

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 QUANDT ROAD PATHWAY PROJECT

Project No. 014-9704

**Bid Opening Date
Thursday, June 18, 2015, 2:30 p.m.**

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, June 18, 2015, at which time they will be publicly opened and read, for construction of **City of Lafayette, 2015 Quandt Road Pathway Project, Project No. 014-9704**, including, but not limited to: mobilization; traffic control and construction signage; potholing utilities; tree protection and removal; removal and disposal of traffic striping, markers and markings, asphalt concrete pavement, subgrade, native materials, concrete curb, gutter, flatwork, minor structures; construction of concrete curb ramp, curb, gutter, driveways, pathway; asphalt concrete pathway, conform paving, and dikes; storm drain facilities, traffic stripes, markers, and markings; vehicle detection loops; pedestrian signal button and post; adjustment of utility boxes and covers; installation of survey monuments; and all other miscellaneous work as shown on the Plans and as described in the Specifications to provide a complete project.

The Engineer's cost estimate is **\$130,000**.

Contract documents, including the Plans and Specifications, may be obtained through the City of Lafayette Engineering Services Division by contacting the Engineering Assistant at tkain@lovelafayette.org or (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: Quandt Road Pathway Project, Project No. 014-9704**".

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 30 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 **Quandt Road Pathway Project** is accessible under *Projects Bidding*). Or you may contact the Engineering Assistant at (925) 284-1951.

Date: 5/13/15


CITY OF LAFAYETTE

By: _____
Tony Coe, City Engineer

TABLE OF CONTENTS

	<u>Page No.</u>
NOTICE TO CONTRACTORS	N-1
BID PROPOSAL.....	P-1
BID SCHEDULE.....	P-2
NONCOLLUSION DECLARATION.....	P-6
PROPOSAL GUARANTEE "BID BOND" WITH NOTORIZED SHEETS.....	P-7
PROPOSAL SIGNATURE SHEET	P-8
PUBLIC WORKS CONTRACTOR REGISTRATION CERTIFICATION	P-9
CONTRACT AGREEMENT FOR CONSTRUCTION.....	C-1
PAYMENT BOND	C-5
PERFORMANCE BOND	C-6
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 – NOT USED.....	S-6
SECTION SP-8 – PROGRESS OF WORK.....	S-6
SECTION SP-9 – NOT USED.....	S-7
SECTION SP-10– NOT USED	S-7
SECTION SP-11– NOT USED	S-7
SECTION SP-12– MOBILIZATION	S-7
SECTION SP-13– CONSTRUCTION AREA SIGNS.....	S-8
SECTION SP-14– TRAFFIC CONTROL, TEMPORARY PAVEMENT DELINEATION	S-8
SECTION SP-15– NOT USED	S-10
SECTION SP-16– CLEARING AND GRUBBING, TREE TRIMMING, REMOVAL AND PROTECTION .	S-10
SECTION SP-17– EXISTING HIGHWAY FACILITIES.....	S-10
SECTION SP-18– NOT USED	S-15

SECTION SP-19– AGGREGATE BASE S-15

SECTION SP-20– EXCAVATIONS S-16

SECTION SP-21– NOT USED S-16

SECTION SP-22– ASPHALT CONCRETE S-16

SECTION SP-23– CONCRETE CONSTRUCTION..... S-17

SECTION SP-24– STORM DRAINS S-20

SECTION SP-25– PAVEMENT STRIPING, MARKERS AND DELINEATION S-20

SECTION SP-26– NOT USED S-21

SECTION SP-27– MISCELLANEOUS CONSTRUCTION..... S-21

SECTION SP-28– TRAFFIC SIGN S-22

SECTION SP-29– PEDESTRIAN PUSHBUTTON AND ELECTRICAL SYSTEMS S-23

APPENDIX A: WASTE MANAGEMENT PLAN INSTRUCTIONS

APPENDIX B: STANDARD PLANS

**CITY OF LAFAYETTE
CALIFORNIA**

BID PROPOSAL

QUANDT ROAD PATHWAY PROJECT

PROJECT No. 014-9704

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>
-----------------	-------------------------	---------------------------	-------------	-------------------	--------------

(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.

o o o

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

BID SCHEDULE

BASE BID

ITEM NO.	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
1	Mobilization (SP-12)	1	LS		
2	Project Identification Signs (City Furnished) (SP-12)	2	EA		
3	Construction Area Signs (SP-13)	4	EA		
4	Traffic Control (SP-14)	1	LS		
5	Clearing and Grubbing, Tree Trimming and Tree Protection (SP-16)	1	LS		
6	Tree Removal (SP-16)	2	EA		
7	Remove Asphalt Pavement (SP-17)	2816	SF		
8	Remove Concrete Curb and Gutter (SP-17)	443	LF		
9	Remove Concrete Valley Gutter or Driveway (SP-17)	373	SF		
10	Remove and Salvage Decorative Pavers (SP-17)	132	SF		
11	Remove Stone Mailbox and Install New Mailbox on Wood Post (SP-17)	1	LF		
12	Relocate Mailbox on New Post (SP-17)	1	EA		
13	Remove Type 'A' Drainage Inlet (SP-17)	1	EA		
14	Adjust Existing Manhole Frame and Cover to Grade (SP-17)	1	EA		
15	Adjust Utility Box to Grade (SP-17)	3	LF		
16	Concrete Curb and Gutter (S1-6) (SP-23)	568	LF		
17	Concrete Valley Gutter (SP-23)	97	LF		
18	Concrete Sidewalk (SP-23)	1616	SF		
19	Concrete Driveway and Driveway Ramp (SP-23)	604	SF		
20	Concrete Curb Ramp with Detectable Panel (SP-23)	288	SF		
21	Remove and Replace Type 'C' Inlet Top (SP-23)	1	EA		
22	Type 'A' Inlet (SP-23)	1	EA		
23	Type I Manhole (SP-23)	1	EA		
24	18" HDPE Pipe (SP-24)	4	LF		
25	Reset Brick Paver Surfacing (SP-27)	26	SF		
26	Asphalt Concrete Roadway Conform Paving (SP-22)	1904	SF		
27	Asphalt Driveway on New Base Material (SP-22)	142	SF		
28	Asphalt Driveway or Pathway on Existing Base Material (SP-22)	434	SF		
29	Temporary Pavement Delineation (SP-14)	1	LS		
30	Remove Existing Striping, Markers, and Markings (SP-17)	1	LS		
31	Detail 23--Double Yellow Centerline (SP-25)	427	LF		
32	Detail 27B -- 4" White Thermoplastic Edge Stripe (SP-25)	378	LF		
33	Detail 39A - Modified Edge Stripe (SP-25)	147	LF		
34	12-Inch Thermoplastic Stripe (SP-25)	119	LF		

BASE BID

ITEM NO.	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
35	Thermoplastic Pavement Legends and Markings (SP-25)	79	SF		
36	Shoulder Backing (SP-27)	1	LS		
37	Install Pedestrian Pushbutton on New Post (SP-29)	1	LS		
38	Vehicle Detection Loops (SP-29)	4	EA		
39	Relocate Traffic Sign on New Post (SP-28)	1	EA		
	TOTAL BASE 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.

o o o

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>DIR NUMBER</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.			

NONCOLLUSION DECLARATION

The undersigned declares:

I am the _____ of _____, the party making the foregoing bid.
Title Firm

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

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on _____, at
Date

_____, _____
City State

By: _____
Signature

Name: _____
Printed or Typed

Date: _____

Title: _____

PROPOSAL GUARANTEE

BID BOND

QUANDT ROAD PATHWAY PROJECT

PROJECT NO. 014-9704

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 _____, 2015.

BIDDER _____

SURETY _____

Subscribed and sworn to this ____ day of _____, 2015.

NOTARY PUBLIC _____

PROPOSAL SIGNATURE SHEET

The completed proposal submitted herewith includes all sheets numbered "P-1 through P-9" at the bottom. The following required attachments have been executed and are included:

- a. Bid Proposal (with Addenda acknowledgement)
- b. Bid Schedule
- c. Noncollusion Declaration
- d. Proposal Guarantee "Bid Bond" with Notarized Signatures
- e. Proposal Signature Sheet
- f. Public Works Contractor Registration Certification

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:

PUBLIC WORKS CONTRACTOR REGISTRATION CERTIFICATION

Pursuant to Labor Code sections 1725.5 and 1771.1, all contractors and subcontractors that wish to bid on, be listed in a bid proposal, or enter into a contract to perform public work must be registered with the Department of Industrial Relations. See <http://www.dir.ca.gov/PublicWorks/PublicWorks.html> for additional information.

No bid will be accepted nor any contract entered into without proof of the contractor's and subcontractors' current registration with the Department of Industrial Relations to perform public work.

Contractor hereby certifies that it is aware of the registration requirements set forth in Labor Code sections 1725.5 and 1771.1 and is currently registered as a contractor with the Department of Industrial Relations.

Name of Contractor: _____

DIR Registration Number: _____

Contractor further acknowledges:

1. Contractor shall maintain a current DIR registration for the duration of the project.
2. Contractor shall include the requirements of Labor Code sections 1725.5 and 1771.1 in its contract with subcontractors and ensure that all subcontractors are registered at the time of bid opening and maintain registration status for the duration of the project.
3. Failure to submit this form or comply with any of the above requirements may result in a finding that the bid is non-responsive.

Signature: _____

Name and Title: _____

Dated: _____

CITY OF LAFAYETTE
CONTRACT AGREEMENT
FOR
CONSTRUCTION

THIS AGREEMENT is made and entered into as of _____, 2015, 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, Quandt Road Pathway Project, Project No. 014-9704**, ("Project") including, but not limited to: mobilization; traffic control and construction signage; potholing utilities; tree protection and removal; removal and disposal of traffic striping, markers and markings, asphalt concrete pavement, subgrade, native materials, concrete curb, gutter, flatwork, minor structures; construction of concrete curb ramp, curb, gutter, driveways, pathway; asphalt concrete pathway, conform paving, and dikes; storm drain facilities, traffic stripes, markers, and markings; vehicle detection loops; pedestrian signal button and post; adjustment of utility boxes and covers; installation of survey monuments; and all other miscellaneous 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.

Contract Agreement

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 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 in 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. Contractor and Subcontractor Registration. Effective March 1, 2015, pursuant to Labor Code sections 1725.5 and 1771.1, all contractors and subcontractors that wish to bid on, be listed in a bid proposal, or enter into a contract to perform public works must be registered with the Department of Industrial Relations. No bid will be accepted nor any contract entered into without proof of the contractor's and subcontractors' current registration with the Department of Industrial Relations to perform public work. Contractor is directed to review, fill out and execute the Public Works Contractor Registration Certification contained in the Bid Proposal prior to contract execution.
11. Labor Compliance. This Project is subject to compliance monitoring and enforcement by the Department of Industrial Relations. It shall be the Contractor's sole responsibility to evaluate and pay the cost of complying with all labor compliance requirements under this Contract and applicable law.
12. 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

Contract Agreement

CONTRACTOR: _____

- 13. 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.
- 14. 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 shall not be valid or binding. Any modification of this contract will be effective only if signed by the party to be charged.
- 15. 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 _____ 2015.

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 _____ 2015.

