



CUPERTINO

PUBLIC WORKS DEPARTMENT
10300 TORRE AVENUE
CUPERTINO, CALIFORNIA 95014

PROJECT MANUAL

FOR THE

2018 PAVEMENT MAINTENANCE PHASE 1


Bid Date:

Tuesday November 28, 2017

Project Number: 2018-101

PROJECT MANUAL FOR
2018 PAVEMENT MAINTENANCE PHASE 1
PROJECT NO. 2018-101

REVIEWED BY:



Roger Lee
Assistant Director of Public Works

APPROVED BY:



Timm Borden
Director of Public Works

PROJECT DIRECTORY

Project Name: 2018 Pavement Maintenance Phase 1

Project Number: 2018-101

Location: Cupertino, Ca Various City Streets

City Representative:

City of Cupertino

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CUPERTINO

Notice Inviting Bids

1. **Bid Acceptance.** The City of Cupertino ("City") will accept sealed bids for its 2018 Pavement Maintenance Phase 1 Project ("Project"), by or before Tuesday November 28, 2017, at 2:00 p.m., at the City Clerk's Office, located at 10300 Torre Avenue, Cupertino, California, 95014 at which time the bids will be publicly opened in the City Hall lobby and read aloud. The City may, acting in its sole discretion, reject any and all bids, and may waive any immaterial deviation from the bid requirements to the full extent permitted by law.
2. **Project Information.**
 - 2.1 **Location and Description.** The Project is located on various city streets within the City of Cupertino, and is described as follows: The work generally consists of performing asphalt digout repairs, placing asphalt overlay, adjustment of utility covers, replacing traffic striping and pavement markers, replacing speed bumps, replacing traffic signal loop detectors and other miscellaneous work as outlined in the project specifications.
 - 2.2 **Time for Completion.** The planned time frame for commencement and completion of construction of the Project is: The notice to proceed is anticipated to be issued on or after June 7, 2018. All work shall be finally complete within 80 working days. All work on streets near schools shall be completed no later than August 10, 2018.
3. **License and Registration Requirements.**
 - 3.1 **License.** This Project requires a valid California contractor's license for the following classification(s): Class A or Class C-12.
 - 3.2 **DIR Registration.** City will 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 under Labor Code section 1725.5, subject to limited legal exceptions.
4. **Contract Documents.** The plans, specifications, bid forms and contract documents for the Project, and any addenda thereto ("Contract Documents") are available in electronic form only, and may be downloaded from City's website under "Open Bids" at: <http://www.cupertino.org/i-want-to/bid-on/open-bids> and may also be available from a local or regional plan room or trade journal.
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 City, 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 City issues the notice of award, the successful bidder will execute the Contract and submit the payment and performance bonds and insurance certificates and endorsements and any other submittals as required by the Contract Documents and specified in the notice of award.
6. **Prevailing Wage Requirements.**
 - 6.1 **General.** 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.

6.2 Rates. These prevailing rates are on file with the City and 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.

6.3 Compliance. The Contract will be subject to compliance monitoring and enforcement by the DIR, under Labor Code section 1771.4.

7. **Performance and Payment Bonds.** The successful bidder will be required to provide performance and payment bonds, each for 100% of the Contract Price.
8. **Substitution of Securities.** Substitution of appropriate securities in lieu of retention amounts from progress payments is permitted under Public Contract Code section 22300.
9. **Subcontractor List.** 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) 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 or, for construction of streets and highways, \$10,000 (whichever is greater), using the Subcontractor List form included with the Contract Documents.
10. **Subcontractor Limit.** The prime contractor is required to self-perform at least 50% of the Work on the Project, as further specified in the Instructions to Bidders.
11. **Instructions to Bidders.** All bidders should carefully review the Instructions to Bidders before submitting a Bid Proposal.

By: Kristen Aguirre Date: 10/30/17

For Grace Schmidt, City Clerk

Publication Date: October 27, 2017

Instructions to Bidders

Each Bid Proposal submitted to the City of Cupertino ("City") for its **2018 Pavement Maintenance Phase 1 Project** ("Project") must be submitted in accordance with the following instructions and requirements:

1. Bid Submission.

1.1 General. The Contract for the Project will be awarded, if at all, to the lowest responsible bidder, as determined by City. Each Bid Proposal must be signed, sealed and submitted to City, using the form provided in the Contract Documents, by or before the date and time set forth in the Notice Inviting Bids, or as amended by subsequent addendum. Faxed or emailed Bid Proposals will not be accepted, unless otherwise specified. Late submissions will be returned unopened. City reserves the right to postpone the date and 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 City. 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.

1.2 Bid Envelope. The envelope containing the sealed Bid Proposal and all required forms and attachments must be clearly labeled and addressed as follows:

BID PROPOSAL:

2018 Pavement Maintenance Phase 1 Project
Project No. 2018-101

City Clerk's Office
Cupertino City Hall
10300 Torre Avenue
Cupertino, CA 95014
Attn: City Clerk

The envelope must also be clearly labeled, as follows, with the bidder's name, address, for bidding on public works contracts (Labor Code sections 1725.5 and 1771.1):

[Contractor company name]
[street address]
[city, state, zip code]

1.3 DIR Registration. City will not accept a Bid Proposal from or enter into the Contract with a bidder without proof that the bidder is registered with the DIR to perform public work under Labor Code section 1725.5, subject to limited legal exceptions. If City is unable to confirm that the bidder's DIR registration is current at the time of bidding, City must disqualify the bidder and return its bid. (Labor Code section 1725.5.)

2. Bid Proposal Form and Enclosures. Each Bid Proposal must be completed in ink using the Bid Proposal form included in the Contract Documents. The Bid Proposal form must be fully completed without interlineations, alterations, or erasures. Any necessary corrections must be clear and legible, and must be initialed by the bidder's authorized representative. 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 4 below, and by a completed Bid Schedule, Subcontractor

List, and Non-Collusion Declaration using the forms included in the Project manual as directed.

3. **Authorization and Execution.** Each Bid Proposal must be signed by the bidder's authorized representative. A Bid Proposal submitted by a partnership must be signed in the partnership name by a general partner with authority to bind the partnership. A Bid Proposal submitted by a corporation must be signed with the legal name of the corporation, followed by the signature and title of two officers of the corporation with full authority to bind the corporation to the terms of the Bid Proposal, under California Corporation Code section 313.
4. **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, certified check, 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, made payable to City. The bid security must guarantee that, within ten days after issuance of the notice of 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; and submit the insurance certificates and endorsements and any other submittals, if any, required by the Contract Documents or the notice of award.
5. **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.

5.1 Incorrect Totals. In the event a computational error for any bid item (base bid or alternate) results in an incorrect extended total for that item, the submitted base bid or bid alternate total will be adjusted to reflect the corrected amount (as the product of the estimated quantity and the unit cost), unless the cumulative amount of correction changes the total amount of the base bid or bid alternate. In the event of a discrepancy between the actual total of the itemized or unit prices shown on the Bid Schedule for the base bid, and the amount entered as the base bid on the Bid Proposal form, the actual total of the itemized or unit prices shown on the Bid Schedule for the base bid will be deemed the base bid price. Likewise, in the event of a discrepancy between the actual total of the itemized or unit prices shown on the Bid Schedule for any bid alternate, and the amount entered for the alternate on the Bid Proposal form, the actual total of the itemized prices shown on the Bid Schedule for that alternate will be deemed the alternate price. Nothing in this provision is intended to prevent a bidder from requesting to withdraw its bid for material error under Public Contract Code section 5100 et seq.

5.2 Estimated Quantities. 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.

6. **Subcontractor Work Limits.** The prime contractor must perform at least the percentage of the Work on the Project specified in the Notice Inviting Bids, which is calculated as a percentage of the base bid price, with its own forces, except for any Work identified as "Specialty Work" in the Bid Schedule. The total bid amount for any such Specialty Work, as shown on the Bid Schedule, may be deducted from the base bid price before computing the the percentage the contractor must self-performance . The remaining Work may be performed by qualified Subcontractor(s).

7. **Bidder's Questionnaire.** A completed, signed Bidder's Questionnaire using the form provided with the Contract Documents and including all required attachments must be submitted within 2 working days following a request by City. A bid submitted by a bidder that does not fully comply with this requirement may be rejected as nonresponsive. A bidder who submits a Bidder's Questionnaire which is subsequently determined to contain false or misleading information, or material omissions, may be disqualified as non-responsive.

8. **Pre-Bid Investigation**

8.1 General. Each bidder is solely responsible at its sole expense for diligent and thorough review of the Contract Documents and documents provided "For Reference Only," which may include geotechnical reports, as-built or record drawings, utility diagrams, or other such information. Each bidder is also responsible for appropriate 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 City's property or the Project site without prior written authorization from City, and subject to the site investigation requirements set forth below. Bidders are responsible for reporting any errors or omissions in the Contract Documents to City prior to submitting a Bid Proposal, subject to the limitations of Public Contract Code section 1104.

8.2 Project Site. Soil and soil test data, water table elevations, and soil analyses for test holes, if any, may be available for inspection at the City's offices or as otherwise specified in the Contract Documents. Any subsurface exploration at the Project site must be done at the bidder's expense, but only with prior written authorization from City, and as further specified below in subsection 8.4. All soil data and analyses available for inspection or provided in the Contract Documents or in documents provided "For Reference Only," 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 Project 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 City'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. City expressly disclaims responsibility for assumptions a bidder might draw from the presence or absence of information provided by City. City does not warrant the accuracy of any representation of visible, above-ground conditions that may be independently investigated and verified by the bidder. The City disclaims responsibility for the accuracy of information regarding subsurface conditions that has been provided to City by others, such as utility owners.

8.3 Utilities. The Project must be completed in a manner that satisfies the standards and requirements of the affected utility companies or agencies (collectively, "utility owners"). The successful bidder may be required by the 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 utility owners about their requirements before submitting a Bid Proposal.

8.4 Site Investigation Requirements. Potential bidders will be required to execute an agreement to indemnify City and hold it harmless against any liability arising from site

investigation, testing or inspection using City's form Indemnity Agreement (Site Inspection) included with the Project Forms provided with the Contract Documents. The prospective bidder must ensure that any such site investigation is conducted in a manner to avoid endangering persons or damaging property, and must promptly and fully restore the site to its pre-investigation condition, including filling in holes and cleaning up. City reserves the right to impose additional conditions to site access or investigation in order to protect persons or property, including, but not limited to limitations on machinery used during the site investigation.

9. **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, and may also submit a Bid Proposal as a prime contractor.
10. **Requests for Information.** Questions or requests for clarifications regarding the Project, the bid procedures, or any of the Contract Documents must be submitted in writing to Roger Lee, Assistant Director of Public Works, at rogerl@cupertino.org. Oral responses are not authorized and are not binding on the City. 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 City in response to a written inquiry will be issued in an addendum.
11. **Addenda and Plan Holder's List.** Any addenda issued prior to the bid opening are part of the Contract Documents. Subject to the limitations of Public Contract Code section 4104.5, City reserves the right to issue addenda prior to bid time. Addenda will be posted electronically on the City's website at: <http://www.cupertino.org/i-want-to/bid-on/open-bids>. Notifications will also be transmitted to known plan holders. To be included on the plan holder's list for this Project, email the following information to pavementprojects@cupertino.org: bidder's name, address, phone number and email address, with the Project title included in the subject bar. Each bidder is responsible for ensuring it has received and reviewed all addenda prior to submitting its bid. All bidders, including bidders on the plan holder's list, should regularly check City's website for any addenda or updates on the Project.
12. **Pre-Bid Substitution Requests.** 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. A pre-bid request for substitution must be submitted no later than ten working days before the scheduled bid opening, using the City's Substitution Request Form. All data substantiating the proposed substitute as an equal item must be submitted with the written request for substitution, and all such requests are subject to the requirements and limitations applicable to substitution requests under Section 7.7 of the General Conditions, on Substitutions. These substitution provisions do not apply to materials, products, things, or services that may lawfully be designated by a specific brand or trade name under Public Contract Code section 3400(c).
13. **Withdrawal of Bid Proposals.** A Bid Proposal may not be withdrawn for a period of 90 days after the bid opening without forfeiture of the bid security, except as authorized for material error under Public Contract Code section 5100 et seq.
14. **Bid Protest.** Any bid protest must be in writing and received by City at 10300 Torre Ave, or via email at rogerl@cupertino.org before 5:00 p.m. no later than two Working Days following bid opening (the "Bid Protest Deadline") and must comply with the following requirements:

14.1 Eligibility. Only a bidder who has actually submitted a responsive Bid Proposal, as determined by City, 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, a "Working Day" means a day that City is open for normal business, and excludes weekends and holidays observed by City.

14.2 Protest Contents. The bid protest must contain a complete statement of the basis for the protest and 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 representing the protesting bidder.

14.3 Copy to Protested Bidder. Upon submission of its bid protest to City, 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.

14.4 Response to Protest. The protested bidder may submit a written response to the protest, provided the response is received by City 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 include 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 representing the protested bidder if different from the protested bidder.

14.5 Copy to Protesting Bidder. Upon submission of its response to the bid protest to the City, 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.

14.6 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.

14.7 Right to Award. City 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.

- 15. Reservation of Rights.** To the full extent permitted by law, City reserves the right, acting in its sole discretion, to waive or to decline to waive any immaterial bid irregularities, to accept or reject any and all bids, or to abandon the Project entirely. The Contract will be awarded, if at all, within 90 days after opening of bids or as otherwise specified in the Special Conditions, to the responsible bidder that submitted the lowest responsive bid. Any date given for planned commencement of the Project given in Section 2.2 of the Notice Inviting Bids is provided as informative of City's expectations at the time the Notice Inviting Bids was first issued. City is not bound to issue a Notice to Proceed by or before such

planned commencement date, and reserves the right to issue the Notice to Proceed when the City determines, in its sole discretion, the appropriate time for commencing the Work.

16. **Bonds.** The successful bidder is required to submit payment and performance bonds as specified in the Contract Documents using the bond forms included in the Contract Documents, within ten days following City's issuance of the notice of award. All required bonds must be calculated on the maximum total Contract Price as awarded, including additive alternates, if applicable.
17. **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. and must also obtain a City Business License before beginning Work on the Project, unless its sole business contact within the City is the sale of goods or services to the City itself.
18. **Ineligible Subcontractor.** Any Subcontractor who is ineligible to perform work on a public works project under Labor Code sections 1777.1 or 1777.7 is prohibited from performing work on the Project.
19. **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 section 6707.

END OF INSTRUCTIONS TO BIDDERS

Bidder's Name: _____

Bid Proposal

2018 Pavement Maintenance Phase 1 Project

< _____ > ("Bidder") hereby submits this Bid Proposal to the City of Cupertino ("City") for the above-referenced project ("Project") in response to the Notice Inviting Bids and in accordance with the Contract Documents referenced therein.

1. **Base Bid.** Bidder proposes to perform and fully complete the Work for the Project as specified in the Contract Documents, within the time required for full completion of the Work, including all labor, materials, supplies, and equipment and all other direct or indirect costs including, but not limited to, taxes, insurance and all overhead for the following price ("Base Bid"):
\$ _____.

2. **Addenda.** Bidder agrees that it has confirmed receipt of or access to, and reviewed, all addenda issued for this Bid. Bidder specifically acknowledges receipt of the following addenda:

Addendum:	Date Received:	Addendum:	Date Received:
#01	_____	#05	_____
#02	_____	#06	_____
#03	_____	#07	_____
#04	_____	#08	_____

3. **Bidder's Warranties.** By signing and submitting this Bid Proposal, Bidder warrants the following:

3.1 **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 section 1104.

3.2 **Examination of Worksite.** Bidder has had the opportunity to examine the Worksite and local conditions at the Project location.

3.3 **Bidder is Qualified.** Bidder is fully qualified to perform the Work.

3.4 **Responsibility for Bid.** Bidder has carefully reviewed this Bid Proposal and is solely responsible for any errors or omissions contained in its completed Bid.

4. **Award of Contract.** By signing and submitting this Bid Proposal, Bidder agrees that if Bidder is awarded the Contract for the Project, within ten days following issuance of the notice of award to Bidder, Bidder will do all of the following:

4.1 **Execute Contract.** Enter into the Contract with City in accordance with the terms of this Bid Proposal, by signing and submitting to City the Contract prepared by City using the form included with the Contract Documents;

4.2 **Submit Required Bonds.** Submit to City 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; and

4.3 **Insurance Requirements.** Submit to City the insurance certificate(s) and endorsement(s) as required by the Contract Documents.

Bidder's Name: _____

5. **Bid Security.** As a guarantee that, if awarded the Contract, Bidder will perform its obligations under Section 4 above, Bidder is enclosing bid security in the amount of ten percent of its maximum bid amount in one of the following forms (check one):

_____ A cashier's check or certified check payable to City and issued by
_____ [Bank name] in the amount of
\$_____.

_____ A bid bond, using the Bid Bond form included with the Contract Documents, payable to City and executed by a surety licensed to do business in the State of California.

This Bid Proposal is hereby submitted on _____, 20__.

Bidder Business Name

Date

Signature

Signature

Name/Title (If Corporation: Chairman, President or Vice President)

Name/Title (If Corporation: Secretary, Assistant Secretary, Chief Financial Officer or Assistant Treasurer)

License #, Expiration Date, and Classification

DIR Registration #

Address

Phone

City, State, Zip

Contact Name/Title

Contact Phone

Contact Email

END OF BID PROPOSAL

Bidder's Name: _____

Bid Schedule

This Bid Schedule must be completed in ink and included with the sealed 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.

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

BID ITEM NO.	ITEM DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENDED TOTAL AMOUNT
1	Traffic Control	1	EA	\$	\$
2	Leveling Course -No. 4 Hot Mix Asphalt Type A	4,088	TN	\$	\$
3	Hot Mix Asphalt, 1/2" Maximum Type A	17,657	TN	\$	\$
4	Pavement Fabric	151,238	SY	\$	\$
5	Keycut A	71,018	LF	\$	\$
6	keycut B	5,750	LF	\$	\$
7	Dig Out 6" AC	841	SY	\$	\$
8	Adjust Survey Monument Cover to Finish Grade	155	EA	\$	\$
9	Replace Monument Box	0	EA	\$	\$
10	Lower Manhole Covers Prior to Cold Planing	51	EA	\$	\$
11	Lower Cleanout / Water / Gas Valve Cover Prior to Cold Planing	26	EA	\$	\$
12	Adjust Manhole Covers to Finish Grade	200	EA	\$	\$
13	Adjust Cleanout / Water / Gas Valve Cover to Finish Grade	29	EA	\$	\$
14	Install Blue RPM's @ Fire Hydrant	48	EA	\$	\$
15	6" White Lines (Thermo)	210	LF	\$	\$
16	12" White Hatch (Thermo)	140	LF	\$	\$
17	12" White Crosswalk/Limit Line (Thermo)	1,540	LF	\$	\$
18	12" Yellow Crosswalk (Thermo)	300	LF	\$	\$
19	24" White (Thermo)	410	LF	\$	\$
20	24" Yellow (Thermo)	210	LF	\$	\$
21	Striping Detail #10 (Markers)	0	LF	\$	\$
22	Striping Detail # 22 (Thermo & Markers)	5,550	LF	\$	\$
23	Striping Detail 38 (Thermo & Markers)	40	LF	\$	\$
24	Striping Detail # 39 (Thermo)	0	LF	\$	\$
25	Striping Detail # 39A (Thermo)	0	LF	\$	\$

Bidder's Name: _____

BID ITEM NO.	ITEM DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENDED TOTAL AMOUNT
26	Striping Detail # 40A (Thermo)	40	LF	\$	\$
27	"Ahead Legend" Yellow (Pre-formed thermo)	3	LF	\$	\$
28	"STOP" Legend (Pre-formed Thermo)	39	EA	\$	\$
29	"SLOW" Legend (Pre-formed Thermo)	1	EA	\$	\$
30	"SCHOOL" Legend (Pre-formed Thermo)	1	EA	\$	\$
31	"XING" Legend (Pre-formed Thermo)	1	EA	\$	\$
32	"25" Legend (Pre-formed Thermo)	11	EA	\$	\$
33	"YIELD" Legend (Pre-formed Thermo)	2	EA	\$	\$
34	"BUMP" Legend (Pre-formed Thermo)	12	EA	\$	\$
35	Bike Rider Symbol and Arrow Left Facing (Preformed Thermo)	1	EA	\$	\$
36	Green Bike Lane (Pre-formed Thermo)	1,500	EA	\$	\$
37	Bike Rider Symbol Left Facing (Pre-formed white on green)	1	EA	\$	\$
38	Bike Rider Arrow (Pre-Formed white on green)	1	EA	\$	\$
39	Arrow Type III (Pre-formed Thermo)	1	EA	\$	\$
40	Arrow Type IV (Pre-formed Thermo)	8	EA	\$	\$
41	Replace Traffic Signal Loops	28	EA	\$	\$
42	Remove/Install Speed Bump (City detail 17- A)	0	EA	\$	\$
43	Remove/Install Speed Bump (Modified City detail 17-A 12' section)	7	EA	\$	\$
44	6" AC Dike	150	LF	\$	\$

TOTAL BASE BID: Items 1 through _____ inclusive: \$ _____

Note: The amount entered as the "Total Base Bid" should be identical to the Base Bid amount entered in Section 1 of the Bid Proposal form.

BIDDER NAME: _____

END OF BID SCHEDULE

Bidder's Name: _____

Subcontractor List

For each Subcontractor that will perform a portion of the Work in an amount in excess of one-half of 1% of the Bidder's total Contract Price,¹ the bidder must list a description of the Work, the name of the Subcontractor, its California contractor license number, the location of its place of business, its DIR registration number, and the portion of the Work that the Subcontractor is performing based on a percentage of the Base Bid price. Bidder may not list more than one Subcontractor for each such portion of the Work listed by Bidder below.

DESCRIPTION OF WORK	SUBCONTRACTOR NAME	CALIFORNIA CONTRACTOR LICENSE NO.	LOCATION OF BUSINESS	DIR REG. NO.	PERCENT OF WORK

END OF SUBCONTRACTOR LIST

¹ For street or highway construction this requirement applies to any subcontract of \$10,000 or more.

Bidder's Name: _____

Noncollusion Declaration

TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

The undersigned declares:

I am the _____ [title] of _____
[business name], the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid and will not pay, any person or entity for such purpose.

This declaration is intended to comply with California Public Contract Code section 7106 and Title 23 U.S.C section 112.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on _____ [date], at _____ [city], _____ [state].

s/ _____

Name [print]

END OF NONCOLLUSION DECLARATION

Bid Bond

_____ ("Bidder") has submitted a bid, dated _____, 20____ ("Bid"), to City of Cupertino ("City") for work on **the 2018 Pavement Maintenance Phase 1 Project** ("Project"). Under this duly executed bid bond ("Bid Bond"), Bidder as Principal and _____, its surety ("Surety"), are bound to City as obligee in the penal sum of ten percent of the maximum amount of the Bid (the "Bond Sum"). Bidder and Surety bind themselves and their respective heirs, executors, administrators, successors and assigns, jointly and severally, as follows:

1. **General.** If Bidder is awarded the Contract for the Project, Bidder will enter into the Contract with City in accordance with the terms of the Bid.
2. **Submittals.** Within ten days following issuance of the Notice of Award to Bidder, Bidder must submit to City the following:
 - 2.1 **Contract.** The executed Contract, using the form provided by City in the Project contract documents ("Contract Documents");
 - 2.2 **Payment Bond.** A payment bond for 100% of the maximum Contract Price, executed by a surety licensed to do business in the State of California using the Payment Bond form included with the Contract Documents;
 - 2.3 **Performance Bond.** A performance bond for 100% of the maximum Contract Price, executed by a surety licensed to do business in the State of California using the Performance Bond form included with the Contract Documents; and
 - 2.4 **Insurance.** The insurance certificate(s) and endorsement(s) required by the Contract Documents, and any other documents required under the Instructions for Bidders.
3. **Enforcement.** If Bidder fails to execute the Contract and to submit the bonds and insurance certificates as required by the Contract Documents, Surety guarantees that Bidder forfeits the Bond Sum to City. Any notice to Surety may be given in the manner specified in the Contract and delivered or transmitted to Surety as follows:

Attn: _____
Address: _____
City/State/Zip: _____
Phone: _____
Fax: _____
Email: _____
4. **Duration; Waiver.** If Bidder fulfills its obligations under Section 2, above, then this obligation will be null and void; otherwise it will remain in full force and effect for 90 days following award of the Contract or until this Bid Bond is returned to Bidder, whichever occurs first. Surety waives the provisions of Civil Code sections 2819 and 2845.

[Signatures are on the following page.]

This Bid Bond is entered into and effective on _____, 20_____.

SURETY: _____

Business name

s/ _____

Name/Title

(Acknowledgement with Notary Seal for Surety, and Surety's Power of Attorney-In-Fact
Certificate must be attached.)

BIDDER: _____

Business name

s/ _____

Name/Title

END OF BID BOND

Bidder's Questionnaire

2018 PAVEMENT MAINTENANCE PHASE 1 PROJECT

Within 2 working days following a request by the City of Cupertino ("City"), a bidder must submit to City a completed, signed Bidder's Questionnaire using this form and including all required attachments. City may request the Questionnaire from one or more of the apparent low bidders following the bid opening, and may use the completed Questionnaire to evaluate a bidder's qualifications for this Project. The Questionnaire must be filled out completely, accurately, and legibly. Any errors, omissions, or misrepresentations in completion of the Questionnaire may be grounds for rejection of the bid or termination of a Contract awarded pursuant to the bid.

Part 1: General Information

Bidder's Full Legal (Business) Name: _____
("Bidder")

Check One: ☐ Corporation
 ☐ Partnership
 ☐ Sole Proprietorship
 ☐ Joint Venture of: _____ *

☐ Other: _____

Address: _____

Phone: _____

Owner of Business: _____

Contact Person: _____

Email: _____

Bidder's California Contractor's License Number(s): _____

Bidder's Federal I.D. Number: _____

** If Bidder is a joint venture identify each member and the role of each member of the joint venture, and provide a completed Bidder's Questionnaire for each member of the joint venture.*

Part 2: Bidder Experience

1. How many years has Bidder been in business under its present business name? _____ years

2. Has Bidder completed projects similar in type and size to this Project as a general contractor?
_____ Yes _____ No

3. Has Bidder ever been disqualified on grounds that it is not responsible?
_____ Yes _____ No

If yes, provide additional information on a separate sheet of paper regarding the disqualification, including the name and address of the agency or owner of the subject project, the type and size

of the project, the reasons that Bidder was disqualified as not responsible, and the month and year in which the disqualification occurred.

4. Has Bidder ever been terminated from a construction project, either as a general contractor or as a subcontractor?

☐ Yes ☐ No

If yes, provide additional information on a separate sheet of paper regarding the termination, including the name and address of the agency or owner of the subject project, the type and size of the project, whether Bidder was under contract as a general contractor or a subcontractor, the reasons that Bidder was terminated, and the month and year in which the termination occurred.

5. Has Bidder's contractor's license(s) ever been revoked?

☐ Yes ☐ No

If yes, provide additional information on a separate sheet of paper regarding each revocation, including the license classification and license number, the reason(s) the license was revoked, the date of revocation, and the date of reinstatement.

6. Has Bidder ever been fined or disbarred for failure to comply with state or federal prevailing wage requirements?

☐ Yes ☐ No

If yes, provide additional information on a separate sheet of paper regarding each fine or disbarment, including the reason(s) for the fine or disbarment, the agency that imposed the fine or disbarment, the date(s) of the fine or disbarment, and identify the project and project owner for which the Bidder was determined to be non-compliant with prevailing wage requirements.

7. Has Bidder ever been subject to civil or criminal penalties or other adverse action for violation(s) of health, safety or environmental laws or regulations?

☐ Yes ☐ No

If yes, provide additional information on a separate sheet of paper regarding each such violation, including the reason(s) for the determination against Bidder, the agency that determined Bidder to be in violation, the nature and date(s) of such penalty or other adverse action, and identify the project and project owner for which the Bidder was determined to be in violation of health, safety or environmental laws or regulations.

8. Has Bidder ever been fined or convicted for unlawful labor practices, including, but not limited to, employment of undocumented workers?

☐ Yes ☐ No

If yes, provide additional information on a separate sheet of paper regarding each such fine or conviction, including the nature and date(s) of the violation(s), the agency that determined Bidder to be in violation, and identify the project and project owner in relation to which the Bidder was fined or convicted of unlawful labor practices.

9. Provide information about Bidder's past projects performed as general contractor as follows:

9.1 Four most recently completed public works projects within the last three years;

9.2 Three largest completed projects within the last three years; and

9.3 At least three projects which are similar to this project including magnitude and character of the Work.

10. Use separate sheets of paper to provide all of the following information for each project identified in response to the above three categories, under section 10:

- 10.1 Project name
- 10.2 Location
- 10.3 Owner
- 10.4 Owner contact (name and current phone number)
- 10.5 Architect or engineer name
- 10.6 Architect or engineer contact (name and current phone number)
- 10.7 Project manager (name and current phone number)
- 10.8 Description of project and scope of work performed
- 10.9 Initial contract value (at time of bid award)
- 10.10 Final cost of construction (including change orders)
- 10.11 Original scheduled completion date
- 10.12 Time extensions granted (number of days)
- 10.13 Actual date of completion
- 10.14 Number and amount of stop notices or mechanic's liens filed
- 10.15 Amount of liquidated damages assessed against Bidder
- 10.16 Nature and resolution of any claim, lawsuit, and/or arbitration between Bidder and the owner.

Part 3: Bonds and Insurance

1. Bidder's current bonding capacity is: \$_____.
2. Provide the following information regarding Bidder's bond surety and bond agent:

Surety's Name: _____

NAIC#: _____

Address: _____

Phone: _____

Surety's A.M. Best Ratings for financial size and strength: _____

Is surety an admitted surety in California? _____ Yes _____ No

Bond agent name, address and phone:

Percentage rate paid for payment, performance and warranty bonds: ____%

3. Provide the following information regarding Bidder's insurance policies and insurers:

Commercial General Liability:

Insurer name, address and phone: _____

NAIC#: _____

Insurer A.M. Best's rating for financial size and financial strength: _____

Policy number and expiration date: _____

Coverage limits: \$_____ per occurrence, and \$_____ aggregate

Automobile Liability:

Insurer name, address and phone: _____

NAIC#: _____

Insurer A.M. Best's rating for financial size and financial strength: _____

Policy number and expiration date: _____

Coverage limits: \$_____ per occurrence, and \$_____ aggregate

Workers' Compensation:

Insurer name, address and phone: _____

NAIC#: _____

Insurer A.M. Best's rating for financial size and financial strength: _____

Policy number and expiration date: _____

Coverage limits: \$_____ per occurrence, and \$_____ aggregate

Excess or Umbrella Liability:

Insurer name, address and phone: _____

NAIC#: _____

Insurer A.M. Best's rating for financial size and financial strength: _____

Policy number and expiration date: _____

Coverage limits: \$_____ per occurrence, and \$_____ aggregate

Part 4: Verification

In signing this document, I, the undersigned, declare that I am duly authorized to sign and submit this Bidder's Questionnaire on behalf of the named Bidder, and that all responses and information set forth in this Bidder's Questionnaire and accompanying attachments are, to the best of my knowledge, true, accurate and complete as of the date of submission. City is hereby authorized to obtain a credit report(s) or conduct additional investigation to verify the information provided above or additional information that City deems relevant to its determination of whether Bidder is a "responsible bidder," as that term is defined in Public Contract Code section 1103. **I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.**

Signature: _____ Date: _____

By: _____
Name and Title

END OF BIDDER'S QUESTIONNAIRE

Contract

This public works contract ("Contract") is entered into by and between the City of Cupertino ("City"), a municipal corporation, and _____ ("Contractor"), for work on the **2018 Pavement Maintenance Phase 1 Project** ("Project").

The parties agree as follows:

1. **Award of Contract.** In response to the Notice Inviting Bids, Contractor has submitted a Bid Proposal and accompanying Bid Schedule, a copy of which is attached for convenience as Exhibit A, to perform the Work to construct the Project. On _____, 20____, City authorized award of this Contract to Contractor for the amount of Contractor's bid.
2. **Contract Documents.** The Contract Documents incorporated into this Contract include and are comprised of all of the following:
 - 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 Bond, Performance Bond and, if required, a Warranty Bond;
 - 2.7 General Conditions;
 - 2.8 Special Conditions;
 - 2.9 Project Drawings and Specifications;
 - 2.10 Change Orders, if any;
 - 2.11 Notice of Award;
 - 2.12 Notice to Proceed;
 - 2.13 City of Cupertino Standard Details; and
 - 2.14 The following: Typical Sections and Keycut Details, Caltrans Standard Details, Work Hour Restrictions
3. **Contractor's Obligations.** Contractor agrees to 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, and utilities, unless otherwise specified in the Contract Documents. Contractor must use its best efforts to 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, City will pay Contractor \$_____ (the "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 within 80 Working days from the commencement date given in the Notice to Proceed ("Contract Time"). By signing below, Contractor expressly waives any claim for delayed early completion.
6. **Liquidated Damages.** If Contractor fails to complete the Work within the Contract Time, City will assess liquidated damages in the amount of \$3000.00 per day for each day of

unexcused delay in completion, and such liquidated damages may be deducted from City'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.

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. City will 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 under Labor Code section 1725.5, subject to limited legal exceptions.

8. Workers' Compensation Certification. Under Labor Code section 1861, by signing this Contract, Contractor certifies as follows: "I am aware of the provisions of Labor Code section 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 City ordinance or policy or in violation of any California law, including under Government Code section 1090 et seq. and under the Political Reform Act as set forth in Government Code section 81000 et seq. and its accompanying regulations. No officer, official, employee, consultant, or other agent of the City ("City Representative") may have, maintain, or acquire a "financial interest" in the Contract, as that term is defined under the Political Reform Act (Government Code section 81000, et seq., and regulations promulgated thereunder); or under Government Code section 1090, et seq.; or in violation of any City ordinance or policy while serving as a City Representative or for one year thereafter. 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 City and are not entitled to participate in any health, retirement, or any other employee benefits from City.

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 (or comparable) file. Notice is deemed effective upon delivery unless otherwise specified. Notice for each party must be given as follows:

City:

Name: City of Cupertino

Address: 10300 Torre Avenue
City/State/Zip: Cupertino, CA 95014
Phone: 408-777-3354
Attn: Roger Lee
Email: rogerl@cupertino.org
Copy to: joannej@cupertino.org

Contractor:

Name: _____
Address: _____
City/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 City's written consent. This Contract is binding on Contractor's and City's lawful heirs, successors and permitted assigns.
- 12.2 Third Party Beneficiaries.** There are no intended third party beneficiaries to this Contract except as expressly provided in the General Conditions or Special Conditions.
- 12.3 Governing Law and Venue.** This Contract will be governed by California law and venue will be in the Superior Court of Santa Clara County, and no other place.
- 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; Severability.** 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 City and Contractor. If any provision of the Contract Documents, or portion of a provision, is determined to be illegal, invalid, or unenforceable, the remaining provisions of the Contract Documents will remain in full force and effect.
- 12.6 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 Corporation Code section 313.

[Signatures are on the following page.]

The parties agree to this Contract as witnessed by the signatures below:

CONTRACTOR

<insert full name of Contractor above> **CITY OF CUPERTINO**
A Municipal Corporation

By _____
Name _____
Title _____
Date _____

By _____
David Brandt
City Manager
Date _____

By _____
Name _____
Title _____
Date _____

APPROVED AS TO FORM:

By _____
Name _____
City Attorney
Date _____

ATTEST:

Grace Schmidt
City Clerk
Date _____

Contract Amount: _____
P.O. No. _____
Account No. _____

END OF CONTRACT

Payment Bond

The City of Cupertino ("City") and _____ ("Contractor") have entered into a contract, dated _____, 20____ ("Contract") for work on the **2018 Pavement Maintenance Phase 1 Project** ("Project"). The Contract is incorporated by reference into this Payment Bond ("Bond").

1. **General.** Under this Bond, Contractor as principal and _____, its surety ("Surety"), are bound to City as obligee in an amount not less than \$_____, under California Civil Code sections 9550, et seq.
2. **Surety's Obligation.** If Contractor or any of its Subcontractors fails to pay any of the persons named in California Civil Code section 9100 amounts due under the Unemployment Insurance Code with respect to work or labor performed under the Contract, or for any amounts required to be deducted, withheld, and paid over to the Employment Development Department from the wages of employees of Contractor and its Subcontractors, under California Unemployment Insurance Code section 13020, with respect to the work and labor, then Surety will pay for the same.
3. **Beneficiaries.** This Bond inures to the benefit of any of the persons named in California Civil Code section 9100, so as to give a right of action to those persons or their assigns in any suit brought upon this Bond. Contractor must promptly provide a copy of this Bond upon request by any person with legal rights under this Bond.
4. **Duration.** If Contractor promptly makes payment of all sums for all labor, materials, and equipment furnished for use in the performance of the Work required by the Contract, in conformance with the time requirements set forth in the Contract and as required by California law, Surety's obligations under this Bond will be null and void. Otherwise, Surety's obligations will remain in full force and effect.
5. **Waivers.** Surety waives any requirement to be notified of alterations to the Contract or extensions of time for performance of the Work under the Contract. Surety waives the provisions of Civil Code sections 2819 and 2845. City waives requirement of a new bond for any supplemental contract under Civil Code section 9550. Any notice to Surety may be given in the manner specified in the Contract and delivered or transmitted to Surety as follows:

Attn: _____
Address: _____
City/State/Zip: _____
Phone: _____
Fax: _____
Email: _____
6. **Law and Venue.** This Bond will be governed by California law, and any dispute pursuant to this Bond will be venued in the Superior Court of Santa Clara County in which the Project is located, and no other place. Surety will be responsible for City's attorneys' fees and costs in any action to enforce the provisions of this Bond.

