

CITY OF LAFAYETTE

3675 Mt. Diablo Boulevard, Suite 210

(925) 284-1951

www.ci.lafayette.ca.us



NOTICE TO CONTRACTORS BID PROPOSAL CONTRACT AGREEMENT CONTRACT SPECIAL PROVISIONS

FOR

CITY OF LAFAYETTE 2014 ROAD REHABILITATION PROJECT

Project No. 014-9698

**Bid Opening Date
Thursday, May 1, 2014, 2:30 p.m.**

TABLE OF CONTENTS

	<u>Page No.</u>
NOTICE TO CONTRACTORS	N-1
BID PROPOSAL	P-1
BID SCHEDULE.....	P-2
PROPOSAL GUARANTEE “BID BOND” WITH NOTORIZED SHEETS	P-7
PROPOSAL SIGNATURE SHEET	P-8
CONTRACT AGREEMENT FOR CONSTRUCTION	C-1
PAYMENT BOND.....	C-4
PERFORMANCE BOND	C-5
SPECIAL PROVISIONS	
SECTION SP-1 – GENERAL.....	S-1
SECTION SP-2 – NOT USED.....	S-1
SECTION SP-3 – NOT USED.....	S-1
SECTION SP-4 – PLANS AND SPECIFICATIONS (GENERAL).....	S-2
SECTION SP-5 – CONTROL OF WORK AND MATERIALS.....	S-2
SECTION SP-6 – LEGAL RELATIONS AND RESPONSIBILITIES.....	S-5
SECTION SP-7 – UTILITY PROTECTION.....	S-6
SECTION SP-8 – PROGRESS OF WORK.....	S-7
SECTION SP-9 – NOT USED.....	S-8
SECTION SP-10– NOT USED.....	S-8
SECTION SP-11– NOT USED.....	S-8
SECTION SP-12– MOBILIZATION	S-9
SECTION SP-13– CONSTRUCTION AREA SIGNS	S-9
SECTION SP-14– TRAFFIC CONTROL, AND TEMPORARY PAVEMENT DELINEATION	S-10
SECTION SP-15– DUST CONTROL.....	S-12
SECTION SP-16– CLEARING AND GRUBBING, TREE TRIMMING, AND TREE PROTECTION .	S-12
SECTION SP-17– EXISTING HIGHWAY FACILITIES	S-13
SECTION SP-18– FULL-DEPTH ASPHALT CONCRETE RECYCLING	S-18
SECTION SP-19– AGGREGATE BASE.....	S-19
SECTION SP-20– EXCAVATIONS.....	S-20
SECTION SP-21– COLD PLANING.....	S-21
SECTION SP-22– ASPHALT CONCRETE	S-22

Table of Contents

SECTION SP-23– CRACK FILL REPAIR.....S-24
SECTION SP-24– CONCRETE CONSTRUCTIONS-24
SECTION SP-25– REPLACE METAL BEAM GUARD RAIL.....S-27
SECTION SP-26– NOT USED.....S-28
SECTION SP-27– NOT USED.....S-28
SECTION SP-28– PAVEMENT STRIPING, MARKERS AND DELINEATIONS-28
SECTION SP-29– SURVEY MONUMENT.....S-29
SECTION SP-30– MISCELLANEOUS CONSTRUCTIONS-29
SECTION SP-31– TRAFFIC SIGN.....S-32

APPENDIX A: WASTE MANAGEMENT PLAN INSTRUCTIONS

APPENDIX B: STANDARD PLANS

NOTICE TO CONTRACTORS

Sealed proposals will be accepted at the office of the City Clerk, 3675 Mt. Diablo Boulevard, Suite 210, Lafayette, California until 2:30 P.M., Thursday, May 1, 2014, at which time they will be publicly opened and read, for construction of **City of Lafayette, 2014 Road Rehabilitation Project, Project No. 014-9698**, including, but not limited to: mobilization; traffic control and construction signage; potholing utilities; clearing and grubbing including tree protection and trimming; removal and disposal of asphalt concrete pavement and subgrade, concrete and/or asphalt curb, gutter, driveways; pulverizing, mixing, excavating, grading and compacting pavement subgrade and base materials; cement treatment of pulverized material; construction of minor concrete structures, concrete and/or asphalt curb, gutter, driveways,, crack seal, asphalt pavement repairs, asphalt concrete pavement, guard rail, vehicle detection loops, pedestrian push button, traffic stripes, markers, and markings; adjustment of utility covers; installation of survey monuments; and all other work as shown on the Plans and as described in the Specifications to provide a complete project.

The Engineer's cost estimate is \$2,000,000.

Beginning April 14, contract documents, including the Plans and Specifications, may be obtained at the City of Lafayette Engineering Services Division. The cost of Plans and Special Provisions is \$75 per set. The cost of mailing is an additional \$14 per set. A link to electronic bid documents may be obtained free of charge by contacting the Engineering Secretary at (925)284-1951.

This project shall be constructed in accordance with the March 2013 edition of the City of Lafayette Standard Specifications, which may be obtained at the City of Lafayette Engineering Services Division. The cost of the Standard Specifications is \$20 per set. The cost of mailing is an additional \$8. If you already have the Standard Specifications (dated March 2013), you do not need to purchase a new copy.

Bids shall be submitted in a sealed envelope titled "**Proposal: City of Lafayette, 2014 Road Rehabilitation Project, Project No. 014-9698**".

The Contractor shall possess a Class "A" license at the time this contract is awarded.

Bidder's attention is directed to requirements in Sections 2 and 3 of the Standard Specifications General Provisions.

All bids shall be accompanied by a cashier's or certified check, or a bidder's bond executed by a corporate surety insurer. The bidder's guarantee shall be in the amount equal to at least ten (10) percent of the total bid and shall be made payable to the City of Lafayette. The successful bidder shall furnish a payment bond and a performance bond.

The City of Lafayette reserves the right to waive any informalities or to reject any or all bids.

The City Council has ascertained the General Prevailing Rates of Wages applicable to this work, and these rates are on file in the office of the City of Lafayette Engineering Services Division.

Time of completion allowed for this project will be 75 working days. Bidder's attention is directed to the order of work stated in Section 5 of the Special Provisions.

Questions regarding the project Plans or Specifications may be directed to Matt Luttrupp, City Engineer's Office, (925) 299-3247.

The plan holders list, as well as the City Standard Specifications, the Project Special Provisions and the General Prevailing Rates of Wages applicable to this work may be downloaded free of charge from the City of Lafayette web page at <http://www.ci.lafayette.ca.us> (click on *Public Works and Construction* under the Quick Links sidebar on the homepage, then *City Construction Projects*; the **2014 Road Rehabilitation Project** is accessible under *Projects Out to Bid*). Or you may contact the Engineering Assistant at (925) 299-3217.

Date: March 26, 2014

CITY OF LAFAYETTE



Tony Coe, City Engineer

**CITY OF LAFAYETTE
CALIFORNIA**

BID PROPOSAL

2014 ROAD REHABILITATION PROJECT

PROJECT NO. 014-9698

TO THE CITY COUNCIL OF THE CITY OF LAFAYETTE:

In compliance with the annexed notice inviting sealed proposals, the undersigned bidder hereby proposes and agrees to perform the work therein described and to furnish all labor, materials and equipment necessary therefor, in accordance with the Plans and Specifications therefor, and further agrees to enter into a contract therefor, at the following prices:

<u>ITEM NO.</u>	<u>ITEM DESCRIPTION</u>	<u>ESTIMATED QUANTITY</u>	<u>UNIT</u>	<u>UNIT PRICE</u>	<u>TOTAL</u>
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(SEE ATTACHED BID SCHEDULE)

- NOTES:
- All unit prices shall be considered the prices for providing a complete, in-place facility.
 - In the event of a discrepancy between the unit price and item total on the Bid Schedule, the unit price shall be used.

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Bidder acknowledges the receipt of the following addenda to the drawings and specifications.

<u>Addendum No.</u>	<u>Date</u>	<u>Addendum No.</u>	<u>Date</u>
_____	_____	_____	_____
_____	_____	_____	_____

o o o

**2014 ROAD REHABILITATION PROJECT
PROJECT NO. 014-9698
BID SCHEDULE**

ITEM NO.	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
1	Mobilization (SP-12)	1	LS		
2	Project Identification Signs (City Furnished) (SP-12)	14	EA		
3	Construction Area Signs (SP-13)	10	EA		
4	Traffic Control (SP-14)	1	LS		
5	Clearing and Grubbing, Tree Trimming, and Tree Protection (SP-16)	1	LS		
6	Lower Existing Manhole or Rodding Inlet Frame (SP-17)	52	EA		
7	Adjust Existing Manhole or Rodding Inlet Frame and Cover to Grade (SP-17)	52	EA		
8	Lower Existing Utility Valve Frame and Cover (SP-17)	43	EA		
9	Adjust Existing Water Valve Frame and Cover to Grade With G5 Box (SP-17)	42	EA		
10	Adjust Existing Utility Valve Cover to Grade with Grade Rings (SP-17)	2	EA		
11	Adjust Utility Box to Grade (SP-17)	6	EA		
12	Remove Asphalt Concrete Driveway, Pathway, or Shoulder (SP-17)	1,712	SF		
13	Remove Concrete Curb and Gutter (SP-17)	1,581	LF		
14	Remove Concrete Driveway, Sidewalk, or Shoulder (SP-17)	2,552	SF		
15	Remove Concrete Valley Gutter (SP-17)	502	SF		
16	Remove Gutter Obstruction (SP-17)	25	LF		
17	Sawcut Gutter Lip to Clean Neat Edge (SP-17)	67	LF		
18	Grind Concrete Sidewalk (SP-17)	112	LF		
19	Relocate Mailbox on New Post (SP-17)	1	EA		
20	Concrete Curb and Gutter (SP-24)	1,715	LF		
21	Not Included (SP-24)	-	LF		
22	Concrete Driveway (SP-24)	241	SF		
23	Concrete Sidewalk (SP-24)	1,073	SF		
24	Concrete Curb Ramp with Detectable Panel (SP-24)	1,273	SF		
25	Concrete Valley Gutter (SP-24)	502	SF		
26	Remove and Replace Type 'A' Inlet Top (SP-24)	5	EA		
27	Remove and Replace Type 'B' Inlet Top (SP-24)	12	EA		
28	Remove Type 'C' Inlet Top and Replace with Type 'A' Inlet Top (SP-24)	3	EA		
29	Re-route Existing Private Drain Line (SP-30)	1	LS		

2014 ROAD REHABILITATION PROJECT
PROJECT NO. 014-9698
BID SCHEDULE

ITEM NO.	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
30	Full-Depth Asphalt Concrete Recycling (SP-18)	11,029	CY		
31	Roadway Excavation (SP-20)	3,434 (F)	CY		
32	Asphalt Concrete Conform Grind (SP-21)	587	SY		
33	Asphalt Concrete Inlay Grind (SP-21)	929	CY		
34	Cement Treat Pulverized Base Material (SP-18)	6,302	CY		
35	6-Inch Pavement Repair (SP-22)	4,602	SF		
36	4-Inch Pavement Repair (SP-22)	6,437	SF		
37	Asphalt Concrete Pavement (SP-22)	8,809	TONS		
38	Asphalt Concrete Pavement-Open Graded (SP-22)	549	TONS		
39	AC Driveway or Pathway on Existing Base Material (SP-22)	1,120	SF		
40	AC Driveway or Pathway on New Base Material (SP-22)	40	SF		
41	Confrom Pave Driveways and Shoulder (SP-22)	1,666	SF		
42	Asphalt Berm (SP-22)	156	LF		
43	Crack Fill Repair (SP-23)	1	LS		
44	Replace Metal Beam Guard Rail (SP-25)	105	LF		
45	Not Included (SP-30)	-	LS		
46	Vehicle Detection Loops (SP-30)	8	EA		
47	Temporary Pavement Delineation (SP-14)	1	LS		
48	Detail 23 - Centerline (SP-28)	3,194	LF		
49	Modified Detail 23- Centerline Reflectors Every 4' (SP-28)	48	LF		
50	Detail 27B -- 4" White Thermoplastic Edge Stripe (SP-28)	5,730	LF		
51	Detail 30-- Median (SP-28)	95	LF		
52	Detail 38 -- Channelizing Line (SP-28)	986	LF		
53	8-Inch Thermoplastic Stripe (SP-28)	30	LF		
54	12-Inch Thermoplastic Stripe (SP-28)	967	LF		
55	Thermoplastic Pavement Legends and Markings (SP-28)	709	SF		
56	Two-Way Reflective Pavement Markers (Blue) (SP-28)	9	EA		
57	Paint Curb Red (SP-28)	80	LF		
58	Install New Monument (SP-29)	33	EA		

**2014 ROAD REHABILITATION PROJECT
PROJECT NO. 014-9698
BID SCHEDULE**

ITEM NO.	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
59	Shoulder Backing (SP-30)	1,390	LF		
60	Re-grade Earth Ditch (SP-30)	290	LF		
61	Relocate Traffic Sign (SP-31)	1	EA		
62	In-Street Ped Crossing Sign (SP-31)	1	EA		
	TOTAL BID				

Bidder agrees that in case of default in executing and returning the required contract and bonds within ten (10) calendar days after having received the contract, proceeds of the guarantee accompanying his bid will become the property of the City of Lafayette.

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In conformance with Subsection 2-13 "Listing of Proposed Subcontractors" of the Standard Specifications, the name and location of the place of business of each subcontractor is as follows:

	<u>NAME</u>	<u>ADDRESS</u>	<u>WORK TO BE PERFORMED</u>
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____

o o o

Bidder certifies that he is licensed in accordance with an act providing for the registration of Contractors as follows:

License No. _____ Class _____

o o o

Bidder certifies that he has not, nor have any of his or its agents, officers, representatives, or employees, been guilty of collusion with any officer or representative of the City of Lafayette or with any other party or parties in the submission of this Proposal; nor has said bidder received any preferential treatment by any officer or employee of the City of Lafayette in the matter of making or submitting this proposal. The undersigned declares under penalty of perjury that the foregoing is true and correct.

o o o

Bidder certifies that there will be no discrimination in employment with regard to race, color, religion, sex, sexual orientation, or national origin; that all Federal, State, and local directives and executive orders regarding nondiscrimination in employment will be complied with and that the principle of equal opportunity in employment will be demonstrated positively and aggressively.

All bidders that have not had a contract with the City of Lafayette during the past three (3) years shall list below previous jobs that they have successfully completed and shall also show the amount of the contract therefor.

Name and Address of Agency or Individual for Whom Work was Done	Phone Number	Date Completed	Contract Price
1.			
2.			
3.			
4.			
5.			
6.			

PROPOSAL GUARANTEE

BID BOND

2014 ROAD REHABILITATION PROJECT

PROJECT NO. 014-9698

KNOW ALL PERSONS BY THESE PRESENTS that _____, as BIDDER, and _____, as SURETY, are held and firmly bound unto City of Lafayette, as Owner, in the penal sum of _____ dollars (\$) which is ten percent of the total amount bid by BIDDER to Owner for the above stated project, for the payment of which sum, BIDDER and SURETY agree to be bound, jointly and severally, firmly by these presents.

THE CONDITIONS OF THIS OBLIGATION ARE SUCH that, whereas BIDDER is about to submit a bid to Owner for the above stated project, if said bid is rejected, or if said bid is accepted and a contract is awarded and entered into by BIDDER in the manner and time specified, then this obligation shall be null and void, otherwise it shall remain in full force and effect in favor of Owner.

IN WITNESS WHEREOF the parties hereto have set their names, titles, hands, and seals this ____ day of _____, 2014.

BIDDER _____

SURETY _____

Subscribed and sworn to this ____ day of _____, 2014.

NOTARY PUBLIC _____

PROPOSAL SIGNATURE SHEET

The completed proposal submitted herewith includes all sheets numbered "P-1 through P-8" at the bottom. The following required attachments have been executed and are included:

- a. Bid Proposal (with Addenda acknowledgement)
- b. Bid Schedule
- c. Proposal Guarantee "Bid Bond" with Notarized Signatures
- d. Proposal Signature Sheet

Legal Name of Firm: _____

Business Address: _____

Telephone Number: () _____

Type of Organization: () Individual () Partnership () Corporation

Joint Venture Proposal?: () Yes () No

Authorized Signature: _____

Name: _____

Position: _____

Date of Execution: _____

For a partnership, name all co-partners below,
For a corporation, name president, secretary, treasurer and manager.

NAME

TITLE

_____	_____
_____	_____
_____	_____
_____	_____

Corporate Seal:

CITY OF LAFAYETTE
CONTRACT AGREEMENT
FOR
CONSTRUCTION

THIS AGREEMENT is made and entered into as of _____, 2014, by and between the CITY OF LAFAYETTE ("City") and _____ ("Contractor").

RECITALS

- A. City desires to retain the services of Contractor to provide services for Construction of **City of Lafayette, 2014 Road Rehabilitation Project, Project No. 014-9698**, including, but not limited to: mobilization; traffic control and construction signage; potholing utilities; clearing and grubbing including tree protection and trimming; removal and disposal of asphalt concrete pavement and subgrade, concrete and/or asphalt curb, gutter, driveways; pulverizing, mixing, excavating, grading and compacting pavement subgrade and base materials; cement treatment of pulverized material; construction of minor concrete structures, concrete and/or asphalt curb, gutter, driveways,, crack seal, asphalt pavement repairs, asphalt concrete pavement, guard rail, vehicle detection loops, pedestrian push button, traffic stripes, markers, and markings; adjustment of utility covers; installation of survey monuments; and all other work as shown on the Plans and as described in the Specifications to provide a complete project..
- B. Contractor has represented to City that it has the expertise, experience and qualifications to perform the services described in Paragraph A, above, and those services which are more fully described below.

NOW, THEREFORE, in consideration of the foregoing and the covenants and agreements set forth below, City and Contractor agree as follow:

1. Contract Documents. The contract documents for the aforesaid project shall consist of the Notice to Contractors, Bid Proposal, General Provisions, Technical Provisions, Special Provisions including appendices, Design Drawings, and all referenced specifications, details, standard drawings, and their appendices; together with this Contract Agreement and all required bonds, insurance certificates, permits, notices and affidavits; and also including any and all addenda or supplemental agreements clarifying, amending, or extending the work contemplated as may be required to insure its completion in an acceptable manner. All of the provisions of said contract documents are made a part hereof as though fully set forth herein.
2. Services. For and in consideration of the payments and agreements to be made and performed by City, Contractor agrees to furnish all materials and perform all work required for the above-stated project, and to fulfill all other obligations as set forth in the aforesaid contract documents. Contractor agrees to receive and accept the prices set forth in the Proposal as full compensation for furnishing all materials, performing all work, and fulfilling all obligations hereunder. Said compensation shall cover all expenses, losses, damages, and consequences arising out of the nature of the work during its progress or prior to its acceptance including those for well and faithfully completing the work and the whole thereof in the manner and time specified in the aforesaid contract documents; also including those arising from actions of the elements, unforeseen difficulties or obstructions encountered in the prosecution of the work, suspension or discontinuance of the work, and all other unknowns or risks of any description connected with the work.
3. Employment by City. City hereby promises and agrees to employ, and does hereby employ, Contractor to provide the materials, do the work, and fulfill the obligations according to the terms and conditions

Contract Agreement

herein contained and referred to, for the prices aforesaid, and hereby contracts to pay the same at the time, in the manner, and upon the conditions set forth in the contract documents.

4. Worker's Compensation. Contractor acknowledges the provisions of the State Labor Code requiring every employer to be insured against liability for worker's compensation, or to undertake self-insurance in accordance with the provisions of that Code, and certifies compliance with such provisions. Limits shall be not less than those specified in the insurance requirements contained in the General Provisions of the Standard Specifications, and as modified in these Special Provisions.
5. Insurance. With respect to performance of work under this contract, Contractor shall maintain and shall require all of its subcontractors to maintain insurance as required in the General Provisions of the Standard Specifications, and as modified in these Special Provisions.
6. Indemnity. Contractor shall comply with the indemnification requirements contained in the General Provisions of the Standard Specifications.
7. Assignment. This contract is not assignable nor the performance of either party's duties delegable without the prior written consent of the other party. Any attempted or purported assignment or delegation of any of the rights or obligations of either party without the prior written consent of the other shall be void and of no force and effect.
8. Non-discrimination. Contractor shall not discriminate in the hiring of employees or I the employment of subcontractors on any basis prohibited by law.
9. Independent Contractor. Contractor is and shall at all times remain as to City, a wholly independent contractor. Neither City nor any of its agents shall have control of the conduct of Contractor or any of the Contractor's employees, except as herein set forth. Contractor shall not at any time or in any manner represent that it or any of its agents or employees are in any manner agents or employees of City.
10. Notices. All notices and communications shall be sent to the parties at the following addresses:

CITY: City Engineer
 City of Lafayette
 3675 Mount Diablo Boulevard, Suite 210
 Lafayette, California 94549

CONTRACTOR: _____

 (Ph) _____

11. Authorized Signature. Contractor affirms that the signatures, titles, and seals set forth hereinafter in execution of this contract agreement represent all individuals, firm members, partners, joint ventures, and/or corporate officers having a principal interest herein.
12. Entire Agreement; Modification. This contract supersedes any and all other agreements either oral or written, between the parties and contains all of the covenants and agreements between the parties pertaining to the work of improvements described in Paragraph A of the Recitals herein above. Each party to this contract acknowledges that no representations, inducements, promises, or agreements, orally or otherwise, have been made by any party, or anyone acting on behalf of any party, which are not embodied herein, and that any other agreement, statements or promise not contained in this contract

Contract Agreement

shall not be valid or binding. Any modification of this contract will be effective only if signed by the party to be charged.

- 13. **Claims Procedure.** In the event of a dispute between the parties regarding a) a time extension demand, b) payment arising for work performed by or on behalf of the contractor which is not otherwise expressly provided for, or c) an amount the payment of which is disputed by the City, the procedure in Section 10 of the City of Lafayette Standard Specifications shall be used.

IN WITNESS WHEREOF the parties hereto for themselves, their heirs, executors, administrators, successors, and assigns do hereby agree to the full performance of the covenants herein contained and have caused this Contract Agreement to be executed in duplicate by setting hereunto their names, titles, hands, and seals this ___ day of _____ 2014.

Contractor: _____
<Type Business Name Here>

Name: _____

Title: _____

Contractor's License No. _____

Agency Business License No. _____

Federal Tax Identification No. _____

Subscribed and sworn to this ___ day of _____ 2014.

Notary Public _____

Agency: _____
City Manager of the City of Lafayette

Attested: _____
City Clerk of the City of Lafayette

Date: _____

PAYMENT BOND

(TO BE EXECUTED WITHIN TEN [10] CALENDAR DAYS OF CONTRACT AWARD)

WHEREAS, the City of Lafayette (Owner) has awarded to _____, as Contractor, a contract for the work described as follows: for **Construction of City of Lafayette, 2014 Road Rehabilitation Project, Project No. 014-9698**, including, but not limited to: mobilization; traffic control and construction signage; potholing utilities; clearing and grubbing including tree protection and trimming; removal and disposal of asphalt concrete pavement and subgrade, concrete and/or asphalt curb, gutter, driveways; pulverizing, mixing, excavating, grading and compacting pavement subgrade and base materials; cement treatment of pulverized material; construction of minor concrete structures, concrete and/or asphalt curb, gutter, driveways,, crack seal, asphalt pavement repairs, asphalt concrete pavement, guard rail, vehicle detection loops, pedestrian push button, traffic stripes, markers, and markings; adjustment of utility covers; installation of survey monuments; and all other work as shown on the Plans and as described in the Specifications to provide a complete project.

AND WHEREAS, said Contractor is required to furnish a bond in connection with said contract, to secure the payment of claims of laborers, mechanics, materials persons, and other persons as provided by law;

NOW, THEREFORE, we, the undersigned Contractor and surety, are held firmly bound unto the Owner in the sum of _____ Dollars (\$ _____), for which payment well and truly to be made we bind ourselves, our heirs, executors and administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH:

That if said Contractor, its heirs, executors, administrators, successors, or assigns, or subcontractors, shall fail to pay any of the persons named in Civil Code Section 3282, or amounts due under the Unemployment Insurance Code with respect to work or labor performed by any such claimant, or any amounts required to be deducted, withheld, and paid over to the Employment Development Department from the wages of employees of the Contractor and its subcontractors pursuant to Section 13020 of the Unemployment Insurance Code, with respect to such work and labor, that the surety or sureties herein will pay for the same in any amount not exceeding the sum specified in this bond, otherwise the above obligation shall be void. In case suit is brought upon this bond, the said surety will pay a reasonable attorney's fee to the Owner in an amount to be fixed by the court.

This bond shall insure to the benefit of any of the persons named in Civil Code Section 3181 as to give a right of action to such persons or their assigns in any suit brought upon this bond.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this ____ day of _____, 2014.