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: Construction of **City of Lafayette, Quandt Road Pathway Project, Project No. 014-9704**, ("Project")including, but not limited to: mobilization; traffic control and construction signage; potholing utilities; tree protection and removal; removal and disposal of traffic striping, markers and markings, asphalt concrete pavement, subgrade, native materials, concrete curb, gutter, flatwork, minor structures; construction of concrete curb ramp, curb, gutter, driveways, pathway; asphalt concrete pathway, conform paving, and dikes; storm drain facilities, traffic stripes, markers, and markings; vehicle detection loops; pedestrian signal button and post; adjustment of utility boxes and covers; installation of survey monuments; and all other miscellaneous 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 _____, 2015.

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: Construction of **City of Lafayette, Quandt Road Pathway Project, Project No. 014-9704**, ("Project") including, but not limited to: mobilization; traffic control and construction signage; potholing utilities; tree protection and removal; removal and disposal of traffic striping, markers and markings, asphalt concrete pavement, subgrade, native materials, concrete curb, gutter, flatwork, minor structures; construction of concrete curb ramp, curb, gutter, driveways, pathway; asphalt concrete pathway, conform paving, and dikes; storm drain facilities, traffic stripes, markers, and markings; vehicle detection loops; pedestrian signal button and post; adjustment of utility boxes and covers; installation of survey monuments; and all other miscellaneous 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 _____, 2015.

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

SPECIAL PROVISIONS SECTION SP-1

GENERAL
(NO BID ITEM)

SP1-01 REFERENCES

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; tree protection and removal; removal and disposal of traffic striping, markers and markings, asphalt concrete pavement, subgrade, native materials, concrete curb, gutter, flatwork, minor structures; construction of concrete curb ramp, curb, gutter, driveways, pathway; asphalt concrete pathway, conform paving, and dikes; storm drain facilities, traffic stripes, markers, and markings; vehicle detection loops; pedestrian signal button and pole; adjustment of utility boxes and covers; installation of survey monuments; and all other miscellaneous 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 pathway, 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 pathway alignment and grade will be set on one side of the pathway 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 pathway 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 (Material Source)
- Asphalt Concrete Mix Designs of All Types
- Portland Cement Concrete Mix Designs of All Types
- Reinforcing Steel
- Storm Drain Inlet and Manhole Frames, Grates and Covers
- Vehicle Detector Loop Materials
- Pedestrian Push Button and Pole
- HDPE Pipe
- Pavement Markers
- Thermoplastic Striping Material
- Sign and Post Materials
- 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 every item of Contract Work is shown. Contractor shall accordingly coordinate miscellaneous and coincidental work related to or associated with major work items in order to avoid out-of-sequence construction and conflicts. 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 existing improvements in conflict with new improvements
- 10) Remove, repair, modify, and/or construct storm drain facilities.
- 11) Construct concrete curb and gutter
- 12) Adjust utility boxes to grade
- 13) Install relocated signs and mailboxes
- 14) Install new pedestrian push button and pole
- 15) Construct concrete pathway, handicap ramps and driveways
- 16) Grind and pave roadway conforms
- 17) Install asphalt pathway and driveway conform paving
- 18) Install decorative brick pavers
- 19) Remove existing pavement markers, markings and striping
- 20) Install vehicle detection loops
- 21) Install traffic stripes, markers and markings
- 22) Install shoulder backing
- 23) Complete all other construction work and punch list items.

- 24) Remove tree protection, construction area signs and project identification signs.
- 25) Submit completed waste assessment summary report form.
- 26) 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 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 (NOT USED)

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 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;

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.

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 SP-14 of these Special Provisions.

SP8-04 TIME OF COMPLETION AND LIQUIDATED DAMAGES

The Contractor shall complete the entire Work in this Contract within **thirty five (35)** 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.

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 NO. 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 but not more than seven (7) prior to the start of work. Signs shall be removed within five (5) days of completing all work. 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. 29)

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 LANE CLOSURE AND HOURS

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

Lane closures shall only be permitted between 8:30 a.m. and 4:30 p.m.

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 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 (NOT USED)

SPECIAL PROVISIONS SECTION SP-16

CLEARING AND GRUBBING, TREE TRIMMING, REMOVAL

AND PROTECTION

(BID ITEM NO. 5, 6)

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" and per each for "Tree Removal" shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals, and for doing all the work involved in implementing tree protection measures, clearing and grubbing, tree trimming and removal, 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. 7 THROUGH 15 and 30)

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, paver, or asphalt concrete driveway, pathway, sidewalk, shoulder, and other flatwork; concrete curb and gutter; concrete valley gutter; structures; and mailbox pillars. See Section SP-22, "Asphalt Pavement" for cold plane pavement removal associated with roadway conforms. All other removals as shown on the drawings and as directed by the Engineer to accommodate new construction as intended by Contract, for which no specific Bid Item is shown, shall be considered as incidental work.

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. Sawcutting of gutter lips shall be to a neat, straight line in alignment with the projected gutter lip line of adjacent sections. Removal of obstructions in gutters shall be done with care so as to avoid damaging the underlying gutter to remain.

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.

Otherwise, removal shall extend to a depth at least six inches below the surface of the final condition required by Contract.

Where existing facilities such as pavers and miscellaneous property frontage improvements are required to be removed temporarily to provide clearance for construction, upon completion of said construction they shall be reset to their original location and alignment, in a condition equal to or better than that pre-existing.

The Engineer may direct Contractor to salvage components of private improvements designated to be removed. In such cases, Contractor shall take care to remove the components in a manner to reasonably minimize damage and stockpile them neatly in a location designated by the Engineer.

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.

Architectural pillars containing mailboxes shall be removed to a point six inches below the grading plane of any new construction shown to occur at that location. The exact location of the replacement mailbox on wood post shall be designated by the Engineer or mail carrier. The new installation shall be in accordance with Contra Costa County Detail CA90i, "Mailbox Details". 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 RAISING MANHOLE COVERS

The adjustment of storm drain and sanitary sewer manhole covers to grade shall be in conformance with Section 22-9 of the Technical Provisions of the Standard Specifications.

Manholes located within new paving or sidewalk 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 or prior to pouring concrete flatwork. 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 UTILITY BOX ADJUSTMENTS

Where utility boxes are encountered within the limits of the planned work, Contractor shall adjust utility boxes to the new finished grade.

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.

SP17-07 REMOVE EXISTING STRIPING, MARKERS AND MARKINGS

Existing traffic striping, markers and markings in conflict with new design shall be removed just prior to the installation of new striping, markers and markings.

Pavement markers, stripes, or legends which are removed shall be replaced with either final or temporary markers, stripes, and legends prior to opening the roadway to vehicular or pedestrian

traffic. Pavement delineation removal shall conform to the provisions of Section 15-4, "Removal of Existing and Temporary Stripes and Pavement Markings," of the Technical Provisions of the Standard Specifications. Removal by sandblasting shall not be allowed. Attention also is directed to Section SP-14, "Temporary Pavement Delineation." Of these Special Provisions.

SP17-08 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, including minor removal work and the resetting of temporary removals, for which no specific payment is allowed in Contract, shall be considered to be incidental work included in prices paid for various other contract items of work, and no additional compensation will be allowed therefor.

The contract unit prices paid per each for "**Adjust Existing Manhole 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, 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 lump-sum Contract Price paid for "**Remove Existing Striping, Markers, and Markings**" shall be considered as full compensation for furnishing all labor, materials, tools, equipment and incidentals necessary to remove and dispose of pavement markers, stripes and legends, as specified in the Standard Specifications, the State Specifications and these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefore.

The Contract Price paid per each for "**Relocate Mailbox on New Post,**" "**Remove Stone Mailbox and Install New Mailbox on Wood Post**" and shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals necessary to perform the demolition, removal, disposal or salvaging as directed, remove and reset mailboxes, including, but not limited to-

all excavation and backfill, temporary installations, new mailbox, mailbox 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 Asphalt Pavement”**, **“Remove Concrete Valley Gutter or Driveway”**, and **“Remove and Salvage Decorative Pavers”** 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 each for **“Remove Type ‘A’ Drainage Inlet”** shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals necessary to excavate, sawcut, remove, and dispose of the existing facilities, including shoring and backfill where required, and all other work as noted on the plans, as specified by these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

SPECIAL PROVISIONS SECTION SP-18 (NOT USED)

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.

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

(NO BID ITEM)

SP20-01 GENERAL

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

SP20-02 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, storm drains, 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.

SPECIAL PROVISIONS SECTION SP-21 (NOT USED)

SPECIAL PROVISIONS SECTION SP-22

ASPHALT CONCRETE

(BID ITEM NO. 26 THROUGH 28)

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. Cold Planing of asphalt surfacing associated with roadway conform paving shall conform to Section 13, "Cold Planing", of said Technical Provisions.

SP22-01 DRIVEWAYS, PATHWAY AND ROADWAY CONFORM PAVING

Asphalt driveway, pathway, and roadway conform limits are approximate. The Engineer will delineate actual conform lines prior to the start of work. Substrate conditions for conform paving differ 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, Class II Aggregate Base conforming to SP-19 may be used to prepare the subgrade such that the finish asphalt concrete paving meets the three (3) inch minimum.

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.

SP22-02 MEASUREMENT AND PAYMENT

The contract unit price paid per square foot "Asphalt Concrete Roadway Conform Paving" 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- cold planning existing surfacing; cleaning existing pavement; 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 "Asphalt Driveway or Pathway on Existing Base Material" and "Asphalt Driveway New Base Material" 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.

SPECIAL PROVISIONS SECTION SP-23

CONCRETE CONSTRUCTION (BID ITEM NO. 16 THROUGH 23)

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.

SP23-01 GENERAL

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.

When applicable 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.

SP23-02 CONCRETE REQUIREMENTS

Concrete used for all items on this project shall be Class 564-C-3250 with minimum 28-day compressive strength of 3,250 pounds per square inch. The maximum slump shall be four (4) inches.

SP23-03 MINOR CONCRETE CONSTRUCTION

Curb and gutter shall be as indicated on the plans 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.

SP23-04 PATH OF TRAVEL TACTILE SURFACES

The color of detectable tactile warning panels shall be onyx black (Federal Color No. 17038) and guide strips shall be brick red (Federal Color No 22144). 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).

SP23-05 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.

SP23-06 MEASUREMENT AND PAYMENT

The Contract Price paid per linear foot for "Concrete Curb and Gutter (S1-6)" per square foot for "Concrete Driveway and Driveway Ramp", "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; placing, grading and compacting base rock; forming, placing, and finishing concrete; backfill; doweled connections; setting tactile surfaces in accordance with manufacturer's instructions, 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.

The Contract Price paid per each for the retrofit and installation of various drainage structures (inlets and manholes) 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;

removals where needed; excavation and preparing subbase; dewatering; loading, hauling, and disposal of spoils; forming, placing, and finishing concrete; installing frames and grates; backfill; doweled connections; 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 ramp area up to the outer most groove line defining the ramp, up to and including the adjacent retaining curb where it exists, and inclusive of the detectable panel. The retaining curb associated with a curb ramp shall not be paid separately as a curb item.

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

SPECIAL PROVISIONS SECTION SP-24

STORM DRAINS (BID ITEM NO. 24)

The provisions of Section 18, “Storm Drains”, of the Technical Provisions of the Standard Specifications shall apply in their entirety except as modified or supplemented herein.

