostatic heat control device and a temperature reading device and shall be accurate to within +/- 5° F and shall be of the recording type.
- E. A mechanical mixer for the complete, homogeneous blending of paving asphalt, asphalt modifier, and CRM. Paving asphalt and asphalt modifier shall be introduced into the mixer through meters conforming to the

provisions in Section 9-1.02, "Measurement," of the Standard Specifications. The blending system shall vary the rate of delivery of paving asphalt and asphalt modifier proportionate with the delivery of CRM. During the proportioning and blending of the liquid ingredients, the temperature of paving asphalt and the asphalt modifier shall not vary more than +/- 25° F. The paving asphalt feed, the asphalt modifier feed, and the CRM feed shall be equipped with devices by which the rate of feed can be determined during the proportioning operation. Meters used for proportioning individual ingredients shall be equipped with rate-of-flow indicators to show the rates of delivery and resettable totalizers so that the total amounts of liquid ingredients introduced into the mixture can be determined. The liquid and dry ingredients shall be fed directly into the mixer at a uniform and controlled rate. The rate of feed to the mixer shall not exceed that which will permit complete mixing of the materials. Dead areas in the mixer, in which the material does not move or is not sufficiently agitated, shall be corrected by a reduction in the volume of material or by other adjustments. Mixing shall continue until a homogeneous mixture of uniformly distributed and properly blended asphalt rubber binder of unchanging appearance and consistency is produced. The Contractor shall provide a safe sampling device that delivers a representative sample of the completed asphalt rubber binder of sufficient size to permit the required tests.

- F. An asphalt rubber binder storage tank equipped with a heating system to maintain the proper temperature of the asphalt rubber binder and an internal mixing unity that maintains a homogeneous mixture of blended paving asphalt, asphalt modifier, and CRM.
- G. A self-propelled truck or trailer mounted distributor, equipped with an internal mixing unit that maintains a homogeneous mixture of blended paving asphalt, asphalt modifier and CRM. The distributor shall have a pump or pumps that sprays asphalt rubber binder within +/-0.05 gallons per square yard of the specified rate. The distributor shall have a fully circulating spray bar that applies the asphalt rubber binder without a streaked or otherwise irregular pattern. The distributor shall be equipped with a tachometer, pressure gages, volume measuring devices and thermometer. The distributor shall have a platform on the rear of the vehicle and an observer shall accompany the distributor. The observer shall ride in such a position that all spray nozzles are in full view and readily accessible for unplugging plugged nozzles, should plugging occur.
- H. Tailgate discharge trucks for hauling screenings shall be equipped with a device to lock onto the hitch at the rear of the screenings spreader. Haul trucks shall be compatible with the screenings spreader so that the dump bed will not push down on the spreader when fully raised or have too short a bed which results in screenings spilling while dumping into the receiving hopper.

All equipment shall be approved by the Engineer prior to use.

Preparation

The Contractor shall perform the necessary crack sealing of each street prior to the Contractor performing the necessary pavement dig out repairs and application of the chip seal or as directed by the Engineer. The Contractor shall be responsible for preparation of the pavement to receive seal coat required under Section 37-2.03D, "Surface Preparation," of the Standard Specifications. Prior to placing chip seal coat, the streets shall be cleaned by sweeping with self-propelled vacuum or regenerative air sweepers with water spray bars to reduce dust. Sidewinder sweepers or brooms that wind row material and do not remove it shall not be used. Completion of sweeping shall be evidenced by the absence of all loose particles of paving, all dirt and all other extraneous material. If needed, all areas shall be swept a second time or more if necessary in the same manner as the first sweeping or as directed by the Engineer.

Applying Asphalt Rubber Binder

Asphalt rubber binder shall be applied in conformance with these Special Provisions and with the provisions for applying asphaltic emulsion in Section 37-2.03F, "Applying Emulsion," of the Standard Specifications, except as noted below and shall apply.

Asphalt rubber binder for asphalt rubber seal coat shall be applied at a rate of 0.55 gallon to 0.65 gallon per square yard. The exact rate will be determined by the Engineer.

Asphalt rubber binder shall be placed upon a clean, dry surface. The pavement surface temperature shall be a minimum of 60°F where asphalt rubber binder is to be applied. The atmospheric temperature shall be a minimum of 60°F and a maximum of 109°F.

Distributor bar height, distribution speed, and shielding materials shall be utilized to reduce the effects of wind upon spray distribution as directed by the Engineer. The Engineer will delay or reschedule work when high, gusting or dusty winds prevent or adversely affect binder or screening application operations. Necessary equipment shall be in position and ready to commence placement operations before starting.

The Contractor shall comply with Federal, State, and Local environmental laws, rules, regulations, and ordinances including, but not limited to, air quality requirements.

The asphalt rubber binder shall be applied to the roadway immediately following mixing and reacting and shall be applied at a temperature not less than 385°F nor more than 415°F. Asphalt rubber binder application shall not be in excess of that which can be covered with screenings within two (2) minutes.

When placing asphalt rubber seal coat at intersections, left turn lanes, gore points, and other irregular areas, asphalt rubber application shall not be in excess of that which can be covered with screenings within fifteen (15) minutes.

When joining edges against areas with screenings, the joint shall be swept clean of excess screenings prior to the adjacent application of asphalt rubber binder. Transverse joints of this type shall be constructed by placing roofing paper across and over the end of the previous asphalt rubber seal coat applications. Once the spraying has progressed beyond the paper, the paper shall be removed immediately.

The longitudinal joint between adjacent applications of screenings shall coincide with the line between designated traffic lanes. Longitudinal joints shall be overlapped for complete coverage. The overlap shall not exceed 4 inches.

At longitudinal joints with screenings, the edge shall be broomed back and blended to eliminate differences in elevation. The joints shall be free from ridges and depressions and shall have a uniform appearance consistent with the adjacent sealed surface. Defects shall be corrected at the Contractor's expense.

Joints between areas of asphalt rubber binder without screenings shall be made by overlapping asphalt rubber binder distributions. The excess material shall be properly dispersed by spreading with a squeegee or rake over a larger area of freshly applied asphalt rubber binder.

The application of asphalt rubber binder to areas not accessible with the distributor bar on the distributor torch shall be accomplished by using pressurized hand wands or other means approved by the Engineer.

Spreading Screenings

Screenings for asphalt rubber seal coat shall be spread in conformance with the provisions specified for spreading screenings on asphaltic emulsion in these Special Provisions and in Section 37-2.03G, "Spreading Screenings," of the Standard Specifications, except as noted below and shall apply.

Following the application of the asphalt rubber binder, screenings shall be placed over areas receiving asphalt rubber binder.

Screenings for asphalt rubber seal coat shall be applied at a temperature not less than 225°F and not more than 325°F after applying asphalt rubber binder.

The Contractor shall prevent any vehicle, including construction equipment, from driving on the asphalt rubber binder prior to application of the screenings.

Screenings shall be applied at a rate of 25 pounds to 35 pounds per square yard. The exact rate will be determined by the Engineer. The completed spread rate shall be within 10 percent of the rate determined by the Engineer. The completed surface shall be free of gaps, ridges, depressions or other irregularities caused by the application of the asphalt rubber seal coat.

Finishing

Asphalt rubber seal coat shall be finished in conformance with the provisions for finishing screenings spread on asphaltic emulsion in these Special Provisions and in Section 37-2.03H, "Finishing," of the Standard Specifications, except as noted below and shall apply.

Initial rolling of the asphalt rubber seal coat shall consist of a minimum of one complete coverage with one or more pneumatic-tired rollers and shall begin within 90 seconds following the placement of the screenings. Chip spreading will not be allowed with less than two (20) operating rollers on the job.

The distance between the rollers and the screenings spreader shall not exceed 200 feet at any time during the spreading of the screenings operations.

A minimum of 3 complete coverages as defined in Section 39-3.04, "Transporting, Spreading, and Compacting," of the Standard Specifications with pneumatic-tired rollers, after the initial coverage, shall be made on the asphalt rubber seal coat. When permitted by the Engineer, the final roller coverage may be made with one steel wheel roller weighing 8 tons minimum and 10 tons maximum. If a steel wheel roller is used, the roller shall be operated in the static mode only.

The Contractor shall immediately remove any excess asphalt rubber from the gutters. The Contractor shall not continue to the next street until all excess asphalt rubber is removed to the satisfaction of the Engineer. No extension of time will be granted due to delay caused by non-compliance with this provision.

Sweeping shall be a multi-step operation following final rolling of the screenings. Loose screenings shall be removed from the roadway surface and abutting adjacent areas. Loose screenings shall be disposed of at least 150 feet from the nearest waterway.

Initial sweeping shall be completed before controlled traffic is permitted on the asphalt rubber seal coat. Removal of excess screenings shall be completed before uncontrolled traffic is permitted on the completed asphalt rubber seal coat. Final sweeping shall be done and loose screenings shall be removed without dislodging the screenings set in the asphalt rubber binder prior to acceptance.

Sidewinder sweepers or brooms that wind row material and do not remove it shall not be used. A minimum of two (2) sweepers shall be used at all times. All areas shall be swept a second time or more if necessary in the same manner as the first sweeping or as directed by the Engineer. Completion of sweeping shall be evidenced by the absence of loose chips in gutters or driveways. Special attention shall be required in sweeping driveways clear of loose chips. The Contractor shall also be responsible for removal of all chips from the sidewalks and other affected areas. Streets in hill

areas shall be swept as often as necessary to remove loose chips from the roadway. The Contractor shall provide a sufficient number of sweepers (minimum two) to sweep all streets within 24 hours after spreading screenings (chips).

The use of any sweeper that causes damage to the chip seal coat shall be discontinued. The Contractor shall patch the chip seal where any voids exist prior to application of the fog, slurry, or micro seal. Any void caused by automobile tires, poor adhesion of chips to emulsion, or any other cause shall be the Contractor's responsibility to patch prior to application of the fog or slurry seal.

Final Sweeping

A minimum of three (3) self-propelled power brooms shall be used that are capable of cleaning the existing pavement and removing loose screenings without dislodging screenings set in the asphalt rubber mixture. Gutter brooms or steel-tined brooms shall not be used.

Sweeping of the chip seal shall commence one hour after completion of the rolling operation or as directed by the Engineer. Sweeping shall be completed prior to allowing uncontrolled traffic on the road surface. Three (3) additional sweepings shall be performed one day, three days, and seven days after placement of the chip seal to remove all loose screenings. The Contractor shall spray water on these subsequent sweepings for dust removal. Excess screenings shall be salvaged and stockpiled at a designated location or removed from the job site by the Contractor.

On the day of the actual chip seal operations, three power sweepers shall be used on those streets being chip sealed that day. Two sweepers shall be used to remove excess screenings from the road surface, and one sweeper shall directly follow the chip seal operations and be used to clean the surrounding streets and road surfaces outside of the project area to avoid tracking loose material. During sweeping the day of the chip seal, water shall not be used in the removal of loose material.

POLYMER MODIFIED SLURRY SEAL (BLACK AGGREGATE)

General

The slurry seal shall consist of a mixture of a polymer modified asphalt emulsion, mineral aggregate, mineral filler, water, and specified additives. The materials shall be proportioned, mixed and uniformly spread over a properly prepared surface as directed by these Special Provisions and the Engineer. The slurry seal shall conform to the requirements of Section 37-3, "Slurry Seal and Micro-surfacing," of the Standard Specifications and these Special Provisions. The completed slurry seal shall leave a homogeneous mat and adhere firmly to the prepared surface.

The terminology "latex-modified" and "polymer-modified" asphaltic emulsion is to be used interchangeably in these Special Provisions to mean the same thing.

Asphaltic Emulsion

Asphaltic Emulsion used for slurry seal shall be designated as grade PMCQS-1h or equal.

The polymer used to modify the asphaltic emulsion, shall be, at the option of the Contractor, neoprene, or a co-polymer of butadiene and styrene. Solid polymers shall be adequately blended into the asphalt prior to emulsification. If a liquid latex such as neoprene or similar is used, the latex shall be "co-milled" into the emulsion through the water phase during manufacturing.

Each load of polymer modified asphaltic emulsion shall have a certificate from the asphalt emulsion manufacturer guaranteeing that either asphalt blending or "co-milling" processes were used. The certificate shall also state the

percentage of the solid rubber polymer added by weight of the asphalt as well as the composition of the polymer. The addition of latex to the emulsion after emulsion manufacturing is prohibited.

The polymer modified asphalt emulsion shall conform to the following specifications:

Tests on Emulsion			
Test	Test Method	Requirement	
		Minimum	Maximum
Viscosity SSF, @ 77°F, seconds	AASHTO T59	15	90
Sieve Test, %	AASHTO T539	---	0.30
Storage Stability Test, 1 day %	AASHTO T59	---	1.0
Residue by Evaporation, %	CTM 331	57	---
Particle Charge	AASHTO T59	Positive	
Tests on Residue			
Test	Typical	Requirement	
		Minimum	Maximum
Penetration, 77°F	AASHTO T49	40	90
Ductility, 77°F, mm	AASHTO T51	400	---
Polymer Content, %	CTM 401	2.5%	---
See Section 94-1.01C of the Standard Specifications for Sampling Requirements			
OR			
Torsional Recovery, %	CTM 332	18	---

A certificate of Compliance shall be furnished to the Engineer in accordance with Section 6-3.05E, "Certificates of Compliance," of the Standard Specifications and these Special Provisions. The Certificate of Compliance shall include all information stipulated in Section 94, "Asphaltic Emulsions," of the Standard Specifications. Additional information relevant to the specifications shall be furnished if requested by the Engineer. Samples will be obtained in accordance with ASTM Method D140 or such other methods as are approved by the Engineer.

Aggregate

Aggregate for the slurry seal shall comply in all respects to requirements in Section 37-3, “Slurry Seal and Micro-surfacing,” of the Standard Specifications for a Type II slurry seal except for the following:

Aggregate shall consist of sound, durable, crushed stone or crushed gravel. If approved by the Engineer, mineral filler will be allowed.

Aggregates shall be 100% crushed with no rounded particles, volcanic in origin, and black in color. The use of gray or light-colored aggregate will not be allowed. The percentage composition by weight of the aggregate shall conform to the following grading:

Percentage Passing	
Sieve sizes	Type II
3/8" (9.5 – mm)	100
No. 4 (4.75 – mm)	90-100
No. 8 (2.36 – mm)	65-90
No. 16 (1.18 – mm)	40-70
No. 30 (600 – um)	25-50
No. 200 (75 – um)	5-15
Theoretical asphalt content, % based on dry aggregate	7.5-13.5
Approximate application rate (Pounds/Square Yard)	14-18

The aggregate shall also conform to the following quality requirements:

Test	Method of Test	Requirement
Sand Equivalent	CTM 217	60 min.
Durability Index	CTM 229	55 min.

When the results of both the aggregate grading and the Sand Equivalent test do not conform to the requirement specified, both payments to the Town shall apply. The Town may deduct these amounts from any monies due, or that may become due the Contractor under the contract. No single aggregate grading or Sand Equivalent test shall represent more than 300 tons or one-day’s production whichever is smaller.

The Contractor, in accordance with Section 6-3.05E, “Certificates of Compliance,” of the Standard Specifications, will furnish a Certificate of Compliance for aggregates used in the slurry seal. The Certificate of Compliance shall include results of laboratory tests indicating the average gradation, minimum sand equivalent and maximum film stripping and durability index, all in accordance with Section 37-2.02, “Materials,” of the Standard Specifications.

Mineral Filler

Mineral filler shall be either Portland Cement, hydrated lime, limestone dust, fly ash or other approved filler meeting the requirements of ASTM D242 and shall be used if required by the mix design. The mineral filler shall be considered as part of the aggregate in calculations regarding slurry seal asphalt content.

Additives

Additives may be used to accelerate or retard the mixing and setting characteristics of the slurry seal or improve the resulting finished surface. The use of additives in the slurry mix (or individual materials) shall be made initially in quantities predetermined by the mix design with field adjustments if required. If the use of additives during application requires a greater than + or – 1.0% deviation from the recommendations of the mix design, a new mix design will be performed to verify system performance at higher or lower additive levels.

Mix Design

At least seven (7) working days before slurry seal placement commences, the Contractor shall submit to the Engineer for approval a laboratory report of tests and proposed mix design covering the specific materials to be used on the project. The percentage of asphalt emulsion proposed in the mix design shall be within the percentage range specified in Section 37-3.03B, “Proportioning,” of the Standard Specifications.

The tests and mix design shall be performed by a laboratory capable of performing the applicable International Slurry Seal Association (ISSA) tests. The proposed slurry seal mixture shall conform to the requirements specified when tested in accordance with the following tests:

Test	Description	Specification
ISSA TB 106	Slurry Seal Consistency, mm	30 maximum
ISSA TB-139	Wet Cohesion (using project source aggregate, asphalt emulsion and set-control agents, if used) 30 minutes min. 60 minutes min.	12 kg-cm minimum 20 kg-cm minimum
ISSA TB-109	Excess Asphalt By LWT Sand Adhesion	50 g/ft ² maximum (538 g/m ² maximum)
ISSA TB-114	Wet Stripping	Pass
ISSA TB 115	Compatibility	Pass
ISSA TB-100	Wet Track Abrasion Loss, one-hour soak (minimum asphalt content)	75 g/ft ² maximum (807 g/m ² maximum)
ISSA TB-113	Mix Time (Mixing test and set time test shall be done at the highest temperature expected during construction)	Controllable to 180 sec. minimum

The laboratory report shall be signed by the laboratory that performed the tests and mix design and shall show the results of the tests on individual materials, comparing the test results to those required by the specifications. The report shall clearly show the proportions of aggregate, filler (as determined from the tests, minimum and maximum), water (minimum and maximum), asphalt solids content based on the dry weight of aggregate and set-control agent usage. The laboratory shall also report the quantitative effects of moisture content on the unit weight of the aggregate (bulking effect). Previous laboratory reports covering the same materials may be accepted provided they are made during the same calendar year.

The Engineer shall approve the mix design and all slurry seal materials and methods prior to use. The job mix design shall conform to the specification limits and be suitable for the traffic climate conditions, curing conditions and final use. This will include recommended application rate of slurry to suit the job conditions. Any changes in the proportions will be made only when approved by the Engineer.

Proportioning

Proportioning shall conform to the provisions in Section 37-3.03B, "Proportioning," of the Standard Specifications and these Special Provisions.

The completed mixture, after addition of water and any set-control agent used, shall be such that the slurry seal mixture has proper workability and (a) will permit uncontrolled traffic on the slurry seal within two (2) hours after placement without the occurrence of tracking, bleeding, raveling, separation or other distresses, and (b) prevent development of bleeding, raveling, separation or other distress within fifteen (15) days after placing the slurry seal.

Mixing and Spreading Equipment

Mixing and spreading equipment shall conform to the provisions in Section 37-3.03C, "Mixing and Spreading Equipment," of the Standard Specifications and these Special Provisions.

A minimum of two 7-cubic yard capacity or larger slurry machines shall be on the job and in good operating condition at all times. Machines must be able to negotiate all turns next to the curbs in cul-de-sacs, on initial pass in one continuous pass.

Preparation of Surface

Before the polymer modified slurry seal is applied, the pavement surface shall be swept free of all debris and loose debris using power sweepers, cracks shall be filled, and dig outs completed. The Contractor shall remove all existing weeds and plant materials in all the street sections that will receive slurry seal surfacing. Removal of weeds and plant materials shall be done using a chemical weed killer (per manufacturer's recommendations) such as approved by the Engineer, and all these areas shall be thoroughly cleaned using compressors or other means acceptable to the Engineer.

All existing/temporary pavement markers, paint and thermoplastic shall be removed and disposed of by the Contractor. Said removal shall not occur sooner than two days prior to the slurry sealing is performed and shall be paid under Section 10-8, "Pavement Marker, Thermoplastic Marking, and Striping Removal," of these Special Provisions.

Manholes, valves, survey monuments, or miscellaneous frames and covers shall not receive a seal coat. These shall be protected as noted in Section 10-3, "Existing Facilities," of these Special Provisions. Any frame or cover seal coated shall be cleaned to the satisfaction of the Engineer and the cost for the cleaning shall be borne by the Contractor.

On those streets scheduled to receive slurry seal after the application of the rubberized asphalt seal coat, the chip seal shall be allowed to age and cure under traffic for at least one week before placing the slurry mixture. A longer curing period shall be required if, in the opinion of the Engineer, the rubberized asphalt binder used for the chip seal has not

achieved a reasonable set, which could result in damage to the cape seal if prematurely covered by the slurry mix. The Contractor shall sweep and remove all loose screenings prior to the placement of the slurry seal mix.

The Engineer will give notification to the Contractor indicating when the slurry mixture can be applied. Unless adverse weather conditions prevail, as determined by the Engineer, the curing period will not exceed two (2) weeks.

The Contractor shall patch the chip seal where any voids exist prior to application of the slurry seal. Any voids caused by automobile tires, poor adhesion of chips to emulsion, or any other cause shall be the Contractor's responsibility to repair prior to application of slurry seal.

Placing

Placing shall conform to the provisions in Section 37-3.03D, "Placing," of the Standard Specifications and these Special Provisions. The Contractor shall place slurry seal no later than 2 pm onto any street surface.

No application of slurry mixture shall be permitted when the temperature of the pavement to be surfaced is below 50° F or when the air temperature is below 60°F in the shade or when, in the opinion of the Engineer, road conditions, road temperatures, imminence of rain, wetness or dampness are not conducive to successful results.

The slurry mixture shall be uniformly spread by means of a controlled spreader box conforming to the requirements of Section 37-3.03C, "Mixing and Spreading Equipment," of the Standard Specifications.

If required by the Engineer, the slurry machine shall be inspected and calibrated on a 300-foot test section. The calibration shall establish the settings required to obtain the application rate for the slurry and correct proportions of ingredients in accordance with these Special Provisions.

All surfaces to be slurry sealed shall be lightly dampened with a fog spray of water. The slurry machine shall move forward at such a speed that the fluid slurry mixture will penetrate and substantially fill all available voids. The slurry box squeegees, rubber belting, or similar material, shall be flexible enough to wipe the slurry uniformly over the surface of the roadway without gouging, scouring or abrading the existing surface or chips.

The slurry seal mixture shall be spread at a rate between 12-20 lbs./sq. yd. The exact rate will be determined in the field by the Engineer.

Areas which cannot be reached with the slurry seal machine shall be surfaced using hand squeegees to provide complete and uniform coverage. Care shall be taken to leave no unsightly appearance from the handwork. All handwork shall achieve the same type of finish as applied by the spreader box. All incidental handwork such as surfacing of driveway aprons and returns shall be done concurrently with the surfacing of the street proper.

The joint between the edge of pavement and the concrete gutter shall be sealed/filled with slurry seal and not overlap into the gutter pan. Any application spillage beyond this joint shall be removed or cleaned up by the Contractor to the satisfaction of the Engineer. Gutter spills and any tracking of slurry seal onto concrete improvements shall be cleaned immediately. The edges of the limits of the slurry seal application of both sides of the street shall be maintained in a neat and uniform line.

All lines of termination of slurry sealing shall be neat and straight. The Contractor shall use building paper or an approved equal header material at all limits of work. Longitudinal joints shall be at the crown of the street or at the edge of the traveled lanes. No excessive buildup or unsightly appearance shall be permitted on longitudinal and transverse joints.

Care will be taken to avoid leaving ridges at the lap joints between adjoining passes. Wherever possible, joints will coincide with lane lines or in the center of the lane. In no case will ridges be allowed in the normal wheel track of vehicles. The forward speed of the slurry spreader shall be adjusted to eliminate corrugations or surface irregularities in the slurry coat, which are caused by excessive speed.

No lumping, balling, or unmixed aggregate shall be permitted. No segregation of the emulsion and fines from the coarse aggregate shall be permitted. If coarse aggregate settles to the bottom of the mix, the slurry mix shall be removed from the pavement. No excessive breaking of emulsion shall be allowed in the spreader box. No streaks caused by oversized aggregates will be left on the finished pavement and ridges or washboarding in the finished product shall not be allowed.

Weight tags shall be furnished to the Engineer for all materials delivered to the site including aggregates, emulsified asphalt for slurry and retardant.

The Contractor shall immediately remove any excess slurry from the gutters. The Contractor shall not continue to the next street until all excess slurry is removed as determined by the Engineer. No extension of time will be granted due to delay caused by non-compliance with this provision.

The Contractor shall furnish and maintain in good operating condition all tools and equipment necessary to do the work with a minimum of inconvenience to the public and shall employ sufficient personnel to operate all equipment efficiently and skillfully.

The Contractor shall refrain from using fuel or solvents of any kind for cleaning tools and equipment in such a manner as to permit spillage of diesel fuel or solvent on the pavement, curbs, gutters, parkways, or other adjoining areas.

The Contractor shall be responsible for maintaining a clear work area until the chip seal, micro surfacing, or slurry seal has set. If the newly installed microsurfacing or slurry surface is damaged, the Contractor shall remedy any non-compliant work at the Contractor's sole expense.

Final Sweeping

Self-propelled power brooms shall be used that are capable of cleaning the existing pavement and removing loose screenings without dislodging screenings set in the asphalt-rubber mixture. A minimum of three (3) sweepings shall be performed one day, seven days, and fourteen days after placement of the slurry seal or micro surfacing to remove all loose screenings.

MICRO SURFACING (BLACK AGGREGATE)

General

The slurry seal shall consist of a mixture of a polymer modified asphalt emulsion, mineral aggregate, mineral filler, water, and specified additives. The materials shall be proportioned, mixed and uniformly spread over a properly prepared surface as directed by these Special Provisions and the Engineer. The slurry seal shall conform to the requirements of Section 37-3, "Slurry Seal and Micro-surfacing," of the Standard Specifications and these Special Provisions. The completed slurry seal shall leave a homogeneous mat and adhere firmly to the prepared surface.

Asphaltic Emulsion

Asphaltic Emulsion used for micro surfacing shall be designated as a quick-set latex modified cationic type CQS-1H emulsion and shall conform to the requirements specified in AASHTO M208 and ASTM 2397. It shall pass all applicable

storage and settlement tests. The latex shall be milled into the emulsion. The cement mixing test shall be waived for this emulsion. The completed micro surfacing shall leave a homogeneous mat and adhere firmly to the prepared surface.

Each load of polymer modified asphaltic emulsion shall have a certificate from the asphalt emulsion manufacturer guaranteeing that either asphalt blending or "co-milling" processes were used. The certificate shall also state the percentage of the solid rubber polymer added by weight of the asphalt as well as the composition of the polymer. The addition of latex to the emulsion after emulsion manufacturing is prohibited.

A certificate of Compliance shall be furnished to the Engineer in accordance with Section 6-3.05E, "Certificates of Compliance," of the Standard Specifications and these Special Provisions. The Certificate of Compliance shall include all information stipulated in Section 94, "Asphaltic Emulsions," of the Standard Specifications. Additional information relevant to the specifications shall be furnished if requested by the Engineer. Samples will be obtained in accordance with ASTM Method D140 or such other methods as are approved by the Engineer.

Distillation of residue will be at a temperature of 350 degrees F for 20 minutes. Softening point of the residue shall be 140 degrees F minimum. Viscosity, absolute at 140 degrees F, shall be 8,000 poise minimum.

The water shall be potable and shall be free of harmful soluble salts.

Special quick-setting emulsifier agents shall be milled into the asphalt emulsion. The emulsified asphalt shall be so formulated that when the paving mixture is applied at thickness of one inch width the relative humidity at not more than 50% and the ambient air temperature of at least 75 degrees F, the material will cure sufficiently so that rolling traffic can be allowed in one hour with no damage to the surface, as verified by the Engineer.

A mineral additive shall be introduced to the mineral aggregate and may be any recognized brand of non-air entrained Portland cement or hydrated lime that is free of lumps, or other approved mineral additive. The amount of mineral additive needed shall be determined by the laboratory mix design and will be considered as part of the material gradation requirement. A liquid field control additive is introduced and blended with water to provide effective control of the required quick-set properties. This additive shall be made available by the chemical supplier or emulsion manufacturer and certifiable as being compatible with the mixture.

Aggregate

The mineral aggregate used shall be of the type and grade specified for micro surfacing and shall comply in all respects to requirements in Section 37-3, "Slurry Seal and Micro-surfacing," of the Standard Specifications.

The aggregate shall be manufactured crushed stone such as granite, slag, limestone, chat, or other high-quality aggregate or combination thereof. Aggregates shall be 100% crushed with no rounded particles, volcanic in origin, and black in color. The use of gray or light-colored aggregate will not be allowed.

The aggregate including natural fines when tested by AASHTO methods T11 or T27 or ASTM C117 or C136, should meet the referenced gradation requirements.

To limit the permissible amount of clay like fines in an aggregate, a sand equivalent value of 65 or higher is required when tested by ASTM 2419.

The aggregate shall have a weighted loss of not more than 15% when the sodium sulfate test is used or 20% when the magnesium sulfate test is used.

The aggregate wear, from resistance to abrasion, shall be a maximum of 35% when using AASHTO T96 or ASTM C131 test methods.

Aggregate-Recommended Gradations:

Screen Size	Percentage Passing	
	Type II	Type III
3/8"	100	100
No. 4	90-100	70-90
No. 8	65-90	45-65
No. 16	40-65	30-50
No. 30	25-45	19-34
No. 50	15-30	12-25
No. 100	10-21	7-18
No. 200	5-13	4-12

The aggregate shall also conform to the following quality requirements:

Test	Method of Test	Requirement
Sand Equivalent	CTM 217	65 min.
Durability Index	CTM 229	65 min.
Percentage of Crushed Particles	CTM 205	95% min.
Los Angeles Rattler, Loss at 500 Revolutions	CTM 211	35% max.

Suggested Application Rate:

Type II—Urban and Residential Streets: 18-22 lbs. per sq. yd.

Type III—Primary Routes: 25-30 lbs. per sq. yd.

Wheel Ruts: Application rates as required

The Contractor, in accordance with Section 6-3.05E, "Certificates of Compliance," of the Standard Specifications, will furnish a Certificate of Compliance for aggregates used in the slurry seal. The Certificate of Compliance shall include results of laboratory tests indicating the average gradation, minimum sand equivalent and maximum film stripping and durability index, all in accordance with Section 37-2.02, "Materials," of the Standard Specifications.

The Contractor, in accordance with Section 6-3.05E, "Certificates of Compliance," of the Standard Specifications, will furnish a Certificate of Compliance for aggregates used in the slurry seal. The Certificate of Compliance shall include

results of laboratory tests indicating the average gradation, minimum sand equivalent and maximum film stripping and durability index, all in accordance with Section 37-2.02, "Materials," of the Standard Specifications.

Mix Design

At least seven (7) working days before slurry seal placement commences, the Contractor shall submit to the Engineer for approval a laboratory report of tests and proposed mix design covering the specific materials to be used on the project. Once the materials are approved, no substitution will be permitted unless first tested and approved by the laboratory preparing the mix design.

The qualified laboratory shall develop the job mix design and present certified test results for the contractor's approval. Compatibility of the aggregate and emulsion shall be verified by the mix design. The job mix formula shall provide a minimum Marshall stability of 1800 pounds and a flow of 6 to 16 units when tested according to the ASTM 1559 or AASHTO 245 procedure as modified. All component material used in the mix design shall be representative of the material proposed by the contractor for use on the project.

The Engineer shall approve the design mix and all micro surfacing materials and methods prior to use. The component materials shall be within the following limits.

Residual Asphalt	5% to 9% by dry weight of aggregate
Mineral Additive	0.5% to 3% by dry weight of aggregate
Latex Modifier	As required to provide specified properties
Field Control Additive	As required to provide the specified properties
Water	As required to produce consistency

Mixing and Spreading Equipment

Mixing and spreading equipment shall conform to the provisions in Section 37-3.03C, "Mixing and Spreading Equipment," of the Standard Specifications and these Special Provisions. All equipment, tools, and machines used in the performance of this work shall be maintained in satisfactory working condition at all times to ensure a high quality of product.

The material shall be mixed by a self-propelled micro surfacing mixing machine which shall be a continuous flow mixing unit able to accurately deliver and proportion the aggregate, emulsified asphalt, mineral and field control additives, and water to a revolving multi-blade twin shafted mixer and discharge the mixed product on a continuous flow basis. The machine shall have sufficient storage capacity for aggregate, emulsified asphalt, mineral and field control additives, and water to maintain an adequate supply to the proportioning controls. The machine may be equipped with self-loading devices which provide for the loading of materials while continuing to lay micro-surfacing, thereby minimizing construction joints.

Individual volume or weight controls for proportioning each material to be added to the mix, i.e., aggregate, emulsified asphalt, mineral and field control additives, and water shall be provided and properly marked. These proportioning

devices are usually revolution counters or similar devices and are used in material calibration and determining the materials output at any time.

The emulsion pump shall be a heated positive displacement type.

The surfacing mixture shall be spread uniformly by means of a mechanical type spreader box attached to the mixer, equipped with paddles to agitate and spread the materials throughout the box. A front seal shall be provided to insure no loss of mixture at the road contact point. The rear seal shall act as final strike off and shall be adjustable. The mixture shall be spread to fill cracks and minor surface irregularities and leave a uniform skid resistant application of material on the surface. The spreader box and rear strike off shall be so designed and operated that a uniform consistency is achieved to produce a free flow of material to the rear strike off. The longitudinal joint where two passes join shall be neat appearing, uniform and lapped. All excess material shall be removed from the job site prior to opening the road. The spreader box shall have suitable means provided to side shift the box to compensate for variations in pavement width and longitudinal alignment. A rut box shall be available to prefill wheel ruts when necessary prior to overlay to eliminate puddles or runoff interruption. The box shall be readily adjustable from 4'-6' width hydraulically adjusted strike off screeds to attain maximum grade and profile.

Suitable surface cleaning equipment, traffic control equipment, hand tools and any support equipment shall be provided as necessary to perform the work.

Preparation of Surface

Before the micro surfacing is applied, the pavement surface shall be swept free of all debris and loose debris using power sweepers, cracks shall be filled, and digouts completed. The area to be micro surfaced shall be thoroughly cleaned of any loose aggregate and soil, particularly soil that is bound to the surface. The Contractor shall remove all existing weeds and plant materials in all the street sections that will receive micro surfacing. Removal of weeds and plant materials shall be done using a chemical weed killer (per manufacturer's recommendations) such as approved by the Engineer, and all these areas shall be thoroughly cleaned using compressors or other means acceptable to the Engineer.

All existing/temporary pavement markers, paint and thermoplastic shall be removed and disposed of by the Contractor. Said removal shall not occur sooner than two days prior to the micro surfacing is performed and shall be paid under Section 10-8, "Pavement Marker, Thermoplastic Marking, and Striping Removal," of these Special Provisions.

Manholes, valves, survey monuments, or miscellaneous frames and covers shall not receive a seal coat. These shall be protected as noted in Section 10-3, "Existing Facilities," of these Special Provisions. Any frame or cover seal coated shall be cleaned to the satisfaction of the Engineer and the cost for the cleaning shall be borne by the Contractor.

Placing

Placing shall conform to the provisions in Section 37-3.03D, "Placing," of the Standard Specifications and these Special Provisions.

The material shall be spread only when the road surface and atmospheric temperatures are at least 45° F and rising and the weather is not rainy and there is no forecast of temperatures below 32° F within 48 hours from the time of placement of the mixture.

The slurry mixture shall be uniformly spread by means of a controlled spreader box conforming to the requirements of Section 37-3.03C, "Mixing and Spreading Equipment," of the Standard Specifications.

Suitable methods shall be used by the contractor to protect the micro surface from traffic until the new surface will support traffic without damage.

The surface should be pre-wetted by fogging ahead of the spreader box when required by local conditions. The rate of application of the fog spray shall be adjusted during the day to suit temperatures, surface texture, humidity, and dryness of the pavement surface.

The micro surfacing mixture shall be of the desired consistency upon leaving the mixer and no additional materials should be added. A sufficient amount of material shall be carried in all parts of the spreader at all times so that a complete coverage is obtained. Overloading of the spreader shall be avoided. No lumping, balling, or unmixed aggregate shall be permitted.

No streaks, such as those caused by oversized aggregate, will be left in the finished surface. If excessive oversize develops, the job will be stopped until the contractor proves to the Engineer that the situation has been corrected.

No excessive buildup, uncovered areas or unsightly appearances shall be permitted on longitudinal or transverse joints. The Contractor shall provide suitable width spreading equipment to produce a minimum number of longitudinal joints throughout the project. When possible, longitudinal joints shall be placed on lane lines. Half passes and odd widths passes will be used only in minimum amounts. If half passes are used, they shall not be the last pass of any paved areas.

The micro surfacing mixture shall possess sufficient stability so that premature breaking of the material in the spreader box does not occur. The mixture shall be homogenous during and following mixing and spreading. It shall be free of excess water or emulsion and free of segregation of the emulsion and aggregate fines from the coarser aggregate.

Areas which cannot be reached with the mixing machine shall be surfaced using hand squeegees to provide complete and uniform coverage. The area to be hand worked shall be lightly dampened prior to mix placement. Care shall be exercised to leave no unsightly appearance from handwork. All handwork shall achieve the same type of finish as applied by the spreader box. All incidental handwork such as surfacing of driveway aprons and returns shall be done concurrently with the surfacing of the street proper.

Care shall be taken to insure straight lines along curbs and shoulders. No runoff on these areas will be permitted. Lines at intersections will be kept straight to provide a good appearance.

Weight tags shall be furnished to the Engineer for all materials delivered to the site including aggregates, emulsified asphalt for slurry and retardant.

The Contractor shall immediately remove any excess micro surfacing from the gutters. The Contractor shall not continue to the next street until all excess micro surfacing is removed as determined by the Engineer. No extension of time will be granted due to delay caused by non-compliance with this provision.

The Contractor shall furnish and maintain in good operating condition all tools and equipment necessary to do the work with a minimum of inconvenience to the public and shall employ sufficient personnel to operate all equipment efficiently and skillfully.

The Contractor shall refrain from using fuel or solvents of any kind for cleaning tools and equipment in such a manner as to permit spillage of diesel fuel or solvent on the pavement, curbs, gutters, parkways, or other adjoining areas.

The Contractor shall be responsible for maintaining a clear work area until the chip seal, micro surfacing, or slurry seal has set. If the newly installed micro surfacing or slurry surface is damaged, the Contractor shall remedy any non-compliant work at the Contractor's sole expense.

Final Sweeping

Self-propelled power brooms shall be used that are capable of cleaning the existing pavement and removing loose screenings without dislodging screenings set in the asphalt-rubber mixture. A minimum of three (3) sweepings shall be performed one day, seven days, and fourteen days after placement of the slurry seal or micro surfacing to remove all loose screenings.

8.9. TRAFFIC SIGNAL

Measurement and Payment

Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all of the work involved in compliance with the Plans, Specifications, and "Traffic Signals," of the Technical Specification, including but not limited to installation of detector loops, installation of new video detection system, traffic control, utility coordination, and all incidentals to complete this work, shall be included and paid for in the appropriate bid item price.

Bid Item #24	Remove Existing Loops and Video Detection System	L.S.
Bid Item #25	Furnish and Install New Video Detection Camera	Ea.

General

Traffic signals, street lighting, and electrical services shall conform to the provisions of Section 86, "Electrical Systems," of the Standard Specifications, the Town of Los Gatos Electrical Specifications and Details, the Standard Plans, and these Special Provisions.

Traffic signal work shall include the following:

Removal the existing video detection system (VIDS) at Los Gatos-Saratoga Road (Highway 9) and Alberto Way for the eastbound and westbound approaches, removal of the existing loops on the northbound and southbound approaches and replacement with a new video detection system per Iteris specifications for all four approaches.

Preservation of Existing Traffic Signal and Street Lighting Systems

Attention is directed to Section 86-1.06 of the Standard Specifications regarding the maintenance of existing electrical systems.

All existing traffic safety lighting shall be maintained throughout the project area until the new safety lighting is fully operable and approved by the Engineer.

Where new conductors/cables are to be installed in existing conduits, contractor shall remove and protect existing conductors, clean the conduits, and re-pull existing with new conductors together into existing conduits.

Signal Conductors and Wiring

Conductors for vehicle and pedestrian signals shall not run to a terminal block on a standard unless they are to be connected to a signal head that is mounted thereon, and any additional signal heads on other standards that are to be connected to these conductors shall be connected only in the pull box, not on the terminal block. Conductors for each signal mast arm shall run continuously from each signal head to the pull box and not enter the terminal block compartment.

Conductor insulation shall cover the entire length of the wire except near the ends of the termination points. All wires shall be clearly marked inside the controller cabinet designating the appropriate signal phase.

At least six feet of slack shall be provided in the pull box nearest each signal standard, for those conductors terminating in that standard; and 3 feet of slack shall be provided for each conductor in all other pull boxes. A minimum of six feet of slack shall be provided in the controller cabinet. The wire bundle entering the controller cabinet shall be coiled in the bottom of the cabinet.

Conductors No. 10 and smaller shall be solid copper traffic signal conductors Type USE, THW or TW with a minimum insulation thickness of 40 mil.

Detector Loops

Loop conductor shall be Type 2 loop wires. No splice is permitted.

Splice loop conductor to existing detector lead-in cable in existing pull boxes adjacent to existing detector handhole.

Sealant for filling loop slots shall be asphaltic emulsion sealant for asphaltic concrete pavement application as specified in the Standard Specifications.

The Contractor shall contact the Engineer 72-hours in advance of the work which will cut or damage any existing detector loop or lead-in wire. The Town will install appropriate timing in the traffic signal controller prior to the Contractor cutting the existing loops.

Failure to comply with these requirements shall result in a liquidated damage of \$500 per day for each traffic signal loop not replaced within 5 days following the damage. All liquidated damages in this Contract are cumulative.

Removing, Reinstalling, or Salvaging Electrical Equipment

Removing and/or salvaging of equipment shall conform to the provisions of Section 86-7.01, "Removing, Reinstalling, or Salvaging Electrical Equipment," of the Standard Specifications and the following:

All salvaged equipment shall be delivered to the Town of Los Gatos Service Center at 41 Miles Avenue. The Contractor shall coordinate with the Engineer forty-eight (48) hours in advance to arrange for acceptance of salvaged equipment.

The Contractor shall protect equipment from damage during removal, relocation, and re-installation.

Conductors

Identification stripe colors shall be permanently impregnated the conductor insulating jacket. No. 10 or smaller traffic signal conductors shall be solid copper with either:

- Type USE insulation with a minimum thickness of 1 mm (40 mils), or
- Type THW insulation with a minimum thickness of 1 mm (40 mils).

Splicing and Splicing Insulation

All connectors and terminals installed to the conductors, including those for detector circuits, shall be pressure connector crimp type and shall be soldered after being applied with the applicable tool recommended by the manufacturer of the connector.

Heat shrinkable insulating tubing shall be applied after completion of the splicing procedure. Insulation over the connector shall consist of a heat shrinkable, mastic lined, 1 mm minimum polyolefin cable sleeve, or cover, to which

heat shall be applied at a temperature greater than 120 degrees C with an electric hot air gun until the sleeve or cover shrinks and covers the connector and the mastic material has flowed completely around and between the conductors to form a waterproof insulation. The conductor insulation shall not be damaged due to application of the heat shrinkable insulation sleeve.

Identification Labeling

Identification shall be by T&B Ty-Rap Cable Ties No. TY553M, fastened to the conductors/cables in such a manner that they will not move along the conductors/cables. The flags on the Ty-Rap shall be marked with a Ty-Rap marking pen No. WT 163 M-1 (Black) or approved equal. All phase conductors shall be labeled by phase designation in the pull boxes nearest their termination and in the controller cabinet. Detector cables shall be labeled by channel designation in the pull boxes nearest their termination and in the controller cabinet. Detector cables shall be also labeled by phase designation in the controller cabinet nearest their termination at the detector amplifiers.