CONTRACTOR: _____	SURETY _____
Print Name: _____	NAME _____
Title: _____	ADDRESS _____
	TELEPHONE _____

PERFORMANCE BOND

(TO BE EXECUTED WITHIN TEN [10] CALENDAR DAYS OF CONTRACT AWARD)

KNOW ALL PERSONS BY THESE PRESENTS:

THAT WHEREAS, the City of Lafayette (Owner) has awarded to _____, as Contractor, a contract for the work described as follows: for Construction of **City of Lafayette, 2014 Road Rehabilitation Project, Project No. 014-9698**, including, but not limited to: mobilization; traffic control and construction signage; potholing utilities; clearing and grubbing including tree protection and trimming; removal and disposal of asphalt concrete pavement and subgrade, concrete and/or asphalt curb, gutter, driveways; pulverizing, mixing, excavating, grading and compacting pavement subgrade and base materials; cement treatment of pulverized material; construction of minor concrete structures, concrete and/or asphalt curb, gutter, driveways,, crack seal, asphalt pavement repairs, asphalt concrete pavement, guard rail, vehicle detection loops, pedestrian push button, traffic stripes, markers, and markings; adjustment of utility covers; installation of survey monuments; and all other work as shown on the Plans and as described in the Specifications to provide a complete project.

AS WHEREAS, the Contractor is required to furnish a bond in connection with said contract guaranteeing the faithful performance thereof;

NOW, THEREFORE, we, the undersigned Contractor and surety, are held firmly bound unto the Owner in the sum of _____ Dollars (\$ _____), to be paid to the Owner, its successors and assigns, for which payment well and truly to be made we bind ourselves, our heirs, executors and administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH:

That if said Contractor, its heirs, executors, administrators, successors, or assigns, shall in all things stand to and abide by and well and truly keep and perform the covenants, conditions, and agreements in the foregoing contract and any alteration thereof made as therein provided on its or their part to be kept and performed at the time and in the manner therein specified and in all respects according to their true intent and meaning, and shall indemnify and save harmless the Owner, its officers, and agents, as therein stipulated, then this obligation shall become and be null and void; otherwise it shall be and remain in full force and effect. In case suit is brought upon this bond, the said surety will pay a reasonable attorney's fee to the Owner in an amount to be fixed by the court. Surety, for value received, hereby stipulates and agrees that no amendment, change, extension of time, alteration, or addition to said contract, and of any feature or item or items of performance required therein or thereunder, shall in any manner affect its obligations on or under this bond; and said surety does hereby waive notice of any such amendment, change, extension of time, alteration, or addition to said contract, and of any feature or item or items of performance required therein or thereunder, shall in any manner affect its obligations on or under this bond; and said surety does hereby waive notice of any such amendment, change extension of time, alteration, or addition to said contract, and of any feature or item or items of performance required therein or thereunder.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this ____ day of _____, 2014.

CONTRACTOR: _____	SURETY _____
Print Name: _____	NAME _____
Title: _____	ADDRESS _____
	TELEPHONE _____

**CITY OF LAFAYETTE
SPECIAL PROVISIONS**

SPECIAL PROVISIONS SECTION SP-1

GENERAL
(NO BID ITEM)

The work to be done under this contract, except as modified or supplemented herein, shall conform to the following:

- The City of Lafayette General Provisions of the Standard Specifications dated March 2013, herein referred to as the “General Provisions of the Standard Specifications”.
- The City of Lafayette Technical Provisions of the Standard Specifications dated March 2013, herein referred to as the “Technical Provisions of the Standard Specifications”.

Where specifically referred to, the work shall also conform to the following:

- The State of California Department of Transportation (Caltrans) Standard Specifications, For Construction of Local Streets and Roads, 2010 Edition, herein referred to as the “State Specifications” or “State Standard Specifications”.
- The State of California Department of Transportation (Caltrans) Standard Plans, 2010 Edition, herein referred to as the “State Standard Plans”.
- The Contra Costa County Public Works Department Standard Plans, most current edition, herein referred to as the “County Standard Plans”.

These Special Provisions are additions, modifications, or clarifications to the referenced Standard Specifications and generally supersede the referenced or applicable sections of said Standard Specifications. Refer to Section 5-4, “Precedence of Contract Documents”, of the General Provisions of the Standard Specifications for the order of precedence of Contract Documents. Where ambiguity or conflict exist in the interpretation of precedence, the provision resulting in the highest quality or most expensive grade of construction or product shall govern.

SPECIAL PROVISIONS SECTION SP-2, 3

NOT USED

SPECIAL PROVISIONS SECTION SP-4

PLANS AND SPECIFICATIONS (GENERAL)
(NO BID ITEM)

The provisions of Section 4, "Plans and Specifications (General)," of the General Provisions of the Standard Specifications shall apply in their entirety and as supplemented herein.

SP4-01 SCOPE OF WORK

The work to be performed under this contract including, but not limited to: mobilization; traffic control and construction signage; potholing utilities; clearing and grubbing including tree protection and trimming; removal and disposal of asphalt concrete pavement and subgrade, concrete and/or asphalt curb, gutter, driveways; pulverizing, mixing, excavating, grading and compacting pavement subgrade and base materials; cement treatment of pulverized material; construction of minor concrete structures, concrete and/or asphalt curb, gutter, driveways, crack seal, asphalt pavement repairs, asphalt concrete pavement, guard rail, vehicle detection loops, pedestrian push button, traffic stripes, markers, and markings; adjustment of utility covers; installation of survey monuments; and all other work as shown on the Plans and as described in the Specifications to provide a complete project.

SP4-02 PAYMENT

No separate payment will be made for preparing and submitting "As-Built Drawings." Full compensation for preparing and submitting "As-Built Drawings" shall be considered as included in the prices paid for various contract items of work, and no additional compensation shall be allowed therefor.

SPECIAL PROVISIONS SECTION SP-5

CONTROL OF WORK AND MATERIALS
(NO BID ITEM)

The provisions of Section 5, "Control of Work and Materials," of the General Provisions of the Standard Specifications shall apply in their entirety and as supplemented herein.

SP5-01 CONSTRUCTION SURVEY STAKING

The Engineer will provide paint markings for pavement conforms, driveway paving conform limits, removal and replacement of pavement, curb, gutter, and driveways of all kinds.

The City shall provide all construction survey staking for alignment and grades of roadway, curb, gutter, and other items which, in the opinion of the Engineer, require survey staking. The Contractor shall submit staking requests in writing at least five (5) working days in advance of beginning work that requires construction survey

staking. The Contractor shall be responsible for paying the cost of resetting survey stakes which are damaged or obliterated by the Contractor's operations.

Survey stakes for roadway alignment and grade will be set on one side of the roadway only. These stakes will provide offset distances, and cuts or fills to the new crown or control line grade breaks, and where applicable, new curb and/or left and right edges of pavement.

The Contractor will be responsible for providing traffic control for the City's survey crew as necessary for any required offset stakes which will need to be set in the roadway, including providing a lane closure and/or flaggers when required. The Engineer will notify the Contractor a minimum of 48 hours prior to the required survey staking in order to coordinate traffic control.

SP5-02 MATERIAL SAMPLING AND TESTING

Compaction tests and/or material sampling and testing may be performed by the City's representatives on roadway subgrade, pulverized material, aggregate base, portland cement concrete, asphalt concrete, and other work and materials, which in the opinion of the Engineer, require sampling or testing. Test locations shall be determined by the Engineer. The Contractor shall coordinate and cooperate with the Engineer and testing personnel, and no claims of delays or inconvenience due to testing and/or sampling shall be allowed.

SP5-03 SUBMITTALS

At minimum, the Contractor shall provide submittals to the Engineer for the following materials. Additional submittals may be found in the various Special Provisions for the Work.

- Aggregate Base Class 2 (provide material source)
- Asphalt Concrete Mix Designs of All Types
- Portland Cement Concrete Mix Designs of All Types
- Cement Treatment of Subgrade
- Reinforcing Steel
- Storm Drain Inlet and manhole Frames, Grates and Covers
- Pavement Markers
- Thermoplastic Striping Material
- Sign and Post Materials
- Survey Monument Frames and Covers
- Water Pollution Control Plan
- Waste Management Plan
- Traffic Control Plan and Certification of Qualified Personnel
- CAL/OSHA Excavation Permit

SP5-04 ORDER OF WORK

Unless otherwise directed by the Engineer, the following major items of work shall be performed in the following general order. Not all stages of work apply to every location within the Project.

- 1) Notify Underground Service Alert (USA) to have utilities marked.
- 2) Install construction area signs and project identification signs one week in advance of the start of work on a specific street or work area.
- 3) Install water pollution control measures.
- 4) Install tree protection.
- 5) Submit waste management plan prior to commencing any demolition work.
- 6) Perform utility potholing work to confirm depths of existing utility lines. No additional excavation work will be permitted until Contractor's Utility Pothole Log (Appendix to Standard Specifications) is submitted to the Engineer.
- 7) Clearing, grubbing, tree trimming and tree removal.
- 8) Sawcut driveway conforms.
- 9) Remove and repair or modify existing storm drain facilities.
- 10) Remove and replace existing concrete curb, gutter, sidewalk and driveways
- 11) Install new concrete curb, sidewalk, and curb ramps.
- 12) Reference and/or adjust survey monuments, all utility frames and covers to below grading plane.
- 13) Remove driveways and shoulder as indicated on the Plans.
- 14) On streets to be reconstructed- Complete full-depth recycling, including cement treatment; finish grade and compact subgrade to design grades; and place asphalt concrete base course.
On streets to receive inlay- Cold plane existing pavement surface to required depth; perform spot pavement repairs per plan; crack seal; place asphalt concrete base course.
- 15) Sawcut and remove conform pavement at transverse joints.
- 16) Place asphalt concrete finish course.
- 17) Install vehicle detection loops.
- 18) Place asphalt concrete berms.
- 19) Repair damaged sections of guard rail.
- 20) Pave driveway conforms and road shoulders
- 21) Place temporary striping.
- 22) Raise/adjust all existing monument and utility frames and covers to final grade.
- 23) Install new monuments.
- 24) Place permanent striping, markers and legends.
- 25) Complete all other construction work and punch list items.
- 26) Remove tree protection, construction area signs and project identification signs.
- 27) Submit completed waste assessment summary report form.
- 28) Submit as-built plans.

The Contractor's attention is directed to Section SP-8-02, "Progress Schedule", of these Special Provisions.

Any deviation from these requirements and provisions shall be sufficient cause for the Engineer to suspend the work in accordance with the provisions of Section 8-3, "Temporary Suspension of the Work", of the General Provisions. The contractor will not be permitted to resume the work until Contractor has remedied said deviation in accordance with the provisions of the Contract.

SP5-05 PAYMENT

No separate payment will be made for conforming to the provisions of this section. Full compensation for conforming to all the provisions of this section shall be considered as included in the prices paid for various contract items of work and no additional compensation will be allowed therefor.

SPECIAL PROVISIONS SECTION SP-6

LEGAL RELATIONS AND RESPONSIBILITIES
(NO BID ITEM)

The provisions of Section 6, "Legal Relations and Responsibilities," of the General Provisions of the Standard Specifications shall apply in their entirety and as supplemented herein, and in other related sections of these Special Provisions.

SP6-01 PUBLIC NOTIFICATIONS

Notification requirements in Section 6-10, 6-12.3, and 6-13 of the Standard Specifications General Provisions shall apply. Notices for driveway and road closures must be issued each time driveway or roadway access is restricted and must indicate the specific date and time of the anticipated restricted access.

SP6-02 PERMITS

The Contractor shall procure all permits and licenses, pay all charges and fees, and give all notices necessary and incidental to the due and lawful prosecution of the work.

The City of Lafayette will obtain the initial required encroachment permit for the work in or adjacent to the State Right of Way on Acalanes Road. The Contractor will also be required to apply for and receive an encroachment permit for this work as well. The Contractor shall comply with all conditions imposed by the California Department of Transportation on both permits.

SP6-03 PAYMENT

No separate payment will be made for conforming to the provisions of this section. Full compensation for conforming to all the provisions of this section shall be considered as included in the prices paid for various contract items of work and no additional compensation will be allowed therefor.

SPECIAL PROVISIONS SECTION SP-7

UTILITY PROTECTION
(NO BID ITEM)

The provisions of Section 7, "Existing Utilities," of the General Provisions of the Standard Specifications shall apply in their entirety and as supplemented herein.

SP7-01 GAS TRANSMISSION MAIN

A gas transmission line crosses Black Hawk Road and runs along Meadowlark Court at a depth of approximately 28 inches below the existing paved surface. Although the road reconstruction activities do not appear to impact this facility it has been designated on the plans as a Special Construction Zone and the following additional conditions shall apply within this zone:

1. A PG&E gas transmission standby inspector must be present during any activities within 10 feet of the gas pipeline. This includes all pulverizing, grading, cement treating, paving and gas line depth verifications (potholes). This inspection can be coordinated through the Underground Service Alert (USA) service at 811. A minimum notice of 48hours is required.
2. To prevent damage to the buried gas pipeline, the following allowable wheel loading limits must be adhered to:

Allowable Wheel Loading	
Cover	Pounds per Wheel (Half Axil)
2 ft	20,000
3 ft	55,000
4 ft	80,000

3. The horizontal and vertical location of the gas transmission pipeline must be positively confirmed by potholing every 5 feet along the length of the gas transmission line within the paved surface of the road.
4. The roadway section in the special construction zone as indicated on the project plans shall consist of 8-inches of asphalt with the final lift placed as part of the final lift for the entire street.
5. Subgrade shall be compacted using a jumping-jack-style compactor not exceeding 200 pounds and the asphalt concrete base lifts shall be compacted with a small roller not exceeding 6200 pounds, unless otherwise authorized in writing in advance by the Engineer or the PG&E representative.

SP7-02 PAYMENT

No separate payment will be made for conforming to the provisions of this section. Full compensation for conforming to all the provisions of this section shall be considered as included in the prices paid for various contract items of work and no additional compensation will be allowed therefor.

All work associated with excavating and paving the 6-inch base pavement course in the Special Construction Zones indicated on the project plans shall be measured and paid as "6-Inch Pavement Repair" per SP-22.

SPECIAL PROVISIONS SECTION SP-8

PROGRESS OF WORK
(NO BID ITEM)

The provisions of Section 8, "Progress of Work," of the General Provisions of the Standard Specifications shall apply in their entirety and as supplemented herein.

SP8-01 PRE-CONSTRUCTION MEETING

A pre-construction meeting for this project will be held on Thursday, May 22, 2014 at 2:00 p.m. at the City Offices. The Contractor shall submit all required bonds, insurance, and signed contracts prior to this meeting. The Notice to Proceed will be issued to the Contractor at the pre-construction meeting. Note: The prime contractor's full-time on-site superintendent or foreman for the project, along with any subcontractor that will be adjusting utility facilities (lowering and raising iron) are required to attend the preconstruction meeting.

At the pre-construction meeting, representatives of the Owner, the Contractor, Subcontractors, and the Engineer will discuss in detail certain procedural aspects of the Work, including, but not limited to:

- Administrative procedures for transmittals, approvals, change orders, and similar items;
- Review of the method of application for payment, progress payments, retention; and final payment;
- Review of the Contractor's construction progress schedule;
- Clarifications of any questions regarding the contract Plans and Special Provisions;
- Review of traffic control procedures;
- At the preconstruction meeting the Contractor shall provide a Cal/OSHA trenching permit;
- Contractor shall also provide a traffic control plan for typical work zones, and a road closure detour plan for Reliez Station Road.

SP8-02 PROGRESS SCHEDULE

The Contractor shall submit the construction progress schedule to the Engineer at the pre-construction meeting. Contractor shall also submit an updated schedule by no later than Friday morning of each work week, and as requested by the Engineer per Section 8-2, "Progress Schedule," of the General Provisions of the Standard Specifications.

Attention is directed to Section SP5-04, "Order of Work," of these Special Provisions. Each schedule shall specifically note the timeframe and work to be performed by all subcontractors. Subcontractors shall receive all updated schedules so they can plan an appropriate work force to meet the prime Contractor's timeframe.

Contractor's schedule shall allow for the coordination and accommodation of work by utility agencies, including the relocation of water and gas mains and service connections to provide clearance for Contract Work. From time to time, the schedule shall be adjusted to reflect progress of said utility work, and Contractor may be required to adjust Contract Work sequences to avoid scheduling conflicts and complete work at project locations that have been cleared for construction. Contractor's attention is directed to Section 7-2 of the General Provisions of the Standard Specifications for provisions regarding such utility coordination and accommodation.

Currently the following schedule of utility work is known. Work durations shown represent "best-case" scenario and are subject to adjustments:

Underway until June 27

EBMUD main replacement and service connection replacement on Black Hawk Road, Black Hawk Court, Meadowlark Court, Eagle Point Road.

Overlapping this period, PG&E plans to perform work on its gas mains and services in the same area.

May 1 – August 4

EBMUD main replacement and service connection replacement on Quandt Court, Candy Court, Sandalwood Court, Sweetbrier Circle, and Somerset Drive.

SP8-03 WORKING HOURS

Without prior written approval by the Engineer, and except for emergency work, work or activity of any kind shall be limited to the hours from 8:00 a.m. to 5:00 p.m. Monday through Friday. Contractor's attention is directed to hours for lane/road closures in Section SP14 of these Special Provisions.

SP8-04 TIME OF COMPLETION AND LIQUIDATED DAMAGES

The Contractor shall complete the entire Work in this Contract within **seventy five (75)** working days from the start date, including completion of all "Punch List" work. Liquidated damages shall be assessed per Section 8-10, "Liquidated Damages," the General Provisions of the Standard Specifications.

The count of working days for this project will start on Monday, June 2, 2014.

SP8-05 PAYMENT

No separate payment will be made for conforming to the provisions of this section. Full compensation for conforming to all the provisions of this section shall be considered as included in the prices paid for various contract items of work and no additional compensation will be allowed therefor.

SPECIAL PROVISIONS SECTION SP-9, 10, 11

NOT USED

SPECIAL PROVISIONS SECTION SP-12

MOBILIZATION
(BID ITEM NOS. 1 AND 2)

The provisions of Section 1, "Mobilization," of the Technical Provisions of the Standard Specifications shall apply in their entirety except as modified or supplemented herein.

SP12-01 MEASUREMENT AND PAYMENT

The lump sum contract price paid for "Mobilization" shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals, and for all the work involved in mobilization of forces, equipment, materials, and meeting all general conditions and provisions of Contract Documents and as directed by the Engineer, and no additional compensation will be allowed therefor.

The contract price paid for each "Project Identification Sign" shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals, and for doing all the work involved in coordinating with the City to obtain the sign, transporting, installing signs on barricades, maintaining signs, removing signs and barricades, and returning signs to the City as specified in the Standard Specifications and these Special Provisions and as directed by the Engineer and no additional compensation will be allowed therefor.

SPECIAL PROVISIONS SECTION SP-13

CONSTRUCTION AREA SIGNS
(BID ITEM NO. 3)

SP13-01 GENERAL

The Engineer shall approve all locations prior to the Contractor installing signs. Signs shall be in place on the project site at least two (2) days prior to the start of work on each street, but not more than seven (7) days prior to the start of work on each street. Signs shall be removed within five (5) days of completing all work on each street. The Contractor shall notify the regional notification center for operators of subsurface installations (USA-Underground Service Alert: 1-800-227-2600), at least four (4) working days, but not more than fourteen (14) calendar days, prior to commencing any excavation for construction area sign posts.

The bottom of the mounted sign panel shall be seven (7) feet above existing grade.

SP13-02 MEASUREMENTS AND PAYMENT

Construction area signs shall be counted and paid based on the number of sign panels installed regardless of the number of sign posts installed.

The contract price paid per each for "Construction Area Sign" shall be considered as full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals, and for doing all work involved in furnishing, erecting, maintaining, and removing all construction area signs, as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation will be allowed therefor.

SPECIAL PROVISIONS SECTION SP-14

TRAFFIC CONTROL
(BID ITEM NO. 4)

TEMPORARY PAVEMENT DELINEATION
(BID ITEM NO. 47)

SP14-01 GENERAL

Work shall conform to the requirements of Section 6-12, "Traffic Control," and Section 15-4, "Removal of Existing and Temporary Traffic Stripes and Pavement Markings," of the General Provisions of the Standard Specifications. Nothing in these Special Provisions shall be construed as relieving the Contractor from his/her responsibilities as specified in said sections. Any traffic striping or markings that are removed due to any phase of work shall be replaced, or re-aligned if required, with temporary traffic stripes or pavement markings. All temporary striping and markings shall be placed the same day the permanent striping or markings are removed and they shall be placed before opening the roadway to public traffic.

SP14-02 ROAD CLOSURE AND HOURS

Contractor's attention is directed to noticing requirements in Section SP6-01.

Road closures are not allowed on Acalanes Road or St. Mary's Road.

All work on Reliez Station Road shall be performed with complete road closure and an approved traffic detour plan between June 12 and August 26. Road closure hours shall be allowed between 8:30 a.m. and 4:30 p.m., and shall be limited to twenty (20) working days, which are not required to be contiguous. A road closure on any day, regardless of its duration, shall be counted as one day of road closure. Contractor is required to station traffic controllers (flaggers) at both ends of the road closure to ensure that drivers are being re-directed appropriately and also to help residents that live within the closure and require special accommodations. It is Contractor's responsibility to obtain approval of a detour plan that is acceptable to the Engineer prior to the start of work on Reliez Station Road. In addition, beginning at least one (1) week prior to the first closing of Reliez Station Road, the Contractor shall furnish and place a changeable message sign at each of the following locations to indicate the dates and times for the road closure. Contractor shall maintain said signs in full and continuous operation twenty-four (24) hours per day and all seven days per week.

1. Reliez Station Road at Olympic Boulevard
2. Reliez Station Road at Glenside Drive
3. Glenside Drive at Burton Valley Road

Throughout the duration of work on Reliez Station Road, changeable message signs shall remain in full, continuous operation. If traffic conditions warrant, as determined in the sole discretion of the Engineer, Contractor shall relocate these signs to other locations to be determined by the Engineer to maximize the effectiveness of the intended public notice. Said relocations shall be limited to areas within a two (2)-mile radius of the work limits on Reliez Station Road.

If unforeseen circumstances result in the Contractor working on Reliez Station Road outside of the specified date range between June 12 and August 26, road closure hours shall be allowed only between 9:00 a.m. and 2:00 p.m. Contractor's attention is also directed to the Roadway Users Cost in SP14-03 below.

With respect to work on all other roads for the Project, road closures shall only be permitted during the pavement pulverization, grading, cement treating, and finish-course paving phases of work. Road closure hours for those phases of work shall be allowed between 8:30 a.m. and 4:30 p.m. Prior to June 12 and after August 26, road closure hours on Black Hawk Road and Eagle Point Road shall be allowed only between 9:00 a.m. and 2:00 p.m. The Contractor may work under lane closure conditions before and after the specified road closure hours.

Contractor shall stage and sequence work such that road closures and disruptions to mobility of the public are minimized. Even under road closure conditions, Contractor shall make best efforts to allow passage of vehicles through the work zone when doing so does not interfere with active, critical work. This includes but is not limited to accommodating residents with medical, health, or safety-related needs (doctor appointments, emergency access, and access requirements due to physical disabilities). If work requiring closure is not actively in progress during allowed closure hours, the Engineer may order the road opened to public traffic. The Contractor shall coordinate road closures with garbage and recycling collection to ensure continuation of service during the construction period.

The full width of the traveled way shall be open for use by public traffic at all other times. Notwithstanding anything to the contrary, emergency vehicles shall be provided immediate access through the construction area at all times.

SP14-03 ROADWAY USERS COST

As specified in SP-14-02 above, road closures on Reliez Station Road shall be limited to twenty (20) working days between June 12 and August 26. In consideration of the economic, convenience, and environmental impacts to the public and the City; each and every day of road closure on Reliez Station Road that a) exceeds the twenty (20) working days allowed in SP14-02, or b) occurs outside the allowable date range specified in SP14-02, shall be subject to a Roadway Users Cost, which shall not be construed as a penalty or forfeiture. In accordance with Government Code Section 53069.85, it is agreed that Contractor shall be responsible for the Roadway Users Cost, and City shall deduct such amounts owed from any payment due to Contractor. The Roadway Users Cost shall be charged in addition to any Liquidated Damages that may be owed as specified in SP 8-04. This section does not exclude recovery of other damages specified in the Contract Documents.

The Roadway Users Cost for this Project is \$5,000 per day.

SP14-04 MEASUREMENT AND PAYMENT

The contract lump sum price paid for "Traffic Control" shall be considered as full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals needed to perform all traffic control work, for all phases of the work performed by the Contractor or the Contractor's "subcontractors" including, but not limited to, all signs, barricades, steel plates, traffic control plan, maintaining traffic, lane and road closures, flagmen and all other traffic control devices; and all other work as shown on Standard Plans, as specified in the Standard Specifications, the State Specifications, these Special Provisions, and as directed by the Engineer and no additional compensation shall be allowed therefor. There shall be no additional

compensation for traffic control due to an increase in the quantities shown on the bid proposal for pay items within the project limits.

Traffic Control required by work which is classified as extra work, as provided in Section 9.3, "Extra Work", of the General Provisions of the Standard Specifications, will be paid for as part of said extra work.