SP24-01 MEASUREMENT AND PAYMENT

The Contract Prices paid per linear foot for “18” HDPE Pipe” shall be considered as full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals necessary to perform all work, including but not limited to- potholing; sawcutting; excavation; sheeting and shoring; installing pipe; bedding and backfill; compaction; temporary asphalt concrete paving; coordination with, protecting, and supporting existing utilities; 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-25

PAVEMENT STRIPING, MARKERS AND DELINEATION (BID ITEM NO. 31 THROUGH 35)

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.

SP25-01 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.

SP25-02 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 stripes and striping details**, per square foot for **"Thermoplastic Pavement Legends & Markings,"** 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-26 (NOT USED)

SPECIAL PROVISIONS SECTION SP-27

MISCELLANEOUS CONSTRUCTION

(BID ITEM NO. 25 and 36)

SP27-01 GENERAL

Miscellaneous work covered under this section includes:

- Shoulder backing
- Reset brick paver surfaces

SP27-02 SHOULDER BACKING

Contractor shall place shoulder backing along the edge of the new pathway and driveway conforms. 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 consists of clean native material, select fill, aggregate base, or

pulverized material to best match the existing surrounding condition. Select fill 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 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.

SP27-03 RESET BRICK PAVERS

Contractor shall salvage with care all brick pavers to be reused and reset. Damaged and broken pavers shall be replaced in kind to equal the pre-existing appearance, function, and quality. Pavers shall be installed over sand and aggregate base subbase as shown on the Contract Plans. Layout and finish of the pavers shall match the existing surrounding condition.

SP27-04 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 square foot for “Reset Brick Paver Surfacing” shall include full compensation for furnishing all labor, tools, equipment, and incidentals to perform all work to salvage, store, protect, and reset brick pavers, including replacement of damaged units, 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-28

TRAFFIC SIGN **(BID ITEM NO. 39)**

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.

SP28-01 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.

SP28-02 MEASUREMENT AND PAYMENT

The Contract Price paid per each for "Relocate Traffic Sign on New Post" 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 where designated, disposal of said existing posts and foundations, backfilling excavations, installing signs on new posts complete in place, including mounting hardware and new sign panels where required, 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.

SPECIAL PROVISIONS SECTION SP-29

PEDESTRIAN PUSHBUTTON AND ELECTRICAL SYSTEMS

(BID ITEM NO. 37 and 38)

SP27-01 GENERAL

The work shall consist of:

1. Removing the existing pedestrian pushbutton from the signal pole at Pleasant Hill Road and Quandt Road,
2. Installing pedestrian pushbutton on new PPB post, conduit and conductors at the intersection of Pleasant Hill Road and Quandt Road,
3. Installing new in pavement vehicle detection loops at the intersection of Pleasant Hill Road and Quandt Road.

All work shall conform to the provisions in Section 86, "Signals, Lighting and Electrical Systems" of the State Standard Specifications and these Special Provisions.

SP27-02 SUBMITTALS

Contractor shall provide technical submittals, including supporting catalogue cuts, manufacturer's literature, sketches or drawings, calculations, and other pertinent data, for all electrical equipment including, but not limited to pedestrian pushbutton poles, pedestrian push buttons. The submittals shall include sufficient detail to enable the City to review the information and determine that the contractor clearly understands the requirements of the contract documents.

A. Proposed Products List & Purchase Order

Within five (5) days after the date of the Notice of Award of the Contract, the Contractor shall submit a complete list of electrical materials to be incorporated into the project stating the Special Provision section, the vendor's name, the manufacturer's name if different from the vendor's, trade name, and model number or code for each product.

Within five (5) calendar days after the date of the Notice to Proceed, the Contractor shall provide to the Engineer a copy of all purchase orders for equipment and materials used in reference to pedestrian pushbutton pole. The Contractor shall also provide copies of all correspondence with equipment and materials suppliers concerning availability, delivery dates, anticipated delays (if any), and shipment notices within five (5) days of each letter, references to cost may be omitted. Consideration for recommending time extensions for materials and equipment delivery delays will not be made unless the above provisions are met.

The Contractor shall make all corrections to the submittals that are required by the City at no cost to the City and the Contractor shall resubmit the required number of corrected copies. The Contractor shall indicate in writing on each resubmittal any revisions other than or in addition to the corrections required in the previous submittals.

Submittals, in any part, in any form or in any stage of review or approval shall not constitute Contract Documents or parts thereof. All product submittals shall be provided to the City, minimum 7 calendar days prior to equipment and material orders.

SP27-03 MAINTAINING EXISTING ELECTRICAL SYSTEMS

Maintaining existing electrical systems shall conform to the provisions of Section 86-1.05, "Maintaining Existing and Temporary Electrical Systems", of the State Standard Specifications. Existing traffic signal systems shall be kept in effective operation for the benefit of the traveling public during the progress of the work, except when shutdown is permitted. No traffic signal shutdowns shall be allowed unless prior approval is obtained from the Engineer. Shut downs will only be allowed on Tuesday, Wednesday, or Thursday.

Full compensation for performing the work in these specifications shall be included in the prices paid for the pedestrian pushbutton, post and vehicle detector loops and no additional compensation will be allowed therefor.

SP27-04 LOCATING ITEMS OF WORK

The Contractor shall be responsible for locating and marking the positions of the pedestrian pushbutton pole. The Engineer may assist the Contractor in locating the above items. All locations shall be approved by the Engineer before any work is performed.

Full compensation for locating and marking the position of the pedestrian pushbutton pole, shall be considered as included in the contract price paid for the pedestrian pushbutton on new post no additional compensation will be allowed therefor.

SP27-05 FOUNDATIONS

The provisions of Section 17, "Concrete Construction," of the Technical Specifications of the Standard Specifications shall apply in their entirety except as modified or supplemented herein.

Foundations shall conform to the provisions in Section 86-2.03, "Foundations", of the State Standard Specifications, the Plans and these Special Provisions.

Exposed foundation anchor bolts shall be properly protected with either barricades or traffic cones until the standards are erected.

SP27-06 STEEL POSTS

All pedestrian pushbutton posts shall have a minimum of 2" and a maximum of 3" of grout installed between the bottom of the base plate and the finish grade.

See painting section for pole finish.

The contractor shall not order any poles until cutsheets have been submitted to and approved by the City.

SP27-07 CONDUIT

Conduit that is installed underground shall be rigid, nonmetallic type, Schedule 40. All conduits shall have a ¼" pull rope installed in them. All conduit joints shall be glued.

After conductors have been installed, the ends of conduit terminating in pull boxes and controller cabinets shall be sealed with a UL approved plug or duct seal.

When a standard coupling cannot be used for coupling metal type conduit, a UL listed threaded union coupling, as specified in the third paragraph in Section 86-2.05C, "Installation", of the State Standard Specifications, or a concrete tight split coupling or concrete tight set screw coupling shall be used.

Conduit runs are shown diagrammatically on the Plans. Conduits to be installed in areas of new curb, gutter and/or sidewalk shall be placed below and prior to construction of the new improvements.

SP27-08 CONDUCTORS AND WIRING

New conductors shall be as shown on the Plans and as described in the contract documents.

Identification bands shall be constructed from a nylon cable tie with a .35" by .75" label flag attached. The marking pen shall be one recommended by the manufacturer of the cable tie or it shall be an indelible marking pen compatible with writing on the nylon material. No other method of labeling will be acceptable.

The Contractor shall provide to the Engineer a Certificate of compliance from the Manufacturer in accordance with the provisions of Section 6-1.07, "Certificates of Compliance", of the State Standard Specifications for all the conductors and cables furnished for the project.

Conductors shall not be pulled into conduits until the pull boxes have been set to grade, rock sumps have been installed, and conduits have been bonded and grounded. All pull boxes shall be inspected and approved prior to pulling any conductors. Conductors shall not be pulled into conduits unless the Engineer is present to observe the operation. The ends of all unused cables shall be sealed.

SP27-09 LOOPS

Loop detectors shall be suitable for high temperature installation. The loop detectors shall withstand hot tar being poured directly over the loop (4500 F).

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 features, 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 operations 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 handhole or termination pullbox, 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.

SP27-10 TESTING

Any damage to new equipment installed as part of a modified facility prior to or during the "five-day functional test" shall be repaired by the Contractor at the Contractor's expense. The "five-day functional test" will begin on the day the lighting is completed or the day the in-roadway lighted crosswalk is put into operation. The Contractor is responsible for the maintenance of all installed or relocated facilities until the Final Acceptance by the City Council.

All costs involved in complying with this section shall be considered included in the contract prices paid for various signal items of work, and no additional compensation will be allowed therefor.

SP27-11 PAINTING

Pushbutton posts and hardware shall be factory painted "Black". Painting of standards and signal equipment shall conform to the following:

General

Paint system is divided into two (2) parts:

- The paint that is applied at the factory or point of fabrication and;
- The touchup paint that is required at the installation site in Lafayette, California.

The final finish of the poles, in place, shall be free of all scratches, gouges and defects of any kind.

Factory/Fabrication Site

Surface Preparation:

All scale, rust and other contaminants shall be removed and all surfaces cleaned to Steel Structures Painting Council (SSPC) SP-6 commercial blast cleaning specifications. Prior to prime and top coat application, all surfaces must be clean, dry and free of oil, grease, finger prints, and other contaminants. The application, curing temperature and metal temperature must be above 60 degrees Fahrenheit (16 degrees Celsius). The minimum time between the prime coat and top coat applications shall be in accordance with the manufacture's recommendations.

Paint System:

- Prime: Two-part polyamidoamine epoxy, series 69 hi-build epoxoline II by Tnemec Company, or approved equal. Apply by spray to a dry film thickness of 3.0 to 5.0 mils (75 to 125 microns) D.F.T.
- Top Coat: Two-part aliphatic acrylic polyurethane, Endura Shield series 1075 semi-gloss finish by Tnemec Company, or approved equal. Apply by spray to a dry film thickness of 5.0 mils (125 microns) D.F.T.
- Total Film Thickness: 8 to 10 mils (200 to 250 microns).
- Color: Black or other as specified herein.
- Application Method: Airless, air or H.V.L.P. spray, or electrostatic spray.

Field Touch-Up (including relocated service cabinet):

- Surface Preparation: Area to be touched-up shall be scarified with a palm sander, pole sander or scotch brite pad. All rust shall be removed to bright metal. All oil, grease, fingerprints and other contaminants shall be removed with clean solvent and clean rags.

Paint System:

- Prime: Two-part polyamide epoxy. Color: Black (or other as specified herein) Tnemec series 27 F.C. tyoxy, or approved equal. Apply by brush or roller to 3.0 to 4.5 mils (75 to 110 microns) dry film thickness. This may require two or three coats to reach required D.F.T.
- Top Coat: Two-part aliphatic acrylic polyurethane – Endura Shield II series 1075 semi-gloss finish by Tnemec Co. or approved equal. Color: Black (or other as required to match existing top coating). Apply by brush or roller to 3.5 to 5.0 mils (88 to 125 microns) D.F.T. This may require several coats to reach the required D.F.T.
- Total Dry Film Thickness: match factory applied coatings.
- Color: Black or other as specified herein.
- Application Temperature: Shall be 60 degrees Fahrenheit (16 degrees Celsius) or higher. Application temperature is critical for proper adhesion and curing properties. It is best to do

the touch-up mid to late mornings so as to allow the higher afternoon temperatures to help these two-part paints to cure properly.