7. **Effective Date; Execution.** This Bond is entered into and is effective on _____, 20__.

SURETY: _____
Business Name

s/ _____

Name/Title

(Acknowledgment with Surety's Notary Seal and Surety's Power of Attorney must be attached.)

CONTRACTOR: _____
Business Name

s/ _____

Name/Title

s/ _____

Name/Title

APPROVED BY CITY OF CUPERTINO:

s/ _____

Name/Title

END OF PAYMENT BOND

Performance Bond

The City of Cupertino ("City") and _____ ("Contractor") have entered into a contract, dated _____, 20____ ("Contract") for work on the **2018 Pavement Maintenance Phase 1 Project** ("Project"). The Contract is incorporated by reference into this Performance Bond ("Bond").

1. **General.** Under this Bond, Contractor as Principal and _____, its surety ("Surety"), are bound to City as obligee for an amount not less than \$_____. By executing this Bond, Contractor and Surety bind themselves and their respective heirs, executors, administrators, successors and assigns, jointly and severally, to the provisions of this Bond.
2. **Surety's Obligations; Waiver.** If Contractor fully performs its obligations under the Contract, including its warranty obligations under the Contract, Surety's obligations under this Bond will become null and void upon recordation of the notice of completion, provided Contractor has timely provided a warranty bond as required under the Contract. Surety waives any requirement to be notified of and further consents to any alterations to the Contract made under the applicable provisions of the Contract Documents, including changes to the scope of Work or extensions of time for performance of Work under the Contract. Surety waives the provisions of Civil Code sections 2819 and 2845.
3. **Application of Contract Balance.** Upon making a demand on this Bond, City will make the Contract Balance available to Surety for completion of the Work under the Contract. For purposes of this provision, the Contract Balance is defined as the total amount payable by City to Contractor as the Contract Price minus amounts already paid to Contractor, and minus any liquidated damages, credits, or backcharges to which City is entitled under the terms of the Contract.
4. **Contractor Default.** Upon written notification from City that Contractor is in default under Article 13 of the Contract General Conditions, time being of the essence, Surety must act within the time specified in Article 13 to remedy the default through one of the following courses of action:
 - 4.1 Arrange for completion of the Work under the Contract by Contractor, with City's consent, but only if Contractor is in default solely due to its financial inability to complete the Work;
 - 4.2 Arrange for completion of the Work under the Contract by a qualified contractor acceptable to City, and secured by performance and payment bonds issued by an admitted surety as required by the Contract Documents, at Surety's expense; or
 - 4.3 Waive its right to complete the Work under the Contract and reimburse City the amount of City's costs to have the remaining Work completed.
5. **Surety Default.** If Surety defaults on its obligations under the Bond, City will be entitled to recover all costs it incurs due to Surety's default, including legal, design professional, or delay costs.
6. **Notice.** Any notice to Surety may be given in the manner specified in the Contract and delivered or transmitted to Surety as follows:

Attn: _____

Address: _____

City/State/Zip: _____
Phone: _____
Fax: _____
Email: _____

7. **Law and Venue.** This Bond will be governed by California law, and any dispute pursuant to this Bond will be venued in the Superior Court for Santa Clara County in which the Project is located, and no other place. Surety will be responsible for City's attorneys' fees and costs in any action to enforce the provisions of this Bond.
8. **Effective Date; Execution.** This Bond is entered into and effective on _____, 20____.

SURETY: _____
Business Name

s/ _____

Name/Title [print]

(Acknowledgment with Notary Seal for Surety and Surety's Power of Attorney must be attached.)

CONTRACTOR: _____
Business Name

s/ _____

Name/Title

s/ _____

Name/Title

APPROVED BY CITY OF CUPERTINO:

s/ _____

Name/Title

END OF PERFORMANCE BOND

General Conditions

Article 1 – Definitions

Definitions. The following definitions apply to all of the Contract Documents unless otherwise indicated. 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 City, which changes the scope of Work, the Contract Price, or the Contract Time.

City means the City of Cupertino, acting through its City Council, officers, employees, City Engineer, and any other authorized representatives.

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

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

Contract means the signed agreement between City and Contractor.

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 award and notice to proceed; the payment, performance and warranty bonds; the General Conditions; the Special Conditions; the Project Drawings and Specifications; any Change Orders; and any other documents expressly made part of the Contract Documents.

Contract Price means the total compensation to be paid to Contractor for performance of the Work, as set forth in the Contract and as 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 City to perform the Work.

Day means a calendar day unless otherwise specified.

Design Professional means the licensed individual(s) or firm(s) retained by City to provide architectural or engineering 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 means the City-provided plans and graphical depictions of the Project requirements, and does not include Shop Drawings.

Engineer means the City Engineer for the City of Cupertino and his or her authorized delegates.

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; 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, including all punch list items, any required commissioning or training, and has provided all required submittals, including the warranty bond, instructions and manuals, product warranties and as-built drawings to City's satisfaction.

Final Payment means payment to Contractor of the unpaid Contract Price, including release of undisputed retention, less amounts withheld pursuant to the Contract Documents, including liquidated damages, up to 125% of the amount of any unreleased stop notice, amounts subject to setoff, up to 150% of any unresolved third-party claim for which Contractor is required to indemnify City, and up to 150% of any amount in dispute as authorized by Public Contract Code section 7107.

Furnish means to purchase and deliver to the Worksite designated for installation.

Hazardous Materials means any substance or material identified now or in the future as hazardous under any federal, state, or local law or regulation, or any other substance or material that may be considered hazardous or otherwise subject to statutory or regulatory requirements 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 City to inspect the workmanship, materials, and manner of construction of the Project and its components to ensure compliance with the Contract Documents and all applicable codes, regulations, and permits.

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

Plans has the same meaning as Drawings.

Project means the public works project referenced in the Contract.

Project Manager means the individual designated by City to oversee and manage the Project on City's behalf and may include his or her authorized delegate(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.

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

Section as used in these General Conditions, means a numbered Section of the General Conditions, unless otherwise indicated by the context, e.g., statutory references.

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

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

Specifications means the technical, text specifications describing the Project requirements, which are prepared for and incorporated into this Project by or on behalf of City, 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, suppliers, fabricators, and equipment lessors of all tiers, unless otherwise indicated by the context.

Technical Specifications means Specifications.

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 City is open for business, and does not include holidays observed by the City or furlough days when City staff is unavailable.

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 or fabrication.

Article 2 - Roles and Responsibilities

2.1 City.

(A) **City Council.** The City Council has final authority in all matters affecting the Project, except to the extent it has delegated such authority to the Engineer.

(B) **Engineer.** The Engineer, acting within the authority conferred by the City Council, has primary responsibility for administration of the Project on behalf of City, 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) **Design Professional.** The Design Professional is responsible for the overall design of the Project and, to the extent authorized by City, may act on City's behalf to ensure performance of the Work in compliance with the Contract Documents. The Design Professional's interpretation of the Drawings or Specifications is final and conclusive.

2.2 Contractor.

(A) **General.** Contractor must provide all labor, materials, supplies equipment and services and incidentals necessary to perform and timely complete the Work in strict accordance with the Contract Documents, and in an economic and efficient manner in the best interests of City, 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, 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 City or specified in the Contract Documents. From the date of commencement of the Work until either the date on which City 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 the Work site, 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 City, and assistants as necessary, who must be physically present at the Project site while any aspect of the Work is being performed. City's approval of the superintendent is required before the Work commences. If City is not satisfied with the superintendent's performance, City 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 the approved superintendent is physically present to supervise the Work. Contractor must provide written notice to City, as soon as practicable, before replacing the superintendent.

(E) **Standards; Compliance.** Contractor must, at all times, ensure that the Work is performed in a good, workmanlike manner following best practices and in full compliance with the Contract Documents and all applicable laws, regulations, codes, standards, and permits, including City's municipal code, rules, and regulations, and any orders of the administrative or judicial bodies with jurisdiction over the Work.

(F) **Meetings.** Contractor, its superintendent, and its major Subcontractors and suppliers will be required to attend a Preconstruction Conference before beginning Work on the Project, and will also be required to attend regular progress meetings, as further specified below. City will notify Contractor in advance of the date, time, place and required attendees for the Preconstruction Conference and progress meetings and will provide and administer the agenda. Contractor is responsible for notifying its major Subcontractors and suppliers, and other required attendees, as applicable, of the date, time and place for the Preconstruction Conference and progress meetings; for providing them with the City's agenda; and for requiring their attendance at these meetings.

- (1) *Preconstruction Conference.* The Preconstruction Conference agenda items may include
- (2) s, personnel and vehicle permit procedures, use of the premises, locations for staging area(s) and jobsite trailers, security, housekeeping, submittal and RFI procedures, Project forms and procedures, inspection and testing

procedures, utility shutdown procedures, control and reference point procedures, injury and illness prevention program, Contractor's schedule of values, Contractor's schedule of submittals, and such other matters that the City deems necessary to address before the Work begins.

(2) *Progress Meetings.* During the course of the Project, progress meetings will be conducted on a weekly basis by the City and at Contractor's on-site office, unless otherwise specified. Progress meeting agenda items may include review of past meeting minutes, review of Work in progress since previous progress meeting, schedule status and updates, status of submittals or change orders, worker safety, and other such matters pertaining to the progress of the Work.

(G) ***Responsible Party.*** Contractor is solely responsible to City for the acts or omissions of any Subcontractor(s), 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 City's written request, Contractor must promptly and permanently remove from the Project, at no cost to City, 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.

(H) ***Correction of Defects.*** Contractor must promptly correct, at Contractor's sole expense, any Work that is determined by City to be deficient or defective in any way, including workmanship, materials, parts or equipment. Workmanship, materials or equipment that do not conform to the requirements under the Drawings, Specifications and every other Contract Document, as determined by City, 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 City, and any Extra Work performed without City's prior written approval. However, City retains the right, but not the obligation, to retain defective Work, and deduct the difference in value, as determined by the Engineer, from payments otherwise due to Contractor.

(I) ***Contractor's Records.*** Contractor must maintain all of its records relating to the Project in any form, including paper documents, photos, videos and electronic records. Project records subject to this provision include, but are not limited to, Project cost records and records relating to preparation of Contractor's bid.

(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 records in an organized manner for a period of four years after City's acceptance of the Project or following Contract termination, whichever occurs first. Subject to prior notice to Contractor, City is entitled to inspect or audit any of Contractor's Project records relating to the Project or to investigate Contractor's plant or equipment during Contractor's normal business hours.

(J) **Copies of Contract Documents.** Contractor and its Subcontractors must keep copies, at the Project site, of the Work-related documents, including the Contract, permit(s), Drawings, Specifications, Addenda, Contract amendments, Change Orders, RFIs and RFI responses, Shop Drawings, and any related written interpretations. The Contract Documents, as-built drawings, and all Worksite copies must be available to City for reference at all times.

2.3 Subcontractors.

(A) **General.** All Work which is not performed by Contractor with its own forces must be performed by Subcontractors. City reserves the right to approve or reject any and all Subcontractors proposed to perform the Work.

(B) **Contractual Obligations.** Contractor must require every Subcontractor to be bound to the provisions of the Contract Documents as they apply to the Subcontractor's portion(s) of the Work, and to likewise bind their subcontractors or suppliers. Nothing in these Contract Documents creates a contractual relationship between a Subcontractor and City, but City 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 City, subject to the prior rights of any surety, provided that City accepts 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 section 4107, Contractor is solely responsible for all costs City incurs in responding to the request, including legal fees and costs to conduct a hearing.

2.4 Coordination of Work.

(A) **Concurrent Work.** City reserves the right to perform or to have performed other work on or adjacent to the Project site while the Work is being performed. 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 and subcontractors. To the full extent permitted by law, Contractor must hold harmless and indemnify City 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) **Defects.** 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 such known 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.

2.5 Submittals.

Unless otherwise specified, Contractor must submit to the Engineer for review and acceptance of 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 in the Special Conditions or elsewhere in the Contract Documents.

Unless otherwise specified, all submittals should be transmitted electronically using standard commercial software programs.

(A) **General.** Contractor is responsible for ensuring that its submittals are complete, legible, accurate and conform to the Contract Documents. Incomplete or illegible submittals will be rejected and returned for resubmission. Contractor must use the applicable forms provided or specified for use by the City, including the Project Forms provided with the Contract Documents, and forms provided by City at the pre-construction conference.

(B) **Time and Manner of Submission.** Contractor must ensure that its submittals are prepared and delivered in a manner consistent with the current City-accepted schedule for the Work and within the applicable time specified elsewhere 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. If a submittal remains non-compliant after being re-submitted for a second time, City may back-charge Contractor for all further review time and additional administrative costs. For City employees the hourly amount charged will be 2.5 times the employee's direct hourly payroll cost to the City. For consultants, the amount charged will be 1.25 times the amount billed to the City for additional review and administrative time.

(E) **Effect of Review and Acceptance.** Review and acceptance of a submittal by City 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 City is not an assumption of risk or liability by City.

(F) **Enforcement.** Any Work performed or any material furnished, installed, fabricated or used without City'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 City, including costs for the Design Professional, Project Manager, or Inspector.

(G) **Excessive RFIs.** A Request for Information (RFI) will be considered excessive or unnecessary if City determines that the explanation or response to the RFI is clearly and unambiguously discernable in the Contract Documents. City's costs to review and respond to excessive or unnecessary RFIs may be deducted from payments otherwise due to Contractor, on the same basis as excessive submittal review, under subsection (D) (Required Corrections).

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 City, Shop Drawings must be provided to the Engineer for review and acceptance at least 30 days before the Work will be performed. If City 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 City. Contractor is responsible for any errors and 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 City does not relieve Contractor of such responsibility.

Article 3 - Contract Documents

3.1 Interpretation of Contract Documents.

(A) ***Drawings and Specifications.*** The Drawings 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 Drawings 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 Drawings and Specifications, the Specifications will control. Detailed Drawings take precedence over general Drawings, and large scale Drawings take precedence over smaller scale Drawings.

(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 under the Drawings or Specifications, Contractor must immediately submit a Request for Information to the Engineer and wait for a response from City before proceeding further with the related Work. The RFI must notify City 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 City's response, Contractor will be responsible for any resulting costs, including the cost of correcting any incorrect or defective Work that results. City will not extend the Contract Time due to Contractor's failure to submit a timely RFI to the Engineer.

(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 at the Worksite before ordering any material or performing any Work, and will be responsible for the correctness of those measurements.

(F) ***Limitations.*** Any arrangement or division of the Drawings and Specifications into sections is for convenience and is not intended to limit the Work required by separate trades. A conclusion presented in the Drawings 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 City's possession that is necessary for Contractor to form its own conclusions.

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:

- (A) Change Orders;
- (B) Addenda;
- (C) Contract;
- (D) Notice to Proceed;
- (E) Notice of Award;
- (F) Special Conditions;
- (G) General Conditions;
- (H) Payment, Performance and Warranty Bonds;
- (I) Specifications;
- (J) Drawings;
- (K) Contractor's Bid Proposal and attachments;
- (L) Notice Inviting Bids;
- (M) Instructions to Bidders;
- (N) the City of Cupertino's Standard Details; and
- (O) Any 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 City, 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 City 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 City.

3.4 For Reference Only. Contractor is responsible for the careful review of any document, study, or report provided by City 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 City 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 City, any reference to standard specifications, technical specifications, or any City or state codes or regulations means the latest specification, code or regulation in effect at the time the Contract is signed.
- 3.6 Conformed Copies.** If City prepares a conformed set of the Contract Documents following award of the Contract, it will provide Contractor with a 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.

Article 4 - Bonds, Indemnity, and Insurance

4.1 Payment and Performance Bonds. Within ten days following issuance of the notice of 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, using the bond forms included with the Contract Documents.

(A) **Surety.** Each bond must be issued by a surety admitted in California, and the surety must have a financial rating from A.M. Best Company of B+, class 7 or better, or as otherwise acceptable to the City. If an issuing surety cancels the bond or becomes insolvent, within seven days following written notice from City, Contractor must substitute a surety acceptable to City. If Contractor fails to substitute an acceptable surety within the specified time, City may, at its sole discretion, withhold payment from Contractor until the surety is replaced to City'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 City 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 City, 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, 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. City will timely notify Contractor upon receipt of any third-party claim relating to the Contract, as required by

Public Contract Code section 9201. Contractor's indemnity obligations under this Contract will survive the expiration or any early termination of the Contract.

4.3 Insurance.

(A) **Policies and Limits.** Within ten days following issuance of the Notice of Award, Contractor must provide City with satisfactory proof, using the specified insurance forms, that Contractor has procured insurance policies for the following classes of insurance in the form and with limits and deductibles specified below:

(1) *Comprehensive General Liability Insurance* covering claims for personal injury, bodily injury and property damage arising out of the Work and in a form providing coverage not less than that of a standard commercial general liability insurance policy ("occurrence form"). Such insurance must provide for all operations and include independent contractors, products liability, completed operations for one year after City accepts the Project. The limits of such insurance must be at least \$2,000,000 each occurrence, \$4,000,000 general aggregate limit. The policies must be endorsed to provide broad form property damage coverage. 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 herein.

(2) *Comprehensive Automobile Liability Insurance* covering all owned, non-owned, and hired vehicles. Such insurance must provide coverage not less than the standard comprehensive automobile liability policy with limits not less than \$1,000,000 each person bodily injury, \$1,000,000 each occurrence bodily injury, and \$1,000,000 each occurrence property damage.

(3) *All-Risk Course of Construction Insurance* (Builder's Risk) for physical loss or damage to the Work, temporary buildings, falsework, and materials and equipment in transit, and must insure against at least the following perils or causes of loss: fire, lightning, extended coverage, theft, vandalism and malicious mischief, earthquake, collapse, debris removal, demolition occasioned by enforcement of Laws, water damage, flood, and damage caused by frost and freezing, in the amount of 100 percent of the completed value of the Work to be performed under this Contract. Deductible must not exceed \$25,000. Each loss must be borne by Contractor.

(4) *Workers' Compensation Insurance* for all persons whom the Contractor may employ in carrying out Work contemplated under Contract Documents, in accordance with the Act of Legislature of State of California, known as "Workers' Compensation Insurance and Safety Act," approved May 26, 1913, and all acts amendatory or supplemental thereto, in the statutory amount, \$1,000,000 each occurrence.

(B) **General.** All policies of insurance must be placed with insurers acceptable to City. The insurance underwriter(s) must have an A. M. Best Company Financial Strength rating of A or better and Financial Size rating of VII or higher, or otherwise acceptable to the City. Required minimum amounts of insurance may be increased should conditions of Work, in opinion of City, warrant such increase. Contractor must increase required insurance amounts upon direction by City.

(C) **Required Endorsements.** The policies required under subsections (A)(1)-(3), above, must be endorsed as follows, using the forms specified:

(1) Name the City of Cupertino, a municipal corporation of the State of California, its City Council, and their employees, representatives, consultants (including without limitation Design Professional), and agents, as additional insureds, but only with respect to liability arising out of the activities of the named insured.

(2) Each such policy must apply separately to each insured against whom claim is made or suit is brought, except with respect to the limit of the insurance company's liability required under subsections (A)(1)-(3), above. (Endorsement of aggregate limits of insurance per project)

(3) Insurance must be primary and no other insurance or self-insured retention carried or held by City must be called upon to contribute to a loss covered by insurance for the named insured.

(4) Insurance must contain a provision requiring the insurance carriers to waive their rights of subrogation against City and all additional insureds, as well as other insurance carriers for the Work.

(D) **Documentation.** Proof of insurance and endorsements must be provided using the form titled "*Certificate of Insurance to the City of Cupertino*" and completing the endorsement forms provided with the Contract Documents. Written notice of cancellation, non-renewal, or reduction in coverage of any policy must be mailed to City pursuant to Section 11 of the Contract (Notice), address to the attention of: Contract Administration/Inspection, 30 days in advance of the effective date of the cancellation, non-renewal, or reduction in coverage. 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 City's acceptance of the Project. Contractor must keep insurance in force during warranty and guarantee periods, except that Contractor may discontinue All-Risk Course of Construction Insurance (Builder's Risk) after Final Payment. At the time of making application for extension of time, and during all periods exceeding the Contract Time resulting from any cause, Contractor must submit evidence that insurance policies will be in effect during requested additional period of time. Upon City's request, Contractor must submit to City, within 30 Days, copies of the actual insurance policies or renewals or replacements.

(E) **Payment of Premiums.** Contractor must pay all insurance premiums, including any charges for required waivers of subrogation or the endorsement of additional insureds. If Contractor fails to maintain insurance, City may take out comparable insurance, and deduct and retain amount of premium from any sums due Contractor under Contract Documents.

(F) **Workers' Compensation.** If injury occurs to any employee of Contractor, Subcontractor or sub-subcontractor for which the employee, or the employee's dependents in the event of employee's death, is entitled to compensation from City under provisions of the Workers' Compensation Insurance and Safety Act, as amended, or for which compensation is claimed from City, City may retain out of sums due Contractor under Contract Documents, amount sufficient to cover such compensation, as fixed by the Act, as amended, until such compensation is paid, or until it is determined that no compensation is due. If City is compelled to pay compensation, City may, in its

discretion, either deduct and retain from the Contract Price the amount so paid, or require Contractor to reimburse City.

(G) **No Limitation of Liability.** Nothing in this Section 4.3 must be construed as limiting in any way the extent to which Contractor or any Subcontractor may be held responsible for payment of damages resulting from their operations.

(H) **Subcontractors.** All Subcontractors must maintain the same insurance required to be maintained by Contractor with respect to their portions of the Work, except that Subcontractors need to obtain coverage of not less than \$2,000,000 each occurrence, \$4,000,000 general aggregate limit of comprehensive general liability insurance. Contractor must require each Subcontractor to furnish proof thereof to City within ten days of City's request.

(I) **Professional Liability.** The following provisions apply to any licensed professional engaged by Contractor to perform portions of the Work ("Professional").

(1) Each Professional must maintain the following insurance at its sole cost and expense:

(a) Provided such insurance is customarily required by City when professionals engaged in the profession practiced by Professional contract directly with City, professional liability insurance, insuring against professional errors and omissions arising from Professional's work on the Project, in an amount not less than \$1,000,000 combined single limit for each occurrence. If Professional cannot provide an occurrence policy, Professional must provide insurance covering claims made as a result of performance of Work on this Project and must maintain such insurance in effect for not less than two years following Final Completion of the Project.

(b) All insurance required by subsections (A)(1)-(2) & (4), above. Professional must satisfy all other provisions of subsections (A)-(F) of this Section 4.3 relating to that insurance, including without limitation providing required insurance certificates (containing the required endorsements) before commencing its Work on the Project.

(J) **Pollution Insurance.** If required by City, Contractor must obtain and maintain contractor's pollution legal liability insurance in a form, with limits, and from an insuring entity reasonably satisfactory to City.

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) **Notice to Proceed.** 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. The Notice to Proceed will not be issued until Contractor has executed and returned the Contract, the required bonds, insurance certificates and endorsements and any other submittals required prior to issuance of the Notice to Proceed, subject to City's approval of all such

documents. Contractor may not begin performing Work on the Project Site before the date authorized in the Notice to Proceed. After receiving the Notice to Proceed, Contractor must notify the City in writing of the date Contractor intends to begin Work on the Project, at least 24 hours in advance of beginning the Work. 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 that must be provided or performed before issuance of the Notice to Proceed.

(B) **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 City determines that Contractor is failing to prosecute the Work at a sufficient rate of progress, City 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 City, in order to achieve a rate of progress satisfactory to City. If Contractor fails to comply with City's directive in this regard, City may, at Contractor's expense, separately contract for additional workers, materials, or equipment or use City's own forces to achieve the necessary rate of progress. Alternatively, City may terminate the Contract based on Contractor's default.

5.2 Schedule Requirements. Contractor must prepare all schedules using standard 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 City's issuance of the Notice to Proceed (or as otherwise specified in the Special Conditions), Contractor must submit to City 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 City, 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 orders date(s).

(B) **City's Review of Schedules.** City 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 must, within seven days, correct the schedule to address them.

(C) **Progress Schedules.** After City 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 City, for review and acceptance with each application for a progress payment, or when otherwise specified by City, 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 City 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 City has noted exceptions that are not corrected, City may withhold up to ten percent from payment(s) otherwise due to Contractor until the exceptions are resolved, the schedule is corrected and resubmitted, and City has accepted the schedule. In addition, Contractor's failure to comply with the schedule requirements in this Section 5.2 will be deemed a waiver of any claims for Excusable Delay or loss of productivity arising when Contractor is out of compliance, subject only to the limits of Public Contract Code section 7102.

(D) **Recovery Schedule.** If City 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 City-accepted schedule unless otherwise directed by City. City'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 City'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 maintain a copy of the most current City-accepted progress or recovery schedule posted prominently in its on-site office.

(G) **Reservation of Rights.** City 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 City or others, or to facilitate City'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 City's normal business hours, except as provided in the Special Conditions or as authorized in writing by City. City reserves the right to charge Contractor for additional costs incurred by City 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 City 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. 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.

(C) **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 timely completion of the Work;
- (3) Contractor's failure to provide adequate notification to utility companies or agencies for connections or services necessary for the timely performance and completion of the Work;
- (4) foreseeable conditions which Contractor could have ascertained from reasonably diligent inspection of the Worksite or review of the Contract Documents or other information provided or available to Contractor; or
- (5) Contractor's financial inability to perform the Work, including insufficient funds to pay its Subcontractors or suppliers.

(D) **Compensable Delay.** Pursuant to Public Contract Code section 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 City, when that delay is unreasonable under the circumstances involved and not within the contemplation of the parties ("Compensable Delay").

(E) **Concurrent Delay.** Contractor is not entitled to an extension of Contract Time or recovery of costs for any Compensable Delay that is concurrent with Non-Excusable Delay.

(F) **Weather Delay.** 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 Worksite 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, City-approved schedule.

(1) Based on historic records for the Project location from the Western Regional Climate Center, Contractor's schedule should assume the following number of normal Weather Delay Days and precipitation for each month:

Month	# Normal Weather Delay Days	Precipitation
January	6	2.86
February	6	2.66
March	6	2.29
April	3	1.20
May	1	0.44
June	0	0.10
July	0	0.02
August	0	0.07
September	1	0.19
October	2	0.76
November	4	1.51
December	5	2.43
Total	34	14.53

(2) 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 set forth in Section 5.3(F)(1) above, subject to the following limitations:

- a. Contractor must fully comply with the applicable procedures in Article 5 and 6 of these General Conditions regarding requests to modify the Contract Time.
- b. Normal Weather Delay Days which do not occur during a given month do not carry over to another month.
- c. 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.

(G) **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 City. Recoverable Costs will not include home office overhead or lost profit.

(H) **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 City within ten 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 City.

(4) *Burden of Proof.* Contractor has the burden of proving that: the delay was an Excusable or Compensable Delay, as defined above; 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 section 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 City'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 working 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 City'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, City will suffer damages from the delay that are difficult to determine and accurately specify. Pursuant to Public Contract Code section 7203, if Contractor fails to achieve Final Completion within the Contract Time, City will charge Contractor in the amount specified in the Contract for each day that Final Completion is delayed beyond the Contract Time, as liquidated damages and not as a penalty.

(A) **Liquidated Damages.** Liquidated damages will not be assessed for any Excusable 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.** City is entitled to deduct the amount of liquidated damages assessed against any payments otherwise due to Contractor, including unreleased retention. If there are insufficient Contract funds remaining to cover the full amount of liquidated damages assessed, City 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 City's acceptance of the Project and will not operate as a waiver of City's right to assess liquidated damages for Contractor's Non-Excusable Delay in achieving Final Completion.

(E) **Other Remedies.** City'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. City retains its right to pursue all other remedies under the Contract for other types of damage, including damage to property or persons, or for defective materials or workmanship.

Article 6 - Contract Modification

6.1 Contract Modification and Changes in Work. Modifications to the Contract are valid and legally binding only pursuant to a written, duly authorized and signed Change Order. City also reserves the right to make changes in the Work without invalidating the Contract. City may direct changes in the Work, which may include Extra Work as set forth in subsection (B) below, deletion or modification of portions of the Work, or other modifications determined by City, acting in its sole discretion, to be in City's best interest. Pursuant to section 3.23.170 of the Cupertino Municipal Code, City reserves the right to delete up to 25% of the Work. Any change in the Work, whether directed by City or pursuant to Contractor's request for a Change Order under Section 6.2 below, will not be a valid and binding change to the Contract unless it is formalized in a Change Order, which may include commensurate changes in the Contract Price or Contract Time as applicable. Contractor must promptly comply with City-directed changes in the Work in accordance with the original Contract Documents, even if Contractor and City 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 pursuant to Public Contract Code section 7101 based on cost reduction changes or "value engineering," unless otherwise specified in the Special Conditions, or unless expressly authorizing in advance in writing by City.

(A) **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 City-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. In the event that City 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 City. 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.

(B) **Extra Work.** City may direct Contractor to perform Extra Work related to the Project. Contractor must promptly perform any Extra Work as directed or authorized by City in accordance with the original Contract Documents, even if Contractor and City have not yet reached agreement on adjustments to the Contract Price or Contract Time for such Extra Work. 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 such Work. When an Extra Work Report(s) is agreed on and signed by both City 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.

(C) **Remedy for Non-Compliance.** Contractor's failure to promptly comply with a City-directed change is deemed a material breach of the Contract, and in addition to all other remedies available to it, City 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 ten 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 City requests that Contractor propose the terms of a Change Order, unless otherwise specified in City'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 City'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, and 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.

(D) **Required Form.** Contractor must use City's form(s) for submitting all Change Order requests or proposals, unless otherwise specified by City.

(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 costs, expenses, or time extension request not included herein is deemed waived. Contractor understands that submission of claims which have no basis in fact or which Contractor knows to be false may violate the False Claims Act, as set forth in Government Code sections 12650 et seq."

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, but in the order provided with unit pricing taking precedence over the other methods:

(A) **Unit Pricing.** Amounts previously provided by Contractor in the form of unit prices, either in a bid schedule or schedule of values, will apply if unit pricing has previously been provided in Contractor's accepted bid schedule or schedule of values for the affected Work. No additional markup for overhead, profit, or other indirect costs will be added to the calculation.

(B) **Lump Sum.** A mutually agreed upon lump sum 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, including allowed markup for overhead, profit, and all other indirect costs, and which may include a not-to-exceed limit, calculated as the total of the following sums:

- (1) All direct labor costs plus 15% markup;
- (2) All direct material costs, including sales tax, plus 15% markup;
- (3) All direct plant and equipment rental costs, plus 15% markup;
- (4) All direct subcontract costs plus ten percent markup; 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, dispute over the value of deleted or changed Work, disputes as to what constitutes Extra Work, or disputes as to quantities used, City may elect to issue a unilateral Change Order, directing performance of the Work, and authorizing a change in the Contract Price or Contract Time up to the amount City 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 and Taxes.

(A) **General.** Contractor must obtain and pay for all permits, fees, or licenses required to perform the Work, except that if a City building permit is required, no fee will be charged. Contractor must cooperate with and provide notifications to all government agencies with jurisdiction over the Project, as may be required. Contractor must provide City with copies of all notices, permits, licenses, and renewals required for the Work.

(B) **Federal Excise Tax.** Contractor must pay for all taxes on labor, material and equipment, except Federal Excise Tax to the extent that City 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 material 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 utility services incidental thereto. The location of all temporary facilities must be approved by the City prior to installation.

(A) **Standards.** Temporary facilities must be safe and adequate for the intended use, and installed and maintained in accordance with all applicable federal, state, and local laws, codes, and regulations.

(B) **Screening.** Contractor must fence and screen the Project site and staging area, and its operation must minimize inconvenience to neighboring properties and be approved by the City.

(C) **Utilities.** Contractor must install and maintain the light, power, water and all other utilities required for the Project site, including the piping, wiring, lamps and related equipment necessary to perform the Work.

(D) **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 City'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.

(E) **Additional Requirements.** Additional provisions pertaining to temporary facilities may be included in the Specifications or Special Conditions.

7.3 Noninterference and Additional Work Areas. Contractor must avoid interfering with City'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 notify the affected parties 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 City, Contractor must acquire, use and dispose of, at its sole expense, any additional Work areas, 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 City 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 City harmless from any related liability, in a form acceptable to the City Attorney.

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

7.5 Worksite 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 notice of completion has been recorded. Except as specifically authorized by City, Contractor must confine its operations to the area of the Project site indicated in the Drawings. Contractor is liable for any damage caused by Contractor or its Subcontractors to the Work, City's property, the property of adjacent or nearby property owners (including real property, improvements and utilities and personal property, and the work or personal property of other contractors working for City. In addition, Contractor is responsible for damage caused by its failure to adequately secure the Work or any Worksite.

(1) Subject to City's approval, Contractor will provide and install safeguards to protect the Work, the Project site, City's real or personal property, and the real or personal property of adjacent or nearby property owners.

(2) Cupertino Sanitary District and the City of Sunnyvale own and operate wastewater systems within Cupertino and they may not be interrupted. If the Work disrupts existing sewer facilities, Contractor must immediately notify City to determine who owns the system and establish a plan, subject to the systems owner'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 City's request, any objects or material from the Project site that City will salvage or reuse at another location(s).

(4) If directed by Engineer, Contractor must promptly repair or replace any such property damage, as specified by the Engineer. However, acting in its sole discretion, City 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.

(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 City 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 City.

(C) **Unforeseen Conditions.** If Contractor encounters facilities, utilities, or other unknown conditions not shown on or reasonably inferable from the Drawings or apparent from inspection of the Project site, Contractor must immediately notify the City and promptly submit a Request for Information to 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 City's property and adjacent properties and improvements thereon. Contractor must provide notifications to adjacent property owners as may be required by law.

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, and 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 City has formally accepted the Project as set forth in Section 11.1 below. 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) **City-Provided.** If the Work includes installation of materials or equipment to be provided by City, Contractor is solely responsible for the proper examination, handling, storage, and installation of such items in accordance with the Contract Documents. Contractor must promptly notify City of any defects discovered in City-provided materials or equipment. 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) **Existing City Equipment.** Contractor will carefully remove all existing equipment from the Worksite. If the City specifies or indicates that equipment is to be salvaged and reused or to remain the property of City then the Contractor will reuse or return the equipment to the City. Contractor will store and protect salvaged equipment specified to be reused in the Work. Contractor will delivery to the City in good condition the equipment that is to remain City property but not be reused in the Work.

(1) If an item specified to be salvaged is damaged during its removal, storage, or handling through carelessness or improper procedures, then Contractor will replace that equipment in kind or with a new item. For those items specified to be salvaged Contractor may choose to instead furnish and install new equipment, in which case the original, removed items will become Contractor's property. Existing materials and equipment removed by Contractor will only be reused in the Work if so specified or indicated by the City.

(D) **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 applies to any claimed violation of intellectual property rights in violation of this provision.

(E) **Certificate of Compliance.** When a Certificate of Compliance is specified, or for any material or item ("material") produced or assembled outside of the United States, Contractor must submit a Certificate of Compliance before incorporating that material into the Project. A Certificate of Compliance must be submitted for each lot of material delivered to the Project site, and in a form acceptable to the Engineer, identifying the material, its source, and the lot. Each Certificate of Compliance must be signed by the material producer stating that the material fully complies with the applicable requirements of the Specifications. Submission of a Certificate of Compliance will not limit Contractor's continuing obligation to use only materials that conform with the requirements of the Contract Documents. Any materials furnished pursuant to a Certificate of Compliance may be inspected or tested at any time by City, subject to the inspection and testing provisions of Article 7, and defective or non-conforming material may be rejected at any time, even if already installed.

(F) **Site Materials.** Except as otherwise specified, City retains full ownership of and all rights to use any water, soil, stone, gravel, sand, minerals or other materials ("Site Materials") on City property, including the Project site, and including any site materials that have been extracted, excavated, or otherwise affected or made accessible by performance of the Work. However, City, acting in its sole discretion, may provide written authorization in the Specifications or in a Change Order for Contractor to make use of or incorporate specified Site Materials in the Work.

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.

(B) **Request for Substitution.** A 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. The request must be submitted on the City's Substitution Request Form.