The contract lump sum price paid for "**Temporary Pavement Delineation**" shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals and for doing all the work necessary to lay out, place, maintain, and remove temporary pavement striping, legends, arrows, glue down delineators, markers and markings, and all other work as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

SPECIAL PROVISIONS SECTION SP-15

DUST CONTROL (NO BID ITEM)

The provisions of Section 4, "Dust Control and Watering", of the Technical Provisions of the Standard Specifications shall apply in their entirety and as supplemented herein.

SP15-01 GENERAL

On streets receiving pulverization and cement treatment, Contractor shall keep the pulverized or cement-treated street moist to control dust, using a water truck or other similar equipment. The street surface shall be moistened a minimum of four times each day (including weekends), and more often as needed to control the dust. If the road becomes too wet, and vehicles track material onto adjacent surfaces, or the wet condition poses a hazard to drivers, the Contractor shall modify his dust control method accordingly to remedy the situation.

SP15-02 PAYMENT

No separate payment shall be made for conforming to the provisions of this section. Full compensation for conforming to all the provisions of this section shall be considered as included in the prices paid for various contract items of work and no additional compensation shall be allowed therefor.

SPECIAL PROVISIONS SECTION SP-16

CLEARING AND GRUBBING, TREE TRIMMING, **AND TREE PROTECTION** (BID ITEM NO. 5)

The provisions of Section 2, "Clearing and Grubbing," Section 21, "Tree Trimming and Removal," and Section 22-3, "Tree and Plant Protection," of the Technical Provisions of the Standard Specifications shall apply in their entirety except as modified or supplemented herein.

SP16-01 GENERAL

In addition to requirements of the Standard Specifications, clearing and grubbing work shall also include removing and/or relocating landscape borders, decorative rocks, and similar decorative features that conflict with planned construction. Where they occur, Contractor shall salvage these features by placing removed items in a neat stack at an adjacent location on the property frontage to be designated by the Engineer.

All cleared and grubbed areas shall be approved by the Engineer before further grading commences.

SP16-02 MEASUREMENT AND PAYMENT

The contract lump sum price paid for “**Clearing & Grubbing, Tree Trimming, and Tree Protection**” shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals, and for doing all the work involved in clearing and grubbing, tree trimming, tree protection, and all other work as shown on the Plans, as specified in the Standard Specifications, these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor

SPECIAL PROVISIONS SECTION SP-17

EXISTING HIGHWAY FACILITIES
(BID ITEM NO. 6 THROUGH 19)

SP17-01 GENERAL

Work shall consist of removing, abandoning, relocating, or protecting existing facilities which interfere with construction. Work performed in connection with various existing highway facilities shall conform to applicable provisions of Section 7, “Existing Utilities,” of the General Provisions, Section 2, “Clearing and Grubbing,” and Section 22, “Protection and Restoration of Existing Improvements,” of the Technical Provisions of the Standard Specifications, these Special Provisions, and as directed by the Engineer.

The Contractor shall fully document pre-construction conditions at all points around the work area. This documentation shall consist of notes, still photographs, and video. Special effort shall be made to document the existing conditions at all buildings and private improvements not to be disturbed. These documents shall be available to the City upon request.

If Contractor damages or destroys materials or facilities designated on the Plans, in these Special Provisions, or by the Engineer to be protected, salvaged or reused, he shall repair or replace them in kind at his sole expense.

SP17-02 REMOVALS

Contractor’s attention is directed to Section 6-11, “General Safety,” of the Standard Specifications General Provisions, and Section SP-27, “Temporary Pavement Delineation,” of these Special Provisions.

Removals of existing road facilities not considered to be included in other Contract Work include-- concrete or asphalt concrete driveway, pathway, sidewalk, and shoulder; concrete curb and gutter; over-pour at lip of concrete gutter; gutter obstructions; and concrete valley gutter.

Where existing curb and gutter is to be removed and replaced, and the adjacent pavement is intended to remain, removal work shall include the removal of said curb and gutter and a sufficient area of the adjacent pavement to a proper depth to allow the forming and construction of the replacement new curb and gutter.

For removals that involve sawcutting, all sawcut lines shall be approved by the Engineer prior to sawcutting.

Removals of area in preparation for new construction shall extend to a depth that is sufficient to accommodate the new improvements to be constructed, including any necessary subgrade.

SP17-03 MONUMENTS AND PROPERTY CORNERS

All monuments and property corners are to be preserved unless designated on the plans to be replaced. The Contractor shall bear the expense of replacing and recording with the County any monument or benchmark that is disturbed and was not designated to be replaced. Replacement shall be done only under the direction of and in the presence of the Engineer or a licensed surveyor.

SP17-04 REMOVE AND RELOCATE MAILBOX

Existing mailboxes shall be removed and reset on a new post, or existing post if the owner of the mailbox prefers to salvage and re-use a painted or decorative post. Mailbox removal locations shall be as shown on the Plans or any location that an existing mailbox interferes with contract work. The exact relocation shall be designated by the Engineer or mail carrier. Mailboxes shall be removed and reset during the same work day. The new installation shall be in accordance with Contra Costa County Detail CA90i, "Mailbox Details," or matching the existing condition (post, footing, mailbox, size, color), whichever is of a higher quality or more expensive construction in current dollars. To coordinate with other construction, Contractor may set a mailbox in a temporary condition acceptable to the Engineer and the mail carrier.

All excavation resulting from removals shall be backfilled with Class II aggregate base and compacted to 90% relative compaction.

SP17-05 LOWERING AND RAISING MANHOLE COVERS AND RODDING INLETS

Work involves storm drain, sanitary sewer, gas and similar utility manhole covers and sanitary sewer rodding inlets. Work consists of initially lowering these facilities to accommodate construction and subsequently raising them to finished grade in conformance with Section 22-9 of the Technical Provisions of the Standard Specifications.

Manhole structures and rodding inlets located within repaving limits shall be lowered to a point below the final roadway planning, pulverizing, or excavation depth prior to excavation of the existing pavement. If a manhole or rodding inlet condition does not allow said lowering, then the facility shall be lowered as much as practically possible using all reasonable means. Contractor shall then coordinate his construction equipment, means, and methods to avoid damage to the facility during construction.

Adjustments below the planning, pulverizing, or excavation depth shall include but not be limited to placement of temporary false bottoms in manholes, removal of existing concrete collars, cutting riser pipes, salvaging the existing frames and covers, removal of riser rings, placing and securing in place an acceptable temporary steel cover below the required depth, and placement of temporary asphalt concrete over and around

the temporary cover to allow safe passage of vehicular traffic prior to and following roadway excavation. Each false bottom shall be constructed of two pieces of standard-grade plywood, or similar material, that is hinged together so that they can be folded in half to fit through the manhole opening. The false bottom shall be set securely near the bottom of the manhole structure above the sewer flowline, in a manner so as to ensure that flow in the manhole is not impeded by debris entering the manhole inadvertently. Any debris that does enter the manhole or inlet shall be immediately removed. For rodding inlets, the adjustment shall include placing a temporary plug in the riser pipe and covering the pipe with a temporary steel lid. The plug shall be a mechanical type plug. Inflatable plugs shall not be allowed.

Manholes and rodding inlets located within new paving limits shall be raised to finished grades per Section 22-9.2 of the Standard Specifications Special Provisions, following the placement of the final lift of asphalt concrete. For all rodding inlets, the maximum distance between the finished pavement grade and the top of the riser pipe shall be six (6) inches. If the distance to the top of the riser pipe is greater than six (6) inches, the riser shall be extended with a new section of pipe connected with a fitting that produces a smooth interior with no offset or obstruction. The adjusted sanitary sewer manholes and rodding inlets shall conform to all utility company standards and requirements.

Frames and covers for sanitary sewer manholes may be re-used if they are in good condition and if the manhole covers have a nominal diameter dimension of twenty-five inches (25"). Existing frames and covers that exceed this dimension shall be replaced. In this case, the Central Contra Costa Sanitary District shall provide new frames and covers to be installed by Contractor. At its discretion CCCSD may also elect to provide new sewer rodding inlet frames and covers to be installed by Contractor. Contractor shall coordinate the delivery and integration of materials to be furnished by CCCSD with the District representative.

CCCSD at its sole discretion may elect to adjust its own facilities. In that case, the quantities shown on the Bid Schedule shall be adjusted accordingly, and Contractor shall comply with Section 22-9.3 of the Standard Specifications Special Provisions.

SP17-06 GRIND CONCRETE SIDEWALK

Where the edge of one panel of existing sidewalk has raised above the plane of the adjacent panel, the protruding edge, or "lip," shall be ground down to produce a flushed, planar surface between the two sidewalk panels.

The equipment to be used for grinding shall be a "walk-behind" type dry-cutting scarifier machine, fitted with carbide spike cutters on a drum, capable of tapering the protruding concrete by a pulverizing scarification process that reduces the concrete to a fine powder. Contractor shall grind the entire length of the protruding edge, and the minimum width of grinding shall be six inches of sidewalk per half inch of vertical protrusion. As much as possible, the ground surface area shall be rectangular with straight edges. The final surface shall be smooth, with a non-slip texture without any rough edges, spalling, pitted, or gouged appearance. Adjacent surfaces shall be protected from damage. Powder dust shall be swept clean from the work area. If the grinding process produces excessive airborne dust in the opinion of the Engineer, Contractor shall use means such as vacuuming to control dust.

SP17-07 LOWERING AND RAISING EXISTING UTILITY VALVE FRAMES AND COVERS

Work consists of initially lowering utility valve frames and covers to accommodate construction and subsequently raising them to finished grade in conformance with Section 22-9 of the Technical Provisions of the Standard Specifications.

Utility valve frames and covers shall be lowered to a point below the final roadway planning, pulverizing, or excavation depth prior to excavation of the existing pavement. These facilities shall be subsequently adjusted to finished grade in conformance with Section 22-9.2 of the Standard Specifications Special Provisions.

Water valves shall be adjusted to grade using a new "G5" box as shown in the detail in Appendix A. The G5 boxes will be provided by the East Bay Municipal Utility District free of charge. Contractor shall coordinate the delivery or pick-up and integration of materials to be furnished by EBMUD with District representatives. All other frames and covers, shall be adjusted reusing the existing riser and cover with a concrete collar and that is topped with asphalt concrete.

Contractor shall phase his work so that all water valves are lowered for a maximum of 20 calendar days prior to being raised to finished grades. In the event that Contractor fails to adjust the valves to grade and make them fully accessible within twenty (20) calendar days from the initial lowering, Contractor expressly agrees to defend, indemnify, and hold harmless City of Lafayette, EBMUD and their Directors, officers, agents, and employees from and against any and all loss, liability, expense, claims, suits, and damages, including attorneys' fees, arising out of or resulting from the inability to operate said valves.

EBMUD at its sole discretion may elect to adjust its own facilities. In that case, the quantities shown on the Bid Schedule shall be adjusted accordingly, and Contractor shall comply with Section 22-9.3 of the Standard Specifications Special Provisions.

SP17-08 ADJUST UTILITY BOXES TO GRADE

Where utility boxes are encountered within the limits of the planned work, Contractor shall adjust utility boxes to the finished grade of the new construction. For water meters, Contractor shall coordinate with EBMUD to obtain new utility boxes and integrate them into the Work. All boxes shall be placed securely in place on a compacted base in native material, asphalt concrete, or concrete as applicable, in a manner that would not result in settling over time. The boxes shall be set so that they are accessible by utility personnel.

EBMUD at its sole discretion may elect to adjust its own facilities. In that case, the quantities shown on the Bid Schedule shall be adjusted accordingly, and Contractor shall comply with Section 22-9.3 of the Standard Specifications Special Provisions.

SP17-09 MEASUREMENT AND PAYMENT

No separate payment shall be made for conforming to the provisions of this section, with the exception of the items specified below. Full compensation for conforming to all the provisions of this section shall be considered as included in the prices paid for various contract items of work, and no additional compensation will be allowed therefor.

The contract unit prices paid per each for **“Lower Existing Manhole or Rodding Inlet Frame,”** and **“Lower Existing Utility Valve Frame and Cover”** shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals necessary to lower the frames and covers; including, but not limited to- locating, referencing, and setting marks; lowering the facility; placement of “false bottoms”; cleaning out the structure or riser; placement of temporary cover; placement of temporary asphalt concrete; maintain temporary asphalt concrete; and all other work as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation will be allowed therefor. Contract quantities may be reduced or eliminated based on work to be performed by others. No adjustment in the bid item price shall be allowed due to any change in contract quantities.

The contract unit prices paid per each for **“Adjust Existing Water Valve Frame and Cover to Grade with G5 Box”** and **“Adjust Existing Utility Valve Cover to Grade with Grade Rings”** shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals necessary to adjust water valve covers, including but not limited to- locating, referencing, and setting marks; all coordination work; lowering the facility; raising the facility to finished grade; placement of temporary and permanent asphalt concrete; and all other work as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation will be allowed therefore. Contract quantities may be reduced or eliminated based on work to be performed by others. No adjustment in the bid item price shall be allowed due to any change in contract quantities.

The contract unit prices paid per each for **“Adjust Existing Manhole or Rodding Inlet Frame and Cover to Grade”** shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals necessary to raise the frames and covers, including but not limited to- locating, referencing, and setting marks; all coordination work; raising the facility to finished grade; placement of concrete collars and temporary and permanent asphalt concrete; and all other work as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation will be allowed therefor. Contract quantities may be reduced or eliminated based on work to be performed by others. No adjustment in the bid item price shall be allowed due to any change in contract quantities.

The contract unit prices paid per each for **“Adjust Utility Box to Grade”** shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in adjusting the facilities to grade complete in place, including all required excavation, backfilling, compaction, concrete collars, placing of temporary asphalt concrete, and permanent restoration to match surrounding materials, and all other work as shown on the plans and/or applicable standard plans, and as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer, and no additional compensation will be allowed therefor. Contract quantities may be reduced or eliminated based on work to be performed by others. No adjustment in the bid item price shall be allowed due to any change in contract quantities.

The contract price paid per linear foot for **“Grind Concrete Sidewalk”** shall include full compensation for furnishing all labor, supervision, materials, tools, equipment, and incidentals necessary to grind existing sidewalk, including but not limited to- protection of adjacent surfaces, dust control, clean-up, and all the work necessary to conform to the Contract Specifications and as directed by the Engineer, and no additional compensation shall be allowed therefor.

The contract price paid per each for **“Relocate Mailbox on New Post”** shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals necessary to remove and reset mailboxes, including, but not limited to- all excavation and backfill, temporary installations, new posts and concrete footings, and all other work as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

The contract prices paid per square foot for “**Remove Concrete Driveway, Sidewalk or Shoulder,**” “**Remove Asphalt Concrete Driveway, Pathway, or Shoulder,**” and “**Remove Concrete Valley Gutter**” shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals necessary to sawcut, remove, dispose of and/or salvage existing improvements, and all excavation and preparation required to accommodate new improvements as shown on the contract plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

The contract prices paid per linear foot for “**Remove Concrete Curb and Gutter**” shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals necessary to remove and dispose of existing concrete curb and gutter, adjacent asphalt pavement or other paving as necessary to accommodate form boards, and all excavation and backfill as required to accommodate new improvements as shown on the contract plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor. Contract quantities may be reduced or eliminated based on work to be performed by others. No adjustment in the bid item price shall be allowed due to any change in contract quantities.

The contract prices paid per linear foot for “**Remove Asphalt or Concrete Gutter Obstruction**” shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals necessary to remove and dispose of existing concrete or asphalt from the gutter area of the existing curb and gutter as shown on the contract plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

The contract prices paid per linear foot for “**Sawcut Gutter Lip to Clean Neat Edge**” shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals necessary to sawcut, remove, and dispose of the overpour or uneven edges of the existing concrete gutter where noted on the plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

SPECIAL PROVISIONS SECTION SP-18

FULL-DEPTH ASPHALT CONCRETE RECYCLING

(BID ITEM NO. 30, 34)

The provisions of Section 11, “Full-Depth Asphalt Concrete Recycling,” of the Technical Provisions of the Standard Specifications shall apply in their entirety except as modified or supplemented herein.

SP18-01 GENERAL

Pulverizing and mixing shall be performed using a pulverizing machine. A grinding machine shall not be acceptable.

Per Section SP-7, “Existing Utilities,” of these Special Provisions, Contractor shall pothole to confirm all utilities are below the designed street pulverization depth, and that utilities will not be damaged while pulverizing and mixing the existing asphalt concrete, base and subgrade material. Contractor shall take precautions to protect manholes, valves, and similar facilities that have been lowered to the lowest grade possible but are still within the designed pulverizing depth. Pulverizing and mixing of the roadway over these facilities shall be at a depth that provides a minimum of 6-inches of clearance.

Contractor's attention is directed to SP-20-02, "Roadway Excavation," regarding the removal of excess pulverized materials prior to grading and compaction of new subgrade.

All streets designed to receive cement treatment shall be treated within three (3) working days of the pulverizing being completed. The asphalt concrete base course shall be installed within three (3) working days after the minimum 48-hour cure time of the cement treatment. Each day after the total eight-working-day period described above, failure to complete the base course per these Special Provisions shall constitute a violation subject to a penalty of \$250 per violation per street. Said penalty assessment shall be deducted from any payments due to Contractor. In addition, the Engineer may require the implementation of additional dust control measures as outlined in Section SP15 "Dust Control" of these Special Provisions.

SP18-02 MEASUREMENT AND PAYMENT

The final pay contract price paid per cubic yard for "**Full-Depth Asphalt Concrete Recycling**" shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals, and for doing all the work, including, but not limited to- potholing; pulverizing; asphalt dike removal within the pulverizing limits; mixing; moisture conditioning; grading; and compacting pulverized material; constructing, maintaining, removing, and disposing of temporary ramps; dust control; and all other work as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor. Cement treatment is measured and paid separately as follows.

The contract price paid per cubic yard for "**Cement Treat Pulverized Base Material**" shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals for doing all work involved including but not limited to- furnishing, spreading and mixing cement and water; grading; excavation; shaping; compaction; trimming; curing; monitoring and maintenance over weekends and holidays; dust control; proof-rolling; and all other work as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

Payment for excavating, loading, offhauling and disposal of unstable material shall be paid as extra work at the contract item price per cubic yard for "Roadway Excavation," and shall conform to the provisions of Section SP-20, "Excavations," of these Special Provisions. Payment for backfilling unstable areas with asphalt concrete as base repairs shall be paid at the contract item price per ton for "Asphalt Concrete Pavement," and shall conform to the provisions of Section SP-22, "Asphalt Concrete," of these Special Provisions.

The quantities shown for "Full-Depth Asphalt Concrete Recycling" and "Cement Treat Pulverized Base Material" on the Bid Schedule shall be "Final Pay" quantities in accordance with the provisions of Section 9-6 of the General Provisions or the Standard Specifications.

SPECIAL PROVISIONS SECTION SP-19

AGGREGATE BASE **(NO BID ITEM)**

The provisions of Section 8, "Aggregate Base", of the Technical Provisions of the Standard Specifications shall apply in their entirety except as modified or supplemented herein.

For certain installations, in lieu of Class II aggregate base, Contractor may be allowed to use pulverized material with maximum-size aggregates less than two (2) inches, generated from Project Work. The pulverized material shall be free of organic and other deleterious debris. The Engineer shall determine whether the material is suitable as a substitution based on inspection. The Engineer's decision shall be at his sole discretion, shall be final, and shall not constitute a contract change.

SP19-01 MEASUREMENT AND PAYMENT

There shall be no separate measurement or payment for furnishing and placing the aggregate base used in the construction of the various items of work shown on the Plans, bid proposal, and specified herein, and full compensation shall be considered as included in the contract unit prices paid for those bid items requiring aggregate base, and no additional compensation shall be allowed therefor.

SPECIAL PROVISIONS SECTION SP-20

EXCAVATIONS
(BID ITEM NO. 31)

SP20-01 GENERAL

Excavation of all kinds shall conform to Section 3, "Earthwork," of the Standard Specifications Technical Provisions.

Pavement cores were obtained to determine the existing pavement section thickness and subgrade material. The cores for this project do not reveal any concrete in the areas to be excavated. The coring log is shown on the Contract Plans.

Contractor's attention is directed to Section 6-5, "Weight Limitation," of the General Provisions of the Standard Specifications.

SP20-02 ROADWAY EXCAVATION

Work shall include the excavation and disposal of pulverized materials determined by the Contractor to be excess, as part of the Full-Depth Asphalt Concrete Recycling process. Said excavation and disposal shall be to achieve the structural section as shown on the plans and in these Special Provisions. All material not suitable or used as road subgrade, shoulder backing, or backfill shall be considered excess. The excess material shall be removed with a grinding (or milling) machine conveying material directly into hauling trucks, which immediately off-haul the material from the work-site. Disposal shall be in accordance with the provisions of Section 6-16, "Disposal Outside Project Limits," of the General Provisions of the Standard Specifications.

Excess pulverized/mixed material will consist of asphalt concrete, base material and native material, and may contain reinforcing fabric and/or other particles that are a by-product of asphalt concrete. The City makes no guarantee that the material will be reusable or recyclable. No additional compensation shall be allowed to the Contractor if the pulverized material is deemed not reusable or recyclable. Any testing, if required, by the disposal site shall be arranged and paid for by the Contractor.

SP20-03 MEASUREMENT AND PAYMENT

Unless otherwise provided by a Contract Bid Item, there is no separate measurement or payment for excavation associated with various Contract Work, such as curb and gutter, walkway, driveways, and minor structures. All excavation and backfill necessary to construct all Contract Work shall be considered as included in the contract prices paid for the various items of work.

The contract price per cubic yard for “**Roadway Excavation**” shall include full compensation for all labor, materials, tools, equipment and incidentals, and all work involved, to remove, load, handle, off-haul, and dispose of materials as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

The quantities shown for “Roadway Excavation” on the Bid Schedule shall be a “Final Pay Quantity” in accordance with the provisions of Section 9-6 of the General Provisions of the Standard Specifications.

SPECIAL PROVISIONS SECTION SP-21

COLD PLANING
(BID ITEM NO. 32, 33)

The provisions of Section 13, “Cold Planing,” of the Technical Provisions of the Standard Specifications shall apply in their entirety except as modified or supplemented herein.

SP21-01 GENERAL

Cold planing of areas to receive inlay of pavement include planing to correct the grades and cross-slope of the existing roadway. In some areas Contractor may be required to make multiple passes to achieve the desired grades.

SP21-02 MEASUREMENT AND PAYMENT

The contract price per square yard for “**Asphalt Concrete Conform Grind**,” and cubic yard for “**Asphalt Concrete Inlay Grind**,” shall include full compensation for all labor, materials, tools, equipment and incidentals, and all work involved, including but not limited to- sawcutting; grinding; milling; excavating; loading, hauling, and disposing of all grinding material, including asphalt concrete, aggregate base, or subbase; constructing, maintaining, removing, and disposing of temporary ramps; and all other work as required to construct Contract Work as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

SPECIAL PROVISIONS SECTION SP-22

ASPHALT CONCRETE
(BID ITEM NO. 35 THROUGH 42)

The provisions of Section 9, "Asphalt Concrete", of the Technical Provisions of the Standard Specifications shall apply in its entirety except as modified or supplemented herein. Failed pavement area repair shall conform to Section 5, "Street Failed Area Repair," of said Technical Provisions.

SP22-01 OPEN-GRADED FRICTION COURSE

On Reliez Station Road, the finish course shall be an Open-Graded Friction Course conforming to the State Specifications. Aggregate gradation shall be ½-inch OGFC. A separate mix design shall be submitted to the Engineer for approval in accordance to SP5-03.

The "Special Quality Control Provisions" in Section 9-7 of the Standard Specifications Technical Provisions do not apply to open-graded asphalt concrete. Instead, applicable quality control provisions in the State Specifications pertaining to OGFC shall govern.

SP22-02 DRIVEWAYS, PATHWAYS, AND SHOULDER CONFORM PAVING

Asphalt driveway, pathway and shoulder conform limits are approximate. The Engineer will delineate actual conform lines prior to the start of work. Substrate conditions for conform paving differ depending on the project location as shown on the Plans. Conform paving may be installed on existing pavement, on existing base, or on new subbase. In all cases, a paint binder (tack coat) conforming to Standard Specification Technical Provision Section 9-11 shall be required. When conform paving is installed on unpaved base materials, the minimum thickness of finish asphalt concrete paving is three (3) inches.

Where asphalt concrete thickness is required to be three (3) inches minimum, Contractor may install asphalt concrete in multiple lifts to a total thickness greater than three (3) inches to meet the design or conform grades. At Contractor's option, suitable backfill materials may be used to prepare the subgrade such that the finish asphalt concrete paving meets the three (3)- inch minimum. Suitable backfill may be Class II Aggregate Base conforming to SP-19 or pulverized material, having maximum-size aggregates less than two (2) inches, generated from Contract Work and determined to be suitable by the Engineer.

Where a new subbase is required per the Contract Plans, the subgrade shall be excavated and compacted to the required depth to accommodate the design structural section. New subbase shall be six (6) inches minimum, consisting of Class II aggregate base conforming to SP-19 and compacted to 95% relative compaction.