Substitutions

Other coating systems may be substituted for the products specified herein. A complete submittal package shall be submitted to the City Engineer for review and approval 10 days prior to the coating operation.

SP27-12 PEDESTRIAN PUSH BUTTONS

The second paragraph in Section 86-5.02, "Pedestrian Push Buttons", of the State Standard Specifications is amended to read: The housing shall be metallic. The assembly shall be weatherproof and shall be shockproof in any weather condition.

The pedestrian pushbutton actuator surface shall have a diameter of 2" or greater and meet or exceed all ADA accessibility guidelines for pedestrian pushbuttons.

SP27-13 MEASUREMENT AND PAYMENT

The contract unit price paid per each for "**Install Pedestrian Pushbutton on New Post**", shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all work involved in installing pedestrian pushbutton on new post, as shown on the Plans, as specified in these Special Provisions, the State Standard Plans and Specifications, and as directed by the Engineer, including excavation, off-haul, compaction, furnishing and installing new PPB post and foundation, with PPB buttons, conduit, conductors, painting, connections to existing pull boxes or conduits, and making all of the tests, to provide for a complete and functioning traffic signal, and no additional payment will be allowed therefor.

The contract unit prices paid per each for "**Vehicle Detection Loops**" shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all work involved in installing the new traffic signal detector loops, including relocating detector handhole, miscellaneous conduit and fittings, as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, including but not limited to sawcutting, splicing loop wire to the DLC's, installation, conduits, relocating/replacing detector handholes, and making all required tests.

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

DIST. COUNTY ROUTE POST MILES SHEET TOTAL PROJECT SHEETS

REGISTERED CIVIL ENGINEER

May 20, 2011

PLANS APPROVAL DATE

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

NO. 3-21-13

PROFESSIONAL ENGINEER

INTEGRITY

REGISTERED CIVIL ENGINEER

NO. 3-21-13

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

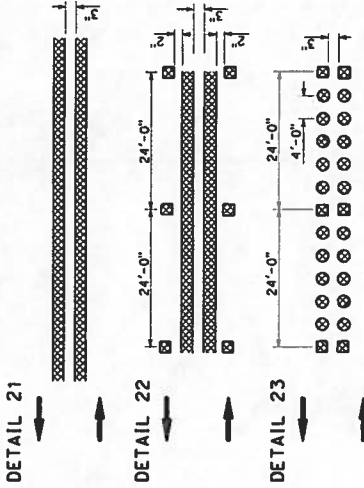
NO. 3-21-13

PROFESSIONAL ENGINEER

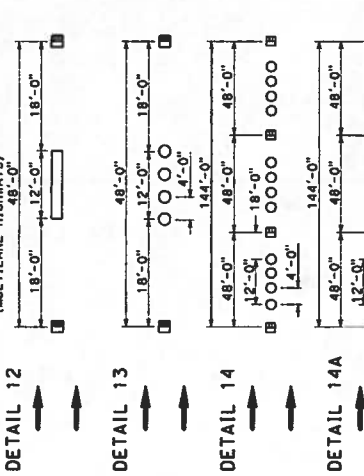
INTEGRITY

REGISTERED CIVIL ENGINEER

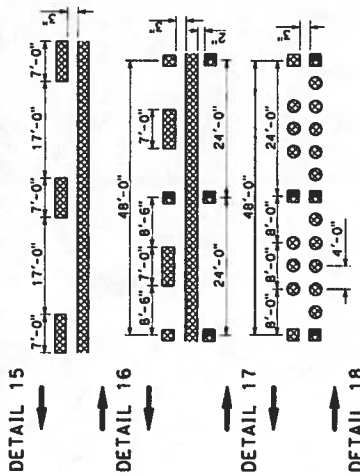
NO PASSING ZONES-TWO DIRECTION



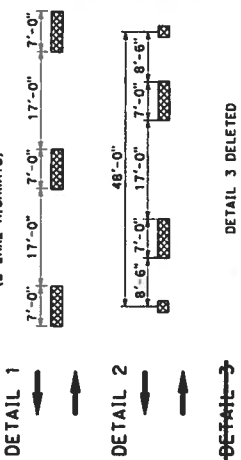
LANELINES (Cont)
(MULTILANE HIGHWAYS)



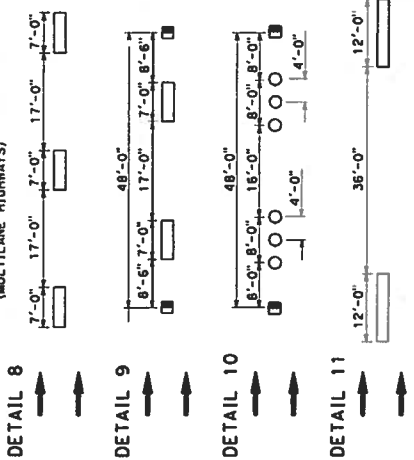
NO PASSING ZONES-ONE DIRECTION



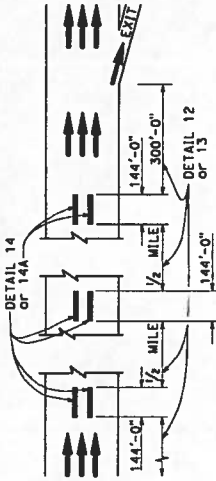
CENTERLINES
(2 LANE HIGHWAYS)



LANELINES
(MULTILANE HIGHWAYS)



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



NOTE:

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

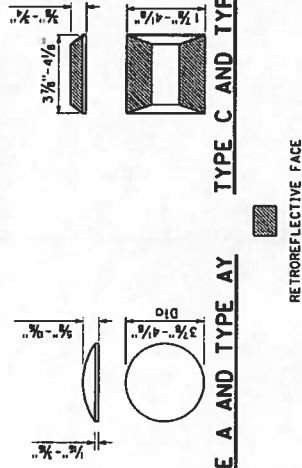
**LEGEND
MARKERS**

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

LINES

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

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
AND TYPICAL DETAILS**

NO SCALE

A20A

DISTRICT COUNTY ROUTE TOTAL PROJECT SHEET NO. SHEETS
 REGISTERED CIVIL ENGINEER
 May 20, 2011
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
 THE AUTHORITY OF THE ENGINEER IS LIMITED TO THE WORK SHOWN ON THESE PLANS.
 THE ENGINEER'S LIABILITY IS LIMITED TO THE WORK SHOWN ON THESE PLANS.
 THE ENGINEER'S LIABILITY IS LIMITED TO THE WORK SHOWN ON THESE PLANS.

LEGEND
MARKERS
 TYPE AY YELLOW NON-REFLECTIVE
 TYPE D TWO-WAY 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

INTERSECTION TREATMENTS
 DETAIL 34
 DETAIL 34A
 DETAIL 35
 DETAIL 35A

TWO-WAY LEFT TURN LANES
 DETAIL 32
 DETAIL 33

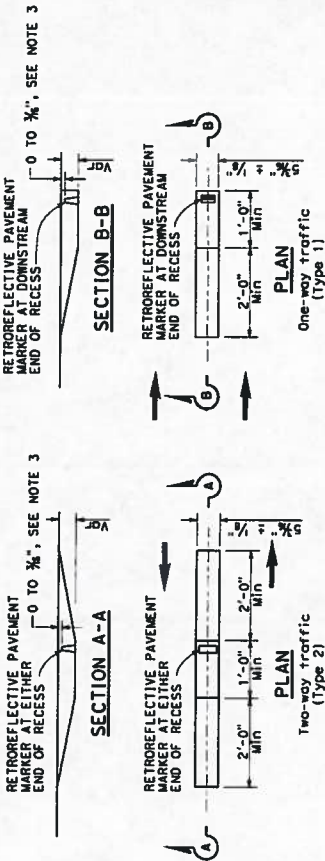
RIGHT EDGELINE EXTENSION THROUGH INTERSECTIONS

MARKER DETAILS
 TYPE AY
 TYPE D
 TYPE H
 RETROREFLECTIVE FACE

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

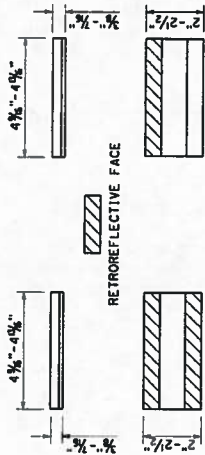
A20B

COUNTY ROUTE DIST. MILES TOTAL PROJECT SHEETS NO. SHEETS
 REGISTERED CIVIL ENGINEER
 MAY 20, 2011
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA ON THE 22nd DAY OF MAY 2011 CERTIFIES THAT THESE PLANS COMPLY WITH THE REQUIREMENTS OF THE PUBLIC SAFETY ACT OF 1975 (CALIFORNIA CIVIL CODE SECTION 499.01) AND THE REQUIREMENTS OF THE PUBLIC SAFETY ACT OF 1975 (CALIFORNIA CIVIL CODE SECTION 499.02) AS AMENDED.
 ROBERTO L. MENDOZA
 CIVIL ENGINEER
 No. 3-31-13
 STATE OF CALIFORNIA



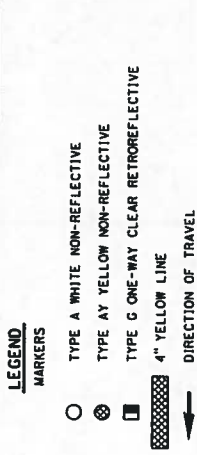
RECESS DETAIL FOR RETROREFLECTIVE PAVEMENT MARKER

- RECESSED MARKER NOTES:**
1. See typical traffic line details for marker patterns to be used with recessed pavement markers. Detail 14A requires a Type 2 recess.
 2. The retroreflective pavement markers shown for recessed installations are not to be used for non-recessed installations.
 3. The top of pavement markers installed in recesses shall be 0 to $\frac{1}{8}$ " below the pavement surface.

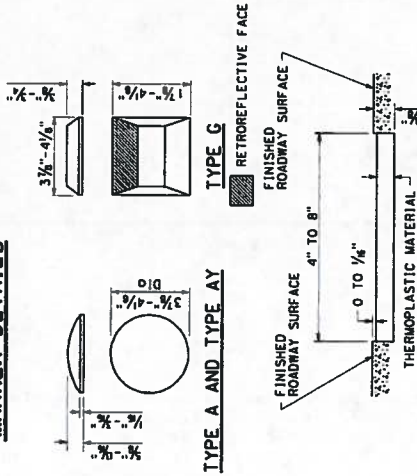


TYPE C AND TYPE D TYPE G AND TYPE H RETROREFLECTIVE PAVEMENT MARKER FOR RECESSED INSTALLATION

See Notes 1 and 2.