(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, including testing using methods acceptable to City. City has sole discretion to determine whether a proposed substitution is equal, and City'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 City.

(F) **Contractor's Obligations.** City'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 Inspection and Testing.

(A) **General.** All materials, equipment, and workmanship used in the Work are subject to inspection and testing by City at all times and locations during construction and/or fabrication and at any Work site, including at shops and yards as well as at the Project site, or at the plant of a manufacturer of materials or items to be incorporated into the Work. 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 inspection.

(B) **Scheduling and Notification.** Contractor must cooperate with City in coordinating the inspections and testing. Contractor must submit samples of materials, 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 in writing no later than two Working Days before any inspection or testing is being requested, 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 City holiday, Contractor must seek, in writing, Engineer's approval at least two Working Days in advance. If approved, Contractor must reimburse City for the cost of the overtime inspection or testing. Such costs, including the City's hourly costs for required personnel and Inspector, may be deducted from payments otherwise due to Contractor.

(C) **Responsibility for Costs.** City will bear the initial cost of inspection and testing to be performed by independent inspections and/or testing consultants retained by City, subject to the following exceptions:

(1) Contractor will be responsible for the costs of any subsequent inspections and/or tests which are required to substantiate compliance with the Contract Documents, and any associated remediation costs.

(2) Contractor will be responsible for inspection and testing costs, at the rate charged by the consultant retained by the City to provide inspection and testing services, and for inspection and testing 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.** All Work and materials must conform with the lines, grades, typical cross sections, dimensions, material requirements, and tolerances shown or described by the Drawings and Specifications. City, acting in its sole discretion, will determine whether Work or materials conform with the Drawings and Specifications, including allowable deviations. City's determination as to conformity or allowable deviations is final. Contractor is solely responsible for any delay occasioned by remediation of defective or noncompliant Work or material. Inspection of the Work does not in any way relieve Contractor of its obligations to perform the Work as specified. Any Work done without the required inspection(s) will also be subject to rejection by City.

(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) **Plant Inspection.** If specified in the Contract Documents, or upon written request by City, Contractor must use its best efforts to facilitate and arrange for City's inspection, sampling or testing of materials or items required for the Work at the plant or facility from which the materials or items are to be obtained. Contractor's best efforts must include contacting the producer or manufacturer on a timely basis to schedule inspection by City's selected representative, including appropriate access and any safety equipment, all at no cost to City. The inspection must be scheduled sufficiently in advance of the planned shipping or production date to allow for alternative arrangements if the City determined that the materials or items do not meet the requirements of the Drawings and Specifications. Nothing in this provision obligates City to inspect materials or items at the source plant or facility.

(G) **Final Inspection.** The provisions of this Section 7.8 apply to final inspection under Article 11, Completion and Warranty Provisions.

7.9 Worksite 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 and neat condition and in compliance with all regulatory requirements for air quality and dust control. 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. Project site maintenance expenses are deemed to have been included in Contractor's Bid Proposal.

(A) **Protection of Existing Property, Structures, and Utilities.** If the Drawings indicate existing above-grade and below-grade structures, drainage lines, storm drains, sewers, water, gas, electrical, phone and data cable, and other similar items or utilities known to the City, then Contractor will locate these known existing installations before proceeding with trenching or other operations which may cause damage, will maintain them in service where appropriate, and will repair any damage caused to them by the Work, at no increase in the Contract Price.

(1) The Contractor may temporarily mark or paint the ground, pavement, sidewalk, or any other improvements, but must not do so in a public right-of-way or on the Site more than 30 days prior to the commencement of excavation work performed in connection with an installation. Any mark or paint must be removed from all surfaces, including any decorative work, within 30 days of the completion of the excavation work. The Contractor is responsible for any expense associated with damages caused by the Contractor's mark or paint, including the removal thereof.

(2) The Contractor will record the location and existence of pavement markers and striping prior to construction, and will provide such records to the Engineer. The Contractor will replace in kind any permanent paving marker or striping that it removes or damages, or as marked in the Plans, at its expense.

(B) **Air Emissions Control.** Contractor must not discharge smoke or other air contaminants into the atmosphere in violation of any applicable law, regulation or rule.

(C) **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 the Engineer determines that the dust control is not adequate, City 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 Worksite and any dirt deposited on public streets.

(D) **Clean up.** Before discontinuing Work in an area, Contractor must clean the area and remove all rubbish and debris along with the construction equipment, tools, machinery, waste 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 City, will be Contractor's property.

(2) Hauling trucks and other vehicles leaving the Project site must be cleaned of exterior mud or dirt before traveling on City streets. Materials and loose debris must be delivered and loaded to prevent dropping materials or debris. Contractor must immediately remove spillage from hauling on any publicly traveled way. Streets affected by Work on the Project must be kept clean by street sweeping.

(E) **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 City's storm drain system.

(F) **Completion.** At the completion of the Work, Contractor must remove from the Worksite all of its equipment, tools, surplus materials, waste materials and debris, presenting a clean and neat appearance. Before demobilizing from the Worksite, 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, 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.

(G) **Non-Compliance.** If Contractor fails to comply with its maintenance and cleanup obligations or any City clean up order, City 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 the cost will be deducted from any amounts due or to become due to Contractor.

7.10 Instructions and Manuals. Contractor must provide to City two bound copies and an electronic PDF copy of 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 City 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 City at least ten days prior to the first such application. The instructions and manuals, along with any required guarantees, must be delivered to City for review.

(B) **Training.** Contractor or its Subcontractors must instruct City's personnel in the operation and maintenance of any complex equipment 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 Drawings which will be used solely for the purpose of recording changes made in any portion of the original Drawings 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. Progress payments may be delayed, in whole or in part, until the as-built drawings are brought up to date to the satisfaction of City. 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 Drawings 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 approval as a condition precedent to Final Completion and Final Payment.

7.12 Existing Utilities. As required by Government Code section 4215, if, during the performance of the Work, Contractor discovers utility facilities not identified by City in the Contract Documents, Contractor must immediately provide written notice to City and the utility. City 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 such

utility facilities not indicated in the Drawings 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 such delay was caused by City's failure to provide for removal or relocation of the utility facilities.

7.13 Notice of Excavation. Contractor must comply with all applicable operator requirements in Government Code sections 4216 through 4216.5. Government Code section 4216.2 requires that, except in an emergency, Contractor must contact the appropriate regional notification center, or Underground Services Alert, at least two working days but not more than 14 calendar days before starting any excavation if the excavation will be conducted in an area that is known, or reasonably should be known, to contain subsurface installations, and, if practical, Contractor must delineate with white paint or other suitable markings the area to be excavated. Contractor may not begin excavation until it has obtained and submitted to Engineer an inquiry identification number from Underground Services Alert.

7.14 Trenching and Excavations of Four Feet or More. As required by Public Contract Code section 7104, if the Work includes digging trenches or other excavations that extend deeper than four feet below the surface, the following 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 City if Contractor finds any of the following conditions:

(1) Material that Contractor believes may be a hazardous waste, as defined in section 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 law;

(2) Subsurface or latent physical conditions at the Worksite differing from those indicated by information about the Worksite made available to bidders prior to the deadline for submitting bids; or

(3) Unknown physical conditions at the Worksite 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) **City Investigation.** City will promptly investigate the conditions and if City finds that the conditions do materially differ or do 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, City will issue a Change Order.

(C) **Disputes.** In the event that a dispute arises between City and Contractor regarding any of the conditions specified in subsection (A) above, 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 law which pertain to the resolution of disputes between Contractor and City.

7.15 Trenching of Five Feet or More. As required by Labor Code section 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 City 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. City will pay connection charges and meter costs for new permanent utilities required by the Contract Documents, if any. Contractor must notify City 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.

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 City. If required by City, 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. Any suspension of Work required due to discovery of Historic or Archeological Items will be treated as a suspension for convenience under Article 13.

7.19 Recycling and Waste Disposal.

(A) **Approved Recycling Facility.** Contractor must dispose of all recyclable materials at a recycling facility approved by the Engineer.

(B) **Inert Solids and Plant Materials.** Contractor must remove all asphalt concrete, Portland cement concrete, aggregate base material, inert solids and any plant material from the Project site and deposit at an approved recycling facility. Contractor must conform the above material to an acceptable size and composition for recycling.

(C) **Recyclable Materials.** Contractor must recycle at least 65% of all materials at an approved recycling facility.

(D) **Waste Management Plan and Disposal Report.** If the California Green Building Standards Code applies to the Project, Contractor must submit to the City a waste management plan prior to starting work. A disposal report is required upon completion of the Project, for materials that are hauled by Contractor or by the City's franchised hauler. If a waste management plan is required it must be available

throughout the duration of the Project for examination by the City. Electronic submittals are acceptable. The waste management plan must include the following:

- (1) Project title and number;
- (2) Identify the construction methods that will be employed to reduce waste;
- (3) Type of material(s) to be recycled, salvaged or landfilled;
- (4) Specify if the waste will be sorted onsite or bulk-mixed; and
- (5) Name and address of recycling facilit(ies) and landfill(s) to be used;

The disposal report must include the following:

- (1) Project title;
- (2) Date and time of disposal;
- (3) Truck number;
- (4) Type of material recycled, salvaged, or landfilled;
- (5) Weight of material recycled, salvaged, or landfilled;
- (6) Name and address of recycling facility or landfill;
- (7) Certification or weight tags from facility;
- (8) Weight tags for all material landfilled; and
- (9) If the recycling goal is not met, provide an explanation, to be approved by City, for why it was not met.

(E) **Collection of Waste and Debris.** Collection of garbage, mixed non-organic recyclables, organic waste, and any construction or demolition materials in debris boxes, compactors, or bin-by-the-day services that are not City franchisees or otherwise agents of the City is prohibited. Notwithstanding the above, Contractor must dispose of debris from the Project in one of the following:

- (1) Franchised hauler bin;
- (2) A bin owned by Contractor or a demolition Subcontractor provided that it is hauled by an employee of the Contractor or the demolition Subcontractor and by a vehicle owned and registered to the Contractor or the demolition Subcontractor; or
- (3) Private truck with a bed.

(F) **Recycling Containers.** The disposal of garbage in containers designated for compostable waste recycling is prohibited.

7.20 Storm Water Pollution Control

(A) **Storm Drains.** Contractor will comply with all state and federal storm water regulations. Contractor will not allow any waste materials or pollutants to enter the storm drainage system.

(B) **Best Management Practices.** Contractor must remove any waste found or generated at the Project site using the appropriate Best Management Practices (BMPs), and must properly dispose of the waste or pollutants off-site. If solid or liquid waste materials or pollutants from the Project enter the storm drain system, Contractor must immediately notify the City's Environmental Services Division, and thoroughly clean up the affected catch basins, storm sewer, and storm manholes to the satisfaction of the Engineer. If Contractor fails to meet the requirements of this section, the City may issue a stop-work notice and take necessary action to require Contractor to set up preventive measures or clean up the storm drainage system. Contractor will bear all costs related to the stop-work action and corrective work, and will not be entitled to an extension of the Contract time for any resulting delay.

(C) **Stormwater Permit.** Contractor must control all water pollution pursuant to the Contract Documents, the State Water Resources Control Board National Pollutant Discharge Elimination System ("NPDES") General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities ("Stormwater Permit"). If required for the Work, a copy of the Stormwater Permit is on file in City's principal administrative offices, and Contractor must comply with the same 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 applicable state, municipal or regional laws, ordinances, rules or regulations governing discharge of stormwater, including applicable municipal stormwater management programs.

(D) **Failure to Comply with Stormwater Permit.** Contractor must pay all costs and liabilities imposed by law as a result of Contractor's failure to comply with the provisions set forth in the Contract Documents. Such costs and liabilities include, but are not limited to, fines, penalties, and damages, whether assessed against the City or Contractor, including those levied under the Federal Clean Water Act and the State Porter Cologne Water Quality Act.

(E) **Storm Water Pollution Prevention Plan Preparation.** Contractor must incorporate the following BMPs, as applicable, into a site-specific Storm Water Pollution Prevention Plan (SWPPP) if required for this Project. The SWPPP must be approved by the Engineer prior to construction.

(1) *Non Hazardous Material/Waste Management.*

a. Contractor must designate areas of the Project site suitable for material delivery, storage, and waste collection that, to the maximum extent practicable, are near construction entrances and away from catch basins, gutters, drainage courses, and creeks.

b. Contractor must store granular material at least 10 feet away from catch basin and curb returns.

c. Contractor must prevent granular material to enter the storm drains or creeks.

d. During wet weather and when rain is forecast in the next 24 hours, Contractor must cover granular material with a tarpaulin and

surround the material with sand bags or other weights to ensure that tarpaulin does not expose the material during wind and rain.

e. Contractor will use minimal amounts of water to control dust on a daily basis or as directed by the Engineer.

f. At the end of each working day or as directed by the City, Contractor must clean and sweep roadways and on-site paved areas of all materials on or adjacent to the Worksite.

g. Throughout the working day and at the end of each working day, or as directed by the City, Contractor must pick up litter, trash, scrap, waste material, and debris from the Project site and any adjacent sidewalk, curb, and gutter area. Contractor must keep the site and perimeter free from cigarette butts and other litter.

h. Contractor must ensure that lids for trash receptacles are kept closed and that trash receptacles are maintained in a manner that prevents overflows.

i. Contractor must maintain a clean and litter-free area around all trash receptacles on the site.

j. Contractor will not use water to flush down streets in place of street sweeping or other dry methods of spill cleanup such as applying absorbent, sweeping up material and disposing it in a waste bin.

k. In addition to Contractor's obligation to recycle materials pursuant to Section 7.19 of the General Conditions, Contractor must, to the maximum extent practicable, reuse or recycle any useful construction materials generated during the Project.

l. Contractor must inspect any waste and recycling receptacles for leaks, and must contact the City's trash hauling franchisee to immediately replace or repair any leaking receptacles.

m. Contractor will not discharge water on-site as a result of cleaning recycling or trash receptacles.

n. Contractor must arrange for regular waste collection before receptacles overflow, and must adjust the frequency of service or the receptacle size as needed to ensure that overflows do not occur.

(2) *Hazardous Material/Waste Management.*

a. Contractor must label and store all hazardous materials including but not limited to pesticides, paints, thinners, solvents, and fuels; and all hazardous wastes, including but not limited to waste oil and antifreeze; in accordance with the City's Hazardous Materials Storage Ordinance and all applicable state and federal regulations.

b. Contractor must keep an accurate, up-to-date inventory, including Materials Safety Data Sheets (MSDSs), of hazardous materials and hazardous wastes stored on-site.

c. When rain is forecast within 24 hours or during wet weather, the Contractor must not apply chemicals such as pesticides and cleaners, or any materials that may potentially enter the storm drain system, in outside areas.

d. Contractor must not over-apply pesticides or fertilizers and must follow materials manufacturer's instructions regarding uses, protective equipment, ventilation, flammability, and mixing of chemicals. Over-application of a pesticide constitutes a "label violation" subject to an enforcement action by the Santa Clara County Agriculture Department.

e. Contractor must arrange for regular hazardous waste collection to comply with all applicable time limits on storage of hazardous wastes.

f. Contractor must dispose of hazardous waste only at authorized and permitted treatment, storage and disposal facilities, and must use only licensed hazardous waste haulers to remove the waste off-site, unless quantities to be transported are below applicable threshold limits for transportation specified in state and federal regulations.

g. If Contractor's business office is located in Santa Clara County, Contractor may dispose of this waste through the Countywide Hazardous Waste Program. Businesses generating less than 27 gallons or 220 pounds of hazardous waste per month are legally classified as conditionally exempt small quantity generators (CESQGs). Information on the CESQG program may be requested by calling the County at (408) 299-7300.

(3) *Spill Prevention and Control.*

a. Contractor must keep a stockpile of spill cleanup materials, such as rags or absorbents, readily accessible on-site.

b. Contractor must immediately contain and prevent leaks and spills from entering storm drains, and properly clean up and dispose of the waste and cleanup materials, using dry methods to the extent feasible. If the waste is hazardous, Contractor must handle the waste as described in subsection (2) above.

c. Contractor will not wash any spilled material into streets, gutters, storm drains, or creeks and will not bury spilled hazardous materials.

d. Contractor must report any hazardous materials spill by calling 911 and must notify the City's Public Works Environmental Division at 408-777-3354.

(4) *Vehicle/Equipment Cleaning.*

a. Contractor will not perform vehicle or equipment cleaning on-site or in the street using soaps, solvents, degreasers, steam cleaning equipment, or equivalent methods.

b. Contractor must perform vehicle or equipment cleaning, with water only, in a designated, bermed, pervious area that will not allow rinse water to run offsite or into streets, gutters, storm drains, or creeks.

(5) *Vehicle/Equipment Maintenance and Fueling.*

- a. Contractor will not perform maintenance and fueling of vehicles onsite.
- b. Contractor must perform maintenance and fueling of equipment only when necessary, and in a designated, bermed area or over a drip pan that will not allow run-on of storm water or runoff of spills.
- c. Contractor must use secondary containment, such as a drip pan, to catch leaks or spills any time that equipment fluids are dispensed, changed, or poured.
- d. Contractor must keep a stockpile of spill cleanup materials, such as rags or absorbents, readily accessible on-site to clean up drips and spills.
- e. Contractor must clean up leaks and spills of vehicle or equipment fluids immediately and dispose of the waste and cleanup materials as hazardous waste, as described above.
- f. Contractor will not wash any spilled material into streets, gutters, storm drains, or creeks and shall not bury spilled hazardous materials.
- g. Contractor must report any hazardous materials spill by calling 911. After the emergency has been reported, Contractor must notify the City's Public Works Environmental Division.
- h. Contractor must inspect vehicles and equipment arriving on-site for leaking fluids and shall promptly repair leaking vehicles and equipment. Drip pans must be used to catch leaks until repairs are made. Shut-off valves on equipment must be working properly.
- i. Contractor must comply with federal, state and City requirements for above-ground storage tanks.

(6) *Contractor Training and Awareness.*

- a. Contractor must train all employees and Subcontractors on the SWPPP requirements contained in these General Conditions.
- b. Contractor must include appropriate provisions in its subcontracts to ensure that these SWPPP requirements are met.
- c. Contractor must post warning signs in areas treated with chemicals.
- d. Contractor must paint City-approved stencil or, preferably, apply steel medallions to, any new catch basins with the "No Dumping, Flows to Creek" stencil or medallion markers available from the City's Public Works Environmental Division.

(7) *Activity-Specific Requirements.* The following requirements apply if the Project includes the listed activities.

- a. Dewatering or Pumping Operations.

(i) Contractor must not discharge water to the storm drain system. Water discharges must be directed to a pervious, landscaped, or bioretention area where water will be infiltrated without causing runoff, or routed to the sanitary sewer system after obtaining a permit from Cupertino Sanitary District or Sunnyvale Sanitary, depending on which has jurisdictional authority, or contained using a Baker tank or other means to collect the water for re-use or safe and legal disposal. Contractor may contact the City's Environmental Division for more information on these control measures.

(ii) Contractor must obtain approval of the Engineer for any control measure in advance.

(iii) Contractor must reuse water for other needs, including but not limited to dust control or irrigation, to the maximum extent practicable.

b. Paving Operations.

(i) When rain is forecast within 24 hours or during wet weather, the Engineer may require that paving be delayed for more suitable conditions.

(ii) The Engineer may direct Contractor to protect drainage courses by using control measures, including but not limited to, earth dike, straw bale, and sand bag, to divert runoff or trap and filter sediment. Contractor must refer to California Storm Water Best Management Practice Handbook for these control measures.

(iii) Contractor must place drip pans or absorbent material under paving equipment when not in use.

(iv) Contractor must securely cover catch basins and manholes when paving or applying seal coat, tack coat, slurry seal, or fog seal.

(v) Contractor must remove, clean and reapply or replace catch basin covers as often as needed to ensure protection of the storm drain system from any material other than rain.

(vi) Before Final Completion, Contractor must remove and dispose of all catch basin covers and material trapped by the covers. If Contractor fails to remove and dispose of the covers and materials trapped, City reserves the right to delay final inspection and/or deduct monies from payments due Contractor to compensate the City for its additional costs for removal and disposal of catch basin protection (BMPs).

(vii) If the paving operation includes an on-site mixing plant, Contractor must comply with Santa Clara County General Industrial Activities Storm Water Permit requirements.

(viii) Contractor must preheat, transfer or load hot bituminous material away from drainage systems or watercourses.

(ix) Contractor will not sweep or wash down excess sand (placed as part of a sand seal or to absorb excess oil) into streets, gutters, storm drains, or creeks. Contractor must either collect the sand and return it to the stockpile, or dispose of it in a trash container. Contractor will not use water to wash down fresh asphalt concrete pavement.

c. Saw Cutting.

(i) Contractor must use as little water as possible during saw cutting and grinding operations.

(ii) Contractor must cover or barricade catch basins using control measures, including but not limited to as filter fabric, straw bales, sand bags, and fine gravel dams, to keep slurry out of the storm drain system. When protecting a catch basin, Contractor must ensure that the entire opening is covered. Contractor must refer to California Storm Water Best Management Practice Handbook for these control measures.

(iii) Contractor must remove, clean and reapply or replace catch basin covers.

(iv) Before Final Completion, Contractor must remove and dispose of all catch basin covers.

(v) Contractor must shovel, absorb or vacuum saw cut slurry and pick up the waste prior to moving to the next location or at the end of each working day, whichever is sooner.

(vi) If saw cut slurry enters catch basins, Contractor must remove the slurry from the storm drain system immediately.

d. Traffic Detector Loop Installation and Repair.

(i) Contractor must protect nearby storm drain inlets prior to cutting or flushing slot for traffic detector loops. Contractor must block or berm around nearby storm drain inlets using sand bags or an equivalent barrier or use absorbent materials such as pads, pillows and socks to contain slurry.

(ii) Before Final Completion, Contractor must remove all sand bags and equivalent barriers and absorbent materials from the site and sweep the area clean and away from the storm drain inlet.

(iii) Contractor must clean up residues by sweeping up as much material as possible and must dispose of material properly.

e. Concrete, Grout and Mortar Waste Management.

(i) Contractor must avoid mixing excess amounts of fresh concrete or cement mortar on-site.

- (ii) Contractor must store concrete, grout and mortar away from drainage areas and ensure that these materials do not enter the storm drain system.
- (iii) Contractor will not wash out concrete trucks or equipment into streets, gutters, storm drains, or creeks.
- (iv) Contractor must perform washout of concrete trucks or equipment off-site or in a designated area on-site where the water will flow onto dirt or into a temporary pit in a dirt area. Contractor must let the water percolate into the soil and dispose of the hardened concrete in a trash container. If a suitable dirt area is not available, Contractor must collect the wash water and remove it off-site.
- (v) Contractor will prevent creating runoff by draining water from washing of exposed aggregate concrete to a dirt area. If a suitable dirt area is not available, Contractor must collect the wash water and remove it off-site.
- (vi) Before Final Completion, Contractor must remove all protective measures and treatment materials and sweep the site clean.
- (vii) Contractor must collect and return sweepings from exposed aggregate concrete to a stockpile or dispose of the waste in a trash container.

f. Painting.

- (i) Contractor must conduct cleaning of painting equipment and tools in a designated area that will not allow run-on of storm water or runoff of spills.
- (ii) Contractor will not allow wash water from cleaning of painting equipment and tools into streets, gutters, storm drains or creeks.
- (iii) Contractor will remove as much excess paint as possible from brushes, rollers and equipment before starting cleanup.
- (iv) To the maximum extent practicable and with permission from Cupertino Sanitary District, Contractor will dispose of wash water from aqueous cleaning of equipment and tools to the sanitary sewer.
- (v) If Contractor cannot dispose of wash water to the sanitary sewer, Contractor must direct wash water onto dirt area and spade in.
- (vi) To the maximum extent practicable, Contractor will filter paint thinner and solvents for reuse.
- (vii) Contractor must dispose of thinners, solvents, oil and water-based paint, and sludge from cleaning of equipment and

tools as hazardous waste, as described in these General Conditions.

(viii) Contractor must store paint, solvents, chemicals, and waste materials in compliance with the City of Cupertino Hazardous Materials Storage Ordinance and all applicable state and federal regulations. Contractor must store these materials in a designated area that will not allow run-on of storm water or runoff of spills.

(ix) Contractor must dispose of dry or empty paint cans and buckets, old brushes, rollers, rags, and drop cloths in the trash.

g. Earthwork.

(i) Contractor must use the BMPs for erosion and sedimentation in either the California Storm Water Best Management Practice Handbook - Construction Activity or the ABAG Manual of Standards for Erosion and Sediment Control Measures.

h. Thermoplastic.

(i) Contractor must transfer and load hot thermoplastic away from drainage systems or watercourses.

(ii) Contractor must sweep thermoplastic grindings into plastic bags. Yellow thermoplastic grindings may require special handling as they may contain paint.

i. Pesticide Usage and Pest Management.

(i) Contractor must follow all federal, state, and local policies (including the City's Integrated Pest Management Policy), laws, and regulations governing the use, storage, and disposal of pesticides and training of pest control advisors and applicators.

(ii) Contractor must submit pest management control methods to Engineer for approval. Such control methods may include, but are not limited to: no controls; physical or mechanical methods; environmental controls (mulching, pest-resistant vegetation); biological controls (predators, parasites, etc.); less toxic controls (soaps, oils, etc.); and hot water.

(iii) Contractor must notify and receive permission from the Engineer and the Public Works Environmental Division before applying any pesticides.

(iv) If permitted to use pesticides, Contractor must use the least toxic pesticides available and the use and type of such pesticides must be approved by the City. The City will consider the LD50, overall risk to the applicator, and impact to the environment when approving the use of pesticides.

- (v) Contractor must apply pesticides at the appropriate time to maximize their effectiveness and minimize the likelihood of discharging non-degraded pesticides in stormwater runoff. Contractor will not apply pesticides if rain is expected.
- (vi) Contractor must mix and apply only as much material as is necessary for treatment. Contractor must calibrate application equipment prior to and during use to ensure desired application rate.
- (vii) Contractor will not mix or load pesticides in application equipment adjacent to a storm drain inlet culvert or watercourse.
- (viii) Contractor will not use Clopyralid, Diazinon, Chlorpyrifos, Chloradane, DDT, Dieldrin or other organophosphates. Fipronil and pyrethroids including, but not limited to Deltamethrin and Bifenthrin, will not be applied on City property.
- (ix) Contractor must submit monthly summaries of pesticide use to the Public Works Environmental Division on appropriate City form. Information provided must include, at a minimum, the product used, the method of application, date applied, the area to which it is applied, and the amount applied.

7.21 Traffic Control and Public Safety

- A. **Fences and Barriers.** Contractor must furnish, erect, and maintain fences, barriers, lights, and signs, and must provide flagging and guards as necessary to give adequate warning to the public of the construction and of any dangerous condition at Contractor's sole cost and expense. City must approve all signs as to size, wording, and location. City, in its sole discretion, may direct Contractor to implement additional measures. Contractor may be required to cover certain signs which regulate or direct public traffic to roadways that are not open to traffic. The Engineer will determine which signs must be covered.
- B. **Manual on Uniform Traffic Control Devices (MUTCD).** Notwithstanding the requirements of this Section 7.21, all fences, barriers, signs, lights, flags, and other warning and safety devices and their use must conform to the requirements of Part 6 of the United States Department of Transportation MUTCD and the MUTCD California Supplement.
- C. **Sign Conflicts.** Signs and other protective devices furnished and erected by Contractor will not obscure the visibility of, nor conflict in intent, meaning, and function of, existing signs, lights, and traffic control devices or any construction area signs and traffic control devices
- D. **Public Access.** Contractor must conduct operations in the manner that offers the least possible obstruction and inconvenience to the public. Contractor must complete the Work in a manner that allows for access to public rights-of-way. Unless otherwise provided in the Contract Documents, all public traffic must be permitted to pass through the Work with as little inconvenience and delay as possible. Where possible, public traffic must be routed on new or existing paved surfaces.

E. **Public Spills.** Spillage resulting from hauling operations along or across any public right-of-way must be removed immediately by Contractor at Contractor's sole cost and expense.

F. **Existing Traffic Signals.** Existing traffic signals and highway lighting must be kept in operation and available for routine maintenance during construction.

G. **Abutting Properties.** Construction operations must be conducted in such a manner as to cause as little inconvenience as possible to abutting property owners. Contractor must maintain convenient access to driveways, houses, and buildings, and temporary approaches to crossings or intersecting highways must be provided and kept in good condition. When an abutting property owner's access across the right-of-way line is to be eliminated or replaced by other access facilities, the existing access will not be closed until the replacement access facilities are usable.

H **Lane Closures.** Lane closures are not permitted before 7:00 A.M. or after 5:00 P.M. from Monday through Friday or as otherwise specified in the Special Conditions or Specifications. City may, at its sole discretion, approve lane closures during this time upon written request from Contractor. Contractor must maintain a minimum of two travel lanes for traffic use (one in each direction) at all times.

I. **Costs.** Contractor is solely responsible for all costs for all required traffic control and public safety measures.

7.22 Noise Control. Contractor must comply with all applicable noise control laws, ordinances, regulations and rules. 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.

7.23 Fire Protection Plan. If a fire protection plan is required for this Project, within 21 days after the date of issuance of the Notice of Award, Contractor must submit to the Engineer a fire protection plan that has been reviewed and approved by the Santa Clara County Fire Department. In addition to any specified requirements for the fire protection plan, the plan should address all of the following:

- (A) Equipment spark arresters;
- (B) Fire-extinguishing equipment at the Worksite(s);
- (C) Fire response procedures;
- (D) Notification to authorities of any fire;
- (E) Fire equipment access during performance of the Work and after hours;
- (F) Educating and training workers to comply with the fire protection plan
- (G) Safe storage and transport of flammable materials; and
- (H) Equipment for ventilation and illumination.

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 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 stipulated in the Contract Documents.

(B) **Deleted or Reduced Work.** Contractor will not be compensated for Work that City 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 Worksite, as well as authorized and approved Change Orders. Each pay application must be supported by Contractor's Bid Schedule or schedule of values and any other substantiating data required by the Contract Documents.

(B) **Payment of Undisputed Amounts.** City will pay the undisputed amount due within thirty (30) days after Contractor has submitted a complete and accurate payment application, subject to Public Contract Code section 20104.50. City will deduct a percentage from each progress payment as retention, as set forth in Section 8.5, below, and may withhold additional amounts as set forth in Section 8.3, below.

8.3 Adjustment of Payment Application. City may adjust the amount requested, withhold disputed sums, or reject a payment application, including application for Final Payment, in whole or in part, or deduct or withhold from payment otherwise due based upon any of the circumstances and amounts listed below. Contractor will be notified in writing of the basis for the modification to the amount requested, and sums that have been withheld subject to performing contract requirements 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, City may withhold or deduct an amount based on the City's estimated cost to correct or complete the Work;

(B) For loss or damage caused by Contractor or its Subcontractor(s) arising out of or relating to performance of the Work or any failure to protect the Worksite, City 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;

(D) For Contractor's failure to timely correct rejected, nonconforming, or defective Work, City may withhold or deduct an amount based on the City's estimated cost to correct or complete the Work;

(E) For any unreleased stop notice, City may withhold 125% of the amount claimed;

(F) For Contractor's failure to submit any required schedule or schedule update in the manner and within the time specified in the Contract Documents, City may withhold or deduct an amount equal to five percent of the total amount requested;

(G) For Contractor's failure to maintain or submit as-built documents in the manner and within the time specified in the Contract Documents, City may withhold or deduct an amount based on the City's continued cost to prepare the as-builts;

(H) For Work performed without approved Shop Drawings, when approved Shop Drawings are required before proceeding with the Work, City may deduct an amount based on the estimated costs to correct unsatisfactory work or diminution in value;

(I) For fines assessed under the Labor Code;

(J) For any other costs or charges that may be withheld, deducted from, or offset against payments due, as provided in the Contract Documents, including liquidated damages; or

(K) For failure to release claims as to undisputed amounts pursuant to Section 8.9, below.

8.4 Early Occupancy. Neither City'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. City will retain five percent of the amount due on each progress payment, or the percentage stated in the Notice Inviting Bids, whichever is greater, as retention to ensure full and satisfactory performance of the Work.

(A) **Substitution of Securities.** As provided by Public Contract Code section 22300, Contractor may request in writing that it be allowed, at its sole expense, to substitute securities for the retention withheld by City. Any escrow agreement entered into pursuant to this provision must fully comply with Public Contract Code section 22300, and will be subject to approval as to form by City's legal counsel.

(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 under Section 8.3 or Section 8.6, 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 City's governing body or authorized designee pursuant to Section 11.1(E) below, or, if the Project has not been accepted, no later than 60 days after the Project is otherwise considered complete under Public Contract Code section 7107(c).

8.6 Setoff. City is entitled to set off any amounts due from Contractor against any payments due to Contractor. City's entitlement to setoff includes progress payments as well as Final Payment and unreleased retention.

8.7 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 Worksite by the Subcontractor or supplier during the preceding month. Such payments must be made in accordance with the requirements of the law, and those of the Contract Documents and applicable subcontract or supplier contract.

(A) **Withholding for Stop Notice.** Pursuant to Civil Code section 9358, City will withhold 125% of the amount claimed by an unreleased stop notice, a portion of which may be retained by City for the costs incurred in handling the stop notice claim, including attorneys' fees and costs, as authorized by law.

(B) **Joint Checks.** City reserves the right to issue joint checks made payable to Contractor and its Subcontractors or suppliers. 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 City. 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 City and a Subcontractor or supplier of any tier beyond the scope of the joint check agreement.

8.8 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. The date of Final Payment is deemed to be effective on the date that City acts to release undisputed retention as final payment to Contractor, or otherwise provides written notice to Contractor of Final Payment. If the amount due from Contractor to City exceeds the amount of Final Payment, City retains the right to recover the balance from Contractor or its sureties.

8.9 Release of Claims. City may, at any time, require that payment of the undisputed portion of any progress payment or Final Payment (excepting undisputed retention subject to release under Public Contract Code section 7107) be contingent upon Contractor furnishing City with a written waiver and release of all claims against City arising from or related to the portion of Work covered by those undisputed amounts subject to the limits of Public Contract Code section 7100. The waiver and release of claims must be submitted using the City's Release of Claims form. Any disputed amounts may be specifically excluded from the release.

8.10 Warranty of Title. Contractor warrants that title to all work, materials, or equipment incorporated into the Work or delivered to a Worksite, and included in a request for payment will pass over to City free of any claims, liens, or encumbrances upon any payment to Contractor pursuant to this Article 8.

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 federal and California laws, including the California Fair Employment and Housing Act (Government Code sections 12900 et seq.), Government Code section 11135, and Labor Code sections 1735, 1777.5, 1777.6, and 3077.5.

9.2 Labor Code Requirements.

(A) **Eight Hour Day.** Under Labor Code section 1810, eight hours of labor constitute a legal day's work under this Contract.

(B) **Penalty.** Under Labor Code section 1813, Contractor will forfeit to City 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 section 1815.

(C) **Apprentices.** Contractor is responsible for compliance with the requirements governing employment and payment of apprentices, as set forth in Labor Code section 1777.5, which is fully incorporated by reference.

(D) **Notices.** Under Labor Code section 1771.4, Contractor is required to post all job site notices prescribed by law or regulation.

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

(A) **Penalties.** Under Labor Code section 1775, Contractor and any Subcontractor will forfeit to City as a penalty up to \$200.00 for each calendar day, or portion a day, 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 current applicable prevailing wage rates under federal law, available online at <http://www.access.gpo.gov/davisbacon/ca.html>.

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

(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 sections 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 City, 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 section 1776, Contractor or Subcontractor has ten days in which to comply with 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 a day, 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 progress payments then due.

- 9.5 Labor Compliance.** Under Labor Code section 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 safety laws, rules and regulations and seek to avoid injury, loss, or damage to persons or property by taking reasonable steps to protect its employees and other persons at the Worksite, materials and equipment stored on or off site, and property at or adjacent to the Worksite.

(A) **Reporting Requirements.** Contractor must immediately provide a written report to City of all recordable accidents and injuries occurring at the Worksite. If Contractor is required to file an accident report with a government agency, Contractor will provide a copy of the report to City.

(B) **Legal Compliance.** Contractor's safety program must comply with the applicable legal and regulatory requirements. Contractor must provide City with copies of all notices required by law or regulation.

(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 City determines, in its sole discretion, that any part of the Work or Worksite is unsafe, City 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 City's satisfaction. If Contractor fails to promptly take the required corrective measures, City 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 City'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 Worksite 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 City. 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 section 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 Material Safety Data Sheets ("MSDS") at the Worksite, as required by law, for materials or substances used or consumed in the performance of the Work. The MSDS will be accessible and available to Contractor's employees, Subcontractors, and City.

(A) **Contractor Obligations.** Contractor is solely responsible for the proper delivery, handling, use, storage, removal, and disposal of all materials brought to the Worksite 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 Worksite 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. Such conditions may result from, but are not limited to, use of specified materials or equipment, the Work location, the Worksite condition, the method of construction, or the way any Work must be performed.