All conforms shown adjacent to a berm of any type shall be paved at the same time as the berm placement and shall be compacted with a vibroplate, small roller, or similar compactor, at the time of placement.

SP22-03 FAILED PAVEMENT AREA REPAIRS

On streets to receive an inlay grind, failed pavement area repairs shall be performed after cold planing is complete, but before any required crack fill repairs.

All work associated with excavating and paving the 6-inch base pavement course in the Special Construction Zones indicated on the project plans shall be measured and paid as "6-Inch Pavement Repair".

SP22-04 ASPHALT BERM (DIKE)

Berms, or dikes, shall be in accordance with applicable details shown on State Standard Plans. Berm locations include those shown on the Plans and any incidental locations adjacent to new concrete curb/apron on Reliez Station Road.

Prior to placement of the berm, the underlying pavement shall be thoroughly cleaned and a tack coat per Standard Specifications Technical Provisions Section 9-11 shall be applied to the pavement surface. The berm shall be placed and compacted utilizing a self-propelled mechanical extruding machine capable of achieving the lines and grades shown on the Plans and the finished dimensions for the specified type of berm. The Contractor shall protect newly-placed berm to allow sufficient time for curing. Berms that slough, fall apart, or otherwise become damaged before curing shall be completely removed and replaced at the Contractor's expense. If a section of berm looks "patched," it shall be entirely removed and replaced with a conforming berm that is smooth and uniform in appearance.

Berms shall be reduced to 2-inches in height at driveways. The top of the berm at driveways shall be compacted with a vibraplate, or similar compactor, at the time of placement. Driveway and shoulder conforms adjacent to any asphalt concrete berms shall be placed and compacted at the same time as the berms to achieve a monolithic construction.

The ends of new berms shall be painted white with two coats of traffic paint for a minimum length of one foot, and a Type "C" pavement marker shall be placed on top of the berm where it tapers to end.

All berms shall be backed with either asphalt concrete conform paving, select fill, pulverized material, aggregate base, topsoil, gravel, or other material that matches the existing surrounding shoulder material.

SP22-05 MEASUREMENT AND PAYMENT

The contract unit price paid per ton for "Asphalt Concrete Pavement" and "Asphalt Concrete Pavement-Open Graded" shall be considered as full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals to complete the necessary work, including but not limited to- cleaning existing pavement; sawcutting; furnishing, transporting, placing, spreading and compacting asphalt concrete; tack coat binder; constructing, maintaining, removing, and disposing of temporary asphalt concrete ramps; all roadway conform paving; any necessary corrective measures; and all other work as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

The contract unit prices paid per square foot for "4-Inch Pavement Repair," "6-Inch Pavement Repair," "AC Driveway or Pathway on Existing Base Material," "AC Driveway or Pathway on New Base Material" and "Conform Pave Driveway and Shoulder" shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals and for doing all work involved including but not limited to- excavation required to install required structural section; subgrade preparation; cleaning; tack coat; furnishing, placing, spreading, and compacting the asphalt concrete to the specified depth; and all other work as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

The contract unit prices paid per linear foot for “Asphalt Berm” of various types shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals necessary to construct the asphalt concrete dike including but not limited to- cleaning; tack coat binder; placing, compacting, protecting and backfilling berms; white traffic paint and Type “C” markers on berm ends; and all other work as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor. Note that in certain constructions the payment of backfill of berms may be included in other items of work elsewhere in the Contract.

SPECIAL PROVISIONS SECTION SP-23

CRACK FILL REPAIR (BID ITEM NO. 43)

The provisions of Section 12-2, “Crack Fill Repairs,” of the Technical Provisions of the Standard Specifications shall apply in its entirety except as modified or supplemented herein.

SP23-01 GENERAL

Contractor’s attention is directed to Section 2-2, “Examination of Documents and Site,” of the Standard Specifications General Provisions.

Crack fill repairs shall be performed after failed pavement area repairs are complete. In addition, on roadways to receive inlay grind, crack fill repairs shall be performed after the cold plane operation.

SP23-02 MEASUREMENT AND PAYMENT

The contract lump sum price paid for “Crack Fill Repair” shall include full compensation for all furnishing all labor, supervision, materials, tools, equipment and incidentals necessary to fill all cracks within the limits of pavement shown on the Plans in accordance to procedures specified in the Project Specifications, including but not limited to- routing, cleaning; tack coat binder; fillers of all kind; and all other work as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

SPECIAL PROVISIONS SECTION SP-24

CONCRETE CONSTRUCTION (BID ITEM NO. 20 THROUGH 28)

The provisions of Section 17, “Concrete Construction,” of the Technical Provisions of the Standard Specifications shall apply in their entirety except as modified or supplemented herein. Section 17-7 of said Technical Provisions shall also apply to construction of storm drain inlets.

SP24-01 GENERAL

The maximum slump for all concrete mixes for this project shall be 4 inches, and the minimum 28-day compressive strength shall be 3,250 pounds per square inch. All new curb, gutter, driveways, and storm drain

structures shall conform to the latest applicable Contra Costa County (CCC) Public Works Department "Standard Plans" unless otherwise specified or modified by Contract Documents. All new concrete construction shall include installation of a subbase consisting of a minimum six (6)-inch-thick layer of Class 2 aggregate base, conforming to SP-19, compacted to 95% relative compaction. Work also includes constructing dowelled connections between new and existing facilities.

All new inlet tops shall have a City-furnished sticker, stating "No Dumping – Drains to Creek." affixed to the curb or other logical nearby location.

The void between the back of new concrete curbs, inlets, and driveways and the surrounding terrain shall be filled with material to match existing surrounding material. This material is typically topsoil, gravel or base rock. Fill material shall be placed and compacted to the top of the new concrete improvements and sloped at a maximum of 3:1 to conform to the existing terrain. The fill material shall be compacted to 90% relative compaction. In areas where topsoil is placed, a 1-inch layer of mulch shall be placed over the topsoil.

SP24-02 CONCRETE REQUIREMENTS

Concrete used for all items on this project shall be Class 564-C-3250 or stronger. The maximum slump shall be four (4) inches.

SP24-03 MINOR CONCRETE CONSTRUCTION

Curb and gutter shall match existing curb and gutter configuration except that 6 inches of base rock shall be placed under new curb and gutter.

Where curb drains exist in curb and gutter to be removed and replaced, Contract Work for the replacement new curb and gutter shall include extending said drain lines to the new face of curb and integrating them into the new construction conforming to the details shown on the Plans or various Standard Plans.

In modifying inlet tops, Contractor shall remove existing tops of inlets in any manner that protects the base of the inlets and their connections to storm drain pipes. Precautions shall be taken to avoid introducing debris into the storm drain system. New inlet tops shall be cast in place and dowelled into the existing inlet base per details on the Plans. Dowels shall have a maximum spacing of 6 inches.

Dowels used in connections between new and existing facilities shall be #4 rebars, 12" long. The dowels shall be in drilled holes, grouted and spaced in conformance with the details shown on CCC Standard Plan CA74i and these Special Provisions. All dowels shall have a minimum 1 ½" concrete cover.

Contractor's attention is directed to the potential existence of private irrigation facilities located behind the existing curb and gutter or at drain inlet locations. Coordination, protection, and relocation of these facilities are considered incidental to Contract Work per Section 7 of the Standard Specifications General Provisions. Contractor shall repair any damage on the same day that it is caused by his activities, to a fully functional condition.

SP24-04 DETECTABLE PANEL

The color of detectable tactile warning panels shall be onyx black. Contractor shall submit a six (6)-inch square sample of the product to be used, along with the manufacturer's product data and "cut-sheets" for review and approval prior to ordering. The detectable warning surface shall conform to:

1. Americans with Disabilities Act (ADA) Title III Regulations, 28 CFR Part 36 "ADA Standards For Accessible Design," Appendix A, Section 4.29 for "Detectable Warnings."
2. Division of the State Architect - Access Compliance (DSA-AC) approved detectable warning products as provided in the California Code of Regulations (CCR) Title 24, Part 2, Section 205 definition of "Detectable Warning."

City may accept products from ADA solutions (800-372-0519), Answer Industries (909-230-4064), and Armor-Tile (916-844-4132).

SP24-05 CONFORM PAVING

Unless otherwise specifically provided elsewhere in these Special Provisions, conform paving adjacent to new concrete construction, such as curb, gutter, inlets and associated aprons, and valley gutter shall be considered to be included in the Contract Work to construct those items. Asphalt concrete for conform paving shall conform to SP-22.

SP24-06 MEASUREMENT AND PAYMENT

The contract price paid per linear foot for "**Concrete Curb and Gutter**," per square foot for "**Concrete Driveway**," "**Concrete Sidewalk**," "**Concrete Valley Gutter**" and "**Concrete Curb Ramp with Detectable Panel**" shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals necessary to complete the work, including but not limited to- sawcutting; excavation and preparing subbase; dewatering; loading, hauling, and disposal of spoils; forming, placing, and finishing concrete; backfill; conform paving; doweled connections; protection, repair, and/or relocation of irrigation facilities; and all other work necessary to construct the facility complete and in place as shown on the plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

"**Concrete Curb Ramp with Detectable Panel**" shall be measured as the portion whose limits are within the outside groove lines up to and including adjacent retaining curbs at variable heights (where applicable) and truncated domes.

The contract price paid per each for the **removal and replacement of various types of inlet tops** shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals for doing all work involved, including but not limited to- sawcutting; excavation and preparing subbase; dewatering; loading, hauling, and disposal of spoils; forming, placing, and finishing concrete; installing frames and grates; backfill; doweled connections; protection, repair, and/or relocation of irrigation facilities; and all other work necessary to construct the facility complete and in place as shown on the plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

Concrete inlet aprons, regardless of size, are measured and paid per linear foot as "Concrete Curb and Gutter."

SPECIAL PROVISIONS SECTION SP-25

REPLACE METAL BEAM GUARD RAIL
(BID ITEM NO. 44)

All work shall conform to the requirements of Section 83, "Railings and Barriers," of the State Specifications, and applicable State Standard Plans, and as shown on the Plans and as directed by the Engineer.

SP25-01 GENERAL

Contractor shall remove completely all sections of existing railing designated to be replaced, including all posts. Existing metal beam sections that are determined to be in good condition by the Engineer shall be salvaged and delivered to City's corporation yard at 3001 Camino Diablo, Lafayette, California. All other removed materials shall be disposed of in accordance with Section 6-16, "Disposal Outside Project Limits," of the General Provisions of the Standard Specifications. Salvaging, handling, and delivery of guard rail beams shall be considered as included in Contract Work to remove said sections.

Contractor shall furnish and install all new wood posts, blocks, and Corten-treated rail. All new hardware (nuts, bolts, washers), posts, and blocks shall conform to the requirements of the State Specifications referenced above. All hardware shall be galvanized and shall conform to the Specifications of ASTM Designation A242. Bolt heads and washers shall be painted brown to match the Corten-treated railing.

Where the section of rail to be replaced includes an end section, Contractor shall furnish and install a new end section conforming to the applicable State Standard Plans for the prevailing condition.

SP25-02 INSTALLATION

All materials needed to complete the construction shall be on-site before beginning the guard rail work.

All post holes shall be augured, unless another method is approved by the Engineer. All holes, except end post holes, shall be backfilled with Class II aggregate base conforming to SP-19. Backfill material shall be moisture treated and compacted by hand-tamping.

End posts shall be backfilled with concrete of Class 590-C-3250 conforming to Section 17 of the Standard Specifications Technical Provisions.

Holes resulting from removal of the existing guard railing posts shall be backfilled with native material compacted to 90% relative compaction.

SP25-03 PAYMENT

The contract price paid per linear foot for "**Replace Metal Beam Guard Rail**" shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals needed to complete the work, including but not limited to- potholing for utilities, removal of existing rails and posts, furnishing and installing posts, blocks, corten-treated rail, end sections, backfill, painting and all other work as shown on the Plans and the State Standard Plans, as specified in these Special Provisions, as directed by the Engineer, and no additional compensation shall be allowed therefor.

SPECIAL PROVISIONS SECTION SP-26, 27

NOT USED

SPECIAL PROVISIONS SECTION SP-28

PAVEMENT STRIPING, MARKERS AND DELINEATION
(BID ITEM NO. 48 THROUGH 57)

The provisions of Section 15, "Pavement Striping, Markers, and Delineation", of the Technical Specifications of the Standard Specifications shall apply in their entirety except as modified or supplemented herein.

SP28-01 GENERAL

Contractor's attention is directed to notification requirements in Section 15-2 of the Standard Specifications Technical Provisions. No payment shall be made for any striping work performed without notification to the City conforming to the above.

During pavement striping and marking operations, the Contractor shall implement traffic control as specified in SP-14 of these Special Provisions.

SP28-02 MEASUREMENT AND PAYMENT

Traffic stripes shall be measured by the linear foot along the line of the traffic stripe without deductions for the gaps, shown on the standard details. Deductions will be made for gaps at cross streets and driveways.

Measurement for legends and markings shall be per the areas shown on State Standard Plans.

The contract prices paid per linear foot for **various thermoplastic stripes and striping details**, per square foot for "**Thermoplastic Pavement Legends & Markings**," and per each for "**Two-Way Reflective Pavement Markers (Blue)**," shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, including any necessary cat tracks, dribble lines and layout work; and all other work as shown on the Plans, the State Standard Plans, and as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

SPECIAL PROVISIONS SECTION SP-29

SURVEY MONUMENT
(BID ITEM NO. 58)

SP29-01 GENERAL

Contractor shall remove and dispose of existing monuments where shown on the plans or as directed by the Engineer. New survey monuments shall be set at locations shown on the Plans or as designated by the Engineer in the field in accordance with the details shown on County Standard Plan CC105, "Street Survey Monument." Frames, covers, collars, concrete cores and brass markers shall be furnished and installed by the Contractor. The City will set reference points, prior to the start of construction, for existing survey points.

At least five (5) working days prior to the installation of monuments, Contractor shall deliver brass markers to the Engineer for the stamping of the land surveyor's license number on the disks.

Survey monument in pavement shall be installed after the final lift of paving is completed and after the City Surveyor has set temporary straddle survey points. If permanent asphalt concrete paving cannot be placed the same day that the monument frame and collar are installed, Contractor shall place and maintain temporary asphalt concrete until the permanent pavement is placed.

SP29-02 MEASUREMENT AND PAYMENT

The contract price paid per each for "**Install New Monument**" shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals necessary; including but not limited to excavation; removing and restoration of asphalt concrete pavement; removal and disposal of existing monuments; concrete collar; placement, maintenance, and removal of temporary asphalt concrete around the monument, and all other work to completely install the monument in place as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

SPECIAL PROVISIONS SECTION SP-30

MISCELLANEOUS CONSTRUCTION
(BID ITEM NO. 29, 46, 59, and 60)

SP30-01 GENERAL

Miscellaneous work covered under this section includes:

- Placing shoulder backing
- Grading earth ditch
- Installing vehicle detection loops

SP30-02 SHOULDER BACKING

Contractor shall place shoulder backing along the edge of the finish course of all new asphalt concrete paving that is not confined by a concrete gutter or other paving. Shoulder backing shall also be placed behind curbs and berms, and other similar vertical edges of construction or void space to either buttress the improvement or conform the work to surrounding grades. Shoulder backing shall consist of clean native material, select fill, aggregate base, or pulverized material to best match the existing surrounding condition. Select fill and pulverized materials shall have maximum-size aggregates less than two (2) inches and be free of organic particles. Aggregate base shall be Class II conforming to SP-19.

Shoulder backing along unconfined edges of pavement shall be at least two feet wide, placed to the top of pavement finished grade, and sloped to match adjacent grades at a maximum slope of 3 to 1, horizontal to vertical. Shoulder backing behind tops of berms and curbs shall be within half an inch of top of curb/berm, and sloped to match adjacent grades as described above. Materials shall be appropriately moisture-conditioned prior to placement. Select fill shall be compacted to 90% relative compaction. Aggregate base and pulverized material shall be compacted to 95% relative compaction. Shoulder backing shall be trimmed neatly and compacted in place on the same day that the material is placed.

Conform between new pavement or improvements and gravel driveways shall be treated as shoulder backing. When disturbing such driveways, Contractor shall salvage sufficient existing gravel to allow for the construction of conforms. If necessary, Contractor shall import new material in kind.

SP30-03 RE-GRADE EARTH DITCH

At the location shown on the Plans and at locations designated by the Engineer, Contractor shall grade the existing earth ditch, removing all earth, vegetation, and root matter to restore positive drainage and provide a neatly-trimmed, well-defined, compacted, and stable embankment at least 18 inches high on both sides of the ditch.

SP30-04 REROUTE EXISTING PRIVATE DRAIN LINE

The existing surface and paving along the new drain alignment shall be sawcut and removed in accordance to SP-17. The existing drain line shall be cut to a neat joint at the point of connection. Excavation of drain line alignment shall conform to SP-20. Drain line shall be PVC Schedule 40 installed at a minimum slope of 0.5%. Contractor shall provide compatible standard elbows, couplings, and similar fittings as required to construct drain line in the intended alignment to terminate at the face of new curb. A clean-out shall be provided at each turning junction in the pipe alignment. Unless otherwise indicated on the Plans, Contractor shall backfill the drain line trench with Class II aggregate base conforming to SP-19, and restore the surface to match existing surrounding material and grade.

Contractor shall submit product data sheets for all components to be used in the drain line construction for review and approval by the Engineer per SP5-03.

SP30-05 NOT USED

SP30-06 VEHICLE DETECTION LOOPS

All work shall conform to Section 86, "Electrical Systems," of the State Standard Specifications. Loop detectors shall be pre-formed suitable for high temperature installation. The loop detectors shall withstand hot tar being poured directly over the loop at up to 450 degrees F.

For a 2-loop series installation, the front loop closest to the limit line or crosswalk shall be located one foot from the line. The remaining loop shall be spaced ten feet from the back of the first loop unless otherwise noted on the Plans.

The front loop closest to the limit line or crosswalk shall be a circular loop with a wire pattern as shown in "Type E Loop Configuration" as shown on ES-5B of the State Standard Plans.

The Contractor shall splice loops to the existing DLC.

In the presence of the Engineer, the Contractor shall test the detectors with a motor-driven cycle (as defined in the California Vehicle 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 feature, components or vehicles designed to activate the detector will not be permitted. The Contractor shall provide an operator who shall drive the vehicle through the detection area of the detector loops at not less than 3 miles per hour or more than 7 miles per hour. The detector shall provide an indication in response to this test.

Any detector loops found to be defective or damaged shall be replaced and retested. The cost of retesting and replacement of defective loops shall be borne by the Contractor and no additional compensation shall be allowed.

Residue resulting from slot cutting operation shall not be permitted to flow across shoulders or lanes occupied by public traffic and shall be removed from the pavement surface.

If any existing loop conductor, including the portion leading to the detector termination pull box, is damaged by the Contractor's operations, the contractor shall immediately notify the Engineer. The damaged loop shall be replaced at the Contractor's expense and as directed by the Engineer within 24 hours. If the Contractor fails to complete the repair within this period, the repairs will be made by City forces at the Contractor's expense.

SP30-07 MEASUREMENT AND PAYMENT

The Contract price paid per linear foot for "**Shoulder Backing**" shall be considered as full compensation for furnishing all labor, tools, equipment, and incidentals and for doing all work involved, including but not limited to- providing, placing, and compacting fill material, and all other work as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

The Contract price paid per linear foot for "**Re-grade Earth Ditch**" shall include full compensation for furnishing all labor, tools, equipment, and incidentals and for doing all work involved, including but not limited

to- removing vegetation, excavation, hauling and disposal of spoils, grading, and all other work as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

The Contract lump-sum price for “**Reroute Existing Private Drain Line**” shall include full compensation for furnishing all labor, tools, equipment, and incidentals and for doing all work involved, including but not limited to- all removals; excavation; hauling and disposal of spoils; backfill; clean-outs and connections; restoration of surface, and all other work to construct a functional system as intended in place, as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

The Contract price paid per each for “**Vehicle Detection Loops**” shall include full compensation for furnishing all labor, tools, equipment, and incidentals and for doing all work involved, including but not limited to- all sawcutting; wires, conduit; making connections of all kinds; and all other work to construct a functional system as intended in place, as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

SPECIAL PROVISIONS SECTION SP-31

TRAFFIC SIGN (BID ITEM NO. 61, 62)

The provisions of Section 16, “Traffic Signs,” of the Technical Specifications of the Standard Specifications shall apply in their entirety except as modified or supplemented herein.

SP31-01 GENERAL

To relocate signs, existing posts to be removed shall be completely removed and the excavation backfilled with material matching the surrounding area and adjacent grades.

At no additional cost to the City, Contractor shall replace all signs damaged by Contractor’s operations or lost while in Contractor’s possession.

Signs posts shall be galvanized 2” Ulti-Mate square post systems or approved equal.

All road signs shall be installed with a minimum of 7’ of vertical clearance measured from the lowest point of the sign panel to the ground surface.

SP31-02 IN-STREET PED CROSSING SIGN

Sign shall conform to the requirements of the latest version of the California Manual of Uniform Traffic Control Devices and shall be Sign R1-6a. Sign shall measure 12” x 36”, constructed of fluorescent yellow diamond-grade sheeting. Post and panel shall be white flexible polyethylene plastic that is resistant to degradation by ultraviolet rays, ozone, and hydrocarbons. Sign panel and post shall be installed on a fixed base securely attached to the pavement surface such that the base does not break away when the sign is struck. The

sign post and panel shall have an anti-twist reactive spring assembly in their connection to the base such that the entire unit rebounds to the upright position when struck.

In conformance with SP-5-03, Contractor shall submit product literature, including any data sheets, to the Engineer for review and approval prior to ordering.

SP31-03 MEASUREMENT AND PAYMENT

The contract price paid per each for “**Relocate Traffic Sign**” shall include full compensation for furnishing all labor, supervision, materials, tools, equipment, and incidentals, and for doing the work involved in removing existing signs and posts, disposal of existing posts and foundations, backfilling excavations, and installing existing signs on new posts complete in place, including mounting hardware, and all other work as shown on the Plans, as specified by these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

The contract price paid per each for “**In-Street Ped Crossing Sign**” shall include full compensation for furnishing all labor, supervision, materials, tools, equipment, and incidentals, and for doing the work involved in installing the specified sign assembly securely and complete in place, including all mounting and fastening components, and all other work as shown on the Plans, as specified by these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

APPENDICES

APPENDIX A

**WASTE MANAGEMENT PLAN
INSTRUCTIONS**



Planning & Building Department

3675 Mt. Diablo Boulevard, Suite 210

Lafayette, CA 94549-1968

Tel. (925) 284-1976 • Fax (925) 284-1122

<http://www.ci.lafayette.ca.us>

WASTE MANAGEMENT PLAN INSTRUCTIONS CONSTRUCTION AND DEMOLITION DEBRIS RECYCLING

GENERAL

The City of Lafayette is mandated by the State of California to divert 50-percent of all solid waste from landfills either by salvage or recycling. To help meet this goal, the City requires completion of a Waste Management Plan (WMP) for covered projects identifying how at least 50-percent of project waste materials will be diverted from the landfill. A "covered project" is defined as:

1. Construction, renovation, and demolition projects where the total costs are projected to be equal to or greater than \$50,000; and/or
2. Construction or renovation projects equal to or greater than 1,000 sq. ft.; and/or
3. Demolition projects equal to or greater than 300 sq. ft.

All phases of a project and all related projects taking place on single or adjoining parcels are considered a single project.

GREEN HALO SYSTEMS

For a covered project, applicants are required to submit their WMP to the City using Green Halo Systems. Green Halo is a free web-based service for waste diversion and recycling tracking. Through Green Halo, applicants can establish, monitor and document their waste management plan and compliance online. Applicants can set-up a Green Halo account at www.greenhalosystems.com. For applicants who do not have access to the internet, Green Halo can set-up an account over the phone at 1-888-525-1301. Once an applicant has created a Green Halo account, they can track and manage multiple projects for different jurisdictions on their account.

PROCEDURE

Prior to issuance of a grading, demolition, and/or building permit for a covered project:

1. Submit a non-refundable administrative fee, payable to the City of Lafayette. See "Planning Fees" handout for current rate.
2. Submit a WMP to the City using Green Halo that includes the following:
 - a) Identification of all the materials you estimate will be recycled, salvaged, or disposed; and
 - b) Identification of which certified C&D facilities the various material types will go.
3. Green Halo will notify the City that a WMP has been submitted. The City will review the submitted WMP on Green Halo. The WMP will only be approved when all of the following conditions have been met:
 - a) The WMP provides all information noted above; and
 - b) The WMP indicates that at least 50% of all construction and demolition debris generated by the project will be diverted.
4. The WMP will be approved or not approved. If the WMP is incomplete and/or fails to meet the required diversion rate, the WMP will not be approved and the applicant will be notified about the reasons for non-approval. No grading, building, and/or demolition permit will be issued until the WMP is approved.