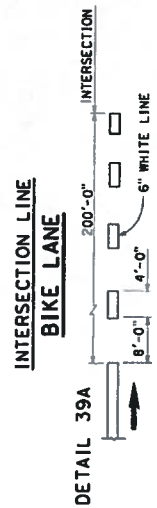
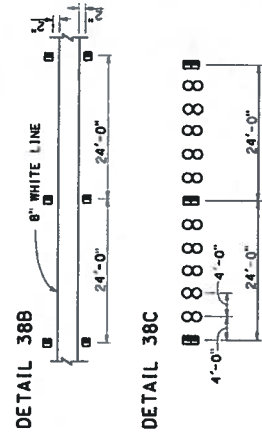
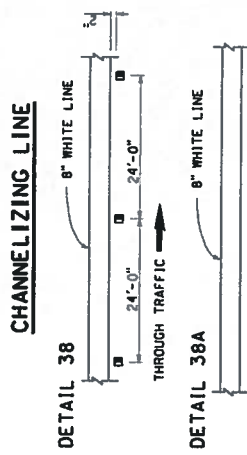
MARKER DETAILS



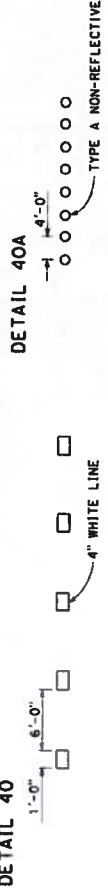
DETAIL FOR RECESSED THERMOPLASTIC TRAFFIC STRIPE

See Notes A and B.

- RECESSED THERMOPLASTIC NOTES**
- See typical traffic line details for pavement marking patterns.
 - The top of the thermoplastic installed in recessed pavement shall be 0 to $\frac{1}{8}$ " below the pavement surface.



LANE LINE EXTENSIONS THROUGH INTERSECTIONS



CENTER LINE EXTENSIONS THROUGH INTERSECTIONS



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

A20D

1005 MILES SHEET NO. 101A
 TO THE PROJECT NO. SHEETS

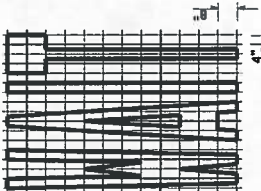
DIST. COUNTY ROUTE

Robert M. McLaughlin
 REGISTERED CIVIL ENGINEER

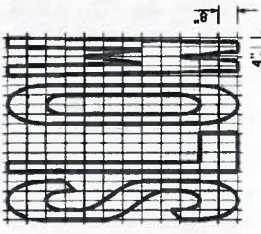
Professional Engineer Seal: Robert M. McLaughlin, No. 45013, State of California, Exp. 12/31/12

PLANS APPROVAL DATE: May 20, 2011

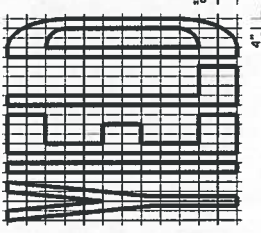
THE STATE OF CALIFORNIA OFFICE OF THE REGISTERED PROFESSIONAL ENGINEERS AND SURVEYORS
 THE ACTING CHIEF OF COUNTY OFFICES OF REGISTERED PROFESSIONAL ENGINEERS AND SURVEYORS
 COUNTY OF THIS PLAN SHEET.



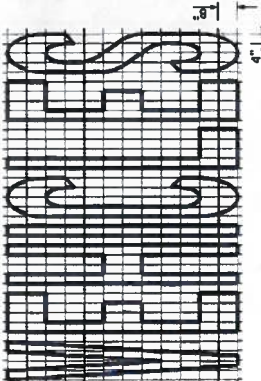
A=19 ft+2



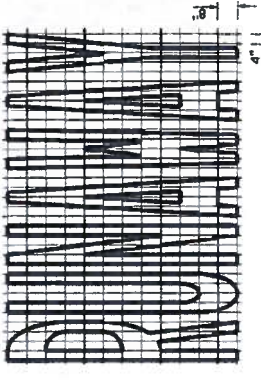
A=23 ft+2



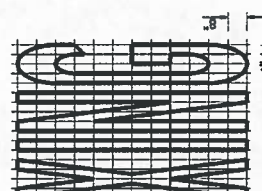
A=24 ft+2



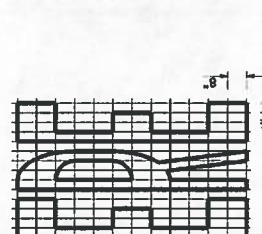
A=42 ft+2



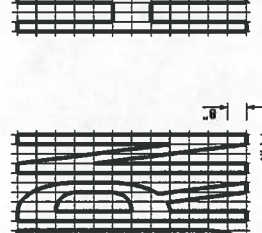
A=43 ft+2



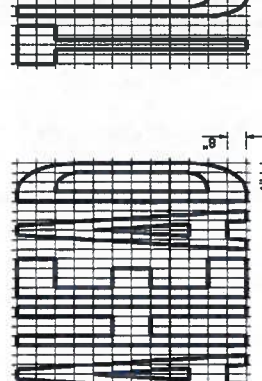
A=21 ft+2



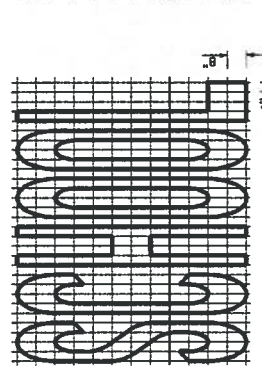
A=26 ft+2



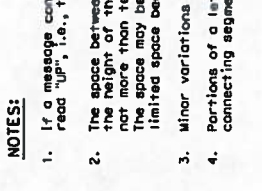
A=24 ft+2



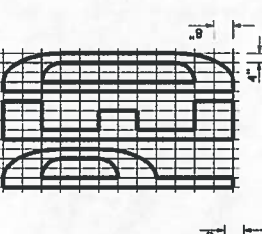
A=31 ft+2



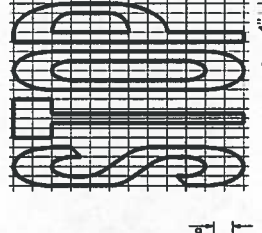
A=35 ft+2



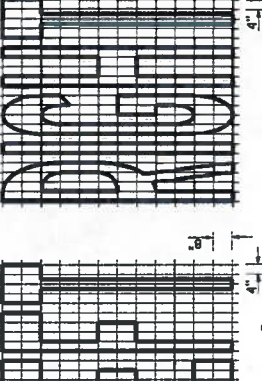
A=18 ft+2



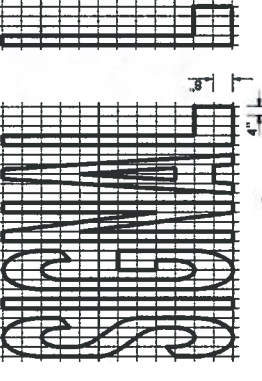
A=22 ft+2



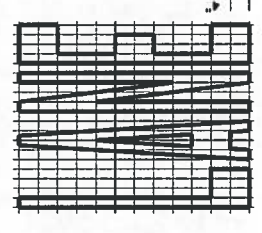
A=26 ft+2



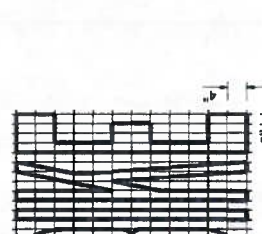
A=19 ft+2



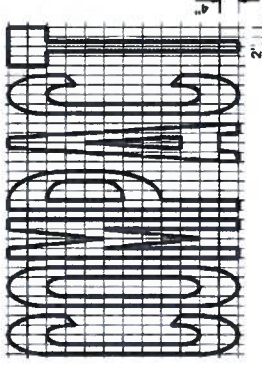
A=32 ft+2



A=6 ft+2



A=5 ft+2



A=10 ft+2

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 appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.

WORD MARKINGS

ITEM	ft+2	ITEM	ft+2	ITEM	ft+2	ITEM	ft+2
XING	21	YIELD	24	BIKE	5	PED	18
AHEAD	31	SCHOOL	35	SLOW	23	COMPACT	10
WAIT	19	SIGNAL	32	STOP	22	RUNWAY	43
LANE	6	TURIN	24	LEFT	19	VEHICLES	42
RIGHT	26	HERE	26				

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS
WORDS
 NO SCALE

A24D

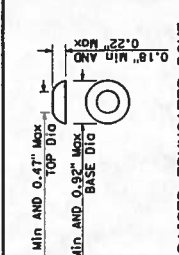
DATE	COUNTY	ROUTE	POST MILES	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER	PROFESSIONAL ENGINEER
<i>H. Paul Coker</i>	State of California
	License No. CA1957
	EXPIRES 12/31/17

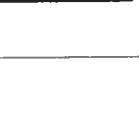
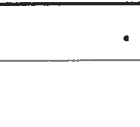
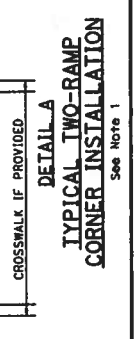
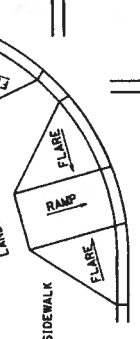
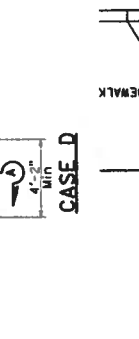
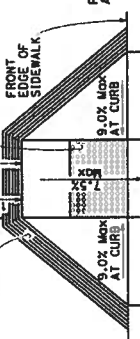
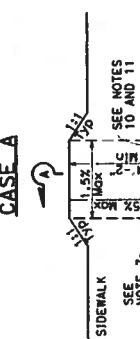
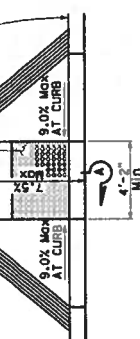
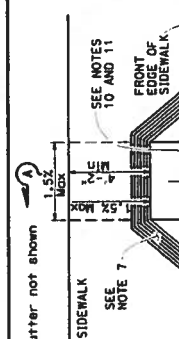
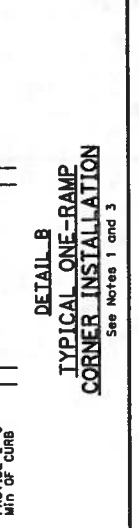
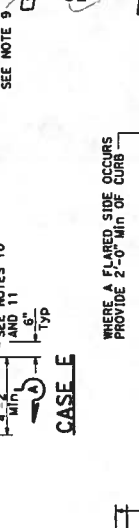
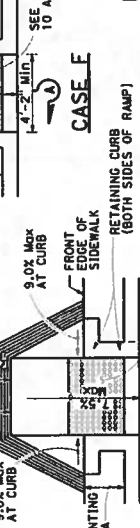
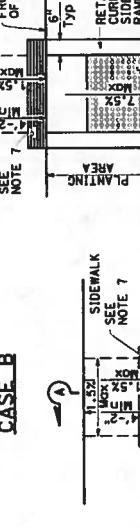
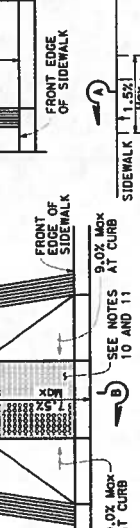
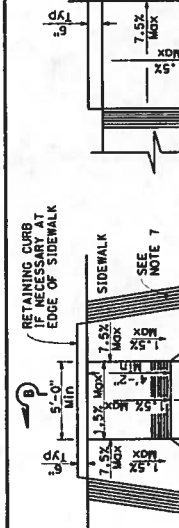
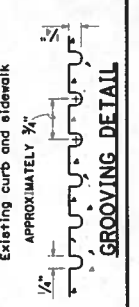
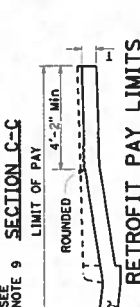
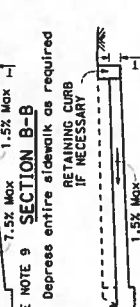
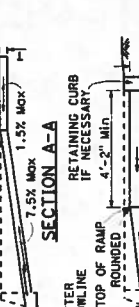
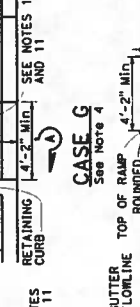
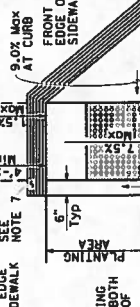
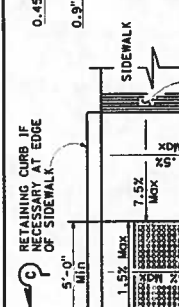
PLANS APPROVAL DATE	APPROVED BY
MARCH 21, 2014	[Signature]