Bonding and Grounding

Bonding and grounding shall conform to Section 86-2.10, "Bonding and Grounding," of the Standard Specifications and the following:

Grounding jumper shall be attached by a 3/16 inch or larger brass bolt in the signal standard, lighting standard, service pedestal, or controller cabinet and shall be run to the conduit, ground rod, or bonding wire in adjacent pull box.

All metallic electrical equipment including, but not limited to, poles, metal conduit, service pedestals, controller cabinets, anchor bolts, foundation reinforcement, and metallic cable sheaths, shall be tied to ground electrical potential and shall be interconnected by means of copper conductors and clamps to form a single, grounded and electrically bonded system. Grounding of the electrical system shall be accomplished by means of approved 5/8-inch x 10-foot copper-clad steel or 3/4-inch x 10-foot galvanized steel ground rods installed in all cabinet foundations and in all pull boxes that contain conduits with equipment ground conductors as shown on the project plans. Ground rods shall extend above the finished cabinet foundation or grouted pull box bottom sufficiently to attach a ground clamp and #8 AWG bare copper equipment ground conductor.

All PVC conduit shall contain 1 bare stranded No. 8 AWG copper wire for bonding.

Iteris SmartCycle Bike Indicator Sign with Light

The Contractor shall furnish and install Iteris recommended SmartCycle Bike Indicator Sign with Light or approved equivalent on existing traffic signal pole. The Contractor shall relocate existing mounting bracket for pedestrian signal as needed to accommodate installation of indicator. The Contractor shall connect indicator and CAT 5E shielded cable into the traffic signal controller, including installation of any necessary equipment as needed for fully operational signal.

Video Detection Systems

The Contractor shall furnish and install Iteris recommended video camera or approved equivalent compatible within the existing Iteris Edge 2 Video Image Detection System (VIDS), a Pelco camera bracket, mounting kit, Iteris Edge 2-2 processor card, hybrid (power and coax) cable and ancillary equipment as specified by Iteris (or approved equals). Camera resolution, image size, and lens angle will be determined by the manufacturer based on optimum system performance. The environmentally sealed video camera with IR filter shall include heater, blower, enclosure, sun shield and mounting brackets, and have at least twelve user programmable detection zones. The camera shall be from the same manufacturer brand as the video image detection processing unit. All other necessary equipment for proper and complete operation within the existing VIDS shall be included.

This section describes the minimum requirements for providing a new camera to function within the existing Video Image Detection System (VIDS).

- A. Wiring between the new camera unit and the video detection system unit in the traffic signal cabinet shall be accomplished with a 3-conductor cable that will transmit video, data, and power. No other cable shall be required or allowed.
- B. All software and hardware, for installation, operation, and maintenance will be supplied along with necessary technical support upon setup. Ongoing technical support, and updated software revisions shall be provided to the local agency staff at no cost, for a period of no less than 3 years. Also, training by the manufacturer shall be provided at the convenience of local agency staff.
- C. A factory representative shall be present at the initial turn-on of the new camera to monitor setup, to provide assistance as needed, and to ensure proper operation.
- D. Camera installation shall be installed on the luminaire mast arm, signal mast arm, or signal pole as indicated on the project plans, with the manufacturers' recommended brackets. Camera brackets shall provide adjustments for both vertical and horizontal positioning of the camera. Camera attachments shall be designed to securely fasten the camera to the luminaire mast arm. Hardware shall be stainless steel or galvanized steel.
- E. The new camera shall be warranted against manufacturing defects in materials and workmanship for a period of two years from date of installation.

The Contractor shall mount the camera and shall terminate the video cables at the camera and in the cabinet.

8.10. PAVEMENT MARKER, THERMOPLASTIC MARKING, AND STRIPING REMOVAL

Measurement and Payment

Full compensation for furnishing all labor, materials, tools, flaggers, equipment, and all incidentals, and for doing all of the work in compliance with the Plans, Specifications, and "Pavement Marker, Thermoplastic Marking, and Striping Removal" of the Technical Specifications, including full compensation for any additive alternate work, shall be included and paid for in the appropriate bid item price.

Bid Item #26	Pavement Marker and Striping Removal	L.S.
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General

Pavement marker, markings and striping removal shall conform to the Plans and these Contract Documents.

Existing pavement markers, thermoplastic pavement markings, and striping, and paint markings and striping shall be removed by grinding prior to placement of the new surface. The grinder shall be specifically designed for the purpose of removing existing traffic stripes and markings and shall conform to the provisions of Section 84-9.03 of the Standard Specifications. Immediately upon removal of the markings and striping, temporary markings and striping shall be placed. Grinding operations shall be conducted to keep all removed pavement material from entering the storm drain system. The operation shall be controlled and contained so as not to impair the safe passage of traffic adjacent to the work site. Existing pavement markers shall be removed prior to placing the new surfacing (rubber chip seal, rubber cape seal, slurry seal, micro surfacing, and overlay).

The location of all striping, markings, and markers shall be marked out and documented by the Contractor prior to removal of any striping, markers, and/or thermoplastic material and before placing the new surfacing (rubber chip seal, rubber cape seal, slurry seal, micro surfacing, and overlay). This information shall be given to the Engineer for review prior to any striping removal.

All traffic striping and pavement markings (legends) covered by or removed prior to the surfacing or otherwise damaged by the Contractor's operations shall be replaced in kind in the same location and count.

Existing pavement striping, markings, and markers which are outside the work area are not to be removed and shall be protected by the Contractor. Any striping, markings, or markers which are to remain, which are damaged or rendered useless by the Contractor's operations, shall be restored by the Contractor to the Engineer's satisfaction and at the Contractor's sole expense.

The Contractor shall review all existing striping and pavement markings in the field prior to submitting a bid.

8.11. TEMPORARY PAVEMENT DELINEATION

Measurement and Payment

Full compensation for furnishing, placing, maintaining, replacing (regardless of the number of times it is required), and removing temporary traffic stripes, temporary markings, and temporary pavement markers shall be considered as included in the lump sum price paid for under "Traffic Control Requirements," and no additional compensation will be allowed therefor.

General

Temporary pavement delineation shall be furnished, placed, maintained and removed in accordance with the CA MUTCD, Section 12 of the Standard Specifications, and these Contract Documents. Nothing in these Contract Documents shall be construed as to reduce the minimum standards specified in the CA MUTCD or as relieving the Contractor from his responsibility as provided in Section 7-1.04, "Public Safety," of the Standard Specifications and these Contract Documents.

Lane line or centerline pavement delineation shall be provided at all times for travel lanes open to public traffic. Whenever the work covers or causes obliteration of pavement delineation, temporary pavement delineation or permanent traffic stripes shall be in place prior to opening the traveled way to public traffic.

Surfaces on which temporary pavement delineation is to be applied shall be cleaned of all dirt and loose material and shall be dry when the pavement delineation is applied.

The Contractor shall perform all work necessary to establish satisfactory alignment for temporary pavement delineation.

Temporary pavement delineation that is damaged from any cause during the progress of the work shall be immediately repaired or replaced at the Contractor's sole expense.

Temporary Striping

Whenever existing traffic striping or markings have been removed, paved over, or otherwise obliterated, temporary striping or markings shall be placed with paint on the same day as traffic striping and markings are removed. Slurry tabs may be used as the direction of the Engineer. If slurry tabs are allowed, they shall be provided as follows: Slurry tabs of the appropriate color as approved by the Engineer shall be installed and placed on twenty-four (24) foot intervals to delineate all four (4) inch traffic stripes. All channelization lines (solid eight (8) inch or twelve (12) inch line markings) shall be temporarily restored with a double row of slurry tabs as approved by the Engineer. All crosswalks shall be

restored with a double row of slurry tabs as approved by the Engineer. All pavement markers separating multiple turning lanes shall be replaced with slurry tabs on a ten (10) foot spacing.

Temporary traffic striping and marking shall be removed and replaced with permanent striping and markings as soon as the final pavement surface has cured sufficiently to receive the permanent traffic paint or thermoplastic. Permanent pavement markers shall be installed on the same day that the permanent traffic striping and markings are installed, however, the installation of pavement markers shall be done only after all traffic striping and markings are installed. The Contractor shall maintain the temporary striping until their permanent traffic striping and markings are placed.

When no longer required for the direction of public traffic, as determined by the Engineer, the temporary traffic stripe and pavement marking tape and temporary pavement markers, applied to existing pavement, the top layer of new pavements, or any other paved surface where the previously placed pavement delineation conflicts with the new traffic pattern, shall be removed and disposed of in accordance with Section 5-1.36C, "Nonhighway Facilities," of the Standard Specifications and all lines and marks used to establish the alignment for the temporary traffic stripes, pavement markings, and temporary pavement markers shall be removed from the pavement.

8.12. TRAFFIC STRIPING, PAVEMENT MARKINGS, AND MARKERS

Measurement and Payment

Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all of the work in compliance with the Plans, Specifications, and "Traffic Stripes, Pavement Markings, and Markers" of the Technical Specifications, shall be included and paid for in the appropriate bid item price.

Bid Item #27	Detail 2 Striping-Thermoplastic	L.F.
Bid Item #28	Detail 9 Striping-Thermoplastic	L.F.
Bid Item #29	Detail 22 Striping-Thermoplastic	L.F.
Bid Item #30	Detail 24 Striping-Thermoplastic	L.F.
Bid Item #31	Detail 27B Striping-Thermoplastic	L.F.
Bid Item #32	Detail 29 Striping-Thermoplastic	L.F.
Bid Item #33	Detail 38 Striping-Thermoplastic	L.F.
Bid Item #34	Detail 39 Striping-Thermoplastic	L.F.
Bid Item #35	12" Limit Line (Stop Line) (White)-Thermoplastic	L.F.
Bid Item #36	Crosswalk (White)-Thermoplastic	L.F.
Bid Item #37	Crosswalk-TLG Std. TR-I (White)-Thermoplastic	L.F.
Bid Item #38	Crosswalk-TLG Std. TR-I (Yellow)-Thermoplastic	L.F.

Bid Item #39	4" Hatch (Red)-Thermoplastic	L.F.
Bid Item #40	4" Hatch (White)-Thermoplastic	L.F.
Bid Item #41	4" Hatch (Yellow)-Thermoplastic	L.F.
Bid Item #42	6" Hatch (White)-Thermoplastic	L.F.
Bid Item #43	STOP Legend-Thermoplastic	Ea.
Bid Item #44	KEEP Legend-Thermoplastic	Ea.
Bid Item #45	CLEAR Legend-Thermoplastic	Ea.
Bid Item #46	25 Legend-Thermoplastic	Ea.
Bid Item #47	Employee Permit Parking Legend-Thermoplastic	Ea.
Bid Item #48	Type I Arrow-Thermoplastic	Ea.
Bid Item #49	Type IV (L) Arrow-Thermoplastic	Ea.
Bid Item #50	Type IV (R) Arrow-Thermoplastic	Ea.
Bid Item #51	Type VII (L) Arrow-Thermoplastic	Ea.
Bid Item #52	On-Street Parking "T"-TLG Std. TR-L-Thermoplastic	Ea.
Bid Item #53	Off-Street Parking Double Stripe-TLG Std. ST-264-Thermoplastic	Ea.
Bid Item #54	Accessible Parking-TLG Std. ST-265-Thermoplastic	Ea.
Bid Item #55	Blue Curb	L.F.
Bid Item #56	Red Curb	L.F.
Bid Item #57	White Curb	L.F.
Bid Item #58	School Bus Only Curb Marking	Ea.
Bid Item #59	Green Back Bike Lane Symbol with Arrow Legend TLG-Std. TR-A-Thermoplastic	Ea.
Bid Item #60	Green Bike Lane-Thermoplastic	L.F.

Bid Item #61	Dashed Green Bike Lane-Thermoplastic	L.F.
Bid Item #62	Shared Roadway Bicycle Marking-TLG Std. TR-G-Thermoplastic	Ea.
Bid Item #63	Blue Reflective Pavement Marker	Ea.
Bid Item #A1.11	12" Limit Line (Stop Line) (White)-Thermoplastic	L.F.
Bid Item #A1.12	STOP Legend-Thermoplastic	Ea.
Bid Item #A1.13	Blue Reflective Pavement Marker	Ea.

General

Painting traffic stripes (traffic lines) and pavement markings (legends) shall conform to the CA MUTCD, Section 84 of the Standard Specifications, the striping tie out plans as generated by the Contractor and approved by the Engineer under the Plans, detail drawings as shown in **Attachment B**, and “Pavement Marker, Thermoplastic Marking and Striping Removal,” of these Contract Documents. Traffic Stripes and marking shall be installed as shown on the approved striping tie-out plans or as directed by the Engineer.

All traffic stripes and pavement markings shall be laid out in the field by the Contractor and reviewed and approved by the Engineer five (5) working days prior to any final installation. Any striping and/or marking installed by the Contractor that the Engineer has not pre-approved, and that the Engineer determines are installed improperly or in the wrong locations, shall be removed and replaced to the satisfaction of the Engineer at the Contractor’s sole expense.

Paint for Traffic Stripes

Paint for the traffic stripes, curb painting, and pavement markings shall be Rapid Dry Water Borne paint in accordance with Sections 84, “Markings,” of the Standard Specifications and shall be applied in two coats.

Paint shall be applied after the final pavement surface has cured sufficiently to receive the permanent traffic paint. Surfaces shall be cleaned of all dirt and loose material and shall be dry when the paint is applied.

Curbs shall be painted at locations shown on the Plans and as directed by the Engineer. Application shall consist of two coats of traffic paint of the appropriate color applied to the face and top of the curb.

Pavement markings shall be installed with stencils belonging to the Contractor that are determined to be identical to the Town’s stencils.

The Contractor shall install the first coat of the paint within seven (7) calendar days of the final resurfacing. After fourteen (14) calendar days, the second coat of paint shall be applied after the final resurfacing.

Raised Pavement Markers

Pavement markers shall conform to the CA MUTCD, Section 81, “Miscellaneous Traffic Control Devices,” of the Standard Specifications, and these Contract Documents. All non-reflective pavement markers shall be ceramic. Plastic pavement markers shall not be allowed.

Adhesive shall be hot melt bituminous adhesive conforming Section 81, "Miscellaneous Traffic Control Devices," of the Standard Specifications and these Contract Documents.

Markers shall not be placed on new hot mix asphalt surface until the surface has been open to public traffic for a period of not less than seven days when hot melt bituminous adhesive is used, and not less than 14 days when epoxy adhesive is used. Placement of pavement markers shall be completed within three weeks of application of the new resurfacing of the respective roadway.

All pavement markers in place (outside the limits of the work) shall be protected from damage and shall be clean and undamaged after completion of the project. Any damage to the newly placed or existing markers due to the failure of the Contractor to protect the work, and correction of errors, shall be repaired by the Contractor at no additional cost.

Blue reflective (Caltrans Type BB) fire hydrant pavement markers shall be installed conforming to the provisions of the CA MUTCD Section 3B.11, "Raised Pavement Markers," and Figure 3B-102 (CA).

A Certificate of Compliance shall be furnished as specified in Section 6-2.03C, "Certificates of Compliance," of the Standard Specifications for reflective pavement markers. Said certificate shall also certify that the reflective pavement markers conform to the prequalified testing and approval of Caltrans, division of Traffic Operations, and where manufactured in accordance with the approved quality control program.

Thermoplastic Traffic Stripe and Pavement Marking

Thermoplastic traffic stripes (traffic lines) and pavement markings shall be applied in conformance with Section 84, "Markings," of the Standard Specifications and these Contract Documents.

Concrete pavement shall be painted with a primer before thermoplastic placement.

Paint shall be applied after the final pavement surface has cured sufficiently to receive the permanent traffic paint. Surfaces shall be cleaned of all dirt and loose material and shall be dry when the paint is applied.

Thermoplastic material shall be free of lead and chromium and shall conform to the requirements in State Specification PTH-02ALKYD or PTH-02SPRAY of the Standard Specifications.

Retroreflectivity of the thermoplastic traffic stripes and pavement markings shall conform to the requirements in ASTM D6359-99. White thermoplastic traffic stripes and pavement markings shall have a minimum initial retroreflectivity of 250 mcd/m²/lux. Yellow thermoplastic traffic stripes and pavement markings shall have a minimum initial retroreflectivity of 175 mcd/m²/lux.

The color for green back symbols shall meet FHWA specifications for "green."

Where striping joins existing striping, as shown on the Plans, the Contractor shall begin and end the transition from the existing striping pattern into or from the new striping pattern a sufficient distance to ensure continuity of the striping pattern.

Payment for crosswalks shall be measured from the edge of curb or edge of gutter, whichever is less, in linear feet, and shall include the ladder striping and no additional compensation shall be allowed therefore.

Thermoplastic traffic stripes and pavement markings shall be free of runs, bubbles, craters, drag marks, stretch marks, and debris. Thermoplastic shall be extruded and placed in one coat and shall be placed five days after the final surfacing. Sprayable thermoplastic is not allowed after the installation of surface treatments (slurry seal, chip seal, or micro surfacing). Longitudinal limit line shall be white and 12 inches in width. All pavement striping and markings shall be white unless otherwise indicated.

Application

Use preheaters with mixers having 360-degree rotation to preheat the thermoplastic material. Apply the thermoplastic in a single uniform layer by extrusion method. Completely coat and fill voids in the pavement surface with the thermoplastic.

Extruded Thermoplastic

Apply extruded thermoplastic at a temperature from 400°F to 425°F unless a different temperature is instructed by the manufacturer. Apply extruded thermoplastic for a traffic stripe at a rate of at least 0.20 lbs./ft. of 4-inch wide solid stripe. The applied thermoplastic traffic stripe must be at least 0.060 inch thick. An applied thermoplastic pavement marking must be from 0.100 to 0.150 inches thick. Apply glass beads to the surface of the molten thermoplastic at a rate of at least 8 lbs./100 sq. ft.

8.13. WHEEL STOPS

Full compensation for furnishing all labor, materials, tools, equipment, traffic control, and incidentals for doing all the work, including the removal and disposal of existing wheel stops, rebar, concrete wheel stops, and installation, involved in compliance with the Plans, Specifications, and "Wheel Stop" of the Technical Specifications, shall be included and paid for in the appropriate bid item price.

Bid Item #64	Remove Existing Concrete and Wood Wheel Stops	L.S.
Bid Item #65	Install New 3' Wheel Stop	Ea.

General

The Contractor shall remove and dispose of the existing wheel stops. Existing wheel stops may be concrete, rubber, or wood material. The Contractor shall furnish all the necessary supervision, labor, materials, construction tools, and equipment to complete the removal and proper disposal of wheels stop at locations specified by the Engineer. Debris shall be hauled off and disposed of the same working day in which the materials was generated. All costs associated with removing and disposing of wheels shall be borne by the Contractor and no additional compensation shall be allowed therefor.

Materials

Wheel stops shall be precast concrete with a minimum strength of 3, 500 psi, designed with H20 loading rating, and have two holes to attach to concrete or asphalt surfaces. Wheel stops shall be installed at locations as directed by the Engineer. Wheel stops shall be installed using two pieces of rebar, centered between the perpendicular parking stall lines. Wheel stops shall be installed per the manufacturer's recommendations. The Contractor shall submit the wheel stop for review.

8.14. SIGNAGE

Measurement and Payment

Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for performing all the work involved in compliance with the Plans, Specifications, and "Signage," of the Technical Specifications, shall be included and paid for in the appropriate bid item price.

Bid Item #66	Remove and Salvage Signs on Existing Post	Ea.
Bid Item #67	Install New Sign on Existing Post	Ea.

General

Work shall conform to Section 56, "Signs," of the Standard Specifications, the Plans, the CA MUTCD, and these Special Provisions except as noted herein.

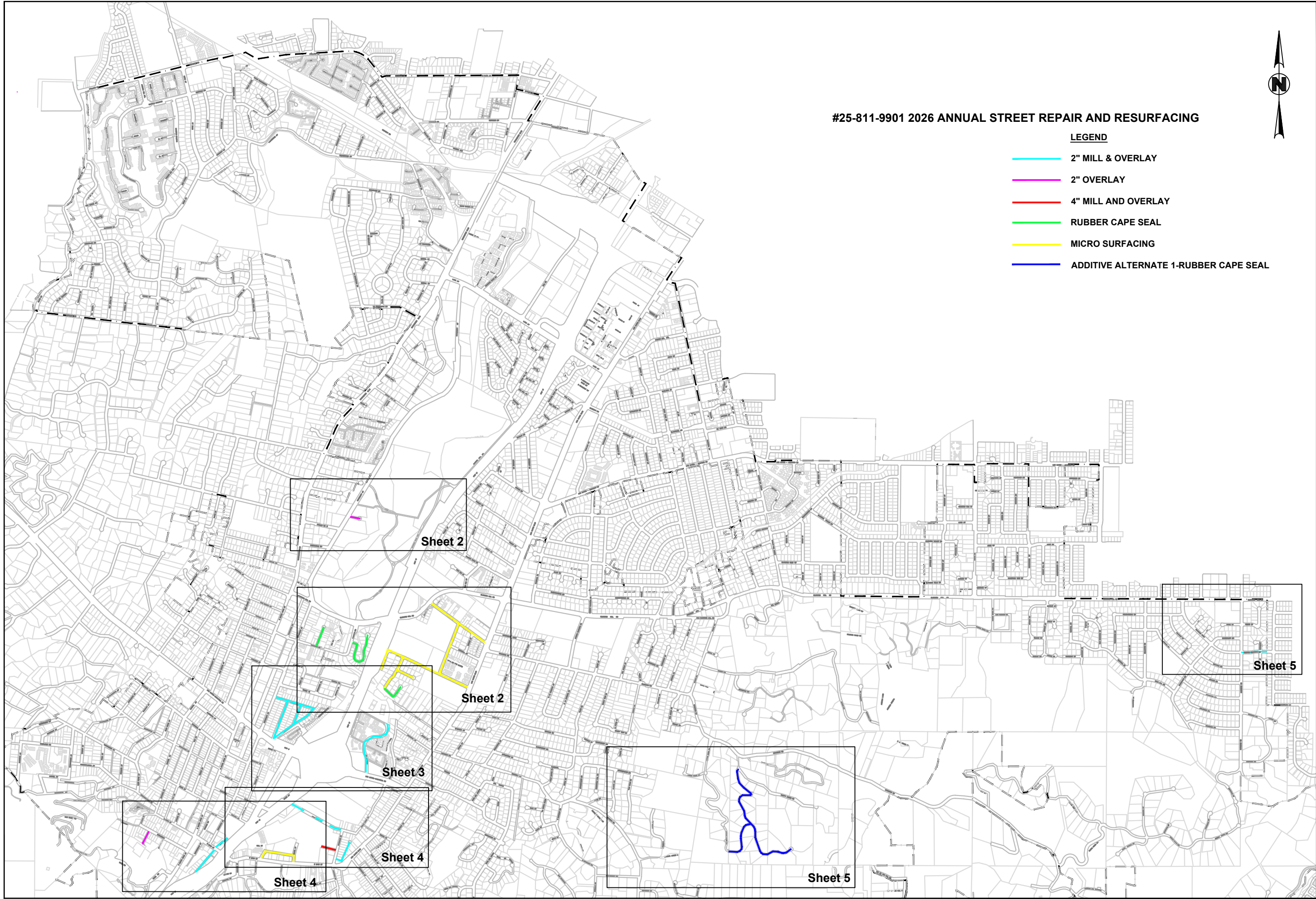
The Contractor shall inventory existing sign locations prior to removal. Signs to be salvaged shall be removed, cleaned, and stored by the Contractor unless another location is specified. For locations where the Contractor is to remove and/or relocate existing signposts as shown on the Plans, the Contractor shall also remove the existing foundation and/or footing. Voids created by the removal shall be backfilled with cement slurry (2-sack mix) where concrete pavement is to be installed. Voids created by the removal of the signposts not in the concrete pavement area shall be backfilled with soil and compacted to at least 90% relative compaction or as specified by the Engineer.

The street signs that are obstructing the construction work shall be removed and signs shall be installed by the Contractor. New signs shall be placed on a new signpost. Prior to installation, the Engineer shall approve the location of the signs. The Contractor shall call Underground Service Alert (USA) at 1-800-227-2600 prior to digging for the sign pole installation. The Contractor shall neatly core the existing sidewalk, concrete pavement, etc. and shall install the signposts per the Town Standard Plans. The Contractor shall provide all fasteners required to install all signs as indicated on the Plans and as directed by the Engineer.

The Contractor, at the Contractor's sole expense, shall repair materials to be salvaged that are damaged as a result of the Contractor's operations or install a new sign per the Town of Los Gatos Standard Plans to the satisfaction of the Engineer.

The Contractor shall install the sign at the following location:

Brooklyn Avenue at Pleasant Street	Not A Through Street
------------------------------------	----------------------



#25-811-9901 2026 ANNUAL STREET REPAIR AND RESURFACING

LEGEND

- 2" MILL & OVERLAY
- 2" OVERLAY
- 4" MILL AND OVERLAY
- RUBBER CAPE SEAL
- MICRO SURFACING
- ADDITIVE ALTERNATE 1-RUBBER CAPE SEAL



#25-811-9901 2026 ANNUAL STREET
 REPAIR AND RESURFACING
 KEY MAP

Sheet 2

Sheet 2

Sheet 3

Sheet 4

Sheet 4

Sheet 5

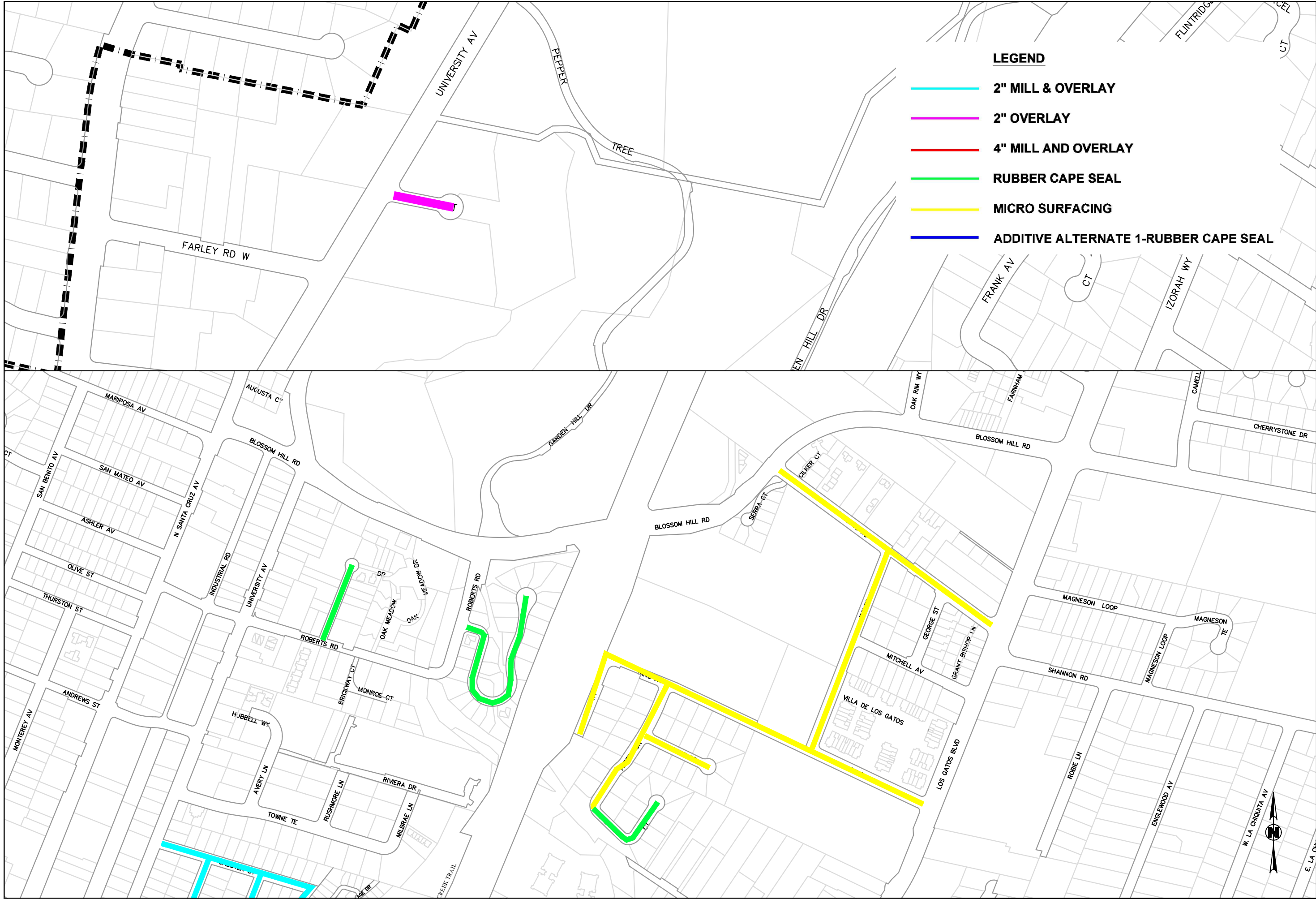
Sheet 5

Revisions	
No.	Description

Date: 1/8/26	Scale: NTS	Design: [Blank]	Drawn: J. CHH

Drawing Number: **1**

1 OF **5**



LEGEND

- 2" MILL & OVERLAY
- 2" OVERLAY
- 4" MILL AND OVERLAY
- RUBBER CAPE SEAL
- MICRO SURFACING
- ADDITIVE ALTERNATE 1-RUBBER CAPE SEAL

TOWN OF LOS GATOS
PARKS & PUBLIC WORKS
 41 MILES AVENUE
 LOS GATOS, CA 95030

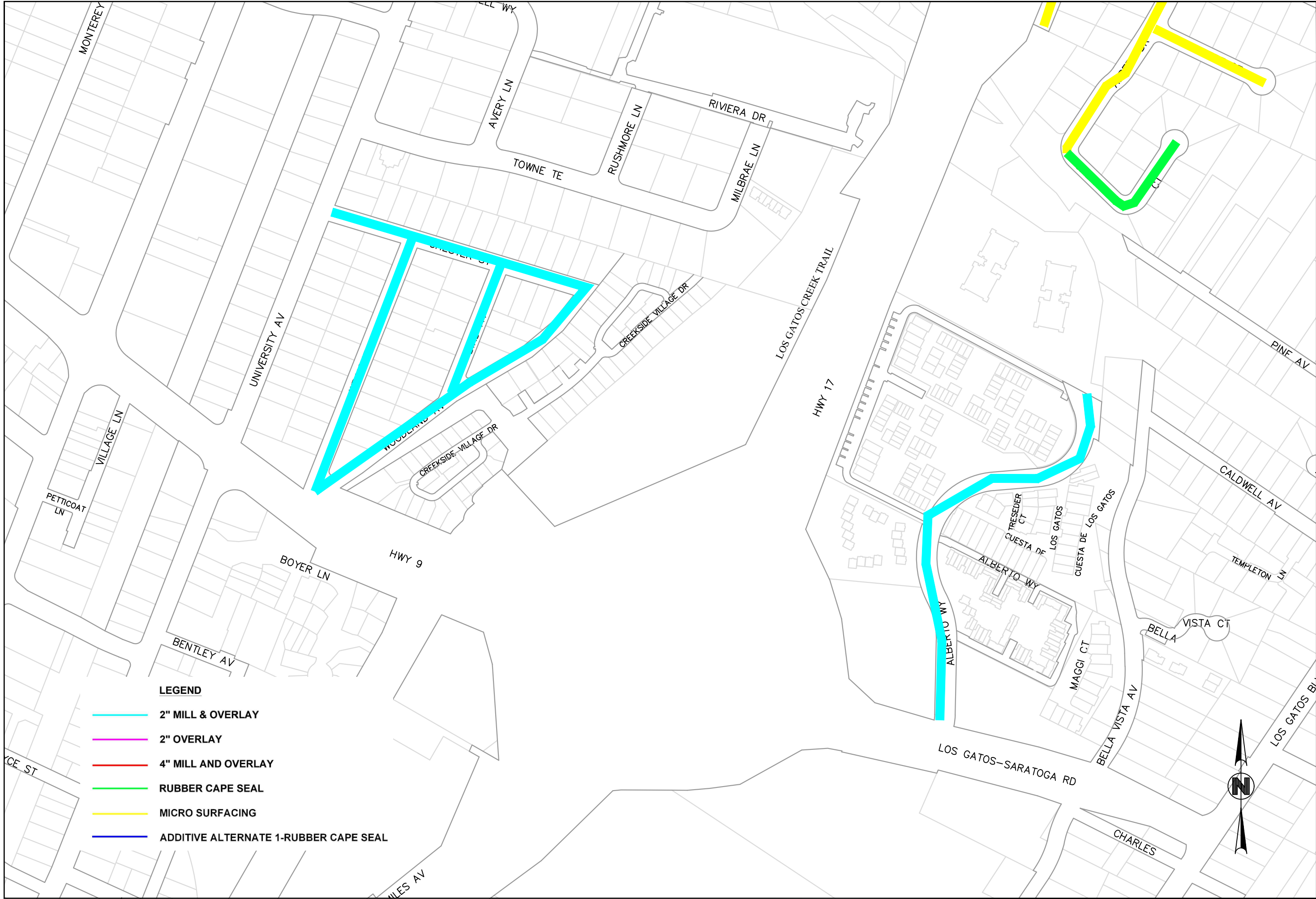


**#25-811-9901 2026 ANNUAL STREET
 REPAIR AND RESURFACING
 KEY MAP**

Revisions	
No.	Description

Base: 1/8/26	Scale: NTS	Design: [Blank]	Drawn: J CHIN	Approved: [Blank]	Job No: [Blank]
Drawing Number:		2			
2	OF	5			





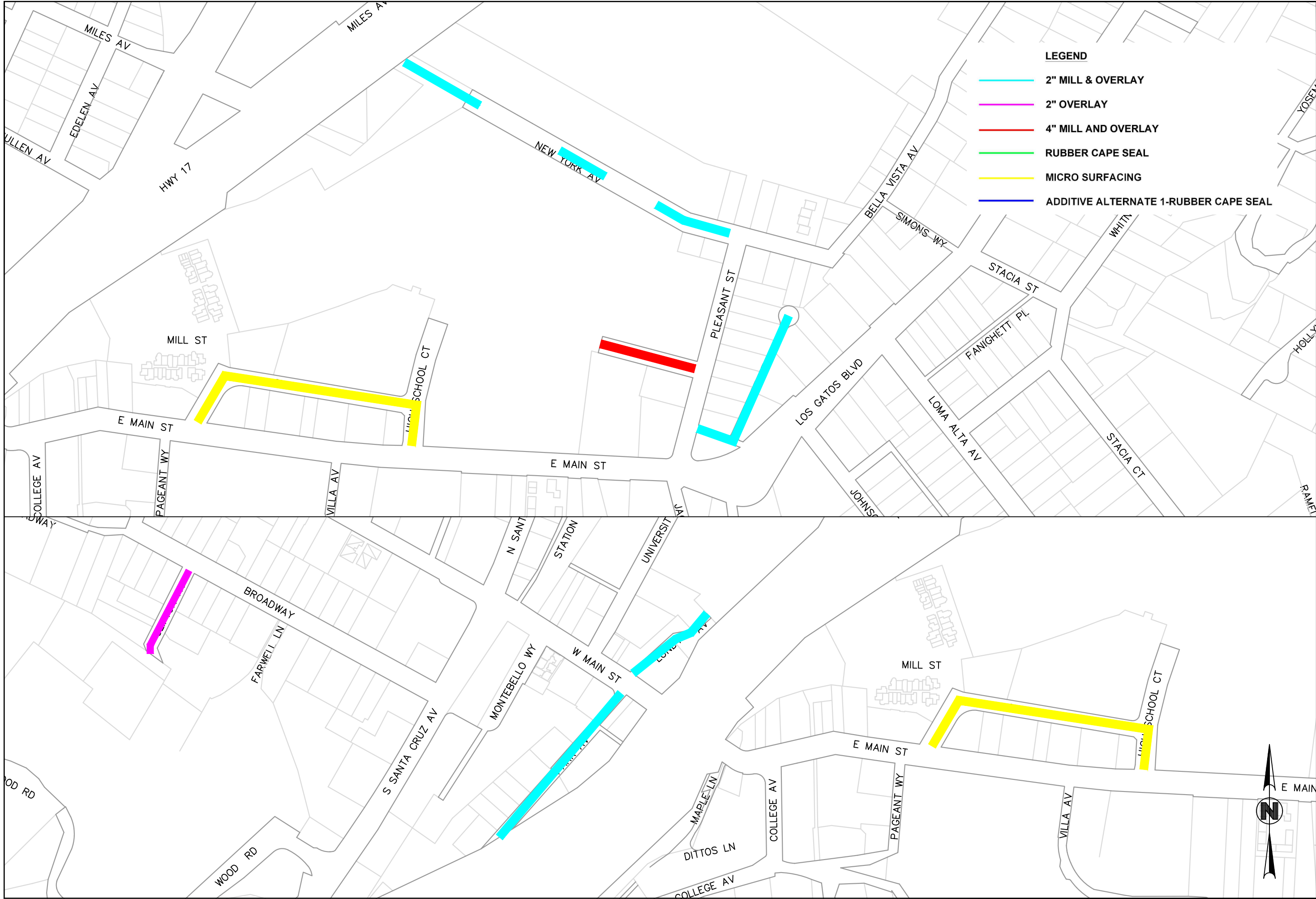
LEGEND

- 2" MILL & OVERLAY
- 2" OVERLAY
- 4" MILL AND OVERLAY
- RUBBER CAPE SEAL
- MICRO SURFACING
- ADDITIVE ALTERNATE 1-RUBBER CAPE SEAL



**#25-811-9901 2026 ANNUAL STREET
 REPAIR AND RESURFACING
 KEY MAP**

Revisions	No.	No.	1/8/26
Scale	NTS	Design	NTS
Drawn	J. CHIN	Approved	
Job No.			
Drawing Number	3	OF	5



LEGEND

- 2" MILL & OVERLAY
- 2" OVERLAY
- 4" MILL AND OVERLAY
- RUBBER CAPE SEAL
- MICRO SURFACING
- ADDITIVE ALTERNATE 1-RUBBER CAPE SEAL

TOWN OF LOS GATOS
PARKS & PUBLIC WORKS
 41 MILES AVENUE
 LOS GATOS, CA 95030



**#25-811-9901 2026 ANNUAL STREET
 REPAIR AND RESURFACING
 KEY MAP**



Revisions	
No.	Description

Date: 1/8/26	Scale: NTS	Design: [Signature]	Drawn: J CHH	Approved: [Signature]	Job No:
Drawing Number: 4					
4	OF	5			

Town of Los Gatos
 #25-811-9901 2026 Annual Street Repair and Resurfacing
 Street List

Street	Begin Location	End Location	PCI	Type	Length (L.F.)	Width (L.F.)	Total Area (S.F.)	Adjust Sanitary Sewer Manhole to Grade (Ea.)	Adjust Storm Drain Manhole to Grade (Ea.)	Adjust Survey Monument Cover to Grade (Ea.)	Adjust Water Valve Cover to Grade (Ea.)	Adjust Water Meter Box to Grade (Ea.)
Base Bid:												
ALBERT CT	ALBERT DR	END	76	MS	367	34	12,478	1	1	1		
ALBERT DR	NINO AV	CALFHILL CT	73	RC	724	33	23,892					
ALBERTO WY	HWY 9	440' NORTH OF LOS GATOS SARATOGA RD	29	2MO	440	30	13,200	4		9	13	
ALBERTO WY	440' NORTH OF LOS GATOS SARATOGA RD	END	69	2MO	850	30	25,500					
ALMOND BLOSSOM LN	HARWOOD RD	CITY LIMITS	42	2MO	490	33	16,170	2	2	4	2	
BIRD AV	WOODLAND AV	CHESTER ST	40	2MO	380	32	12,160					
BROOKLYN AV	PLEASANT	CHICAGO AVE	23	4MO	325	42	13,650					
CALFHILL CT	ALBERT DR	END	65	RC	486	28	13,608	1		1		
CHESTER ST	WOODLAND AV	UNIVERSITY AV	30	2MO	790	32	25,280	4	2		6	
CHURCH ST	HIGH SCHOOL CT	E MAIN ST	75	MS	860	40	34,400					
CLIFTON AV	BROADWAY	END	32	2O	390	25	9,750	1			2	
COOPER CT	UNIVERSITY AV	END	39	2O	244	36	8,784		1	1		
FISHER AV	ROBERTS RD	NINO AV	76	MS	1,030	37	38,110	2			2	
FORREST AV	ROBERTS AV	OAK MEADOW DR	48	RC	433	40	17,320	1		1		
HIGH SCHOOL CT	E MAIN ST	CHURCH ST	76	MS	163	37	6,031					
LUNDY LN	W MAIN ST	END	22	2MO	240	20	4,800				5	
NEW YORK AV	PLEASANT ST	END (NW)	41	2MO	404	50	20,200	1	2		6	
NINO AV	LOS GATOS BL	FISHER AV	81	MS	628	33	20,724					
NINO AV	FISHER AV	NINO WY	79	MS	1,110	30	33,300					
NINO WY	NINO AV	END	87	MS	405	29	11,745					
OHLONE CT	ROBERTS RD	END	80	MS	1,136	29	32,944	1	1			
PARK AV	W. MAIN ST	END	37	2MO	675	65	43,875	2			7	5
ROBERTS RD EAST	BLOSSOM HILL RD	LOS GATOS BL	78	MS	1,341	37	49,617					
TERRACE CT	PLEASANT	END	22	2MO	515	23	11,845	4				
WOODLAND AV	CHESTER ST	WRAIGHT AV	36	2MO	936	23	21,528	2		1	4	
WRAIGHT AV	CHESTER ST	HWY 9	41	2MO	885	31	27,435	1	1	1	4	
N Santa Cruz Ave at E Main St												
E Main St at College Ave												
N Santa Cruz Ave at Andrews St												
N Santa Cruz Ave at Almendra Ave/Petticoat Ln												
N Santa Cruz Ave at Bachman Ave												
N Santa Cruz Ave at Royce St/Nicholson Ave												
N Santa Cruz Ave at Grays Ln												
N Santa Cruz Ave at Bean Ave												
N Santa Cruz Ave at Elm St												
N Santa Cruz south of Elm St Midblock												
N Santa Cruz north of E Main St Midblock												

Town of Los Gatos
 #25-811-9901 2026 Annual Street Repair and Resurfacing
 Street List

Street	Begin Location	End Location	PCI	Type	Length (L.F.)	Width (L.F.)	Total Area (S.F.)	Adjust Sanitary Sewer Manhole to Grade (Ea.)	Adjust Storm Drain Manhole to Grade (Ea.)	Adjust Survey Monument Cover to Grade (Ea.)	Adjust Water Valve Cover to Grade (Ea.)	Adjust Water Meter Box to Grade (Ea.)
Mullen Ave at University Ave												
University Ave at Elm St												
University Ave between Main St and Elm St Midblock												
Winchester Blvd at Albright Wy												
Winchester Blvd at Knowles Dr												
E Main St at Montebello Wy												
University Ave at Royce St												
Stacia St at Los Gatos Blvd												
Magneson Loop at Los Gatos Blvd												
University Ave at Bentley Ave												

ADDITIVE ALTERNATE 1:												
HILL TOP DR	WOODED VIEW DR	END (#135)	55	RC	868	21	18,228					
WOODED VIEW DR	HAPPY ACRES RD	HILL TOP DR	63	RC	1,426	20	28,520	10		9	1	
WOODED VIEW DR	HILL TOP DR	END	40	RC	1,314	20	26,280					

Town of Los Gatos
 #25-811-9901 2026 Annual Street Repair and Resurfacing
 Street List