Article 11 - Completion and Warranty Provisions

11.1 Final Completion.

(A) **Final Inspection.** When the Work required by this Contract is fully performed, Contractor must provide written notification to City 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, City will prepare a punch list of items that are incomplete, incorrectly installed, or not operating as required by the Contract Documents. The omission of any such item from this punch list will not relieve Contractor from fulfilling all requirements of the Contract Documents.

(B) **Punch List.** City will deliver the punch list to Contractor and will specify the time by which all of the punch list items must be completed or corrected. The punch list may include City's estimated cost to complete each punch list item if Contractor fails to do so within the specified time.

(C) **Requirements for Final Completion.** Final Completion will be achieved upon completion or correction of all punch list items, as verified by City inspection, and upon satisfaction of all other Contract requirements, including any commissioning required under the Contract Documents and submission of all final submittals, including a warranty bond as required under Section 4.4, instructions and manuals as required under Section 7.10, and as-built drawings as required under Section 7.11, all to City's satisfaction.

(D) **Acceptance.** Following Final Completion, the Project will be considered accepted upon City Council action during a public meeting to accept the Project, or if the

Engineer is authorized to accept the Project, the Project will be considered accepted upon the date of the Engineer's issuance of a written notice of acceptance.

(E) **Final Payment.** 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, City may, acting in its sole discretion, elect to accept the Project, record the notice of completion, and withhold up to 150% of City's estimated cost to complete the remaining items from Final Payment.

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. At City'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 recordation of the notice of completion (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 acceptance, Contractor must supply City 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 expressly agrees to act as co-guarantor of such Work.

(E) **Contractor's Obligations.** Upon written notice from City 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.

(F) **City's Remedies.** If Contractor or its responsible Subcontractor fails to correct defective Work within ten days following notice by City, or sooner if required by the circumstances, Contractor expressly agrees that City may correct the defects to conform with the Contract Documents at Contractor's sole expense. Contractor must reimburse City for its costs within 30 days following City's submission of a demand(s) for payment pursuant to this provision. If City is required to initiate legal action to compel Contractor's compliance with this provision, and City is the prevailing party in such action, Contractor and its surety are solely responsible for all of City's attorney's fees and legal costs expended to enforce Contractor's warranty obligations herein in addition to any and all costs City incurs to correct the defective Work.

(G) **Emergency Repairs.** In cases of emergency where any delay in correcting defective Work could cause harm, loss or damage, Contractor expressly agrees that City may immediately correct the defects to conform with the Contract Documents at

Contractor's sole expense. Contractor or its surety must reimburse City for its costs within 30 days following City's submission of a demand(s) for payment pursuant to this provision. If City is required to initiate legal action to compel Contractor's compliance with this provision, and City is the prevailing party in such action, Contractor and its surety are solely responsible for all of City's attorney's fees and legal costs expended to enforce Contractor's warranty obligations herein in addition to any and all costs City incurs to immediately correct the defective Work, including any associated overtime charges.

11.3 Use Prior to Final Completion. City reserves the right to occupy or make use of the Project, or any portions of the Project, prior to Final Completion if City 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. City will notify Contractor in writing of its intent to occupy or make use of the Project or any portions of the Project, pursuant to this provision.

(A) **Non-Waiver.** Occupation or use 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 City'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) **City's Responsibility.** City 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 recordation of the notice of completion, 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 change in the Contract Time, including a time extension or relief from liquidated damages, or a change in the Contract Price, that has previously been submitted to City in accordance with the requirements of the Contract Documents, and which has been rejected or disputed by City, in whole or in part.

(B) **Limitations.** A Claim may only include the portion of a previously rejected demand that remains in dispute between Contractor and City. 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 City in full compliance with Article 5 and Article 6, and subsequently rejected in whole or in part by City.

(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 Section 9204 and Sections 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 the 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.

12.2 Claims Submission. The following requirements apply to any Claim subject to this Article:

(A) **Substantiation.** The Claim must be submitted to City 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 City'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 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 claimed cost. Any Claim for an extension of time or delay costs must be substantiated with schedule analysis and narrative depicting and explaining claimed time impacts.

(B) **Claim Format.** A Claim must be submitted in the following format:

(1) General introduction, specifically identifying the submission as a "Claim" submitted under this Article 12.

(2) Relevant background information, including identification of the specific demand at issue, and the date of City's rejection of that demand.

(3) Detailed explanation of the issue(s) in dispute. For multiple issues, separately number and identify each issue and include the following for each separate issue:

a. The background of the issue, including references to relevant provisions of the Contract Documents;

b. A succinct statement of the matter in dispute, including Contractor's position and the basis for that position;

c. A chronology of relevant events;

d. The identification and attachment of all supporting documents (see subsection (A), above, on Substantiation); and

e. Use of a separate page for each issue.

(4) Summary of issues and damages.

(5) 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 are true and correct. Contractor warrants that this Claim is comprehensive and complete as to the matters in dispute, and agrees that any costs, expenses, or delay claim not included herein are deemed waived. Contractor understands that submission of a Claim which has no basis in fact or which Contractor knows to be false may violate the False Claims Act (Government Code Section 12650 et seq.)."

(C) **Submission Deadlines.**

(1) A Claim must be submitted within 15 days following the date that City 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.

(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 15 days of the effective date of Final Payment, under Section 8.8, above.

(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 City's Response. City 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 City and Contractor or as otherwise allowed under Public Contract Code section 9204. However, if City determines that the Claim is not adequately documented, City 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 City may have against the Claim. If Contractor fails to submit the additional documentation to City within 15 days of receipt of City's request, the Claim will be deemed waived.

(A) **Additional Information.** If additional information is thereafter required, it may be requested and provided upon mutual agreement of City and Contractor.

(B) **Non-Waiver.** Any failure by City to respond within the times specified above may 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 City's written response, or City fails to respond within the specified time, within 15 days of receipt of City's response, or within 15 days of City's failure to respond within the applicable 45-day time period under Section 12.3, respectively, Contractor may notify City 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 dispute City's response 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, City 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 City's principal office.

(C) **Written Statement After Meet and Confer.** Within ten working days after the meet and confer has concluded, City 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 City issues the written statement identifying any portion(s) of the Claim remaining in dispute, the disputed portion(s) will be submitted for mediation, as set forth below.

12.5 Mediation and Government Code Claims.

(A) **Mediation.** Within ten working days after the City issues the written statement identifying any portion(s) of the Claim remaining in dispute following the meet and confer, City and Contractor will mutually agree to a mediator, as provided under Public Contract Code section 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. The parties will share the costs of mediation equally, except costs incurred by each party for its representation by legal counsel or any other consultants.

(B) Government Code Claims.

(1) Timely presentment of a Government Code Claim is a condition precedent to filing any legal action based on or arising from the Contract.

(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 California Code of Civil Procedure Section 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 Damages. 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 recovery of any alleged home office overhead. The Eichleay Formula or similar formula may not be used for any recovery under the Contract. Contractor is not entitled to special, incidental, or consequential damages, including home office overhead or any form of overhead not directly incurred at the 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.

- 12.9 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, unless and only to the extent that compliance with a procedural requirement is expressly and specifically waived by City. 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 City, if Contractor fails to perform or correct work in accordance with the Contract Documents, City may immediately order the Work, or any portion of it, suspended until the cause for the suspension has been eliminated to City's satisfaction.
- (A) **Failure to Comply.** Contractor will not be entitled to an increase in Contract Time or Contract Price for a suspension occasioned by Contractor's failure to comply with the Contract Documents.
- (B) **No Duty to Suspend.** City's right to suspend the Work will not give rise to a duty to suspend the Work, and City'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.** City 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 City's convenience, and not due to any act or omission by Contractor or its Subcontractors. Upon notice by City pursuant to this provision, Contractor must immediately suspend, delay, or interrupt the Work and secure the Project site as directed by City except for taking measures to protect completed or in progress Work as directed in the suspension notice. The Contract Price and the Contract Time will be equitably adjusted by Change Order to reflect the cost and delay impact occasioned by such suspension for convenience. However, the Contract Time will not be adjusted if the suspension will not delay Final Completion by the Contract Time.
- 13.3 Termination for Default.** Contractor may be deemed in default for a material breach of or inability to perform the Contract, including Contractor's refusal or failure to supply sufficient skilled workers, proper materials, or equipment to perform the Work within the Contract Time; refusal or failure to make prompt payment to its employees, Subcontractors, or suppliers or to correct rejected work; disregard of laws, regulations, ordinances, rules, or orders of any public agency with jurisdiction over the Project; lack of financial capacity to complete the Work within the Contract Time; or responsibility for any other material breach of the Contract requirements.
- (A) **Notice.** Upon City's determination that Contractor is in default, City may provide Contractor and its surety written notice of default and intent to terminate the Contract.
- (B) **Termination.** Within seven calendar days after notice of intent to terminate for default has been given, unless the default is cured or arrangements to cure the default have been made and memorialized in writing, to City's satisfaction, City may terminate the Contract by written notice to Contractor with a copy to Contractor's surety.
- (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, Contractor's surety will be deemed to have waived its right to complete the Work under the Contract, and City 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 City determines advisable under the circumstances. Contractor and its surety will be jointly and severally liable for any additional cost incurred by City to complete the Work following termination. In addition, City will have the right to use any materials, supplies, and equipment belonging to Contractor and located at the Worksite for the purposes of completing the remaining Work.

(D) **Wrongful Termination.** 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 consequential damages, lost opportunity costs or lost profits.

13.4 Termination for Convenience. City reserves the right to terminate all or part of the Contract for convenience upon written notice to Contractor. Upon receipt of such notice, Contractor must: immediately stop the Work, including under any terms or conditions that may be specified in the notice; comply with City's instructions to protect the completed Work and materials; and use its best efforts to minimize further costs. Subject to City's directions in the notice, 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. Contractor must also promptly cancel, on the most favorable terms possible, all existing subcontracts that relate to performance of the discontinued Work.

(A) **Compensation to Contractor.** In the event of City'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 to date, 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.* Actual and substantiated demobilization costs; and
- (3) *Markup.* Five percent of the total value of the Work performed as of the date of notice of termination or five percent of the value of the Work yet to be completed, whichever is less, which is deemed to cover all overhead and profit to date.

13.5 Effect of Any Contract Termination. Upon any termination pursuant to this Article, City may enter upon and take possession of the Project and the Work. City may also take possession of, for the sole purpose of completing the Work, all of Contractor's tools, equipment and appliances, and all materials on the Work site or stored off the Work site that will be incorporated in the Work. 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, 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 section 7103.5, Contractor and its Subcontractors agree to assign to City 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. section 15) or under the Cartwright Act (Chapter 2 (commencing with section 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 City 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.** City'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 City. City'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 City.
- 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 that bids were due.

END OF GENERAL CONDITIONS

Special Conditions

1. Existing Equipment.

1.1 Contractor will carefully remove all existing equipment from the Worksite. If the City specifies or indicates that equipment is to be salvaged and reused or to remain the property of City then the Contractor will reuse or return the equipment to the City. Contractor will store and protect salvaged equipment specified to be reused in the Work. Contractor will delivery to the City in good condition the equipment that is to remain City property but not be reused in the Work.

1.2 If an item specified to be salvaged is damaged during its removal, storage, or handling through carelessness or improper procedures, then Contractor will replace that equipment in kind or with a new item. For those items specified to be salvaged Contractor may choose to instead furnish and install new equipment, in which case the original, removed items will become Contractor's property. Existing materials and equipment removed by Contractor will only be reused in the Work if so specified or indicated by the City.

2. Insurance Requirements. The insurance requirements under Section 4.3 are modified for this Contract, as set forth below. Except as expressly stated below, all other provisions in Section 4.3 are unchanged and remain in full force and effect.

2.1 Builders Risk Insurance Waived. The builder's risk insurance policy requirement set forth in subsection 4.3(A)(3) of the General Conditions is hereby waived and does not apply to this Contract.

3. Work Days and Hours. Work hours and noise pose a special concern for projects in residential neighborhoods. The City is very concerned for its residents and will diligently enforce the restrictions below.

3.1 Work Hours. 7:00 a.m.-5:00 p.m. local time, weekdays, 9:00 a.m. – 5:00 p.m. on Saturdays, 9:00 – 4:00 p.m. Sundays.

3.2 Worker Arrival and Parking. Workers may arrive at the Worksite no earlier than 7:00 a.m. **Violations of these requirements will result in a \$3,000 dollar penalty to Bidder/Contractor, per occurrence.**

3.3 Equipment and Material Delivery and Off-Haul Hours. No equipment or material may be delivered or off-hauled except between the hours of 7:00 a.m. and 5:00 p.m. No equipment that has a safety back up beeper may be operated before 7:00 a.m. on any day.

3.4 Work Days Only. Work will only be performed on Work Days, as defined in the General Conditions, unless Contractor requests otherwise from City in writing at least 2 working days in advance, and City approves the request in its sole discretion. In the case of Work by Contractor after normal working hours,

3.5 Connections to Existing Facilities. Unless otherwise specified or indicated, Contractor will make all necessary connections to existing facilities, including structures, drain lines, and utilities such as water, sewer, gas, telephone, and electric. In each case, Contractor will receive permission from City or the owning utility prior to undertaking connections and coordinate as needed to accommodate the facilities operations. Contractor will protect facilities against deleterious substances and damage.

3.6 Road Shutdown. Contractor will execute the Work while roads are in operation except for the periods of permitted shutdown. For shutdown periods, Contractor will prepare and submit a detailed plan that includes shutdown schedule, planned sequence of work, milestones and projected times of completions of activities, any anticipated problems, Contractor's supervisory personnel, actions desired of City and staff, and contingency plans. Contractor will allow sufficient time for review and re-submittal of the shutdown plan until acceptable to City. Contractor will employ sufficient labor, superintendence, and equipment on a 24-hour, 7 days a week basis during shutdown and other operational disruptions to complete Work within the specified periods at no additional cost to the City. Once initiated, Work may proceed on extra shift or around-the-clock basis as necessary. When required to minimize treatment process interruptions while complying with specified sequencing constraints, Contractor will provide power, lighting, controls, instrumentation, and safety devices.

3.7 Noise Limitation. No non-construction noise will be allowed, this includes amplified music, radio or other noise not due to construction activities.

4. **SUBMITTALS FOR QUALITY ASSURANCE.** In the Technical Specifications, the City may specify quality assurance requirements, including qualifications for special skills and experience required of the Contractor. For any specified skill, the Contractor may use a subcontractor that specializes in the work and meets the performance requirements or the Contractor may self-perform the work, subject to demonstrating the necessary skill, experience, and/or certifications to perform the work.

The Contractor will submit verification that the materials and labor skills meet the specified requirements prior to implementing the specific work through the submittal process.

5. **Authorized Work Days and Hours.**

5.1 Authorized Work Days. Except as expressly authorized in writing by City, Contractor is limited to performing Work on the Project on the following days of the week, excluding holidays observed by City:

Monday thru Friday

5.2 Authorized Work Hours. Except as expressly authorized in writing by City, Contractor is limited to performing Work on the Project during the following hours:

Work hours shall be determined by street type and proximity to schools.

STREET TYPE	LANE CLOSURE RESTRICTIONS
Arterials:	Lane closures are limited to one lane at a time. No lane closures are allowed prior to 9:30 AM or after 3:30 PM. The roadway shall be open for two-way traffic at all times.
Collectors: S Tantau Ave, Bandlely Dr, Bubb Rd,	On four lane streets, one lane in each direction shall be maintained at all times. On two lane streets, flagmen shall be used to maintain traffic flow.

Streets Near Schools: See attachment A	Work shall be limited to days when school is out of session. (June 8, 2018 – August 11, 2018) Work hours on streets within 500' of a school are limited to 9:30 AM to 2:00 PM. Hauling of equipment and materias is prohibited within 500' of any school between the hours of 7:00 Am and 9:30 AM and 2:00 PM and 4:00 PM. Contractor is responsible for identifying locations of schools and planning haul route accordingly.
Residential All other streets	Traffic may be limited to only local traffic during the period between 8 a.m. and 5 p.m.

SEE ATTACHMENT “A” – Work Hour Restrictions

6. Traffic Control Requirements

The Contractor shall submit traffic control plans to the Engineer for approval five (5) working days prior to the pre-construction meeting. Traffic control plans shall conform to the requirements in item number 6.22 below. All cost and expense for traffic control shall be included in the bid prices for various bid items and no special compensation shall be allowed.

6.1 The Contractor shall conduct operations and schedule cleanup so as to cause the least possible obstruction and inconvenience to traffic, pedestrians, cyclists and adjacent property owners. All work areas shall be swept clean at the end of each day's work and at other times when directed by the Engineer. A mobile street sweeper shall be used wherever practical and dust shall be suppressed to the satisfaction of the Engineer.

6.2 The Contractor shall protect open excavations, trenches, and such during construction with fences, covers, and railings as required, together with signs, lights, and other warning devices sufficient to maintain safe pedestrian, bicycle and vehicular traffic to the satisfaction of the Engineer.

6.3 Damage done by the Contractor during the course of the work to adjacent City, public or private property shall be repaired in kind, or as directed by the Engineer, at the Contractor's expense. This includes the repair of traffic loop detectors, striping, signing, curb markings, etc. Loop detectors must be repaired within one week of the damage.

6.4 The Contractor shall remove all forms, debris, and undesirable material from the job site at the end of each work day. After each site has been completed, the Contractor shall restore planting areas and other areas abutting the work to the condition existing at the start of work.

6.5 No stockpiling of materials or parking of equipment during non-working hours will be allowed on City property, i.e., streets, alleys, parking lots, sidewalks, etc.

6.6 The Contractor's employees are subject to all parking regulations in effect in the City of Cupertino.

6.7 The Engineer shall have the right to limit the amount of asphalt digouts which may be opened or partly opened at any time. No more than 300 feet of asphalt digouts shall be left open at any one time.

6.8 All open trench and excavations must be backfilled and paved with temporary asphalt concrete or non-skid steel plated at the end of each work day. The Contractor shall place 18 inches cold cutback around the edges of steel plates to eliminate the vertical edges.

6.9 Spillage resulting from hauling operations along or across any public traveled way shall be removed immediately by the Contractor at his expense.

6.10 The Contractor shall place barricades 50 feet on center at the gutter joints and provide one working flasher for each barricade and shall insure that each flasher is maintained in working condition while in use. The Contractor shall not remove the barricades in the street at any given location until the asphalt concrete patching adjacent to the gutter and/or gutter overlay has been done and the hazard to bicyclists and motorists no longer exist.

6.11 Contractor shall maintain access to all driveways except when actually doing construction within the driveway boundaries, at which time partial access will be maintained unless alternate arrangements can be made with the property owners or tenants in advance. If the driveway to any garage or parking area is to be closed for construction work, prior written approval must be obtained from the property owners and the Engineer. Notice shall be posted by the Contractor 72 hours in advance stating the approximate time the driveway will be closed and reopened.

6.12 City of Cupertino Truck Routes for all hauling shall be used, as described in Section 10 of the Special Provisions.

6.13 Contractor shall obtain a Transportation permit from the Public Works Department for any vehicle which exceeds weight or dimensions prescribed in the California Vehicle Code.

6.14 The Contractor shall provide a certified professional traffic control crew that is independent from the construction activity. This traffic control crew shall be responsible to the Contractor for implementing the traffic control measures detailed in this Contract. The crew is subject to the approval of the Engineer.

6.15 The Contractor shall supply, place, and maintain all necessary traffic control devices during construction in accordance with the applicable requirements of the City of Cupertino, the California Manual of Uniform Traffic Control Devices, and the traffic control plans approved by the City.

6.16 All traffic control devices shall conform to Section 12 of the Caltrans Standard Specifications. They are to be in good condition and sufficiently clean so as to be easily visible to traffic. All signs shall be placed in positions where they convey their message most effectively or as shown on the approved traffic control plan.

6.17 Type II and III barricades with working flashers shall be used. At least one working flashing light must be installed on each barricade for night work. Flashing lights must be maintained in good working order throughout the duration of the work. Crosswalk closing barricades shall be Type II with a 6" orange border at the base.

6.18 Signs to be used for traffic control shall conform to the requirements of the California Manual of Uniform Traffic Control Devices. Signs that are attached to existing poles shall not cause any damage to the poles when they are attached or removed. All of the hardware that is used when attaching signs to existing poles shall be completely removed from the poles when the signs are removed. If a construction sign is required in

an area where it cannot be attached to an existing pole, it shall be attached to a 4" x 4" wooden pole. The distance from the ground surface to the bottom of the sign shall be seven (7) feet.

6.19 A flag-type high level warning device with three or more flags shall be used for each direction of traffic affected, generally placed within the taper area.

6.20 Flashing arrow boards shall be Type A or Type II as described in Section 6F.56 of the California Manual of Uniform Traffic Control Devices. Flashing arrow boards are required for lane shifts and reductions and may be required for nighttime work.

6.21 Dated "No Parking Tow Away" signs shall be posted a minimum of 72 hours in advance of all work requiring that cars not be parked on the street. Date and time of work shall be written on signs in two-inch-high letters with a ¼-inch felt black marker. Signs shall be posted 50 feet on center and removed immediately after the work is completed. The Contractor must notify the Project Inspector with locations of posting to verify seven-two (72) hour notice.

6.22 Traffic Control Plans. A traffic control plan consistent with the following generally applicable conditions must be approved by the Public Works Department prior to the pre-construction meeting. The Contractor shall supply, place, and maintain all necessary traffic control devices in accordance with the California Manual of Uniform Traffic Control Devices and the following conditions:

- Traffic control plans will include a schedule of construction showing each phase of work and the anticipated method of handling traffic for each phase. Traffic control plans will include a scaled drawing of the street, lane configuration, parking, sidewalk, work area, and the location of signs and cones, etc., to warn, direct, and guide the traffic. For all major intersections, the traffic control plan shall reflect actual (not typical) intersection layout and indicate islands, medians, lane lines, bike lanes, nearby driveways, and note all pavement and lane widths.
- In general, Contractor shall maintain all vehicular, pedestrian, and bike movements. No total closure of any arterial or collector street will be permitted. City may allow closure of local residential streets but Contractor shall always maintain local and emergency access.
- The Contractor shall maintain one lane of traffic in each direction at all times on all streets. The clear width of the lane shall be a minimum of 10 feet.
- A minimum four feet clear sidewalk shall be maintained unless the work makes closure unavoidable, in which case the sidewalk may be closed while working, subject to the approval of the Engineer. However, an alternate pedestrian facility must be provided for the duration of the closure. At intersections, work will be permitted at one corner at a time so pedestrian movements can be maintained through the intersection.

6.23 Work shall not restrict visibility of any traffic control device.

6.24 No work will be permitted within 1500 feet of school grounds until after 8:30 a.m. on school days. Other special restrictions may be required at heavily used school crossings or school commute routes beyond 1500 feet from the school grounds as deemed necessary for student safety by the Engineer.

6.25 No closure of lanes on arterial and collector streets will be permitted between the hours of 7 and 9 a.m. and 3:30 and 7 p. m.

6.26 If work will impact transit stops or transit routes, Contractor shall be required to contact Santa Clara Valley Transportation Authority or other affected transit companies to address relocation of facilities or rerouting of buses prior to submitting traffic control plan. Traffic control plan should indicate what actions are being taken with regard to transit services.

6.27 Any work within 150 feet of any signalized intersection should be coordinated with the Traffic Signal Technician at (408) 777-1366.

6.28 The Contractor shall be required at Contractor's expense to hire Santa Clara County Sheriff's officers to direct traffic when working at signalized intersections, especially when (1) equipment is intermittently blocking or crossing a traffic lane; (2) only one lane of traffic is available for two directions of traffic; (3) one lane of traffic is available in each direction, but the left turning traffic is also using the through lane; and (4) at multiple lane signalized intersections. Two officers per intersection shall be required.

6.29 All signs and other warning devices shall be provided by the Contractor and shall become his property after completion of the Contract. The cost of providing, installing and maintaining signs, lights, caution tape, delineators, flares, barricades and other facilities as directed by the Engineer for the convenience and direction of public traffic shall be included in the prices paid for the various items of work involved in the project.

6.30 The above requirements are a minimum and do not limit the Contractor's responsibility of doing all that is practical and necessary to ensure the safety of workers, pedestrians, bicyclists, and motorists. The Contractor shall conform to the above traffic control requirements which are generally applicable to most common situations. Based on the nature of a job, additional conditions or exceptions to the above conditions may be necessary.

7. Lines and Grades Verification

All Work must be done to the lines, grades, and elevations indicated on the Drawings and Specifications, and in accordance with all applicable codes and laws. Contractor is required to verify forms and - comply with lines, grades and elevations. Prior to pouring or placing any concrete or asphalt Contractor must have a California licensed land surveyor or civil engineer field verify lines, grades and elevations prior to proceeding with the placement of concrete or asphalt. The land surveyor or civil engineer must have at least five years of relevant experience, and must be acceptable to the City. Contractor must provide City verification of the licensing and experience for each proposed land surveyor or civil engineer. Contractor must provide City with inspection results for form and grade work. Contractor must remedy any non-compliant Work at no additional cost to City.

8. Notification Requirements

The contractor shall provide advanced notification to residents and businesses as follows:

8.1 Advanced Notification Doorhanger:

The Contractor shall submit a sample door hanger to the City of Cupertino for review and approval. At a minimum, the doorhanger shall included the type of work to be completed, location, scheduled dates of work, hours of work, access during construction and contractor contact information. The door hanger shall be distributed to residents and business along effected streets at least 48 hours but no more than 96 hours prior to commencement of work. Notification will be necessary prior to asphalt failure digouts and, when applicable, a second time prior to asphalt overlay.

8.2 Night Work Notification

The Contractor shall distribute advanced notification of night work to residents and business located within 750' of the limits of night work. The notice shall include dates and times of work to be completed. The Contractor shall submit a draft notification for review and approval prior to distribution. Notices shall be delivered a minimum of one week prior to work.

8.3 Posting and Towing

Dated "No Parking Tow Away" signs shall be provided by the contractor and posted a minimum of 72 hours in advance of all work requiring that cars not be parked on the street. The specific dates and times of work shall be written on signs in two-inch-high letters with a ¼-inch felt black marker. Signs shall be posted on Type II barricades, 50 feet on center and removed immediately after the work is completed. The Contractor shall update signs as necessary. The Contractor must notify Project Inspector with locations of posting to start and verify seventy-two (72) hour notice.

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

- 9.1** Name, 24-hour contact information, and qualifications of the proposed on-site superintendent;
- 9.2** List of all key Project personnel and their complete contact information, including email addresses and telephone numbers during regular hours and after hours;
- 9.3** 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;
- 9.4** If required, traffic control plans that are signed and stamped by a licensed traffic engineer;
- 9.5** Schedule with list of Project submittals that require City review, and list of the proposed material suppliers;
- 9.6** Plan for coordination with affected utility owner(s) and compliance with any related permit requirements;
- 9.6** 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;
- 9.7** Project Baseline Schedule outlining how contractor plans to meet construction schedule for each applicable bid item on a street by street basis.
- 9.8** If requested by City, Contractor's cash flow projections; and
- 9.9** Any other documents specified in the Special Conditions, Technical Provisions or Notice of Award.

END OF SPECIAL CONDITIONS

Project Forms

Contractor must use the Project forms provided with these Contract Documents, as specified in the Contract Documents, in addition to any City-required forms provided at the pre-construction conference. The following forms are included in the Project manual:

Substitution Request Form

Release of Claims Form

Insurance Forms:

- *Insurance Forms Instructions*
- *Certificate of Insurance to the City of Cupertino*
- *Additional Insured Endorsement/Endorsement of Primary Insurance/Notice of Policy Cancellation Endorsement*
- *Comprehensive General Liability Commercial General Liability Endorsement of Aggregate Limits of Insurance Per Project*
- *Waiver of Subrogation Endorsement Workers' Compensation Insurance*

Substitution Request Form

This Substitution Request Form must be used for each requested substitution, including pre-bid and post-award requests. Reference Section 12 of Instructions to Bidders and/or Section 7.7 of the General Conditions for applicable substitution request requirements. The form must be completed fully and legibly as directed using additional pages if needed, dated, signed and submitted with all attachments via _____ <email/mail/other> to _____ <name and title> at _____ <email/address>.

1. Bidder/Contractor Name: _____
2. Subcontractor/supplier Name (if applicable): _____
3. Precisely identify by Specification, Drawing and/or detail number(s) the specified item that is the subject of this request (the "Specified Item"): _____
4. Identify and describe the proposed substitution ("Proposed Substitution"): _____
5. Explain the reason for requesting substitution of the Specified Item: _____
6. Explain why the Proposed Substitution is equal or superior to the Specified Item. Attach manufacturer's literature, including complete technical data and laboratory test results, if applicable. _____
7. Describe the differences between the Proposed Substitution and the Specified Item:

8. Provide complete and specific information on changes to Drawings and Specifications that will be required for the Proposed Substitution, attaching separate sheets, including drawings, as needed:

9. Explain how the Proposed Substitution will affect dimensions shown on the Drawings:

10. Are the manufacturer's guarantees and warranties on the Proposed Substitution equal or superior to those on the specified items? ___Yes / ___No
If yes, describe each difference in detail:

11. If approved, what effect will the substitution have on other contractors, trades, or suppliers?

12. Will granting the requested substitution cause any schedule delay? ___Yes / ___No
If yes, explain:

13. What is the estimated increase or decrease in the Contract Price if the Proposed Substitution is approved?

Increase cost by \$_____ or Decrease cost by \$_____ or No change_____

14. If the Proposed Substitution has a color or pattern, provide a color board showing Proposed Substitution in relation to the other adjacent colors and patterns.

15. List each document attached to this Substitution Request Form:

_____	_____
_____	_____
_____	_____
_____	_____

By signing below, the Bidder or Contractor submitting this request for substitution certifies that the function, appearance, and quality of the Proposed Substitution is equivalent or superior to those of the Specified Item.

Submittal Date: _____

Submitted by:

Bidder/Contractor Name

For Use by City:

____ Accepted ____ Accepted as Noted

Signature

____ Not Accepted ____ Received Too Late

Name / Title

By: _____
City's Representative

Address

Date: _____

City/State/Zip

Remarks: _____

Telephone: _____

Date: _____

Email: _____

END OF DOCUMENT

Release of Claims

If required by the City of Cupertino for the above-referenced project ("Project"), this Release of Claims form must be completed as indicated, signed and submitted with Contractor's payment application pursuant to Section 8.9 of the Contract General Conditions. Unless otherwise specified, all defined terms in this Release of Claims form have the same meaning as stated in Article 1 of the Contract General Conditions.

Contractor Name: _____
Payment Application Number: _____
Amount Requested: \$ _____

1. Undisputed Amounts. Upon receipt of all undisputed amounts ("Undisputed Amounts") from the City of Cupertino ("City") for Work included in the above-referenced payment application, Contractor releases all claims against the City that relate to the Undisputed Amounts. Contractor's release is a full, final, and general release of all claims, demands, actions, causes of action, obligations, costs, additional compensation, extension of the Contract Time, expenses, damages, losses and liability against the City, its City Council, collectively and individually, and all of City's officers, officials, employees, consultants, inspectors, agents, representatives, assignees or transferees with respect to the Undisputed Amounts.

2. Civil Code Waiver. With respect to the above release for the Undisputed Amounts, Contractor waives the provisions of Civil Code section 1542, which states:

"A general release does not extend to claims which the creditor does not know or suspect to exist in his or her favor at the time of executing the release, which if known by him or her must have materially affected his or her settlement with the debtor."

3. Disputed Claims. Pursuant to Public Contract Code section 7100, Contractor's release and waiver of the claims related to the Undisputed Amounts does not extend to disputed contract claims in stated amount excluded by Contractor, as follows:

<u>Claim No.</u>	<u>Date</u>	<u>Amount Claimed</u>	<u>Description</u>
------------------	-------------	-----------------------	--------------------

[Information may be attached on a separate page]

4. Legal Effect. By signing below, Contractor agrees that this Release of Claims will operate as a complete defense for City against any later attempts to seek recovery or damages of any kind against City that relate to the Undisputed Amounts.

5. Authorization and Execution. This Release of Claims must be signed by Contractor's authorized representative. If Contractor is a partnership this Release of Claims must be signed in the partnership name by a general partner with authority to bind the partnership. If Contractor is a corporation this Release of Claims must be signed with the legal name of the corporation,

followed by the signature and title of two officers of the corporation with full authority to bind the corporation to the terms of the Release of Claims, under California Corporation Code section 313. Each individual signing below warrants that he or she is fully authorized to execute this Release of Claims on behalf of Contractor and that it will be binding against Contractor.

Contractor hereby agrees to all terms and conditions of this Release of Claims:

Contractor Business Name

Date

Signature

Signature

Name/Title (If Corporation: Chairman, President or Vice President)

Name/Title (If Corporation: Secretary, Assistant Secretary, Chief Financial Officer or Assistant Treasurer)

Agreed and Approved by the City of Cupertino:

Signature

Date

Name/Title

Insurance Forms

Insurance Forms Instructions

For Items 2, 3 and 4, the forms provided by the City of Cupertino must be used. Forms other than these will not be accepted.

All documents must be originals - submit in triplicate.

1. *Certificate of Insurance to the City of Cupertino* - **must** be completed by the insurance agent **or must** provide a certificate on the company's form. They **must** contain the same information.
2. *Endorsement of Additional Insured and Primary Insurance and Notice of Cancellation* - **must** be signed by the insurance agent for general liability and automobile liability only.
3. *Comprehensive General Liability/Commercial General Liability Endorsement of Aggregate Limits of Insurance Per Project* - **must** be signed by the insurance agent for general liability only.
4. *Waiver of Subrogation Endorsement Worker's Compensation Insurance* - **must** be signed by the insurance agent for worker's compensation only.

CERTIFICATE OF INSURANCE TO THE CITY OF CUPERTINO

This certifies to the City of Cupertino that the following described policies have been issued to the insured named below and are in force at this time.

Insured: _____

Address: _____

Description of operations/locations/products insured (show contract name and/or number, if any):

2018 Pavement Maintenance Phase 1, Project Number 2018-101

=====

WORKER'S COMPENSATION

* Statutory Min.

* Employer's
Liability

(name of insurer)

\$ _____ \$ _____ \$ _____

Insurance Company's State License No. _____

=====

Check Policy Type:

Each Occurrence

\$ _____

**COMPREHENSIVE GENERAL
LIABILITY**

[] Premises/Operations

General Aggregate

\$ _____

(if applicable)

[] Owners & Contractors
Protective

Aggregate

\$ _____

[] Contractual for Specific
Contract

Personal Injury

\$ _____

[] Products Liability

[] XCU Hazards

[] Broad Form P.D.

Fire Damage (any one fire)

\$ _____

[] Severability of Interest
Clause

[] Personal Injury with

Medical Expense

\$ _____

Employee Exclusion Removed
or

(any one person)
Self-Insured

COMMERCIAL GENERAL LIABILITY

Retention

\$ _____

(name of insurer)

Policy No. _____

Expiration

Date _____

AUTOMOTIVE/VEHICLE LIABILITY
DAMAGE
Commercial Form
Liability Coverage

BODILY INJURY

PROPERTY

Each Person

Each Accident

\$ _____

\$ _____

Each Accident

(name of insurer)

\$ _____ or

Combined Single Limit

\$ _____

Policy No. _____ Expiration Date _____

=====

BUILDER'S RISK "ALL RISK"

This is to certify that the following policy has been issued by the below-stated company in conformance with the requirements of the project documents and is in force at this time.

(Name of insurer)

Policy No. _____ Expiration Date _____

Limits of Liability: _____ Deductible: _____

(agent's initial)

A copy of all Endorsements to the policy(ies) which in any way limit the above-listed types of coverage are attached to this Certificate of Insurance.

This Certificate of Insurance is not an insurance policy and does not amend, extend or alter the coverage afforded by the policies listed herein. Notwithstanding any requirement, term, or condition of any contract or any other document with respect to which this Certificate of Insurance may be issued or may pertain, the insurance afforded by the policies described herein is subject to all the terms, exclusions and conditions of such policies.

IT IS HEREBY CERTIFIED that the above policy(ies) provide liability insurance as required by the Agreement between the City and the insured.

By: _____
Dated: _____ 20____

Attach Certificate of Insurance and Additional Insured Endorsement on company forms.



**ADDITIONAL INSURED ENDORSEMENT
and
ENDORSEMENT OF PRIMARY INSURANCE
and
NOTICE OF POLICY
CANCELLATION ENDORSEMENT**

Project Title and Number: 2018 Pavement Maintenance Phase 1, Project # 2018-101

In consideration of the policy premium and notwithstanding any inconsistent statement in the policy to which this Endorsement is attached or any other Endorsement attached thereto, it is agreed as follows:

The City of Cupertino ("City") and its directors, officers, engineers, agents and employees, and all public agencies from whom permits will be obtained and their directors, officers, engineers, agents and employees, and the State of California, and its officers, agents and employees, are hereby declared to be additional insureds under the terms of this policy, but only with respect to the operations of the Contractor at or upon any of the premises of the City in connection with the Contract with the City, or acts or omissions of the additional insureds in connection with, but limited to its general supervision or inspection of said operations.