FOR THE CITY OF LOS ANGELES
 THE CITY ENGINEER
 THE COUNTY OF LOS ANGELES
 COUNTY ENGINEER

- TO ACCOMPANY PLANS DATED _____
- NOTES:**
- As site conditions dictate, Case A through Case C curb ramps may be used. The case of curb ramps used in Detail A do not have to and will not be the same. Case A through Case G curb ramps also may be used at mid block locations, as site conditions dictate.
 - If distance from curb to back of sidewalk is too short to accommodate ramp and 4'-2" platform (landing) as shown in Case A, the sidewalk may be depressed longitudinally as in Case B, or C or may be widened as in Case D.
 - When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B.
 - As site conditions dictate, the retaining curb side and the flared side of the Case G ramp shall be constructed in reversed position.
 - If located on a curve, the sides of the ramp need not be parallel, but the minimum width of the ramp shall be 4'-2".
 - Side slope of ramp flares, vary uniformly from a maximum of 9.0% at gutter to 0% at sidewalk slope adjacent to top of the ramp, except in Case F.
 - The curb ramp shall be outlined, as shown, with a 1'-0" wide border with 1/4 groove approximately 1/4" on center. See grooving detail.
 - Transitions from ramps and landing to walks, gutters or streets shall be flush (no lip) and free of abrupt changes.
 - Counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 120 (5.0%), gutter pan slope shall not exceed 1' or depth for each 2'-0" of width.
 - Curb ramps shall have a detectable warning surface that extends the full width and 3'-0" depth of the ramp. A 2'-0" wide Detectable Warning Surface shall conform to the requirements in the Standard Specifications.
 - The edge of the detectable warning surface nearest the street shall be between 6" and 8" from the gutter flowline.
 - Sidewalk and ramp thickness, "T", shall be 3 1/2" minimum.
 - Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.
 - Detectable warning surface may have to be cut to allow removal of covers while maintaining full detectable warning width and depth.



- RAISED TRUNCATED DOME**
- 0.45" Min AND 0.47" Max TOP DIA
- 0.9" Min AND 0.92" Max BASE DIA
- 2.5" Min AND 2.4" Max CENTER TO CENTER SPACING

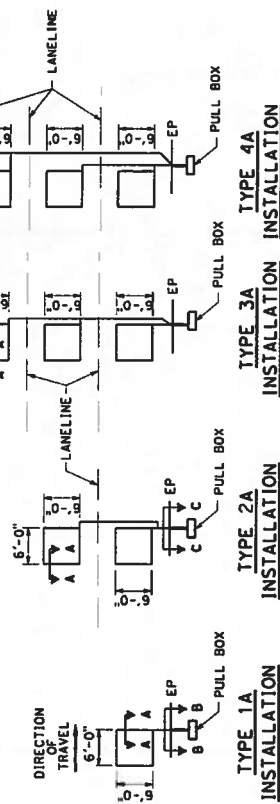


DIST	COUNTY	ROUTE	POST MILES	SHEET	TOTAL SHEETS

MAY 20, 2011
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS
 DO NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THESE
 COPIES OF THIS PLAN SHEET.

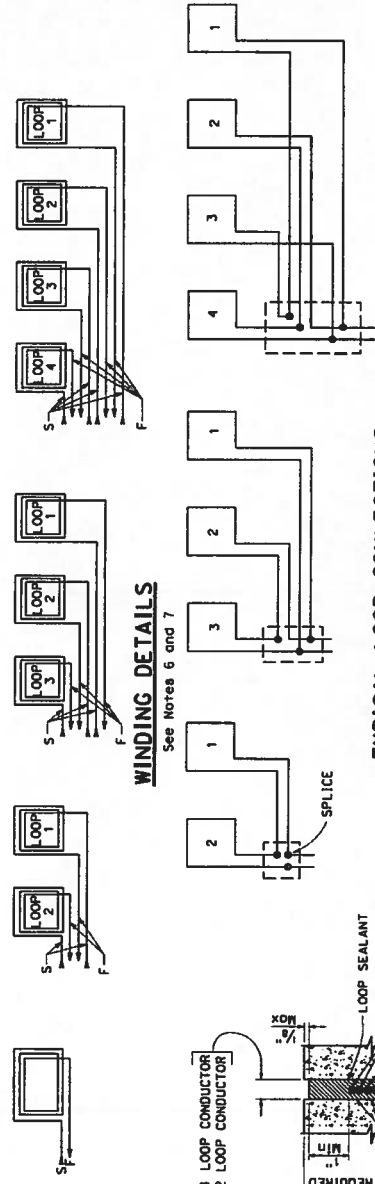
LOOP INSTALLATION PROCEDURE

- Loops shall be centered in lanes.
- Saw slots in pavement for loop conductors as shown in details.
- Distance between side of loop and a lead-in saw cut from adjacent detectors shall be 2'-0" minimum. Distance between lead-in saw cuts shall be 6" minimum.
- Bottom of saw slot shall be smooth with no sharp edges.
- Slots shall be washed until clean, blown out and thoroughly dried before installing loop conductors.
- Adjacent loops on the same sensor unit channel shall be wound in opposite directions.
- Identify and tag loop circuit pairs in the pull box with loop number, start (S) and finish (F) of conductor. Identify and tag lead-in-cable with sensor number and phase.
- Install loop conductor in slot using a 3/4" to 1/2" thick wood paddle. Hold loop conductors with wood paddles (at the bottom of the sawed slot) during sealant placement.
- No more than 2 twisted pairs shall be installed in one sawed slot.
- Allow additional 5'-0" of slack length of conductor for the lead-in run to pull box.
- The additional length of each conductor for each loop shall be twisted together (for minimum) before being placed in the slot and conduit leading to the pull box.
- Test each loop circuit for continuity, circuit resistance and insulation resistance of the pull box before filling slots.
- Fill slots as shown in details.
- Splice loop conductors to lead-in-cable. Splices shall be soldered.
- End of lead-in-cable and Type 2 loop conductor shall be waterproofed prior to installing in conduit to prevent moisture from entering the cable.
- Lead-in-cable shall not be spliced between the pull box and the controller cabinet terminals.
- Test each loop circuit for continuity, circuit resistance and insulation resistance of the controller cabinet location.
- Where loop conductors are not to be spliced to a lead-in-cable, the ends of the conductors shall be taped and waterproofed with electrical insulating coating.



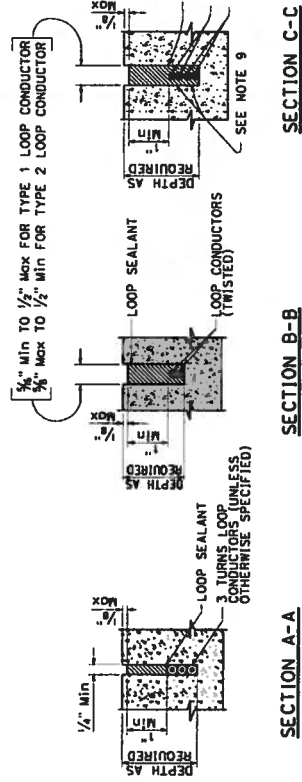
SAWCUT DETAILS

- Type A loop detector configurations illustrated
- 1A thru 4A = 1 Type A loop configuration in each lane.
 - 1B thru 4B = 1 Type B loop configuration in each lane.
 - 1C thru 4C = 1 Type C loop configuration in each lane.
 - 1D thru 4D = 1 Type D loop configuration in each lane.
 - 1E thru 4E = 1 Type E loop configuration in each lane.
 - 1F thru 4F = 1 Type F loop configuration in each lane.
- Use Type A, B, C, D, E or F loop detector configurations only when specified or shown on plans.



WINDING DETAILS

See Notes 6 and 7



SECTION A-A

SECTION B-B

SECTION C-C

SLOT DETAILS - TYPE 1 AND TYPE 2 LOOP CONDUCTOR

TYPICAL LOOP CONNECTIONS

Dashed lines represent the pull box

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (DETECTORS)**

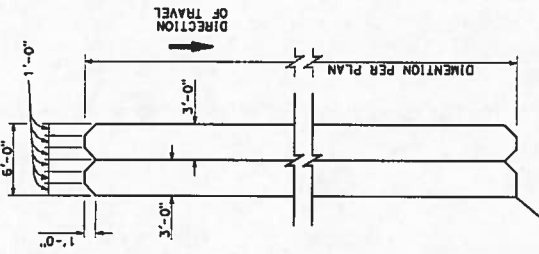
NO SCALE

ES-5A

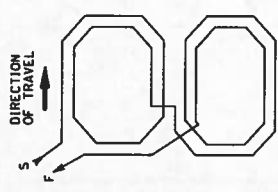
DIST	COUNTY	ROUTE	POST MILES	SHEET NO.	TOTAL SHEETS

REGISTERED ELECTRICAL ENGINEER
Richard J. Orsini
 No. 51481Z
 Exp. 12-30-12
 STATE OF CALIFORNIA

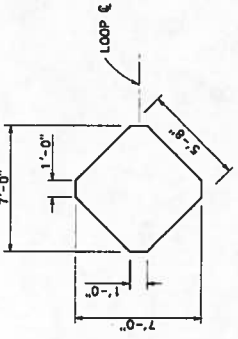
PLANS APPROVAL DATE: **MAY 20, 2011**
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS PLAN SHEET.