Street	Adjust Gas Valve to Grade (Ea.)	Adjust Sanitary Sewer Clean Out to Grade (Ea.)	Adjust Vault To Grade (Ea.)	Install New Christy G05 Monument Cover (Ea.)	Detail 2 Striping (L.F.)	Detail 9 Striping (L.F.)	Detail 22 Striping (L.F.)	Detail 24 Striping (L.F.)	Detail 27B Striping (L.F.)	Detail 29 Striping (L.F.)	Detail 38 Striping (L.F.)	Detail 39 Striping (L.F.)	12" Limit Line (Stop Line) (White) (L.F.)	Crosswalk (White) (L.F.)	Crosswalk-TLG Std. TR-I (White) (L.F.)	Crosswalk-TLG Std. TR-I (Yellow) (L.F.)
Base Bid:																
ALBERT CT																
ALBERT DR													15			
ALBERTO WY							1,070				100			110		
ALBERTO WY																
ALMOND BLOSSOM LN													20	120		
BIRD AV																
BROOKLYN AV			1										22			300
CALFHILL CT																
CHESTER ST				2									20			
CHURCH ST				1		520	170						39	312		
CLIFTON AV																
COOPER CT													18			
FISHER AV		1					130		105	100	225		58			764
FORREST AV													20			
HIGH SCHOOL CT							30						20			260
LUNDY LN			1										10			
NEW YORK AV													20			
NINO AV							150				105		36			340
NINO AV																
NINO WY																
OHLONE CT													20			
PARK AV	2												59			
ROBERTS RD EAST					500		595			80	380	470	47			
TERRACE CT	3	3														
WOODLAND AV							82						38		196	
WRAIGHT AV	1						40	40					20		600	
N Santa Cruz Ave at E Main St															1,904	
E Main St at College Ave															720	
N Santa Cruz Ave at Andrews St															1,760	
N Santa Cruz Ave at Almendra Ave/Petticoat Ln															1,360	
N Santa Cruz Ave at Bachman Ave															1,600	
N Santa Cruz Ave at Royce St/Nicholson Ave															1,040	
N Santa Cruz Ave at Grays Ln															320	
N Santa Cruz Ave at Bean Ave															480	
N Santa Cruz Ave at Elm St															280	
N Santa Cruz south of Elm St Midblock															200	
N Santa Cruz north of E Main St Midblock															200	

Town of Los Gatos
 #25-811-9901 2026 Annual Street Repair and Resurfacing
 Street List

Street	Adjust Gas Valve to Grade (Ea.)	Adjust Sanitary Sewer Clean Out to Grade (Ea.)	Adjust Vault To Grade (Ea.)	Install New Christy G05 Monument Cover (Ea.)	Detail 2 Striping (L.F.)	Detail 9 Striping (L.F.)	Detail 22 Striping (L.F.)	Detail 24 Striping (L.F.)	Detail 27B Striping (L.F.)	Detail 29 Striping (L.F.)	Detail 38 Striping (L.F.)	Detail 39 Striping (L.F.)	12" Limit Line (Stop Line) (White) (L.F.)	Crosswalk (White) (L.F.)	Crosswalk-TLG Std. TR-I (White) (L.F.)	Crosswalk-TLG Std. TR-I (Yellow) (L.F.)
Mullen Ave at University Ave															240	
University Ave at Elm St															800	
University Ave between Main St and Elm St Midblock															240	
Winchester Blvd at Albright Wy															1,080	
Winchester Blvd at Knowles Dr															1,480	
E Main St at Montebello Wy															720	
University Ave at Royce St															544	
Stacia St at Los Gatos Blvd															256	
Magneson Loop at Los Gatos Blvd															448	
University Ave at Bentley Ave															320	
ADDITIVE ALTERNATE 1:																
HILL TOP DR				1									20			
WOODED VIEW DR													26			
WOODED VIEW DR																

Town of Los Gatos
 #25-811-9901 2026 Annual Street Repair and Resurfacing
 Street List

Street	4" Hatch (Red) (L.F.)	4" Hatch (White) (L.F.)	4" Hatch (Yellow) (L.F.)	6" Hatch (White) (L.F.)	STOP Legend (Ea.)	KEEP Legend (Ea.)	CLEAR Legend (Ea.)	25 Legend (Ea.)	Employee Permit Parking Legend (Ea.)	Type I Arrow (Ea.)	Type IV (L) Arrow (Ea.)	Type IV (R) Arrow (Ea.)	Type V Arrow (Ea.)	Type VII (L) Arrow (Ea.)	On-Street Parking "T"-TLG Std. TR-L (Ea.)	Off-Street Parking Double Stripe-TLG Std. ST-264 (Ea.)
Base Bid:																
ALBERT CT																
ALBERT DR					1											
ALBERTO WY												2		2		
ALBERTO WY																
ALMOND BLOSSOM LN					1											
BIRD AV																
BROOKLYN AV					1										1	25
CALFHILL CT																
CHESTER ST					1											
CHURCH ST					2										48	
CLIFTON AV																
COOPER CT					1											
FISHER AV					3			1			2	2				
FORREST AV					1											
HIGH SCHOOL CT					1										5	
LUNDY LN					1										6	
NEW YORK AV	1,235				1										4	32
NINO AV					2	1	1					1		2		
NINO AV																
NINO WY																
OHLONE CT					1											
PARK AV		361			1				3							39
ROBERTS RD EAST		1,369		630	3			3			2	9				
TERRACE CT																
WOODLAND AV			120		1					2		1				
WRAIGHT AV			43		1					1		1				
N Santa Cruz Ave at E Main St																
E Main St at College Ave																
N Santa Cruz Ave at Andrews St																
N Santa Cruz Ave at Alameda Ave/Petticoat Ln																
N Santa Cruz Ave at Bachman Ave																
N Santa Cruz Ave at Royce St/Nicholson Ave																
N Santa Cruz Ave at Grays Ln																
N Santa Cruz Ave at Bean Ave																
N Santa Cruz Ave at Elm St																
N Santa Cruz south of Elm St Midblock																
N Santa Cruz north of E Main St Midblock																

Town of Los Gatos
 #25-811-9901 2026 Annual Street Repair and Resurfacing
 Street List

Street	4" Hatch (Red) (L.F.)	4" Hatch (White) (L.F.)	4" Hatch (Yellow) (L.F.)	6" Hatch (White) (L.F.)	STOP Legend (Ea.)	KEEP Legend (Ea.)	CLEAR Legend (Ea.)	25 Legend (Ea.)	Employee Permit Parking Legend (Ea.)	Type I Arrow (Ea.)	Type IV (L) Arrow (Ea.)	Type IV (R) Arrow (Ea.)	Type V Arrow (Ea.)	Type VII (L) Arrow (Ea.)	On-Street Parking "T"-TLG Std. TR-L (Ea.)	Off-Street Parking Double Stripe-TLG Std. ST-264 (Ea.)
Mullen Ave at University Ave																
University Ave at Elm St																
University Ave between Main St and Elm St Midblock																
Winchester Blvd at Albright Wy																
Winchester Blvd at Knowles Dr																
E Main St at Montebello Wy																
University Ave at Royce St																
Stacia St at Los Gatos Blvd																
Magneson Loop at Los Gatos Blvd																
University Ave at Bentley Ave																
ADDITIVE ALTERNATE 1:																
HILL TOP DR					1											
WOODED VIEW DR					1											
WOODED VIEW DR																

Town of Los Gatos
 #25-811-9901 2026 Annual Street Repair and Resurfacing
 Street List

Street	Accessible Parking-TLG Std. ST-265 (Ea.)	Blue Curb (L.F.)	Red Curb (L.F.)	White Curb (L.F.)	School Bus Only Curb Marking (Ea.)	Green Back Bike Lane Symbol with Arrow Legend TLG-Std. TR-A (Ea.)	Green Bike Lane (L.F.)	Dashed Green Bike Lane (L.F.)	Roadway Bicycle Marking-TLG Std. TR-G (Ea.)	Blue Reflective Pavement Marker (Ea.)	Install New 3' Wheel Stop (Ea.)	Remove and Salvage Signs on Existing Post (Ea.)	Install New Sign on Existing Post (Ea.)
Base Bid:													
ALBERT CT										1			
ALBERT DR										2			
ALBERTO WY			1,315							6			
ALBERTO WY													
ALMOND BLOSSOM LN										1			
BIRD AV			60										
BROOKLYN AV											25	1	1
CALHILL CT										1			
CHESTER ST										1			
CHURCH ST			223							2			
CLIFTON AV													
COOPER CT													
FISHER AV			370	85	4								
FORREST AV													
HIGH SCHOOL CT			40	52	1								
LUNDY LN													
NEW YORK AV			503							1	32		
NINO AV			605							2			
NINO AV													
NINO WY													
OHLONE CT			155							2			
PARK AV	1	40	160							1			
ROBERTS RD EAST			727	100		2	825	160	16	2			
TERRACE CT													
WOODLAND AV			80	60						2			
WRAIGHT AV			190	180									
N Santa Cruz Ave at E Main St													
E Main St at College Ave													
N Santa Cruz Ave at Andrews St													
N Santa Cruz Ave at Almendra Ave/Petticoat Ln													
N Santa Cruz Ave at Bachman Ave													
N Santa Cruz Ave at Royce St/Nicholson Ave													
N Santa Cruz Ave at Grays Ln													
N Santa Cruz Ave at Bean Ave													
N Santa Cruz Ave at Elm St													
N Santa Cruz south of Elm St Midblock													
N Santa Cruz north of E Main St Midblock													

Town of Los Gatos
 #25-811-9901 2026 Annual Street Repair and Resurfacing
 Street List

Street	Accessible Parking-TLG Std. ST-265 (Ea.)	Blue Curb (L.F.)	Red Curb (L.F.)	White Curb (L.F.)	School Bus Only Curb Marking (Ea.)	Green Back Bike Lane Symbol with Arrow Legend TLG-Std. TR-A (Ea.)	Green Bike Lane (L.F.)	Dashed Green Bike Lane (L.F.)	Roadway Bicycle Marking-TLG Std. TR-G (Ea.)	Blue Reflective Pavement Marker (Ea.)	Install New 3' Wheel Stop (Ea.)	Remove and Salvage Signs on Existing Post (Ea.)	Install New Sign on Existing Post (Ea.)
Mullen Ave at University Ave													
University Ave at Elm St													
University Ave between Main St and Elm St Midblock													
Winchester Blvd at Albright Wy													
Winchester Blvd at Knowles Dr													
E Main St at Montebello Wy													
University Ave at Royce St													
Stacia St at Los Gatos Blvd													
Magneson Loop at Los Gatos Blvd													
University Ave at Bentley Ave													
ADDITIVE ALTERNATE 1:													
HILL TOP DR										1			
WOODED VIEW DR										6			
WOODED VIEW DR													



LEGEND:

- Transition Begin/End
- XX' Striping Length
- XX Striping Detail

LEGEND MARKINGS:

- 25
- Type IV Arrow
- Type VII Arrow



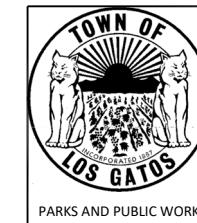
Alberto Way
ANNUAL PAVING 2025-26
STRIPING PLAN
SHEET 1 OF 2

DATE:	3/16/2026
SCALE:	40'
DESIGN:	MV
APPROVE:	GH
PROJECT NO.:	25-811-9901



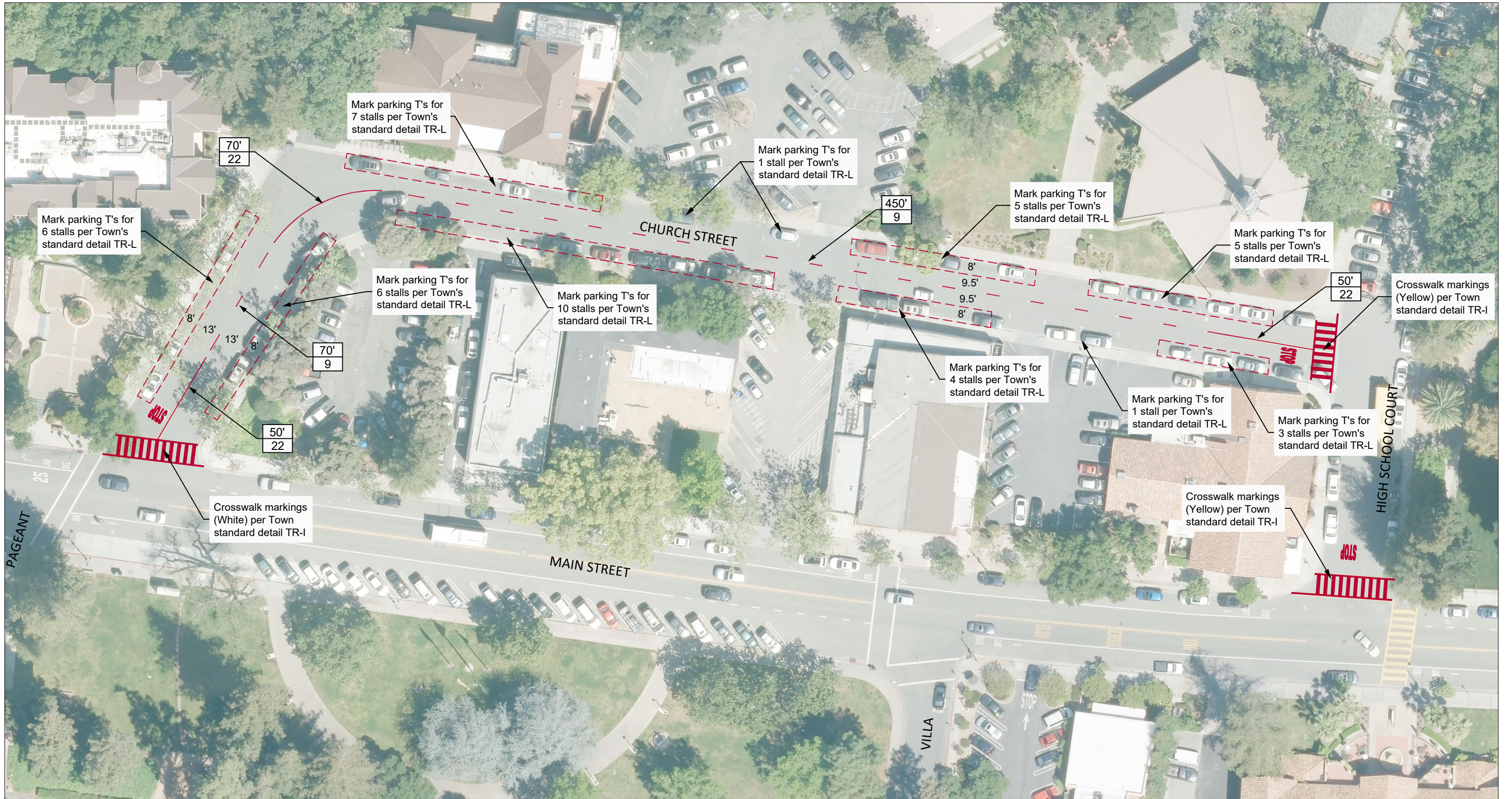
LEGEND:

- XX' Striping Length
- XX Striping Detail



Alberto Way
ANNUAL PAVING 2025-26
STRIPING PLAN
SHEET 2 OF 2

DATE:	3/16/2026
SCALE:	40'
DESIGN:	MV
APPROVE:	GH
PROJECT NO.:	25-811-9901



DRAWING NAME: N:\PPW\ENGINEERING\TRAFFIC\TrafficProjects\Projects\AnnualPaving\2026\AnnualPavingStriping2026.dwg
 PLOT TIME: 03-16-26
 PLOTTED BY: jpu

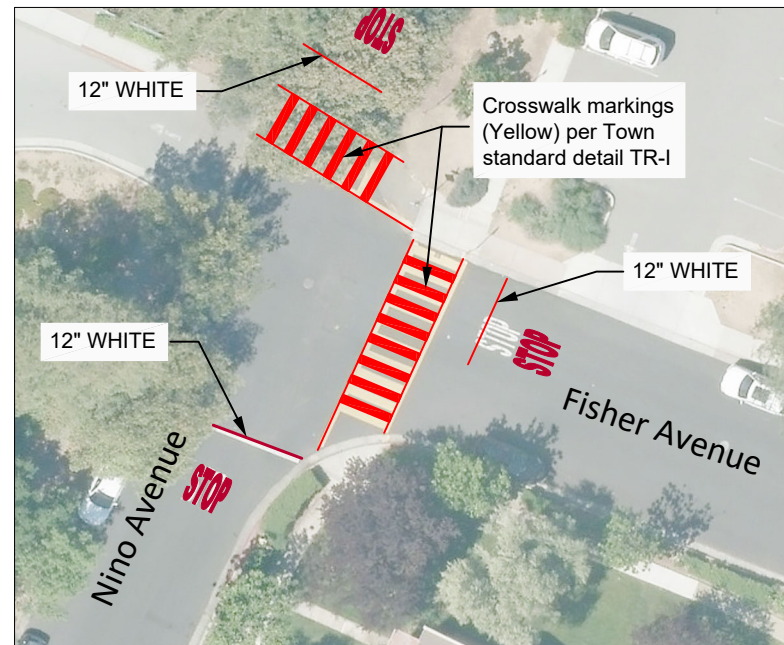
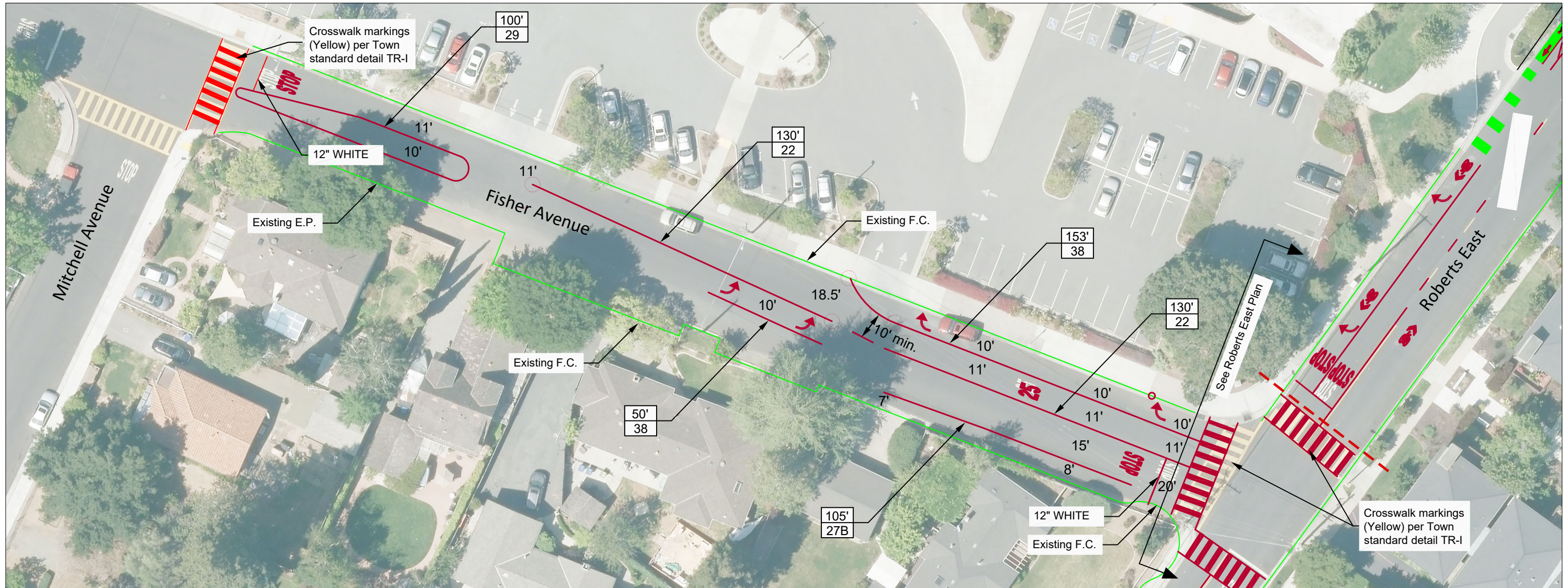
LEGEND:

- XX' Striping Length
- XX Striping Detail
- STOP STOP legend



Church Street
 High School Court
 ANNUAL PAVING 2025-26
 STRIPING PLAN
 SHEET 1 OF 1

DATE:	3/16/2026
SCALE:	50'
DESIGN:	MV
APPROVE:	GH
PROJECT NO.:	25-811-9901



NOTES:
See Roberts Road East striping plan for striping details for Roberts Road East.

LEGEND:

- Transition Begin/End
- XX' Striping Length
- XX Striping Detail

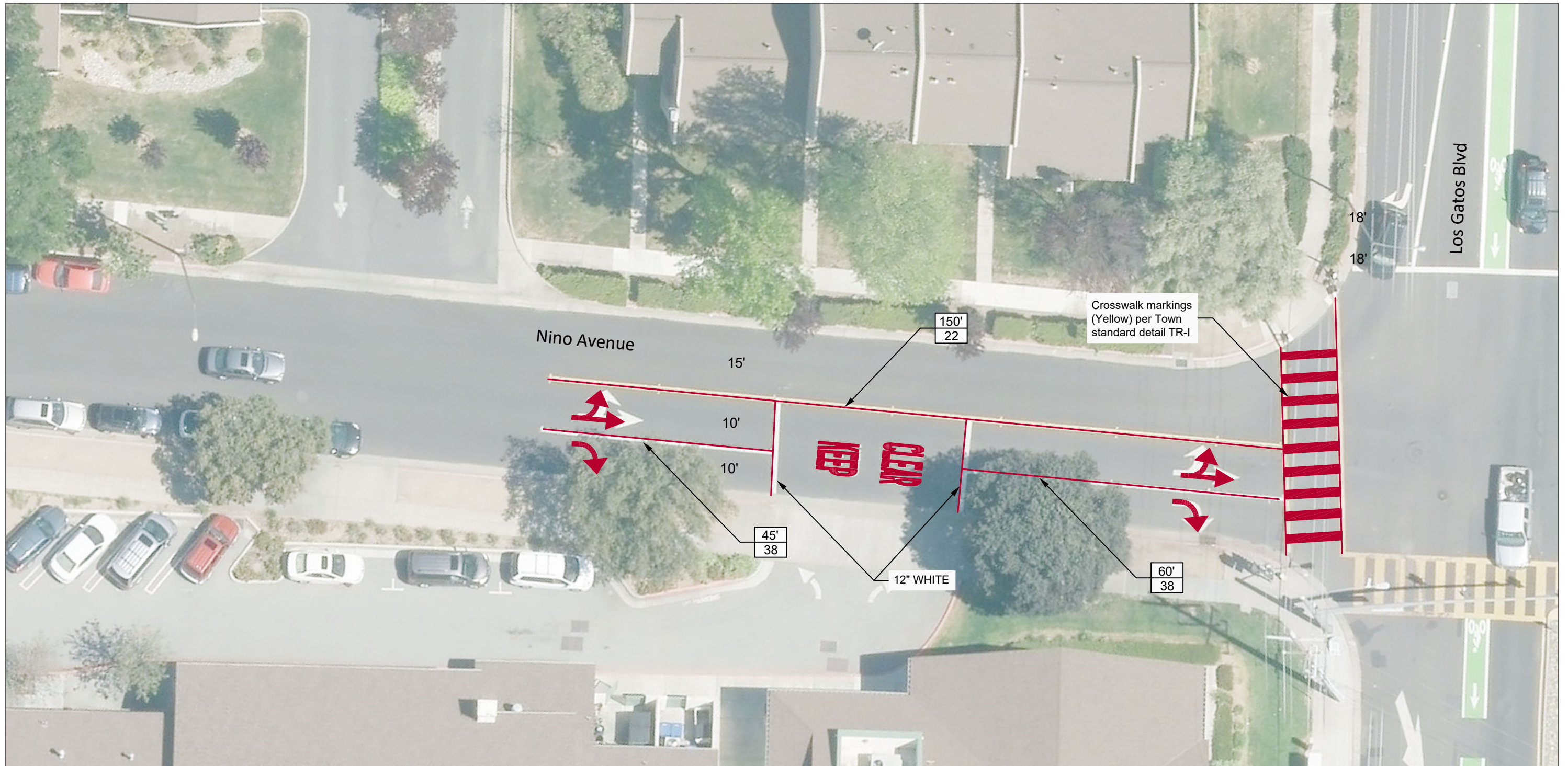
LEGEND MARKINGS:

- 25
- Type IV Arrow
- Type IV Arrow
- STOP legend



Fisher Avenue
ANNUAL PAVING 2025-26
STRIPING PLAN
SHEET 1 OF 1

DATE:	3/16/2026
SCALE:	40'
DESIGN:	MV
APPROVE:	GH
PROJECT NO.:	25-811-9901



LEGEND:

XX'	Striping Length
XX	Striping Detail

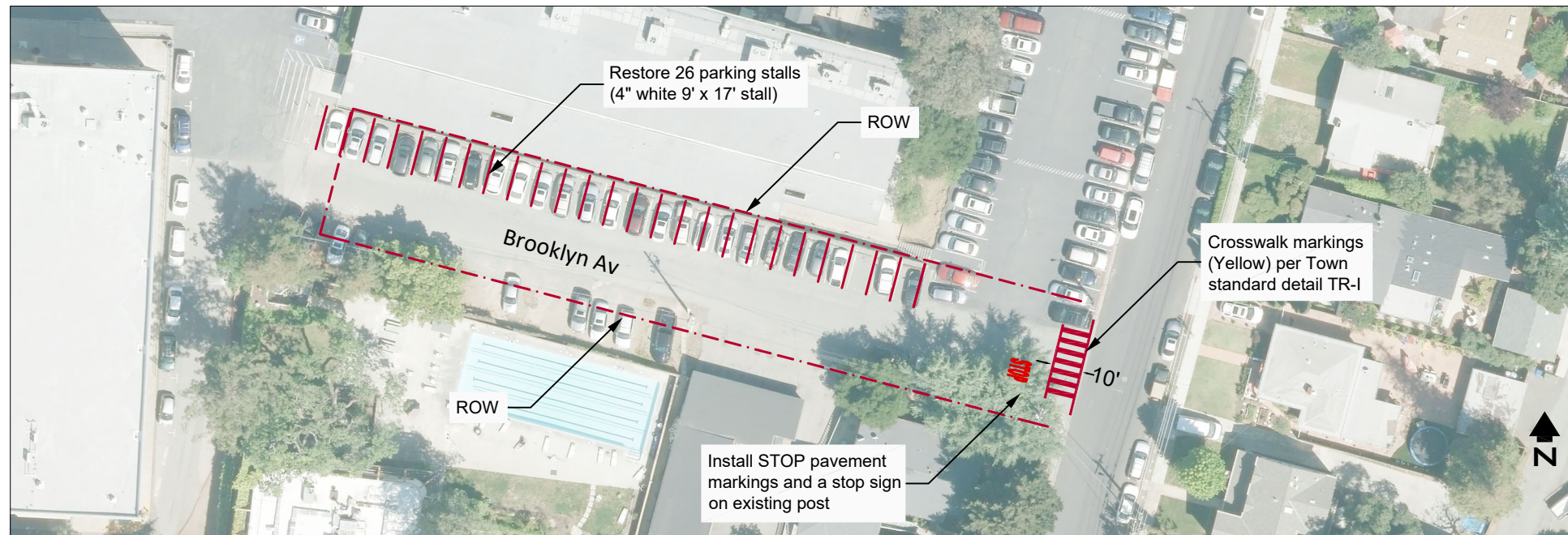
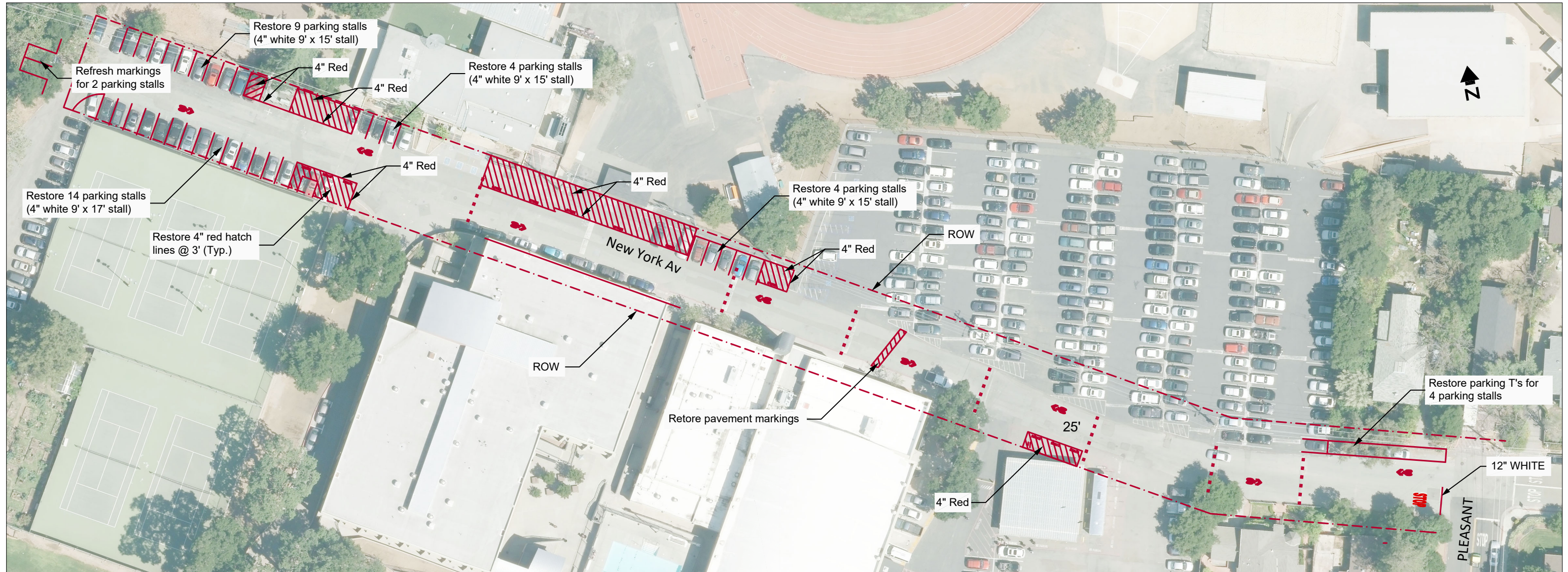
LEGEND MARKINGS:

- Type IV Arrow
- Type VII Arrow



Nino Avenue
ANNUAL PAVING 2025-26
STRIPING PLAN
SHEET 1 OF 1

DATE:	3/16/2026
SCALE:	20'
DESIGN:	MV
APPROVE:	GH
PROJECT NO.:	25-811-9901



LEGEND:

..... Speed bump per Town standard detail TR-J2. Restore bump opening per existing conditions

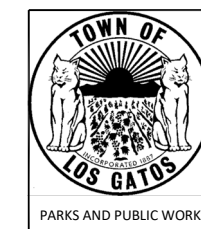
STOP

NOTES:

Contractor shall mark reference points for restoring pavement markings prior to construction or removal of existing pavement markings.

Restore pavement markings to conform existing.

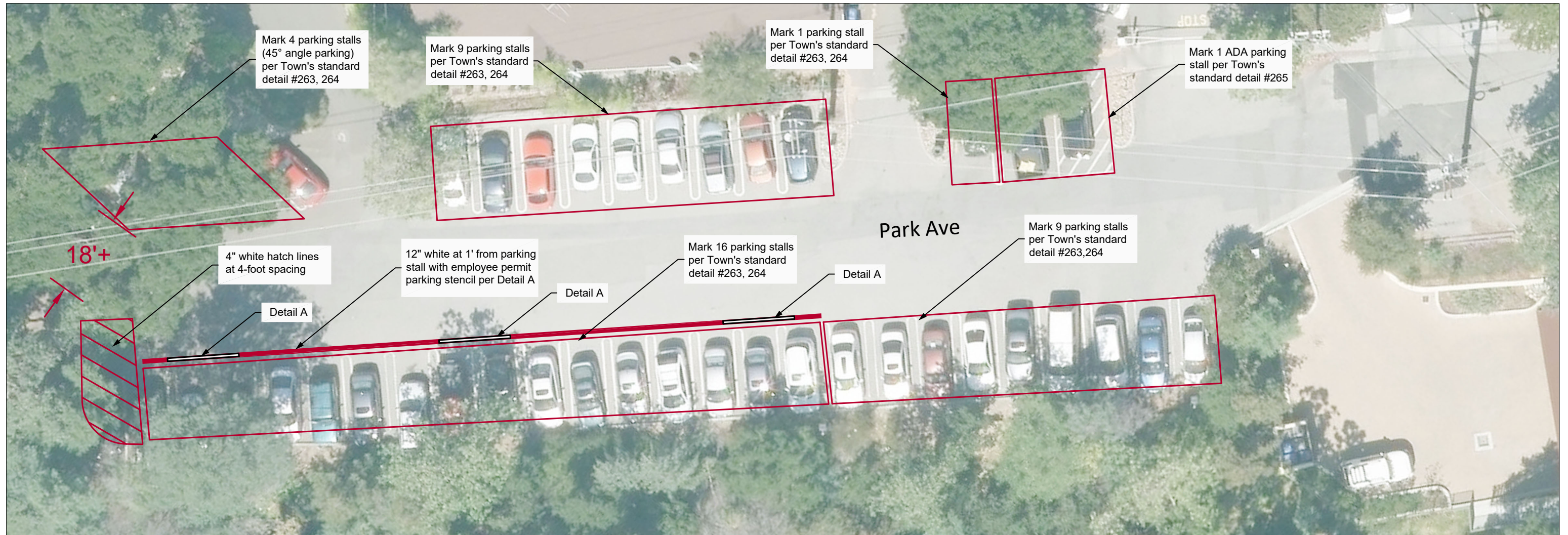
Some speed bumps have drainage openings. Contractor to mark reference points for existing speed bumps and drainage openings prior to construction and shall construct speed bumps and drainage openings accordingly.



New York Avenue
Brooklyn Avenue
ANNUAL PAVING 2025-26

STRIPING PLAN
SHEET 1 OF 1

DATE:	3/19/2026
SCALE:	60'
DESIGN:	MV
APPROVE:	GH
PROJECT NO.:	25-811-9901



Detail A - Employee Permit Parking Stencil

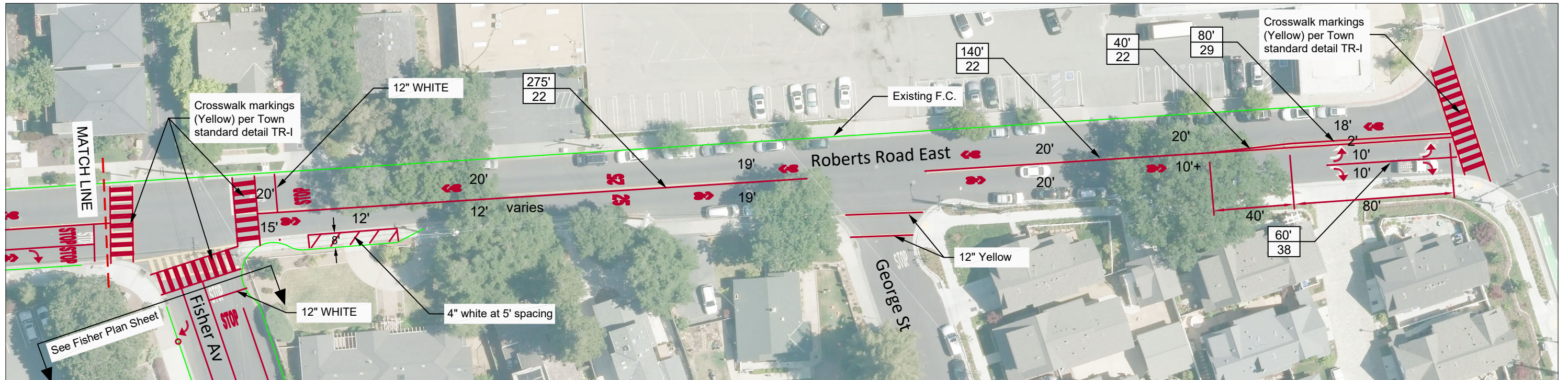
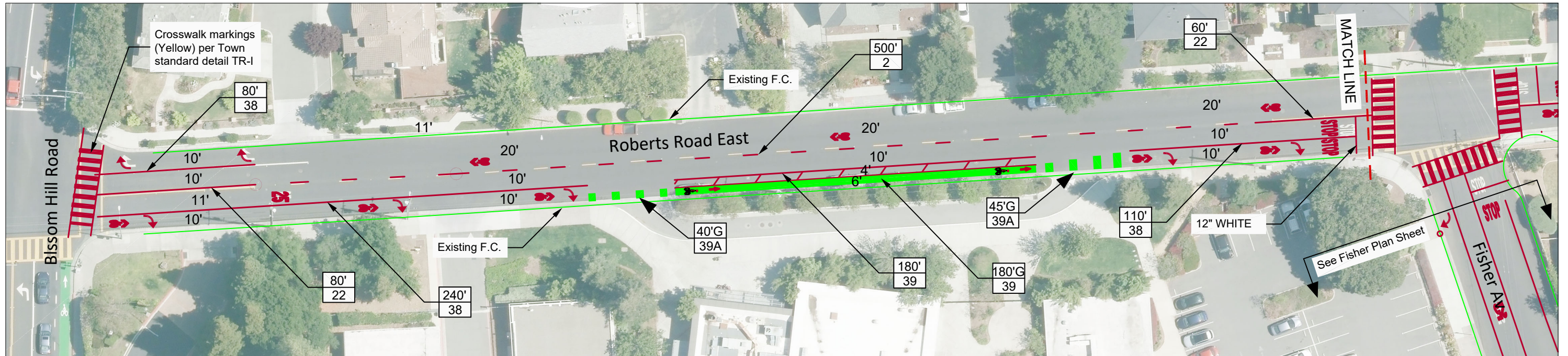
LEGEND:

STOP STOP legend



PARK AVENUE
 Parking Lot
 ANNUAL PAVING 2025-26
 STRIPING PLAN
 SHEET 1 OF 1

DATE:	3/16/2026
SCALE:	50'
DESIGN:	MV
APPROVE:	GH
PROJECT NO.:	25-811-9901

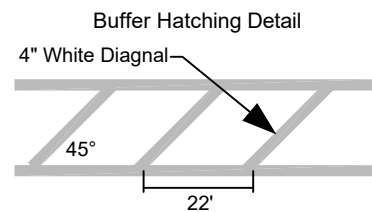
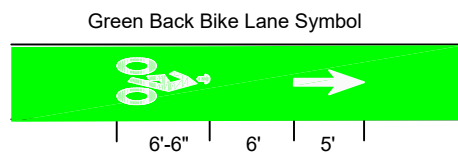


LEGEND:

- Transition Begin/End
- XX' Striping Length
- XX Striping Detail
- XX'G G as Green Back
- XX Striping Detail

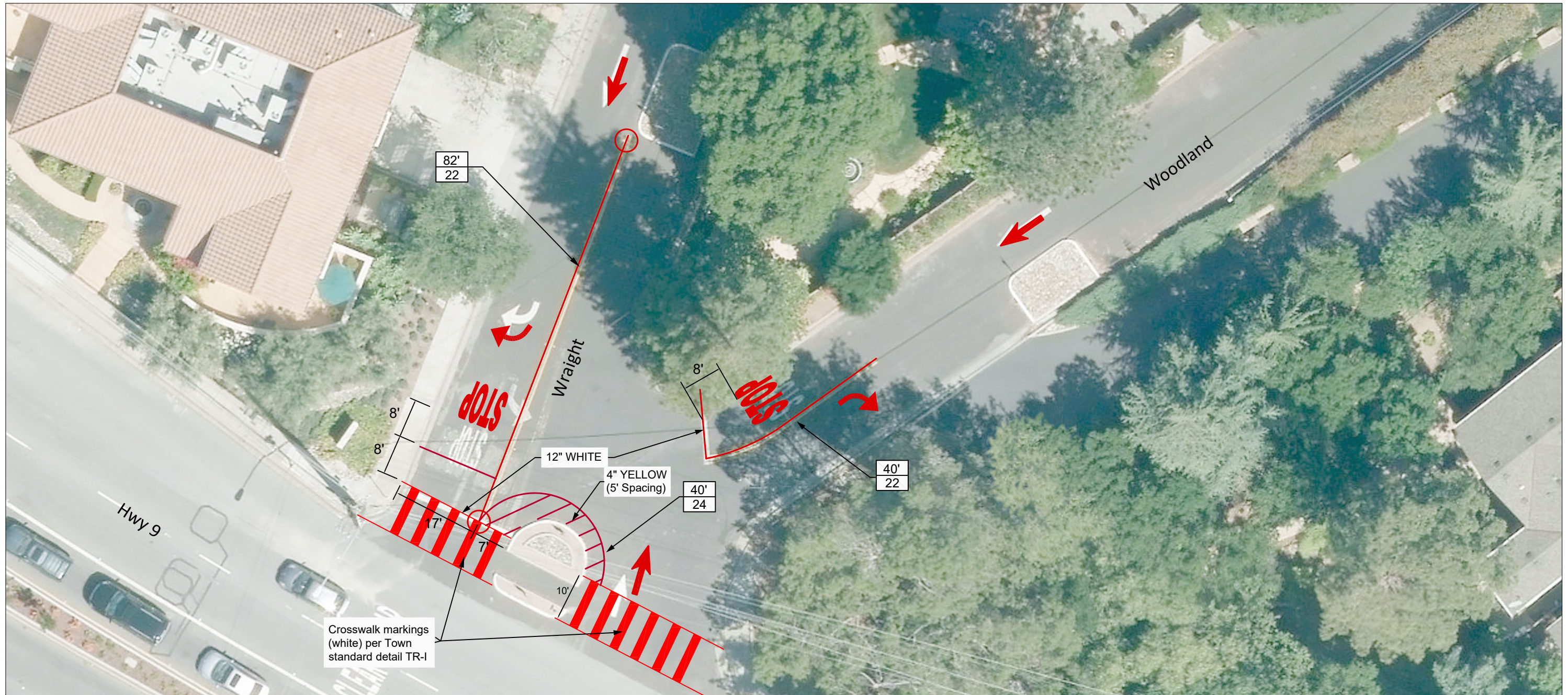
LEGEND MARKINGS:
(Centered in travel lane)

- 25
- Type IV Arrow
- Type IV Arrow
- STOP STOP legend
- Bike Sharrow



Roberts Road East
ANNUAL PAVING 2025-26
STRIPING PLAN
SHEET 1 OF 1

DATE:	3/18/2026
SCALE:	50'
DESIGN:	MV
APPROVE:	GH
PROJECT NO.:	25-811-9901



LEGEND:

- Transition Begin/End
- XX' Striping Length
- XX Striping Detail

LEGEND MARKINGS:

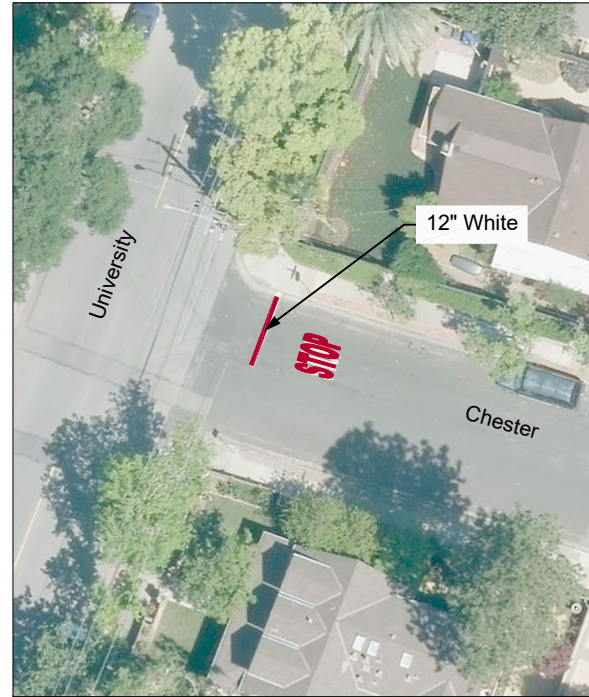
- STOP**
- Type IV Arrow
- Type I Arrow



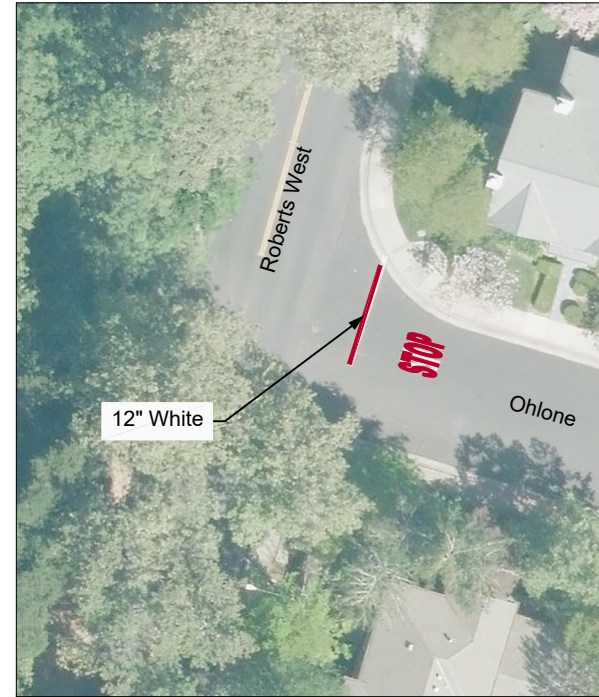
Wright Avenue
Woodland Avenue
ANNUAL PAVING 2024-25
STRIPING PLAN
SHEET 1 OF 1

DATE:	3/16/2026
SCALE:	20'
DESIGN:	MV
APPROVE:	GH
PROJECT NO.:	25-811-9901

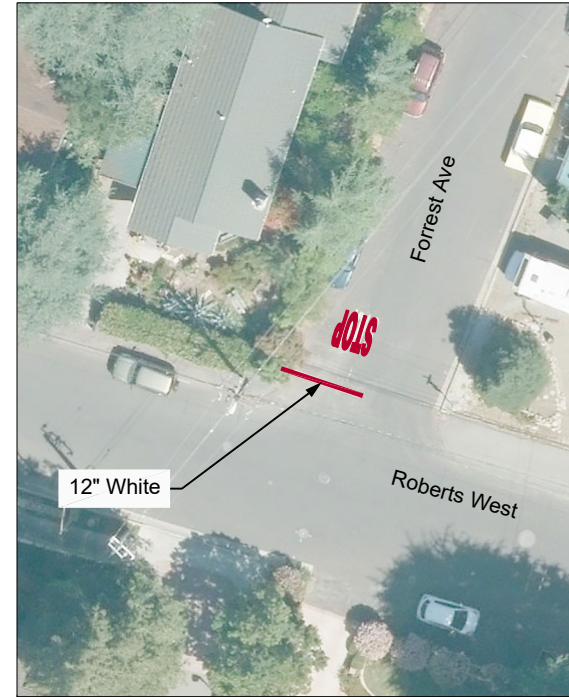
Chester Street



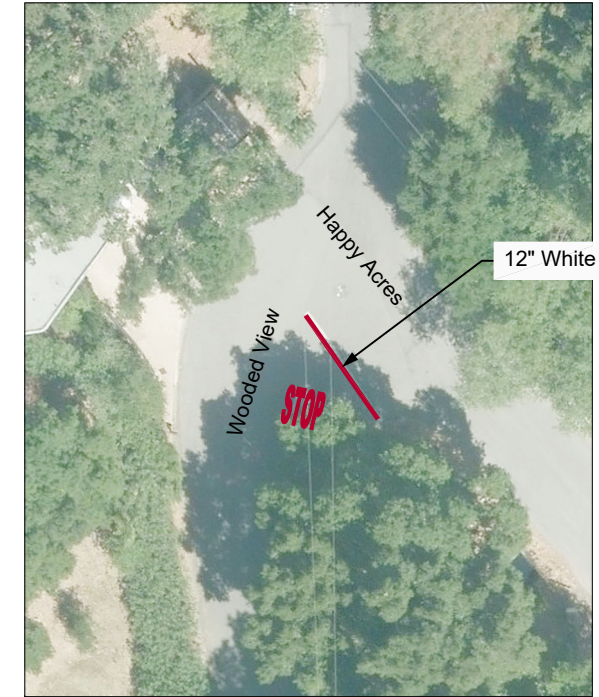
Ohlone Court



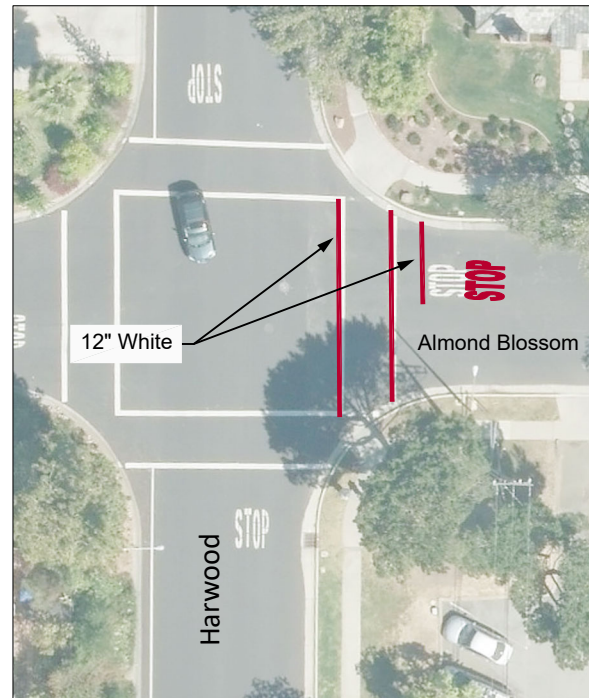
Forrest Avenue



Wooded View Drive



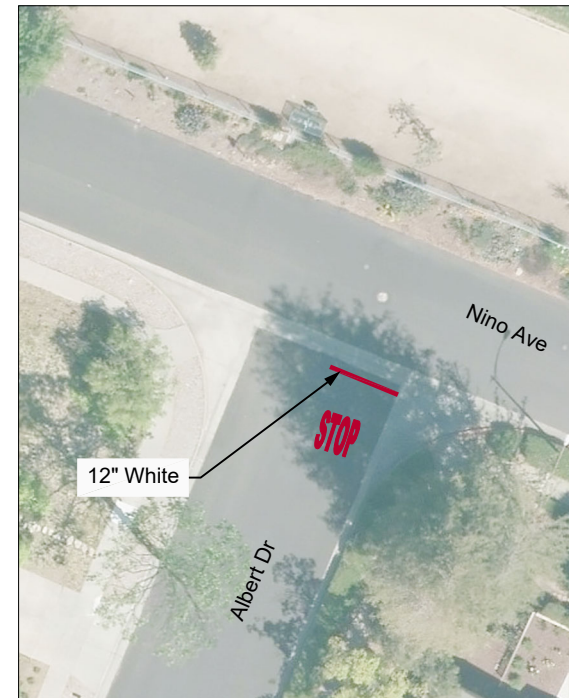
Almond Blossom Lane



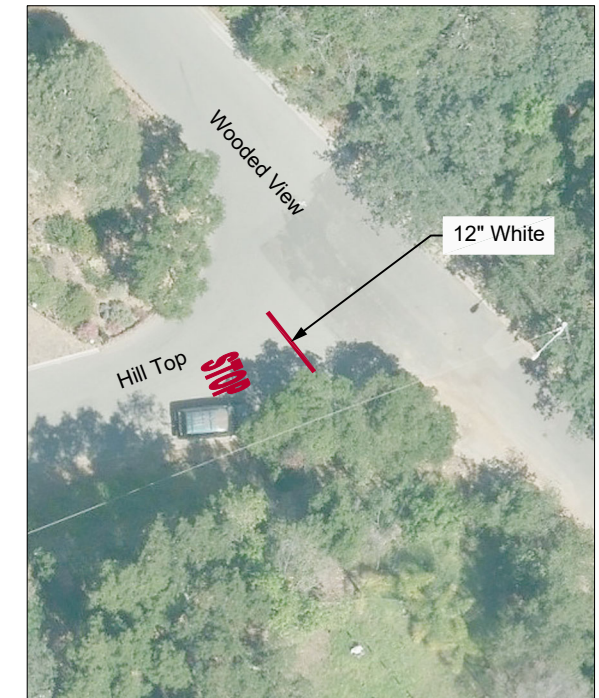
Lundy Lane



Albert Drive

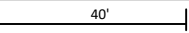


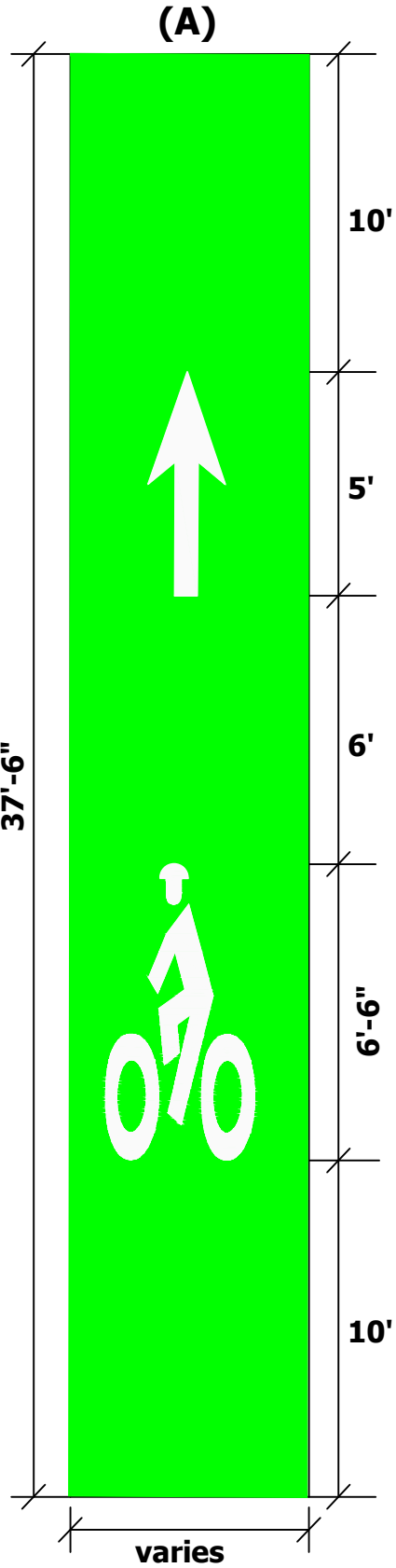
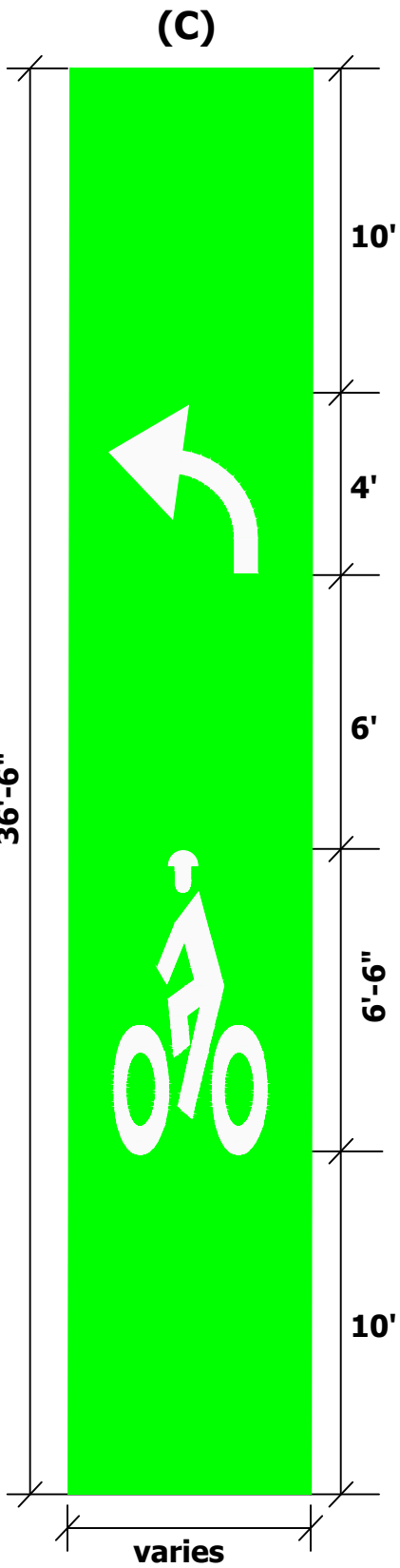
Hill Top Drive



LEGEND MARKINGS:

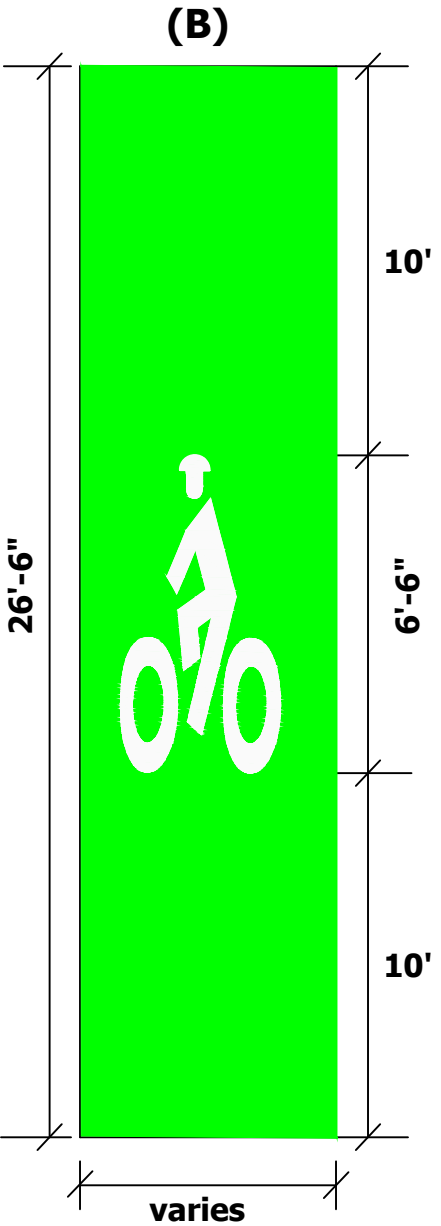



Almond Blossom, Hill Top Chester, Ohlone, Forrest Albert, Wooded View, Lundy ANNUAL PAVING 2024-25 STRIPING PLAN SHEET 1 OF 1	DATE: 3/16/2025
	SCALE: 
	DESIGN: MV
	APPROVE: GH
	PROJECT NO.: 25-811-9901

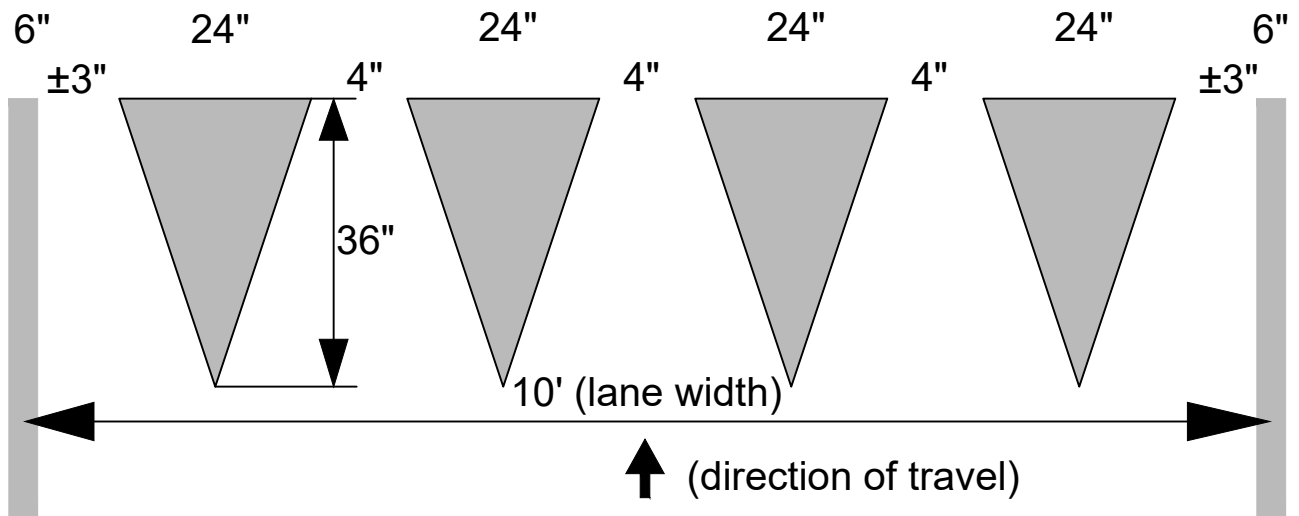
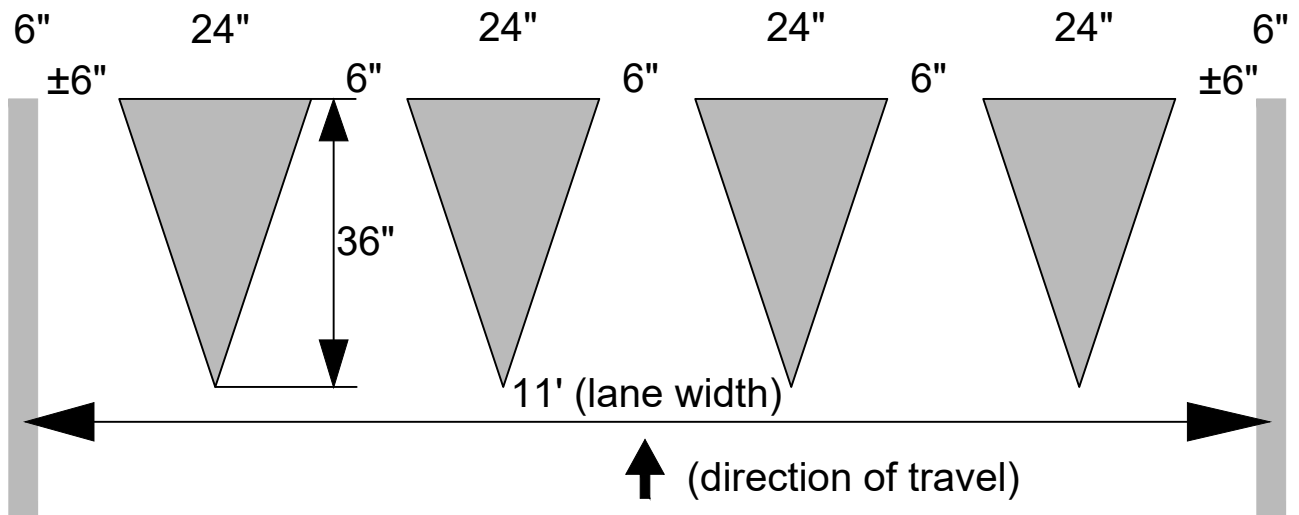
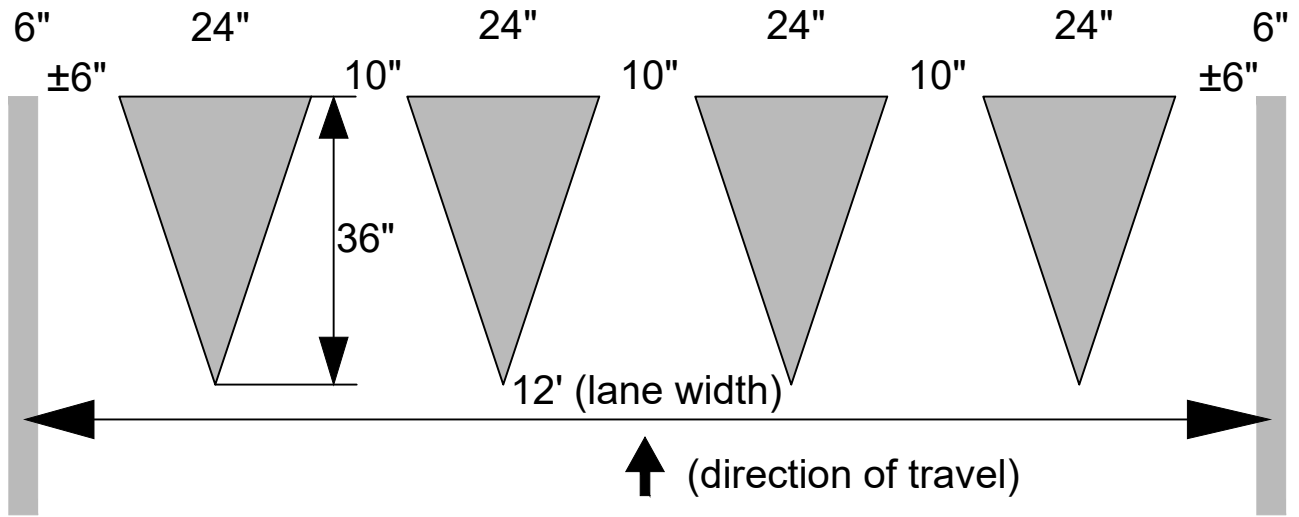


NOTES:

1. If used, install (A) for bike lane after every intersection and at mid-block as shown on the plans.
2. If used, install (B) at mid-block for bike lane as shown on the plans.
3. If used, install (C) for left turn bike lane as shown on the plans.
4. The spacing of bike lane symbols should not be greater than 300'.



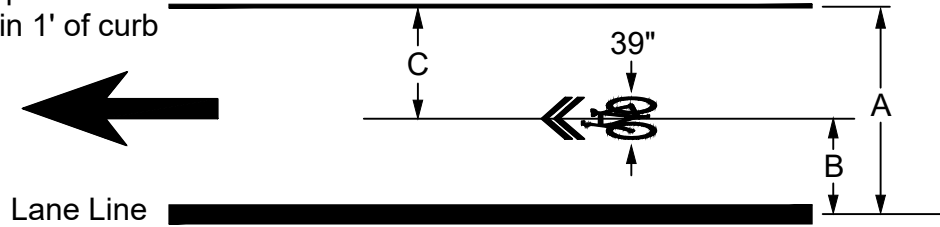
APPROVED BY	DATE		GREEN BACK BIKE LANE SYMBOL	STD. PLAN NO.
	2/14/2023			TR-A
TOWN ENGINEER	NOT TO SCALE			



NOT TO SCALE

APPROVED BY	DATE	YIELD LINE	STD. PLAN NO.
	8/17/2021		TR-B
TOWN ENGINEER			

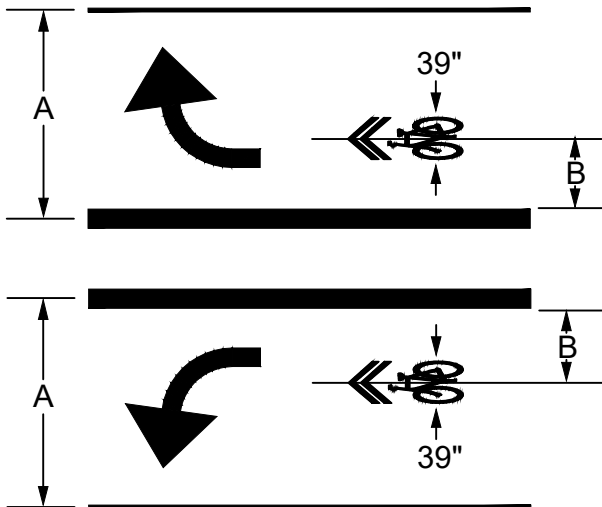
Curb or edge of pavement
or edgeline within 1' of curb



Bike Sharrow Lateral Position (with on-street parking)			
A	B	C	Notes
$\geq 24'$		13'	Consider bike lane
23'	6.5'		Consider bike lane
22'	6'		$B=(A-10)/2$
21'	5.5'		$B=(A-10)/2$
20'	5'		$B=(A-10)/2$

Bike Sharrow Lateral Position (without on-street parking)		
A	C	Notes
$\geq 15'$	4'min	Consider bike lane
14'	4'	
$< 14'$		Centered in lane


Note: Shared Lane Marking (Sharrow) may be used in addition to or instead of the Use Full Lane sign to inform road users that bicyclists might occupy the travel lane.



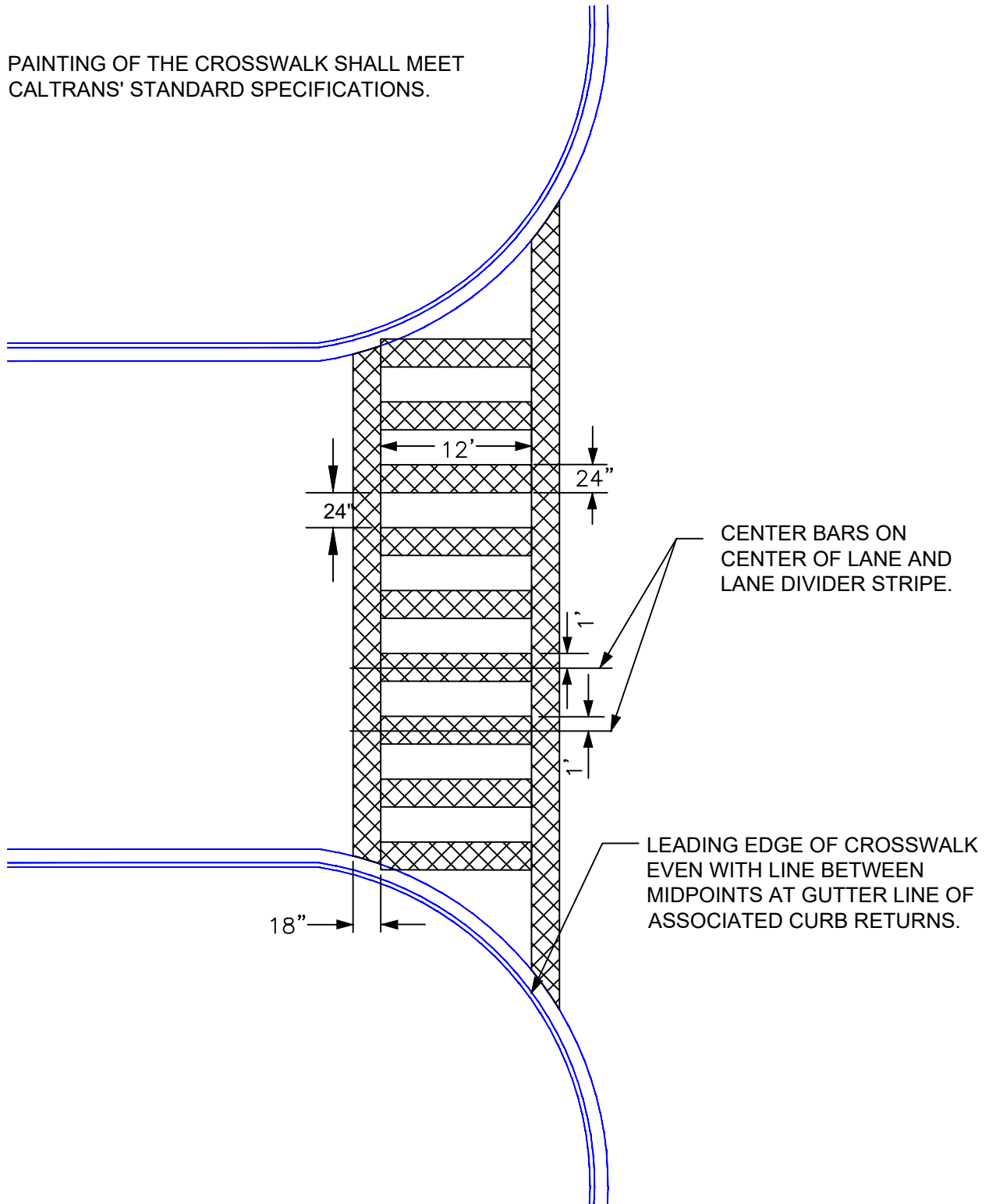
Bike Sharrow Lateral Position (in left turn and right-turn only lanes)		
A	B	Notes
$\geq 14'$	4'min	
$< 14'$		Centered in lane

Note: Sharrow may be used in left turn and right turn only lanes to indicate bicyclist may travel straight through an intersection.


Reference: CA MUTCD Revision 6, March 30, 2021, Section 9C.07, Figure 9C-108 (CA), Figure 9C-111 (CA), Figure 9C-112 (CA). Also refer to Caltrans Standard Detail for Shared Roadway Bicycle Marking (Bike Sharrow).

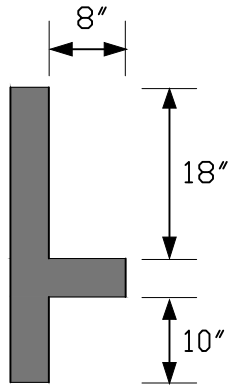
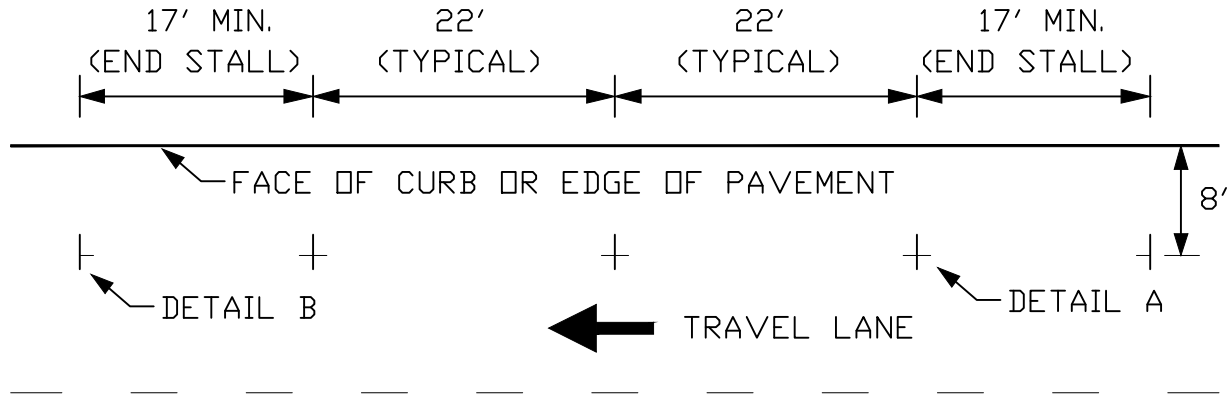
APPROVED BY	DATE		BIKE SHARROW Example Lateral Position	STD. PLAN NO.
	2/16/2023			TR-G
TOWN ENGINEER	NOT TO SCALE			

PAINING OF THE CROSSWALK SHALL MEET CALTRANS' STANDARD SPECIFICATIONS.



NOT TO SCALE

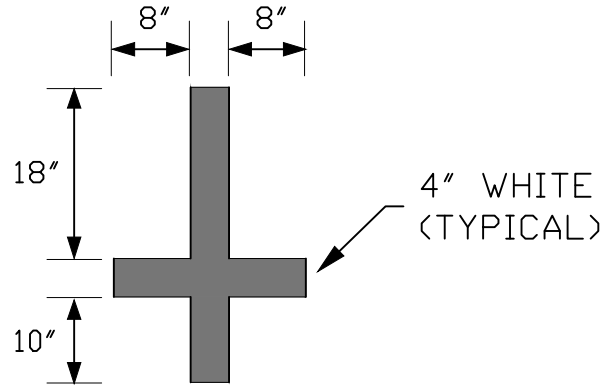
APPROVED BY	DATE		HIGH VISIBILITY CROSSWALK MARKING	STD. PLAN NO.
	2/14/2023			
TOWN ENGINEER				TR-I



DETAIL B
PARKING T STENCIL
(END STALL)

PARKING
SIDE

TRAVEL
LANE
SIDE




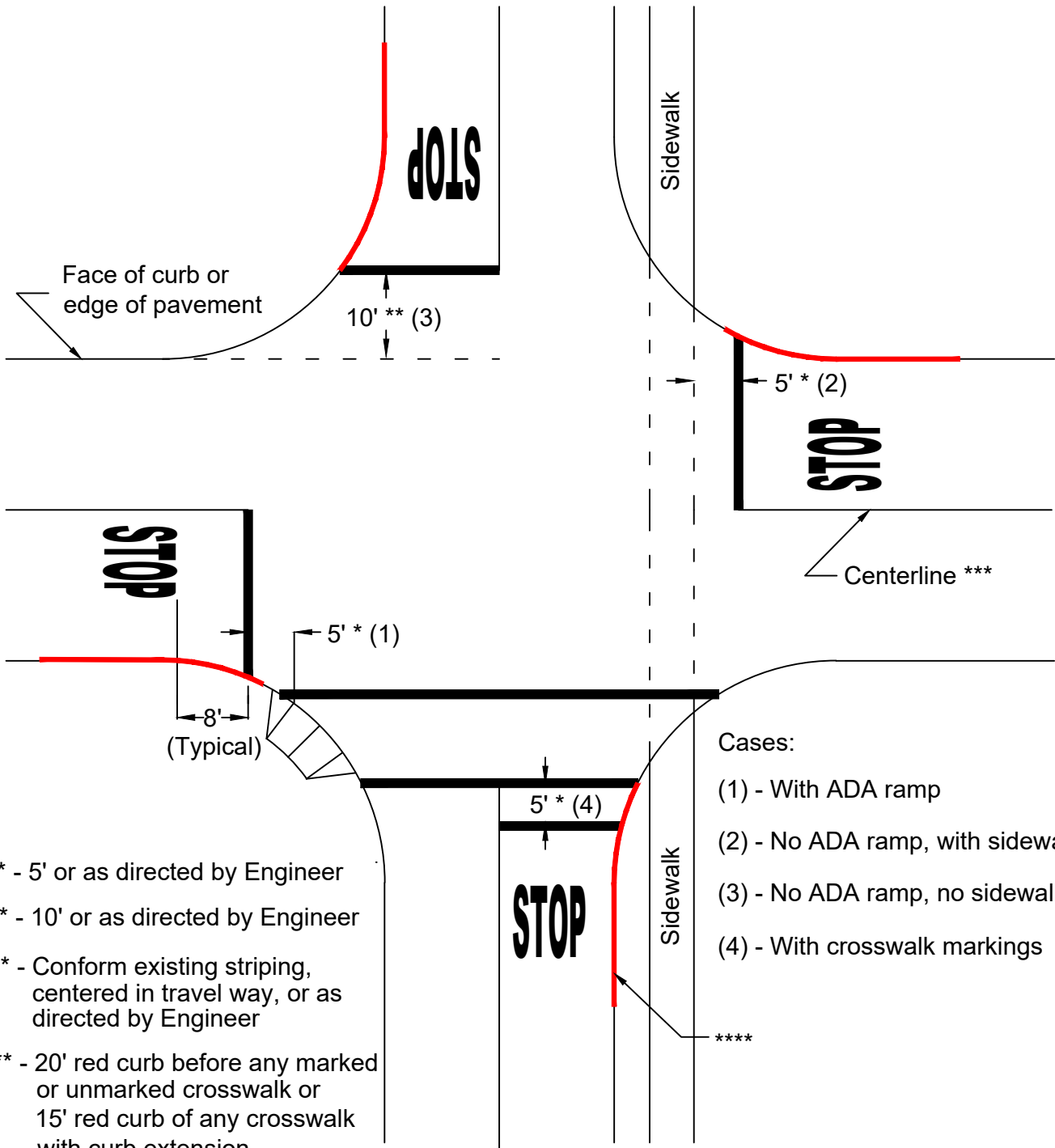
DETAIL A
PARKING T STENCIL
(TYPICAL)

NOTES:

1. TYPICAL PARALLEL PARKING STALL IS 8'-WIDE 22'-LONG. END PARKING STALL LENGTH MAY BE REDUCED TO 17' MINIMUM.
2. PARKING STALL WIDTH, IF APPROVED BY ENGINEER, MAY BE REDUCED TO 7' MINIMUM FOR NARROW LOW VOLUME MINOR STREETS TO MAINTAIN DESIRED TRAVEL LANE WIDTH.
3. PARKING T DETAILS MAY BE ADJUSTED AS APPROVED BY ENGINEER.

NOT TO SCALE

APPROVED BY	DATE		ON-STREET PARKING T STRIPING DETAIL	STD. PLAN NO.
	2/16/2023			
TOWN ENGINEER				TR-L




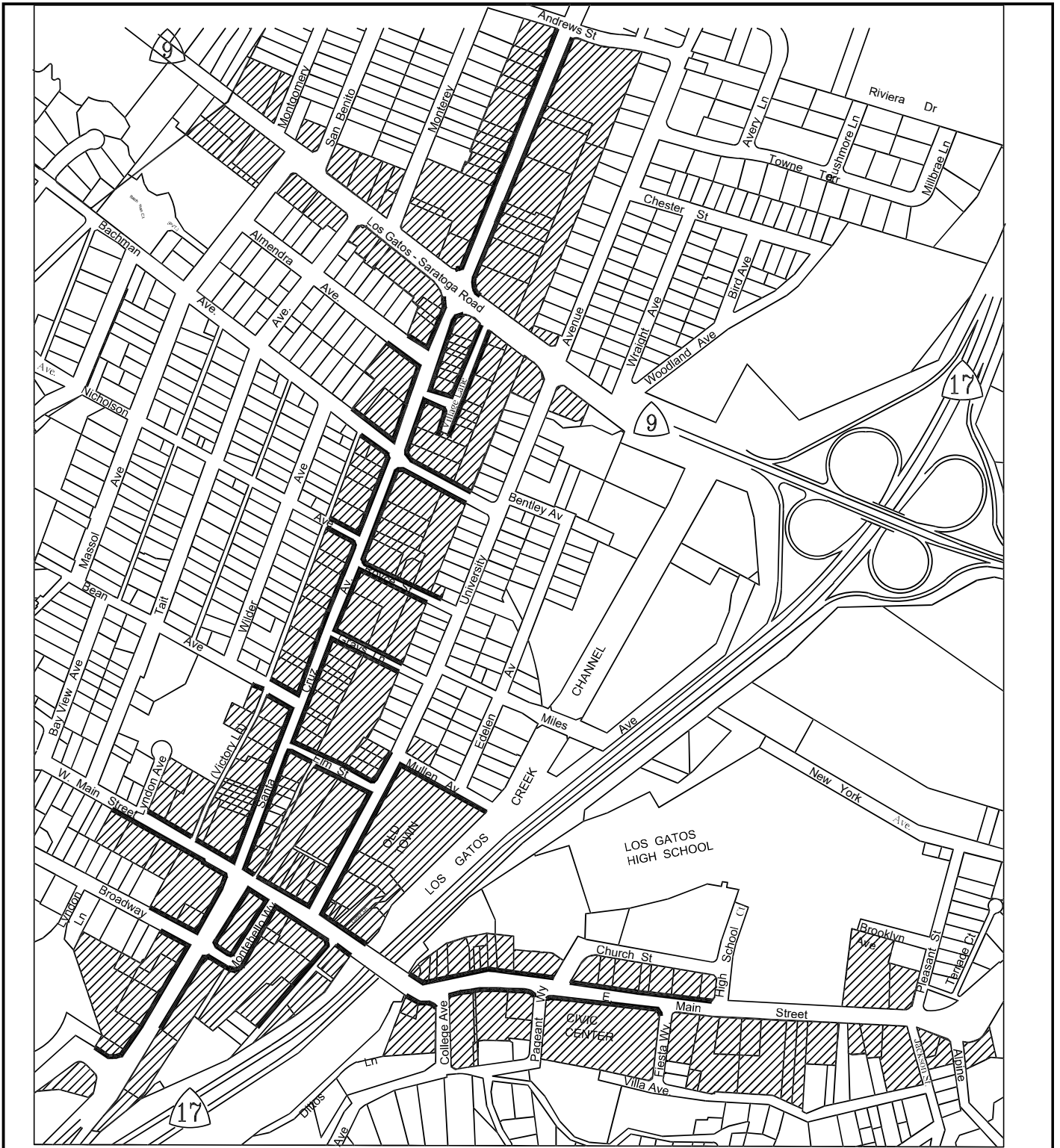
- Cases:
- (1) - With ADA ramp
 - (2) - No ADA ramp, with sidewalk
 - (3) - No ADA ramp, no sidewalk
 - (4) - With crosswalk markings

* - 5' or as directed by Engineer
 ** - 10' or as directed by Engineer
 *** - Conform existing striping, centered in travel way, or as directed by Engineer
 **** - 20' red curb before any marked or unmarked crosswalk or 15' red curb of any crosswalk with curb extension

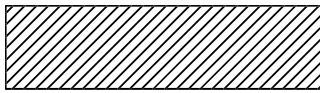
Reference: CA MUTCD March 10, 2023, Section 3B.16 Stop and Yield Lines
 CA Vehicle Code Chapter 9 Stopping, Standing and Parking, Section 22500.(n)

NOT TO SCALE


APPROVED BY	DATE		Stop Lines at Intersections Example Layout	STD. PLAN NO.
TOWN ENGINEER	4/10/2024			TR-N

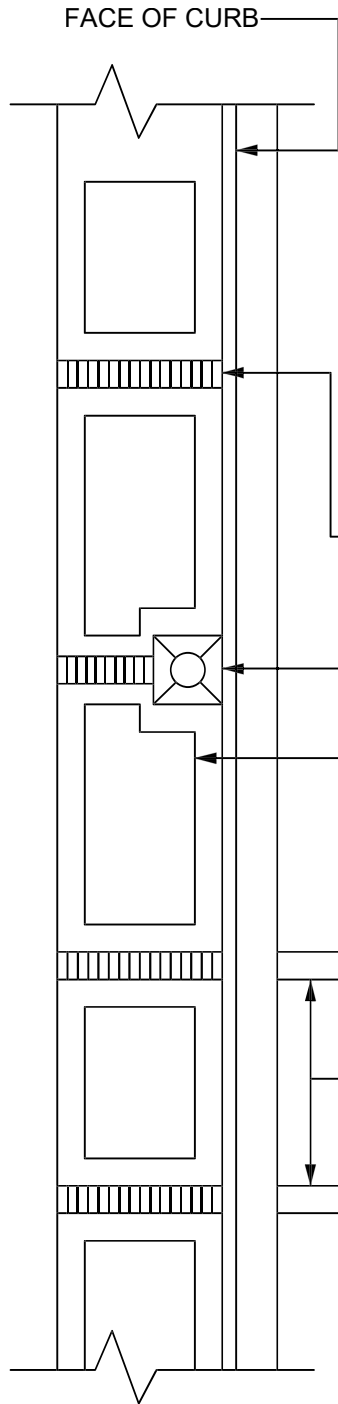


LEGEND



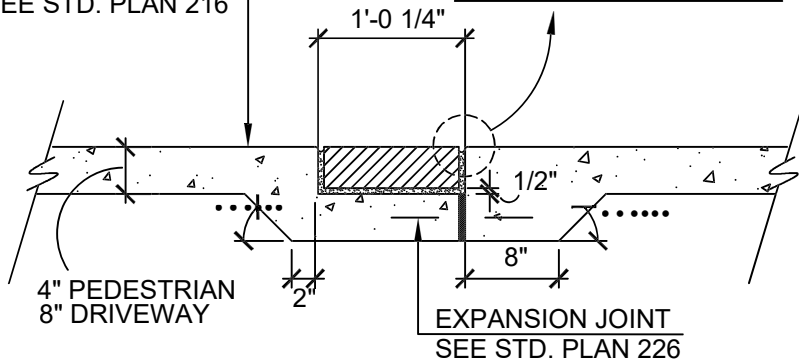
Downtown Commercial Areas
 Villa Hermosa Sidewalk Required

APPROVED BY	DATE		VILLA HERMOSA AREA	STD. PLAN NO.
 TOWN ENGINEER	NOVEMBER 2010			ST-225



CONCRETE SIDEWALK
SEE STD. PLAN 216

TOOLED JOINT
MORTAR JOINTS, TYP.