The insurance afforded by this policy is primary insurance, and no additional insurance held or owned by the designated additional insured(s) shall be called upon to cover a loss under said additional policy.

Cancellation Notice. The insurance afforded by this policy shall not be suspended, voided, canceled, reduced in coverage or in limits, or materially altered, except after thirty (30) days' prior written notice by certified mail, return receipt requested, has been given to the City of Cupertino ("City"). Such notice shall be addressed to the City as indicated below.

POLICY INFORMATION

1. Insurance Company: _____
2. Insurance Policy Number: _____
3. Effective Date of this Endorsement: _____ 20____
4. Insured: _____

All notices herein provided to be given by the Insurance Company to the City in connection with this policy and these Endorsements, shall be mailed to or delivered to the City at 10300 Torre Avenue; Cupertino, California 95014.

[Signature on following page.]

I, _____ (print/type name)
warrant that I have authority to bind the below listed Insurance Company and by my signature
hereon do so bind this Company.

Signature of Authorized Representative: _____
(Original signature required on all Endorsements furnished to the City)

Names of
Agent/Agency: _____ Title: _____

Address: _____ Telephone: _____

_____ Facsimile: _____



**COMPREHENSIVE GENERAL LIABILITY
COMMERCIAL GENERAL LIABILITY
ENDORSEMENT OF AGGREGATE LIMITS OF
INSURANCE PER PROJECT**

Project Title and Number: **2018 Pavement Maintenance Phase 1, Project #2018-101**

In consideration of the policy premium and notwithstanding any inconsistent statement in the policy to which this Endorsement is attached or any other Endorsement attached thereto, it is as follows:

This Endorsement modifies the insurance provided under the General Liability Coverage part of the below-referenced policy of insurance.

The general aggregate limit under LIMITS OF INSURANCE applies separately to the project described as

POLICY INFORMATION

1. Insurance Company: _____
2. Insurance Policy Number: _____
3. Effective Date of this Endorsement: _____ 20____
4. Insured: _____
5. Additional Insured: City of Cupertino, its directors, officers, agents and employees.

All notices herein provided to be given by the Insurance Company to the City in connection with this policy and this Endorsement, shall be mailed to or delivered to the City at 10300 Torre Avenue; Cupertino, California 95014.

I, _____ (print/type name)
warrant that I have authority to bind the below listed Insurance Company and by my signature hereon do so bind this Company.

Signature of Authorized Representative: _____
(Original signature required on all Endorsements furnished to the City)

Names of
Agent/Agency: _____
Title: _____
Address: _____

Telephone: _____
Facsimile: _____



**WAIVER OF SUBROGATION ENDORSEMENT
WORKER'S COMPENSATION INSURANCE**

Project Title and Number: **2018 Pavement Maintenance Phase 1, Project # 2018-101**

In consideration of the policy premium and notwithstanding any inconsistent statement in the policy to which this Endorsement is attached or any other Endorsement attached thereto, it is agreed as follows:

It is agreed that with respect to such insurance as is afforded by the policy, the Insurance Company waives any right of subrogation against the City of Cupertino, and each of its directors, officers, agents, consultants and employees by reason of any payment made on account of injury, including death resulting therefrom, sustained by any employee of the insured, arising out of the performance of the above-referenced Contract.

POLICY INFORMATION

1. Insurance Company: _____
2. Insurance Policy Number: _____
3. Effective Date of this Endorsement: _____ 20____
4. Insured: _____

All notices herein provided to be given by the Insurance Company to the City in connection with this policy and this Endorsement, shall be mailed to or delivered to the City at 10300 Torre Avenue; Cupertino, California 95014.

I, _____ (print/type name)
warrant that I have authority to bind the below listed Insurance Company and by my signature hereon do so bind this Company.

Signature of Authorized Representative: _____
(Original signature required on all Endorsements furnished to the City)

Names of
Agent/Agency: _____ Title: _____

Address: _____ Telephone: _____

_____ Facsimile: _____

END OF DOCUMENT

TECHNICAL SPECIFICATIONS

1. TRAFFIC CONTROL (Bid Item Number 1)

a. Item Requirement

Contractor shall furnish all necessary supervision, labor, materials, construction tools and equipment, supplies to complete traffic control at each location during the times immediately prior, during and after work.

b. Scope

Construction area signs shall be furnished, installed, and removed when no longer required. The Contractor's attention is directed to Section 7-1.08, "Public Convenience", Section 7-1.09, "Public Safety", and Section 12, "Construction Area Traffic Control Devices", of the Caltrans Standard Specifications and Section 00820 Traffic Control Requirements of these specifications.

All traffic control devices shall conform to the latest "Manual of Traffic Control for Construction and Maintenance Work Zones" issued by Caltrans.

(a) Advance construction warning signs shall be placed on all streets leading into the construction area before any construction is started.

(b) Speed limit advisories may be placed along the main traffic lanes.

(c) When detours or changes in traffic lanes are required, directional signs shall be placed at each end and along the road

(d) Warning signs, caution signs, and end construction signs, shall be placed at each end of the work and along the route when conditions warrant their use.

(e) When asphalt keycuts remove any portion of a bike lane, warning signs including bike lane closed ahead, uneven pavement, and share the road signs shall be placed to provide advanced warning to bicyclists. The signs shall remain in place until final paving is complete and bike lane striping is replaced.

The Contractor shall submit a detailed traffic control plan for all work that requires lane closures at least 5 days prior to the lane closure. No lane closure will be allowed without prior approved traffic control plan specific to that location.

The Contractor is responsible for proper placement and maintenance of all signs and barricades. Any additional signs, barricades, lights, etc.,

that may be required by the Engineer to ensure public safety shall be installed and maintained by the Contractor.

Note: Traffic Controls – Qualified Individual: Traffic controls through the construction zone shall be designed and maintained by a designated individual qualified in this responsibility. **The Contractor shall submit the traffic control plan and have an approved traffic control plan prior to commencing work. Traffic control shall be planned for each individual lane closure with detail layouts of all signage locations. For all other locations, Contractor shall provide traffic control plan indicating each specific street(s) to be worked on a daily basis and warning signage to be placed on adjacent streets to warn public of work areas.**

If required in the traffic control plan, and always during one way traffic control, flagmen will be required to direct traffic during construction. The number and location of flagmen shall be sufficient to allow safe control and passage of traffic through the work zone. During the paving of intersections, two flagmen shall be posted at each intersection for the entire time between tack coat and finish rolling.

If a cross street needs to be temporarily closed when work is in progress through the intersection and the anticipated delay is more than five minutes, a detour sign shall be installed on the cross street and shall include the installation of advance signing displaying the anticipated delay time. The signing shall be reviewed by the Traffic Engineer.

Contractor shall supply **two (2)** programmable message boards per arterial / collector street a minimum of one week in advance of any work at designated locations as advanced information signs. The message shall be pre-approved by the Engineer prior to programming.

The term “Construction Area Signs” shall include all temporary signs required for the direction of public traffic through or around the work during construction. Such signs are shown in or referred to in the current MANUAL OF TRAFFIC CONTROLS – Warning signs, Lights and Devices for Use in Performance of Work Upon Highways, published by the State of California, Department of Transportation, hereinafter referred to as MANUAL OF TRAFFIC CONTROLS.

Restrictions on Closure of Traffic Lanes

The streets shall be open for use by public traffic on Saturday, Sunday, and any day designated by the City as a legal holiday; before 8 a.m. and after 5 p.m., Monday thru Friday, or any day preceding a designated legal holiday; and when construction operations are not actively in progress on working days. During daily construction operations, there may be certain peak traffic hours that would require the Contractor to alter the construction schedule in order to minimize the impact of the work on the public's convenience.

The following provisions shall apply on the listed street segments:

Street	Special Traffic Control Provision
<u>Arterials:</u>	Lane closures are limited to one lane at a time . The roadway shall be open for two-way traffic at all times.
<u>Other Collectors:</u> Bubb Rd, S Tantau Ave, Bandlely Dr.	On four lane streets, one lane in each direction shall be maintained at all times. On two lane streets, flagmen shall be used to maintain traffic flow.
<u>Streets Near Schools:</u> See Attachment A	Work will be limited to days when school is out of session, (June 8, 2018 – August 11, 2018
<u>Residential:</u>	Traffic may be limited to only local traffic during the period between 8 a.m. and 5 p.m. Hauling of equipment and materials is prohibited with 500' of any school between the hours of 7:00 AM and 9:30 AM and 2:00 PM and 4:00 PM. Contractor is responsible for identifying locations of schools and planning haul route accordingly.

Refer to “Attachment A” – Work Hour Restrictions for working hour requirements for each street or street category.

Attention is directed to Sections 7-1.08, “Public Convenience,” 7-1.09, “Public Safety,” and 12, “Construction Area Traffic Control Devices,” of the State Standards and to the Section entitled “Public Safety” and flagging for traffic control systems elsewhere in these technical specifications. Nothing in these technical specifications shall be construed as relieving the Contractor from his responsibility as provided in said Section 7-1.09.

Lane closures shall conform to the provisions in the section of these special provisions entitled “Traffic Control for Lane Closure.”

Personal vehicles of the Contractor’s employees shall not be parked on the traveled way or shoulders, including any section closed to public traffic.

The Contractor shall notify local authorities of his intent to begin work at least 7 calendar days before work is begun. The Contractor shall cooperate with local authorities relative to handling traffic through the area and shall make his own arrangements relative to keeping the working area clear of parked vehicles.

Whenever vehicles or equipment are parked on the shoulder within 6 feet of a traffic lane, the shoulder area shall be closed with fluorescent traffic cones or portable delineators placed on a taper in advance of the parked vehicles or equipment and along the edge of the pavement at 25-foot intervals to a point not less than 25 feet past the last vehicle or piece of equipment. A minimum of 9 cones or portable delineators shall be used for the taper. A C23 (Road Work Ahead) or C24 (Shoulder Work Ahead) sign shall be mounted on a telescoping flag tree with flags. The flag tree shall be placed where directed by Engineer.

In order to minimize the impact on local merchants, and residents, driveways shall not be blocked for any long periods of time. The Contractor shall maintain access to all driveways before and after road material is placed. The Contractor shall limit the time between the prep time placing and curing time of the asphalt material and cleanup so that vehicles may return the roadway to use.

The full width of the traveled way shall be open for use by public traffic on weekends, designated legal holidays, and when construction operations are not actively in progress.

Minor deviations from the requirements of this section concerning hours of work which do not significantly change the cost of the work may be permitted upon the written request of the Contractor if in the opinions of the Engineer public traffic will be better served and the work expedited. Such deviations shall not be adopted until the Engineer has indicated his written approval. All other modifications will be made by contract change orders.

A traffic control system shall consist of closing traffic lanes in accordance with the provisions of Section 12, "Construction Area Traffic Control Devices," of the State Standards, the provisions under "Maintaining Traffic" elsewhere in these technical specifications.

The provisions in this section will not relieve the Contractor from his responsibility to provide such additional devices or take such measures as may be necessary to comply with the provisions in Section 7-1.09, "Public Safety," of the State Standards.

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

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 the traveled way, shall be removed from the traveled way, shoulder and auxiliary lanes.

c. Measurement & Payment

The contract lump sum price paid for Traffic Control shall include full compensation for furnishing all labor including flagging costs, materials (including signs), tools, equipment and incidentals, and for doing all the work involved in placing, removing, storing, maintaining, moving to new locations, replacing and disposing of the components of the traffic control system and preparing required traffic control plans, as specified in the State Standards and these technical specifications, and as directed by the Engineer.

2. HOT MIX ASPHALT TYPE A(Bid Item Numbers 2- 3)

a. Item Requirement

Work to be performed under this Section covers all labor, materials, tools, equipment, transportation, and incidentals necessary to construct HMA including leveling, overlay, pavement replacement, transitions and digouts.

All such work shall conform to the applicable provisions of the State of California, Department of Transportation, Standard Specifications (Caltrans) dated 2010; these Technical Specifications; and the plans and typical sections.

b. Scope

All asphalt concrete materials shall be as specified in Section 39, "Hot Mix Asphalt", of the Standard Specifications; these Technical Provisions; and the plans and typical sections.

Mix Types

Generally, the hot mix asphalt to be used will be as follows unless modified by the Engineer:

Base Courses: 3/4 inch, Type A HMA, for base courses greater than 2-1/2 inches (0.20 feet or 65 mm).

1/2 inch Type A HMA for base courses of 2-1/2 inches (0.20 feet or 65 mm) or less.

Leveling Courses: No. 4, Type A HMA for leveling courses of 1 inch (0.06 feet or 19 mm) or less. 3/8 inch Type A HMA, for leveling courses greater than 1 inch (0.06 feet or 19 mm)-

Surface Courses: 1/2 inch, Type A HMA, for surface courses of 2-1/2 inches (0.20 feet or 65 mm) or less on residential minor collectors; surface courses less than 2 inches (0.17 feet or 50 mm) on collectors and arterials; and on all alleyways and parking lots.

3/4 inch Type A HMA for surface courses greater than 2 inches (0.17 feet or 50 mm) on collectors and arterials. At the Contractors option, 1/2- inch Type A HMA may be used for these courses.

Binder Type

The asphalt grade shall be PG 64-16 and shall conform to Subsection 92 of the Standard Specifications.

Tack Coat

Tack coat shall be utilized and will be emulsified asphalt Grade RS-1, RS-1h, SS-1, or SS-1h and shall conform to Section 94, 'Asphaltic Emulsions', of the Standard Specifications.

Contractor-Supplied Job Mix Formula (JMF)

The contractor will be required to furnish the Engineer with a JMF for each type of asphalt concrete to be used on the project. The JMF shall include a list of material sources and a Certificate of Compliance signed by the material supplier or his representative indicating that the materials to be incorporated in the work fulfill the requirements of these specifications. This submission will be provided fifteen calendar days or ten working days prior to the start of work. If requested, the contractor will also provide aggregate and binder samples or a plant produced mix sample for mix design verification. The mix designs shall be prepared by laboratories and personnel with current Caltrans or AASHTO certification.

The asphalt concrete mixtures shall conform to all of the provisions of the revised Section 39 of the Standard Specifications and to the following requirements:

For arterial and collector streets the asphalt concrete air void content shall be between 4% minimum and 5% maximum and the S-value shall be 37 or greater.

For residential streets and collectors the asphalt concrete air void content shall be between 3% minimum and 4.0% maximum and the S-value shall be 35 or greater.

As a minimum, the mix design shall indicate the percentage passing for each specified sieve, the percent of asphalt, the laboratory compacted unit weight, the theoretical unit weight (Rice Gravity), and the stability of the mix to be used for each asphalt concrete mixture to be incorporated on the project. The mix design, with allowable tolerance for a single test, shall be used for job control.

Delivery Tickets

Each delivery ticket shall include information on the material type, binder type, oil content, and the mix design number. Material delivered to the project without such annotations shall be subject to rejection.

CONSTRUCTION

Surface Preparation

The work shall consist of preparing the existing street surfaces prior to the commencement of paving. Such work shall include removing raised pavement markers, removing surface mounted concrete centerline dividers where applicable, removing thermoplastic traffic markings and legends, controlling nuisance water, sweeping, watering, and removing loose and broken asphalt concrete pavement and foreign material as specified in the Standard Specifications and these Technical Specifications, and as directed by the Engineer.

Prime Coat

No prime coat is required.

Tack Coat

Tack coat shall be applied to all existing asphalt concrete or Portland cement concrete surface to be paved over. The tack coat shall conform to the requirements in Section 39 of the Standard Specifications.

All vertical edges to be paved against shall be tack coated. These include, but are not limited to, curb faces, gutter lips, swale edges, cross gutter edges, and asphalt concrete edges. Vertical edges shall be tack coated by hand wand or manually by brush. The tack coat application shall not extend above the level of the finished surface by more than 1 inch. Gutter pans and curb faces not to be tack coated shall be protected by shields or other methods. An overspray beyond the one inch shall be removed by means approved by the Engineer.

Existing curb faces and driveways shall be protected against disfigurement from the asphalt. Residue of the material shall be removed from curb faces and driveways by sandblasting to the extent required by the Engineer.

The CONTRACTOR shall be responsible for cleaning tack coat tracked onto decorative concrete crosswalks and thermoplastic legends and crossbars within the project limits and along truck haul routes used by the CONTRACTOR or his SUBCONTRACTORS. All haul routes for the work shall be designated. The haul routes shall be inspected by the City and CONTRACTOR prior to initiating work to photographically establish the existing conditions. Within 10 calendar days of completion of final paving, the City and CONTRACTOR shall reinspect the haul routes to determine the extent and locations of required cleaning. Cleaning shall be performed within 10 calendar days after the City delivers a written copy of the locations of required cleaning. Failure to meet this schedule, whether to reinspect or to perform cleaning, shall subject the CONTRACTOR to a liquidated damage of \$100 per calendar day per locations

Cold Joints

All cold joints, both longitudinal and transverse, shall be heated with a torch immediately prior to paving. Cold joints include previous passes placed more than three hours prior. All cold joints shall be tack coated.

Leveling, Transitions, and Asphalt Concrete Fills

A leveling course of variable thickness shall be placed and compacted prior to placing the surface course at locations where directed by the Engineer. The leveling course will be used to correct pavement irregularities such as rutting, variable cross slope, or variable longitudinal slope. Where two overlays of different thickness abut at a longitudinal joint, the Contractor shall add to the thinner section to match the thicker lift and provide a smooth transition and uniform cross-fall. Cold planing ridges or other rises in the pavement surface may be required by the Engineer. The Engineer will determine the exact limits and thickness of the leveling courses, asphalt concrete fills, and transitions.

Layout

The contractor shall layout and mark the location of the edges of the paving passes of the surface course to match the new layout of the lane lines. The layout shall be made at least 24 hours prior to paving. The layout shall be approved by the Engineer prior to paving.

If the striping is to remain unchanged, the edges of the paving passes shall conform to existing lane edges.

In all cases where practical, each lane shall be paved in a single pass. In tapered transition areas, the shoulder areas shall be paved first, then the through lane shall be hotlapped immediately after the shoulder paving.

For paving which incorporates new quarterpoints or gradebreaks due to keycuts or other conditions, the contractor shall provide equipment capable of adjusting to the new surface profile at the appropriate locations. The profile adjustments shall be within twelve inches of the actual quarterpoint or gradebreak.

The contractor shall take sufficient measurements during laydown to assure that the full design asphalt concrete layer depth is provided at each quarterpoint, gradebreak, and transition. Failure to provide the design depth at these areas will result in rejection of the work. Correction of this rejected work will include milling out the new asphalt concrete from the road edge to the centerline or nearest inside lane line and repaving. The minimum length of the milled and corrected area shall be fifty feet.

Asphalt Depth

Asphalt thicknesses for arterial dig outs are 9 inches, collector dig outs are 6 inches, residential dig outs are 4 inches, cold planed fills are 4 inches, residential overlays are 2 inches, residential leveling (followed by an

overlay) are ½ inch and residential leveling (not followed by an overlay) are 1 inch.

Asphalt Dig Out – Safety

Final lift shall be in place within 72 hours of removing asphalt dig outs. Once the pavement is removed in asphalt removal and replacement areas, the Contractor shall diligently prosecute the work so that the deep lift is in place within the same working day. At no time shall there be a drop off greater than 0.1' (one-tenth of a foot) in the pavement overnight. No unnecessary delays shall be tolerated. By way of ascertaining and fixing the amount of damages, and not by way of penalty, the Contractor shall pay the City the sum of three hundred dollars (\$300) per calendar day, for each excavated area that remains incomplete beyond the two calendar (2) day limit. Day one starts upon the initial removal. All liquidated damages in this Contract are cumulative.

Tolerances

The finished asphalt concrete surface shall be flush with, to 1/4 inch (0.20 feet or 6 mm) above, the gutter lips. The finished pavement surface shall not be lower than the gutter lips. The completed paving shall meet the following thickness tolerances:

Digouts: +/- 0.04 feet (12.5 mm)

Leveling Courses: Average Depth +/- 0.02 feet (6 mm)

Surface Courses: Minimum Depth: 0.12 feet (50 mm), /Average Depth shall equal design depth. (Contractor shall be within 5% of computed tonnage using the product of the measured area, design depth and average compacted unit weight in place.

Rolling and Compaction

Compaction of all surface courses 0.15 feet (1.75 inches) and digouts shall comply with the Standard Process density requirements.

For leveling courses under, breakdown rolling shall consist of a single pass of a 8 ton (minimum) steel wheel roller, three coverages with a pneumatic roller followed by a finishing coverage with a steel wheel roller. Pneumatic rollers shall weigh between 8 and 12 tons and shall be equipped with side skirts to hold in heat.

In lieu of the core testing indicated in the revised specifications referenced above, the following shall apply: The compaction shall be computed for each lot, with a maximum lot size of 500 tons. Each street segment of less than 500 tons shall be its own unique lot. Core density/nuclear gauge shall be done per CTM 375, 'Determining the In-Place Density and Relative Compaction of Asphalt Concrete Pavement'. The average asphalt concrete density of each lot shall be between 92.5% and 96.0% of Maximum Theoretical Density. Individual test sites shall be between 91.0% and 97.0% of Maximum Theoretical Density. Core/nuclear densities shall be taken at a rate of no fewer than one core per 50 tons of mix. If compaction fails by nuclear methods, then core density/nuclear gauge

correlation and/or core densities shall be used to establish compaction.

When core density is used to determine compaction, cores that fall between 91.0% and 97.0% of Maximum Theoretical Density shall be paid for by the owner. Failing cores shall be paid for by the Contractor. If the core density testing produces both passing and failing cores, the cost will be prorated between the owner and Contractor.

Compaction failing to meet the above criteria shall be subject to the payment reductions indicated in Section 39-2.03, "Reduced Payment Factors for percent of Maximum Theoretical Density and the payment shall apply to each 500 ton lot: The deductions shall be based on the average of the lot and/or reductions for individual test locations.

c. Measurement & Payment

Payment for each bid item shall be by the ton and shall include full compensation for furnishing all labor, materials, tools, equipment, transportation, incidentals; and for doing all of the work involved in constructing asphalt concrete pavement, tack coat, complete as detailed and as specified in these Technical Specifications.

3. PAVEMENT FABRIC / PAVEMENT MAT (Bid Item Number 4)

a. Item Requirement

The work shall consist of providing and installing pavement fabric or pavement mat prior to final paving course. All such work shall conform to the applicable provisions of the State of California, Department of Transportation, Standard Specifications (Caltrans) dated 2010; these Technical Specifications; and the plans and typical sections

b. Scope

MATERIALS

Pavement Fabrics

Pavement fabrics approved for use are: Amoco 4598, Trevira 011/200, Mirafi Mirapave 500, Linq AOH, or equivalent as approved by the Engineer.

The tack coat shall be emulsified asphalt of grades RS1, RS2, SS1, or SS1h, conforming to Section 94, 'Asphaltic Emulsions', of the Standard Specifications. Tack coat for Pavement Fabrics shall be either PG64-10 or PG 70-10.

CONSTRUCTION

Preparation

The Contractor shall prepare the asphalt concrete surface by removing all extraneous materials including dirt, clay, soil, vegetation, weeds, and loose aggregate.

The surface shall be dry prior to, during, and after installation of tack coat and fabric. Wet fabric shall be dried prior to placement of asphalt concrete.

Tack Coat

Tack coat shall be between 300 and 375 degrees Fahrenheit when applied, and will be applied at a rate of 0.25 to 0.30 gallons per square yard as directed by the Engineer. Tack coat spills or drools from the spray truck shall be heated and removed. Excess tack coat shall be covered with No. 30 sand.

Tack coat shall be allowed to cool to 200 degrees Fahrenheit or less prior to the placement of fabric.

The tack coat for cold planed areas shall be double that of the existing pavement or leveling courses. The cold planed areas shall be tack coated first and then recoated when the entire pavement is tack coated.

Fabric Installation

Fabric laps shall be two minimum to four inches maximum. The fabric shall be installed a maximum of 12 inches from the curb or gutter lip. The Contractor shall either provide a combination of roll widths to meet this requirement or shall hand trim the fabric during installation.

In Cul de Sacs, the fabric shall be hand laid in the bulbs parallel to the centerline and trimmed to be no more than 12 inches from the gutter lip. For hand laid areas, the fabric shall be completely hand broomed to seat the fabric. If the fabric is not completely seated, the fabric shall be rolled with a pneumatic roller prior to paving. On returns at cross streets, the fabric shall be laid in the full return and trimmed such that it is within 12 inches of the curb and laps do not exceed 4 inches.

Where the fabric is placed over new pavement which extends the full width of the pavement, it shall lap over new asphalt concrete a minimum of twelve inches. This does not apply to digouts.

If the pavement configuration requires that the fabric be laid manually, the fabric shall be placed in increments of thirty feet or less.

Pavement fabric shall be placed with a minimum of wrinkles. If the girth wrinkle is 1/2 inch or more, cut the wrinkle and apply additional tack coat and sand blotter if necessary. The presence of more than a few wrinkles shall be cause for rejecting the fabric installation. Rejected areas of fabric shall be relaid and seated with a pneumatic roller without additional tack coat.

Installed fabric is to be protected from damage by trucks, the paving machine, and other construction equipment.

Small quantities of sand or asphalt concrete may be spread to protect the fabric during installation.

Payment shall be measured per square yard and as marked in the field by the Engineer. The fabric quantity shall be measured only the fabric covered area not including overlaps. Roll counts shall not be a basis of payment.

The contract unit cost shall be considered full compensation for furnishing all labor, materials, tools, equipment, transportation, and incidentals; and for performing all of the work involved as detailed in the Standard Specifications, these Technical Specifications, and typical sections. No additional compensation will be allowed therefore.

4. ASPHALT KEYCUT (Bid Item Number 5-6)

a. Item Requirement

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.

b. Scope

Asphalt shall be keycut prior to AC overlay. Keycut type A shall consist of longitudinal wedge cut of 0.17' by 6' (minimum). Keycut type B shall consist of a traverse wedge cut of .17' by 12 feet (minimum). The locations to key cut include, but are not limited to, any which abut any permanent structures such as curbs, concrete curbs, sidewalks, driveways, concrete slabs, speed bumps and catch basins. All other utilities such as manholes and water valves shall be raised. Grinding shall be in conformance with Section 42-2 of the Standard Specifications. Any sections of asphalt that becomes loose after keycutting shall be removed and recycled by the Contractor at the Contractor's expense.

Conform grinding will be necessary at the beginning and ending of each street section such that the final asphalt surface provides a smooth transition to the adjacent existing surface. Conform grinding shall be fifteen feet (15') wide.

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. If wedge cuts extend into a bike lane, the contractor shall close the bike lane and

place advanced warning signs in conformance with the California MUTCD.

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. The same method shall be used on all structures that are left above the traveled asphalt surface.

Key cuts shall include the removal of excess asphalt concrete materials or slurry seals on the surface of gutters, cross gutters or other concrete surface which abut the pavement surface. The asphalt concrete or slurry materials shall be removed by methods which do not damage, stain or chip the existing concrete surfaces. Heating with a torch and scraping with hand tools such as shovels is acceptable.

Schedule

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

c. Measurement & Payment

Asphalt keycut shall be measured by the lineal foot 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. The contract unit prices paid for asphalt keycut shall include 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 the removal of excess materials from the gutter or other concrete surfaces.

5. ASPHALT REMOVAL – DIG OUT (Bid Item Numbers 7)

a. Item Requirement

Contractor shall furnish all necessary supervision, labor, materials, construction tools and equipment, supplies to complete asphalt removal and proper disposal, at bid item depths, at each location marked by the Engineer.

b. Scope

Areas designated by the Engineer shall be removed by asphalt milling to a depth of 6 inches at locations marked by the Engineer.

Failed pavement to be removed is to be ground with an asphalt grinder to the limits marked and to the depth required of the area removed.

The Contractor shall make all arrangements for disposal of excavated materials. Excavated materials will contain asphalt concrete and may contain paving fabric. The Contractor shall lawfully dispose of the removed

material off the project limits. All grinding materials, where practical, are to be loaded directly in to trucks, stockpiling of materials onsite for any time length is not allowed. Disposal shall be the responsibility of the Contractor and is considered incidental to this bid item. The location of the disposal site must be approved by the Engineer.

The material remaining in place, after removing surfacing and in some circumstances, base to the required depth, shall be graded to a plane, watered, and compacted to 95 percent relative compaction. After compaction and prior to the placing of asphalt concrete, the vertical edges of the existing pavement shall receive a tack coat. Tack coat shall be SS-1 type using penetration grade 100-200 liquid asphalt base applied at the rate of 0.10 gallons per square yard, unless otherwise directed by the Engineer. The finished surface of the remaining material shall not extend above the grade established by the Engineer.

Unsuitable Material - In the event that the underlying subbase material is unsuitable, it shall be excavated below the depth required above and disposed of. The limits of removal shall be designated by the Engineer and shall be in one-inch increments. Compensation shall be at a per inch price based on the bid for a 6 inch deep asphalt digout divided by 6 for each additional inch of depth.

Unsuitable material is defined as material the Engineer determines to be:

- a. Of such unstable nature as to be incapable of being compacted to specified density using ordinary methods at optimum moisture content; or
- b. Too wet to be properly compacted and circumstances prevent suitable in-place drying prior to incorporation into the work; or
- c. Otherwise unsuitable for the planned use.

Locations of asphalt to be removed have been field marked. Any existing improvements damaged by the Contractor's asphalt digout operation shall be replaced at the Contractor's sole expense.

c. Measurement & Payment

Measurement and Payment: "Asphalt Removal – Digout 6 inches shall be measured by the square yard 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. The contract unit prices paid for "Asphalt Removal – Digout 6 inches shall include full compensation for furnishing all labor, material, equipment, tools, sweeping, 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.

6. ADJUST UTILITY IRON (Bid Item Numbers 8-13)

a. Item Requirement

This work shall consist of raising or adjusting existing utility facilities such as manholes, valve boxes, sewer clean-outs, monument boxes, and monitoring well covers to the finish grade of the resurfaced asphalt pavement.

Facilities located in areas to be cold planed or keycut shall be lowered first and then adjusted to finish grade after completion of the resurfacing work. At various locations a monument box and cover shall be installed at finish grade over any unprotected, existing monument in the paved roadway.

All such work shall conform to the applicable provisions of the State of California, Department of Transportation, Standard Specifications (Caltrans) dated 2010; these Technical Provisions; typical sections; and as directed by the Engineer.

b. Scope

CONSTRUCTION

Notification

Non-city owned utilities exist within the limits of construction and may be included in the quantity for adjusting utility covers to grade as part of this contract. If this work is included, the Contractor shall be responsible for contacting owners of non-city owned utilities seven (7) days prior to beginning the resurfacing work to inform them of the construction schedule. Non-city owned utilities may include, but not be limited to, San Jose Water Company, California Water Company, Cupertino Sanitary District, Sunnyvale Sanitary District, PG & E, and Pacific Bell/AT&T.

Preparation

The Contractor shall properly locate and tie all existing facilities to be raised in advance of paving operations. Each facility is to have a minimum of two tie off points. A copy of all utility cover tie-down measurements for each utility cover on each street in the project shall be supplied to the City representative prior to the commencement of any resurfacing work.

Protection of Facilities

Prior to lowering operations, sanitary and storm systems shall be protected by plywood covers. Plywood covers shall be a minimum of ½" thick, cut to fit the inside of the manhole, and remain in the manhole until all work is complete. Other facilities are to commensurately be protected from falling debris.

Care shall be taken to keep frames and covers clean. The Contractor shall completely protect with heavy plastic or other suitable material all utility covers or other items which are visible on the surface and will be covered by his operations. This shall be completed prior to the start of operations and approved by the Engineer. Any materials that adhere to the frames and covers shall be removed.

Temporary Patching

On streets to be cold planed or keycut, all utility covers within the planing limit shall be lowered prior to milling.

Lowered utility lids shall be temporarily patched using a cold-patch asphaltic material. Patches shall be made to be flush with the adjacent pavement surface.

Contractor shall keep on hand sufficient patching material to continuously maintain all patches and correct any which shift or otherwise deteriorate prior to milling. Shifted or dislodged patches which constitute a drop of .10 feet or greater shall be repaired in the same day that the problem is brought to the Contractor's attention.

Adjustment

Facilities damaged by the Contractor shall be replaced at the Contractor's expense. Facilities (box and lid or frame and cover) found existing in a damaged condition, and reported to the Engineer before disturbing, shall be replaced by the Contractor with materials furnished by the Owner.

Tolerances

The concrete around adjusted facilities shall be left 1-1/2 inches lower than the adjacent pavement. The concrete surface shall be tack coated with 0.10 gallons per square yard and paved with 3/8 inch Type A HMA. Immediately after placement, the surface shall be sand sealed. Excessive sand on the surface after sealing shall be removed by the Contractor, as directed by the City Engineer.

The surface of the adjusted facilities shall be true to the new pavement surface to within 1/8 inch deviation. This tolerance shall apply in a single direction only, either up or down. In addition, the adjusted facility shall not vary to the high tolerance on one side and the low tolerance on the other (i.e. the total aggregate tolerance on both sides shall be limited to the 1/8 inch variation). This variation shall apply to the adjacent patch paving around the facility as well, such that neither the paving nor facility vary by more than the stated tolerances.

Schedule

All facilities shall be adjusted to finish grade within 72 hours after the placement of the final surface paving on each individual street segment. If several lifts of pavement are to be placed, the facilities shall be raised if the paving operation ceases for more than 72 hours.

Survey Monuments

Prior to work, contractor shall locate buried monuments using a metal detector. Where new survey monument boxes and covers are required, the Contractor shall perform the installation without disturbing the location of the monument. If the monument is disturbed the Contractor will be responsible for re-establishing it as a monument in accordance with State laws. The work for placement of the box and cover over an existing monument will include removal and replacement of the asphalt concrete around the monument.

Monitoring Wells

Where monitoring wells are to be overlayed, the location of the wells shall be marked on the curbs. A site sketch shall be provided to the city indicating the location and distances on the monitoring wells relative to the curb markings five days prior to paving. If the monitoring wells have frames and covers, the frames and covers shall be adjusted as part of this work and paid for as a valve cover.

c. Measurement & Payment

Lowering facilities shall be measured and paid for by each unit as designated in the contract Bid Schedule. Raising or adjusting facilities to finish grade shall be measured and paid for by each unit designated in the contract Bid Schedule. All quantities will be determined from actual counts. The unit costs shall govern regardless of the method used to make the adjustments.

The above contract unit costs shall be considered full compensation for furnishing all labor, materials, tools, equipment, transportation, and incidentals; and for performing all of the work involved as detailed in the Standard Specifications, these Technical Specifications, and the plans and typical sections. No additional compensation will be allowed.

Failure to adjust utility facilities within 72 hours after placement of the surface course shall result in at liquidated damage of \$250 per facility location per calendar day.

7. ASPHALT STRIPING / MESSAGES & MARKERS (Bid Item Numbers 14-41)

a. Item Requirement

The Contractor shall furnish and apply traffic stripes, characters, arrows, pavement markers, and other delineations and markings. These shall be reapplied in the original pattern on all roads except as directed by the Traffic Engineer. Additional striping changes may be requested by the Traffic Engineer. Contractor shall install traffic striping and markers in accordance with Sections 84 and 85, 'Traffic Stripes and Pavement Markings' and 'Pavement Markers' and the most recent version of the California MUTCD. All striping details shall conform to Caltrans Standard Plans, latest addition. All pavement Markers and Traffic Lines shall conform to details as revised July 21, 2017 or latest revision.

All pavement legends and traffic striping shall be applied in thermoplastic unless otherwise noted.

Temporary pavement marking materials must be on hand prior to the covering or demolition of existing pavement markings.

b. Scope

MATERIALS

Pavement Delineation- Thermoplastic

Thermoplastic material shall be extruded thermoplastic meeting the requirements of Section 84-2 and specifically Section 84-2.03B Extruded Thermoplastic or City approved equivalent. Placement shall be performed as directed by the manufacturer.

Legends and arrows shall be pre-formed thermoplastic pavement markings and shall be Ennis Flint Premark or a City approved equivalent. Placement shall be performed as directed by the manufacturer.

Pavement Delineation- Pavement Markers

Raised and reflective pavement markers shall comply with Section 85 of the Standard Specifications. The specific type to be used shall be consistent with the type generally in use within the local jurisdiction unless directed otherwise by the Engineer.

Preformed Thermoplastic Green Bike Lane including bike symbols, legends and arrows.

Green bike lanes shall be preformed thermoplastic pavement markings and shall be Premark ViziGrip Skid/Slip Resistant (90 mil) or a City approved equivalent. Bike symbols, legends, and arrows within green bike lanes and shall be Premark ViziGrip (90 mil) or a City approved equivalent. Placement shall be performed as required by the manufacturer's specifications.

Bike symbols, legends, and arrows in green bike lanes must be factory assembled with the green marking sheet and interconnected so that in the field it is unnecessary to assemble the individual pieces within a material segment.