INFEASIBILITY EXEMPTION

If an applicant for a covered project experiences unique circumstances that make it infeasible to comply with the diversion requirement, the applicant may apply for an exemption at the time the WMP is submitted. Increased costs to the applicant generally will not be a sufficient basis for an exemption. The applicant shall indicate on the WMP the minimum rate of diversion he/she believes is feasible for each material and the specific circumstances that he/she believes make it infeasible to comply with the diversion requirement.

UPON COMPLETION OF THE PROJECT

Prior to the final inspection of a grading, demolition, and/or building permit and within 30 days after project completion, the applicant shall submit their WMP to the City through Green Halo for final review. The goal of the final review is to provide documentation to the City showing that the diversion requirement has been met. The WMP submitted for final review shall include the following:

1. Receipts from the certified facilities that collected or received each material showing the actual volume or weight of the material received and how the material was disposed of; and
2. Any additional information the applicant believes is relevant to determining its efforts to comply in good faith with the diversion requirement.

Through Green Halo, the City will review the WMP and documentation noted above and a determination will be made if the applicant has complied with the diversion requirement as follows:

1. **Full compliance** - If the applicant has fully complied with the diversion requirement.
2. **Good Faith Effort to Comply** - If the diversion requirement has not been achieved, the City will determine on a case-by-case basis whether the applicant has made a good faith effort to comply with the diversion requirement. In making this determination, the City will consider the availability of markets for the C&D debris landfilled, the size of the project and the documented efforts of the applicant to divert the C&D debris.
3. **Noncompliance** - If the City determines that the applicant has not complied with the diversion requirement, the City may withhold final project approval until full compliance can be established.

No hold on final shall be released, until the WMP has been provided to and approved by the City as either full compliance or good faith effort to comply.

NONCOMPLIANCE

Please note that if the required documentation is not submitted and approved by the City, or the applicant has not made a good faith effort to comply, the applicant is in noncompliance status and is in violation of the Lafayette Municipal Code (LMC) and is liable for a civil penalty, or any other remedy provided in the LMC. This violation makes the property owner liable to the City for a civil penalty of \$1,000 or one percent (1%) of the project cost, whichever is less. The project will not be approved and holds will not be released, until the project is in full compliance, meets the good faith effort to comply, or the civil penalty has been paid.

APPEAL


Appeal of the determination made by the City shall be made to the City Council within 30 days of the City's determination. To appeal, an applicant must submit a letter to the city manager concisely stating the facts of the case and the grounds of appeal. The city manager will schedule a meeting before the city council and notify the applicant of the date, time, and place. The decision of the city council is final. Appeals shall be limited to:

1. The granting or denial of an exemption; or
2. Whether the applicant has made a good faith effort to comply with the WMP.

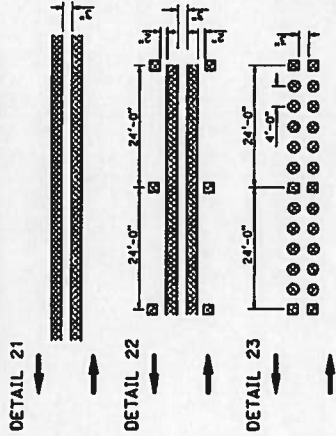
NOTE: The applicant and property owner are responsible for the actions of their contractors or other agents with regard to the diversion requirement. Therefore, when reviewing proposals from project managers, contractors, site cleanup, vendors, and other building professionals, all aspects of the proposal should be considered and not just the cost.

APPENDIX B
STANDARD PLANS

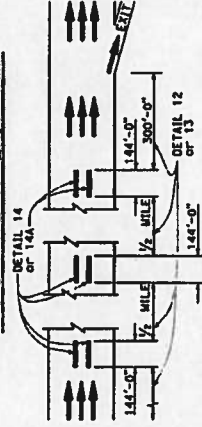
CALTRANS STANDARD PLANS

COUNTY ROUTE DISTRICT PROJECT SHEET NO. 1000

 REGISTERED CIVIL ENGINEER
 May 20, 2011
 PLANS APPROVAL DATE
 THE QUALITY OF THE WORK SHOWN ON THESE PLANS IS THE RESPONSIBILITY OF THE ENGINEER.
 THE STATE OF CALIFORNIA DOES NOT WARRANT THE QUALITY OF THE WORK SHOWN ON THESE PLANS.

NO PASSING ZONES-TWO DIRECTION



**TYPICAL LANE LINE DELINEATION
IN ADVANCE OF EXIT RAMP**



**LEGEND
MARKERS**

- TYPE A WHITE NON-REFLECTIVE
- ◻ TYPE AT YELLOW NON-REFLECTIVE
- ◻ TYPE C RED-CLEAR RETROREFLECTIVE
- ◻ TYPE D TWO-WAY CLEAR RETROREFLECTIVE
- ◻ TYPE G ONE-WAY CLEAR RETROREFLECTIVE
- ◻ TYPE H ONE-WAY YELLOW RETROREFLECTIVE

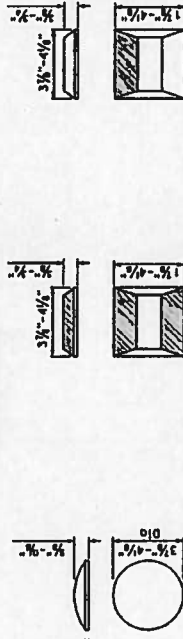
LINES

- 4" WHITE
- 4" YELLOW
- DIRECTION OF TRAVEL

NOTES

Detail 14 is to be used in combination with Detail 12.
Detail 13 is to be used in combination with Detail 12.

MARKER DETAILS



TYPE A AND TYPE AY

TYPE C AND TYPE D

TYPE G AND TYPE H

RETROREFLECTIVE FACE

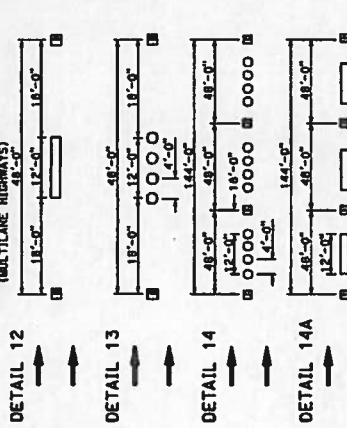
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKERS
AND TRAFFIC LINES
TYPICAL DETAILS**

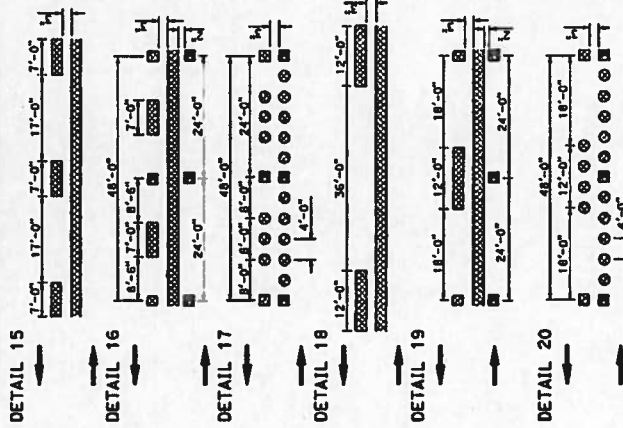
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A20A

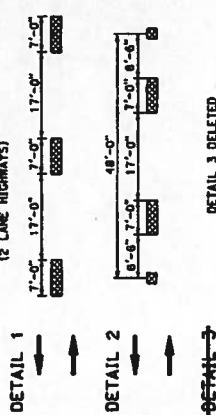
**LANELINES (Cont.)
(MULTILANE HIGHWAYS)**



NO PASSING ZONES-ONE DIRECTION

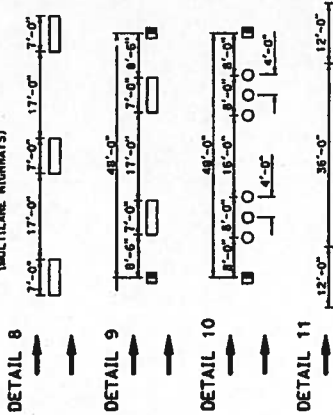


**CENTERLINES
(2 LANE HIGHWAYS)**



DETAIL 3 DELETED

**LANELINES
(MULTILANE HIGHWAYS)**



DIST. COUNTY ROUTE POST MILES TOTAL MILES
 REGISTERED CIVIL ENGINEER
 MAY 20, 2011
 EXPIRES 5/20/12
 STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

LEGEND

MARKERS
 TYPE AY YELLOW NON-REFLECTIVE
 TYPE D YELLOW RETROREFLECTIVE
 TYPE H ONE-WAY YELLOW RETROREFLECTIVE

LINES
 4" WHITE
 4" YELLOW DIRECTION OF TRAVEL

MEDIAN ISLANDS

DETAIL 28
 DETAIL 29
 DETAIL 30
 DETAIL 31

LEFT EDGELINES
 (DIVIDED HIGHWAYS)

DETAIL 24
 DETAIL 25
 DETAIL 25A
 DETAIL 26
 DETAIL 27

RIGHT EDGELINES

DETAIL 27A DELETED
 DETAIL 27B
 DETAIL 27C

INTERSECTIONS

DETAIL 34
 DETAIL 34A
 DETAIL 35
 DETAIL 35A

TWO-WAY LEFT TURN LANES

DETAIL 32
 DETAIL 33

RIGHT EDGELINE EXTENSION THROUGH INTERSECTIONS

DETAIL 27C

MARKER DETAILS

TYPE AY
 TYPE D
 TYPE H

RETROREFLECTIVE FACE

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS

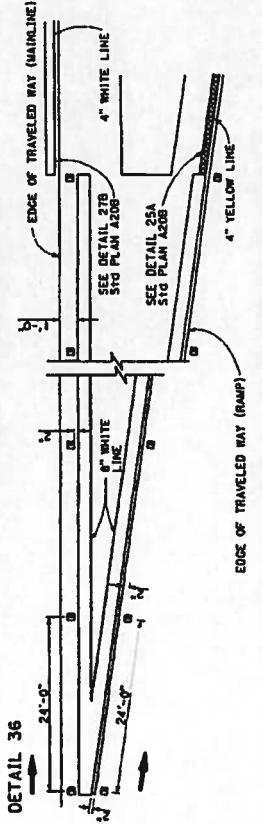
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A20B

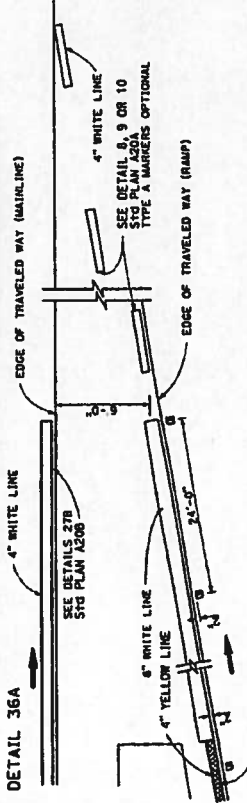
DATE	COUNTY	ROUTE	POST MILE	SECTION



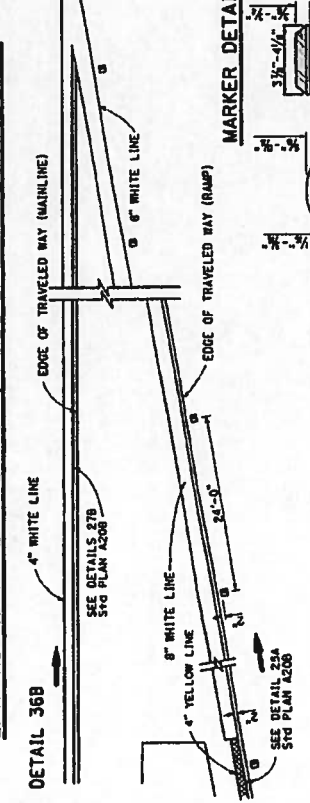
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



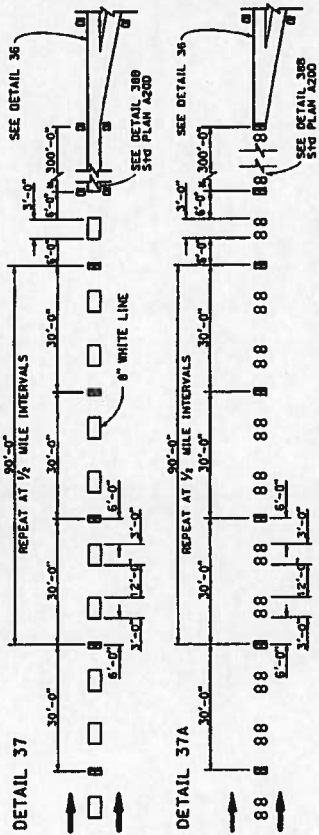
ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



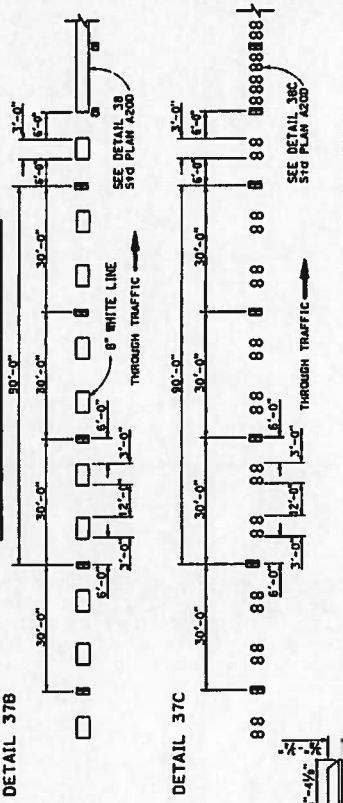
ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT



LANE DROP AT EXIT RAMP

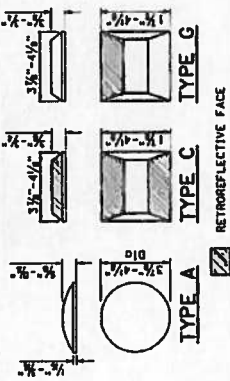


LANE DROP AT INTERSECTIONS



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

MARKER DETAILS



LEGEND
MARKERS
 ○ TYPE A ONE-WAY CLEAR RETROREFLECTIVE
 □ TYPE C RED-CLEAR RETROREFLECTIVE
 ■ TYPE G ONE-WAY CLEAR RETROREFLECTIVE
 ← DIRECTION OF TRAVEL

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKERS
 AND TRAFFIC LINE
 TYPICAL DETAILS**
 NO SCALE

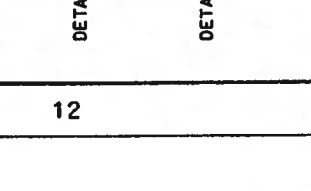
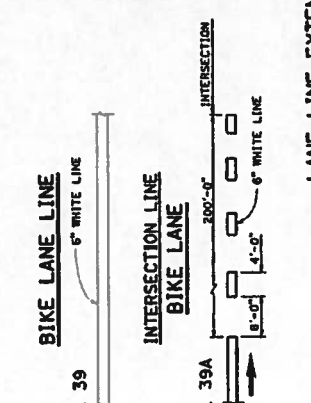
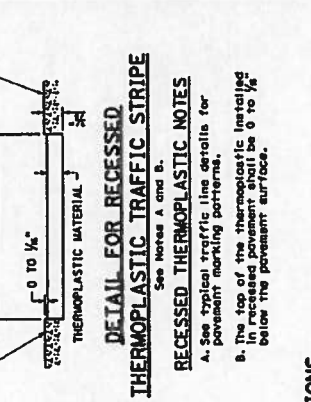
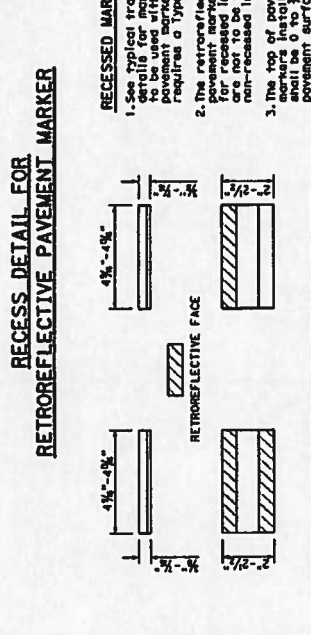
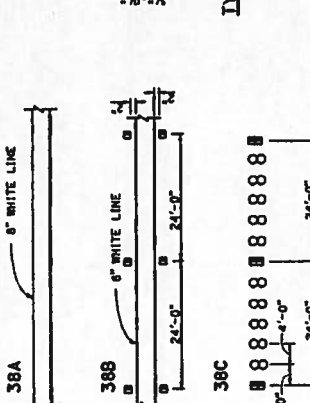
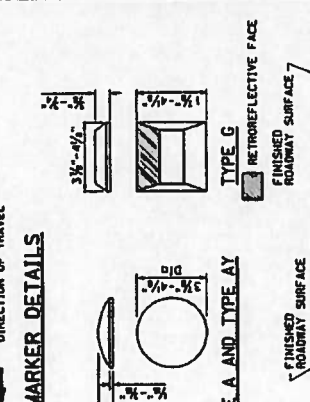
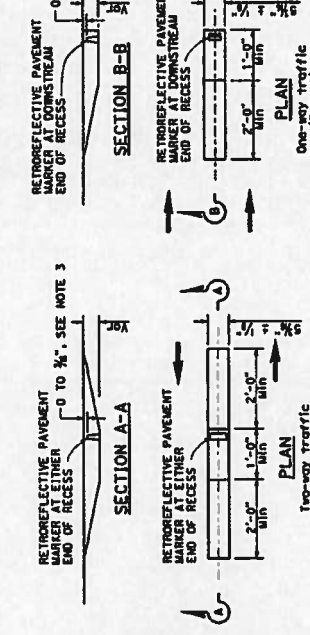
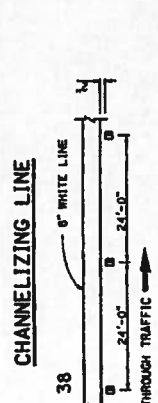
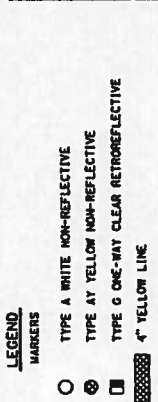
A20C

Return to Table of Contents

DATE	COUNTY	ROUTE	POST MILES	SP. CHECKS	NO. OF CHECKS
May 20, 2011					

REGISTERED CONTRACTOR

 May 20, 2011
 PLANS APPROVAL DATE
 BY STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER
 (COUNTY OF ...)



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 marker installations for recessed installations are not to be used for non-recessed installations.
- The top of pavement markers installed in recesses shall be 0 to 1/4" below the pavement surface.

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 marker installations for recessed installations are not to be used for non-recessed installations.
- The top of pavement markers installed in recesses shall be 0 to 1/4" below the pavement surface.

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 marker installations for recessed installations are not to be used for non-recessed installations.
- The top of pavement markers installed in recesses shall be 0 to 1/4" below the pavement surface.

RECESSED MARKER NOTES:

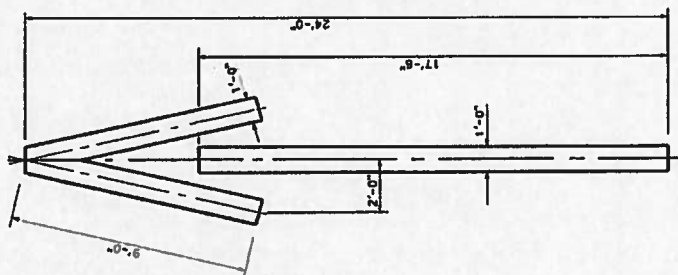
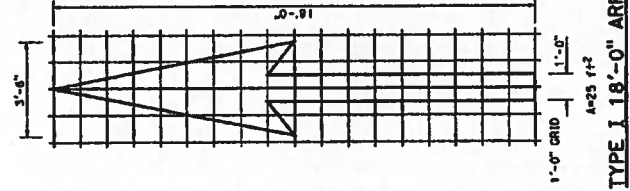
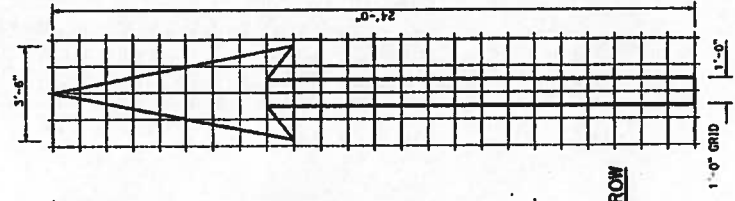
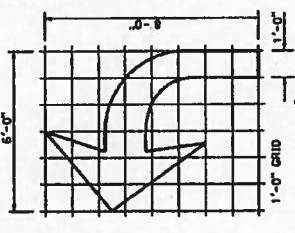
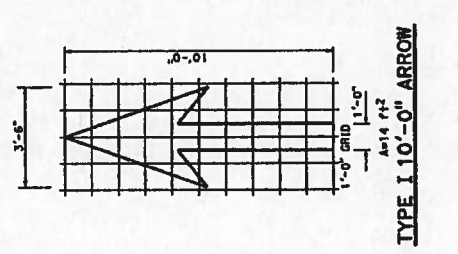
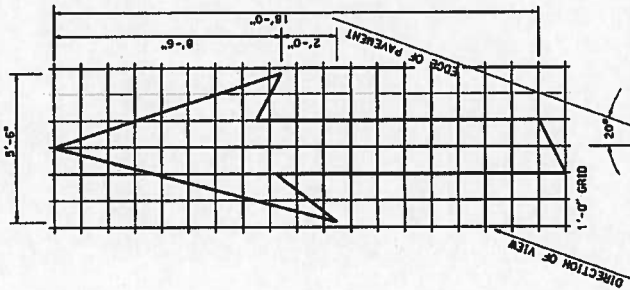
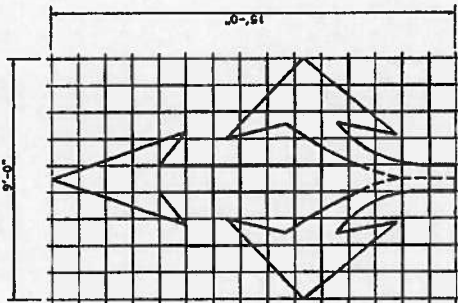
- See typical traffic line details for marker patterns to be used with recessed pavement markers. Detail 14A requires a Type 2 recess.
- The retroreflective marker installations for recessed installations are not to be used for non-recessed installations.
- The top of pavement markers installed in recesses shall be 0 to 1/4" below the pavement surface.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKERS
 AND TRAFFIC LINES
 TYPICAL DETAILS**
 NO SCALE

A20D

PLAN	COUNTY	ROUTE	POST MILE	SECTION	DATE

Professional Engineer Seal:
 State of California
 License No. 17187
 Date of Issue: 11/10/1998
 Expiration Date: 11/10/2011
 Name: [Illegible]



NOTE:
 minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS
ARROWS
 NO SCALE

TYPE VII (L) ARROW
 A=27 ft²
 (For Type VII (R) arrow, use mirror image)

BIKE LANE ARROW
 A=7 ft²

A24A

2010 STANDARD PLAN A24D

CITY	COUNTY	ROUTE	POST MILES	POST MILES	POST MILES

May 20, 2011
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY ENGINEERING
 1201 J STREET, SACRAMENTO, CA 95833
 PHONE: (916) 227-1400 FAX: (916) 227-1401

- NOTES:**
1. If a message consists of more than one word, it should read "Up", i.e., the first word should be nearest the driver.
 2. The space between words should 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 proportionately 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	ft²	ITEM	ft²	ITEM	ft²
TRUCK	21	YIELD	24	BIKE	5
AHEAD	31	SCHOOL	35	SLOW	23
WAIT	19	SIGNAL	32	STOP	22
LANE	6	TURN	24	LEFT	19
RIGHT	26	HERE	26		

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS
WORDS
 NO SCALE

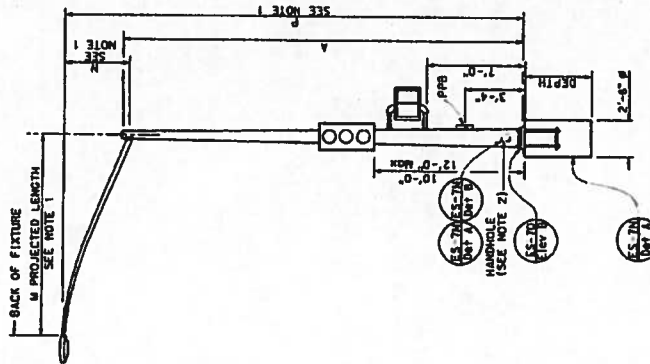
A24D

Return to Table of Contents

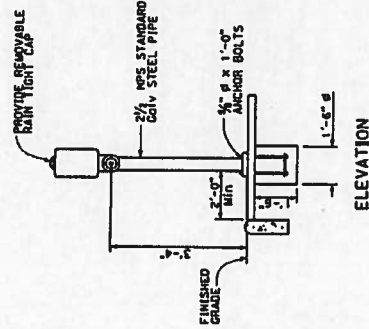
PROJECT	COURT	ROUTE	DATE	SCALE	DATE

REGISTERED CIVIL ENGINEER
 MAY 20, 2011
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
 SAN FRANCISCO OFFICE
 101 CALIFORNIA STREET, SUITE 1000, SAN FRANCISCO, CA 94111-4012

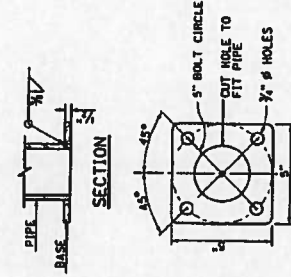
- NOTES:**
- For additional notes, details and data for Type 15TS and Type 21TS Standards, see Standard Plan ES-6A.
 - Handhole shall be located on the downstream side of traffic.