NOTES:

1. Mortar joints between bricks to be 3/8".
2. Expansion joints as shown on plans.

"Villa Hermosa" theme: Depress concrete slab to receive brick strips

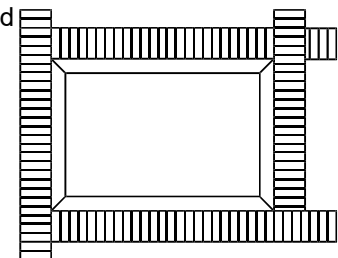
Install tree grates.

Install tooled score line 12 inches from panel edges.

NOTE:

All new paving to be "Villa Hermosa" as shown in this detail with the following exceptions:

- A. Additional score lines at 45 degrees to be added as shown in detail below.



SCORE JOINT DETAIL- TYPICAL

NOTES:

1. See Std. Detail 225 for Villa Hermosa sidewalk areas.
2. All concrete shall be Class "A", per Caltrans specifications, with 1 lb. (min.) lamp black per cubic yard.
3. ALL WORK SHALL CONFORM TO CURRENT A.D.A. REQUIREMENTS.

APPROVED BY

Kevin Refau

TOWN ENGINEER

DATE

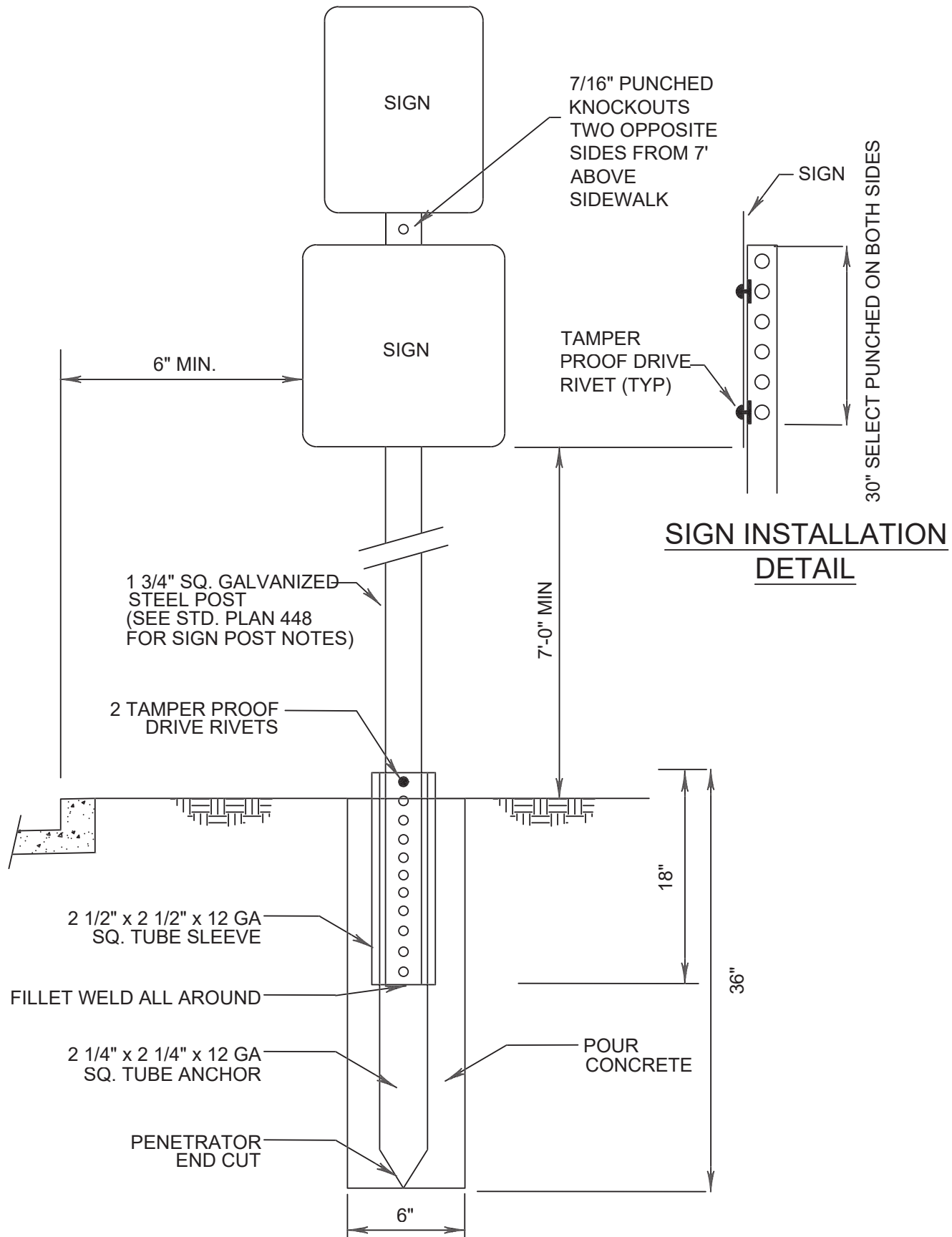
NOVEMBER 2010




VILLA
HERMOSA
SIDEWALK

STD. PLAN NO.

ST-224




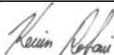
APPROVED BY	DATE		SIGN MOUNTING DETAIL	STD. PLAN NO.
<i>Kevin Affari</i>	NOVEMBER 2010			ST-239
TOWN ENGINEER				

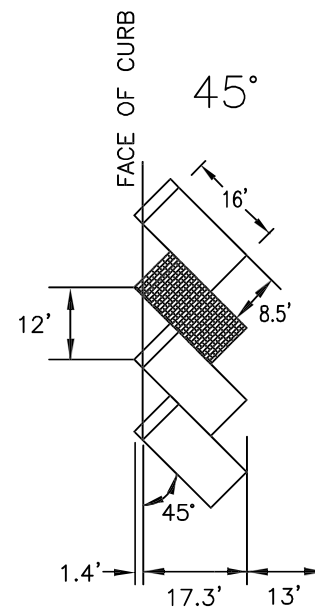
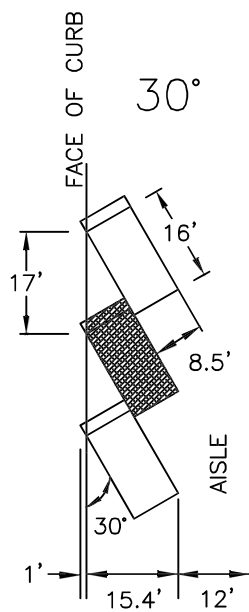
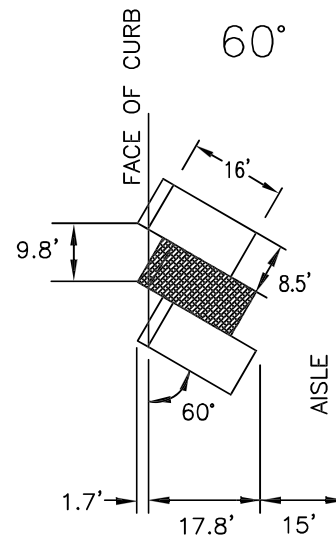
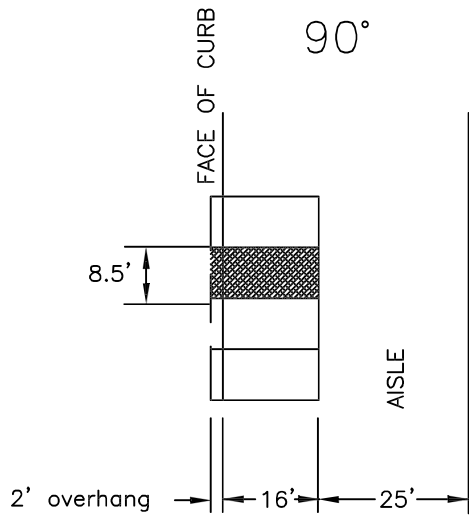
NOTES:

- 1 SIDEWALKS AND PAVED AREAS SHALL BE CORE DRILLED BEFORE ATTEMPTING SIGN INSTALLATION.
- 2 SIGNS SHALL HAVE A MIN. HEIGHT OF 7' FROM THE NEAR EDGE OF SIGN TO THE SIDEWALK GRADE, OR TOP OF CURB, AND A 2' LATERAL CLEARANCE FROM THE FACE OF CURB TO THE NEAR EDGE OF SIGN. SIGN LOCATION SHALL BE AS SHOWN ON THE PLANS AND PER M.U.T.C.D.
- 3 REFLECTIVE SHEETING SHALL BE MANUFACTURED BY 3M TRAFFIC CONTROL MATERIALS DIVISION.
 - a. REGULATORY AND WARNING SIGNS SHEETING SHALL BE 3M DIAMOND GRADE VIP TYPE MATERIAL OR EQUIVALENT. SIZE OF SIGNS SHALL BE NO LESS THAN 30x30 UNLESS SPECIFIED BY THE TOWN ENGINEER.

SIGN POST NOTES:

- 4 ALL TUBING MATERIAL SHALL BE "ULTI-MATE" SELECT PUNCH TYPE GALVANIZED STEEL (ASTM A70 GRADE 33) OR APPROVED EQUIVALENT. POST SHALL BE POWDER-COATED BLACK.
- 5 TUBING SHALL BE ROLL FORMED FROM STEEL CONFORMING TO STANDARD SPECIFICATIONS FOR STEEL SHEET, A.S.T.M. DESIGNATION A653-94, STRUCTURAL QUALITY, GRADE 50 MODIFIED TO GRADE 55.
- 6 MATERIAL SHALL BE HOT-DIP GALVANIZED (ZINC COATED), COATING DESIGNATION G-90, WITH ADDED CHEMICAL TREATMENT FOR ENHANCED CORROSION PROTECTION.
- 7 THE CROSS SECTION OF THE POST SHALL BE SQUARE TUBING, CAREFULLY FORMED FROM 14 GA. STEEL SHEET AND WELDED SO AS THE WELD FLASH DOES NOT INTERFERE WITH THE TELESCOPING PROPERTIES. SIZE OF POST SHALL BE 1.75" x 1.75".
- 8 HOLE DIAMETER SHALL BE 7/16" (PLUS OR MINUS 1/64") ON 1" CENTERS ON TWO OPPOSITE SIDES. HOLES SHALL BE ON CENTERLINE OF EACH SIDE IN TRUE ALIGNMENT AND OPPOSITE TO EACH OTHER. TOLERANCE ON THE HOLE SPACING IS PLUS OR MINUS 1/8" IN 20'. FIRST SET OF HOLES SHALL BE 1/2" FROM THE TOP OF THE ANCHOR. ANCHOR SHALL HAVE EITHER 6 OR 12 SETS OF HOLES. THE BOTTOM OF THE ANCHOR SHALL HAVE A PENETRATOR POINT.
- 9 CONCRETE SHALL BE POURED AROUND POST.


APPROVED BY	DATE		SIGN NOTES	STD. PLAN NO.
	NOVEMBER 2010			ST-240
TOWN ENGINEER				

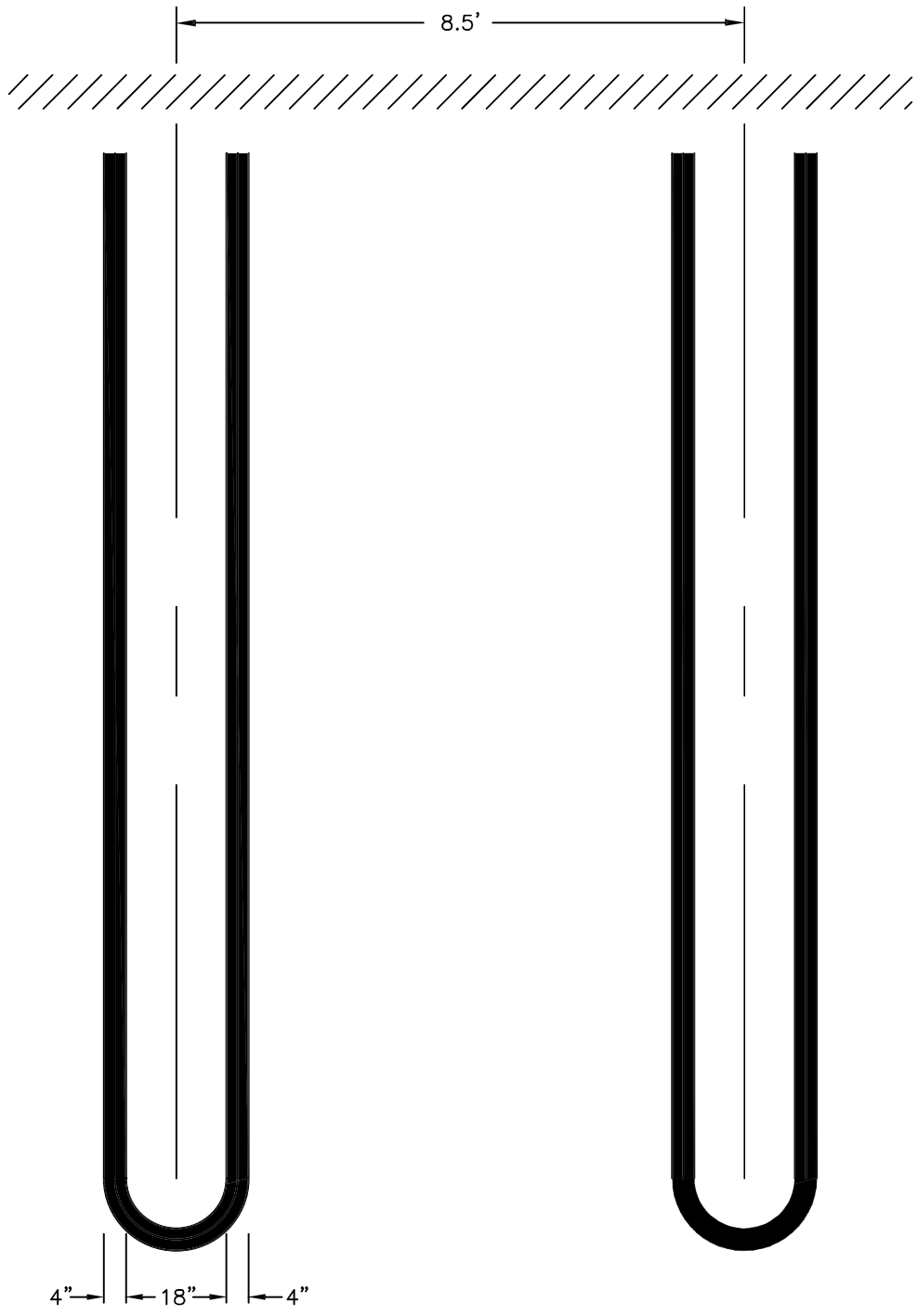


NOTES:

1. THESE DIMENSIONS SHALL BE USED WHEN OVERHANG FROM FRONT VEHICLE WHEEL IS PRESENT.
2. ALL STRIPING SHALL COMPLY WITH "OFF-STREET PARKING DOUBLE STRIPE" DETAIL 264 AND "ACCESSIBLE PARKING" DETAIL 265.
3. ALL OFF-STREET PARKING SHALL COMPLY WITH SECTION 29.10.155 OF THE LOS GATOS TOWN CODE.
4. WHEEL STOPS ARE NOT PERMITTED. CONTINUOUS CURBING MAY BE USED.

NOT TO SCALE

APPROVED BY	DATE		OFF-STREET PARKING WITH OVERHANG	STD. PLAN NO.
<i>Kevin Ahoai</i>	NOVEMBER 2010			ST-263
TOWN ENGINEER				

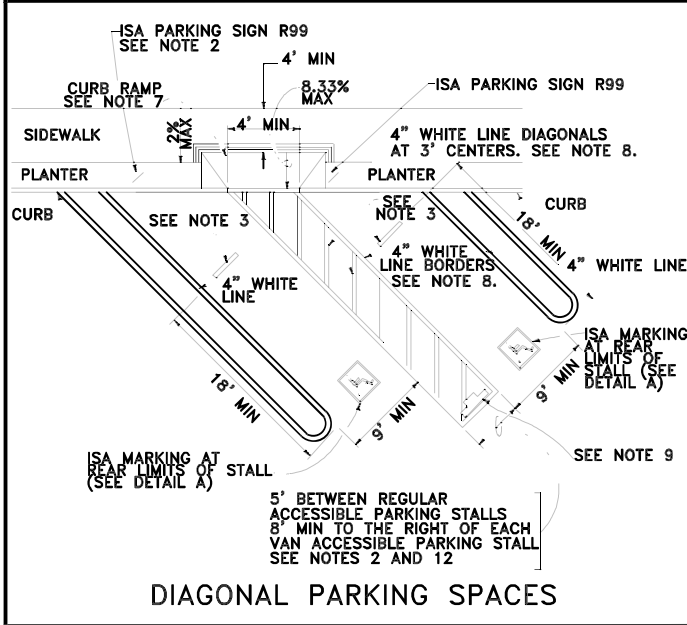
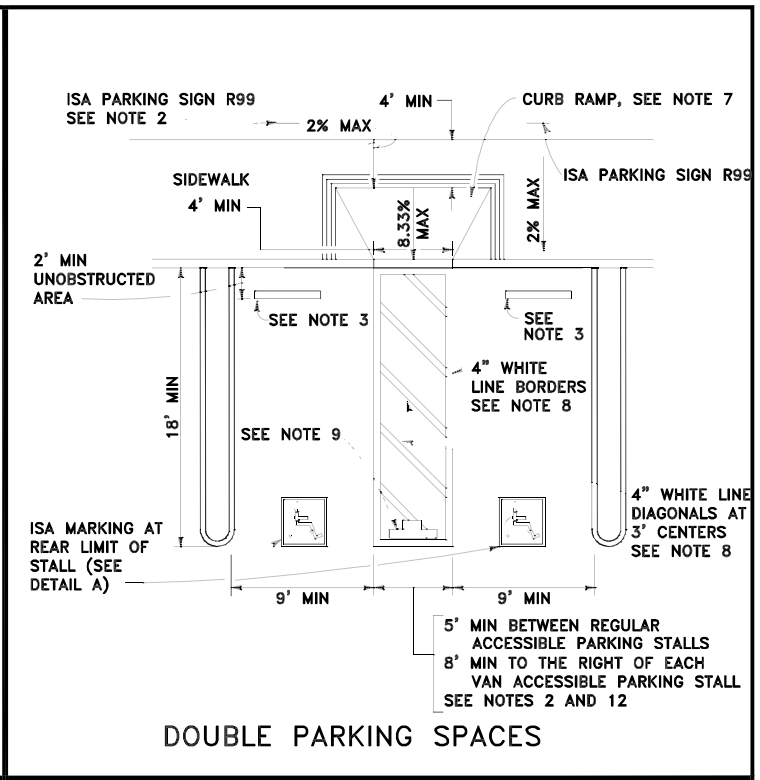
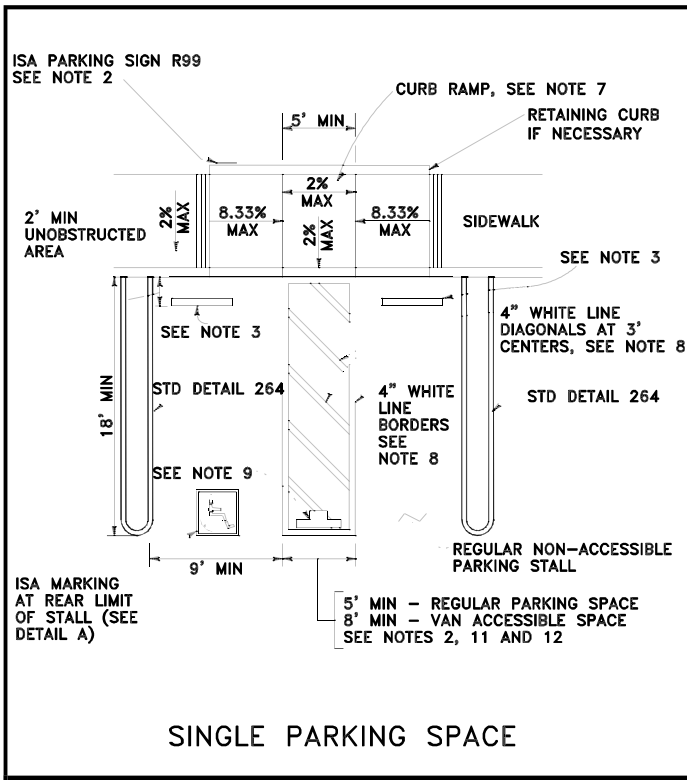


NOTES:

1. ALL OFF-STREET PARKING SHALL COMPLY WITH SECTION 29.10.155 OF THE LOS GATOS TOWN CODE.

NOT TO SCALE

APPROVED BY	DATE		OFF-STREET PARKING DOUBLE STRIPE	STD. PLAN NO.
<i>Kevin Alfari</i>	NOVEMBER 2010			ST-264
TOWN ENGINEER				



VAN ACCESSIBLE

VAN ACCESSIBLE SIGN (R99A)
STANDARD 12" X 8"
SEE NOTES 2 AND 6

PARKING ONLY

ISA PARKING SIGN (R99)
STANDARD 12" X 18"
SEE NOTE 6

White ISA

4" WHITE BORDER

Blue BACKGROUND

NO PARKING

2"

1.6"

PARKING FOR ACCESSIBLE PARKING SPACE OR STALL

SIGN (R100B)
STANDARD 18" X 24"
SEE NOTE 10

DETAIL A

ISA = INTERNATIONAL SYMBOL OF ACCESSIBILITY

Number of Accessible Parking:



TOTAL NUMBER OF PARKING SPACES OR STALLS	MINIMUM NUMBER OF DISABLED ACCESSIBLE PARKING SPACES OR STALLS
1-25	1
26-50	2
51-75	3
76-100	4
101-150	5
151-200	6
201-300	7
301-400	8
401-500	9
501-1000	2% OF TOTAL
>1000	20 + 1 FOR EACH 100 OR FRACTION THEREOF OVER 1001

TABLE A

APPROVED BY	DATE		ACCESSIBLE PARKING (CBC Section 1129B) PLEASE REFER TO NOTES ON ST-266	STD. PLAN NO.
<i>Kevin Pappai</i>	NOVEMBER 2010			ST-265
TOWN ENGINEER				

NOTES:

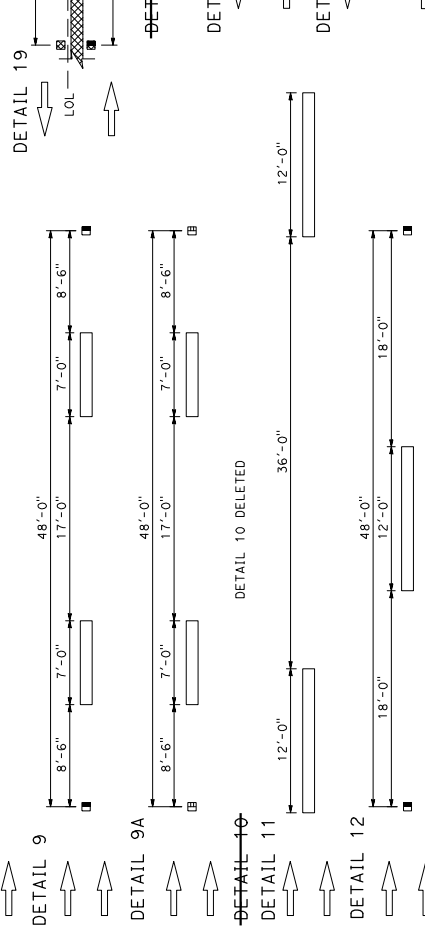
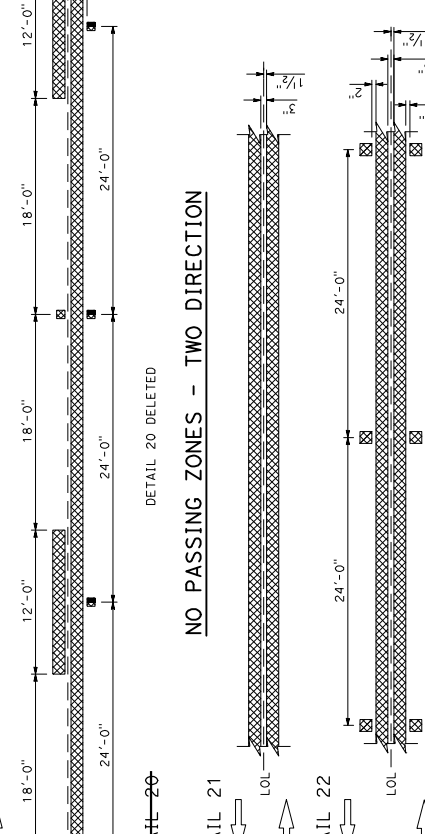
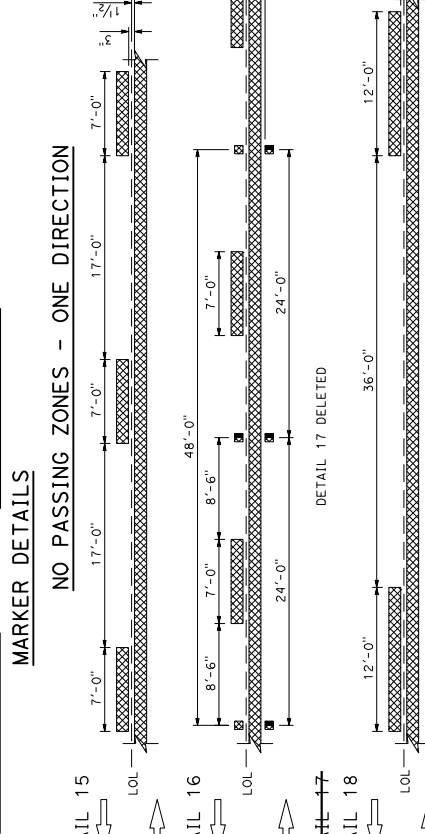
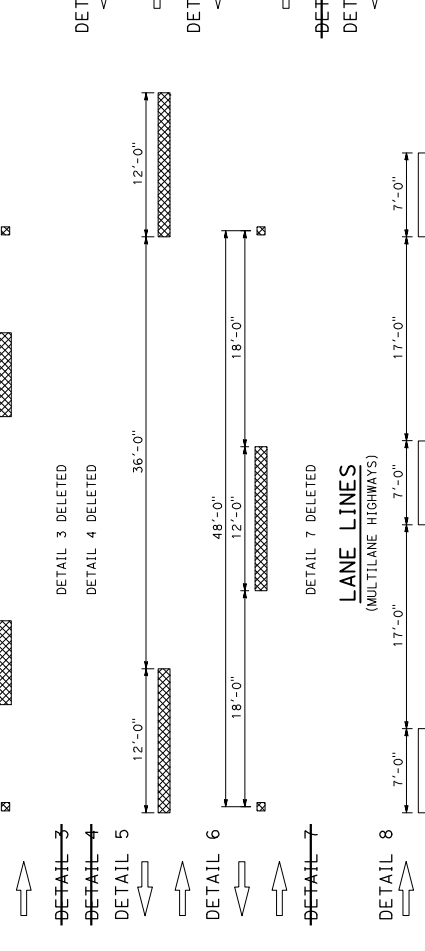
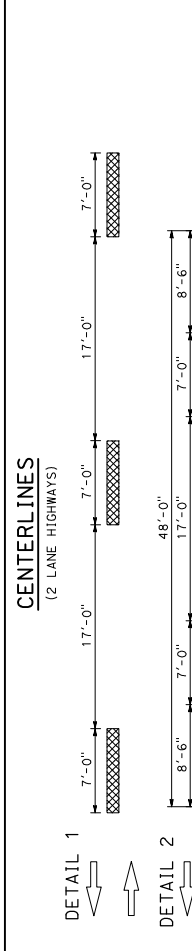
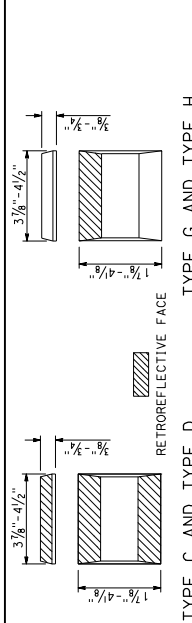
1. ACCESSIBLE PARKING SPACES SERVING A PARTICULAR BUILDING SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE ENTRANCE. IN PARKING FACILITIES THAT DO NOT SERVE A PARTICULAR BUILDING, ACCESSIBLE PARKING SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL TO AN ACCESSIBLE PEDESTRIAN ENTRANCE OF THE PARKING FACILITY.
2. ONE IN EVERY EIGHT ACCESSIBLE OFF-STREET PARKING STALLS, BUT NOT LESS THAN ONE, SHALL BE SERVED BY AN ACCESSIBLE AISLE OF 8' MIN WIDTH AND SHALL BE SIGNED VAN ACCESSIBLE. THE R99A "VAN ACCESSIBLE" SIGN SHALL BE MOUNTED BELOW THE R99 "ISA PARKING" SIGN.
3. IN EACH PARKING STALL, A CURB OR BUMPER SHALL BE PROVIDED AND LOCATED TO PREVENT ENCROACHMENT OF VEHICLES OVER THE REQUIRED WIDTH OF WALKWAYS. PARKING STALLS SHALL BE SO LOCATED THAT PERSONS WITH DISABILITIES ARE NOT COMPELLED TO WHEEL OR WALK BEHIND PARKED VEHICLES OTHER THAN THEIR OWN.
4. SURFACE SLOPES OF ACCESSIBLE OFF-STREET PARKING STALLS SHALL BE THE MINIMUM POSSIBLE AND SHALL NOT EXCEED 2% IN ANY DIRECTION.
5. TABLE A SHALL BE USED TO DETERMINE THE REQUIRED NUMBER OF ACCESSIBLE PARKING STALLS IN ANY PARKING LOT OR GARAGE.
6. WHERE R99 "ISA PARKING" OR R99A "VAN ACCESSIBLE" SIGNS ARE INSTALLED ON SIDEWALKS OR OTHER PATHS OF TRAVEL, THE BOTTOM OF THE SIGN PANEL SHALL BE A MINIMUM OF 6'8" ABOVE THE SURFACE OF THE SIDEWALK OR PATH.
7. CURB RAMPS SHALL CONFORM TO THE STANDARD DETAIL 220-222.
8. BUILDING PERMIT(S) REQUIRED FOR NEW AND RESTRIPIING OF EXISTING PARKING LOTS.
9. THE WORDS "NO PARKING" SHALL BE PAINTED IN WHITE LETTERS NO LESS THAN 12" HIGH AND LOCATED SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICIALS.
10. A R100B SIGN SHALL BE POSTED IN A CONSPICUOUS PLACE AT EACH ENTRANCE TO OFF-STREET PARKING FACILITIES OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL. THE SIGN SHALL INCLUDE THE ADDRESS WHERE THE TOWED VEHICLE MAY BE RECLAIMED AND THE TELEPHONE NUMBER OF THE LOCAL TRAFFIC LAW ENFORCEMENT AGENCY.
11. WHERE A SINGLE (NON-VAN) ACCESSIBLE PARKING SPACE IS PROVIDED, THE LOADING AND UNLOADING ACCESS AISLE SHALL BE ON THE PASSENGER SIDE OF THE VEHICLE AS THE VEHICLE IS GOING FORWARD INTO THE PARKING SPACE.
12. WHERE A VAN ACCESSIBLE PARKING SPACE IS PROVIDED, THE LOADING AND UNLOADING ACCESS AISLE SHALL BE 8' WIDE MINIMUM, AND SHALL ONLY BE ON THE PASSENGER SIDE OF THE VEHICLE AS THE VEHICLE IS GOING FORWARD INTO THE PARKING SPACE.

APPROVED BY	DATE		ACCESSIBLE PARKING NOTES (CBC Section 1129B)	STD. PLAN NO.
	NOVEMBER 2010			ST-266
TOWN ENGINEER				

DIST	COUNTY	ROUTE	FIRST MILE TOTAL PROJECT	SHEET TOTAL NO. SHEETS

REGISTERED CIVIL ENGINEER
Mark Bohanan
 No. C83390
 Exp. 3-31-27
 STATE OF CALIFORNIA

PROFESSIONAL ENGINEER
 Seal No. 172, 07/1/08
 THE STATE BOARD OF PROFESSIONAL ENGINEERS AND SURVEYORS
 SEPTEMBER 19, 2025
 THIS SEAL IS VALID FOR THE STATE OF CALIFORNIA
 THE USER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS PLAN SHEET.



- LEGEND:**
- TYPE C RED-CLEAR RETROREFLECTIVE MARKER
 - TYPE D TWO-WAY YELLOW RETROREFLECTIVE MARKER
 - TYPE G ONE-WAY CLEAR RETROREFLECTIVE MARKER
 - TYPE H ONE-WAY YELLOW RETROREFLECTIVE MARKER
 - 6" WHITE LINE
 - 6" YELLOW LINE

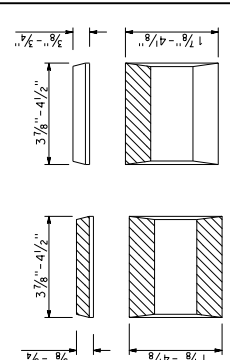
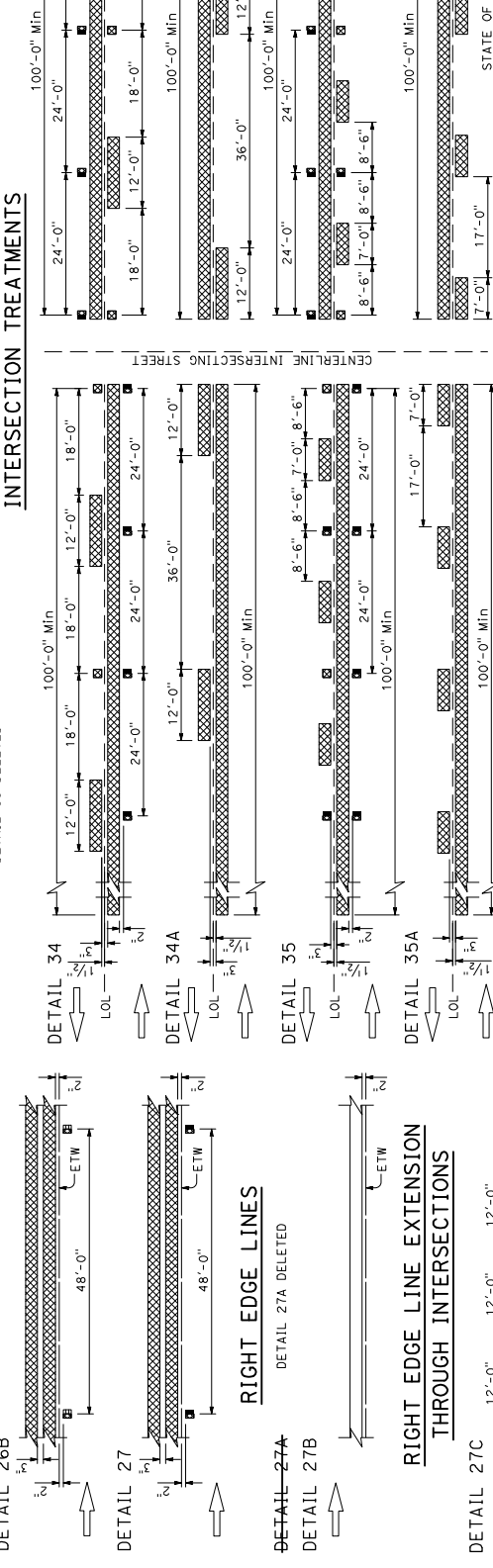
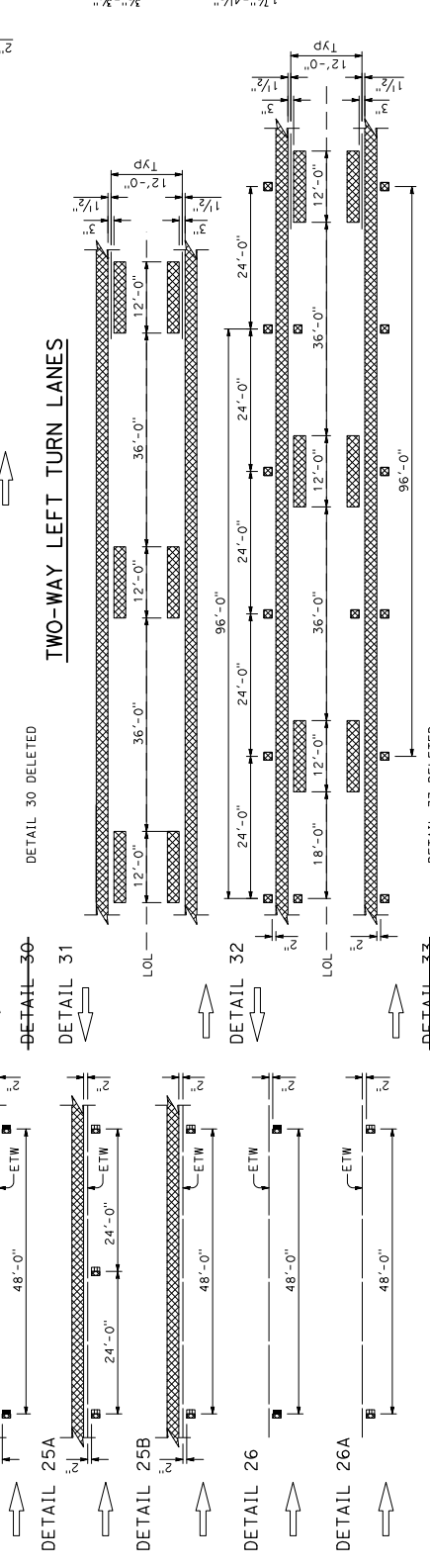
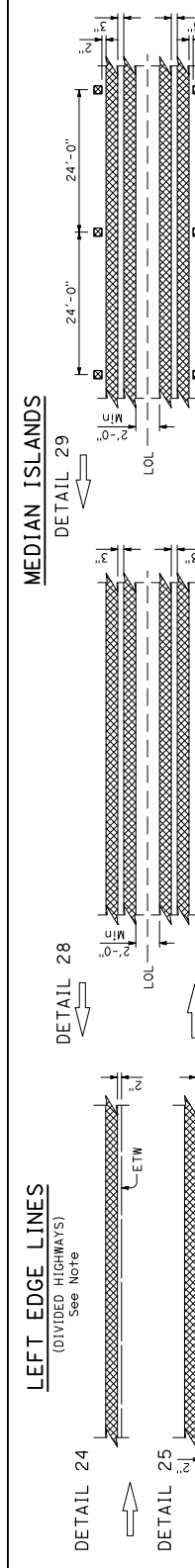
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKERS AND TRAFFIC LINES
TYPICAL DETAILS
 NO SCALE

A20A

DIR#	COUNTY	ROUTE	FIRST MILE TOTAL PROJECT	SHEET TOTAL SHEETS

REGISTERED CIVIL ENGINEER
Mark Rogovin
 September 19, 2025
 EXPIRES: 9/19/2028
 No. CE83390
 Exp. 3-31-27
 CIVIL
 STATE OF CALIFORNIA

I, **Mark Rogovin**, REGISTERED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT I AM THE DESIGNER OF THIS PLAN SHEET. THE DATE OF THIS CERTIFICATE IS SEPTEMBER 19, 2025. I AM NOT PROVIDING THIS CERTIFICATE FOR ANY OTHER PROJECTS. I AM NOT PROVIDING THIS CERTIFICATE FOR ANY OTHER PROJECTS. I AM NOT PROVIDING THIS CERTIFICATE FOR ANY OTHER PROJECTS.



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINES
TYPICAL DETAILS

NO SCALE

A20B

LEGEND:

- TYPE D TWO-WAY YELLOW RETROREFLECTIVE MARKER
- TYPE H ONE-WAY YELLOW RETROREFLECTIVE MARKER
- TYPE RY RED-YELLOW RETROREFLECTIVE MARKER
- 6" WHITE
- 6" YELLOW

LEFT EDGE LINES NOTE:
On freeways use traffic stripe details with Type RY markers.

DIST	COUNTY	ROUTE	FIRST MILE TOTAL PROJECT NO.	SHEET TOTAL SHEETS

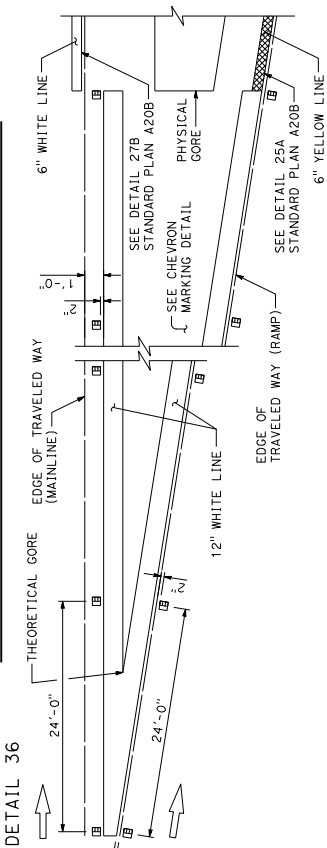
REGISTERED CIVIL ENGINEER
Amik Rehman
 No. C83390
 Exp. 3-31-27
 STATE OF CALIFORNIA

PROFESSIONAL ENGINEER
 Amik Rehman
 No. C83390
 Exp. 3-31-27
 STATE OF CALIFORNIA

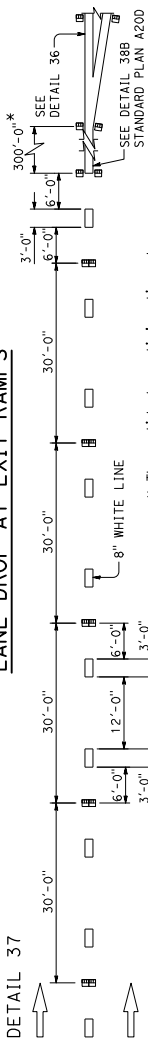
September 19, 2025
 THE DATE OF THIS DRAWING IS THE DATE OF THE CONTRACT. THE DATE OF THIS DRAWING IS THE DATE OF THE CONTRACT. THE DATE OF THIS DRAWING IS THE DATE OF THE CONTRACT.

- NOTES:**
1. Install a minimum of 1 chevron in the gore area, if at least 1 chevron will not fit into the gore area, do not install chevrons.
 2. Terminate chevron markings at physical gore.
 3. Gore area chevron pavement markings shown. For exit and entrance ramp channelizing lines details, see Details 36, 36A, and 36B.