The green bike lanes shall be pre-formed thermoplastic pavement marking sheets utilizing light green color that meets FHWA specifications for color.

A sealer specified by the manufacturer must be applied to the substrate asphalt and concrete to ensure proper adhesion.

Preformed green marking sheets shall be installed first before the 6" white liquid thermoplastic bicycle lane line. Pre-formed sheets shall be laid out and applied so that edges of adjacent sheets fit snugly together, the pattern of the marking aligns properly from sheet to sheet, and to prevent overlap of adjacent sheets.

First time applicators shall contact the pre-formed thermoplastic pavement marking supplier for product support and on-site training.

CONSTRUCTION

All construction shall conform to the respective provisions of the Standard Specifications, manufacturer's installation requirements, and these Technical Specifications.

Existing Striping and Markings

In areas adjacent to the pavement resurfacing or striping enhancements, where existing striping must be changed to conform to a revised striping pattern, conflicting striping shall be removed by sand blasting, grinding, or other methods as specified in the Standard Specifications or by the Engineer.

The Contractor shall replace all striping which has been damaged or obliterated by or during the work. This may include striping replacement completely across the street even in the event that the Contractor's work may not extend that far. Both lines of each crosswalk shall be completely repainted even if only a portion of a line has been obliterated.

Layout for Temporary and Permanent Striping

The alignment and layout of traffic stripes shall conform to the Standard Specifications.

The Contractor shall perform all tie downs, layout, alignment, and spotting. Contractor shall submit a plan documenting location, dimensions, and Caltrans Standard Detail reference number or other applicable detail for all existing pavement striping, markings, markers and legends. The plan shall contain sufficient detail for installation of new thermoplastic and markers. The plans shall be submitted prior to the pre-construction meeting and shall be approved by the Engineer prior to the issuance of Notice to Proceed. The Engineer or his/her designee shall review and approve striping layout prior to final striping.

The Contractor shall physically tie down the location of the beginning and ending of each paint or thermoplastic marking type in the adjacent curb top. The marking location shall not exceed fifty square inches each. Any locations exceeding this limit shall be removed by the Contractor prior to acceptance of the work. The Contractor shall contact the City Traffic Division for review of tie downs.

The Contractor shall be responsible for accurately referencing out and replacing the lines and positions of all traffic lines, directional lines, arrows, and other markings in accordance with either prior existing striping/message layout or by revised striping plans provided by the Engineer by cat tracking with painted marks. This shall occur no later than two hours after the final surface course paving operation.

Cat tracking shall consist of stretching a rope on a straight line between control points on tangent alignment and on a true arc through control points on curved alignment and placing spots of paint along the rope. Temporary tab markers shall be placed not more than twelve feet apart on curves nor more than twenty-four feet apart on straight segments.

Temporary tab markers shall be the same color as the traffic stripe that they are replacing, shall measure two inches tall by 3-1/2 inches wide, and have a reflective lens across the width of the marker.

Application of cat tracking and/or placement of temporary tab markers are to occur immediately upon completion of final compaction rolling and prior to opening asphalt areas to traffic. All crosswalks, stop bars and directional arrows, both yellow and white in color, shall be placed immediately upon completion of final compaction rolling and prior to opening asphalt areas to traffic. Cat tracking shall be complete and ready for City review by the sixth calendar day following paving. Failure to comply with these requirements shall result in a liquidated damage of \$500 per day for each street that has not received temporary installation of the tab markers, traffic striping, and other markings or completion of cat tracking. All liquidated damages in this Contract are cumulative.

Prior to application of permanent striping and markers, the Contractor shall call for review and approval of the proposed striping by the Engineer or his/her designee. The City shall have the right to make changes in the location and alignment of line stripes. Striping and traffic markings shall not be applied until approval is granted by the Engineer or his/her designee. The Contractor shall allow a minimum of seven working days for review of the layout by the City.

Crosswalks

In some instances, portions of new crosswalks will extend beyond limit of pavement rehabilitation work. In these instances, the existing 12 inch wide lines outside the paving limit shall be removed by grinding or sandblasting prior to placing new crosswalk striping.

At various locations in the project, crosswalks shall be consist of a series of ten (10) foot width by two (2) foot length bars, with no perpendicular lines at the crosswalk sides, as shown in the 'Miscellaneous Details & City Standard Details' of the Contract Documents.

Schedule

Raised pavement markers (RPM's) shall be placed to replace existing RPM's or as designated by City provided striping plans. When utilizing hot melt bituminous adhesive, RPM's shall be placed after the surface has been open to traffic for at least seven days. When utilizing epoxy adhesive, RPM's shall be placed after the surface has been open to traffic for at least fourteen days. Regardless of which adhesive is utilized, the RPM's shall not be placed more than twenty-one days after paving or surfacing.

Thermoplastic materials shall be placed to replace existing thermoplastic materials or as designated by City provided striping plans. **Permanent traffic striping and markings including legends and arrows shall be placed between fourteen (14) and twenty-one (21) days after paving or surfacing, unless otherwise directed by the Engineer.** All permanent striping shall be complete in place by the 22nd day after completion of resurfacing work. **All permanent striping on streets near schools shall be installed prior to August 11, 2018.** See Attachment A for list of streets near schools.

Reflective and Raised Pavement Markers

Installation of both reflective and raised pavement markers shall conform to the provisions of Section 85 of the Standard Specifications. Pavement markers shall be placed in the same pattern and locations as they were previously, except as specified by the Engineer.

Reflective Pavement Markers at fire hydrants shall consist of placing a single blue marker on the new pavement surface. Location of the new marker shall be six (6) inches off of the lane striping nearest to and in line with the existing fire hydrant.

Pavement Delineation- Thermoplastic

Pavement temperature shall be measured at the beginning of the shift on each working day and this information shall be provided to the Traffic Engineer.

No primer or thermoplastic shall be installed within forty-eight hours from the last measurable rain report as provided by the City.

Thermoplastic traffic striping, legends, and arrows shall conform to the provisions of Section 84-of the Standard Specifications and these Technical Provisions.

c. Measurement & Payment

Payment for traffic striping layout and placement of temporary lane markers will be included in the unit price bid for each striping detail as identified in the Bid Schedule and no additional compensation will be allowed therefore.

Measurement and payment for pavement striping, characters, arrows, pavement markers, raised pavement markers, and reflective pavement markers shall be paid on a unit cost basis as identified in the Bid Schedule.

Payment for any striping removal as identified herein shall be included in the unit price for the related striping item and no additional compensation will be allowed therefore.

The above contract unit costs shall be considered full compensation for furnishing all labor, materials, tools, equipment, transportation, and incidentals; and for performing all of the work involved as detailed in the Standard Specifications, these Technical Specifications, and the plans and typical sections. No additional compensation will be allowed therefore.

8. TRAFFIC SIGNAL LOOPS (Bid Item Number 41)

a. Item Requirement

Work to be performed under this Section covers all labor, materials, tools, equipment, transportation, and incidentals necessary to replace existing loop detectors at various street intersections. It is anticipated that all the existing loop detectors at the intersections will be damaged by the proposed pavement cold planing.

b. Scope

All replaced signal loops shall be Standard 6'x 6' rectangular loops as shown on plans and details unless specifically called out otherwise. Any changes to loop type, placement pattern, or installation may be performed only as allowed by the Engineer.

All such work shall conform to the details and provisions of the State of California, Department of Transportation's Standard Plans and Section 86, "Electrical Systems," of the Standard Specifications and these Technical Provisions, except that Subsection 86-8, "Payment," is modified herein.

Intersection Locations

All left turn lane and through lane detector loops, including advance lane loops, shall be replaced to their existing locations, or as shown in plans provided by the City and to the details provided in these contract documents.

The proposed locations of the replaced signal loops detectors shall be marked in the field and approved by the Engineer prior to installation.

Maintaining the traffic signals during construction shall be a part of this work. The maximum time between disconnecting loops in operation until replacement shall be 14 working days. Failure to meet this schedule will cause the work to be performed by City forces and the Contractor backcharged for the work.

Construction

All traffic loops shall be replaced after approval of cat tracking and prior to final striping.

Prior to initiating any work on the signal loops, the Contractor shall mark in the field location of new loops according to the plans and details. The City Traffic Division

shall be contacted to review locations as marked by contractor. Loop installation operations shall commence only after approval is granted by Traffic Engineer.

Advance warning loops shall be installed 200 feet from limit line, as outlined in Table 9-1 'Suggested Detector Setbacks from Limitline' in the State Traffic Manual.

Pull Boxes

Where the sump of an existing pull box is disturbed by the Contractor's operations, the sump shall be reconstructed and, if the sump was grouted, the old grout shall be removed and new grout placed.

Detectors

Loop wire shall be Type II.

In Lieu of the requirements in the fourth paragraph of Section 86-5.01A(5), "Installation of Details," of the State Standard Specifications, slots in asphalt concrete pavement shall be filled as follows:

After conductors are installed in the slots cut in the pavement, paint binder shall be applied to all vertical surfaces of slots in accordance with the provisions in Section 94, "Asphaltic Emulsions," of the State Standard Specifications. The slots shall then be filled with asphaltic concrete sealants using hot melt loop sealant.

Temperature of sealant material during installation shall be above 70 degrees F. Air temperatures during installation shall be above 50 degrees F. Hot melt sealant placed in the slots shall be compacted by use of an 8-inch diameter by 1/8-inch thick steel hand roller or other tool approved by the Engineer. Compacted sealant shall be flush with the pavement surface. Minimum conductor coverage shall be 5/8 inch. Excess sealant remaining after rolling shall not be reused. Traffic may be released immediately over compacted material.

The Contractor shall test all detectors with a motor-driven cycle, as defined in the California Vehicles Code, that is licensed for street use by the Department of Motor Vehicles of the State of California. The unladen weight of the vehicle shall not exceed 220 pounds and the engine displacement shall not exceed 100 cubic centimeters. Special features, components or vehicles designed to activate the detector will not be permitted. The Contractor shall provide an operator who shall drive the motor-driven cycle through the response or detection area of the detector at not less than 3 miles per hour nor more than 7 miles per hour.

Detectors will be disconnected or connected by the Contractor. The Contractor shall notify the Engineer 24 hours prior to any detector being disconnected or connected. Timing adjustments shall be made by City traffic personnel.

Schedule

Traffic signal loops damaged due to grinding, cold planing, digouts, paving or any other related construction shall be replaced within 2 weeks following the damage. Failure to comply with these requirements shall result in a liquidated damage of \$100 per day for each traffic signal loop not replaced with 2 weeks following the damage. All liquidated damages in this Contract are cumulative.

c. Measurement and Payment

The measurement and payment for replacing loop detectors, complete in place and operable, will be made at the unit bid price for each loop as listed in the bid schedule.

The unit price and payment shall include full compensation for furnishing all labor, materials, tools, equipment, transportation and incidentals, and for doing all the work involved in replacing the loop detectors, complete, as specified in these Technical Specifications.

8. SPEED BUMPS (Bid Item 42)

a. Item Requirements

Remove existing speed bumps prior paving. Install new speed bumps at existing location per City Standard detail 1-17. The profile of new speed bumps shall match existing.

Schedule

New speed bumps shall be installed a minimum of 5 calendar days and a maximum of 10 calendar days following final paving.

9. 6" AC Dike (Bid Item 44)

a. Item Requirement –

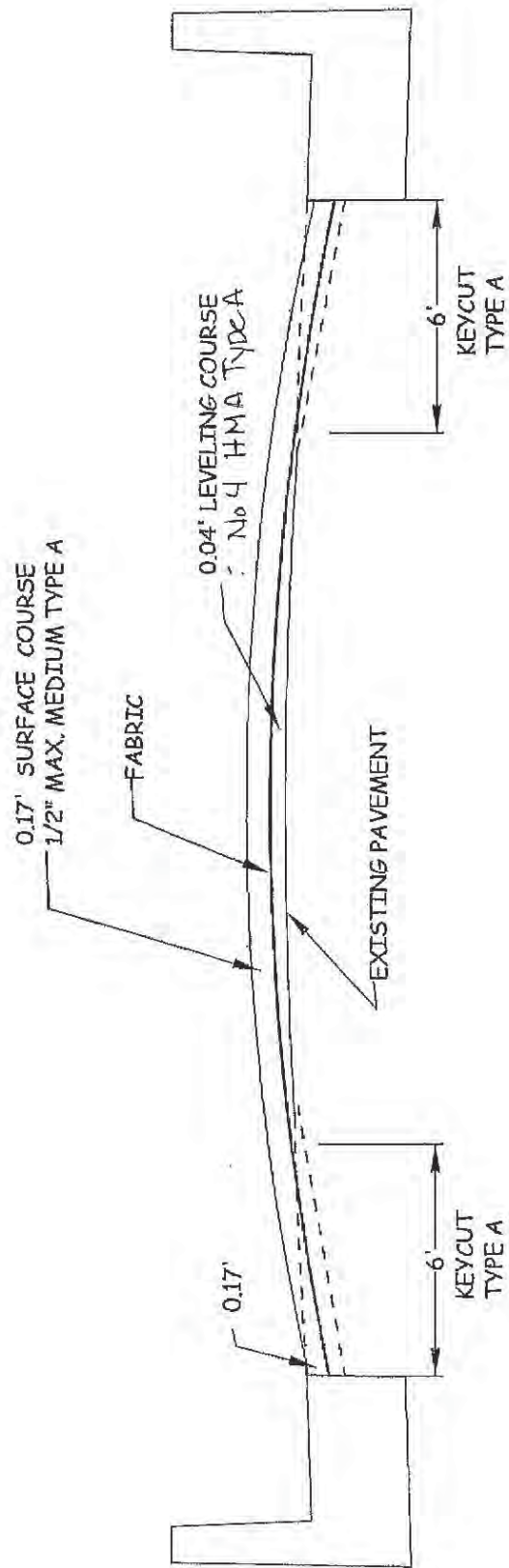
The contractor shall furnish and install Type D Asphalt Dike in accordance with Caltrans Standard Detail A87B and section 39 of the State Standard Specifications (latest edition).

b. Payment

Payment shall be per lineal foot.

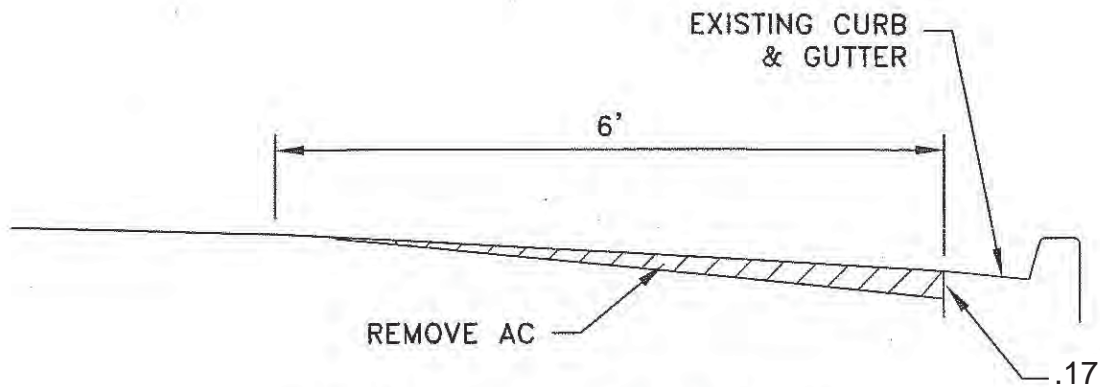
End Technical Specifications

TYPICAL SECTIONS AND KEY CUT DETAILS

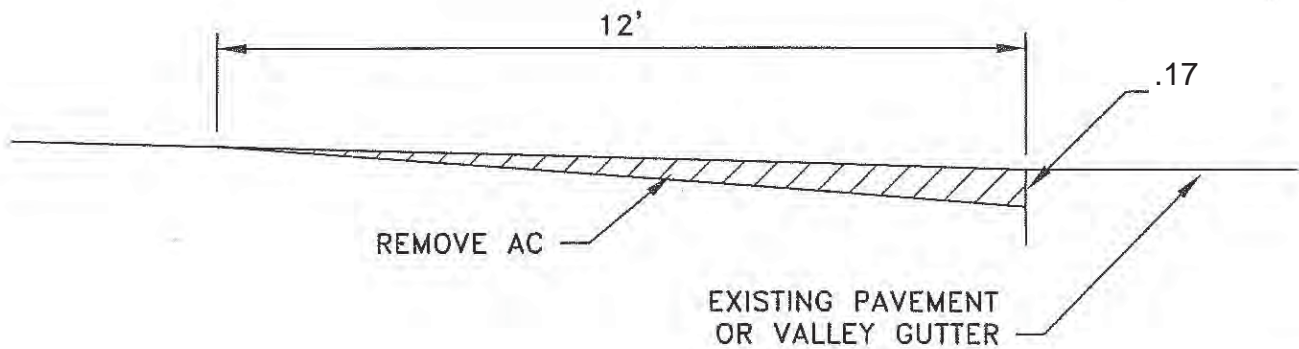


TYPICAL SECTION NO. 1

(LEVELING COURSE, FABRIC AND OVERLAY)

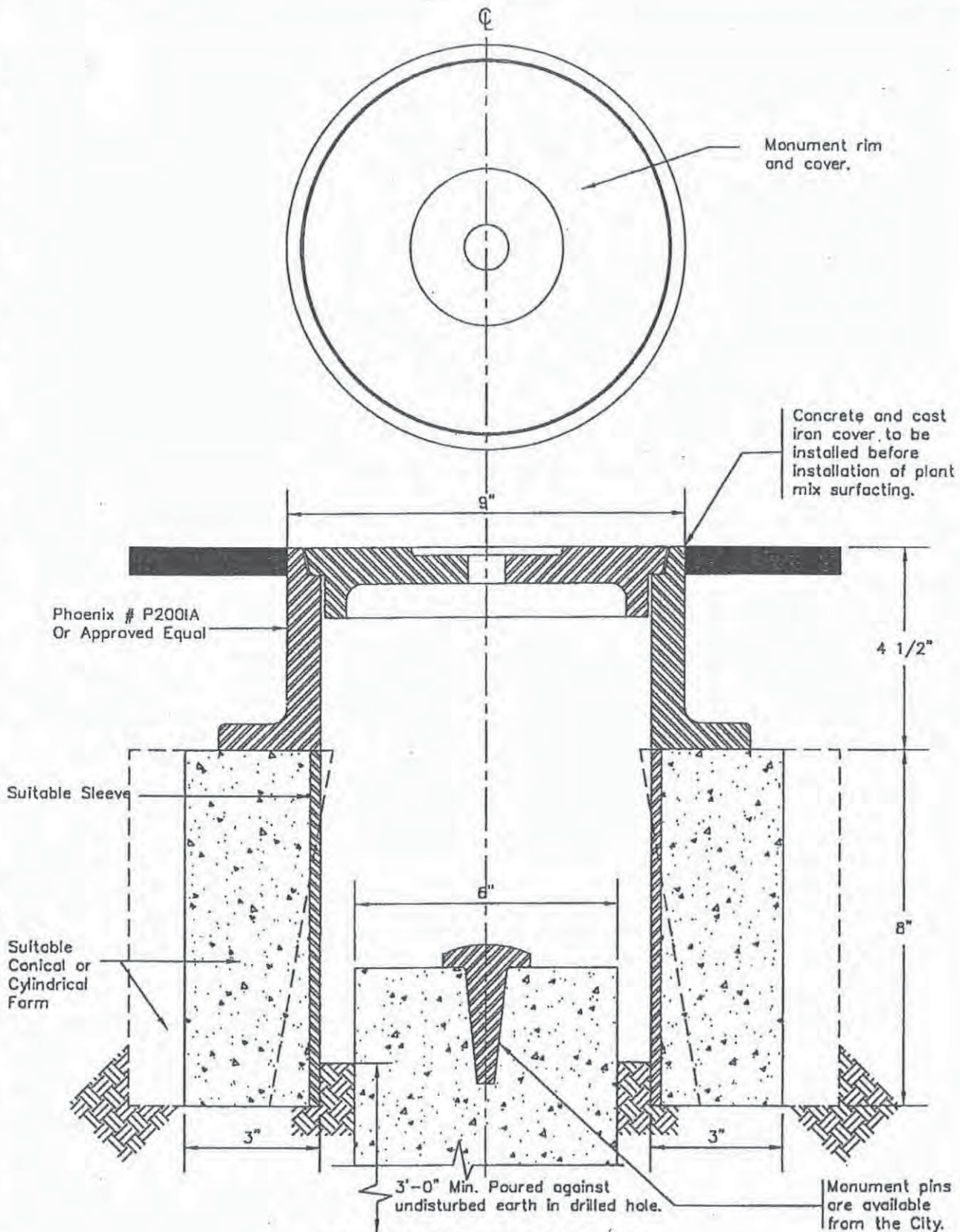


KEYCUT – TYPE A
LONGITUDINAL KEYCUT
 NTS



KEYCUT – TYPE B
TRANSVERSE KEYCUT
 NTS

CUPERTINO STANDARD DETAILS



STREET MONUMENT

CITY OF CUPERTINO
STANDARD DETAILS

APPROVED BY:

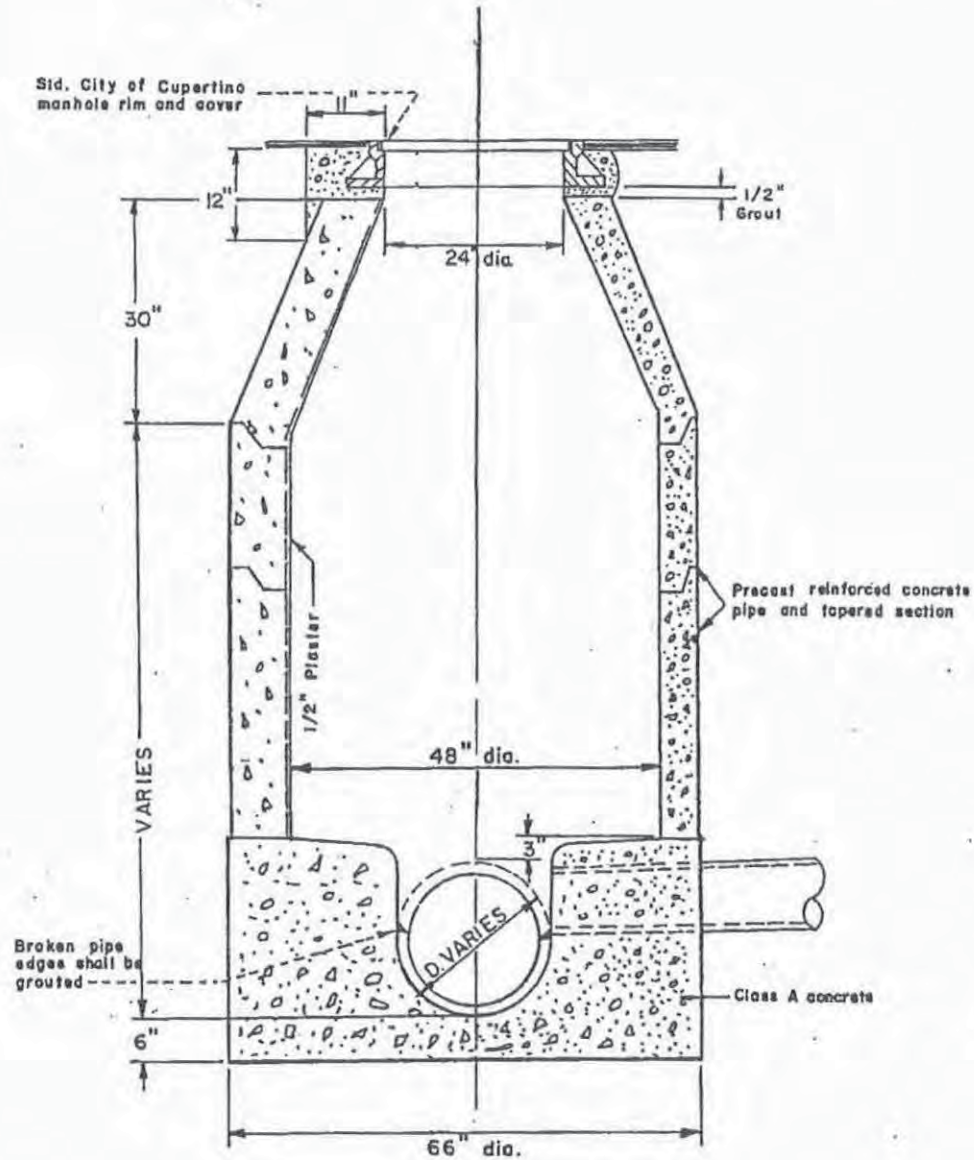
CITY ENGINEER

DATE: 6/27/97

1-14

CONCENTRIC MANHOLE

8" to 33" PIPE



NOTES:

Mortar and grout to conform to
Section 65, State Std. Specifications.

Manhole foundation poured in place.

**CITY OF CUPERTINO
STANDARD DETAILS**

APPROVED BY:

CITY ENGINEER

DATE:

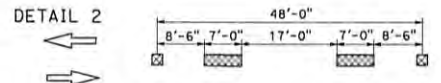
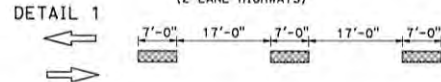
2/10/89

3-10

CALTRANS STANDARD DETAILS

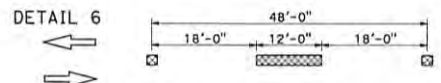
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
July 21, 2017 PLANS APPROVAL DATE THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF REPRODUCED COPIES OF THIS PLAN SHEET.			REGISTERED PROFESSIONAL ENGINEER Alvaro Feraud No. 3-31-19 CIVIL STATE OF CALIFORNIA		

CENTERLINES (2 LANE HIGHWAYS)



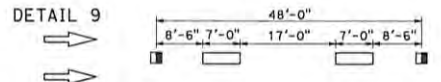
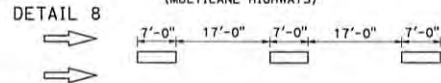
~~DETAIL 3~~ DETAIL 3 DELETED

~~DETAIL 4~~ DETAIL 4 DELETED

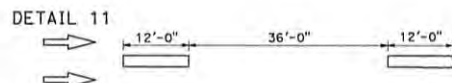


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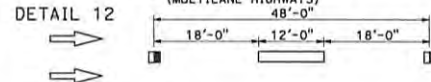
LANELINES (MULTILANE HIGHWAYS)



~~DETAIL 10~~ DETAIL 10 DELETED

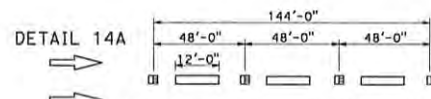


LANELINES (Cont)

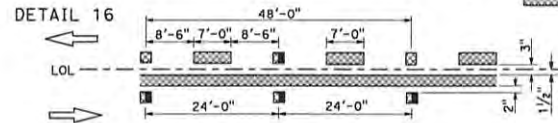
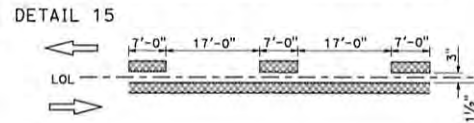


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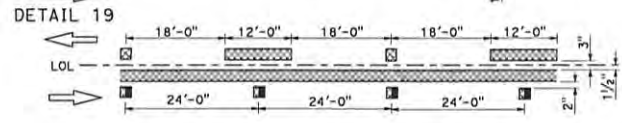
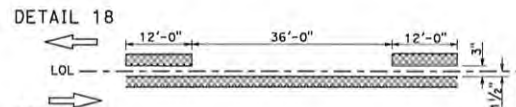
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NO PASSING ZONES-ONE DIRECTION

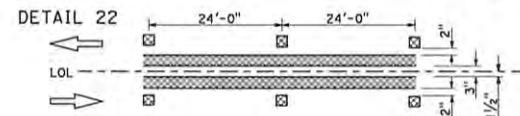
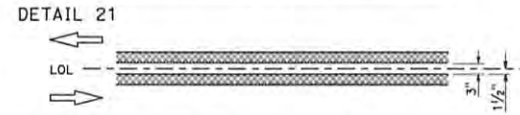


~~DETAIL 17~~ DETAIL 17 DELETED



~~DETAIL 20~~ DETAIL 20 DELETED

NO PASSING ZONES-TWO DIRECTION



~~DETAIL 23~~ DETAIL 23 DELETED

LEGEND

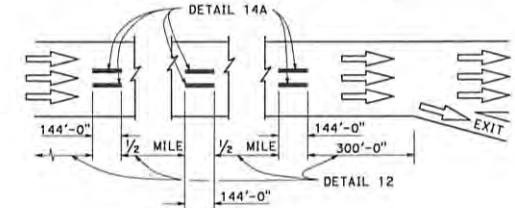
MARKERS

- TYPE C RED-CLEAR RETROREFLECTIVE
- TYPE D TWO-WAY YELLOW RETROREFLECTIVE
- TYPE G ONE-WAY CLEAR RETROREFLECTIVE
- TYPE H ONE-WAY YELLOW RETROREFLECTIVE

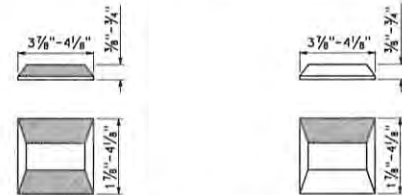
LINES

- 6" WHITE
- 6" YELLOW

TYPICAL LANE LINE DELINEATION IN ADVANCE OF EXIT RAMP



MARKER DETAILS



TYPE C AND TYPE D TYPE G AND TYPE H

RETROREFLECTIVE FACE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

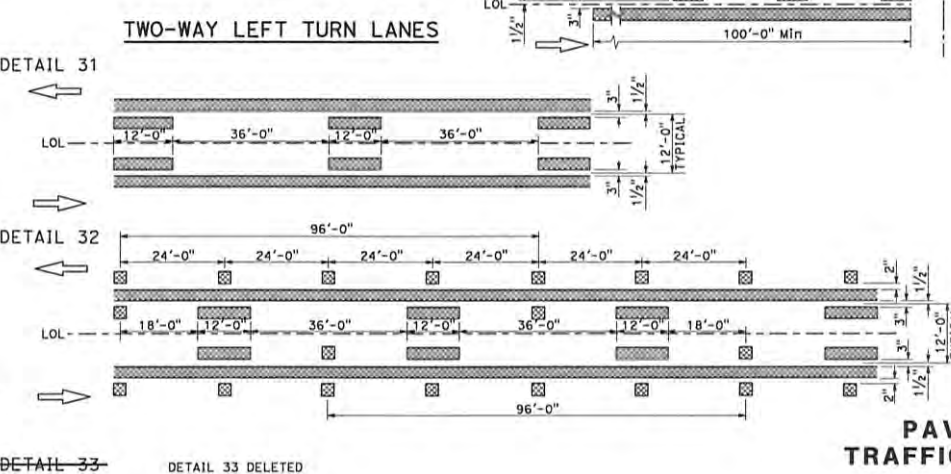
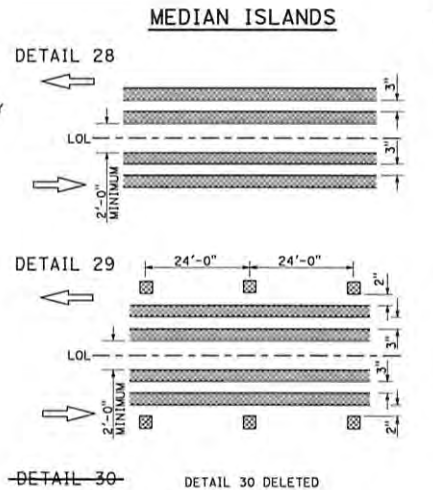
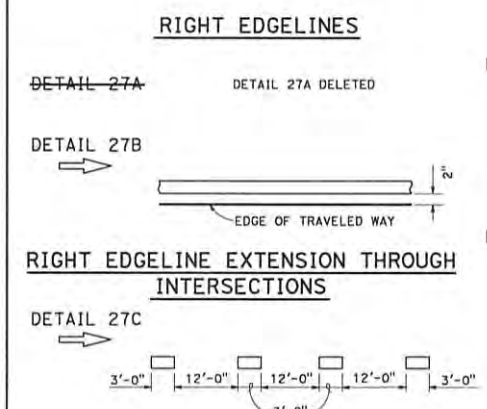
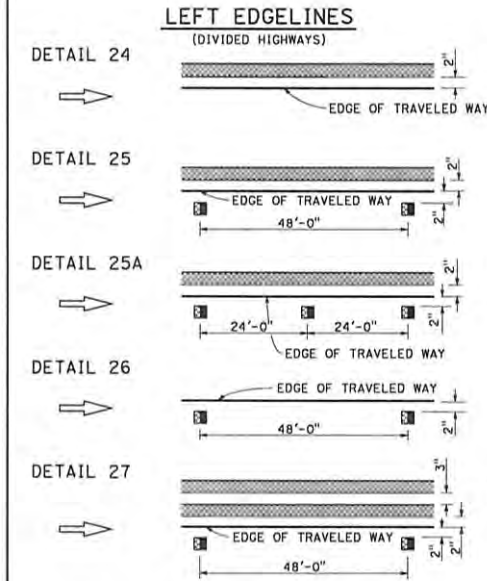
PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS

NO SCALE

RSP A20A DATED JULY 21, 2017 SUPERSEDES STANDARD PLAN A20A
DATED OCTOBER 30, 2015 - PAGE 12 OF THE STANDARD PLANS BOOK DATED 2015.

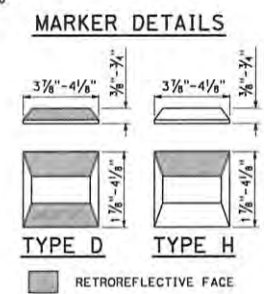
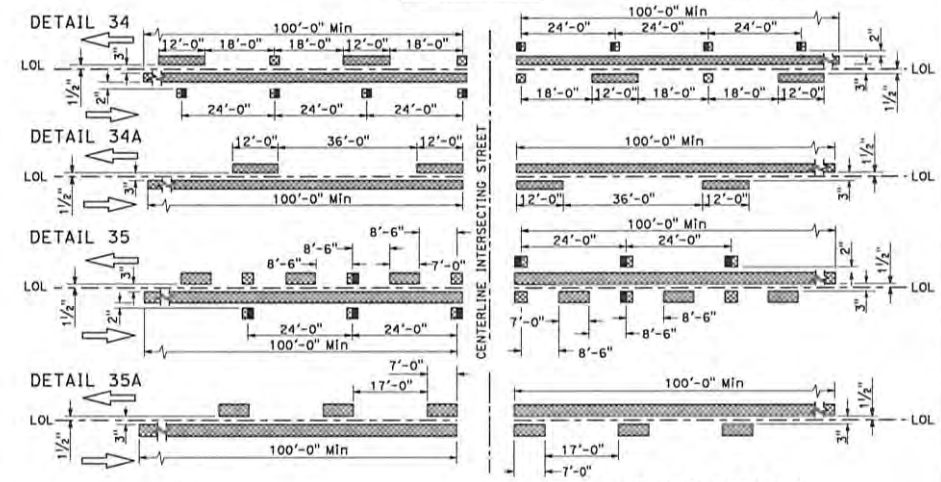
REVISED STANDARD PLAN RSP A20A

2015 REVISED STANDARD PLAN RSP A20A



- LEGEND**
- MARKERS**
- TYPE D TWO-WAY YELLOW RETROREFLECTIVE
 - TYPE H ONE-WAY YELLOW RETROREFLECTIVE
- LINES**
- 6" WHITE
 - 6" YELLOW

INTERSECTION TREATMENTS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS

NO SCALE

RSP A20B DATED JULY 21, 2017 SUPERSEDES STANDARD PLAN A20B
DATED OCTOBER 30, 2015 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2015.

REVISED STANDARD PLAN RSP A20B

2015 REVISED STANDARD PLAN RSP A20B

Diagram illustrating the transition from a ramp to a mainline, labeled DETAIL 36. The diagram shows a ramp section on the left and a mainline section on the right, separated by a vertical line.

Ramp Section (Left):

- Length: 24'-0"
- Grade: 2%
- Edge of Traveled Way (Ramp): Indicated by a dashed line.
- 6" Yellow Line: Located at the edge of the ramp.
- 8" White Line: Located at the edge of the mainline.

Mainline Section (Right):

- Length: 1'-0"
- Edge of Traveled Way (Mainline): Indicated by a dashed line.
- 6" White Line: Located at the edge of the mainline.
- SEE DETAIL 27B REVISED S+D PLAN RSP A20B: Reference to the mainline section.
- SEE DETAIL 25A REVISED S+D PLAN RSP A20B: Reference to the ramp section.