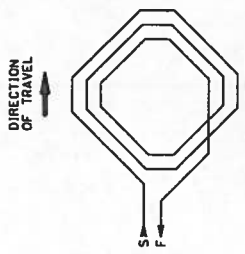
WINDING DETAIL
TYPE C LOOP DETECTOR CONFIGURATION



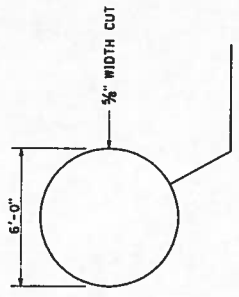
WINDING DETAIL
TYPE O LOOP DETECTOR CONFIGURATION



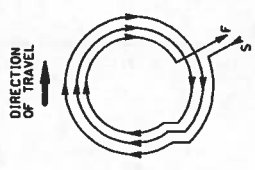
SAWCUT DETAIL
TYPE B LOOP DETECTOR CONFIGURATION



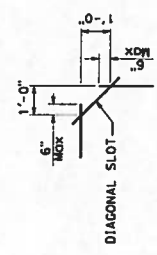
WINDING DETAIL
TYPE B LOOP DETECTOR CONFIGURATION



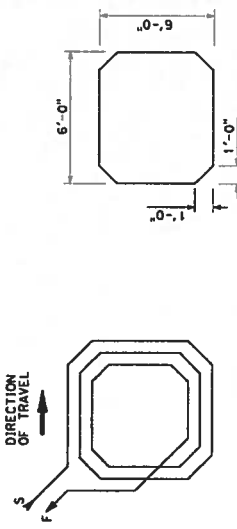
SAWCUT DETAIL
TYPE E LOOP DETECTOR CONFIGURATION



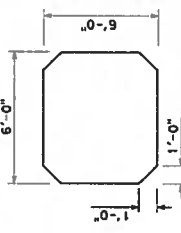
WINDING DETAIL
TYPE E LOOP DETECTOR CONFIGURATION



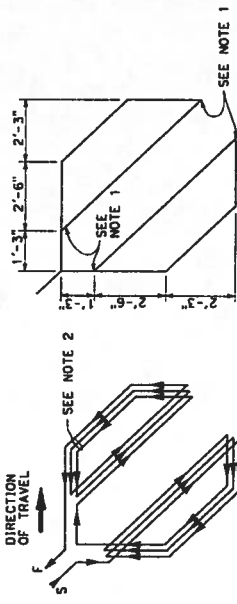
PLAN VIEW OF
DIAGONAL SLOT
AT CORNERS



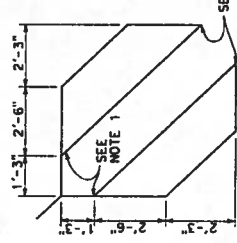
WINDING DETAIL
TYPE A LOOP DETECTOR CONFIGURATION



SAWCUT DETAIL
TYPE A LOOP DETECTOR CONFIGURATION



WINDING DETAIL
TYPE D LOOP DETECTOR CONFIGURATION



SAWCUT DETAIL
TYPE D LOOP DETECTOR CONFIGURATION

- NOTES:**
1. Round corners of acute angle sawcuts to prevent damage to conductors.
 2. Install 3 turns when only one Type D loop is on a sensor unit channel. Install 2 turns when one Type D loop is connected with 3 additional 6'-0" x 6'-0" loops on a sensor unit.
 3. Typical distance separating loops from edge to edge is 10' for Type A, B and E installation in single lane.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(DETECTORS)
 NO SCALE

ES-5B

DIST COUNTY ROUTE PROJECT TOTAL SHEETS NO. SHEETS

PLANS APPROVAL DATE
MAY 20, 2011

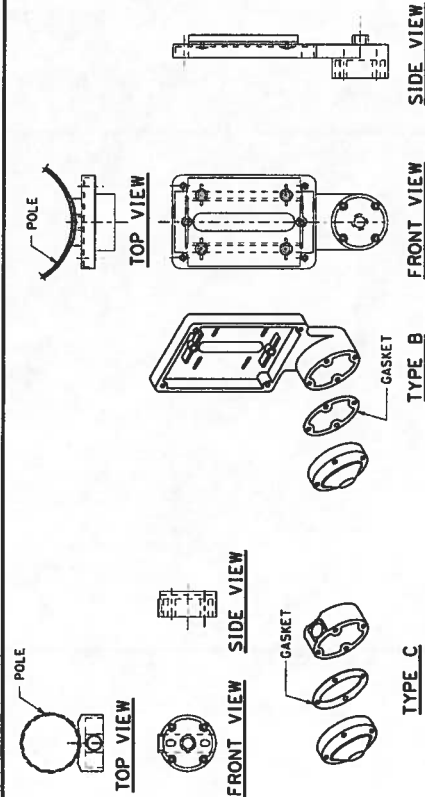
REGISTERED ELECTRICAL ENGINEER
Arthur J. Orsini

OFFICE 5, Room 114517
114517
114517
114517

STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE CONTENTS OF THIS PLAN SHEET.

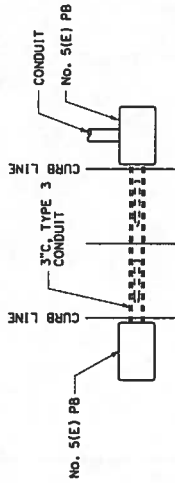
NOTES:

1. Back casting shape to fit curvature of post.
2. Provide cover fitting for top of post, when PB is mounted on pedestrian push button post.
3. Install push button on crosswalk side of standard.
4. Actuator shall be 2" minimum, in diameter.
5. Pedestrian push button sign:
 - a. Color of legend and arrow are black.
 - b. Color of background and symbol are white.
6. Bicycle push button sign:
 - a. Use only when specified.
 - b. Black legend on white background.

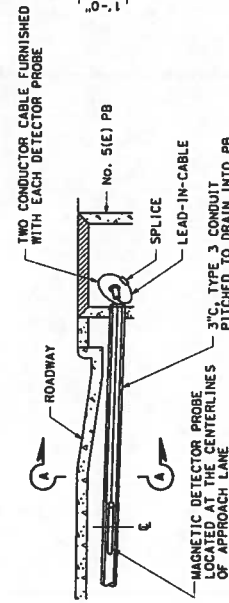


PEDESTRIAN PUSH BUTTONS

DETAIL C



PLAN



ELEVATION



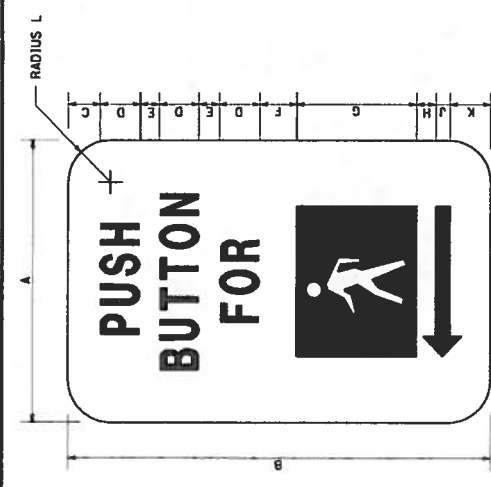
MAGNETIC VEHICLE DETECTOR INSTALLATION DETAILS

DETAIL D

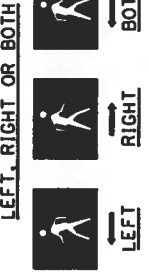
PCC FILL FOR PCC SURFACED ROADWAYS.
PCC FILL WITH TOP 3\"/>



SECTION A-A



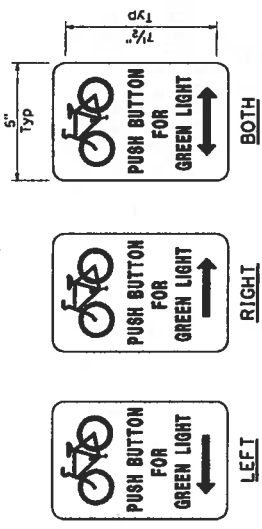
ALTERNATIVE SYMBOL AND ARROW DIRECTIONS:



SIGN DIMENSIONS												
	A	B	C	D	E	F	G	H	J	K	L	
NOMINAL	5"	7 1/2"	3/4"	3/4"	3/4"	3/4"	2 1/8"	3/4"	1/4"	3/4"	3/4"	

PEDESTRIAN PUSH BUTTON SIGNS

DETAIL A
See Note 5



BICYCLE PUSH BUTTON SIGNS

DETAIL B
See Note 6



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

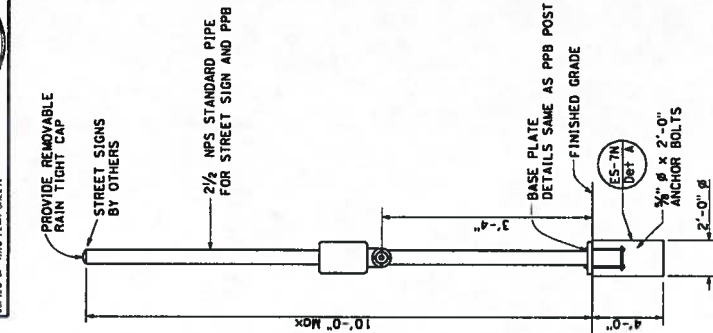
**ELECTRICAL SYSTEMS
(DETECTOR, PEDESTRIAN PUSH BUTTON AND SIGNS)**

NO SCALE

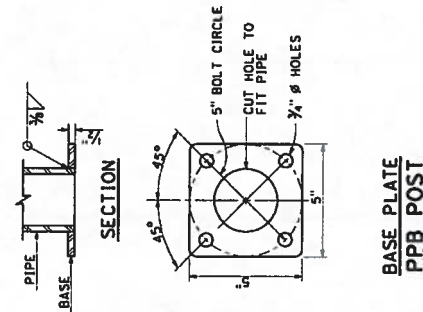
ES-5C

DISTRICT COUNTY ROUTE PROJECT TOTAL SHEETS NO. SHEETS
 REGISTERED PROFESSIONAL ENGINEER
 May 20, 2011
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS
 SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF EXAMINED
 COPIES OF THIS PLAN SHEET.

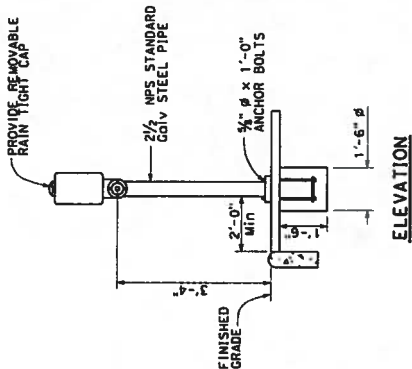
- NOTES:**
- For additional notes, details and data for Type 15TS and Type 21TS Standards, see Standard Plan ES-6A.
 - Handhole shall be located on the downstream side of traffic.