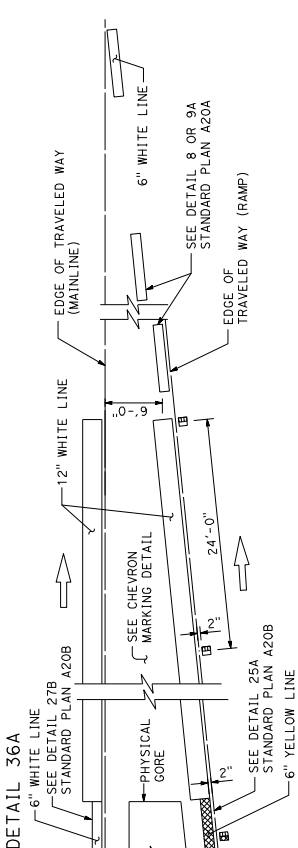
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



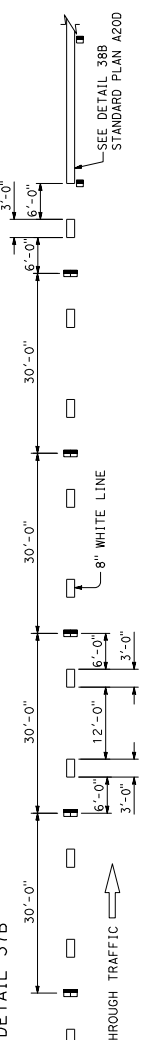
LANE DROP AT EXIT RAMPS



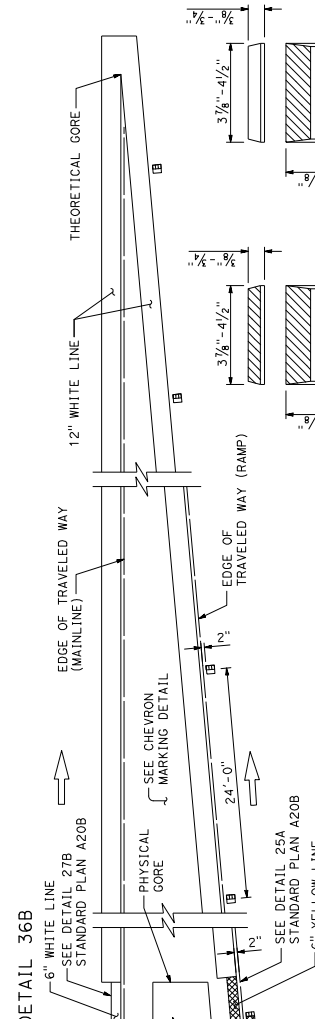
ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



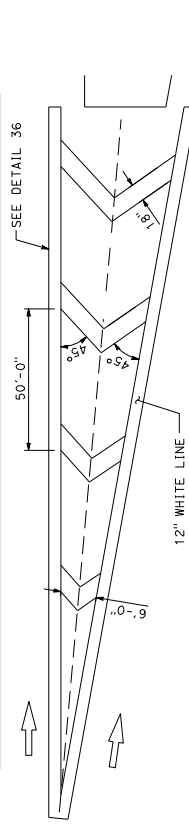
LANE DROP AT INTERSECTIONS



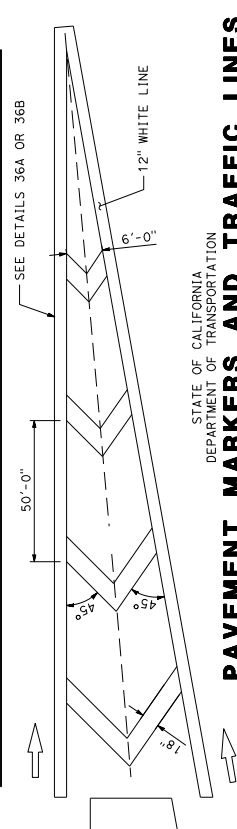
ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT



CHEVRON PAVEMENT MARKINGS AT EXIT RAMP GORE AREA



CHEVRON PAVEMENT MARKINGS AT ENTRANCE RAMP GORE AREA



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKERS AND TRAFFIC LINES
TYPICAL DETAILS
 NO SCALE

LEGEND:

- TYPE C RED-CLEAR RETROREFLECTIVE MARKER
- TYPE G ONE-WAY CLEAR RETROREFLECTIVE MARKER
- TYPE RY RED-YELLOW RETROREFLECTIVE MARKER

MARKER DETAILS

TYPE C AND TYPE RY TYPE G

A20C

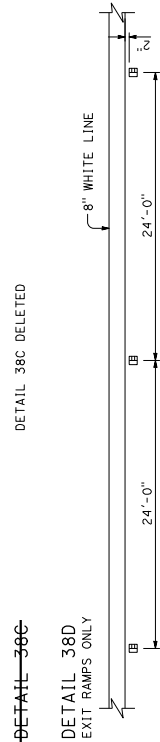
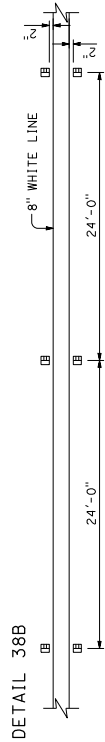
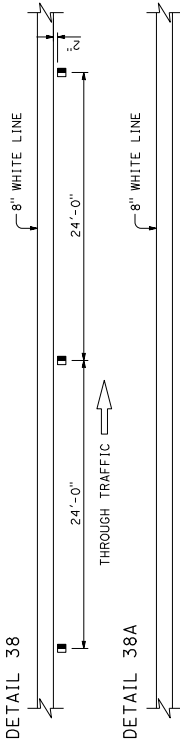
DI+ COUNTY ROUTE PROJECT TOTAL SHEET TOTAL
NO. PROJECT NO. SHEETS

REGISTERED CIVIL ENGINEER
Mohamed Elmaghrabi

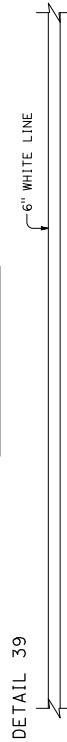
September 19, 2025
DATE OF CONTRACT
NO. CR8390
PROJECT NO. 3-31-27
STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER

THE STATE OF CALIFORNIA
DIVISION OF HIGHWAYS
OFFICE OF THE CHIEF ENGINEER
OFFICE OF THE CHIEF ENGINEER
OFFICE OF THE CHIEF ENGINEER

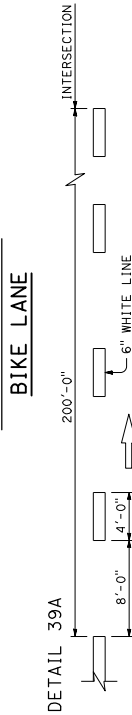
CHANNELIZING LINE



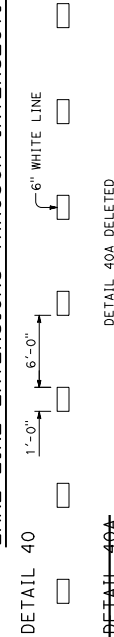
BIKE LANE



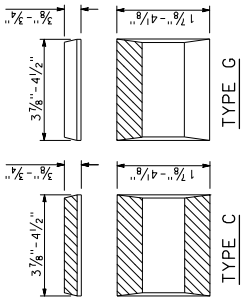
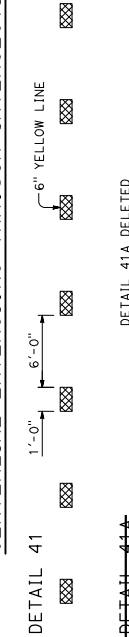
INTERSECTION BIKE LANE



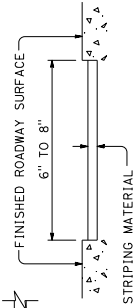
LANE LINE EXTENSIONS THROUGH INTERSECTIONS



CENTERLINE EXTENSIONS THROUGH INTERSECTIONS



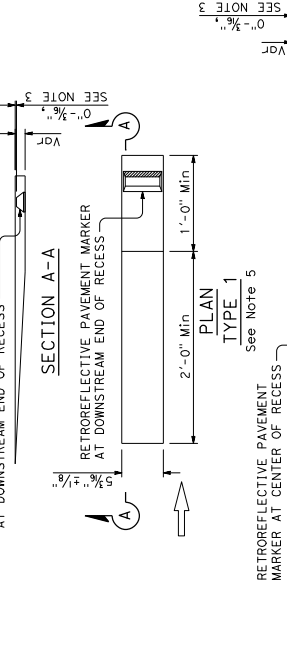
MARKER DETAILS



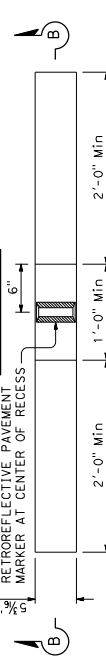
RECESSED NOTES:

- See typical traffic line details for pavement marking patterns.
- See Standard Specifications for Highway Construction, Section 305, for striping material thickness.

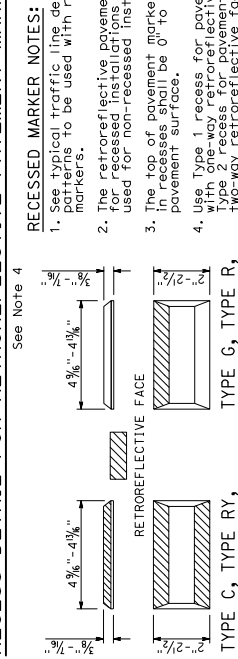
RETRORFLECTIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS



RETRORFLECTIVE PAVEMENT MARKER AT CENTER OF RECESS



RECESS DETAIL FOR RETROREFLECTIVE PAVEMENT MARKER



RETRORFLECTIVE PAVEMENT MARKER FOR RECESSED INSTALLATION

See Notes 1 and 2

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKERS AND TRAFFIC LINES
TYPICAL DETAILS**

NO SCALE

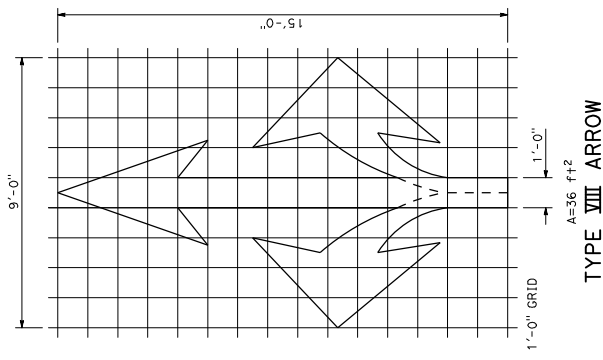
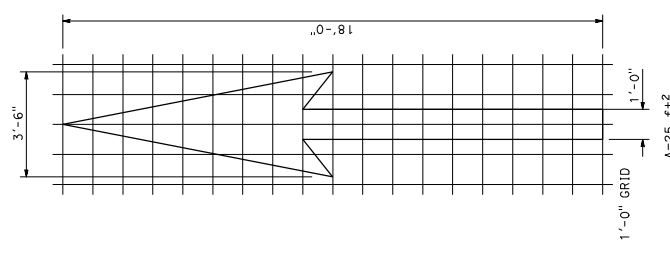
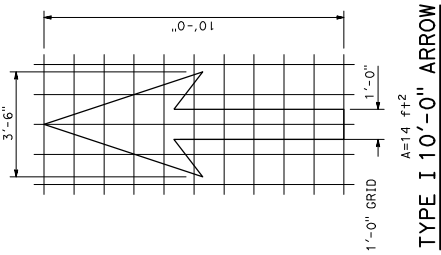
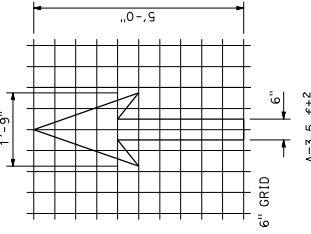
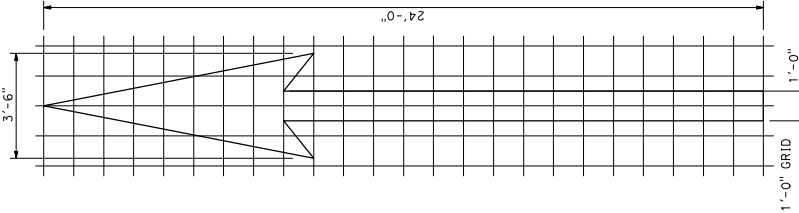
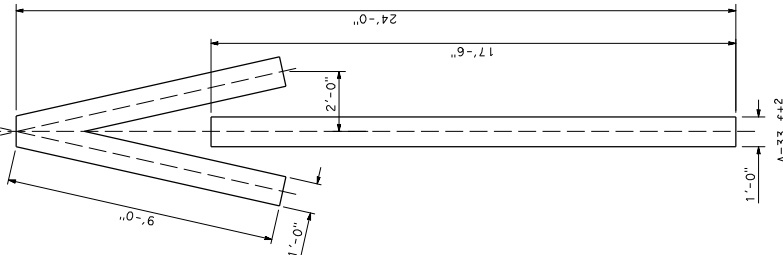
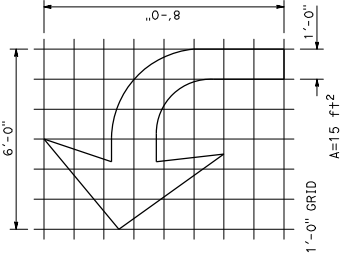
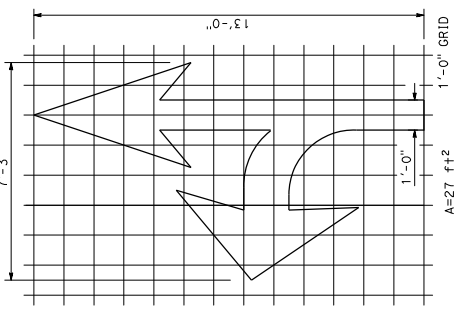
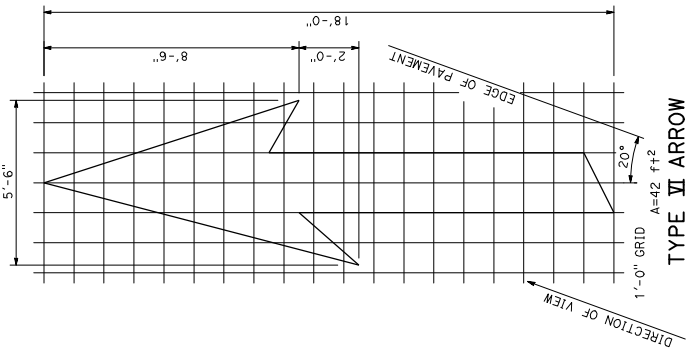
A20D

DIST	COUNTY	ROUTE	FIRST MILE TOTAL PROJECT	SHEET TOTAL NO. SHEETS

Mark Sheehan
 REGISTERED CIVIL ENGINEER
 No. CR83390
 Exp. 3-31-27
 STATE OF CALIFORNIA
 PROFESSIONAL ENGINEER

September 19, 2025
 CONTRACT DATE
 THE DATE OF THIS PLAN SHEET
 OR ACTS SHALL NOT BE RESPONSIBLE FOR
 THE ACCURACY OR COMPLETENESS OF THIS PLAN SHEET.

NOTE:
 1. Minor variations in dimensions may be accepted by the Engineer.



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS
ARROWS
 NO SCALE

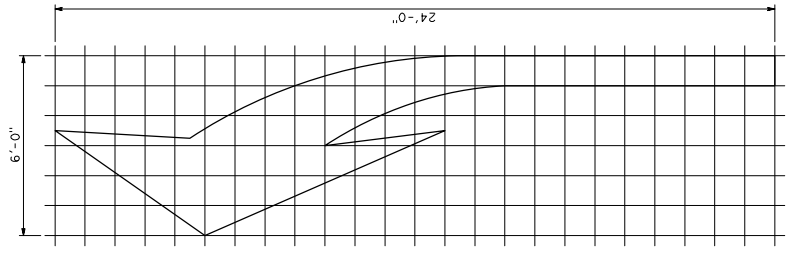
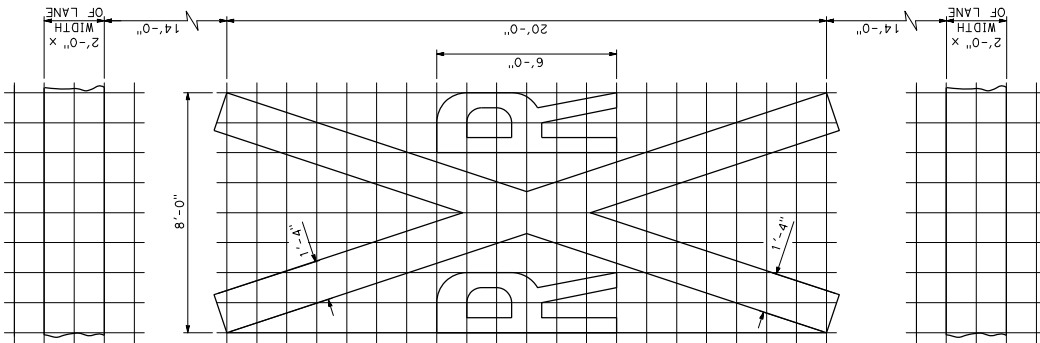
A 24A

DIST	COUNTY	ROUTE	FIRST MILE TOTAL PROJECT	SHEET TOTAL NO. SHEETS

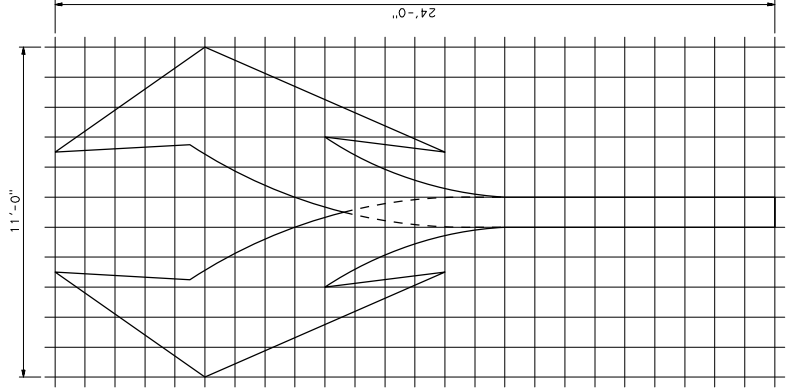
REGISTERED CIVIL ENGINEER
Mark Shepard
 No. CB8390
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER
 No. 3-31-27
 CIVIL
 STATE OF CALIFORNIA

September 19, 2025
 CONTRACT DATE
 THE STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 AND HIGHWAYS SHALL NOT BE RESPONSIBLE FOR
 THE ACCURACY OF THE INFORMATION CONTAINED
 HEREON UNLESS SPECIFICALLY NOTED OTHERWISE
 ON THESE PLANS.

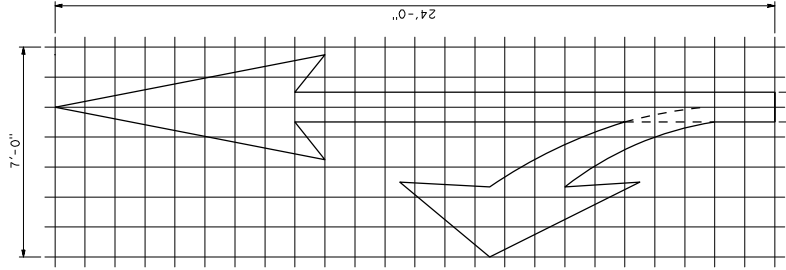
NOTE:
1. Minor variations in dimensions may be accepted by the Engineer.



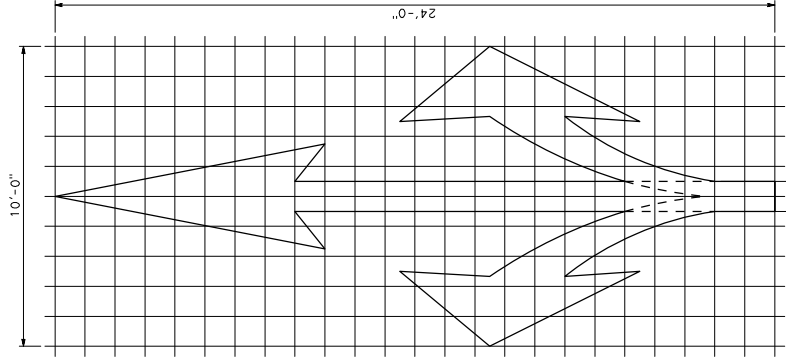
TYPE III (L) ARROW
A=42 ft+2
For Type III (R) use mirror image.



TYPE III (B) ARROW
A=73 ft+2



TYPE II (L) ARROW
A=45 ft+2
For Type II (R) use mirror image.



TYPE II (B) ARROW
A=59 ft+2

RAILROAD CROSSING SYMBOL
A=70 ft+2*
*70 SOFT does not include the 2'-0" x variable width transverse lines.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
ARROWS AND SYMBOLS**
NO SCALE

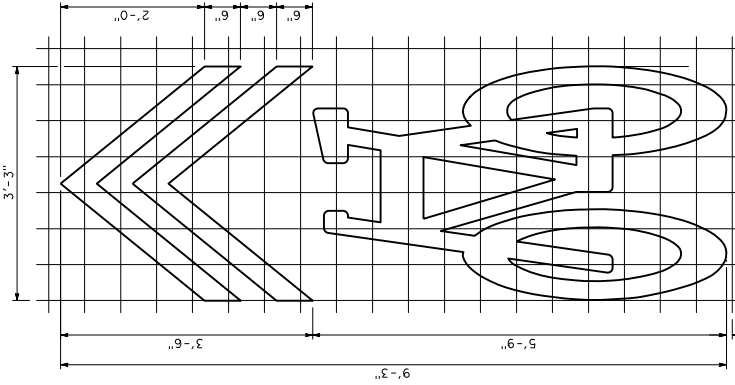
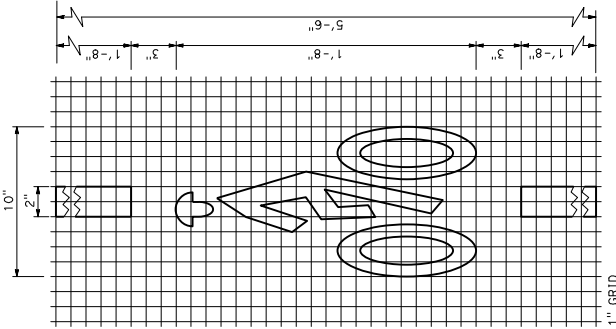
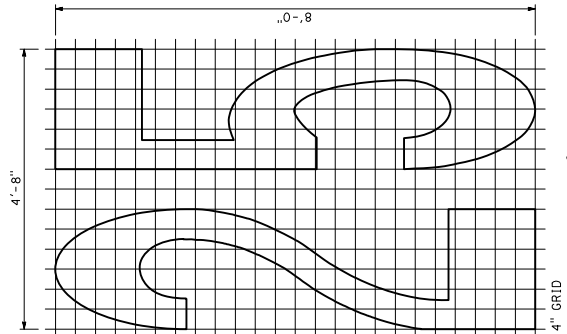
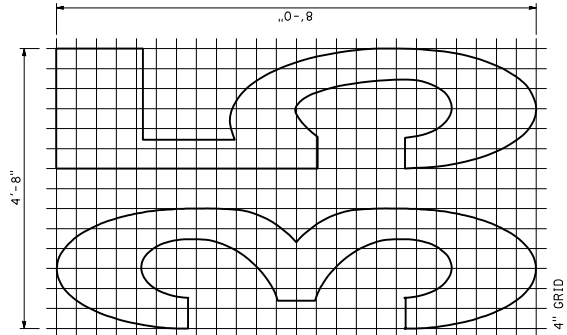
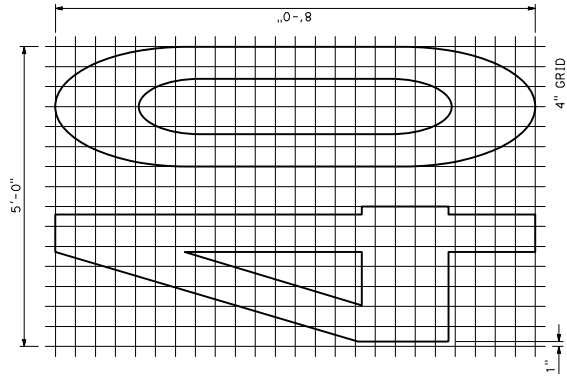
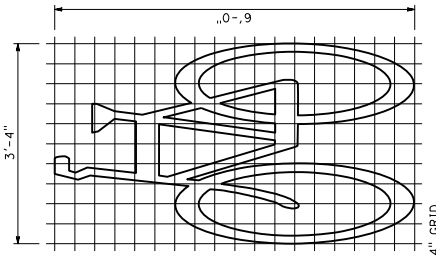
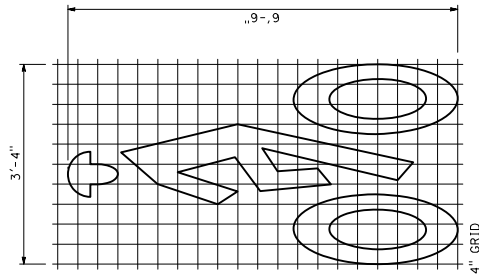
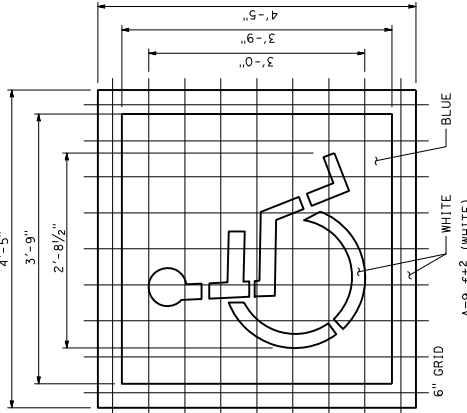
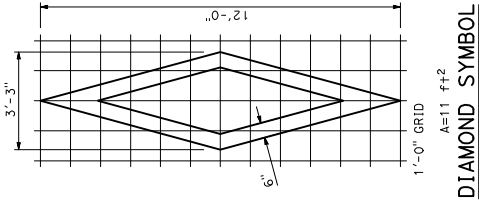
A 24B

DIST	COUNTY	ROUTE	FIRST MILE TOTAL PROJECT NO.	SHEET TOTAL SHEETS

REGISTERED CIVIL ENGINEER
Mark Sheppard
 No. C83390
 STATE OF CALIFORNIA
 PROFESSIONAL ENGINEER

September 19, 2025
 EXPIRES: 09/19/2028
 THE STATE BOARD OF PROFESSIONAL ENGINEERS AND ARCHITECTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THESE PLANS SHEETS.

NOTE:
1. Minor variations in dimensions may be accepted by the Engineer.



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
 SYMBOLS AND NUMERALS**
 NO. SCALE

A 24C

DIST#	COUNTY	ROUTE	FIRST MILE TOTAL PROJECT NO.	SHEET TOTAL SHEETS

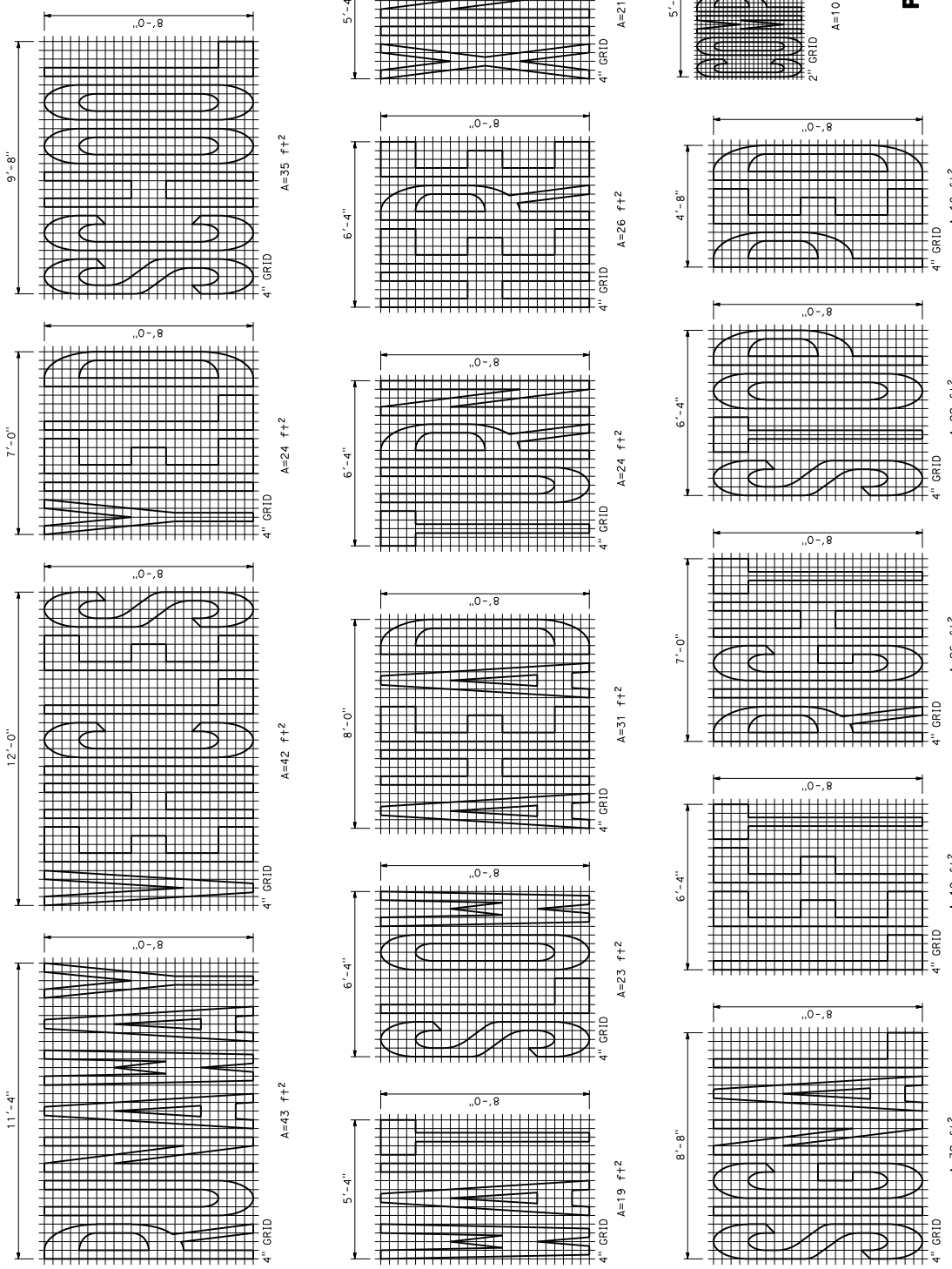
REGISTERED CIVIL ENGINEER
Mohd Rehan
 No. CB83390
 STATE OF CALIFORNIA
 PROFESSIONAL ENGINEER

September 19, 2025
 EXPIRES: 12/31/27
 THE STATE BOARD OF PROFESSIONAL ENGINEERS AND SURVEYORS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS OF THIS PLAN SHEET.

NOTES:

1. If a message consists of more than one word, it must read 'up', i.e., the first word must be nearest the driver.
2. The space between words must be at least four times the character height. The space may be reduced appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.

ITEM	f+t	ITEM	f+t
RUNWAY	43	VEHICLES	42
YIELD	24	SCHOOL	35
WAIT	19	SLOW	23
AHEAD	31	TURN	24
HERE	26	XING	21
SIGNAL	32	LEFT	19
RIGHT	26	STOP	22
PEDESTRIAN	18	COMPACT	10
BIKE	5	LANE	6



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS
WORDS
NO SCALE

A 24D

DIST	COUNTY	ROUTE	FIRST MILE TOTAL PROJECT NO.	SHEET TOTAL SHEETS

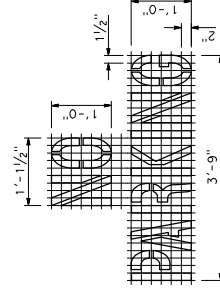
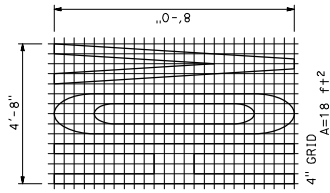
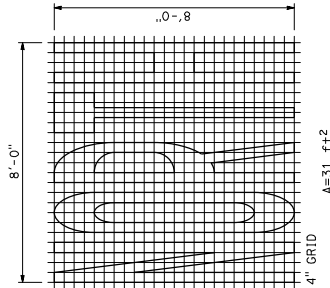
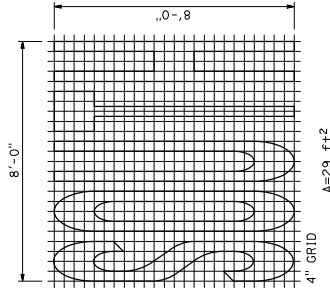
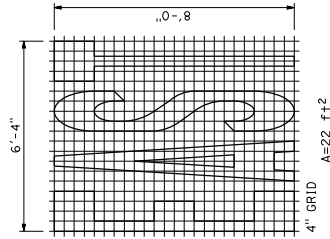
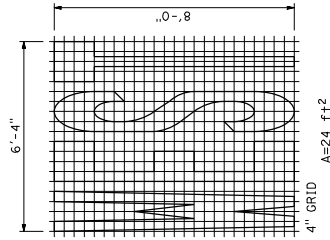
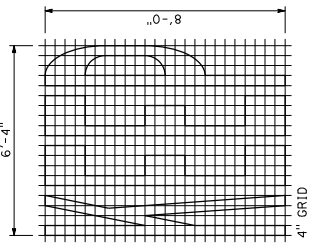
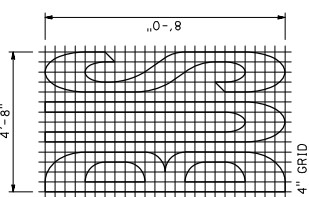
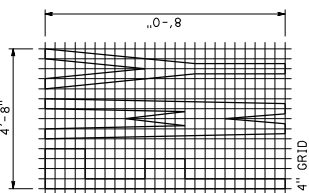
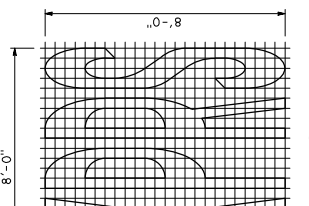
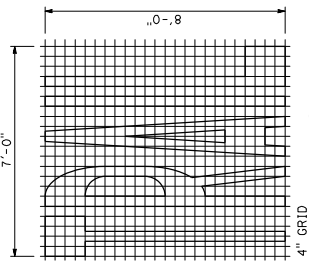
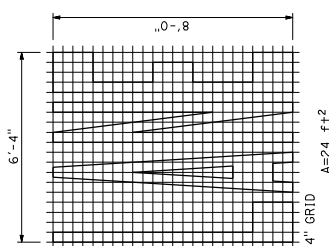
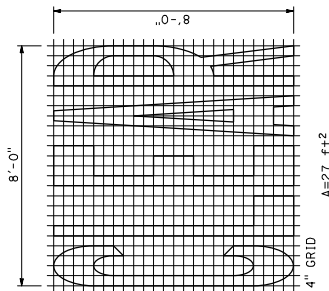
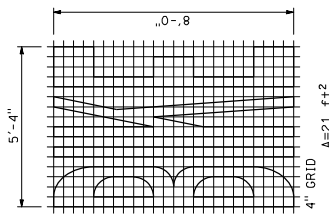
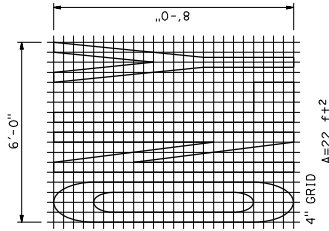
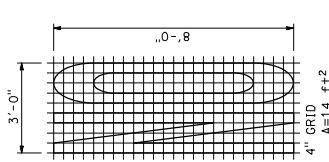
Mark Bohanan
REGISTERED CIVIL ENGINEER

September 19, 2025
EXPIRES PROFESSIONAL ENGINEER
MAILING REFERENCE NO. C83390
NO. 3-31-27
STATE OF CALIFORNIA
THE STATE BOARD OF PROFESSIONAL ENGINEERS
FOR AGENCIES SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THESE PLANS SHEETS.

NOTES:

- If a message consists of more than one word, it should be placed "upside", i.e., the first word must be nearest the driver.
- The space between words must be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
- Minor variations in dimensions may be accepted by the Engineer.
- Portions of a letter, number, or symbol may be separated by connecting segments not to exceed 2" in width.
- The words "NO PARKING" pavement marking is to be used for parking facilities. For typical details of markings, see Standard Plans A90A and A90B.
- The words "NO PARKING", shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.

ITEM	SOFT	ITEM	SOFT	ITEM	SOFT
LANE	24	CLEAR	27	BIKE	21
ONLY	22	NO	14	KEEP	24
BUS	20	FWY	16	EXPRS	30
TRAIL	23	HOV	18	NORTH	31
SOUTH	29	EAST	22	WEST	24
NO PARKING	2				

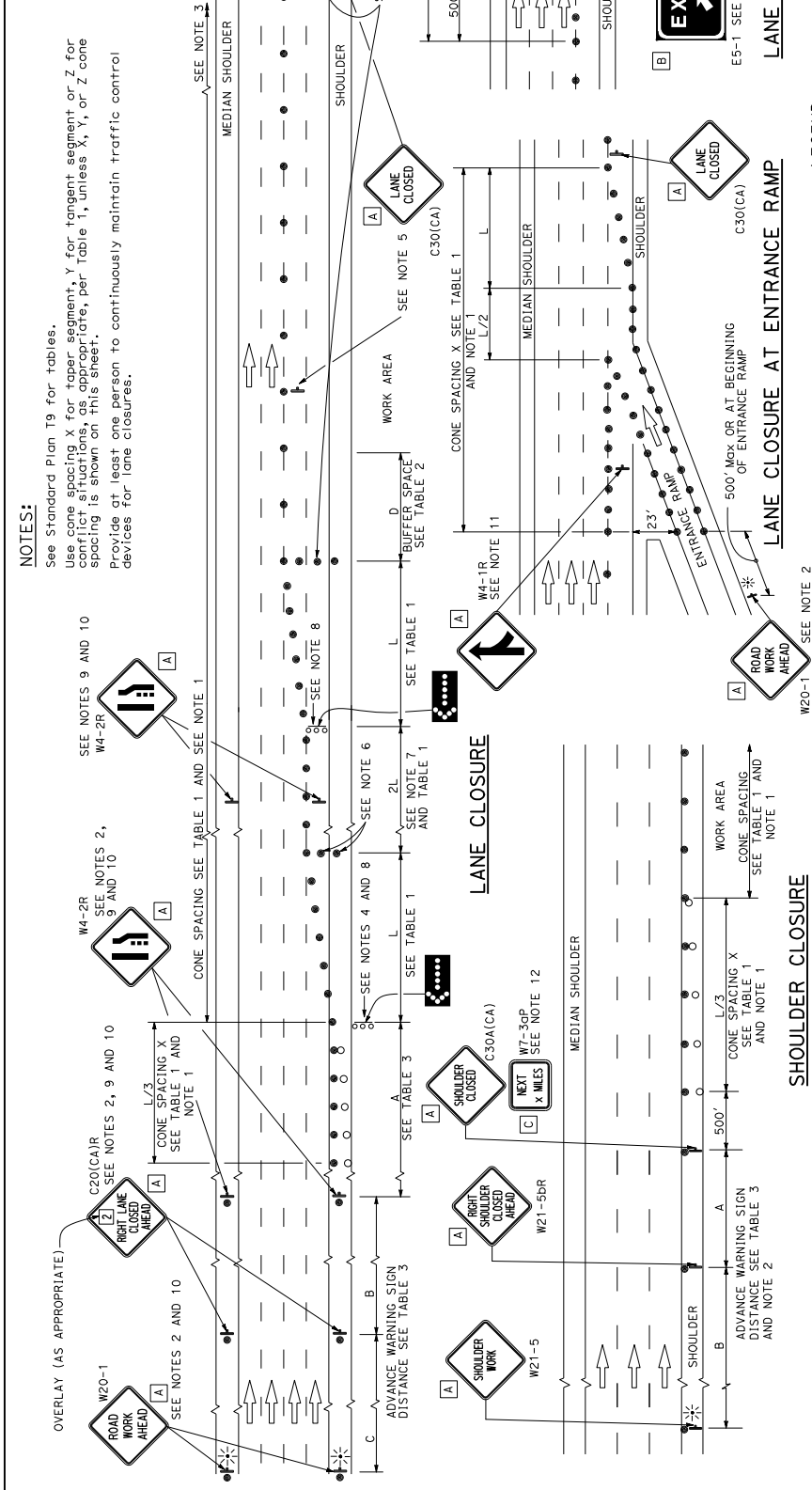


See Notes 5 and 6

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS
WORDS
NO SCALE

A 24E

DIR# COUNTY ROUTE FIRST MILES TOTAL PROJECT SHEET TOTAL NO. SHEETS
 REGISTERED CIVIL ENGINEER
 September 19, 2025
 PROFESSIONAL ENGINEER
 No. C83390
 No. 3-31-27
 STATE OF CALIFORNIA
 CIVIL
 THE STATE BOARD OF PROFESSIONAL ENGINEERS
 THIS STATE BOARD OF PROFESSIONAL ENGINEERS
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR
 THE ACCURACY OR COMPLETENESS OF ANY
 COPIES OF THIS PLAN SHEET.



- NOTES:**
- Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
 - Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the top of each post for lane closure during hours of darkness.
 - A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end work area is obvious or ends within the larger project's limits.
 - A minimum 1500' sight distance shall be provided for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of a crest vertical curve or on a horizontal curve.
 - Place a C30(CA) sign every 1000' throughout length of lane closure.
 - A minimum of 3 cones shall be placed transversely across a traffic lane ends and every 1000' as shown on the "Lane Closure" detail. Two type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
 - The 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
 - Use one flashing arrow sign for each lane closed. The flashing arrow sign shall be Type I.
 - Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
 - Duplicate sign installations are not required:
 - On opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
 - The E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
 - A W7-3aP "NEXT MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.
 - For the warning sign requirements at the Exit Ramp, W4-1R is placed on the local street, see CA MUTCD Figure 6H-22 to 6H-27.



LEGEND

●	TRAFFIC CONE	A	48" x 48"
○	TRAFFIC CONE (OPTIONAL TAPER)	B	72" x 60"
⬇	TEMPORARY TRAFFIC CONTROL SIGN	C	36" x 30"
⬆	FLASHING ARROW SIGN (FAS)		
⬆	FAS SUPPORT OR TRAILER		
✱	PORTABLE FLASHING BEACON		

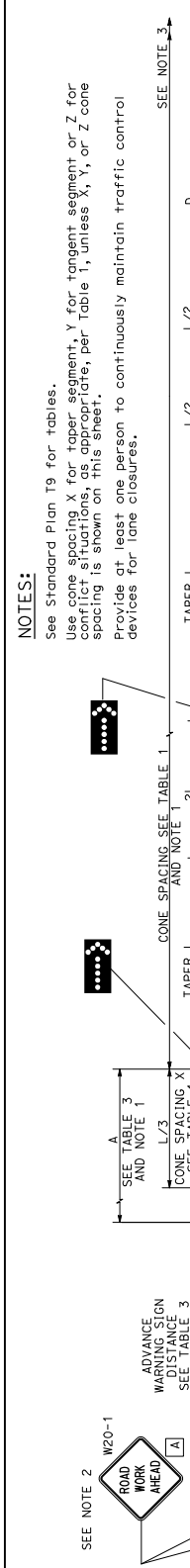
TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

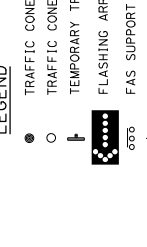
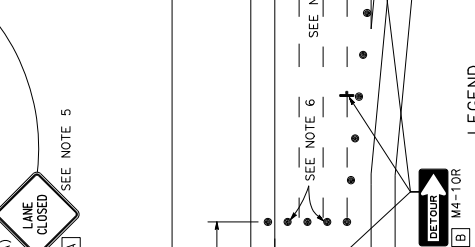
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

T10

SHEET TOTAL
 NO. OF SHEETS
 PROJECT NO.
 COUNTY ROUTE
 REGISTERED CIVIL ENGINEER
 September 19, 2025
 PROFESSIONAL ENGINEER
 No. CR8390
 Exp. 3-31-27
 STATE OF CALIFORNIA
 CIVIL
 THE STATE BOARD OF PROFESSIONAL ENGINEERS
 OR ARCHITECTS
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR
 THE ACCURACY OR COMPLETENESS OF THESE
 CONCEPTS OF THIS PLAN SHEET.



NOTES:
 See Standard Plan T9 for tables.
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
 Provide at least one person to continuously maintain traffic control devices for lane closures.