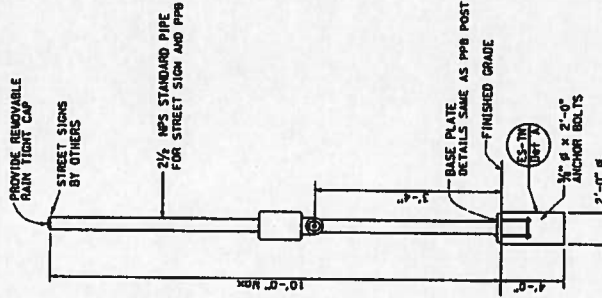
TYPE 15TS AND 21TS STANDARD
 ELEVATION A
 (See Note 1)



PEDESTRIAN PUSH BUTTON POST
 ELEVATION B



BASE PLATE
 PPB POST



COMBINED STREET SIGN
 PEDESTRIAN PUSH BUTTON POST
 DETAIL C

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS
(SIGNAL AND LIGHTING STANDARD, TYPE TS,
AND PEDESTRIAN PUSH BUTTON POST)

NO SCALE

POLE TYPE	POLE DATA			BASE PLATE DATA			CIDH	
	HEIGHT	BASE	TOP	WALL THICKNESS	C	Ø C BOLT CIRCLE		ANCHOR BOLT SIZE
15TS	30'-0"	8"	3 1/2"	0.1783"	1'-1 1/2"	1'-0"	1 1/2" Ø x 42"	7'-6"
21TS	35'-0"	9 1/2"	3 1/2"	0.1783"	1'-3"	1'-2"	1 1/2" Ø x 42"	8'-6"

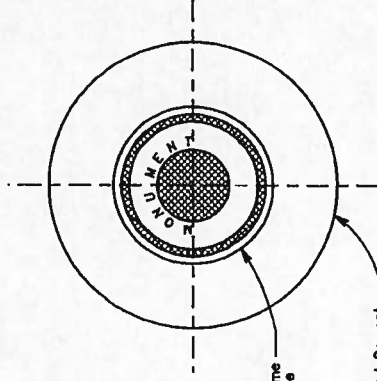
ES-7A

Return to Table of Contents

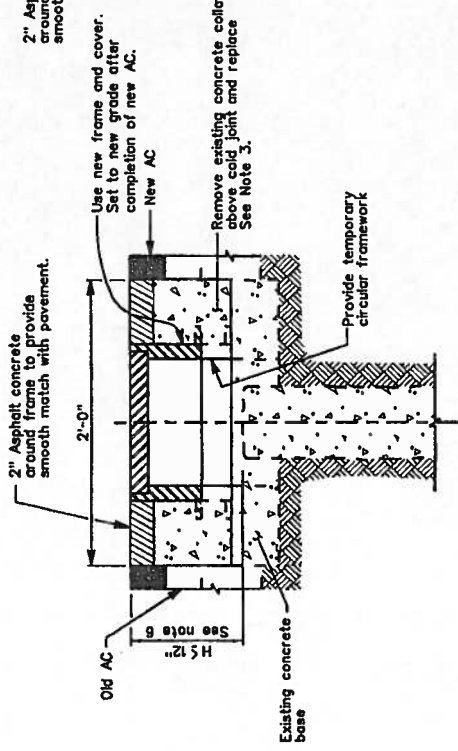
**CONTRA COSTA COUNTY
STANDARD PLANS**



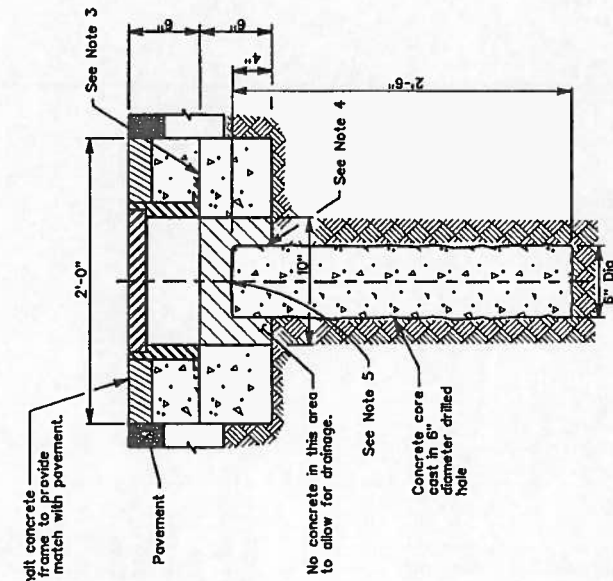
M. Shu
 PUBLIC WORKS DIRECTOR
 3/7/06
 PLANS APPROVAL DATE
 The County of Contra Costa is the owner of the rights of egress and ingress and the right of use and occupancy of the public streets and highways of the State of California.



Metal cover and frame (Schematic only)-See Note 2.
 2" diameter Portland Cement Concrete jacket covered with 2" of asphalt concrete-See Note 1.



FRAME ADJUSTMENT DETAIL



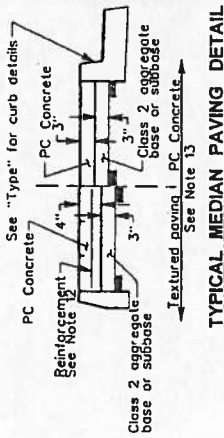
NEW INSTALLATION DETAIL

NOTES:

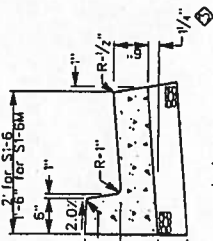
- Portland cement concrete for jacket and core shall be Class 2 (580 lb. PC per cubic yard) with 74" maximum aggregate max-medium grading.
- Approved covers and frames are those manufactured by Crisp Casting, Part No. 9277M or 9279 or approved equivalent. Covers shall be marked "Monument" shall be non-rocking and designed for a 15000 lb. wheel load.
- 30" felt or 1/4" layer of sand to create a "cold joint"
- 6" diameter collar formed with 30" felt.
- Solid brass marker (1/8" diameter top and 7/8" x 2" shank) with distinctive punch and R.E. or L.S. number.
- When "H" exceeds 12", a complete reconstruction of monument is required.

NO.	DATE	REVISION DESCRIPTION	BY	CHECKED BY: R. Ziemmer
2-02		Supersedes Standard Plan CA40 dated 11-99	P.W.	
7-02		Concrete Spec. Revision	HH	
1-06		Var. Revisions, especially adjustments	LC	
				DATE: 2-02
				PLAN NO CA40i

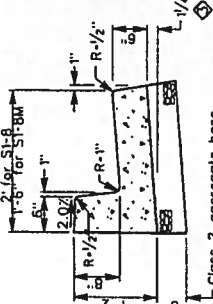
COUNTY OF CONTRA COSTA
 PUBLIC WORKS DEPARTMENT
 MARTINEZ, CALIFORNIA
 STANDARD PLAN
STREET SURVEY MONUMENT



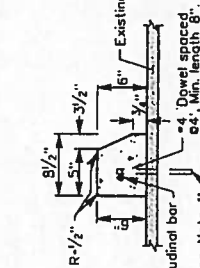
TYPICAL MEDIAN PAVING DETAIL



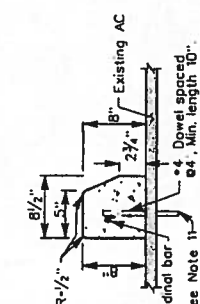
TYPE S1-5 & S1-6M



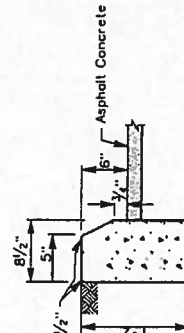
TYPE S1-8 & S1-8M



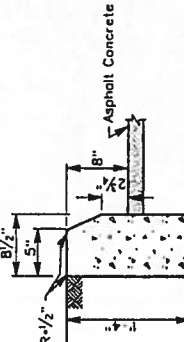
TYPE B3-6 CURB



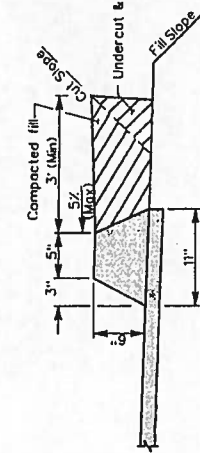
TYPE B3-8 CURB



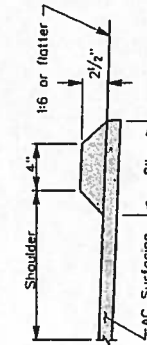
TYPE B1-6 CURB



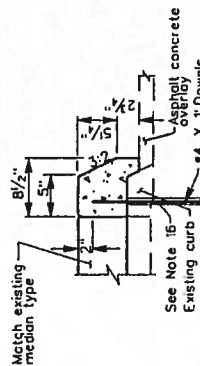
TYPE B1-8 CURB



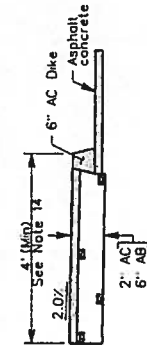
6" AC DIKE



MODIFIED 6" AC DIKE



MODIFIED TYPE B3-8 CURB

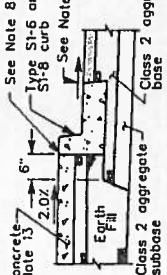


AC PATH WITH AC DIKE

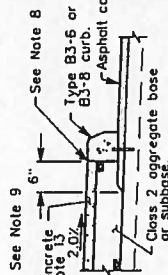
NOTES:

- Class 3 Portland Cement Concrete (505 lb. PC per cu. yard) shall be used for all concrete construction detailed on this plan.
- Weakened plane joints shall be provided at 10' intervals on all curbs. See Standard Plan CA701, "Detail B".
- Curb reference stakes shall not be offset more than 3" from the back of the curb.
- Curb removed for driveway construction shall be sawcut at the weakened plane joint or scoremark nearest to the full width of the driveway the entire curb shall be removed between the cut lines.
- The curb in the depression at the driveway shall be constructed monolithically with the driveway.
- When the street slopes away from the curb, the gutter slope shall match the cross slope of the street.
- Paving at the gutter lip shall conform to "Standard Plan CA701 Detail A", except that where the street slopes away from the curb, the paving shall match the gutter lip.
- Curb may be constructed monolithically with the median paving, in which case a scoremark conforming to Standard Plan CA701 "Detail B" shall be provided along the back of the curb.
- Type "B3" curb shall be used only when placed on existing or overlaid pavement.
- A 3" layer of Class 2 aggregate base or subbase shall be placed under Type "B1" curb unless otherwise noted.
- Place dowels in 1" diameter drilled hole filled with 1:1 sand grout. Omit dowels when curb is extruded.
- Reinforcement shall be "4 bars at 18" OC each way or 6" x 6", 8" x 8", 10 gage welded wire fabric.
- Median paving may be "textured" as specified by the Public Works Department. See "Typical Median Paving Detail".
- Width of asphalt concrete path shall be a minimum of 4' measured from top face of curb.
- All new curb which conforms to existing facilities shall be doweled as per Standard Plan CA741.
- Dowels shall be placed in a 1" diameter drilled hole filled with 1:1 sand cement grout.

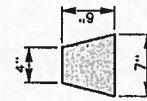
TYPE A TRAFFIC MEDIAN Half Section



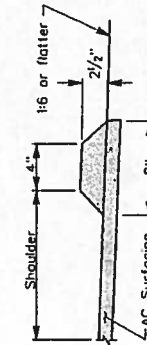
TYPE B TRAFFIC MEDIAN Half Section



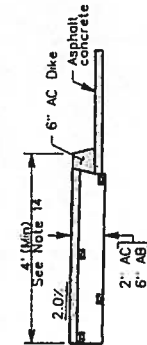
TYPE C TRAFFIC MEDIAN Half Section



MODIFIED 6" AC DIKE



2 3/8" AC DIKE



AC PATH WITH AC DIKE

COUNTY OF CONTRA COSTA
PUBLIC WORKS DEPARTMENT
MARTINEZ, CALIFORNIA
STANDARD PLAN

MEDIAN, CURB AND AC DIKE DETAILS

SCALE: NO. SCALE DATE: 11-02
DRAWN: BY: H. HUSSEY PLAN NO. CA711
CHECKED: BY: H. HOLLINGSWORTH

NO.	DATE	REVISION DESCRIPTION	BY
1	02-02	Supersedes Standard Plan CA71 dated 11-99	P.W.
2	07-02	Concrete Spec. Revision	HH
3	11-02	Corrected Dimension	

M. August 18, 1992

PROFESSIONAL ENGINEER
 MAURICE H. SHUI
 No. 23204
 CIVIL
 State of CALIFORNIA

PUBLIC WORKS DIRECTOR
 11/27/90
 PLANS / APPROVAL DATE

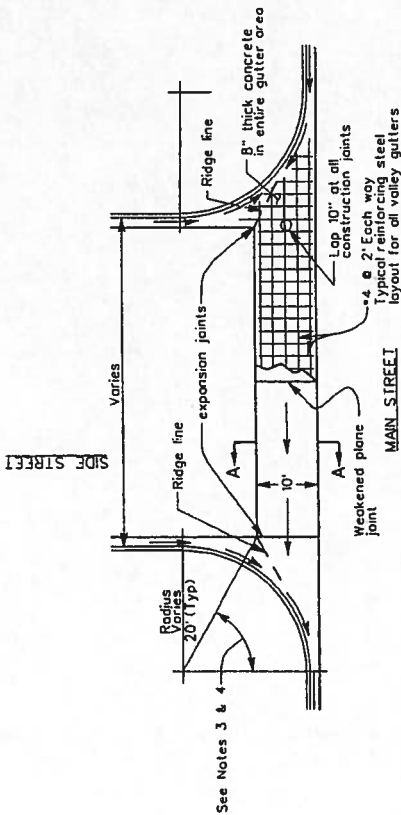
The County of Contra Costa is the owner of this plan sheet. The County of Contra Costa is not responsible for the accuracy or completeness of electronic copies of this plan sheet.

DRIVEWAY CONNECTION
 6" X 6" 100# wire mesh

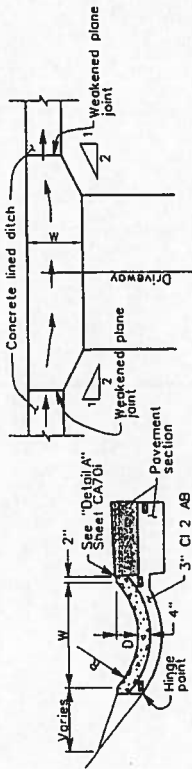
Type	W	R	D
A	36"	63"	3"
B	48"	72"	4"
C	60"	90"	5"

CONCRETE LINED DITCH
 4" thick
 no. reinforcement

Type	W	R	D
A	24"	20"	4"
B	30"	26"	5"
C	36"	30"	6"



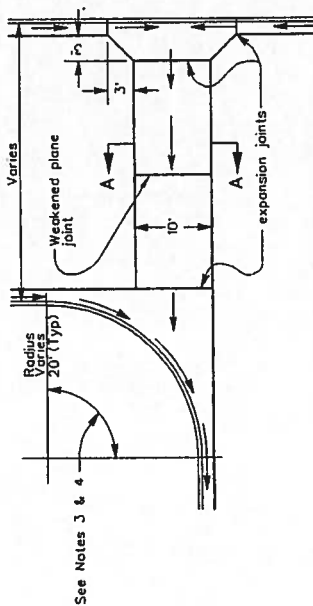
TYPICAL PLAN - VALLEY GUTTER



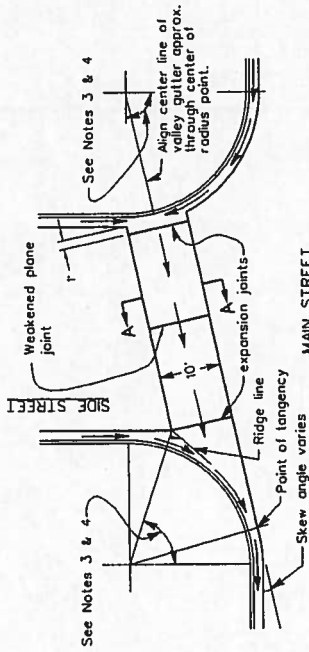
DITCH SECTION

DRIVEWAY SECTION

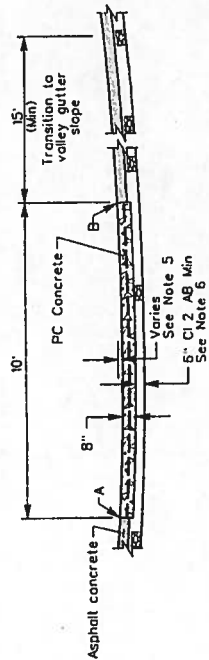
CONCRETE LINED DITCH



JUNCTION PLAN - VALLEY GUTTER



SKEWED JUNCTION - VALLEY GUTTER



SECTION A-A

NOTES:

- Class 2 Portland Cement Concrete (590 lb PC per cu yard, 3" maximum aggregate) shall be used for all construction detailed on this plan.
- Weakened plane joints shall be provided at 10' intervals in curbs and concrete lined ditches.
- The curb return profile within limits shown must conform to the main street profile.
- Height of curb face around curb returns shall not exceed 6".
- Depth of valley gutter shall be 1/4" when main street grade is 2% or less, 2 1/4" when main street grade exceeds 2%. In areas with curb ramps valley gutter cross slope shall not exceed 2%.
- If total pavement thickness of side street exceeds 14", aggregate base thickness shall be increased to match total side street pavement thickness.
- For weakened plane joint and expansion joint details see Standard Plan CA70i "Detail C".
- Use skewed junction configuration to minimize flooding of main street caused by excessive runoff originating on side street. Divert major portion of side street flow to upstream end of valley gutter when possible.
- Valley gutters shall only be used on local roads or roads with a low volume of traffic.

COUNTY OF CONTRA COSTA
 PUBLIC WORKS DEPARTMENT
 MARTINEZ, CALIFORNIA

STANDARD PLAN
**CONCRETE VALLEY GUTTER
 AND CONCRETE LINED
 DITCH DETAILS**

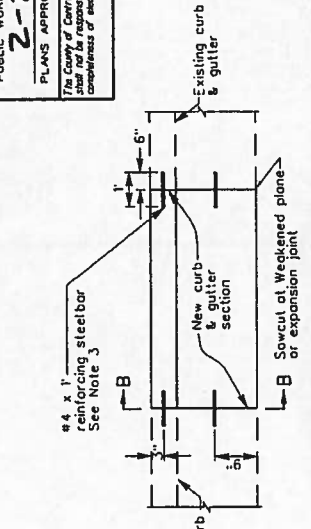
SCALE: NO. SCALE
 DRAWN BY: H. HUSSEY
 CHECKED BY: J. ROLANDSON
 DATE: 7-02
 PLAN NO. CA73i

NO.	DATE	REVISION DESCRIPTION	BY
2-02		Supersedes Standard Plan CA73 dated 11-99	P.W.
7-02		Concrete Spec. Revision	HH

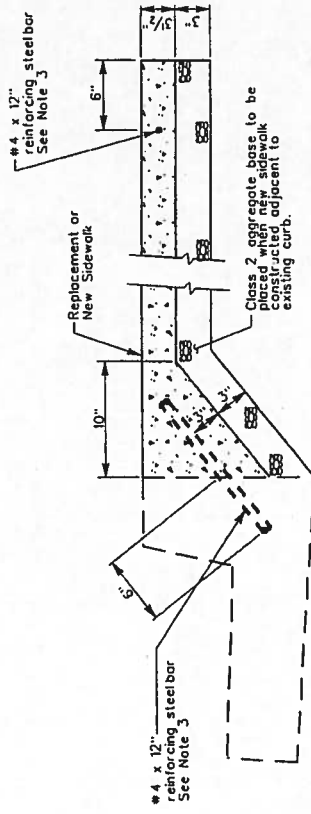
PROFESSIONAL ENGINEER
REGISTERED
 R. MITCH ALABON
 No. 31522
 CIVIL
 STATE OF CALIFORNIA

PUBLIC WORKS DIRECTOR
 PLANS APPROVAL DATE
 2-28-02

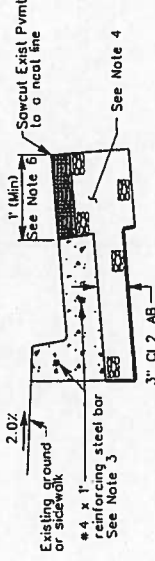
The County of Contra Costa or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



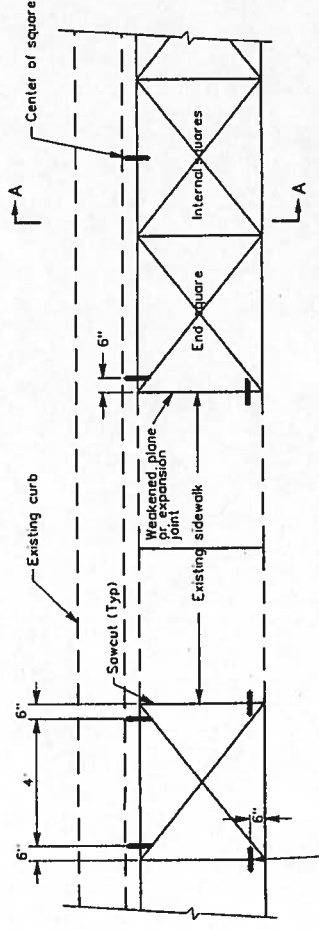
DOWEL LOCATION FOR NEW CURB ADJACENT TO EXISTING CURB



SECTION A-A



SECTION B-B



REPLACEMENT OF ONE SQUARE

REPLACEMENT OF TWO OR MORE SQUARES

DOWEL LOCATIONS FOR NEW SIDEWALK ADJACENT TO EXISTING CURB

NOTES:

1. All curb, gutter, and sidewalk shall conform to Standard Plans CA70i and CA71i.
2. Concrete removed for replacement construction shall be sawcut to a neat line at the weakened plane and marked nearest to the full width of replacement.
3. Dowels shall be placed in a 3/4" diameter drilled hole filled with 1:1 sand cement grout.
4. Asphalt concrete and aggregate base shall be placed to the thickness as required by the Public Works Department. Minimum section shall be 0.5 AC for curb replacement.
5. Paving at the gutter lip shall conform to "Detail A" of Standard Plan CA70i. When the street slopes away from the curb, the paving shall match the gutter lip.
6. The asphalt concrete conform for new of replacement curb shall be placed with a width of 1" minimum from the gutter lip or face of "B" type curb or 1" inside existing edge of pavement whichever is greater.