DETAIL 36A

6" WHITE LINE

8" WHITE LINE

EDGE OF TRAVELED WAY (MAINLINE)

SEE DETAIL 27B
REVISED Std PLAN RSP A20B

6" WHITE LINE

SEE DETAIL 8 OR 9
REVISED Std PLAN RSP A20A

8" WHITE LINE

6" YELLOW LINE

24'-0"

EDGE OF TRAVELED WAY (RAMP)

SEE DETAILS 25A
REVISED Std PLAN RSP A20B

DETAIL 36B

6" WHITE LINE

8" WHITE LINE

EDGE OF TRAVELED WAY (MAINLINE)

SEE DETAIL 27B
REVISED Std PLAN RSP A20B

8" WHITE LINE

6" YELLOW LINE

24'-0"

EDGE OF TRAVELED WAY (RAMP)

SEE DETAIL 25A
REVISED Std PLAN RSP A20B

MARKER DE

$3\frac{7}{8}" - 4\frac{1}{8}"$

$\frac{3}{8}" - \frac{3}{4}"$

TYPE C

TYPE G

RETROREFLECTIVE FACE

Diagram illustrating the dimensions for a weaving section. The diagram shows a series of lanes with widths of 30'-0" and 6'-0". A solid channelizing line is shown, with a note indicating it may be omitted on short auxiliary lanes where weaving length is critical. Dimensions include 90'-0" for the main section, 3'-0" for the auxiliary lane, and 300'-0" for the total length. The diagram is labeled "DETAIL 37" and "REPEAT AT 1/2 MILE INTERVALS".

DETAIL 37

90'-0"

REPEAT AT 1/2 MILE INTERVALS

30'-0"

30'-0"

30'-0"

30'-0"

6'-0"

6'-0"

3'-0"

12'-0"

6'-0"

8" WHITE LINE

3'-0"

SEE DETAIL 36

300'-0"

SEE DETAIL 388
REVISED Std
PLAN RSP A200

* The solid channelizing line shown may be omitted on short auxiliary lanes where weaving length is critical.

~~DETAIL 37A~~ DETAIL 37A DELETED

[illegible]

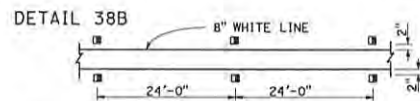
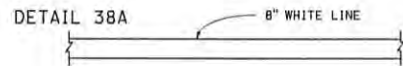
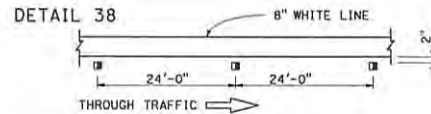
~~DETAIL 37C~~ DETAIL 37C DELETED

RSP A20C DATED JULY 21, 2017 SUPERSEDES STANDARD PLAN A20C
DATED OCTOBER 30, 2015 - PAGE 14 OF THE STANDARD PLANS BOOK DATED 2015.

REVISÉD STANDARD PLAN RSP A20C

2015 REVISED STANDARD PLAN RSP A200C

CHANNELIZING LINE



DETAIL 38C DELETED

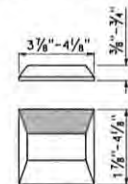
LEGEND

MARKERS

TYPE G ONE-WAY CLEAR RETROREFLECTIVE

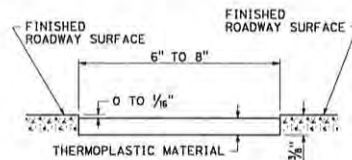
6" YELLOW LINE

MARKER DETAILS



TYPE G

RETROREFLECTIVE FACE



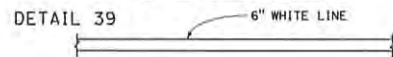
DETAIL FOR RECESSED THERMOPLASTIC TRAFFIC STRIPE

See Notes A and B.

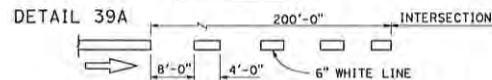
RECESSED THERMOPLASTIC NOTES

- See typical traffic line details for pavement marking patterns.
- The top of the thermoplastic installed in recessed pavement shall be 0 to 1/16" below the pavement surface.

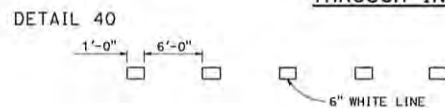
BIKE LANE LINE



INTERSECTION LINE BIKE LANE



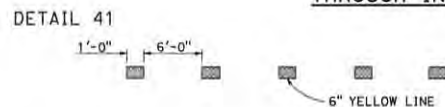
LANE LINE EXTENSIONS THROUGH INTERSECTIONS



DETAIL 40A DELETED

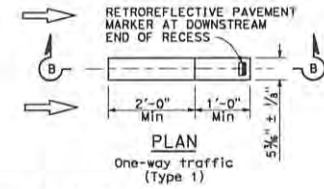
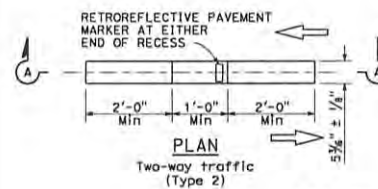
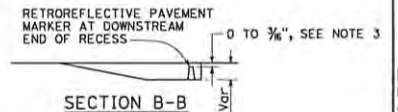
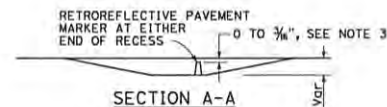
DETAIL 40A DELETED

CENTER LINE EXTENSIONS THROUGH INTERSECTIONS

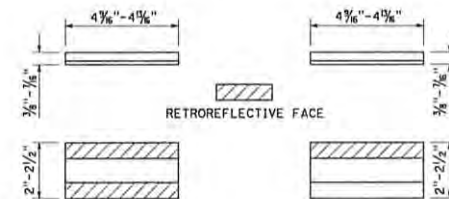


DETAIL 41A DELETED

DETAIL 41A DELETED



RECESS DETAIL FOR RETROREFLECTIVE PAVEMENT MARKER



RECESSED MARKER NOTES:

- See typical traffic line details for marker patterns to be used with recessed pavement markers. Detail 14A requires a Type 2 recess.
- The retroreflective pavement markers shown for recessed installations are not to be used for non-recessed installations.
- The top of pavement markers installed in recesses shall be 0 to 3/8" below the pavement surface.

TYPE C AND TYPE D TYPE G AND TYPE H
See Notes 1 and 2.

RETROREFLECTIVE PAVEMENT MARKER FOR RECESSED INSTALLATION

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

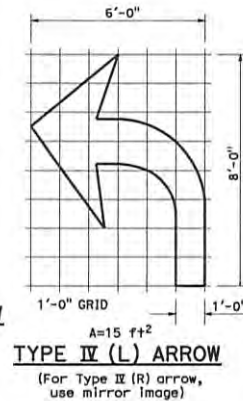
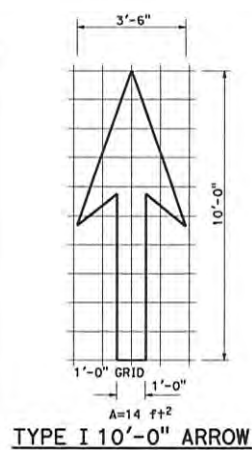
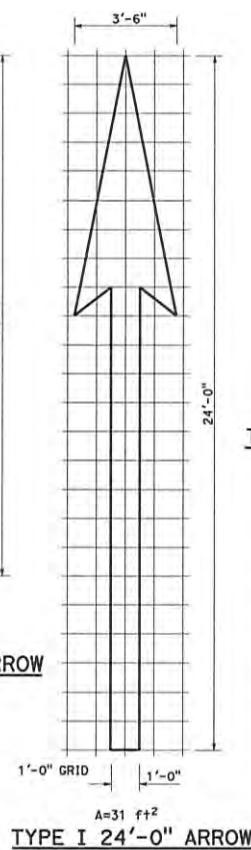
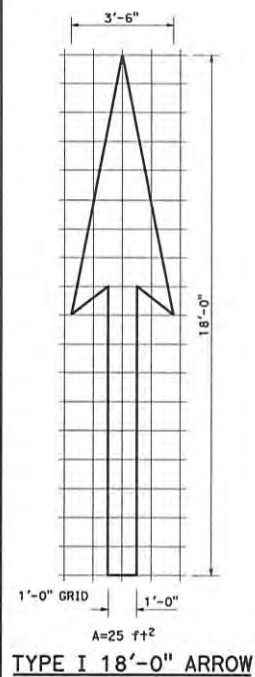
PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS

NO SCALE

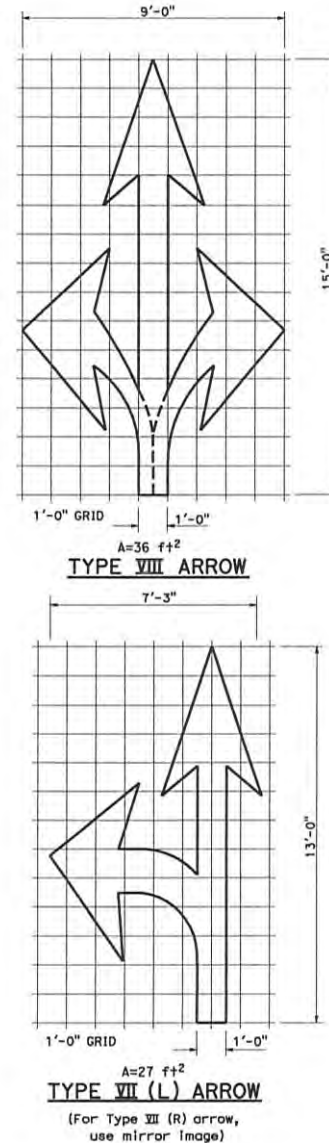
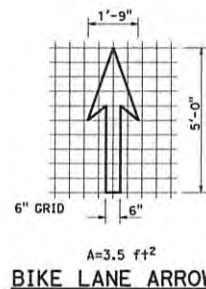
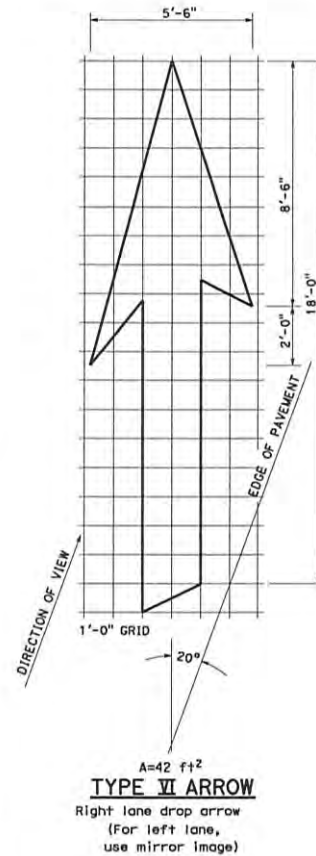
RSP A200 DATED JULY 21, 2017 SUPERSEDES STANDARD PLAN A200
DATED OCTOBER 30, 2015 - PAGE 15 OF THE STANDARD PLANS BOOK DATED 2015.

REVISED STANDARD PLAN RSP A200

2015 REVISED STANDARD PLAN RSP A200

**NOTE:**

Minor variations in dimensions may be accepted by the Engineer.



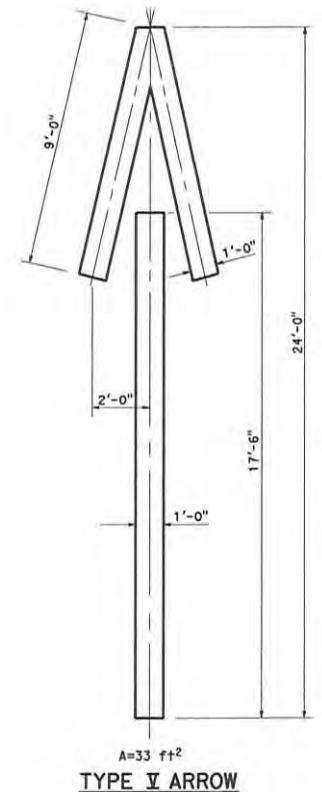
DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
			TOTAL PROJECT	NO. SHEETS

Atifa Ferous
REGISTERED CIVIL ENGINEER

October 30, 2015
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
Atifa Ferous
C80402
3-31-17
CIVIL
STATE OF CALIFORNIA

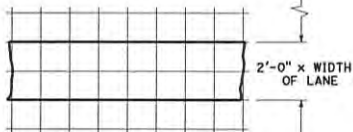
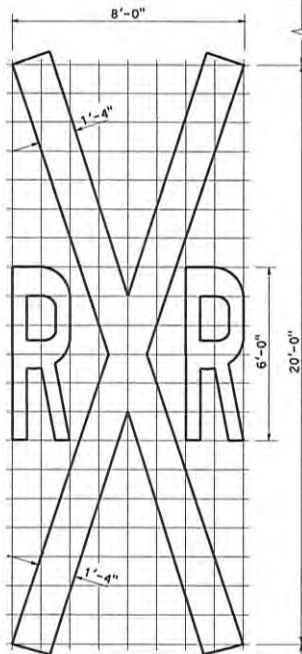
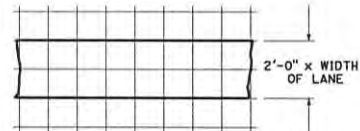


STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
ARROWS**

NO SCALE

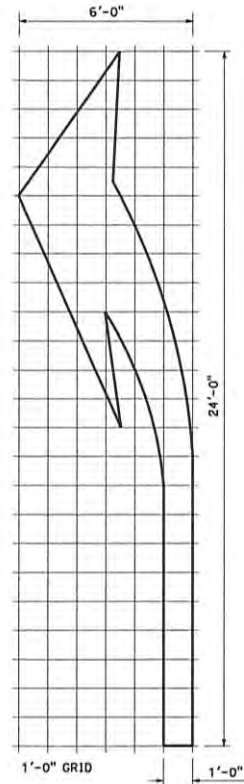
A24A

2015 STANDARD PLAN A24A

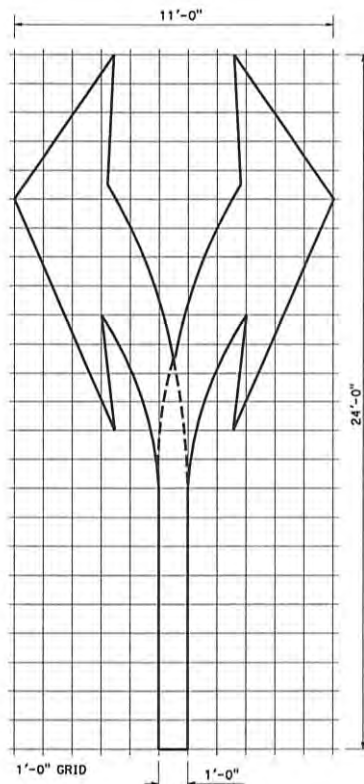


RAILROAD CROSSING SYMBOL

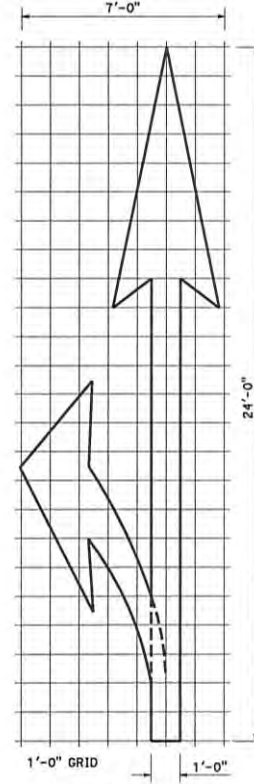
* 70 ft² does not include the 2'-0" x variable width transverse lines.



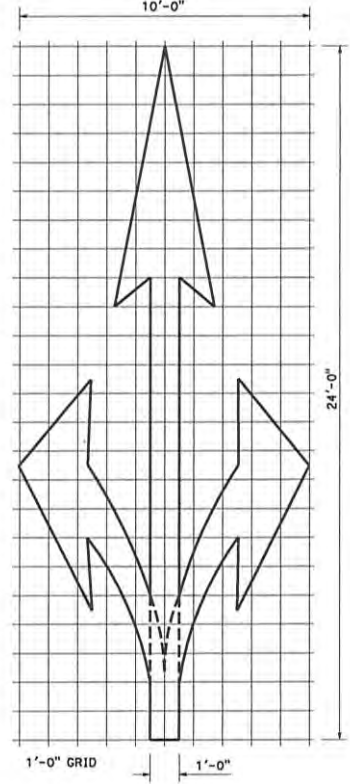
A=42 ft²
TYPE III (L) ARROW
 (For Type III (R) use mirror image)



A=73 ft²
TYPE III (B) ARROW



A=45 ft²
TYPE II (L) ARROW
 (For Type II (R) use mirror image)



A=59 ft²
TYPE II (B) ARROW

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
 ARROWS AND SYMBOLS**

NO SCALE

A24B

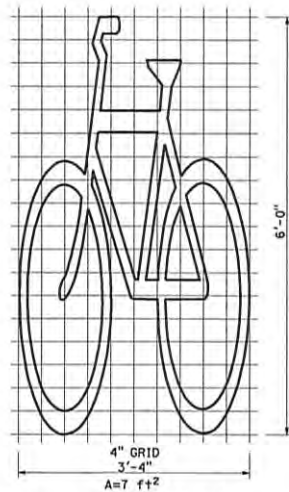
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS

Atifa Ferrey
 REGISTERED CIVIL ENGINEER

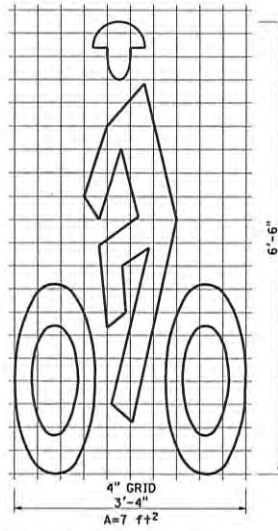
October 30, 2015
 PLANS APPROVAL DATE

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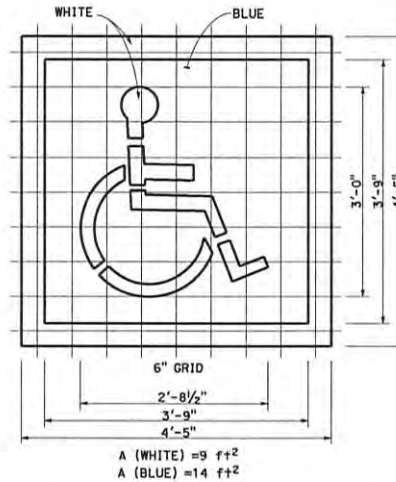
Atifa Ferrey
 C80402
 3-31-17
 CIVIL
 STATE OF CALIFORNIA



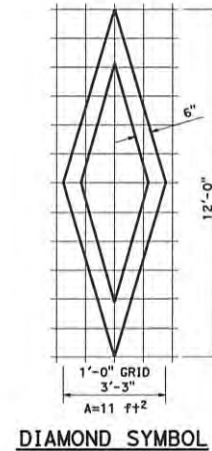
**BIKE LANE SYMBOL
WITHOUT PERSON**



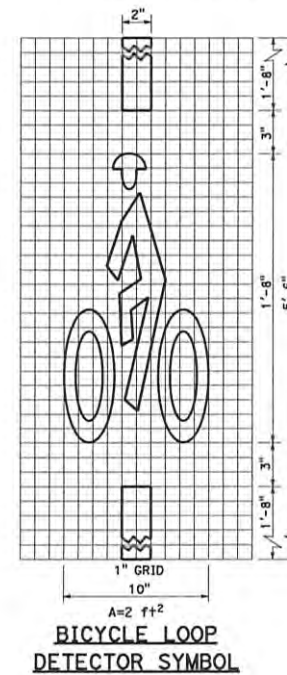
**BIKE LANE SYMBOL
WITH PERSON**



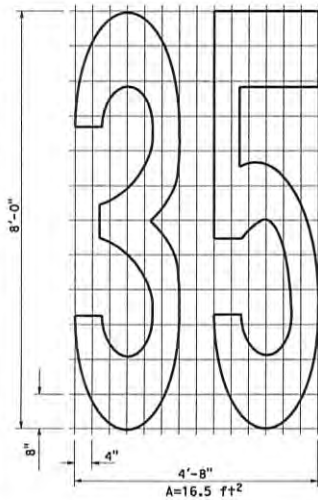
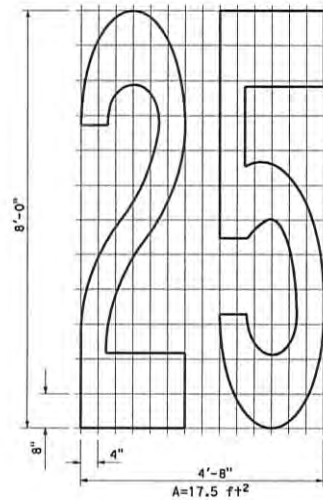
**INTERNATIONAL SYMBOL
OF ACCESSIBILITY (ISA) MARKING**



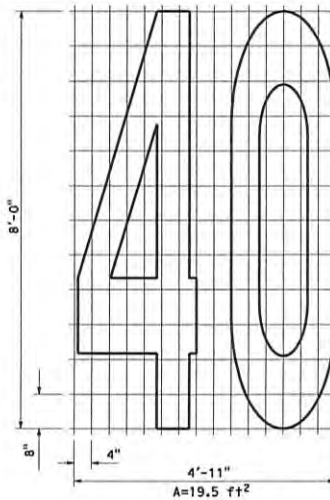
DIAMOND SYMBOL



**BICYCLE LOOP
DETECTOR SYMBOL**



NUMERALS



DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL No. SHEETS

Atifa Farooq
REGISTERED CIVIL ENGINEER

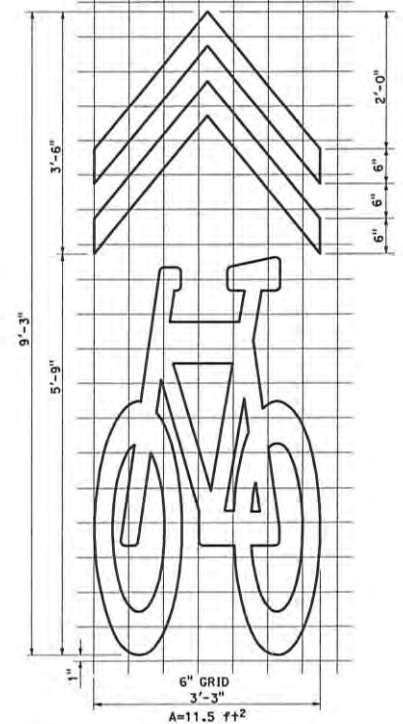
October 30, 2015
PLANS APPROVAL DATE

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C80402
3-31-17
CIVIL
STATE OF CALIFORNIA

NOTE:

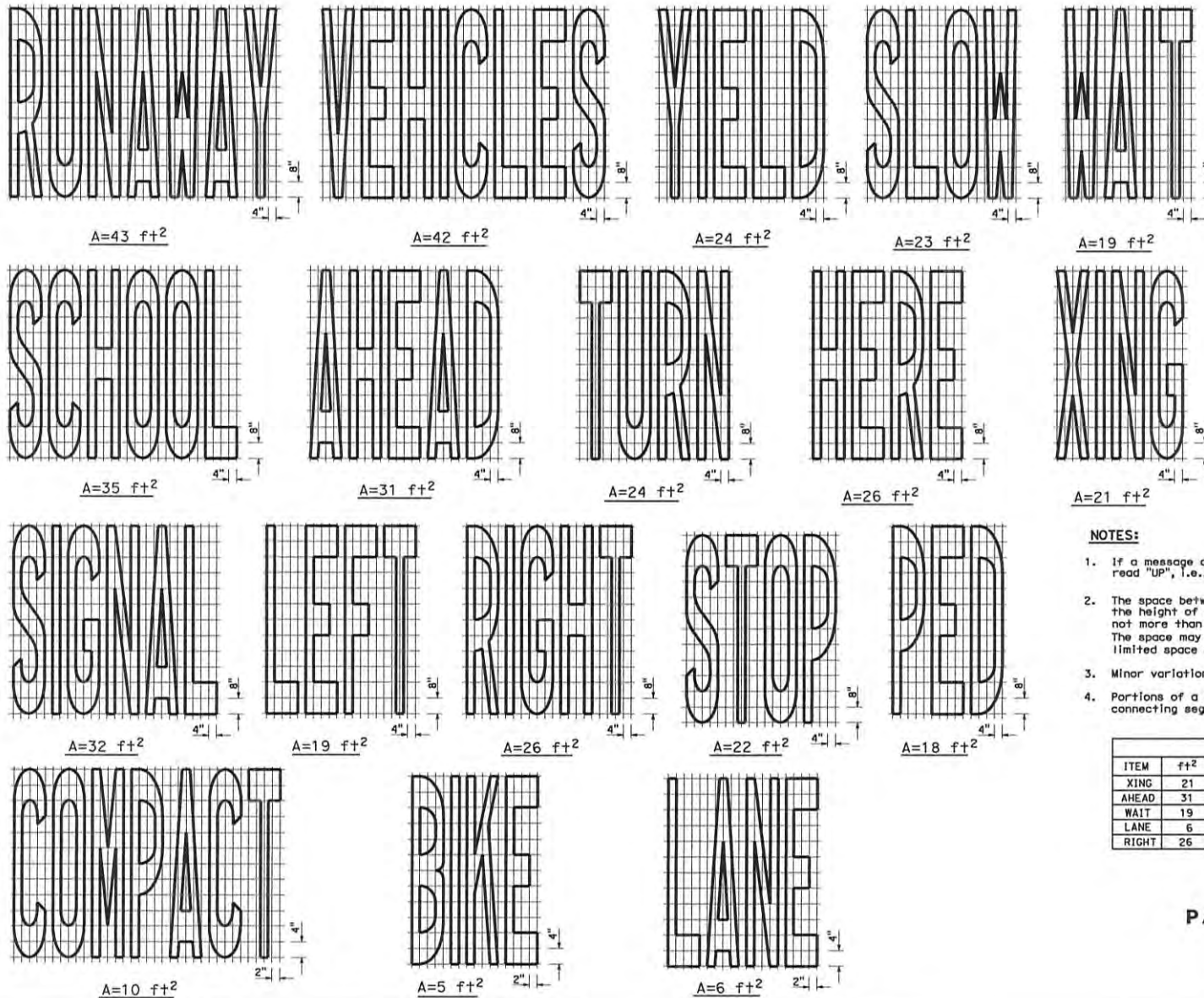
Minor variations in dimensions may be accepted
by the Engineer.



SHARED ROADWAY BICYCLE MARKING

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
SYMBOLS AND NUMERALS**
NO SCALE

A24C



DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS

Atifa Feray
REGISTERED CIVIL ENGINEER

October 30, 2015
PLANS APPROVAL DATE

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Atifa Feray
C80402
Exp. 3-31-17
CIVIL
STATE OF CALIFORNIA

NOTES:

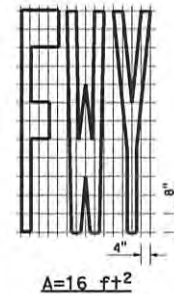
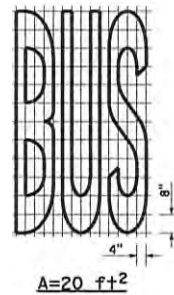
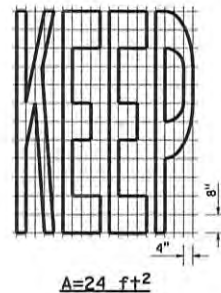
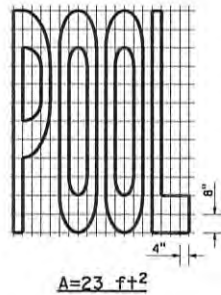
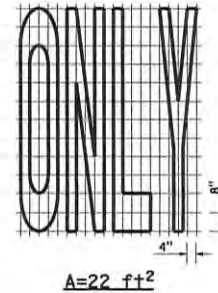
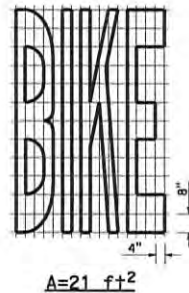
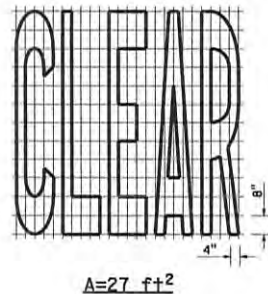
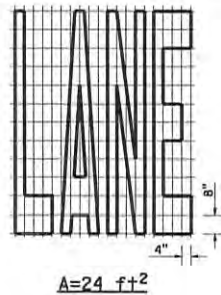
1. If a message consists of more than one word, it must read "up", i.e., the first word must be nearest the driver.
2. The space between words must be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
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.

WORD MARKINGS

ITEM	f+2	ITEM	f+2	ITEM	f+2	ITEM	f+2
XING	21	YIELD	24	BIKE	5	PED	18
AHEAD	31	SCHOOL	35	SLOW	23	COMPACT	10
WAIT	19	SIGNAL	32	STOP	22	RUNAWAY	43
LANE	6	TURN	24	LEFT	19	VEHICLES	42
RIGHT	26	HERE	26				

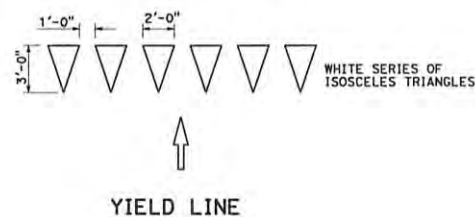
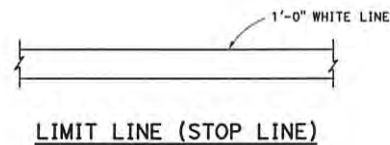
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
WORDS**
NO SCALE

A24D



DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS
October 30, 2015 PLANS APPROVAL DATE				
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WORD MARKINGS			
ITEM	ft+2	ITEM	ft+2
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16

**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 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.
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.
5. The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
6. 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.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS
WORDS, LIMIT AND YIELD LINES

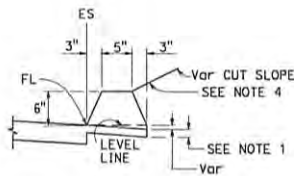
NO SCALE

A24E

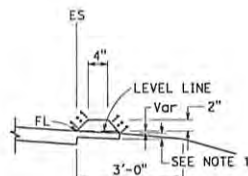
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL No. SHEETS
January 15, 2016 PLANS APPROVAL DATE				
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>				

TO ACCOMPANY PLANS DATED _____

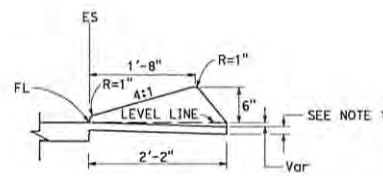
2015 REVISED STANDARD PLAN RSP A87B



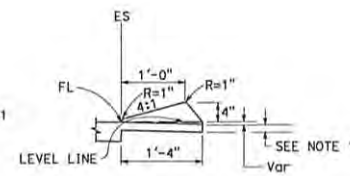
TYPE A
See Notes 3 and 5



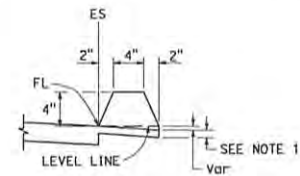
TYPE C



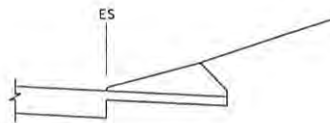
TYPE D
DIKES



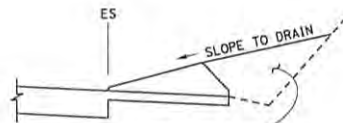
TYPE E



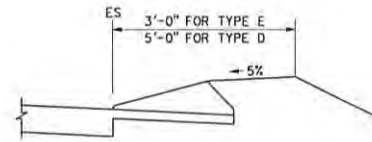
TYPE F
See Note 5



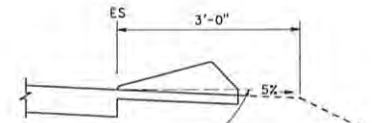
CASE C-1
Cut Slope



CASE C-2
Cut Slope



CASE F



CASE R
See Note 2

TYPE D AND E BACKFILL DETAILS

NOTES:

- For HMA shoulders only, extend top layer of HMA placed on the shoulder under dike with no joint at the ES. For projects with OGFC shoulders, do not extend OGFC under dike. See project plans for modified dike detail.
- Case R applies to retrofit only projects where restrictive conditions do not provide enough width for Case F backfill.
- Type A dike only to be used where restrictive slope conditions do not provide enough width to use Type D or Type E dike.
- Fill and compact with excavated material to top of dike.
- Use Type A or F dike, where dike is required with guardrail installations. See Standard Plan A77N4 for dike positioning details. See Standard Plan A77N3 for hinge point offsets with guardrail.

**DIKE
QUANTITIES**

TYPE	CUBIC YARDS PER LINEAR FOOT
A	0.0135
C	0.0038
D	0.0293
E	0.0130
F	0.0066

Quantities based on 5% cross slope.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT DIKES

NO SCALE

RSP A87B DATED JANUARY 15, 2016 SUPERSEDES STANDARD PLAN A87B
DATED OCTOBER 30, 2015 - PAGE 126 OF THE STANDARD PLANS BOOK DATED 2015.

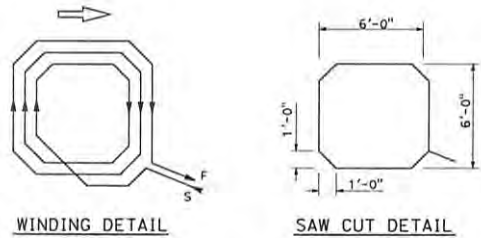
REVISED STANDARD PLAN RSP A87B

DIST.	COUNTY	ROUTE	POST MILES	SHEET TOTAL
			TOTAL PROJECT	SHEETS

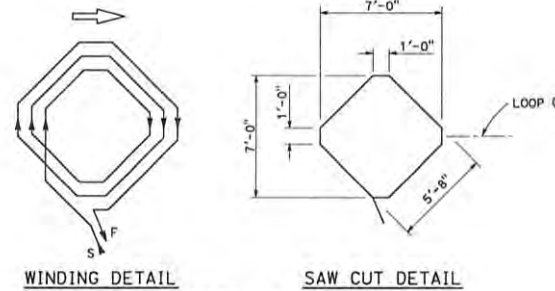
Thomas Gabriel
 REGISTERED ELECTRICAL ENGINEER
 April 15, 2016
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Thomas Gabriel
 No. E15129
 Exp. 6-30-18
 CALIFORNIA
 STATE OF CALIFORNIA

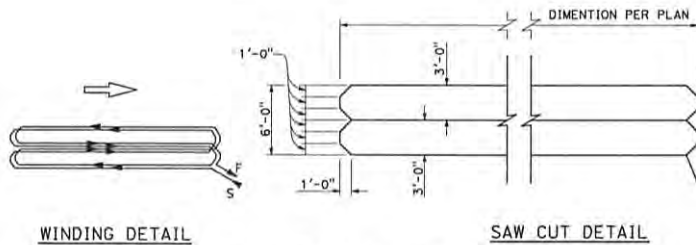
TO ACCOMPANY PLANS DATED _____



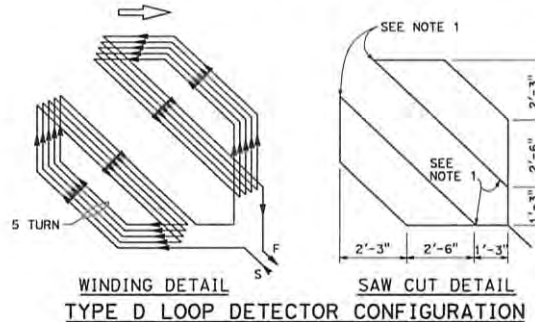
WINDING DETAIL
SAW CUT DETAIL
TYPE A LOOP DETECTOR CONFIGURATION



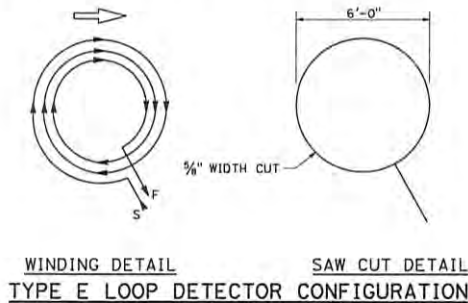
WINDING DETAIL
SAW CUT DETAIL
TYPE B LOOP DETECTOR CONFIGURATION



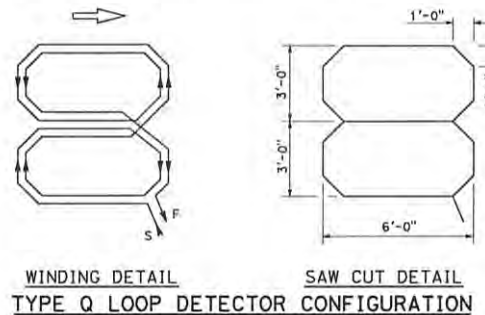
WINDING DETAIL
SAW CUT DETAIL
TYPE C LOOP DETECTOR CONFIGURATION



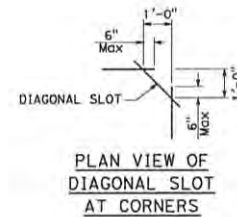
WINDING DETAIL
SAW CUT DETAIL
TYPE D LOOP DETECTOR CONFIGURATION



WINDING DETAIL
SAW CUT DETAIL
TYPE E LOOP DETECTOR CONFIGURATION



WINDING DETAIL
SAW CUT DETAIL
TYPE Q LOOP DETECTOR CONFIGURATION



PLAN VIEW OF
DIAGONAL SLOT
AT CORNERS

NOTES:

1. Round corners of acute angle saw cuts to prevent damage to conductors.
2. Typical distance separating loops from edge to edge is 10' for Type A, B, D and E installation in single lane.
3. Use Type D loops for limit line detection and bicycle lanes.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
(DETECTORS)**

NO SCALE

RSP ES-5B DATED APRIL 15, 2016 SUPERSEDES STANDARD PLAN ES-5B
DATED OCTOBER 30, 2015 - PAGE 446 OF THE STANDARD PLANS BOOK DATED 2015.