- NOTES:**
- Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
 - Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at each end of the advance warning sign during hours of darkness.
 - A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
 - A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
 - Place a C30(CA) sign every 1000' throughout length of lane closure.
 - A minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper, across a traffic lane ends and every 1000' as shown on the plan view. Portable delineators may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
 - The 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
 - Use one flashing arrow sign for each lane closed. The flashing arrow sign shall be Type I.
 - Lane closures on the right side using partial median shoulder C20(CA)R and W4-2R signs shall be used.
 - A minimum of two Type II or III barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. When complete closure area, the closure area alignment, complete closure area, the closed shoulder alignment, complete closure area, the closure area alignment, complete closure area, the closure area alignment to provide access to the work.

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN
- ⬇ FLASHING ARROW SIGN (FAS)
- ⬇ FAS SUPPORT OR TRAILER
- ⊛ PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

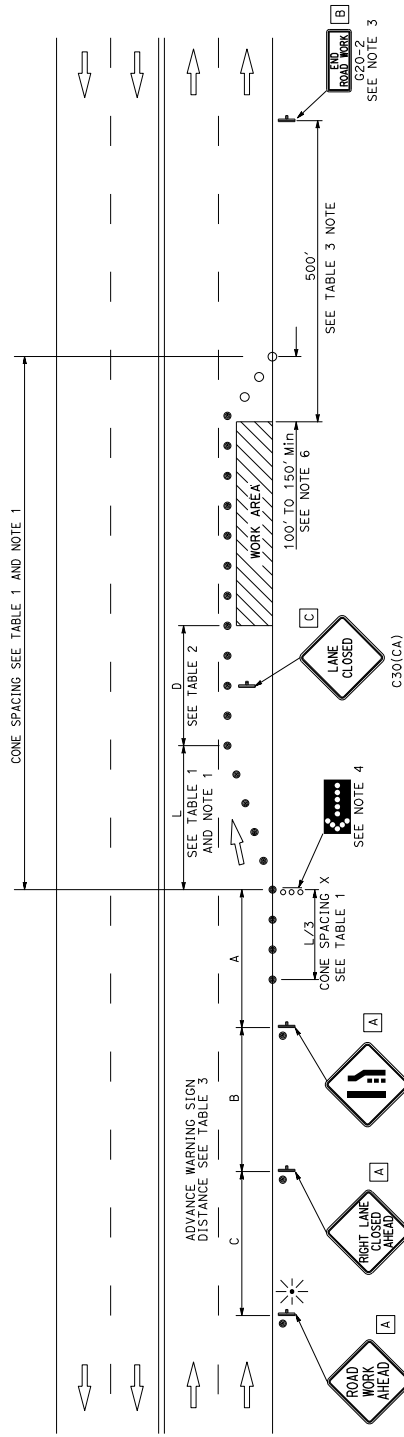
- A 48" x 48"
- B 48" x 18"
- C 48" x 30"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 FREEWAYS AND EXPRESSWAYS**
 NO SCALE
T10A

DIST	COUNTY	ROUTE	FIRST MILE TOTAL PROJECT	SHEET TOTAL SHEETS

REGISTERED CIVIL ENGINEER
 Mark Schraab
 No. CR8390
 Exp. 3-31-27
 STATE OF CALIFORNIA
 PROFESSIONAL ENGINEER

September 19, 2025
 DATE OF WORK
 THE DATE OF WORK DATE FOR THE OFFICER
 OR AGENT SHALL NOT BE RESPONSIBLE FOR
 THE ACCURACY OF THIS PLAN SHEET
 UNLESS OF THIS PLAN SHEET



TYPICAL LANE CLOSURE

NOTES:

See Standard Plan T9 for tables.
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
 Provide at least one person to continuously maintain traffic control devices for lane closures.

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 36" x 18"
- C 30" x 30"

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- † TEMPORARY TRAFFIC CONTROL SIGN
- ⬮ FLASHING ARROW SIGN (FAS)
- ⬮ FAS SUPPORT OR TRAILER
- ⬮ PORTABLE FLASHING BEACON

NOTES:

- Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
- Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 'END ROAD WORK' sign shall be placed at the end of the lane closure unless the end of work area is obvious or ends within the larger project's limits.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.

- Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work area.
- Length may be reduced by the Engineer to address site conditions.
- Median lane closures shall conform to the details shown except that C20(CA) and W4-2L signs shall be used.
- For approach speeds over 50 MPH, use the "Traffic Control System for Lane Closure on Freeways and Expressways" plan for lane closure details and requirements.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 MULTILANE CONVENTIONAL HIGHWAYS**

NO SCALE

T11

DIST	COUNTY	ROUTE	FIRST MILE TOTAL PROJECT	SHEET TOTAL SHEETS

REGISTERED CIVIL ENGINEER
 Mark S. ...
 No. CR8390
 Exp. 3-31-27
 STATE OF CALIFORNIA

September 19, 2025
 THE STATE BOARD OF PROFESSIONAL ENGINEERS
 THE OFFICE OF THE REGISTERED PROFESSIONAL ENGINEER
 THE OFFICE OF THE REGISTERED PROFESSIONAL ENGINEER
 THE OFFICE OF THE REGISTERED PROFESSIONAL ENGINEER
 THE OFFICE OF THE REGISTERED PROFESSIONAL ENGINEER

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 24" x 24"
- C 36" x 18"

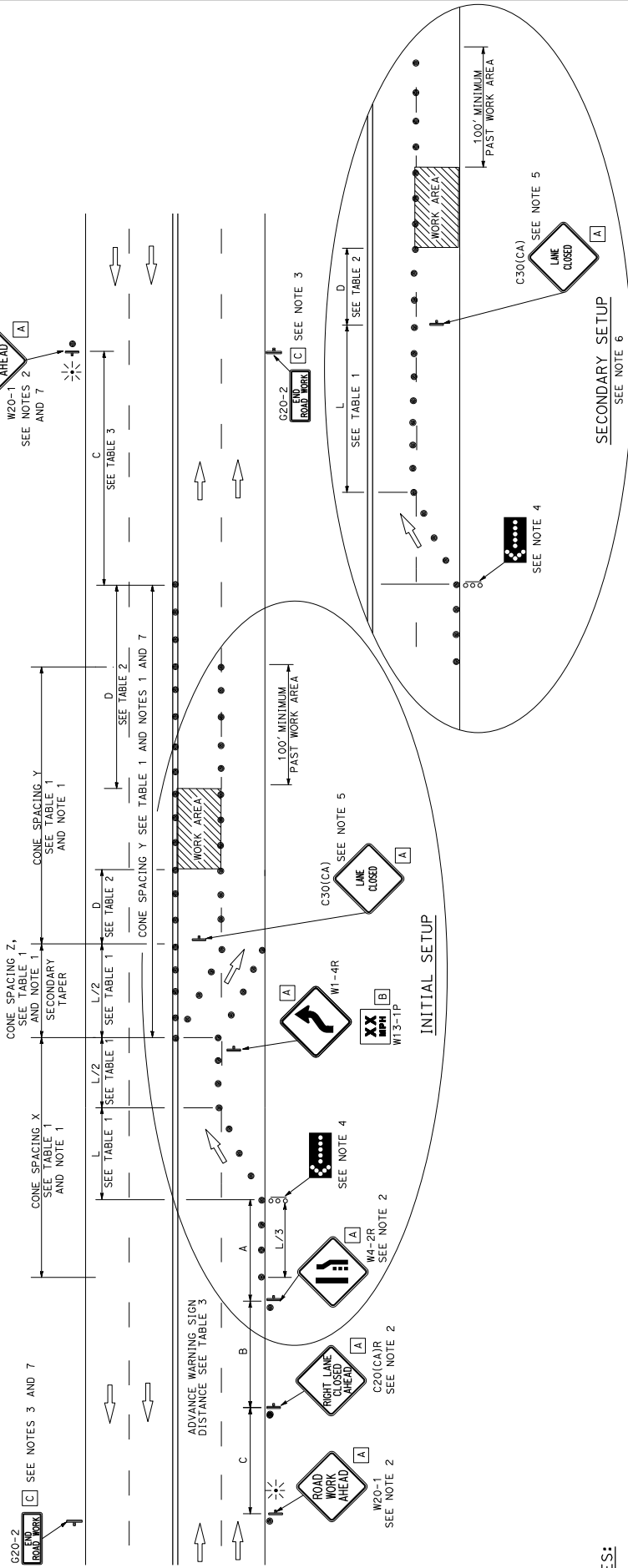
LEGEND

- TRAFFIC CONE
- † TEMPORARY TRAFFIC CONTROL SIGN
- ⬢ FLASHING ARROW SIGN (FAS)
- ⬢ FAS SUPPORT OR TRAILER
- ⦿ PORTABLE FLASHING BEACON

NOTES:

See Standard Plan T9 for tables.
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
 Provide at least one person to continuously maintain traffic control devices for lane closures.

TYPICAL CHANGEABLE LANE CLOSURE



NOTES:

- Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
- Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacon shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign shall be placed at the end of the lane closure unless the end of work area is obvious or ends within the larger project's limits.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work area.
- Relocate secondary taper to tangent location and relocate C30(CA) sign.
- Remove W1-4R/W13-1P sign packages.
- Sign installations and cones are not required when a median barrier is in place.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR CHANGEABLE LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS AND EXPRESSWAYS

NO SCALE

T11A

DIST	COUNTY	ROUTE	FIRST MILE TOTAL PROJECT	SHEET TOTAL SHEETS

REGISTERED CIVIL ENGINEER
 Mark Shepard
 No. C83390
 Exp. 3-31-27
 STATE OF CALIFORNIA

September 19, 2025
 DATE OF ORIGINAL DATE
 THE STATE OF CALIFORNIA
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR
 THE ACCURACY OR COMPLETENESS OF ANY
 COPIES OF THIS PLAN SHEET.

NOTES:

See Standard Plan T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

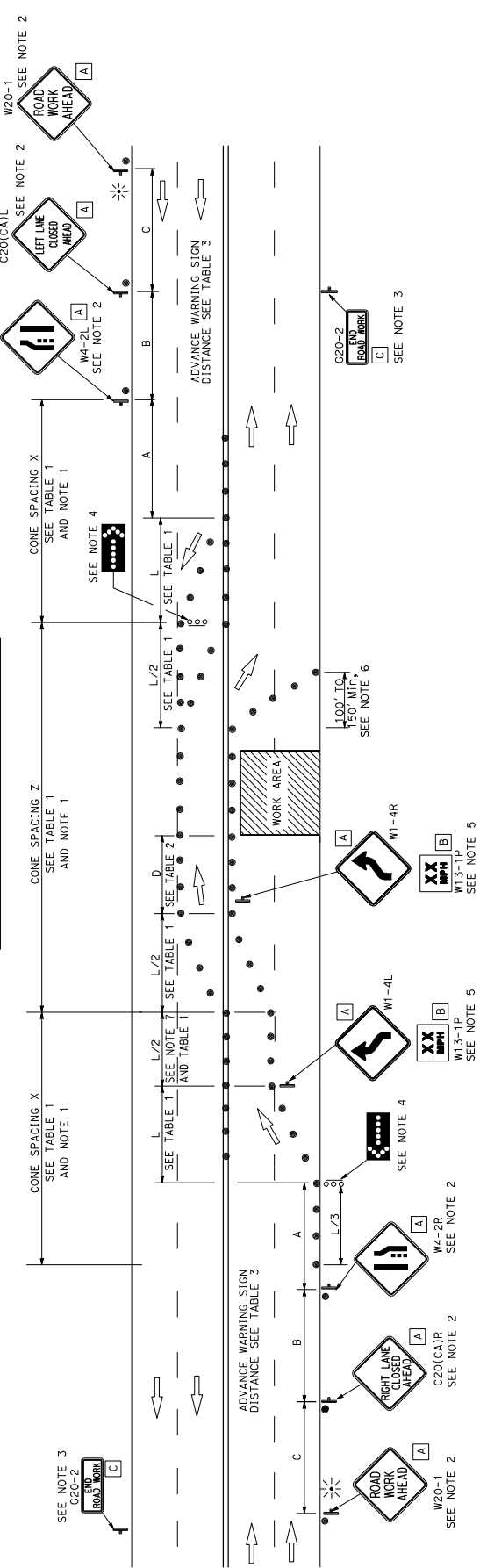
Provide at least one person to continuously maintain traffic control devices for lane closures.

SIGN PANEL SIZE (Min)

A	48" x 48"
B	24" x 24"
C	36" x 18"

- LEGEND**
- TRAFFIC CONE
 - † TEMPORARY TRAFFIC CONTROL SIGN
 - ⬢ FLASHING ARROW SIGN (FAS)
 - ⊞ FAS SUPPORT OR TRAILER
 - ⊞ PORTABLE FLASHING BEACON

TYPICAL HALF ROAD CLOSURE



- NOTES:**
- Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
 - Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
 - A G20-2 "END ROAD WORK" sign, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within the larger project's limits.
 - A minimum 1500' sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
 - Advisory speed will be determined by the Engineer. The W13-1P Plaque will be provided when advisory speed is more than the posted or maximum speed limit.
 - Length may be reduced by the Engineer to address site conditions.
 - The tangent (L/2) shall be used.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR HALF ROAD CLOSURE
 ON MULTILANE CONVENTIONAL
 HIGHWAYS AND EXPRESSWAYS**
 NO SCALE

T12

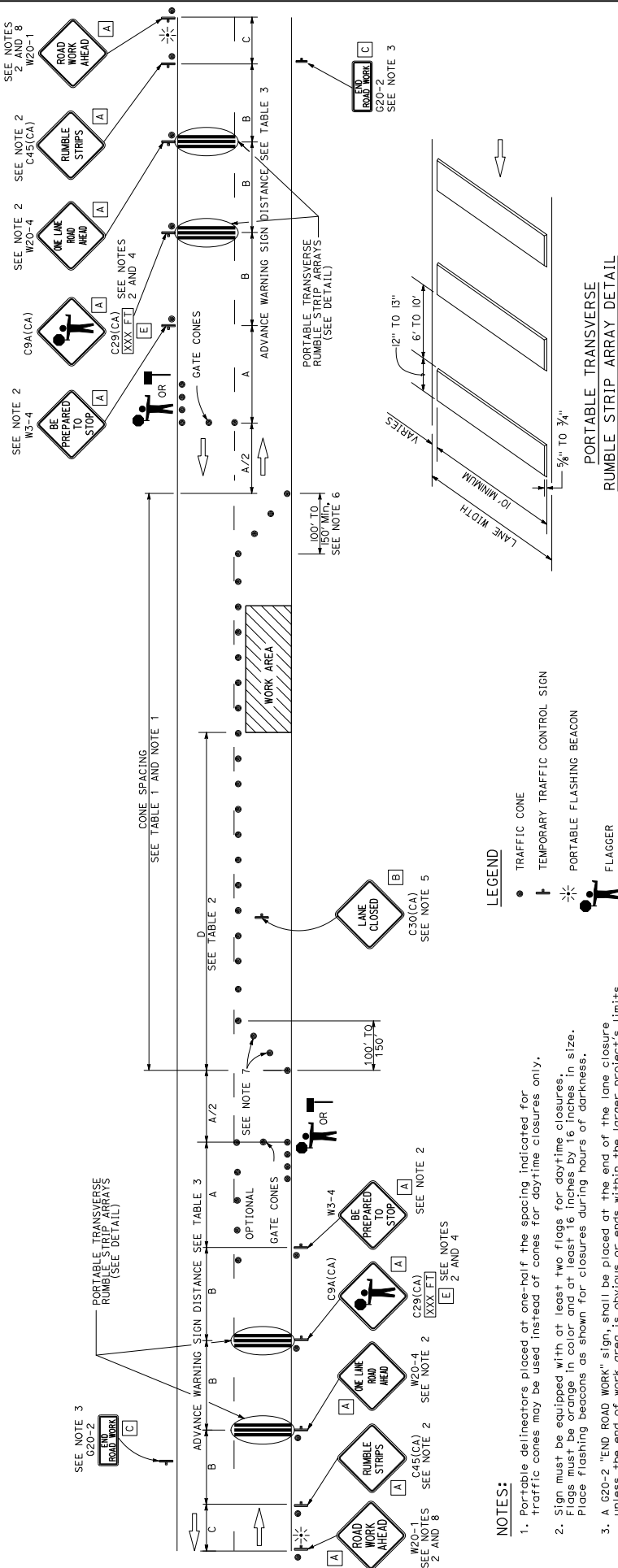
DIST	COUNTY	ROUTE	FIRST MILE TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER
Mark Shepard
 No. C83390
 September 19, 2025
 THE STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 THIS STATE OF CALIFORNIA DATE 12/27/2025
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR
 THE ACCURACY OF THIS PLAN SHEET.
 DIVISION OF CALIFORNIA HIGHWAYS

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 30" x 30"
- C 36" x 18"
- D 36" x 42"
- E 20" x 7"

NOTES:
 See Standard Plan T9 for tables.
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
 Provide at least one person to continuously maintain traffic control devices for lane closures.



- LEGEND**
- TRAFFIC CONE
 - ⌄ TEMPORARY TRAFFIC CONTROL SIGN
 - ⚡ PORTABLE FLASHING BEACON
 - 🚧 FLAGGER
 - 🚧 AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)

- NOTES:**
- Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
 - Sign must be equipped with at least two flags for daytime closures. Flags must be orange in color and at least 16 inches in size. Place flashing beacons as shown for closures during hours of darkness.
 - A G20-2 "END ROAD WORK" sign, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within the larger project's limits.
 - An optional C29(CA) sign may be placed below the C9A(CA) sign.
 - Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work area. They are optional if the work area is visible from the flagger station.
 - Length may be reduced by the Engineer to address site conditions.
 - Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.
 - If C45(CA) is not used, measure distance C from W20-4.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 WITH REVERSIBLE CONTROL ON
 TWO LANE CONVENTIONAL HIGHWAYS**
 NO SCALE

T13

DI&T COUNTY ROUTE FIRST MILES TOTAL PROJECT SHEET TOTAL SHEETS

REGISTERED CIVIL ENGINEER
Mark Shapiro
No. CR8390
Exp. 3-31-27
STATE OF CALIFORNIA PROFESSIONAL ENGINEER

September 19, 2025
DATE OF THIS DRAWING
THE STATE OF CALIFORNIA
OR AGENTS SHALL NOT BE RESPONSIBLE FOR
COPIES OF THIS PLAN SHEET.

SIGN PANEL SIZE (Min.):

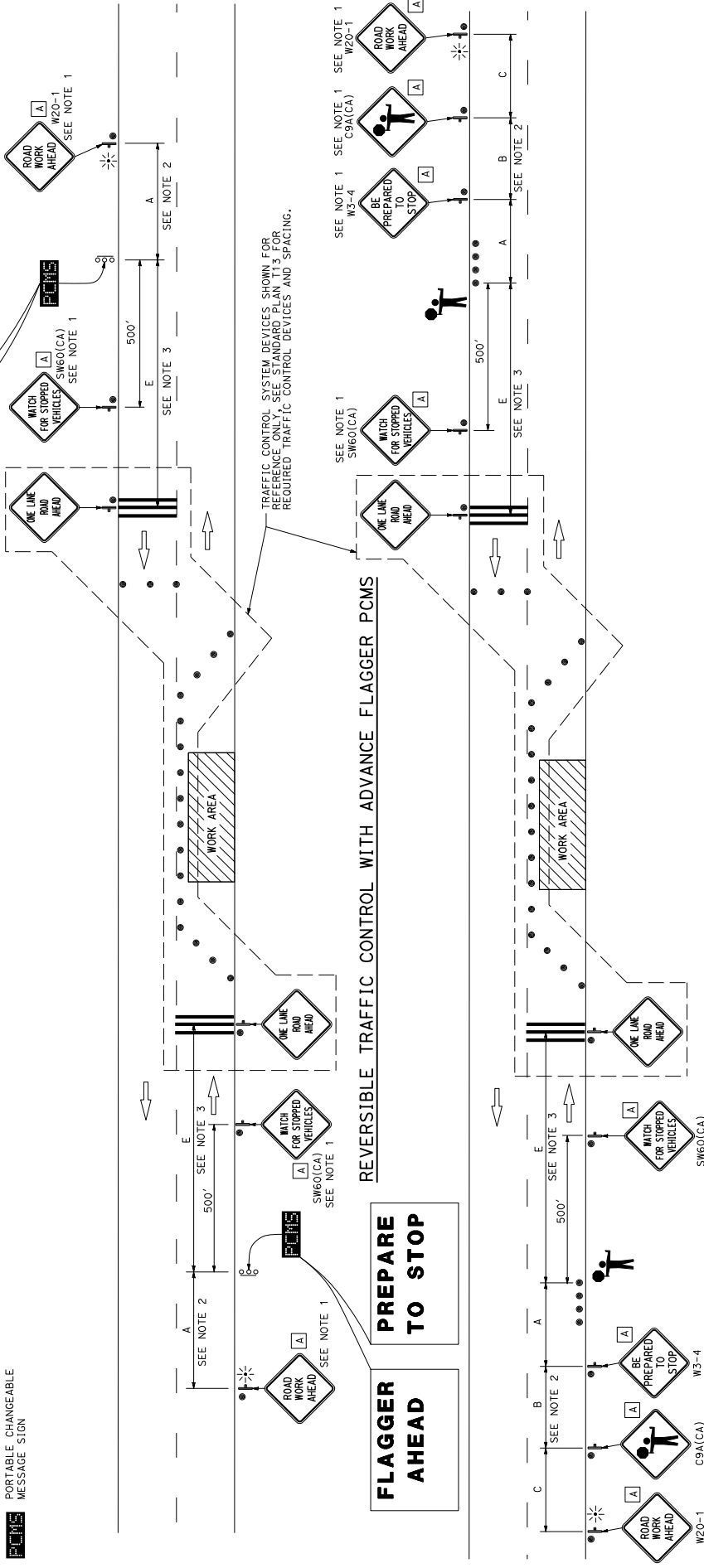
A 48" x 48"

LEGEND:

- TRAFFIC CONE
- † TEMPORARY TRAFFIC CONTROL SIGN
- ✱ PORTABLE FLASHING BEACON
- TRAILER
- FLAGGER
- PORTABLE CHANGEABLE MESSAGE SIGN

FLAGGER AHEAD

PREPARE TO STOP



TRAFFIC CONTROL SYSTEM SHOWN FOR REFERENCE ONLY. SEE STANDARD PLAN T13 FOR REQUIRED TRAFFIC CONTROL DEVICES AND SPACING.

REVERSIBLE TRAFFIC CONTROL WITH ADVANCE FLAGGER PCMS

REVERSIBLE TRAFFIC CONTROL WITH ADVANCE FLAGGERS

W20-1 SEE NOTE 1 SEE NOTE 1
C94(CA) W2-4
SW60(CA) SEE NOTE 1

NOTES:

1. Sign must be equipped with at least two flags for daytime closures. Flags must be orange in color and at least 16 inches by 16 inches in size. Place flashing beacons as shown for closures during hours of darkness.
2. See Standard Plan T9, Table 3 for advanced warning sign spacing.
3. See Standard Specification 12-4.02C.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM
TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

T13A

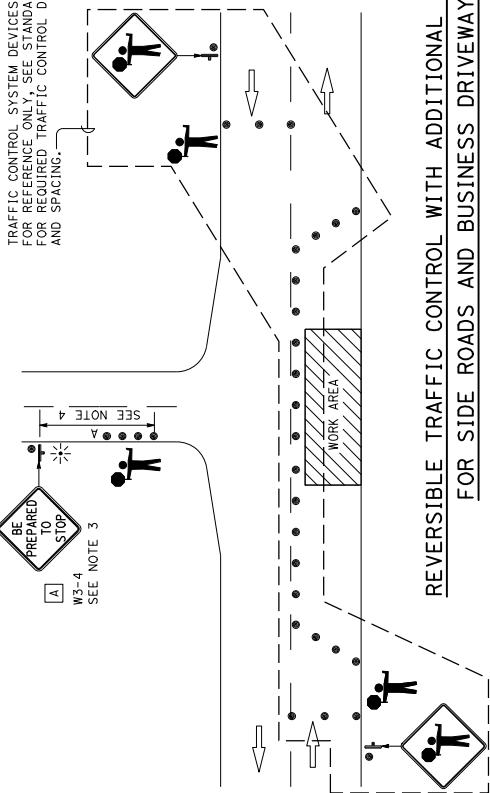
DIST	COUNTY	ROUTE	FIRST MILE TOTAL PROJECT	SHEET TOTAL SHEETS

REGISTERED CIVIL ENGINEER
Mark Rehman
 No. C83390
 Exp. 3-31-27
 STATE OF CALIFORNIA

September 19, 2025
 DATE OF CONTRACT
 THE STATE OF CALIFORNIA
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR
 THE ACCURACY OR COMPLETENESS OF ANY
 COPIES OF THIS PLAN SHEET.

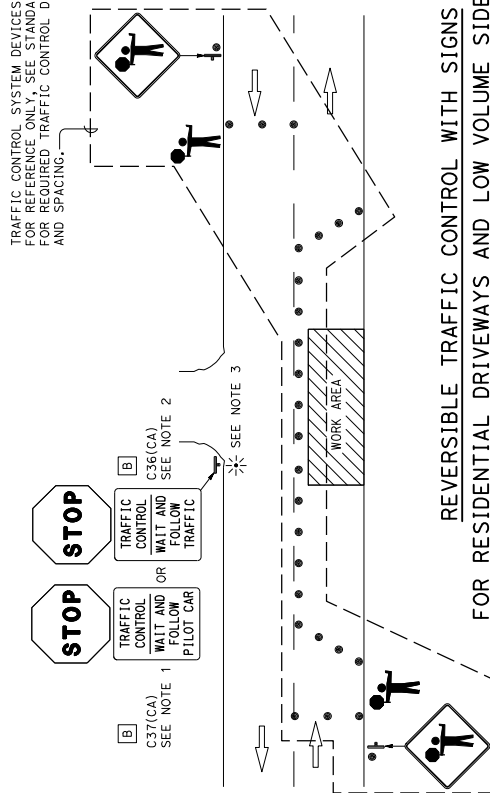
REGISTERED PROFESSIONAL ENGINEER
 No. C83390
 Exp. 3-31-27
 STATE OF CALIFORNIA

TRAFFIC CONTROL SYSTEM DEVICES SHOWN FOR REFERENCE ONLY, SEE STANDARD PLAN T13 FOR REQUIRED TRAFFIC CONTROL DEVICES AND SPACING.



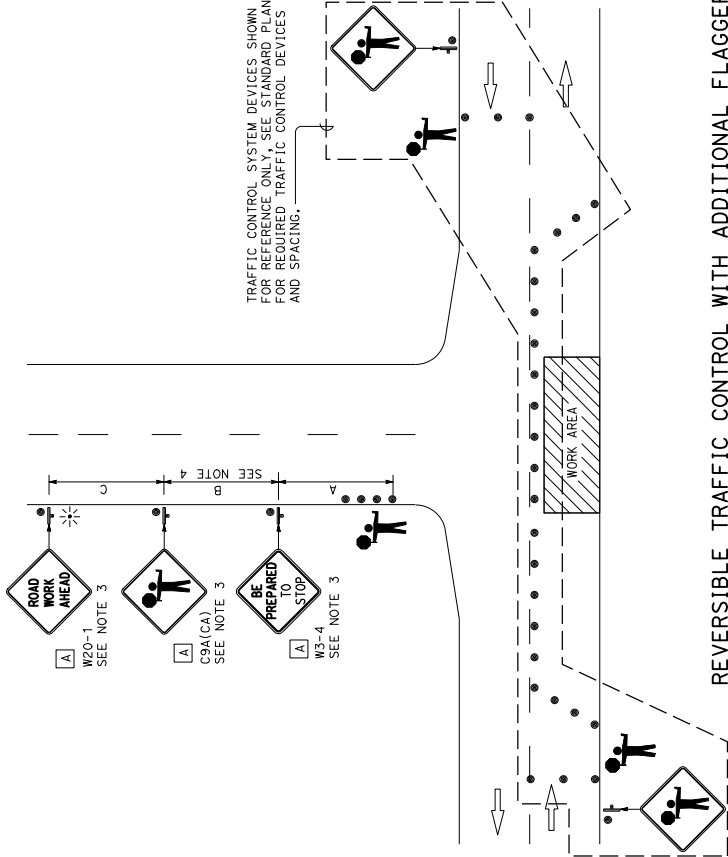
REVERSIBLE TRAFFIC CONTROL WITH ADDITIONAL FLAGGERS FOR SIDE ROADS AND BUSINESS DRIVEWAYS

TRAFFIC CONTROL SYSTEM DEVICES SHOWN FOR REFERENCE ONLY, SEE STANDARD PLAN T13 FOR REQUIRED TRAFFIC CONTROL DEVICES AND SPACING.



REVERSIBLE TRAFFIC CONTROL WITH SIGNS FOR RESIDENTIAL DRIVEWAYS AND LOW VOLUME SIDE ROADS

TRAFFIC CONTROL SYSTEM DEVICES SHOWN FOR REFERENCE ONLY, SEE STANDARD PLAN T13 FOR REQUIRED TRAFFIC CONTROL DEVICES AND SPACING.



REVERSIBLE TRAFFIC CONTROL WITH ADDITIONAL FLAGGERS AT HIGH VOLUME INTERSECTIONS

SIGN PANEL SIZE (Min)
 A 48" x 48"
 B 36" x 42"

- LEGEND:
- TRAFFIC CONE
 - † TEMPORARY TRAFFIC CONTROL SIGN
 - ⚡ PORTABLE FLASHING BEACON
 - ♣ FLAGGER

- NOTES:
- Place C37(CA) sign when pilot car is used.
 - Place C36(CA) sign when pilot car is not used.
 - Sign must be equipped with at least two flags for daytime closures. Flags must be orange in color and at least 16 inches by 16 inches in size. Place flashing beacons as shown for closures during hours of darkness.
 - See Standard Plan T9, Table 3 for advance warning sign spacing.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL SYSTEM
TWO LANE CONVENTIONAL HIGHWAYS
 NO SCALE

T13B

Contract

This public works contract ("Contract") is entered into by and between the Town of Los Gatos ("Town") and _____ ("Contractor"), for work on the _____ ("Project").

The parties agree as follows:

1. **Award of Contract.** In response to the Notice Inviting Bids, Contractor has submitted a Bid Proposal to perform the Work to construct the Project. On _____, 20____, Town authorized award of this Contract to Contractor for the amount set forth in Section 4, below. Town has elected to include the following Project alternate(s) in the Contract:

2. **Contract Documents.** The Contract Documents incorporated into this Contract include and are comprised of all of the documents listed below. The definitions provided in Article 1 of the General Conditions apply to all of the Contract Documents, including this Contract.

- 2.1 Notice Inviting Bids;
- 2.2 Instructions to Bidders;
- 2.3 Addenda, if any;
- 2.4 Bid Proposal and attachments thereto;
- 2.5 Contract;
- 2.6 Payment and Performance Bonds;
- 2.7 General Conditions;
- 2.8 Special Conditions;
- 2.9 Project Plans and Specifications;
- 2.10 Change Orders, if any;
- 2.11 Notice of Potential Award;
- 2.12 Notice to Proceed;
- 2.13 Locations of Work (**Appendix A**); and
- 2.14 Standard Plans (**Appendix B**); and
- 2.15 The 2010 Caltrans Standard Specifications, as revised.

3. **Contractor's Obligations.** Contractor will perform all of the Work required for the Project, as specified in the Contract Documents. Contractor must provide, furnish, and supply all things necessary and incidental for the timely performance and completion of the Work, including all necessary labor, materials, supplies, tools, equipment, transportation, onsite facilities, and utilities, unless otherwise specified in the Contract Documents. Contractor must use its best efforts to diligently prosecute and complete the Work in a professional

and expeditious manner and to meet or exceed the performance standards required by the Contract Documents.

- 4. Payment.** As full and complete compensation for Contractor's timely performance and completion of the Work in strict accordance with the terms and conditions of the Contract Documents, Town will pay Contractor \$_____ ("Contract Price") for all of Contractor's direct and indirect costs to perform the Work, including all labor, materials, supplies, equipment, taxes, insurance, bonds and all overhead costs, in accordance with the payment provisions in the General Conditions.
- 5. Time for Completion.** Contractor will fully complete the Work for the Project, meeting all requirements for Final Completion, within 60 Working Days from the start date set forth in the Notice to Proceed ("Contract Time"). By signing below, Contractor expressly waives any claim for delayed early completion.
- 6. Liquidated Damages.** As further specified in Section 5.4 of the General Conditions, if Contractor fails to complete the Work within the Contract Time, Town will assess liquidated damages in the amount of \$XXXX per day for each day of unexcused delay in achieving Final Completion, and such liquidated damages may be deducted from Town's payments due or to become due to Contractor under this Contract.
- 7. Labor Code Compliance.**

 - 7.1 General.** This Contract is subject to all applicable requirements of Chapter 1 of Part 7 of Division 2 of the Labor Code, including requirements pertaining to wages, working hours and workers' compensation insurance, as further specified in Article 9 of the General Conditions.
 - 7.2 Prevailing Wages.** This Project is subject to the prevailing wage requirements applicable to the locality in which the Work is to be performed for each craft, classification or type of worker needed to perform the Work, including employer payments for health and welfare, pension, vacation, apprenticeship and similar purposes. Copies of these prevailing rates are available online at <http://www.dir.ca.gov/DLSR>.
 - 7.3 DIR Registration.** Town may not enter into the Contract with a bidder without proof that the bidder and its Subcontractors are registered with the California Department of Industrial Relations to perform public work pursuant to Labor Code § 1725.5, subject to limited legal exceptions.
- 8. Workers' Compensation Certification.** Pursuant to Labor Code § 1861, by signing this Contract, Contractor certifies as follows: "I am aware of the provisions of Labor Code § 3700 which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that

code, and I will comply with such provisions before commencing the performance of the Work on this Contract.”

9. **Conflicts of Interest.** Contractor, its employees, Subcontractors, and agents may not have, maintain, or acquire a conflict of interest in relation to this Contract in violation of any Town ordinance or requirement, or in violation of any California law, including Government Code § 1090 et seq., or the Political Reform Act, as set forth in Government Code § 81000 et seq. and its accompanying regulations. Any violation of this Section constitutes a material breach of the Contract.

10. **Independent Contractor.** Contractor is an independent contractor under this Contract and will have control of the Work and the means and methods by which it is performed. Contractor and its Subcontractors are not employees of Town and are not entitled to participate in any health, retirement, or any other employee benefits from Town.

11. **Notice.** Any notice, billing, or payment required by or pursuant to the Contract Documents must be made in writing, signed, dated, and sent to the other party by personal delivery, U.S. Mail, a reliable overnight delivery service, or by email as a PDF file. Notice is deemed effective upon delivery, except that service by U.S. Mail is deemed effective on the second working day after deposit for delivery. Notice for each party must be given as follows:

Town:

Finance Department
Town of Los Gatos
110 E. Main St.
Los Gatos, CA 95030
AP@losgatosca.gov

Copy to: Janice Chin, Assistant Engineer
jchin@losgatosca.gov

Contractor:

Name: _____
Address: _____
Town/State/Zip: _____
Phone: _____
Attn: _____
Email: _____
Copy to: _____

12. **General Provisions.**

- 12.1 Assignment and Successors.** Contractor may not assign its rights or obligations under this Contract, in part or in whole, without Town's written consent. This Contract is binding on Contractor's and Town's lawful heirs, successors and permitted assigns.
- 12.2 Third Party Beneficiaries.** There are no intended third party beneficiaries to this Contract.
- 12.3 Governing Law and Venue.** This Contract will be governed by California law and venue will be in the Santa Clara County Superior Court, and no other place. Contractor waives any right it may have pursuant to Code of Civil Procedure § 394, to file a motion to transfer any action arising from or relating to this Contract to a venue outside of Santa Clara County, California.
- 12.4 Amendment.** No amendment or modification of this Contract will be binding unless it is in a writing duly authorized and signed by the parties to this Contract.
- 12.5 Integration.** This Contract and the Contract Documents incorporated herein, including authorized amendments or Change Orders thereto, constitute the final, complete, and exclusive terms of the agreement between Town and Contractor.
- 12.6 Severability.** If any provision of the Contract Documents is determined to be illegal, invalid, or unenforceable, in whole or in part, the remaining provisions of the Contract Documents will remain in full force and effect.
- 12.7 Iran Contracting Act.** If the Contract Price exceeds \$1,000,000, Contractor certifies, by signing below, that it is not identified on a list created under the Iran Contracting Act, Public Contract Code § 2200 et seq. (the "Act"), as a person engaging in investment activities in Iran, as defined in the Act, or is otherwise expressly exempt under the Act.
- 12.8 Authorization.** Each individual signing below warrants that he or she is authorized to do so by the party that he or she represents, and that this Contract is legally binding on that party. If Contractor is a corporation, signatures from two officers of the corporation are required pursuant to California Corporations Code § 313.

[Signatures are on the following page.]

The parties agree to this Contract as witnessed by the signatures below:

TOWN:

Approved as to form:

s/ _____

s/ _____

Name, Title

Name, Title

Date: _____

Date: _____

Attest:

s/ _____

Name, Title

Date: _____

CONTRACTOR: _____
Business Name

s/ _____

Seal:

Name, Title

Date: _____

Second Signature (See Section 12.8):

s/ _____

Name, Title

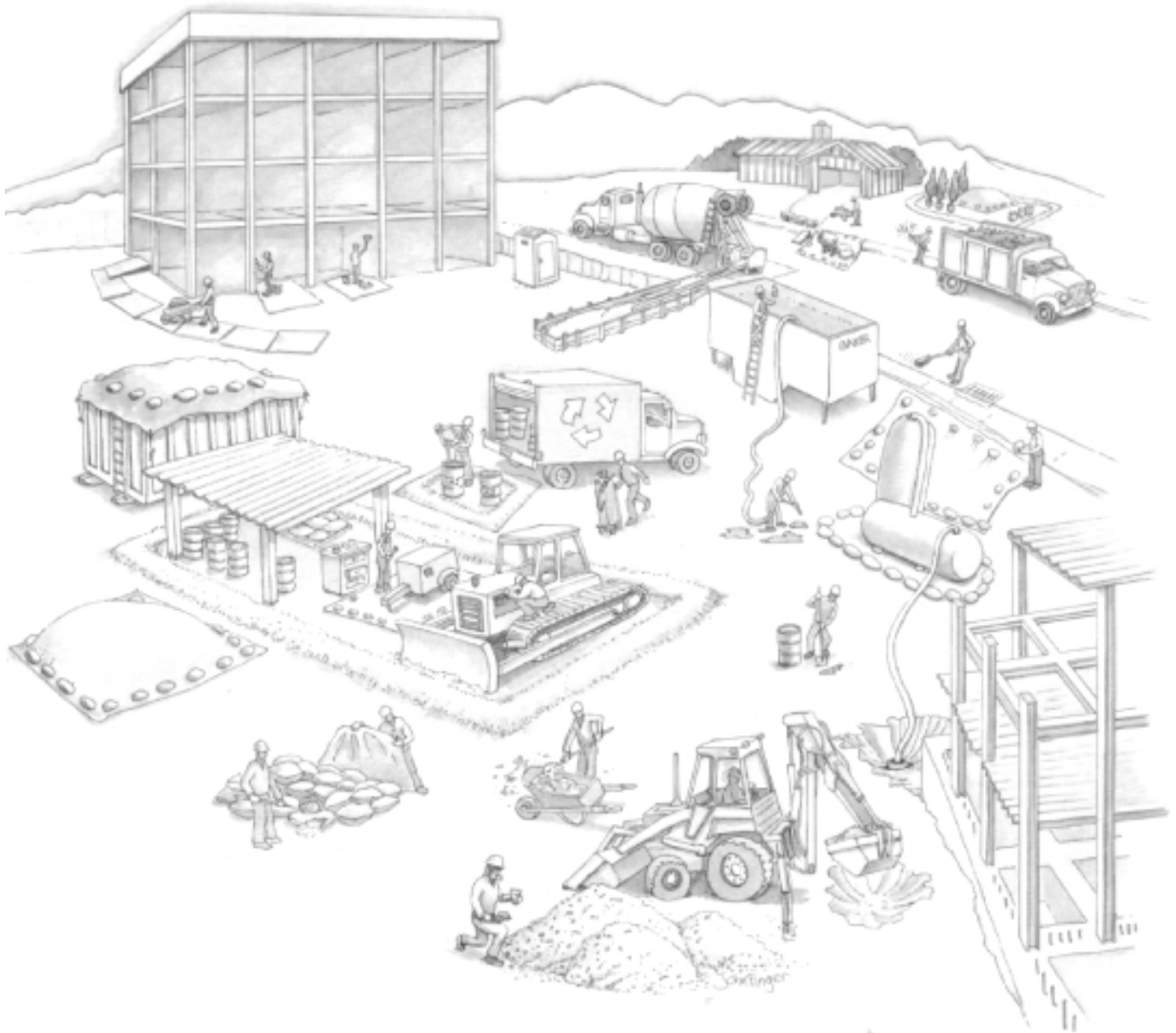
Date: _____

Contractor's California License Number(s) and Expiration Date(s)

END OF CONTRACT

Blueprint for a Clean Bay

Best Management Practices to Prevent Stormwater Pollution from Construction-Related Activities



The Bay Area Stormwater Management Agencies Association (BASMAA), a consortium of Bay Area municipalities from Alameda, Contra Costa, Marin, San Mateo, Santa Clara, Solano, and Sonoma Counties, developed this booklet as a resource for all general contractors, home builders, and subcontractors working on construction sites.

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Introduction

Stormwater pollution is a national environmental problem. In California, stormwater runoff is a major source of water pollution. To help combat the problems of stormwater pollution, federal and state governments have developed a program for monitoring and permitting discharges to municipal storm drain systems, creeks, and water bodies such as San Francisco Bay.

Municipalities in the Bay Area are required by the Clean Water Act to develop stormwater management programs that include requirements for construction activities. Your construction project will need to comply with local municipal requirements. If your construction activity will disturb one acre or more, you must also obtain coverage under the General Construction Activity Permit (see Requirements for Dischargers).

Blueprint for a Clean Bay is an introductory guide to stormwater quality control on construction sites. It contains several principles and techniques that you can use to help prevent stormwater pollution. BASMAA has developed this booklet as a resource for all general contractors, home builders, and subcontractors working on construction sites.

Blueprint for a Clean Bay is not a design manual or a Stormwater Pollution Prevention Plan (SWPPP) (see Requirements for Dischargers). For more information on the General Permit, designing stormwater quality controls, or producing a Stormwater Pollution Prevention Plan, please refer to:

- the California Stormwater Quality Association (CASQA) Stormwater Best Management Practice Handbook for Construction,
- the Regional Water Quality Control Board's (RWQCB) Guidelines for Construction Projects, or
- consult your local program or the State Water Resources Control Board (SWRCB) (see below).

Please note that this booklet is concerned only with the management of construction sites and activities during construction.

Stormwater Pollution

Storm Drain System

Stormwater or runoff from sources like sprinklers and hoses flows over the ground into the storm drain system. In the San Francisco Bay Area, storm drain systems consist of gutters, storm drains, underground pipes, open channels, culverts, and creeks. Storm drain systems are designed to drain directly to the Bay, Delta, or Pacific Ocean with no treatment.

Pollution From Construction Sites

Stormwater runoff is part of a natural hydrologic process. However, land development and construction activities can significantly alter natural drainage patterns and pollute stormwater runoff. Runoff picks up pollutants as it flows over the ground or paved areas and carries these pollutants into the storm drain system. Common sources of pollutants from construction sites include: sediments from soil erosion; construction materials and waste (e.g., paint, solvents, concrete, drywall); landscaping runoff containing fertilizers and pesticides; and spilled oil, fuel, and other fluids from construction vehicles and heavy equipment.

Adverse Effects from Stormwater Pollution

Stormwater pollution is a major source of water pollution in California. It can cause declines in fisheries, damage habitats, and limit water recreation activities. Stormwater pollution poses a serious threat to the overall health of the ecosystem.

For more information on stormwater requirements, call the State Water Resources Control Board's Stormwater Information Line at (916) 341-5537 or your local program.