COUNTY OF CONTRA COSTA
 PUBLIC WORKS DEPARTMENT
 MARTINEZ, CALIFORNIA
 STANDARD PLAN

DOWEL DETAILS FOR CURB AND SIDEWALK

SCALE: NO. SCALE DATE: 2-02
 DRAWN BY: H. HUSSEY PLAN NO. CA74i
 CHECKED BY: M. HOLLINGSBERRY

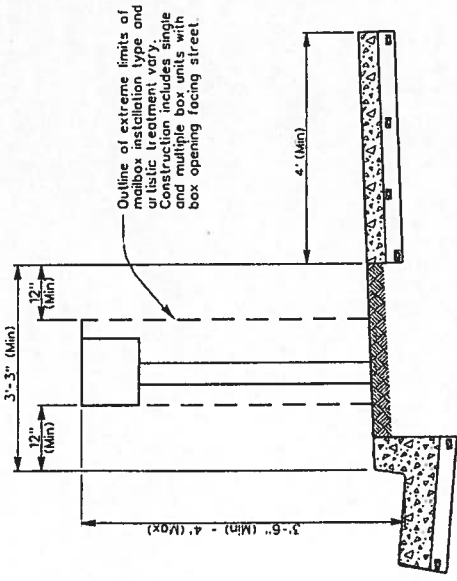
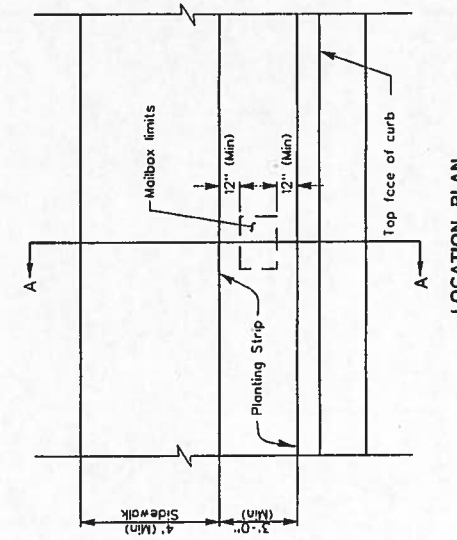
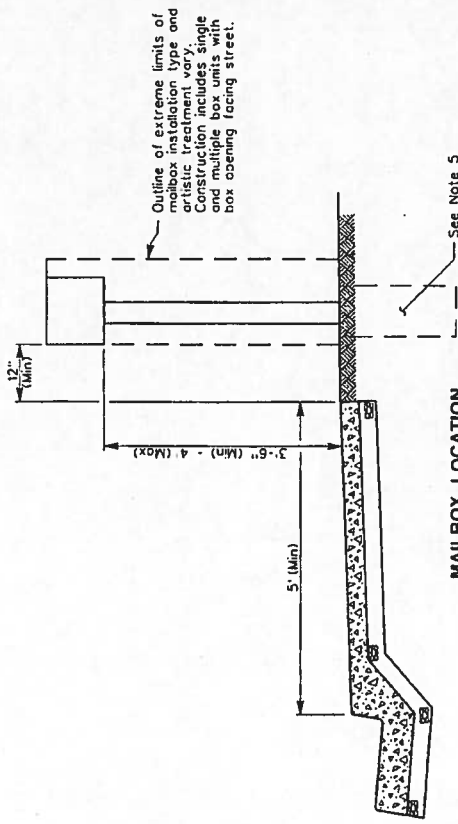
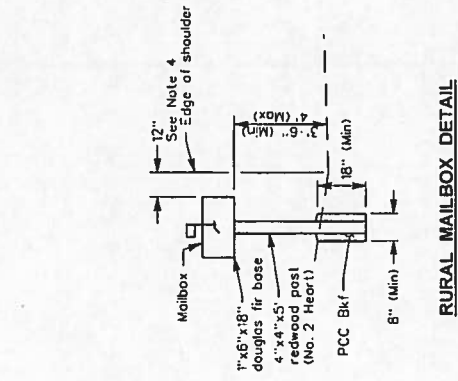
NO.	DATE	REVISION DESCRIPTION	BY
2-02		Supersedes Standard Plan CA74i dated 11-99	P.W.

PROFESSIONAL ENGINEER
R. MITCH AVALLON
 No. 31422
 CIVIL
 STATE OF CALIFORNIA

REGISTERED

PUBLIC WORKS DIRECTOR
7-28-02
 PLANS APPROVAL DATE

The County of Contra Costa is the holder of approval and not responsible for the accuracy or completeness of electronic copies of this plan sheet.



- NOTES:**
- Distances are established by Postal regulations and may vary depending on jurisdiction. Check with local Postal office for current regulations.
 - Encroachment permit is required if mailbox is to be installed in existing sidewalk. Modification requires modification of dimensions shown on this plan.
 - See Standard Plan CA70i & CA71i for sidewalk and curb details.
 - Where AC dike or curb is placed at edge of pavement, the minimum distance is measured from the face of curb.
 - Post depth shall be as required to adequately support mailbox to be installed. Minimum 24" depth without PCC Bklf.

COUNTY OF CONTRA COSTA
PUBLIC WORKS DEPARTMENT
 MARTINEZ, CALIFORNIA

STANDARD PLAN

MAILBOX DETAILS

SCALE NO SCALE DATE 2-02

DRAWN BY H. HUSSEY PLAN NO CA90i

BY CHECKED BY: H. HUSSEY

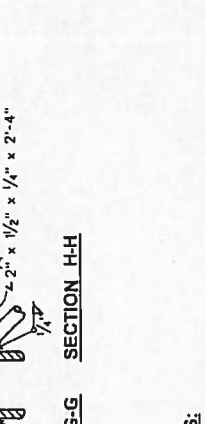
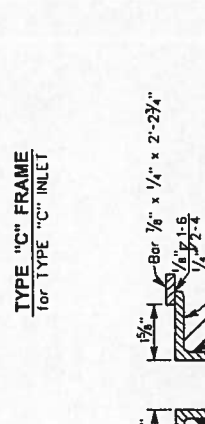
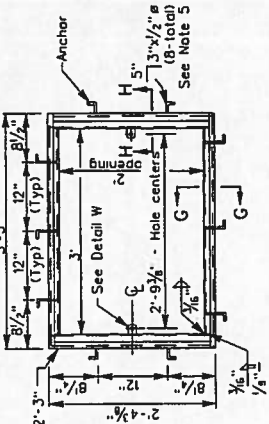
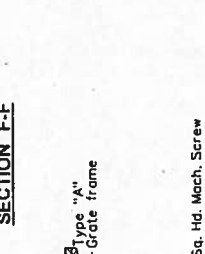
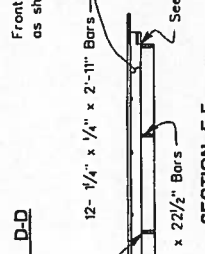
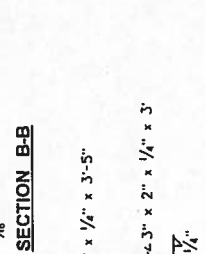
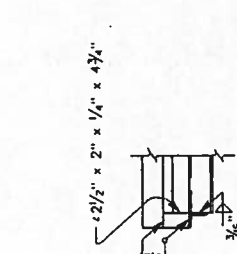
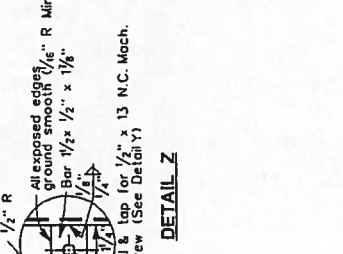
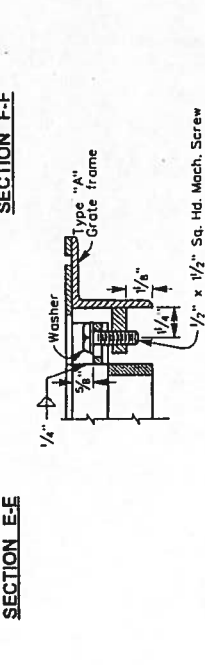
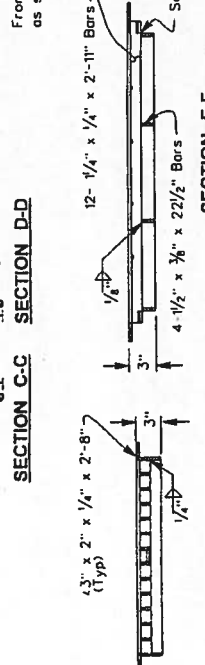
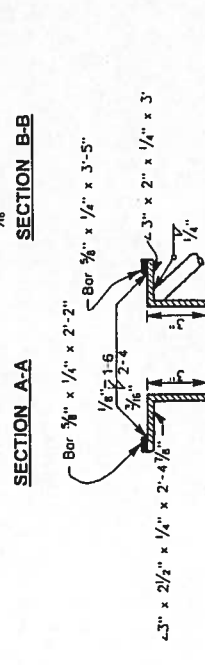
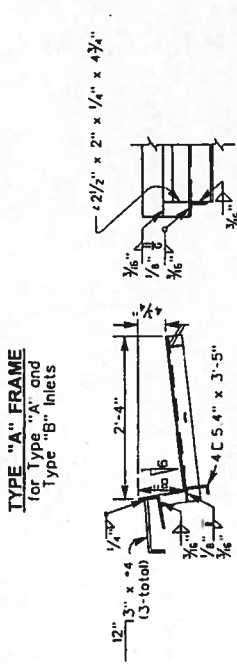
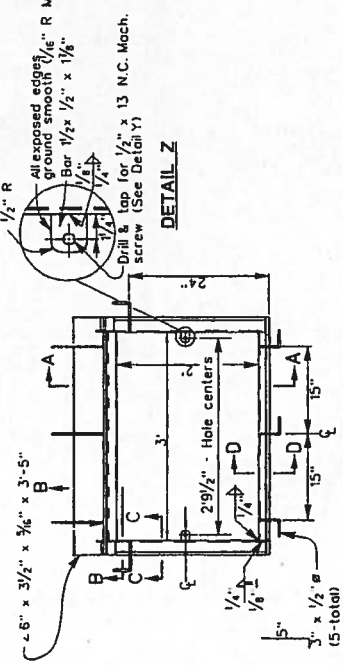
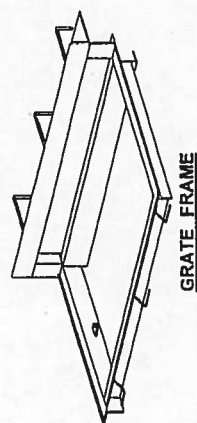
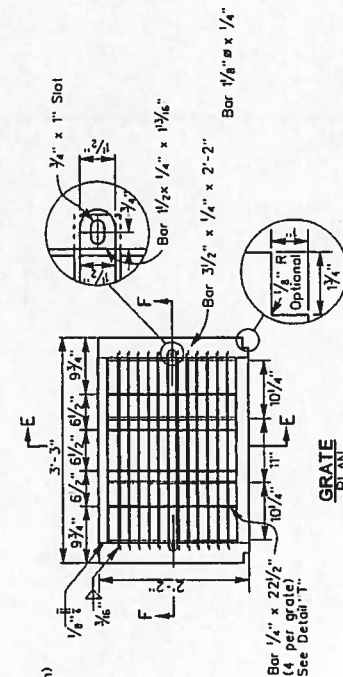
NO.	DATE	REVISION DESCRIPTION
1	12-02	Supersedes Standard Plan CA90 dated 11-99

PROFESSIONAL ENGINEER

R. MITCH AVALLON
No. 31522
Exp. 12/31/03
CIVIL

PUBLIC WORKS DIRECTOR
2-2B-02
PLANS APPROVAL DATE

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- NOTES:**
1. All materials, fabrication, galvanizing, and surface treatment shall be in accordance with Sections 75 and 95 of the State Standard Specifications.
 2. Frames and covers shall fit together without rocking.
 3. Fabricator shall supply fastening screws with frames.
 4. Weights: Type "A" grate frame 88 lbs., Grate 86 lbs..
 5. 1/2" x 5/4" Nelson-Type studs may be used in lieu of 1/2" x 5" x 3" anchors.

COUNTY OF CONTRA COSTA
PUBLIC WORKS DEPARTMENT
MARTINEZ, CALIFORNIA
STANDARD PLAN

INLET FRAME AND GRATE

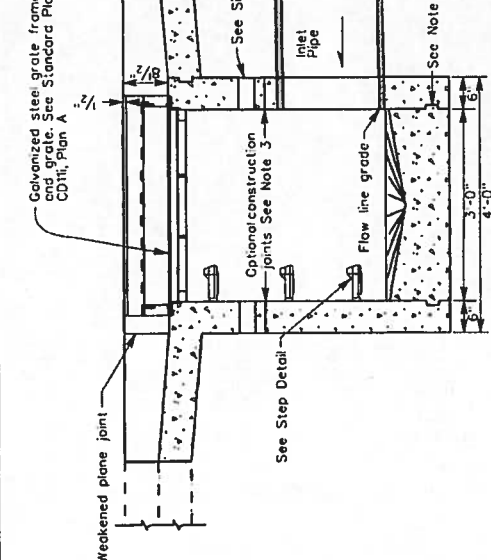
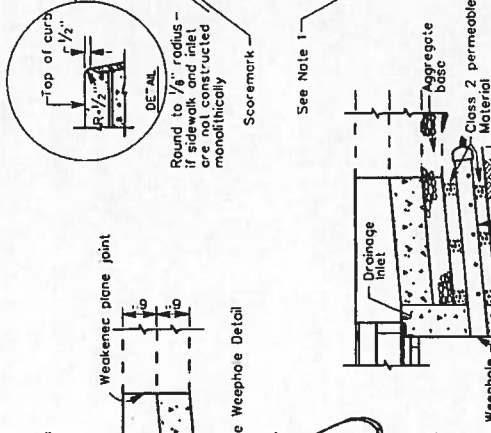
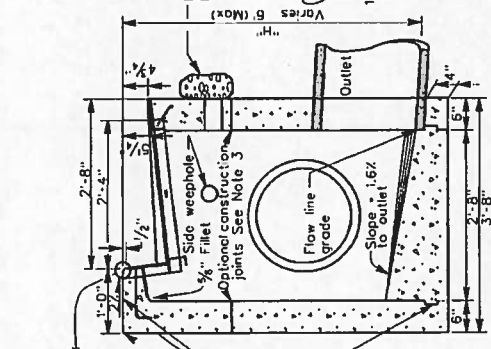
2-02	Supersedes Standard Plan CD11 dated 11-99	P.W.	DATE 2-02
		SCALE, NO. SCALE	
		DRAWN BY: H. HUSSEY	PLAN NO. CD11i
NO.	DATE	REVISION DESCRIPTION	BY: (CHECKED BY) H. HUSSEY

STD. PLAN CD201

PROFESSIONAL ENGINEER
MAURICE M. SHIN
 No. 23204
 CIVIL
 Exp. 12/31/09

PUBLIC WORKS DIRECTOR
 PLANS APPROVAL DATE
 3/27/08

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SECTION OF TYPE "A" OPENING
 ON REQUEST MAJOR BARRELS REFER TO STANDARD PLAN CD301 OR CD321

SECTION B-B
 NO SCALE
 GRATE NOT SHOWN

SECTION A-A
 NO SCALE

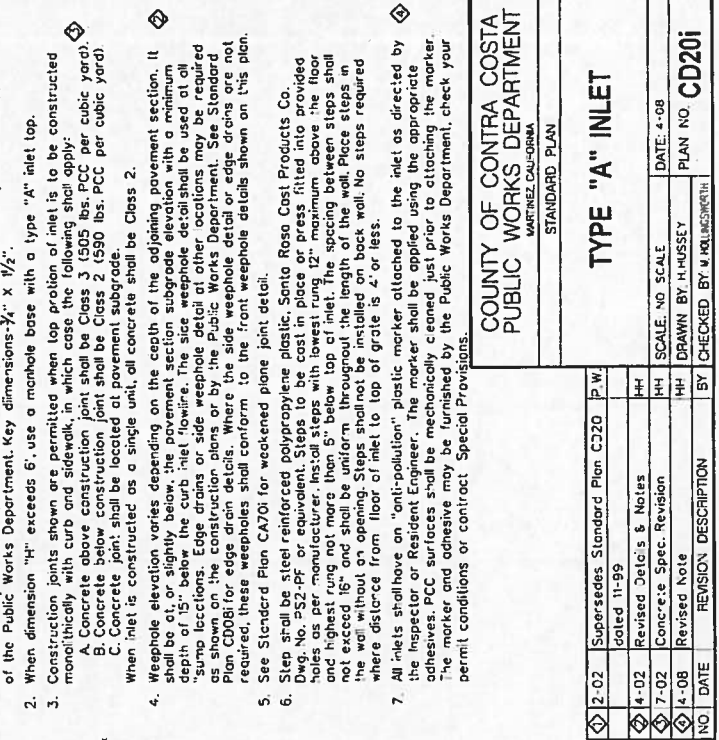
SECTION A-A
 NO SCALE

- NOTES:**
- Construction joints are optional where shown, other locations are subject of the approval of the Public Works Department. Key dimensions $\frac{3}{4}$ " x $\frac{1}{2}$ ".
 - When dimension "H" exceeds 6", use a manhole base with a type "A" inlet top.
 - Construction joints shown are permitted when top portion of inlet is to be constructed monolithically with curb and sidewalk, in which case the following shall apply:
 - A. Concrete above construction joint shall be Class 3 (505 lbs. PCC per cubic yard).
 - B. Concrete below construction joint shall be Class 2 (590 lbs. PCC per cubic yard).
 - C. Concrete joint shall be located at pavement subgrade.
 - When inlet is constructed as a single unit, all concrete shall be Class 2.
 - Weephole elevation varies depending on the depth of the adjoining pavement section. It shall be at least 15" below the curb inlet flowing. The side weephole detail shall be used at all "sump" locations. Edge drains or side weephole detail at other locations may be required as shown on the construction plans or by the Public Works Department. See Standard Plan CD081 for edge drain details. Where the side weephole detail or edge drains are not required, these weepholes shall conform to the front weephole details shown on this plan.
 - See Standard Plan CD701 for weakened plane joint detail.
 - Step shall be steel reinforced polypropylene plastic, Santa Rosa Cast Products Co. Dwg. No. 252-PP or equivalent. Steps to be cast in place or press fitted into provided holes as per manufacturer. Steps with lowest flange 12" maximum above the curb top and highest flange 16" maximum above the curb top. Steps shall be uniform throughout the length of the curb wall. Place steps in the curb without an opening. Steps shall not be installed on back wall. No steps required where distance from floor of inlet to top of grate is 4" or less.
 - All inlets shall have an "anti-pollution" plastic marker attached to the inlet as directed by the Inspector or Resident Engineer. The marker shall be applied using the appropriate adhesives. PCC surfaces shall be mechanically cleaned just prior to attaching the marker. The marker and adhesive may be furnished by the Public Works Department, check your permit conditions or contact Special Provisions.

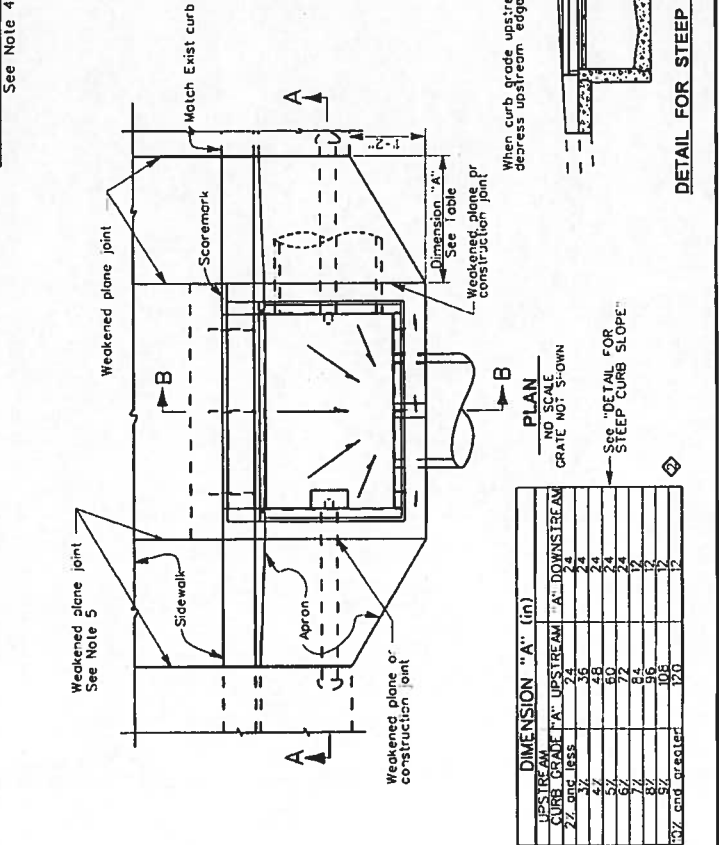
NOTES:

SECTION B-B
 NO SCALE
 GRATE NOT SHOWN

SECTION A-A
 NO SCALE



STEP DETAIL
 See Note 5



DETAIL FOR STEEP CURB SLOPE
 See Note 6

DIMENSION "A" (in)	
UPSTREAM CURB GRADE	"A" DOWNSTREAM
2% to 4%	4% to 6%
4% to 6%	6% to 8%
6% to 8%	8% to 10%
8% to 10%	10% and greater
120	12

COUNTY OF CONTRA COSTA
PUBLIC WORKS DEPARTMENT
 MARTINEZ, CALIFORNIA
 STANDARD PLAN

TYPE "A" INLET

DATE: 4-08
 SCALE: NO SCALE
 DRAWN BY: H. HUSSEY
 CHECKED BY: M. HOLMESWORTH

PLAN NO. **CD201**

M. J. ...
 DIRECTOR
 PUBLIC WORKS DEPARTMENT
 COUNTY OF CONTRA COSTA
 APPROVAL DATE: 3/27/08
 No. 23204
 Exp. 12/31/09

PROFESSIONAL ENGINEER
 MAURICE W. SHU
 No. 12731/09
 CIVIL

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Place 10 cubic feet of Class 1 permeable material (15' x 10' x 1') placed in filter fabric at front weepholes.

Aggregate base
 Class 2 permeable material
 3" Schedule 40 Perforated PVC pipe

SIDE WEEPHOLE DETAIL
 See Note 6

NOTES:

1. Construction joints are optional where shown. Other locations are subject to the approval of the Public Works Department. Key dimensions $3/4" \times 2 3/8"$.
2. Clearance shall be $1/2"$ for all reinforcing steel.
3. The two grate frames shall be securely clamped to the "S" beam during the placement of concrete.
4. Construction joints as shown are permitted when top portion of inlet is to be constructed monolithically with curb and sidewalk, in which case the following shall apply:
 - a. Concrete above construction joint shall be Class "3" (505lbs. PCC per cubic yard).
 - b. Concrete below construction joint shall be Class "2" (590lbs. PCC per cubic yard).
 - c. Vertical reinforcement shall extend 5' above joint.
5. When inlet is constructed as a single unit, all concrete shall be Class "2".
6. Weephole elevation varies depending on the depth of the adjoining pavement section. It shall be at or slightly below the pavement section subgrade elevation with a minimum depth of 15" below the curb inlet flowline. The side weephole detail shall be used at all "sump" locations. Edge drains or side curb weephole detail at other locations may be required as shown on the project plans or by the Public Works Department. See Standard Plan CD08i for edge drain details. Where the side weephole detail or edge drains are not required, these weepholes shall conform to the front weephole details shown on this plan.
7. All dimensions are minimums unless otherwise specified.

SECTION B-B
 GRATE NOT SHOWN

Round to $1/8"$ radius if inlet and sidewalk are not constructed monolithically.

Joint scoremark

Galvanized steel grate frames and grates (See Standard Plan CD11i, Plan A).