REVISED STANDARD PLAN RSP ES-5B

2015 REVISED STANDARD PLAN RSP ES-5B

Estimated Quantities -

2018	Pavement Maintenance Phas3 1 Project											
Engineer's Estimate - \$3,000,000.00												
		AREA #	1	15	15	15	15	15	16	16	16	18
Estimated Quantities			OVERLAY	OVERLAY	OVERLAY	OVERLAY	OVERLAY	OVERLAY	OVERLAY	OVERLAY	OVERLAY	OVERLAY
BID ITEM NO.	BID ITEM	UNIT	Lavina Ct (Flora Vista to End)	Annette Way (Stanford to Rollingdell)	Erin Way (Stelling to Kim)	Kirwin Ln (De Anza Erin)	Rollingdell Ct (Rollingdell to End)	Rollingdell Dr (200' W of De Anza to Kentwood)	Cheryl Dr (Paradise to Westacres)	Scofield Dr (Western to De Anza)	Shelly Dr (Bonny to Terry)	Clay St (Whitney to End)
		AREA	7632	11333	43920	89620	8751	39476	32355	48968	49140	23500
1	Traffic Control	LS							---			---
2	Leveling Course -No. 4 Hot Mix Asphalt Type A	TN	23	34	132	269	26	118	97	147	147	71
3	Hot Mix Asphalt, 1/2" Maximum Type A	TN	97	144	560	1,143	112	503	413	624	627	300
4	Pavement Fabric	SY	848	1,259	4,880	9,958	972	4,386	3,434	5,441	5,460	2,611
5	Keycut A	LF	490	700	1270	4680	600	2060	1580	2460	2450	1170
6	keycut B	LF	75	75	180	240	0	210	160	90	240	110
7	Dig Out 6" AC	SY	0	0	0	0	0	0		0	0	0
8	Adjust Survey Monument Cover to Finish Grade	EA	2	1	4	10	1	8	5	1	8	3
9	Replace Monument Box	EA										
10	Lower Manhole Covers Prior to Cold Planing	EA	1	1	2	4	0	2	0	0	5	0
11	Lower Cleanout / Water / Gas Valve Cover Prior to Cold	EA	1	0	0	0	0	2	0	0	0	1
12	Adjust Manhole Covers to Finish Grade	EA	2	2	5	13	1	10	3	4	8	3
13	Adjust Cleanout / Water / Gas Valve Cover to Finish Gra	EA	1	0	0	0	0	2	1	0	0	1
14	Install Blue RPM's @ Fire Hydrant	EA	0	1	3	4	0	2	0	2	1	2
15	6" White Lines (Thermo)	LF	0	0	210	0	0	0	0	0	0	0
16	12" White Hatch (Thermo)	LF	0	0		0	0	0	0	0	0	0
17	12" White Crosswalk/Limit Line (Thermo)	LF	0	0	20	140	0	0	0	25	0	0
18	12" Yellow Crosswalk (Thermo)	LF	0	0	0	0	0	0	0	0	0	0
19	24" White (Thermo)	LF	0	0	0	0	0	0	0	0	0	0
20	24" Yellow (Thermo)	LF	0	0	0	0	0	0	0	0	0	0
21	Striping Detail #10 (Markers	LF	0	0	0	0	0	0		0	0	0
22	Striping Detail # 22 (Thermo & Markers)	LF	0	0	350	480	0	0	170	60	50	100
23	Striping Detail 38	LF	0	0	0	0	0	0		0	0	0
24	Striping Detail # 39 (Thermo)	LF	0	0	0	0	0	0	0	0	0	0
25	Striping Detail # 39A (Thermo)	LF	0	0	0	0	0	0	0	0	0	0
26	Striping Detail # 40A (Thermo)	LF	0	0	0	0	0	0		0	0	0
27	"Ahead Legend" Yellow (Pre-formed thermo)	EA	0	0	0	2	0	0	0	0	0	0
28	"STOP" Legend (Pre-formed Thermo)	EA	0	0	0	7	0	0	0	2	0	0
29	"SLOW" Legend (Pre-formed Thermo)	EA	0	0	0	0	0	0	0	0	0	0
30	"SCHOOL" Legend (Pre-formed Thermo)	EA	0	0	0	0	0	0	0	0	0	0
31	"XING" Legned (Pre-formed Thermo)	EA	0	0	0	0	0	0	0	0	0	0
32	"25" Legend (Pre-formed Thermo)	EA	0	0	0	1	0	0	0	1	0	0
33	"YIELD" Legend (Pre-formed Thermo)	EA	0	0	0	1	0	0	0	0	0	0
34	"BUMP" Legend (Pre-formed Thermo)	EA	0	0	0	0	0	0	0	0	4	0
35	Bike Rider Symbol and Arrow Left Facing (Preformed Th	EA	0	0	0	0	0	0		0	0	0
36	Green Bike Lane (Pre-formed Thermo)	SF	0	0	0	0	0	0	0	0	0	0
37	Bike Rider Symbol Left Facing (Pre-formed white on gre	EA	0	0	0	0	0	0	0	0	0	0
38	Bike Rider Arrow (Pre-Formed white on green)	EA	0	0	0	0	0	0	0	0	0	0
39	Arrow Type III (Pre-formed Thermo)	EA								0		
40	Arrow Type IV (Pre-formed Thermo)	EA	0	0	0	0	0	0	0	0	0	0
41	Replace Traffic Signal Loops	EA	0	0	0	0	0	0	0	0	0	0
42	Remove/Install Speed Bump (City detail 17-A)	EA	0	0	0	0	0	0	0	0	0	0
43	Remove/Install Speed Bump (Modified City detail 17-A 12' section)	EA	0	0	0	0	0	0	0	0	2	0
44	6" AC Dike	LF	0	0	0	0	0	0	0	0	0	0

2018	Pavement Maintenance Project												
Engineer's Estimate - \$3,000,000.00													
		AREA #	19	19	19	19	2	2	21	21	22	22	22
Estimated Quantities			OVERLAY	OVERLAY	OVERLAY	OVERLAY	OVERLAY	OVERLAY	OVERLAY	OVERLAY	OVERLAY	OVERLAY	OVERLAY
BID ITEM NO.	BID ITEM	UNIT	Clifford Ct (Clifford to End)	Clifford Dr (E Estates to Blaney)	La Mar Ct (E Estates to End)	E Estates Dr (Lindenbrook to Vicksburg)	Alves Dr (Stelling to Saich)	Mariani Ave (Bandlely to De Anza)	Phil Ct (Phil to End)	Phil Ln (Miller to Tantau)	Johnson Ave (Wunderlich to Barnhart)	Stern Ave (Tilson to Loree)	Wunderlich (Bollinger to Gascoigne)
		AREA	4232	51180	7300	118570	42840	19909	5800	67382	39018	41000	41648
1	Traffic Control	LS		---				---					---
2	Leveling Course -No. 4 Hot Mix Asphalt Type A	TN	13	154	22	356	129	60	17	202	117	123	125
3	Hot Mix Asphalt, 1/2" Maximum Type A	TN	54	653	93	1,512	546	254	74	859	497	523	531
4	Pavement Fabric	SY	470	5,687	811	13,174	4,760	2,212	644	7,487	4,335	4,556	4,628
5	Keycut A	LF	280	3000	400	6000	2300	1000	350	3094	2000	2100	2200
6	keycut B	LF	0	400	60	450	120	120	60	240	110	130	110
7	Dig Out 6" AC	SY	0	0	0	0	0	0	0	0	0	0	0
8	Adjust Survey Monument Cover to Finish Grade	EA	1	8	2	16	5	0	1	3	2	2	6
9	Replace Monument Box	EA	0	0		0	0	0	0		0		
10	Lower Manhole Covers Prior to Cold Planing	EA	0	0	0	6	0	2	0	8	0	0	2
11	Lower Cleanout / Water / Gas Valve Cover Prior to Cold	EA	0	0	1	3	3	0	0	2	0	0	0
12	Adjust Manhole Covers to Finish Grade	EA	1	10	1	16	8	5	2	15	0	1	4
13	Adjust Cleanout / Water / Gas Valve Cover to Finish Gra	EA	0	0	1	3	3	0	0	2	0	0	0
14	Install Blue RPM's @ Fire Hydrant	EA	0	2	0	4	4	1	0	3	0	2	1
15	6" White Lines (Thermo)	LF	0	0	0	0		0	0	0	0	0	0
16	12" White Hatch (Thermo)	LF	0	0	0	0	140	0	0	0	0	0	0
17	12" White Crosswalk/Limit Line (Thermo)	LF	0	120	0	300	0	60	0	240	40	50	0
18	12" Yellow Crosswalk (Thermo)	LF	0	0	0	0	0	0	0	250	0	0	0
19	24" White (Thermo)	LF	0	0	0	0	0	140	0	0	0	0	0
20	24" Yellow (Thermo)	LF	0	130	0	0	0	0	0	0	0	0	0
21	Striping Detail #10 (Markers	LF	0	0	0	0	0	0	0	0	0	0	0
22	Striping Detail # 22 (Thermo & Markers)	LF	0	180	0	2220	740	0	0	200	0	0	0
23	Striping Detail 38	LF	0	0	0	0	0	0	0	30'	0	0	0
24	Striping Detail # 39 (Thermo)	LF	0	0	0	0	0	0	0	0	0	0	0
25	Striping Detail # 39A (Thermo)	LF	0	0	0	0	0	0	0	0	0	0	0
26	Striping Detail # 40A (Thermo)	LF	0	0	0	0	0	40	0	0	0	0	0
27	"Ahead Legend" Yellow (Pre-formed thermo)	EA	0	0	0	1	0	0	0	0	0	0	0
28	"STOP" Legend (Pre-formed Thermo)	EA	0	2	1	8	0	1	0	5	1	2	1
29	"SLOW" Legend (Pre-formed Thermo)	EA	0	0	0	0	0	0	0	1	0	0	0
30	"SCHOOL" Legend (Pre-formed Thermo)	EA	0	0	0	0	0	0	0	1	0	0	0
31	"XING" Legned (Pre-formed Thermo)	EA	0	0	0	0	0	0	0	1	0	0	0
32	"25" Legend (Pre-formed Thermo)	EA	0	1	0	1	0	1	0	1	0	0	1
33	"YIELD" Legend (Pre-formed Thermo)	EA	0	0	0	0	0	0	0	0	0	0	0
34	"BUMP" Legend (Pre-formed Thermo)	EA	0	0	0	4	0	0	0	0	0	4	0
35	Bike Rider Symbol and Arrow Left Facing (Preformed Th	EA	0	0	0	0	0	0	0	0	0	0	0
36	Green Bike Lane (Pre-formed Thermo)	SF	0	0	0	0	0	0	0	0	0	0	0
37	Bike Rider Symbol Left Facing (Pre-formed white on gre	EA	0	0	0	0	0	0	0	0	0	0	0
38	Bike Rider Arrow (Pre-Formed white on green)	EA	0	0	0	0	0	0	0	0	0	0	0
39	Arrow Type III (Pre-formed Thermo)	EA						1	0	0	0	0	0
40	Arrow Type IV (Pre-formed Thermo)	EA	0	0	0	0	0	2	0	3	0	0	0
41	Replace Traffic Signal Loops	EA	0	0	0	0	0	12	0	8	0	0	0
42	Remove/Install Speed Bump (City detail 17-A)	EA	0	0	0	0	0	0	0	0	0	0	0
43	Remove/Install Speed Bump (Modified City detail 17-A 12' section)	EA	0	0	0	2	1	0	0	0	0	2	0
44	6" AC Dike	LF	0	0	0	0	0	0	0	0	0	0	0

Estimated Quantities -

2018	Pavement Maintenance Project												
Engineer's Estimate - \$3,000,000.00													
		AREA #	26	27	27	29	31	31	31	32	33	33	36
Estimated Quantities			OVERLAY	Overlay	OVERLAY	OVERLAY	OVERLAY	OVERLAY	OVERLAY	OVERLAY	OVERLAY	OVERLAY	OVERLAY
BID ITEM NO.	BID ITEM	UNIT	Merritt Dr (N Portal to E End)	Plum Tree (Merritt to Forest)	Vista Ct (Vista to End)	Franco Ct (Homestead to 310' South of Homestead)	Adriana Ave (Mann to End)	Florence (Phar Lap to End)	Phar Lap Dr (Madera to Stevens Creek)	Crescent Rd (Hillcrest to Cupertino Rd)	Cass Place (Janice to End)	Ramona Ct (Janice to End)	McKlintock Ln (Voss to Woodridge)
		AREA	38000	48322	8103	12000	39,373	19266	100735	33000	17,500	24,920	11,620
1	Traffic Control	LS	---					---	---	---			
2	Leveling Course -No. 4 Hot Mix Asphalt Type A	TN	114	145	24	36	118	58	302	99	53	75	35
3	Hot Mix Asphalt, 1/2" Maximum Type A	TN	485	616	103	153	502	246	1,284	421	223	318	148
4	Pavement Fabric	SY	4,222	5,369	900	1,333	4,375	2,141	11,193	3,667	1,944	2,769	1,291
5	Keycut A	LF	1684	2250	510	620	2050	1100	4860	2000	930	1300	900
6	keycut B	LF	226	230	60	108	36	60	420	240	60	70	80
7	Dig Out 6" AC	SY	0	0	0	0	0	0	0	0	0	0	0
8	Adjust Survey Monument Cover to Finish Grade	EA	3	5	1	0			22		1	4	0
9	Replace Monument Box	EA		0	0	0			0				0
10	Lower Manhole Covers Prior to Cold Planing	EA	0	0	0	0	0	2	3	6	2	0	0
11	Lower Cleanout / Water / Gas Valve Cover Prior to Cold	EA	0	0	0	0	3	0	0	1	1	2	0
12	Adjust Manhole Covers to Finish Grade	EA	8	4	1	0	2	2	14	7	5	4	1
13	Adjust Cleanout / Water / Gas Valve Cover to Finish Gra	EA	0	0	0	0	3	0	0	3	1	2	0
14	Install Blue RPM's @ Fire Hydrant	EA	1	1	0	0	2	1	3	2	0	1	0
15	6" White Lines (Thermo)	LF	0	0	0	0	0	0	0	0	0	0	0
16	12" White Hatch (Thermo)	LF	0	0	0	0	0	0	0	0	0	0	0
17	12" White Crosswalk/Limit Line (Thermo)	LF	110	0	0	130	20	0	25	0	30	0	0
18	12" Yellow Crosswalk (Thermo)	LF	0	50	0	0	0	0	0	0	0	0	0
19	24" White (Thermo)	LF	0	0	0	0	0	0	190	0	0	0	0
20	24" Yellow (Thermo)	LF	0	0	0	0	0	0	0	0	0	0	0
21	Striping Detail #10 (Markers	LF	0	0	0	0	0	0	0	0	0	0	0
22	Striping Detail # 22 (Thermo & Markers)	LF	0	420	0	50	250	0	150	90	0	0	0
23	Striping Detail 38	LF	0	0	0	40	0	0	0	0	0	0	0
24	Striping Detail # 39 (Thermo)	LF	0	0	0	0	0	0	0	0	0	0	0
25	Striping Detail # 39A (Thermo)	LF	0	0	0	0	0	0	0	0	0	0	0
26	Striping Detail # 40A (Thermo)	LF	0	0	0	0	0	0	0	0	0	0	0
27	"Ahead Legend" Yellow (Pre-formed thermo)	EA	0	0	0	0	0	0	0	0	0	0	0
28	"STOP" Legend (Pre-formed Thermo)	EA	1	1	0	0	0	0	1	0	1	0	0
29	"SLOW" Legend (Pre-formed Thermo)	EA	0	0	0	0	0	0	0	0	0	0	0
30	"SCHOOL" Legend (Pre-formed Thermo)	EA	0	0	0	0	0	0	0	0	0	0	0
31	"XING" Legned (Pre-formed Thermo)	EA	0	0	0	0	0	0	0	0	0	0	0
32	"25" Legend (Pre-formed Thermo)	EA	0	0	0	0	0	0	1	0	0	0	0
33	"YIELD" Legend (Pre-formed Thermo)	EA	0	0	0	0	1	0	0	0	0	0	0
34	"BUMP" Legend (Pre-formed Thermo)	EA	0	0	0	0	0	0	0	0	0	0	0
35	Bike Rider Symbol and Arrow Left Facing (Preformed Th	EA	0	0	0	0	0	0	0	0	0	0	0
36	Green Bike Lane (Pre-formed Thermo)	SF	0	0	0	0	0	0	0	0	0	0	0
37	Bike Rider Symbol Left Facing (Pre-formed white on gre	EA	0	0	0	0	0	0	0	0	0	0	0
38	Bike Rider Arrow (Pre-Formed white on green)	EA	0	0	0	0	0	0	0	0	0	0	0
39	Arrow Type III (Pre-formed Thermo)	EA	0	0	0	0	0	0	0	0	0	0	0
40	Arrow Type IV (Pre-formed Thermo)	EA	0	0	0	1	0	0	0	0	0	0	0
41	Replace Traffic Signal Loops	EA	0	0	0	0	0	0	0	0	0	0	0
42	Remove/Install Speed Bump (City detail 17-A)	EA	0	0	0	0	0	0	0	0	0	0	0
43	Remove/Install Speed Bump (Modified City detail 17-A 12' section)	EA	0	0	0	0	0	0	0	0	0	0	0
44	6" AC Dike	LF	0	0	0	0	0	0	0	0	0	0	

Estimated Quantities -

2018	Pavement Maintenance Project												
Engineer's Estimate - \$3,000,000.00													
		AREA #	6	6	6	6	6	6	6	6	6	6	21
Estimated Quantities			OVERLAY	Overlay	OVERLAY	OVERLAY	OVERLAY	OVERLAY	OVERLAY	OVERLAY	OVERLAY	OVERLAY	6" Dig Outs
BID ITEM NO.	BID ITEM	UNIT	Derbyshire (Orion to Robindell)	Festival Dr (Orogrande to November)	Lunar Ct (Derbyshire to End)	Milky Way (Orion to Derbyshire)	Obsidian Ct (Orogrande to End)	Orion Ln (Stelling to Milky Way)	Orion PI (Orion to End)	Orogrande PI (Stelling to End)	Robindell Way (Stelling to End)	Squirehill Ct (Stelling to End)	Tantau Ave (Various Locations)
		AREA	37,232	10,117	6,922	31,576	6,006	32,663	8,000	26,288	37,399	19,976	2,122
1	Traffic Control	LS											
2	Leveling Course -No. 4 Hot Mix Asphalt Type A	TN	112	30	21	95	18	98	24	79	112	60	0
3	Hot Mix Asphalt, 1/2" Maximum Type A	TN	475	129	88	403	77	416	102	335	477	255	80
4	Pavement Fabric	SY	4,137	1,124	769	3,508	667	3,629	889	2,921	4,155	2,220	0
5	Keycut A	LF	2200	660	400	1950	400	1950	470	1400	2100	1100	0
6	keycut B	LF	140	100	70	150	0	170	0	140	140	70	0
7	Dig Out 6" AC	SY	0	0	0	0	0	0	0	0	0	0	236
8	Adjust Survey Monument Cover to Finish Grade	EA	3	3	1	2	1	3	1	7	4	4	1
9	Replace Monument Box	EA	0	0	0	0	0	0	0	0	0	0	0
10	Lower Manhole Covers Prior to Cold Planing	EA	0	0	0	0	0	2	0	0	0	1	1
11	Lower Cleanout / Water / Gas Valve Cover Prior to Cold	EA	1	0	0	0	0	0	0	2	0	2	0
12	Adjust Manhole Covers to Finish Grade	EA	6	3	1	7	1	6	2	2	4	4	1
13	Adjust Cleanout / Water / Gas Valve Cover to Finish Gra	EA	1	0	0	0	0	0	0	2	0	2	0
14	Install Blue RPM's @ Fire Hydrant	EA	2	0	0	1	0	1	0	1	0	0	0
15	6" White Lines (Thermo)	LF	0	0	0	0	0	0	0	0	0	0	0
16	12" White Hatch (Thermo)	LF	0	0	0	0	0	0	0	0	0	0	0
17	12" White Crosswalk/Limit Line (Thermo)	LF	0	0	0	0	0	30	0	100	20	20	60
18	12" Yellow Crosswalk (Thermo)	LF	0	0	0	0	0	0	0	0	0	0	0
19	24" White (Thermo)	LF	0	0	0	0	0	0	0	0	0	0	0
20	24" Yellow (Thermo)	LF	0	0	0	0	0	0	0	0	0	0	0
21	Striping Detail #10 (Markers	LF	0	0	0	0	0	0	0	0	0	0	0
22	Striping Detail # 22 (Thermo & Markers)	LF	0	0	0	0	0	0	0	40	0	0	0
23	Striping Detail 38	LF	0	0	0	0	0	0	0	0	0	0	0
24	Striping Detail # 39 (Thermo)	LF	0	0	0	0	0	0	0	0	0	0	0
25	Striping Detail # 39A (Thermo)	LF	0	0	0	0	0	0	0	0	0	0	0
26	Striping Detail # 40A (Thermo)	LF	0	0	0	0	0	0	0	0	0	0	0
27	"Ahead Legend" Yellow (Pre-formed thermo)	EA	0	0	0	0	0	0	0	0	0	0	0
28	"STOP" Legend (Pre-formed Thermo)	EA	0	0	0	0	0	1	0	1	1	1	1
29	"SLOW" Legend (Pre-formed Thermo)	EA	0	0	0	0	0	0	0	0	0	0	0
30	"SCHOOL" Legend (Pre-formed Thermo)	EA	0	0	0	0	0	0	0	0	0	0	0
31	"XING" Legned (Pre-formed Thermo)	EA	0	0	0	0	0	0	0	0	0	0	0
32	"25" Legend (Pre-formed Thermo)	EA	0	0	0	0	0	1	0	1	1	0	0
33	"YIELD" Legend (Pre-formed Thermo)	EA	0	0	0	0	0	0	0	0	0	0	0
34	"BUMP" Legend (Pre-formed Thermo)	EA	0	0	0	0	0	0	0	0	0	0	0
35	Bike Rider Symbol and Arrow Left Facing (Preformed Th	EA	0	0	0	0	0	0	0	0	0	0	0
36	Green Bike Lane (Pre-formed Thermo)	SF	0	0	0	0	0	0	0	0	0	0	0
37	Bike Rider Symbol Left Facing (Pre-formed white on gre	EA	0	0	0	0	0	0	0	0	0	0	0
38	Bike Rider Arrow (Pre-Formed white on green)	EA	0	0	0	0	0	0	0	0	0	0	0
39	Arrow Type III (Pre-formed Thermo)	EA	0	0	0	0	0	0	0	0	0	0	0
40	Arrow Type IV (Pre-formed Thermo)	EA	0	0	0	0	0	0	0	0	0	0	0
41	Replace Traffic Signal Loops	EA	0	0	0	0	0	0	0	0	0	0	0
42	Remove/Install Speed Bump (City detail 17-A)	EA	0	0	0	0	0	0	0	0	0	0	0
43	Remove/Install Speed Bump (Modified City detail 17-A 12' section)	EA	0	0	0	0	0	0	0	0	0	0	0
44	6" AC Dike	LF	0	0	0	0	0	0	0	0	0	0	0

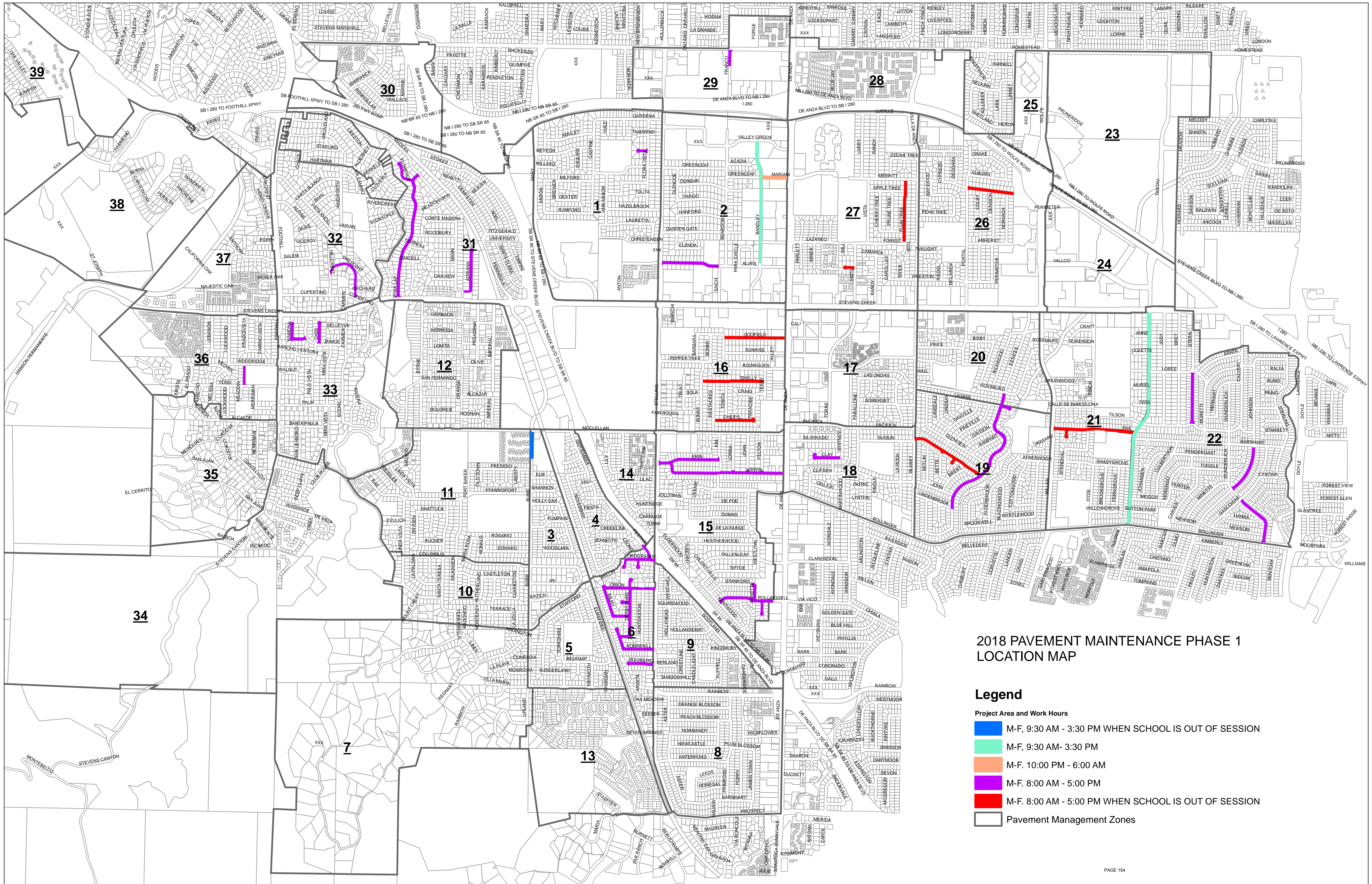
2018	Pavement Maintenance Project					
Engineer's Estimate - \$3,000,000.00						
		AREA #	2	11	27	
Estimated Quantities			6" Dig Outs	6" Dig Outs	GREEN BIKE LANES	
BID ITEM NO.	BID ITEM	UNIT	Bandley Dr (Various Locations)	Bubb Rd @ McClellan (Various Locations)	N Blaney at Collins School	TOTAL
		AREA	2,454	2,996		
1	Traffic Control	LS				1
2	Leveling Course -No. 4 Hot Mix Asphalt Type A	TN	0	0	0	4,088
3	Hot Mix Asphalt, 1/2" Maximum Type A	TN	92	112	0	17,657
4	Pavement Fabric	SY	0	0	0	151,238
5	Keycut A	LF	0	0	0	71,018
6	keycut B	LF	0	0	0	5,750
7	Dig Out 6" AC	SY	273	333	0	841
8	Adjust Survey Monument Cover to Finish Grade	EA	0	0	0	155
9	Replace Monument Box	EA	0	0	0	0
10	Lower Manhole Covers Prior to Cold Planing	EA	0	1	0	51
11	Lower Cleanout / Water / Gas Valve Cover Prior to Cold	EA	1	0	0	26
12	Adjust Manhole Covers to Finish Grade	EA	0	1	0	200
13	Adjust Cleanout / Water / Gas Valve Cover to Finish Gra	EA	1	0	0	29
14	Install Blue RPM's @ Fire Hydrant	EA	0	0	0	48
15	6" White Lines (Thermo)	LF	0	0	0	210
16	12" White Hatch (Thermo)	LF	0	0	0	140
17	12" White Crosswalk/Limit Line (Thermo)	LF	0	0	0	1,540
18	12" Yellow Crosswalk (Thermo)	LF	0	0	0	300
19	24" White (Thermo)	LF	80	0	0	410
20	24" Yellow (Thermo)	LF	0	80	0	210
21	Striping Detail #10 (Markers	LF	0	0	0	0
22	Striping Detail # 22 (Thermo & Markers)	LF	0	0	0	5,550
23	Striping Detail 38	LF	0	0	0	40
24	Striping Detail # 39 (Thermo)	LF	0	0	0	0
25	Striping Detail # 39A (Thermo)	LF	0	0	0	0
26	Striping Detail # 40A (Thermo)	LF	0	0	0	40
27	"Ahead Legend" Yellow (Pre-formed thermo)	EA	0	0	0	3
28	"STOP" Legend (Pre-formed Thermo)	EA	0	0	0	39
29	"SLOW" Legend (Pre-formed Thermo)	EA	0	0	0	1
30	"SCHOOL" Legend (Pre-formed Thermo)	EA	0	0	0	1
31	"XING" Legned (Pre-formed Thermo)	EA	0	0	0	1
32	"25" Legend (Pre-formed Thermo)	EA	0	0	0	11
33	"YIELD" Legend (Pre-formed Thermo)	EA	0	0	0	2
34	"BUMP" Legend (Pre-formed Thermo)	EA	0	0	0	12
35	Bike Rider Symbol and Arrow Left Facing (Preformed Th	EA	0	0	0	0
36	Green Bike Lane (Pre-formed Thermo)	SF	0	0	1,500	1,500
37	Bike Rider Symbol Left Facing (Pre-formed white on gre	EA	0	0	1	1
38	Bike Rider Arrow (Pre-Formed white on green)	EA	0	0	1	1
39	Arrow Type III (Pre-formed Thermo)	EA	0	0	0	1
40	Arrow Type IV (Pre-formed Thermo)	EA	0	2	0	8
41	Replace Traffic Signal Loops	EA	0	8	0	28
42	Remove/Install Speed Bump (City detail 17-A)	EA	0	0	0	0
43	Remove/Install Speed Bump (Modified City detail 17-A 12' section)	EA	0	0	0	7
44	6" AC Dike	LF	0	0	0	150

WORK HOUR RESTRICTIONS

Street Name	From	To	NOTES
LAVINA CT	FLORA VISTA	END	M-F 8:00 AM - 5:00 PM
ANNETTE WY	STANFORD	ROLLINGDELL	M-F 8:00 AM - 5:00 PM
ERIN WY	STELLING	KIM	M-F 8:00 AM - 5:00 PM
KIRWIN LN	DE ANZA	LONNA	M-F 8:00 AM - 5:00 PM
KIRWIN LN	LONNA	ERIN	M-F 8:00 AM - 5:00 PM
ROLLINGDELL CT	ROLLINGDELL	END	M-F 8:00 AM - 5:00 PM
ROLLINGDELL DR	200' W/O S DE ANZA	ANNETTE	M-F 8:00 AM - 5:00 PM
ROLLINGDELL DR	ANNETTE	KENTWOOD	M-F 8:00 AM - 5:00 PM
CHERYL DR	PARADISE	WESTACRES	M-F 8:00 AM - 5:00 PM When School is out of Session
SHELLY DR	BONNY	TERRY	M-F 8:00 AM - 5:00 PM When School is out of Session
CLAY ST	WHITNEY	END	M-F 8:00 AM - 5:00 PM
E ESTATES DR	VICKSBURG	LA MAR	M-F 8:00 AM - 5:00 PM
LA MAR CT	E ESTATES	END	M-F 8:00 AM - 5:00 PM
ALVES DR	STELLING	SAICH	M-F 8:00 AM - 5:00 PM
MARIANI AVE	BANDLEY	DE ANZA	M-F 10 PM - 6 AM
PHIL CT	PHIL	END	M-F 8:00 AM - 5:00 PM When School is out of Session
PHIL LN	FINCH	TANTAU	M-F 8:00 AM - 5:00 PM When School is out of Session
PHIL LN	MILLER	FINCH	M-F 8:00 AM - 5:00 PM When School is out of Session
JOHNSON AVE	WUNDERLICH	BARNHART	M-F 8:00 AM - 5:00 PM
STERN AVE	TILSON	LOREE	M-F 8:00 AM - 5:00 PM
WUNDERLICH DR	BOLLINGER	GASCOIGNE	M-F 8:00 AM - 5:00 PM
MERRITT DR	BLANEY	EAST END	M-F 8:00 AM - 5:00 PM When School is out of Session
PLUM TREE LN	MERRITT	FOREST	M-F 8:00 AM - 5:00 PM When School is out of Session
VISTA CT	N PORTAL	END	M-F 8:00 AM - 5:00 PM When School is out of Session
ADRIANA AVE	MANN	END	M-F 8:00 AM - 5:00 PM
FLORENCE DR	PHAR LAP	END	M-F 8:00 AM - 5:00 PM
PHAR LAP DR	MADERA	STEVENS CREEK	M-F 8:00 AM - 5:00 PM
CRESCENT RD	CRESCENT CT	CUPERTINO	M-F 8:00 AM - 5:00 PM
CASS PL	JANICE	END	M-F 8:00 AM - 5:00 PM
RAMONA CT	JANICE	END	M-F 8:00 AM - 5:00 PM
MC KLINTOCK LN	VOSS	WOODRIDGE	M-F 8:00 AM - 5:00 PM
DERBYSHIRE DR	ORION	ROBINDELL	M-F 8:00 AM - 5:00 PM
FESTIVAL DR	OROGRANDE	NOVEMBER DR.	M-F 8:00 AM - 5:00 PM
LUNAR CT	DERBYSHIRE	END	M-F 8:00 AM - 5:00 PM
MILKY WY	ORION	DERBYSHIRE	M-F 8:00 AM - 5:00 PM
OBSIDIAN CT	OROGRANDE	END	M-F 8:00 AM - 5:00 PM
ORION LN	STELLING	MILKY WAY	M-F 8:00 AM - 5:00 PM
ORION PL	ORION	END	M-F 8:00 AM - 5:00 PM

WORK HOUR RESTRICTIONS

OROGRANDE PL	STELLING	END	M-F 8:00 AM - 5:00 PM
ROBINDELL WY	STELLING	END	M-F 8:00 AM - 5:00 PM
SQUIREHILL CT	STELLING	END	M-F 8:00 AM - 5:00 PM
Bandley Ave	Valley Green	Alves	M-F 9:30 AM - 3:30 PM
Bubb Rd	McClellan Rd		M-F 9:30 AM - 3:30 PM When School is out of Session
S Tantau Ave	Stevens Creek Blvd	Bollinger Rd	M-F 9:30 AM - 3:30 PM
CLIFFORD CT	CLIFFORD	END	M-F 8:00 AM - 5:00 PM When School is out of Session
CLIFFORD DR	E ESTATES	BLANEY	M-F 8:00 AM - 5:00 PM When School is out of Session
SCOFIELD DR	WESTERN	DE ANZA	M-F 8:00 AM - 5:00 PM When School is out of Session



2018 PAVEMENT MAINTENANCE PHASE 1
LOCATION MAP

Legend

Project Area and Work Hours

- M-F, 9:30 AM - 3:30 PM WHEN SCHOOL IS OUT OF SESSION
- M-F, 9:30 AM - 3:30 PM
- M-F, 10:00 PM - 6:00 AM
- M-F, 8:00 AM - 5:00 PM
- M-F, 8:00 AM - 5:00 PM WHEN SCHOOL IS OUT OF SESSION
- Pavement Management Zones