Requirements for Dischargers

Municipal Stormwater Program

Municipalities in the Bay Area are required by federal regulations to develop programs to control the discharge of pollutants to the storm drain system, including the discharge of pollutants from construction sites and areas of new development or significant redevelopment. As a result, your development and construction projects are subject to new requirements designed to improve stormwater quality such as, expanded plan check and review, contract specifications, stormwater treatment measures, runoff monitoring, and increased site inspection. For more information on municipal requirements, please contact the municipal representative listed on the back cover of this booklet.

Projects Equal To Or Greater Than 1 Acre

If your construction activity will disturb one acre or more, you must obtain coverage under the General Construction Activity Storm Water Permit (General Construction Permit) issued by the SWRCB for stormwater discharges associated with construction activity. To obtain coverage under the General Permit, a Notice of Intent (NOI) must be filed with the SWRCB. The General Construction Permit requires you to prepare and carry out a “Stormwater Pollution Prevention Plan” or SWPPP. Your SWPPP must identify appropriate stormwater pollution prevention measures or best management practices (BMPs), like the ones described in this booklet, to reduce pollutants in stormwater discharges from the construction site both during and after construction is complete. A best management practice or BMP is defined as any program, technology, process, practice, operating method, measure, or device that controls, prevents, removes, or reduces pollution. The General Permit also requires permanent stormwater quality controls (see BASMAA’s Start at the Source manual and CASQA’s BMP Handbooks New Development and Redevelopment for examples). You should keep a copy of your SWPPP readily available onsite throughout construction.

Projects Less Than 1 Acre

If your project is less than one acre, you may still need to use BMPs to comply with local municipal requirements. Check with the local stormwater program (listed on back

Best Management Practices

cover), or planning or engineering department for details.

General Practices

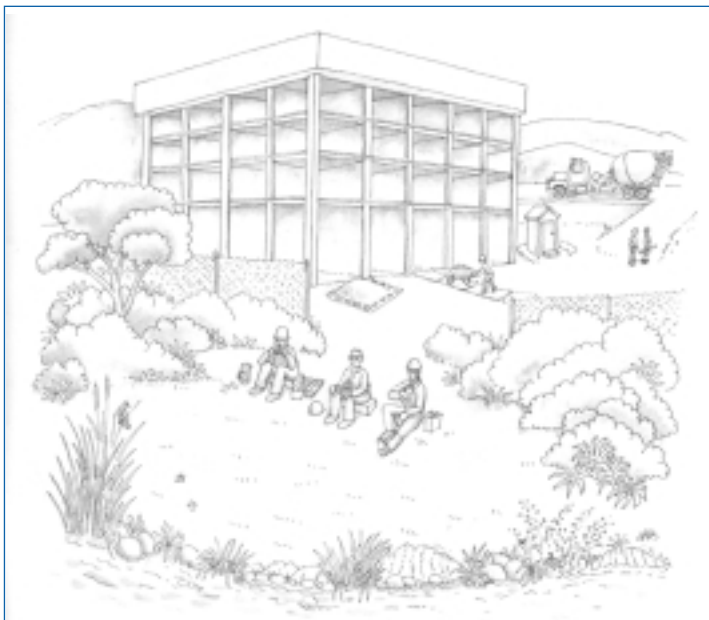
The following are some general principles that can significantly reduce pollution from construction activity and help make compliance with stormwater regulations easy:

- ❑ Identify all storm drains, drainage swales and creeks located near the construction site and make sure all subcontractors are aware of their locations to prevent pollutants from entering them.
- ❑ Clean up leaks, drips, and other spills immediately so they do not contact stormwater.
- ❑ Refuel vehicles and heavy equipment in one designated location on the site and take care to clean up spills immediately.
- ❑ Wash vehicles at an appropriate off-site facility. If equipment must be washed on-site, do not use soaps, solvents, degreasers, or steam cleaning equipment, and prevent wash water from entering the storm drain. If possible, direct wash water to a low point where it can evaporate and/or infiltrate.
- ❑ Never wash down pavement or surfaces where materials have spilled. Use dry cleanup methods whenever possible.
- ❑ Avoid contaminating clean runoff from areas adjacent to your site by using berms and/or temporary or permanent drainage ditches to divert water flow around the site. Reduce stormwater runoff velocities by constructing temporary check dams and/or berms where appropriate.
- ❑ Protect all storm drain inlets using filter fabric cloth or other best management practices to prevent sediments from entering the storm drainage system during construction activities.
- ❑ Keep materials out of the rain — prevent runoff pollution at the source. Schedule clearing or heavy earth moving activities for periods of dry weather. Cover exposed piles of soil, construction materials and wastes with plastic sheeting or temporary roofs. Before it rains, sweep and remove materials from surfaces that drain to storm drains, creeks, or channels.

For more information on the General Permits, call the State Water Resources Control Board’s Stormwater Information Line at (916) 341-5537 or your local program.

Best Management Practices

- ❑ Keep pollutants off exposed surfaces. Place trash cans around the site to reduce litter. Dispose of non-hazardous construction wastes in covered dumpsters or recycling receptacles.
- ❑ Practice source reduction — reduce waste by ordering only the amount you need to finish the job.
- ❑ Do not over-apply pesticides or fertilizers and follow manufacturers instructions for mixing and applying materials.
- ❑ Recycle leftover materials whenever possible. Materials such as concrete, asphalt, scrap metal, solvents, degreasers, cleared vegetation, paper, rock, and vehicle maintenance materials such as used oil, antifreeze, batteries, and tires are recyclable (check with the local planning or building department for more information).
- ❑ Dispose of all wastes properly. Materials that cannot be reused or recycled must be taken to an appropriate landfill or may require disposal as hazardous waste. Never throw debris into channels, creeks or into wetland areas. Never store or leave debris in the street or near a creek where it may contact runoff.
- ❑ Illegal dumping is a violation subject to a fine and/or time in jail. Be sure that trailers carrying your materials are covered during transit. If not, the hauler may be cited and fined.
- ❑ Train your employees and inform subcontractors about the stormwater requirements and their own responsibilities.



Specific Practices

Following is a summary of specific best management practices for erosion and sediment control and contractor activities. For more information on erosion and sediment control BMPs and their design, please refer to the RWQCB Erosion and Sediment Control Field Manual (August 2002), the CASQA Stormwater Best Management Practice Handbook for Construction (January 2003), and the Association of Bay Area Governments (ABAG) Manual of Standards for Erosion & Sediment Control Measures (May 1995).

Erosion Prevention and Sediment Control

Prevent erosion

Soil erosion is the process by which soil particles are removed from the land surface, by wind, water and/or gravity. Soil particles removed by stormwater runoff are pollutants that when deposited in local creeks, lakes, Bay or Delta, can have negative impacts on aquatic habitat. Exposed soil after clearing, grading, or excavation is easily eroded by wind or water. The following practices will help prevent erosion from occurring on the construction site:

- ❑ Plan the development to fit the topography, soils, drainage pattern and natural vegetation of the site.
- ❑ Delineate clearing limits, easements, setbacks, sensitive or critical areas, trees, drainage courses, and buffer zones to prevent excessive or unnecessary disturbances and exposure.
- ❑ Phase grading operations to reduce disturbed areas and time of exposure.
- ❑ Avoid excavation and grading during wet weather.
- ❑ Limit on-site construction routes and stabilize construction entrance(s) and exit(s).
- ❑ Remove existing vegetation only when absolutely necessary.
- ❑ Construct diversion dikes and drainage swales to channel runoff around the site.
- ❑ Use berms and drainage ditches to divert runoff around exposed areas. Place diversion ditches across the top of cut slopes.

Best Management Practices

- ❑ Plant vegetation on exposed slopes. Where replanting is not feasible, use erosion control blankets (e.g., jute or straw matting, glass fiber or excelsior matting, mulch netting).
- ❑ Consider slope terracing with cross drains to increase soil stability.
- ❑ Cover stockpiled soil and landscaping materials with secured plastic sheeting and divert runoff around them.
- ❑ As a back-up measure, protect drainage courses, creeks, or catch basins with fiber rolls, silt fences, sand/gravel bags and/or temporary drainage swales.
- ❑ Once grading is completed, stabilize the disturbed areas using permanent vegetation as soon as possible. Use temporary erosion controls until vegetation is established.
- ❑ Conduct routine inspections of erosion control measures especially before and immediately after rainstorms, and repair if necessary.
- ❑ fabric fences, block and gravel filters, catch basin filter inserts, excavated drop inlet sediment traps, or a combination of these.
- ❑ Collect and detain sediment-laden runoff in sediment traps (an excavated or bermed area or constructed device) to allow sediments to settle out prior to discharge.
- ❑ Use sediment controls and filtration to remove sediments from dewatering discharges.
- ❑ Prevent construction vehicle tires from tracking soil onto adjacent streets by constructing a temporary stone pad with a filter fabric underliner near the site exit where dirt and mud can be removed.
- ❑ When cleaning sediments from streets, driveways and paved areas on construction sites, use dry sweeping methods where possible. If water must be used to flush pavement, collect runoff to settle out sediments and protect storm drain inlets.

Control sediment

Sedimentation is defined as the process of depositing sediments carried away by runoff. Sediments consist of soil particles, clays, sands, and other minerals. The purpose of sediment control practices is to remove sediments from stormwater before they are transported off-site or reach a storm drain inlet or nearby creek. The most effective sediment control practices reduce runoff velocity and trap or detain runoff allowing sediments to settle out.

- ❑ Use terracing, rip rap, sand/gravel bags, rocks, fiber rolls, and/or temporary vegetation on slopes to reduce runoff velocity and trap sediments. Do not use asphalt rubble or other demolition debris for this purpose.
- ❑ Use check dams in temporary drains and swales to reduce runoff velocity and promote sedimentation.
- ❑ Protect storm drain inlets from sediment-laden runoff. Storm drain inlet protection devices include sand/gravel bag barriers, filter

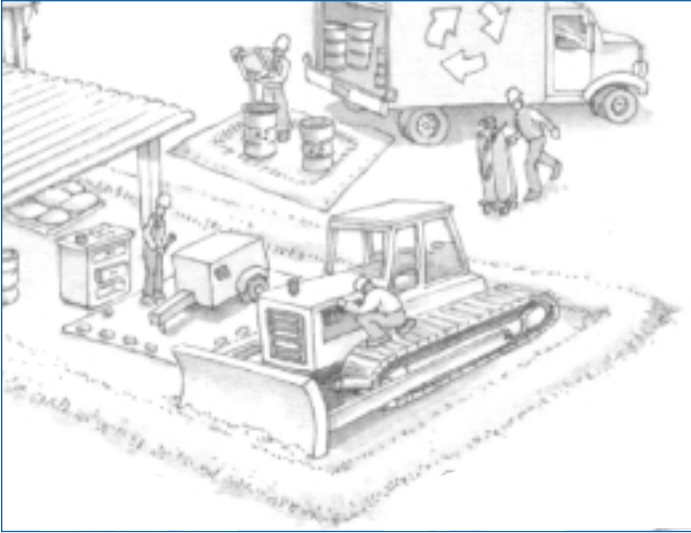
Note: Performance of erosion and sediment controls is dependent on proper installation, routine inspections and maintenance of the controls. Straw bale barriers are an example of a BMP that has not been as effective as expected due to improper use. Most of the BMPs described above are temporary and if left alone can quickly fall into disrepair and/or become ineffective. Routine inspections and maintenance, particularly before and after a storm event, must be part of any erosion and sediment control plan.

The RWQCB's Field Manual, the CASQA Stormwater Best Management Practice Handbook for Construction, and the ABAG Manual of Standards for Erosion and Sediment Control provide specific details and design criteria for erosion and sediment control plans.



Drainage swales channel runoff around a construction site. Planting temporary vegetation on freshly graded areas, and trenching and staking fiber rolls and/or silt fences downslope are common techniques for preventing erosion and controlling sediment.

Best Management Practices



Make sure equipment repair area is bermed or well away from creeks and storm drains.

General Site Maintenance

Prevent spills and leaks

Poorly maintained vehicles and heavy equipment leaking fuel, oil, antifreeze, or other fluids on the construction site are common sources of stormwater pollution and soil contamination. Construction material spills can also cause serious problems. Careful site planning, preventive maintenance, and good materials handling practices can eliminate most spills and leaks.

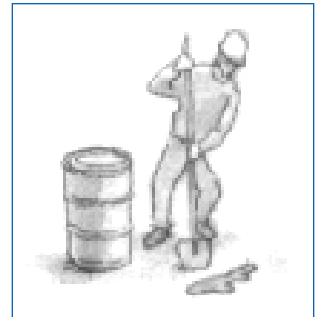
- ❑ Maintain all vehicles and heavy equipment. Inspect frequently for and repair leaks.
- ❑ Designate specific areas of the construction site, well away from creeks or storm drain inlets, for vehicle and equipment parking and routine maintenance.
- ❑ Perform major maintenance, repair jobs and vehicle and equipment washing off-site when feasible, or in designated and controlled areas on-site.

- ❑ If you must drain and replace motor oil, radiator coolant, or other fluids on-site, use drip pans or drop cloths to catch drips and spills. Collect all spent fluids, store in labeled separate containers, and recycle whenever possible. Note that in order to be recyclable, such liquids must not be mixed with other fluids. Non-recycled fluids generally must be disposed of as hazardous wastes.

Clean up spills immediately after they happen

When vehicle fluids or materials such as paints or solvents are spilled, cleanup should be immediate, automatic, and routine.

- ❑ Sweep up spilled dry materials (e.g., cement, mortar, or fertilizer) immediately. Never attempt to “wash them away” with water, or bury them. Use only minimal water for dust control.
- ❑ Clean up liquid spills on paved or impermeable surfaces using “dry” cleanup methods (e.g., absorbent materials like cat litter, sand or rags).
- ❑ Clean up spills on dirt areas by digging up and properly disposing of the contaminated soil.
- ❑ Report significant spills to the appropriate spill response agencies immediately (See reference list on the back cover of this booklet for more information).



Clean up spills on dirt areas by removing contaminated soil.

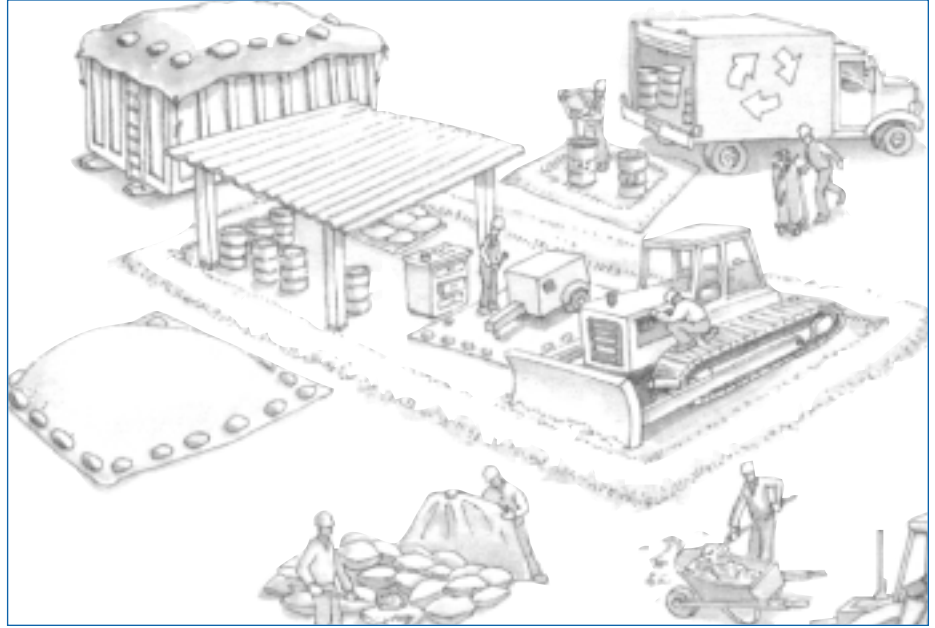
Note: Used cleanup rags that have absorbed hazardous materials must either be sent to a certified industrial laundry or dry cleaner, or disposed of through a licensed hazardous waste disposal company.

Best Management Practices

Store materials under cover

Wet and dry building materials with the potential to pollute runoff should be stored under cover and/or surrounded by berms when rain is forecast or during wet weather.

- ❑ Store stockpiled materials and wastes under a temporary roof or secured plastic sheeting or tarp.
- ❑ Berm around storage areas to prevent contact with runoff.
- ❑ Plaster or other powders can create large quantities of suspended solids in runoff, which may be toxic to aquatic life and cause serious environmental harm even if the materials are inert. Store all such potentially polluting dry materials—especially open bags—under a temporary roof or inside a building, or cover securely with an impermeable tarp. By properly storing dry materials, you may also help protect air quality, as well as water quality.
- ❑ Store containers of paints, chemicals, solvents, and other hazardous materials in accordance with secondary containment regulations and under cover during rainy periods.



Store building materials under cover. Make sure dumpsters are properly covered to keep out rain.

Cover and maintain dumpsters

Open and/or leaking dumpsters can be a source of stormwater pollution.

- ❑ Cover open dumpsters with plastic sheeting or a tarp. Secure the sheeting or tarp around the outside of the dumpster. If your dumpster has a cover, close it.
- ❑ If a dumpster is leaking, contain and collect leaking material. Return the dumpster to the leasing company for repair/exchange.
- ❑ Do not clean dumpsters on-site. Return to leasing company for periodic cleaning, if necessary.

Collect and properly dispose of paint removal wastes

Paint removal wastes include chemical paint stripping

residues, paint chips and dust, sand blasting material and wash water. These wastes contain chemicals that are harmful to the wildlife in our creeks and the water bodies they flow to. Keep all paint wastes away from the gutter, street, and storm drains.

- ❑ Non-hazardous paint chips and dust from dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash. Chemical paint stripping residue and chips and dust from marine paints or paints containing lead or tributyl tin must be disposed of as a hazardous waste.
- ❑ When stripping or cleaning building exteriors with high-pressure water, cover or berm storm drain inlets. If possible (and allowed by your local wastewater treatment plant), collect (mop or vacuum) building cleaning water and discharge to the sanitary sewer. Alternatively, discharge non-contaminated wash water onto a dirt area and spade into the soil. Be sure to shovel or sweep up any debris that remains in the gutter and dispose of as garbage.

Clean up paints, solvents, adhesives, and cleaning solutions properly

Although many paint materials can and should be recycled, liquid residues from paints, thinners, solvents, glues, and cleaning fluids are hazardous wastes. When

Best Management Practices

they are thoroughly dry, empty paint cans, used brushes, rags, absorbent materials, and drop cloths are no longer hazardous and may be disposed of as garbage.

- ❑ Never clean brushes or rinse paint containers into a street, gutter, storm drain, or creek.
- ❑ For water-based paints, paint out brushes to the extent possible and rinse to a drain leading to the sanitary sewer (i.e., indoor plumbing).
- ❑ For oil-based paints, paint out brushes to the extent possible, and filter and reuse thinners and solvents. Dispose of unusable thinners and residue as hazardous waste.
- ❑ Recycle, return to supplier or donate unwanted water-based (latex) paint. You may be able to recycle clean empty dry paint cans as metal (check with the local planning or building department for more information).
- ❑ Dried latex paint may be disposed of in the garbage.
- ❑ Unwanted paint (that is not recycled), thinners, and sludges must be disposed of as hazardous waste.
- ❑ More and more paint companies are recycling excess latex paint (check with the local planning or building department for more information).

Keep fresh concrete and cement mortars out of gutters, storm drains, and creeks

Concrete and cement-related mortars that wash into gutters and storm drains are toxic to fish and the aquatic environment.

- ❑ Locate mortar/stucco mixers inside bermed areas to avoid discharge to street or storm drains.
- ❑ Avoid mixing excess amounts of fresh concrete or cement mortar.
- ❑ Store dry and wet materials under cover, protected from rainfall and runoff.
- ❑ Wash out concrete transit mixers only in designated wash-out areas where the water will flow into settling ponds or onto dirt or stockpiles of aggregate base or sand. Pump water from settling ponds to the sanitary sewer, where allowed. Whenever possible, recycle washout by pumping back into

mixers for reuse. Never dispose of washout into the street, storm drains, drainage ditches, or creeks.

- ❑ Whenever possible, return contents of mixer barrel to the yard for recycling. Dispose of small amounts of excess concrete, grout, and mortar in the trash.

Service and maintain portable toilets

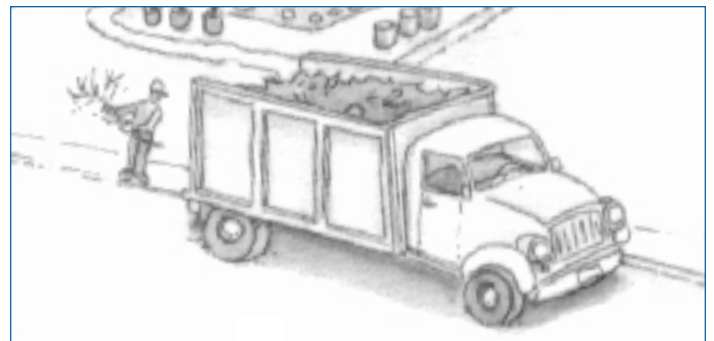
Leaking portable toilets are a potential health and environmental hazard.

- ❑ Inspect portable toilets for leaks.
- ❑ Be sure the leasing company adequately maintains, promptly repairs, and replaces units as needed.
- ❑ The leasing company must have a permit to dispose of waste to the sanitary sewer.
- ❑ Do not place on or near storm drain inlets.

Dispose of cleared vegetation properly

Cleared vegetation, tree trimmings, and other plant material can cause environmental damage if it gets into creeks. Such “organic” material requires large quantities of oxygen to decompose, which reduces the oxygen available for fish and other aquatic life.

- ❑ Do not dispose of plant material in a creek or drainage facility or leave it in a roadway where it can clog storm drain inlets.
- ❑ Avoid disposal of plant material in trash dumpsters or mixing it with other wastes. Compost plant material or take it to a landfill or other facility that composts yard waste (check with the local planning or building department for more information).



Recycle yard waste and tree prunings at a landfill that chips and composts plant material.

Demolition Waste Management

Make sure all demolition waste is properly disposed of

Demolition debris that is left in the street or pushed over a bank into a creek bed or drainage facility causes serious problems for flood control, storm drain maintenance, and the health of our environment. Different types of materials have different disposal requirements or recycling options.

- ❑ Materials that can be recycled from demolition projects include: metal framing, wood, concrete, asphalt, and plate glass.
- ❑ Materials that can be salvaged for reuse from old structures include: doors, banisters, floorboards, windows, 2x4s, and other old, dense lumber.
- ❑ Unusable, unrecycleable debris should be confined to dumpsters, covered at night and during wet weather, and taken to a landfill for disposal.
- ❑ Hazardous debris such as asbestos must be handled in accordance with specific laws and regulations and disposed of as a hazardous waste. For more information of asbestos handling and disposal regulations, contact the Bay Area Air Quality Management District.
- ❑ Arrange for an adequate debris disposal schedule to ensure that dumpsters do not overflow.
- ❑ Most local planning or building departments have lists of recycling and disposal services for construction and demolition debris.

Roadwork and Pavement Construction

Plan roadwork and pavement construction to avoid stormwater pollution

Road paving, surfacing, and asphalt removal happen right in the street, with numerous opportunities for stormwater pollution from the asphalt mix, saw-cut slurry, or excavated material. Properly proportioned asphalt mix and well-compacted pavement avoid a host of water pollution problems.

- ❑ Apply concrete, asphalt, and seal coat during dry weather to prevent contaminants from contacting stormwater runoff.
- ❑ Cover storm drain inlets and manholes when paving or applying seal coat, slurry seal, fog seal, etc.
- ❑ Always park paving machines over drip pans or absorbent materials, since they tend to drip continuously.
- ❑ When making saw-cuts in pavement, use as little water as possible. Cover each catch basin completely with filter fabric during the sawing operation and contain the slurry by placing sand/gravel bags around the catch basin. After the liquid drains or evaporates, shovel or vacuum the slurry residue from the pavement or gutter and remove from site.
- ❑ Wash down exposed aggregate concrete only when the wash water can: (1) flow onto a dirt area; (2) drain onto a bermed surface from which it can be pumped and disposed of properly; or (3) be vacuumed from a catchment created by blocking a storm drain inlet. If necessary, divert runoff with temporary berms. Make sure runoff does not reach gutters or storm drains.
- ❑ Allow aggregate rinse to settle, and pump the water to the sanitary sewer if allowed by your local wastewater authority.
- ❑ Never wash sweepings from exposed aggregate concrete into a street or storm drain. Collect and return to aggregate base stockpile, or dispose with trash.
- ❑ Recycle broken concrete and asphalt (check with the local planning or building department for more information).

Contaminated Pounded Stormwater, Groundwater, and Soil Guidance

Look for ponded stormwater, groundwater, and/or soil contamination

Pounded stormwater, groundwater and soil may become contaminated if exposed to hazardous materials. If any of the following conditions apply, contaminated ponded stormwater, groundwater, and/or soil may be present and pose a potential health and environmental hazard:

- ❑ The project site is in an area of previous commercial/industrial activity;
- ❑ There is a history of illegal dumping on the site or adjacent properties;
- ❑ The construction site is subject to a Superfund, state, or local cleanup order;
- ❑ Ponded stormwater, groundwater and/or water generated by dewatering exhibits an oily-sheen and/or smells of petroleum;
- ❑ Soil appears discolored, smells of petroleum and/or exhibits other unusual properties;

- ❑ Abandoned underground storage tanks, drums, or other buried debris are encountered during construction activities; or
- ❑ Spills have occurred on the site or adjacent properties involving pesticides and herbicides; fertilizers; detergents; plaster and other products; petroleum products such as fuel, oil, and grease; or other hazardous chemicals such as acids, lime, glues, paints, solvents, and curing compounds.

Take appropriate action

Pounded stormwater, groundwater, or water generated by dewatering that is contaminated cannot be discharged to a street, gutter, or storm drain. If contamination is suspected, the water should be contained and held for testing. Call the appropriate local agency and/or the Regional Water Quality Control Board for further guidance (See reference list on the back cover of this booklet for more information).

Remember: The property owner and the contractor share ultimate responsibility for the activities that occur on a construction site. You may be held responsible for any environmental damage caused by your subcontractors or employees.

Pollution Control Agencies and Sources of Information

Storm water quality management programs

Alameda Countywide Clean Water Program
951 Turner Court, Hayward, CA 94545
(510) 670-5543
www.cleanwaterprogram.com

Contra Costa Clean Water Program
255 Glacier Drive, Martinez, CA
94553-4897 (925) 313-2392
(800) NO DUMPING
www.cccleanwater.org

Fairfield-Suisun Urban Runoff Management Program
1010 Chadbourne Road
Fairfield, CA 94534 (707) 429-8930

Marin County Stormwater Pollution Prevention Program
3501 Civic Center Drive, Room 304,
San Rafael, CA 94903 (415) 499-6528
www.mcstoppp.org

San Francisco Stormwater Management Program
3801 3rd Street, Suite 600
San Francisco, CA 94124 (415) 695-7310
http://stormwater.sfwater.org

San Mateo Countywide Stormwater Pollution Prevention Program
555 County Center, Fifth Floor
Redwood City, CA 94063
(650) 363-4305
www.flowstobay.org

Santa Clara Valley Urban Runoff Pollution Prevention Program
699 Town & Country Village
Sunnyvale, CA 94086 (800) 794-2482
www.scvurppp.org

Sonoma County Water Agency
2150 West College Avenue
Santa Rosa, CA 95401
(707) 526-5370
www.scwa.org

Vallejo Sanitation and Flood Control District
450 Ryder Street, Vallejo, CA 94590
(707) 644-8949
www.vsfcd.com

Bay Area Stormwater Management Agencies Association (BASMAA)
1515 Clay Street, Suite 1400,
Oakland, CA 94612 (510) 622-2326
(888) BayWise www.basmaa.org

Agencies to call in the event of a spill

You are required by law to report all significant releases or suspected significant releases of hazardous materials, including oil.

To report a spill, call the following agencies:

1. Dial 911 or your local emergency response number.
2. Call the Governor's Office of Emergency Services Warning Center, (800) 852-7550 (24 hours).

For spills of "Federal Reportable Quantities" of oil, chemicals, or other hazardous materials to land, air, or water, notify the National Response Center (800-424-8802). If you are not sure whether the spill is of a "reportable quantity," call the federal Environmental Protection Agency (800) 424-9340 for clarification.

For further information, see *California Hazardous Material Spill/ Release Notification Guidance* (State Office of Emergency Services, Hazardous Materials Division).

Agencies to call if you find or suspect contaminated soil or groundwater

Regional Water Quality Control Board:

San Francisco Bay Region
(510) 622-2300

Central Valley Region
(916) 255-3000

California Environmental Protection Agency (Cal EPA), Department of Toxic Substances Control (DTSC)
(510) 540-3732

Documents and available resources

From State Water Resources Control Board (SWRCB)
(916) 341-5537
www.swrcb.ca.gov

General Construction Activity Storm Water Permit

From Friends of the San Francisco Estuary
(510) 622-2465
www.abag.ca.gov/bayarea/sfep

Field Manual

Guidelines for Construction Projects

Hold On to Your Dirt – Video

Keep it Clean – Video

From Association of Bay Area Governments (ABAG)
(510) 464-7900
www.abag.ca.gov

Manual of Standards for Erosion and Sediment Control Measures

From Cal EPA, DTSC
(916) 322-3670
www.dtsc.ca.gov

Waste Minimization for the Building Construction Industry - Fact Sheet

From California Stormwater Quality Association (CASQA)
www.cabmphandooks.com

Stormwater Best Management Practice Handbook – Construction

THANKS

BASMAA adapted this booklet from one originally developed and generously shared by the Santa Clara Valley Nonpoint Source Pollution Control Program.

Illustrations by John Finger

ARTICLE III. - STORM WATER POLLUTION CONTROL

Sec. 22.30.010. - Definitions.

The following words and phrases, when used in this article, shall be as defined herein. Words and phrases used in this article and not otherwise defined shall be as defined in the regulations promulgated by the U.S. Environmental Protection Agency to implement the requirements of the federal Clean Water Act, or as defined by the State Water Resources Control Board to implement the California Water Code.

Applicable materials means all materials used in industrial or commercial establishments that are stored outdoors, that may be exposed to storm water, and that have the reasonable potential to degrade the quality of runoff from the site. These include, but are not limited to, all materials containing cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, and zinc, which are pollutants that have specifically been identified as known to contribute to impairment of applicable water quality standards.

Deemed complete means that a project applicant has submitted a development application package for discretionary approval that is determined to be a complete and acceptable application by the development review committee. For public projects (funded and owned by the town), projects are deemed complete if funding has been approved by the town council and construction has been scheduled by October 15, 2003.

Discharge means the discharge, addition, placement, deposit, release or dumping of any pollutant or combination of pollutants to surface waters from any point source. This definition includes, but is not limited to, additions of pollutants into waters from: surface runoff and discharges through pipes, sewers, channels, or other conveyances owned by a state, municipality, or other person which do not lead to a treatment works.

Grease means, and includes, fats, oils, waxes, or other related constituents. Grease may be of mineral origin, including kerosenes, lubricating oil, and road oil. Grease may also be of vegetable or animal origin, including butter, lard, margarine, vegetable fats and oils, fats in meats, cereals, seeds, nuts, and certain fruits. Grease is generally present as, but need not be, a floatable solid, a liquid, a colloid, an emulsion, or in a solution.

Grease generating activity means any commercial or industrial activity that uses or produces grease on an ongoing basis.

Grease removal device means an interceptor or other mechanical device designed, constructed, and intended to remove, hold, or otherwise prevent the passage of grease to the (sanitary sewer or) municipal storm drain system.

Impervious surface means a constructed or modified surface that does not allow rainfall to percolate through to the subsoil and thus creates storm water runoff. Impervious surface includes, but is not limited to, building rooftops, pavement, sidewalks, patios, driveways or other hardscape where such surfaces are not constructed with pervious materials and/or are not designed so as to have zero (0) storm water discharge.

Interceptor means a receptacle or trap designed and constructed to intercept, separate, and prevent the passage of prohibited substances into the (sanitary sewer or) municipal storm drain system.

Major development or redevelopment project means a project that creates, adds, or replaces one (1) acre (forty-three thousand five hundred sixty (43,560) square feet) or more of impervious surface, for those project applications that are deemed complete on or after October 15, 2003. For those project applications that are deemed complete on or after April 15, 2005, a major development or redevelopment project means a project that creates, adds, or replaces ten thousand (10,000) square feet or more of impervious surface.

Municipal storm drain system means and includes, but shall not be limited to, those facilities within the municipality by which storm water may be conveyed to waters of the United States, including any roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels or storm drains, which are not part of a publicly owned treatment works (POTW).

NPDES permit means a valid National Pollutant Discharge Elimination System permit issued by the California Regional Water Quality Control Board, San Francisco Bay Region, in accordance with regulations promulgated by the U.S. Environmental Protection Agency to implement the requirements of the federal Clean Water Act.

Pollutants mean and include all sewage, sewage sludge, garbage, biological materials, radioactive materials, and chemical, industrial, and agricultural waste discharged into water.

Project with significant pollution potential means any project determined by the town to be likely to have sources of pollutants on-site and/or to contribute pollutants to stormwater after project completion, based on a review of the proposed uses of or activities planned for the site.

Storm water means all rainfall runoff, surface runoff, and drainage.

Watercourses mean and include all natural waterways and definite channels and depressions in the earth that carry water, even though such waterways may only carry water during rains and storms and may not carry storm water at and during all times and seasons. Watercourses include facilities owned and operated by the Santa Clara Valley Water District.

(Ord. No. 1940, § I, 5-3-93; Ord. No. 2125, § I, 1-20-04)

Sec. 22.30.015. - Requirements for non-storm water discharges.

(a) *Discharge prohibition.* No person shall discharge or cause to be discharged into the municipal

storm drain system or watercourses any materials other than storm water. In addition, no person shall discharge or cause to be discharged into the municipal storm drain system or watercourses, any pollutants or waters containing any pollutants that cause or threaten to contribute to a violation of applicable water quality standards. It shall also be unlawful to discharge, or cause to be discharged into any storm drain or natural outlet or channel, any sewage, industrial waste or other polluted waters or materials without a valid NPDES permit or written authority from the U.S. Environmental Protection Agency or its designated enforcement agent.

- (b) *Exceptions to discharge prohibition.* The preceding discharge prohibition shall not apply to any discharge that is specifically authorized by an NPDES permit to flow to a storm drain or natural outlet or channel. In addition, the California Regional Water Quality Control Board, San Francisco Bay Region, has determined that the discharge prohibition shall not apply to the following "permissible" activities: water line flushing, landscape irrigation/lawn watering, uncontaminated foundation drains, uncontaminated non-industrial roof drains, irrigation water, uncontaminated groundwater infiltration, residential car washings, flows from fire fighting, flows from potable water sources, and dechlorinated swimming pool waters.
- (c) *Protection against accidental discharge.* The owner or operator of a commercial or industrial establishment shall provide reasonable protection from accidental discharge of prohibited materials or other wastes into the municipal storm drain system or watercourses. Facilities to prevent accidental discharge of prohibited materials or other wastes shall be provided and maintained at the owner or operator's expense.
- (d) *Report of accidental discharges.* Where an accidental discharge of prohibited materials or other wastes has entered the municipal storm drain system or a watercourse, such incident shall be reported to West Valley Sanitation District as soon as possible, but in no event later than twenty-four (24) hours after such a discharge. An accidental discharge of toxics must be reported immediately to Central Fire District—Phone 911. If the accidental discharge of prohibited materials or other wastes emanates from a commercial or industrial establishment, the owner or operator of such establishment shall also retain an on-site written record of the discharge and the actions taken to prevent its recurrence. Such records shall be retained for at least three (3) years. A notice shall be permanently posted in a conspicuous place on the premises of each commercial or industrial establishment advising employees of the department or agency to call in case of such an accidental discharge.

(Ord. No. 1940, § I, 5-3-93)

Sec. 22.30.020. - Water protection.

- (a) *Watercourse protection requirements.* Every person owning property through which a watercourse passes, or such person's lessee, shall keep and maintain that part of the

watercourse within the property reasonably free of trash, debris, excessive vegetation, and other obstacles that would pollute, contaminate, or significantly retard the flow of water through the watercourse. In addition, the owner or lessee shall maintain existing privately owned structures within or adjacent to a watercourse, so that such structures will not become a hazard to the use, function, or physical integrity of the watercourse. The owner or lessee shall not remove healthy bank vegetation beyond that actually necessary for maintenance, nor remove said vegetation in such a manner as to increase the vulnerability of the watercourse to erosion.

(b) *Acts requiring permit.* No person shall commit or cause to be committed any of the following acts unless a written permit has first been obtained from the building and engineering services department:

- (1) Discharge into or connect any pipe or channel to a watercourse;
- (2) Modify the natural flow of water in a watercourse;
- (3) Carry out development within a setback designed in whole or in part to protect a watercourse;
- (4) Deposit in, plant in, or remove any material from, a watercourse, including its banks, except as required for necessary maintenance;
- (5) Construct, alter, enlarge, connect to, change, or remove any structure in a watercourse; or
- (6) Place any loose or unconsolidated material along the side of or within a watercourse or so close to a side as to cause a diversion of the flow, or to cause a probability of such material being carried away by storm water passing through such watercourse.

(Ord. No. 1940, § I, 5-3-93)

Sec. 22.30.025. - Outdoor storage of materials.

- (a) *Proper outdoor storage of materials required.* All applicable materials stored outdoors at a commercial or industrial establishment shall be managed in a manner that minimizes the discharge of pollutants to storm water and as is required to meet water quality standards. Establishments covered by the general NPDES permit for storm water discharges "associated with industrial activities" that has been promulgated for Santa Clara County by the California Regional Water Quality Control Board, San Francisco Bay Region, shall address this requirement in applicable provisions of their storm water pollution prevention plan.
- (b) *Protection against accidental discharge.* The owner or operator of a commercial or industrial establishment shall provide reasonable protection from accidental discharge of applicable materials to the municipal storm drain system or watercourses. Specifically, secondary containment systems or equivalent measures approved by Building and Engineering Services

Department shall be provided for all applicable materials that are liquids. All facilities to prevent the accidental discharge of applicable materials to the municipal storm drain system and watercourses shall be provided and maintained at the owner or operator's expense.

- (c) *Report of accidental discharge to the storm drain.* Where applicable materials have entered the municipal storm drain system or a watercourse due to an accidental discharge at a commercial or industrial establishment, the owner or operator of such establishment shall report such incident to Central Fire Protection District as soon as possible, but in no event later than twenty-four (24) hours after such a discharge. The owner or operator of such establishment shall also retain an on-site written record of all accidental discharges of applicable materials (whether or not such discharge actually entered the municipal storm drain system or a watercourse) and the actions taken to prevent their recurrence. Such records shall be retained for at least five (5) years. A notice shall be permanently posted in a conspicuous place on the premises of each commercial or industrial establishment advising employees of the department or agency to call in case of such an accidental discharge.

(Ord. No. 1940, § I, 5-3-93)

Sec. 22.30.030. - Grease disposal and control.

- (a) *Grease disposal prohibited.* No person shall dispose of any grease, or cause any grease to be disposed, by discharge into any drainage piping, (any public or private sanitary sewer), any part of the municipal storm drain system, or any land, street, public way, river, stream, or other watercourse.
- (b) *Grease removal device required.* The owner or operator of every newly constructed, remodeled, or converted commercial or industrial establishment with one (1) or more grease generating activities shall install or cause to be installed for each grease generating activity, a grease removal device (of an approved design) for preventing the passage of grease to the municipal storm drain system and watercourses.
- (c) *Maintenance of grease removal devices required.* The contents of all grease removal devices shall be removed periodically as necessary to prevent a violation of this chapter. At a minimum, the contents shall be removed every ninety (90) days. All grease removal devices shall be kept in good repair, and shall be maintained in continuous operation at the owner or operator's expense.

(Ord. No. 1940, § I, 5-3-93)

Sec. 22.30.035. - New development/redevelopment.

- (a) *Storm water management required for major projects.* Every applicant for a building permit and/or grading permit for a major development or redevelopment project shall identify the potential for storm water to be discharged from the project site following completion of

construction activity and shall demonstrate that the plans, drawings, or specifications for such project include the installation of management techniques, practices, and control measures designed to mitigate the potential adverse impacts of storm water that may be discharged from the project site on an ongoing basis, including storm water treatment measures. In addition, applicants for building and/or grading permits for projects with significant pollution potential may be required to demonstrate that sources of pollutants will be controlled onsite with appropriate measures. The storm water management techniques, practices, and control measures ("mitigation measures") shall be selected, designed, and maintained in accordance with the town's current NPDES storm water discharge permit, and the town's policy for storm water management requirements for new development and redevelopment projects.

- (b) *Issuance of permits.* The town shall not issue a building permit or a grading permit for a major development or redevelopment project or a project with significant pollution potential until it has reviewed the mitigation measures proposed by the applicant pursuant to the preceding paragraph and determined that they are sufficient to address the potential adverse impacts of storm water that may be discharged from the project site on an ongoing basis.
- (c) *Occupancy.* The town shall not issue a certificate of occupancy for a major development or redevelopment project or a project with significant pollution potential until it has determined that the mitigation measures identified in the building permit and/or the grading permit issued for such project have been adequately implemented and that appropriate arrangements have been made to ensure that these management techniques, practices, and control measures will be maintained on an ongoing basis, in accordance with the town's current NPDES storm water discharge permit and the town's policy for storm water management requirements for new development and redevelopment project.

(Ord. No. 1940, § I, 5-3-93; Ord. No. 2125, § II, 1-20-04)

Sec. 22.30.040. - Enforcement.

- (a) *Criminal penalties.* Any person who knowingly violates any provision of this article shall be guilty of a misdemeanor and upon conviction thereof shall be punishable by imprisonment in the county jail for a term not to exceed six (6) months or by a fine not to exceed one thousand dollars (\$1,000.00) or by both. Each and every violation of this article shall constitute a separate offense. Every day each such violation continues shall be an additional offense.
- (b) *Civil penalties.* Any person who discharges any applicable materials, greases or pollutants into a watercourse or the municipal storm drain system in violations of any provision of this article shall be civilly liable to the Town of Los Gatos in a sum not to exceed two thousand dollars (\$2,000.00) per day for each day in which the violation occurs. In determining the amount of such award, the

court shall consider proof of such matters as justice may require. Subsequent or repeated violation, which are not committed contemporaneously with the initial violation, shall be treated as separate cause of action and shall be subject to a separate award of damages.

- (c) *Civil liability.* Any person who violates any provision of this article shall be civilly liable to the Town of Los Gatos for all costs, including attorneys fees, associated with the investigation, elimination and remediation of environmental conditions caused by the discharge of pollutants into the municipal storm drain system or a watercourse in violation of this article.
- (d) *Remedies cumulative.* The remedies provided for in this article are cumulative and not exclusive and shall be in addition to any and all other remedies available to the Town of Los Gatos under state and federal law.

(Ord. No. 1940, § I, 5-3-93)

Sec. 22.30.045. - Inspection and right of entry.

- (a) Whenever deemed necessary to make an inspection to ensure compliance with the requirements of this article or to enforce any provision of this article, or whenever the Town officer or agent, has reasonable cause to believe that there may be any condition upon any property or in any structure that may violate the requirements of this article, the authorized Town officer or agent may enter such property or structure at all reasonable times to inspect the same or to perform any duty imposed upon the Town officer or agent by this article. Should entry be refused, the officer or agent shall have recourse to every remedy provided by law to gain entry.
- (b) When a Town officer or agent has first obtained a property inspection or search warrant or other remedy provided by law to secure entry, no person having charge, care or control of any building or property shall fail or neglect after proper request is made as herein provided, to promptly permit entry by the authorized officer or agents. Violation of this subsection shall be a misdemeanor.

(Ord. No. 1990, § II, 10-17-94)