Optional construction joints see Note 4

See Step Detail

One 3" weephole on each side of inlet. See Side Weephole Detail

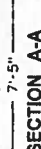
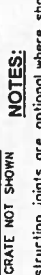
Top of inlet grate 6" Max

Bottom of inlet 7" Max

15" Max

Slope 2" per Ft to outlet

Top of curb $R=1/2"$



SECTION A-A

See Note 8

When curb grade upstream is 5/8" or greater Depress upstream edge of grate frames to 10 inches

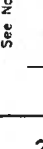
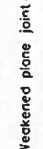
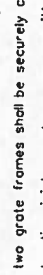
GRATES NOT SHOWN

See "DETAIL FOR STEEP CURB SLOPE"

See Note 8

See Note 8

See Note 8



STEP DETAIL
 See Note 8

When curb grade upstream is 5/8" or greater Depress upstream edge of grate frames to 10 inches

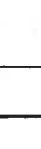
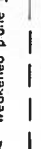
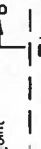
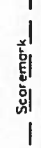
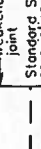
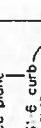
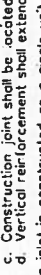
GRATES NOT SHOWN

See "DETAIL FOR STEEP CURB SLOPE"

See Note 8

See Note 8

See Note 8



PLAN

When curb grade upstream is 5/8" or greater Depress upstream edge of grate frames to 10 inches

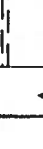
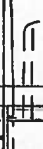
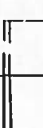
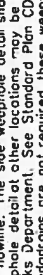
GRATES NOT SHOWN

See "DETAIL FOR STEEP CURB SLOPE"

See Note 8

See Note 8

See Note 8



DETAIL FOR STEEP CURB SLOPE

When curb grade upstream is 5/8" or greater Depress upstream edge of grate frames to 10 inches

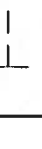
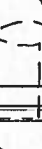
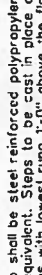
GRATES NOT SHOWN

See "DETAIL FOR STEEP CURB SLOPE"

See Note 8

See Note 8

See Note 8



DIMENSION "A" (in)		
UPSTREAM CURB LEAD	"A" UPSTREAM	"A" DOWNSTREAM
2' and less	24	24
3'	36	24
4'	48	24
5'	60	24
6'	72	24
8'	96	24
9'	108	24
10' and greater	120	24

COUNTY OF CONTRA COSTA
PUBLIC WORKS DEPARTMENT
 MARTINEZ, CALIFORNIA

STANDARD PLAN

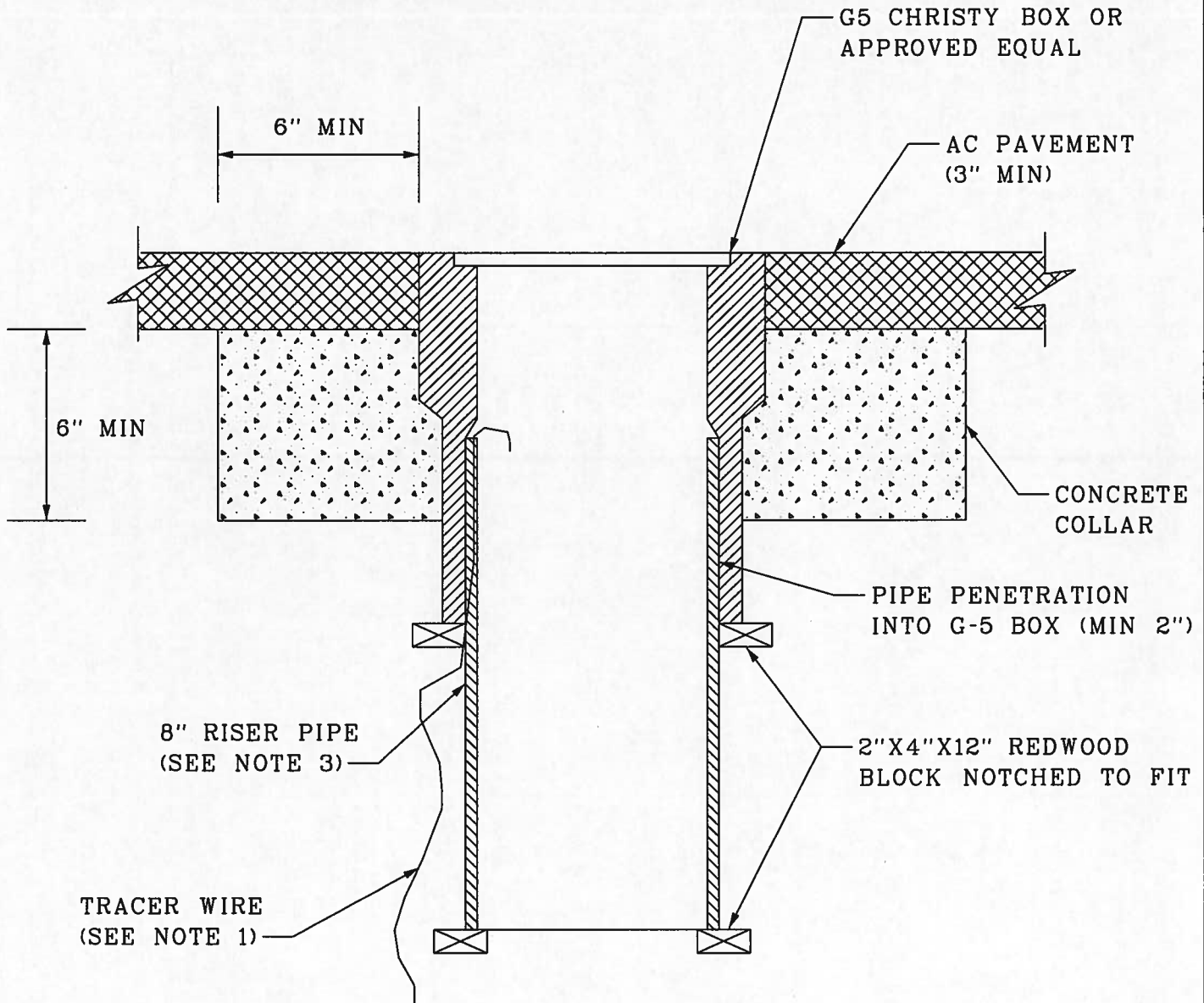
TYPE "B" INLET

SCALE: NO. SCALE
 DRAWN BY: H. HUSSEY
 CHECKED BY: U. WILSON/WH

DATE: 4-08
 PLAN NO: CD21i

NO	DATE	REVISION DESCRIPTION	BY
2-02	Subersedes Standard Plan CD21	P.W.	
	dated 11-99		
4-02	Revised Notes & Dimensions	HH	
7-02	Concrete Spec. Revision	HH	
4-08	Revised Note	HH	

VALVE BOX



NOTES:

1. AC PAVEMENT TO COMPLY WITH STREET PAVEMENT REQUIREMENTS
2. FOR VALVE BOXES INSTALLED IN NON TRAFFIC AREAS, CONCRETE COLLAR SHALL BE EXTENDED TO FINISH GRADE AND SLOPED TO DRAIN AWAY FROM LID.
3. RISER PIPE TO BE ONE CONTINUOUS PIECE, APPROVED PVC CLASS 150, 200 OR STEEL PIPE WITH A MIN 10 GA WALL THICKNESS
4. IF TRACER WIRE IS OF SUFFICIENT LENGTH RE-ROUTE AS SHOWN

G5
VALVE BOX WITH CAST IRON TRAFFIC LID
NTS

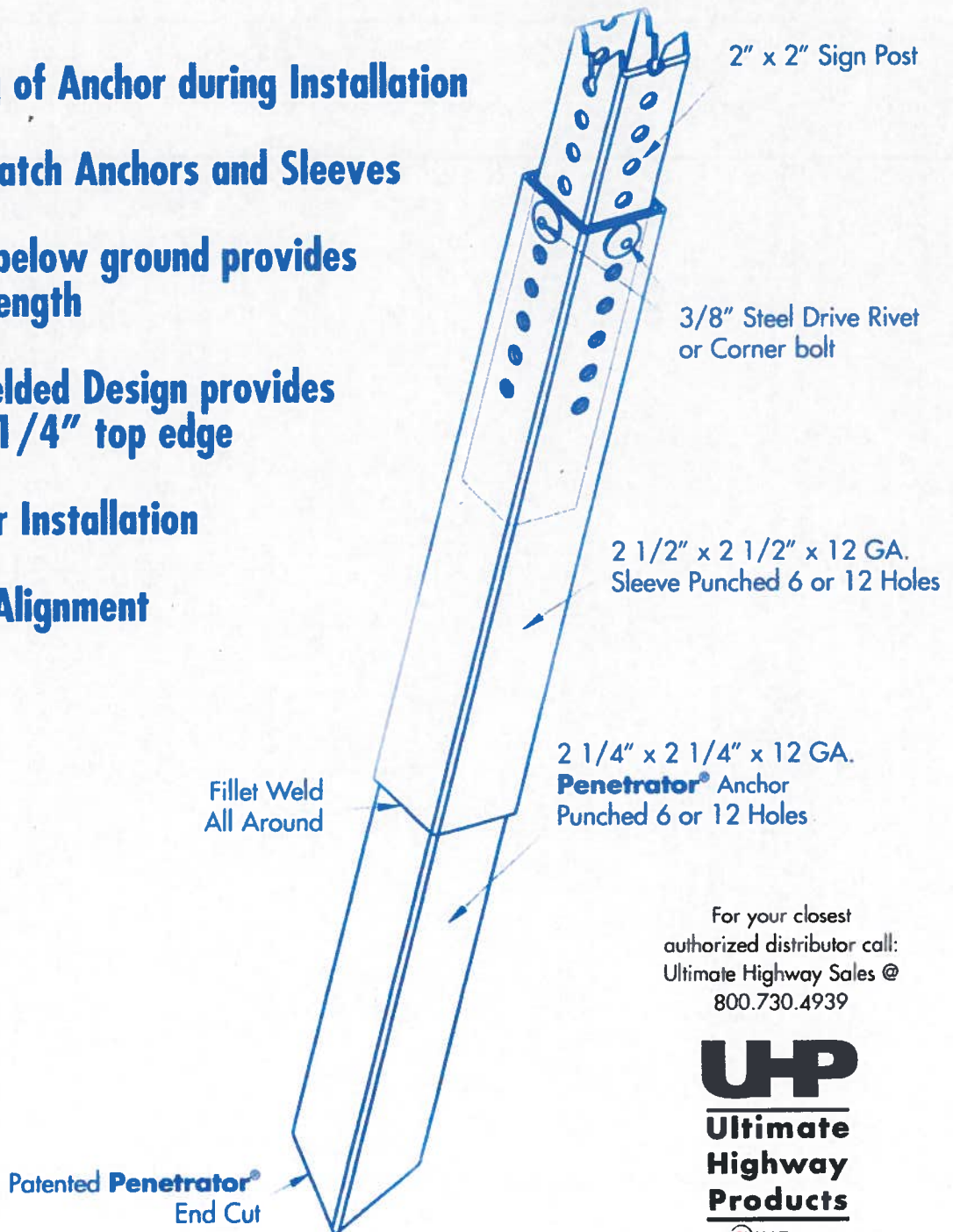
SIGN POST & ACCESSORIES

The Anchor-Mate®

The Best Drivable Anchor in the World!

by **Uiti-Mate**
The Ultimate Sign Support System

- No Deforming of Anchor during Installation
- No need to match Anchors and Sleeves
- Solid section below ground provides additional strength
- Two Piece Welded Design provides almost a full 1/4" top edge
- Quicker Easier Installation
- Perfect Hole Alignment



For your closest authorized distributor call:
Ultimate Highway Sales @
800.730.4939

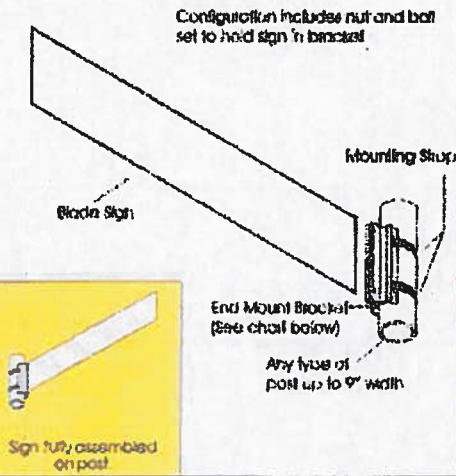
UHP
Ultimate Highway Products
PRIMUS company

www.primus-group.com
ncalvi@comcast.net

STREET SIGNS

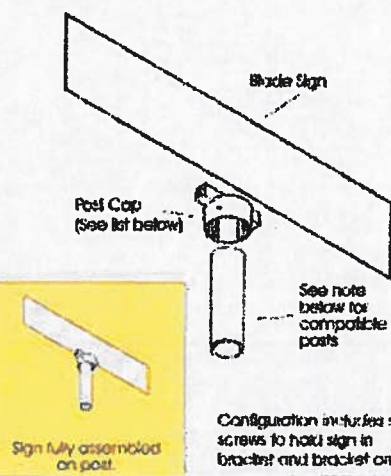
MOUNTING COMPONENTS FOR BLADE SIGNS (EXTRUDED & FLAT)

Configuration: End Mounted



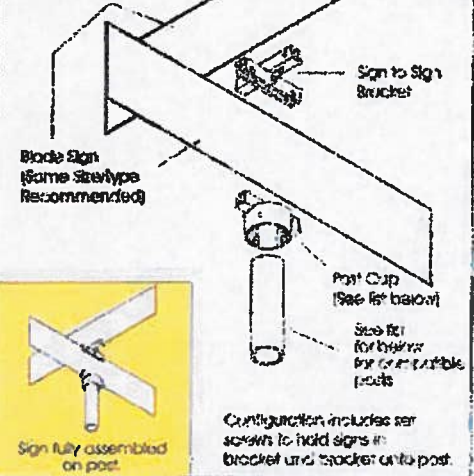
Sign fully assembled on post

Configuration: Single Top of Pole



Sign fully assembled on post

Configuration: Four-Way Top of Pole



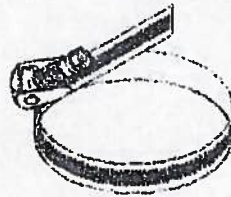
Sign fully assembled on post



END MOUNT BRACKET

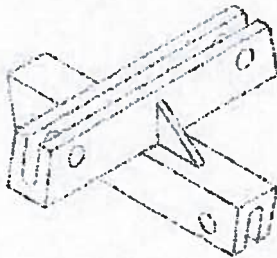
Blade street signs can be held on their ends with this bracket.

EMB-6 for AX-6 or AF-6 signs
EMB-6.75 for AX-6.75 or AF-6.75 signs
EMB-9 for AX-9 or AF-9 signs



MOUNTING STRAP

Stainless Steel Strap/Clamp - inexpensive and convenient for mounting sign brackets and other uses. With a length of 32 inches, the clamp can accommodate poles up to 9 inches wide.






SIGN TO SIGN BRACKET

Bracket allows two blade signs to be stack on top of one another.

707XCS for AX-6 or AX-6.75 signs
808XCS for AX-9 signs
606FCS for AF-6 or AF-6.75 signs
808FCS for AF-9 signs

POST CAPS AND POST INFORMATION

Post caps are recommended for "Single Top of Pole" or "Four-Way Top of Pole" configurations of blade street signs. Western Highway supplies post caps for the most common street sign posts. Use the following chart to see if your posts are compatible with our regularly available post caps.

 Cylindrical Post Cap	Fits 2" ID Diameter Post 707X-2 for AX-6 or AX-6.75 808X-2 for AX-9 signs 606F-2 for AF-6 or AF-6.75 signs 808F-2 for AF-9 signs	Fits 2-1/2" ID Diameter Post 707X-2.5 for AX-6 or AX-6.75 808X-2.5 for AX-9 signs 606F-2.5 for AF-6 or AF-6.75 signs 808F-2.5 for AF-9 signs
 Square Post Cap	Fits Square Tube Post 850X for AX-6, AX-6.75 or AX-9 signs 850F for AF-6, AF-6.75 or AF-9 signs	Other post caps are available. Please call us to confirm inventory.
 U-Channel Post Cap	Fits U-Channel Post 707XU for AX-6 or AX-6.75 signs 808XU for AX-9 signs 606FU for AF-6 or AF-6.75 signs 808FU for AF-9 signs	



www.westernhighway.com




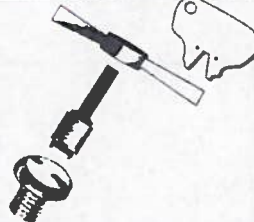

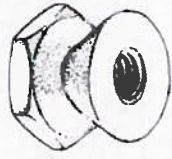
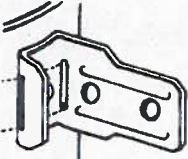
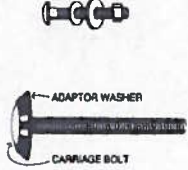
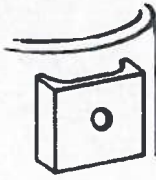
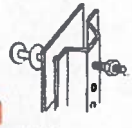

WESTERN HIGHWAY PRODUCTS

10650 FERN AVENUE • STANTON, CA 90680 • FAX 714 952-2118

CALL 714 761-4811 OR 800 479-3783

(WITHIN CALIFORNIA)

SIGN MOUNTING HARDWARE

 <p>H1-SL STRAP-ON BRACKET (Straight Leg) Extra Heavy 1/8" Steel, Hot dipped galv. with 5/16" tapped hole. Slotted for 3/4" Strap. Mounting Bolt not included.</p> <p>H1-SLSS STAINLESS STEEL BRACKET Includes Mounting Bolt.</p>	 <p>H6-STB SEAL-TITE BOLT 5/16" X 1/2" bolt with Neoprene washer for mounting Signs with tapped brackets or pipe.</p>	
 <p>H2-FL STRAP-ON BRACKET (Flared Leg) For banding to large poles. Extra Heavy 1/8" Steel, Hot dipped galv. with 5/16" tapped hole. Slotted for 3/4" Strap.</p> <p>H2-FLSS STAINLESS STEEL BRACKET Includes Mounting Bolt.</p>	 <p>H6-TPBKEY KEY WRENCH For tamper proof bolt</p> <p>H6-TPDR RACKET DRIVER For tamper proof bolt</p> <p>H6-TP TAMPER PROOF BOLT 5/16" X 1/2" special spanner head bolt. Use same as H6-STB bolt.</p>	
 <p>H3-CLB STRAP-ON BRACKET CANTILEVER Heavy Gauge Aluminum. Use one for each sign hole. For mounting double face Signs - slotted for 3/4" strap and punched for 5/16" bolts.</p>	 <p>H6-VGNG For Galv. Bolt H6-VGNP For Plated Bolt VANDLGARD-NUT Tamper Proof Nut for Sign Mounting. Call Western Highway for information on this unique, easily installed nut that cuts sign losses.</p>	
 <p>H4-D-007 STRAP-ON L-MOUNT BRKT. Stainless Steel Double holes for mounting long signs. May be used back to back in pairs for extra rigid cantilever mounting. Slotted for 3/4" Strap.</p>	 <p>H6-2.5 BG 2 1/2" - Galv. H6-2.5 BP 2 1/2" - Plated BUTTON THEFT PROOF BOLT When this button head bolt is used with nut H6-VGN above, theft is almost impossible. 5/16" Diameter. Available in both galvanized and plated.</p> <p>H6-4.5 CB 4 1/2" Plated Carriage Bolt includes adaptor washer. Washer can be sold as separate item.</p> <p>ADAPTOR WASHER CARRIAGE BOLT</p>	
 <p>H5 BOLT-ON SPACER Galv. Channel Iron 1 1/2" x 1 1/2" x 1/8" Provides flat mounting surface when bolting sign to any size pipe to prevent wobble.</p>	 <p>H6-23 SIGN MTG. HDWR. For U Channel Posts Aluminum spacer 3 1/2" x 2 1/2", 5/16" x 2 1/2" Bolt, Washer and Nut.</p>	 <p>H6-24 GUIDE PLATE MTG. HDWR. 1/4 X 1/2" Bolt, Washer and Lock Nut (6 sets reqd. per Guide Marker).</p>

SIGN MOUNTING HARDWARE



HWSSC
STAINLESS STEEL-CLAMP
 Inexpensive and convenient for mounting sign brackets and other uses. 32" long fits 2" to 9" diameter pipe pole.



H14-C130
3/4" STRAPPING TAPE
 015 Stainless Steel
 200 Ft. Roll.



H9-2
H9-2.5
CLAMP ON U-BRACKETS
 (Single Bracket)
 Includes steel zinc coated U bolt with nuts and cast aluminum bracket. Sign fastening bolt not included.
 (Use H6 STB or H6 TP)
 Fits 2" and 2 1/2" I.D. standard pipe, eliminates strapping or drilling holes.

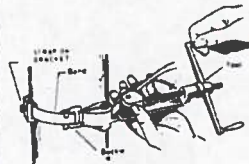
H14-C163
3/4" STRAPPING TAPE
 020 Stainless Steel
 200 Ft. Roll.



H14-C156
VALUE CLIP
 100 per Box



H10-1 (3/16 x 1 x 36")
SIGN BRACE (Galv.)
 To fit 4 x 4 posts
H10-2 (3/16 x 1 x 37 1/4")
 To fit 4 x 6 posts
H10-4 SHG
HEX HEAD BRACE BOLT
 5/16" x 4 1/2" includes nut & washer
H10-6 SHG
HEX HEAD BRACE BOLT
 5/16" x 6 1/2" includes nut & washer
H10-8 SHG
HEX HEAD BRACE BOLT
 5/16" x 8 1/2" includes nut & washer



H16-C001
BANDING TOOL
 For use with any size Banding or Strapping Tape.



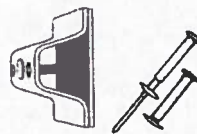
H11-C203 3/8"
H11-C204 1/2"
H11-C205 5/8"
H11-C206 3/4"
HEAVY DUTY
BANDING TAPE
 030 Stainless Steel 100 Ft. Roll



H19-HP2
HAND PLIER RIVETING TOOL
 For self-setting rivets. Complete with 4 size Heads - 3/32, 1/8, 5/32, 3/16.



H20-AB66A
3/16" SELF-SETTING RIVETS
 For fastening C.M. Refl. Buttons with Hand Plier. 100 per Box.



H20-18
1/4" x 7/8" POP RIVET
 100 per Box.

H20-26
CHERRY-MATE FASTENER
1/4" X 1 3/8" POP RIVETS
 A convenient way to mount signs on the H21-SP sign posts. 100 per Box.







H16-C253 3/8"
H16-C254 1/2"
H16-C255 5/8"
H16-C256 3/4"
HEAVY DUTY
BUCKLES
 Stainless Steel 100 per Box



H20-316 3/16" x 9/16"
DRIVE RIVETS
 For fastening C.M. Refl. Buttons with Hammer.

H20-38 3/8" x 1/2"
 For sign mounting. 100 per box.

SIGN POST

<p>H21-DP DELINEATOR POSTS HOT DIPPED GALVANIZED OR BAKED ENAMEL GREEN 5 ft. 6 ft. 1.12 #/ft 30 - 3/8" holes on 1" centers. Light weight but strong. Ideal for Delineators, or marking utility lines.</p> 	<p>H21-GP 5 ft., 6 ft. GUIDE POSTS (FOR MTG. TARGET PLATES) H21-GP 40 Inch (for mtg. Type "K" Plates) California Spec. Flanges slotted ends pointed.</p> 	<p>PIPE POST H21-RP2-12 H21-RP2.5-12 H21-RP2 H21-RP2.5 GALVANIZED STEEL PIPE POSTS Schedule 40 steel pipe 2 inch and 2 1/2 inch I.D. 10 1/2 ft. and 12 ft. long. IN STOCK</p> 	<p>"U" CHANNEL POSTS HOT DIPPED GALVANIZED OR BAKED ENAMEL GREEN H21-SP SIGN POSTS 6 ft. 7 ft. 8 ft. 9 ft. 10 ft. 11 ft. 12 ft. 2 lb. per foot <small>(Other lengths on special order) Hot rolled, high carbon, rail steel. 3/8" holes punched on 1" centers, full length. Bottoms pointed. High carbon steel is recommended because it resists bending. Meets & exceeds California State specifications</small></p> 
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Uti-Mate®

The Ultimate Sign Support System



DIRECT INSTALLATION

The Uti-Mate sign post can be installed directly into the ground using power equipment or a sledgehammer with drive cap.



EZ INSTALLATION

The Uti-Mate 12 gage anchor system allows crews to work at ground level for fast installations and replacements. The Uti-Mate anchor is installed directly into the ground, leaving 1 or 2 holes above grade level. The Uti-Mate sign post slides into the anchor for safe and easy installations.



HI-IMPACT INSTALLATION

The Uti-Mate double 12 gage system is for areas that require frequent replacements due to damaged sign posts. This unique method utilizes a two-piece breakaway anchor that makes replacement work fast and safe.

English				Metric		
Tube Size	Wall Thickness		Pounds Per Foot	Tube Size	Wall Thickness	
	Gage	Inches			(mm)	Kilograms Per Meter
1.75 x 1.75	14	0.083	1.71	44.45 x 44.45	2.10	2.54
2.00 x 2.00	14	0.083	1.99	50.80 x 50.80	2.10	2.96
2.25 x 2.25	14	0.083	2.28	57.15 x 57.15	2.10	3.39
1.50 x 1.50	12	0.105	1.74	38.10 x 38.10	2.66	2.59
1.75 x 1.75	12	0.105	2.09	44.45 x 44.45	2.66	3.11
2.00 x 2.00	12	0.105	2.44	50.80 x 50.80	2.66	3.63
2.25 x 2.25	12	0.105	2.79	57.15 x 57.15	2.66	4.16
2.50 x 2.50	12	0.105	3.14	63.50 x 63.50	2.66	4.69

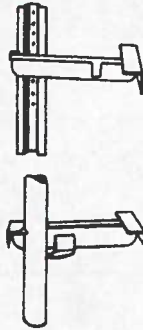
See Separate Literature

SIGN POST ACCESSORIES



H25-4A
DETACHABLE
POST PULLER ONLY
(any shape post)
Must be used with Jack.

H25-7
POST PULLER JACK
ONLY
Includes Base & Handle.



H25-6
Self Locking
U-Post Step

H25-6A
Self Locking
2" Pipe Step



H25-8
POST DRIVER
For Driving U Channel
Sign Posts.
38 lb.



H26-SP
1 1/2" x 48 PIPE ONLY
Painted Black

Use H5 Spacer and H6-2.5
Bolts for mounting signs to
above.



H26-20B
20 lb. Base Only

H26-30B
30 lb. Base Only

H26-40B
40 lb. Base Only

5/16" flat steel plate
base. Painted black.



ULTI-MATE STOP

TO BE USED FOR
TEMPORARY TRAFFIC
CONTROL SITUATIONS.

See separate literature for
complete information.



H21-SPDC
MANUAL DRIVE CAP
For U-Channel.

H21-SPPDC
POWER DRIVE CAP
& 7/8" SHANK
For U-Channel.



UM-MDC175
MANUAL DRIVE CAP
For 1 3/4" anchor posts.

UM-MDC200
MANUAL DRIVE CAP
For 2" anchor posts.

UM-MDC225
MANUAL DRIVE CAP
For 2 1/4" anchor posts.

UM-MDC250
MANUAL DRIVE CAP
For 2 1/2" anchor posts.

UM-PDCS7/8-325
POWER DRIVE SHANK
7/8" x 3 1/4"

UM-PDCS7/8-425
POWER DRIVE SHANK
7/8" x 4 1/4"

UM-PDCS1-425
POWER DRIVE SHANK
1" x 4 1/4"

UM-PDCS1 1/8-6
POWER DRIVE SHANK
1 1/8" x 6"

UM-PDCS1 1/4-6
POWER DRIVE SHANK
1 1/4" x 6"



UM-PDC175
POWER DRIVE CAP
For 1 3/4" anchor posts.

UM-PDC200
POWER DRIVE CAP
For 2" anchor posts.

UM-PDC225
POWER DRIVE CAP
For 2 1/4" anchor posts.

UM-PDC250
POWER DRIVE CAP
For 2 1/2" anchor posts.



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SIGN
HARDWARE**

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