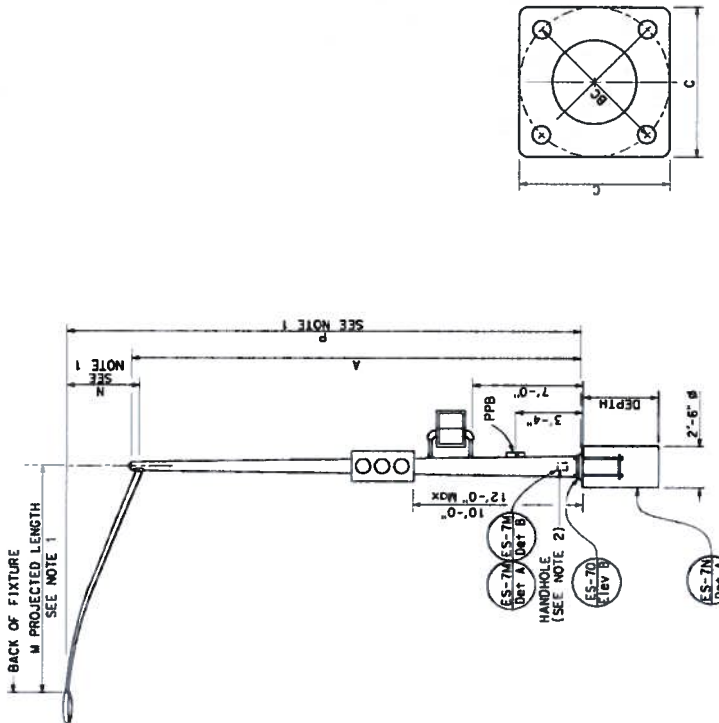
**COMBINED STREET SIGN
PEDESTRIAN PUSH BUTTON POST
DETAIL C**



**PEDESTRIAN PUSH BUTTON POST
DETAIL B**



**PEDESTRIAN PUSH BUTTON POST
DETAIL A**



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

POLE TYPE	POLE DATA			BASE PLATE DATA			CIDH DEPTH
	HEIGHT	MIN OD	WALL THICKNESS	BC = BOLT CIRCLE	C	THICKNESS	
15TS	30'-0"	8"	0.1793"	1'-1 1/2"	1'-3"	2"	7'-6"
21TS	35'-0"	9 3/8"	0.1793"	1'-3"	1'-2"	2"	8'-6"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 AND LIGHTING STANDARDS, TYPE TS,
 AND PEDESTRIAN PUSH BUTTON POST)**
 NO SCALE

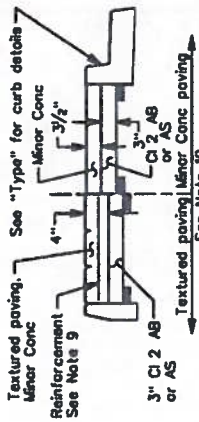
ES-7A

Return to Table of Contents

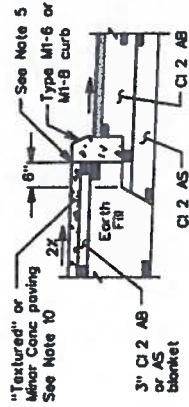
**CONTRA COSTA COUNTY
STANDARD PLANS**



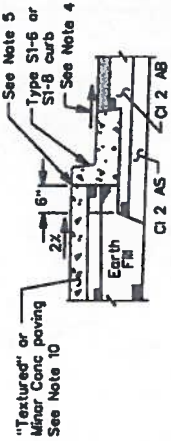
Julia R. Bueren
 PUBLIC WORKS DIRECTOR
 PLANS APPROVAL DATE: 03/21/2011
 The City of Contra Costa is the owner of the rights of copyright and all other intellectual property rights in the drawings and specifications of this plan sheet.



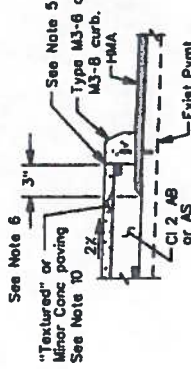
TYPICAL MEDIAN PAVING DETAIL



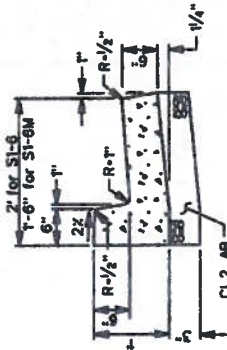
TYPE A TRAFFIC MEDIAN Half Section



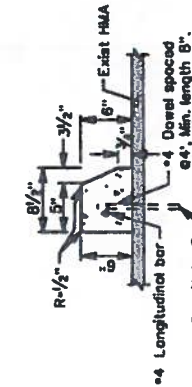
TYPE B TRAFFIC MEDIAN Half Section



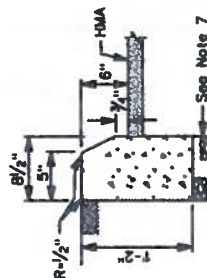
TYPE C TRAFFIC MEDIAN Half Section



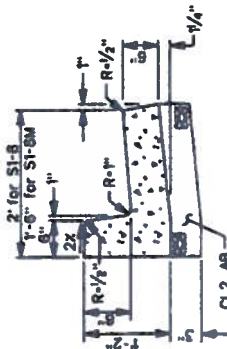
TYPE S1-6 & S1-6M



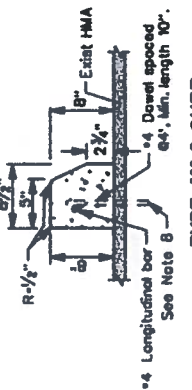
TYPE M3-6 CURB See Note 6



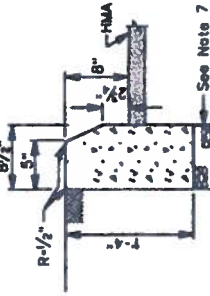
TYPE M1-6 CURB



TYPE S1-8 & S1-8M



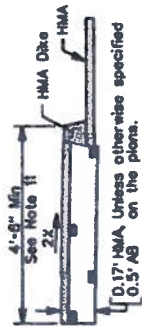
TYPE M3-8 CURB



TYPE M1-8 CURB



MODIFIED TYPE M3-8 CURB



HMA PATH WITH HMA DIKE

NOTES:

- Minor Concrete in conformance with Section 90-2, "Minor Concrete" of the California Department of Transportation's Standard Specifications containing no less than 505 lb. per cubic yard of cementitious material 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 CA70, "Detail B".
- All new curb where it conforms to existing facilities shall be dowelled as per Standard Plan CA74.
- 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 CA70 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 weakened plane joint conforming to Standard Plan CA70 Detail B shall be provided along the back of the curb.
- Type M3 curb shall be used only when placed on existing or overlaid pavement.
- A 3" minimum compacted layer of Class 2 aggregate base or subbase shall be placed under Type M1 curb, unless noted otherwise on the plans.
- Place dowels in 1" diameter drilled hole filled with #1 sand grout. Omit dowels when curb is extruded.
- Reinforcement shall be #4 bars at 18" OC each way or 6" x 8" x 8", 10 gage welded wire fabric.
- Median paving may be "textured" as approved by the Public Works Department.
- Width of HMA path shall be a minimum of 4'-6" measured from top face of curb or dike.

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

MEDIAN, CURB AND HMA DIKE
 DETAILS

SCALE: NO SCALE DATE: 3/14
 DRAWN BY: H. HUSSEY PLAN NO. CA71
 CHECKED BY: M. HALLSBERG

NO.	DATE	REVISION DESCRIPTION	BY

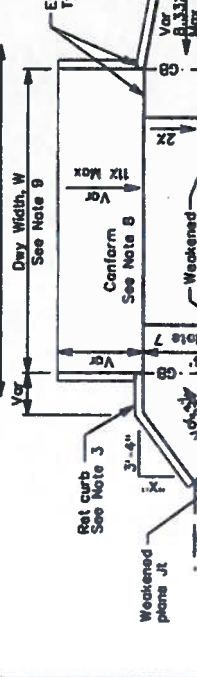
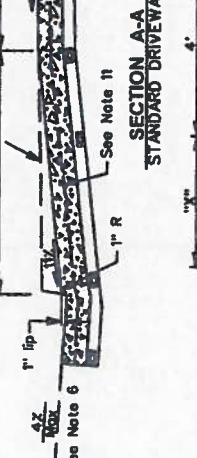
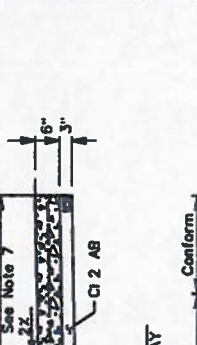


Julia R. Eberlin

PUBLIC WORKS DIRECTOR
 March 11, 2014
 PLANS APPROVAL DATE

The County of Contra Costa is the authority or agent and shall be responsible for the accuracy and completeness of electronic copies of this plan sheet.

- When existing road right of way restricts use of standard driveway ramp, the modified driveway may be used when approved by the Public Works Department. "x" shall be as large as possible, and as specified on the plans.
- Retaining curbs and driveway conform as required by the Public Works Department. See Standard Plan CA54 for retaining curb details.
- For depressed driveways (Section B-B) the sidewalk shall be a minimum of 3" ("x"-2") above the gutter flow line grade. Depth of gutter flows shall be calculated and compared to proposed depressed sidewalk elevations during design to make sure gutter flows are contained.
- See Standard Plan CA70 for weakened plane joint, expansion joint, and scorchmark details. See Standard Plan CA74 for doweling details when conforming to existing curb and sidewalk.
- If pavement cross slope exceeds 4%, the modified driveway shall be used with the slope of the driveway ramp reduced such that the difference in slope of the driveway ramp and the slope of a line between the gutter and a point on the roadway ramp slope, not the gutter slope. Other dimensions shall be modified as approved by the Public Works Department.
- Minimum width of clear passage shall be 4' with a 2% cross slope. Where right of way restrictions, natural barriers or other restrictions create an unreasonable hardship, the clear width may be reduced to 3' with a 2% cross slope, with approval of the Public Works Department.
- Acquisition of construction easement may be necessary where right of way is limited to construct driveway conform.
- Driveway width, W, as specified on the plans, and in compliance with the following:
 Residential: 10' Min to 26' Max
 Commercial: 20' Min to 35' Max
- Extend driveway conform beyond curb transition to conform to sidewalk to maintain 0.33% maximum ramp slope.
- 4 reinforcing steel bars at 18" c-c b/ways, for commercial driveways.



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

DRIVEWAY RAMP DETAILS

NO.	DATE	REVISION DESCRIPTION	BY

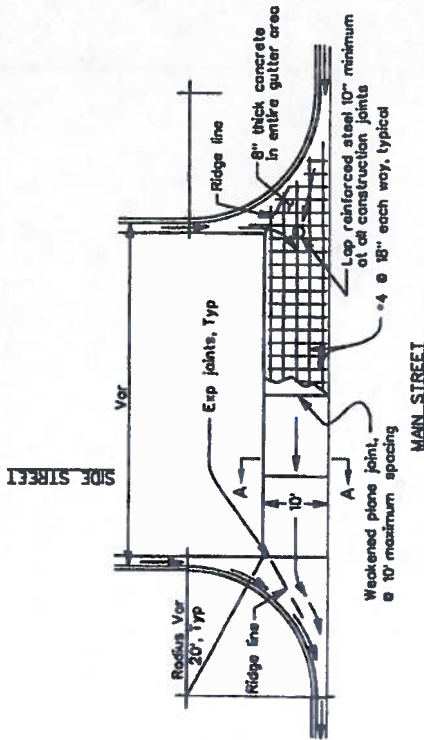
SCALE: MD SCALE	DATE: 3/14
DRAWN BY: H. HUSSEY	PLAN NO. CA72
CHECKED BY: M. WILLIAMS-WORTH	



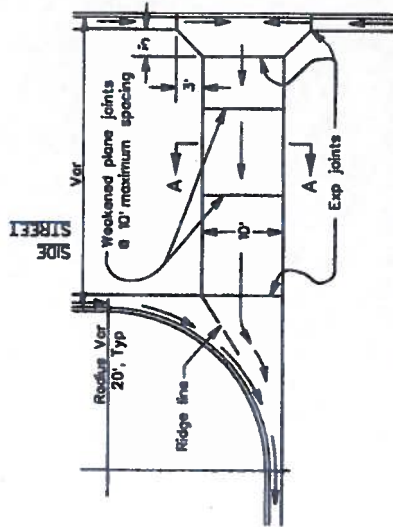
Julia R. Blueren
 PUBLIC WORKS DIRECTOR
 APPROVAL DATE: *March 11, 2014*
 This Plan of Contra Costa County is the official or approved plan for the construction of the works shown hereon, and the responsibility of adequate maintenance of the same shall rest with the contractor.

NOTES:

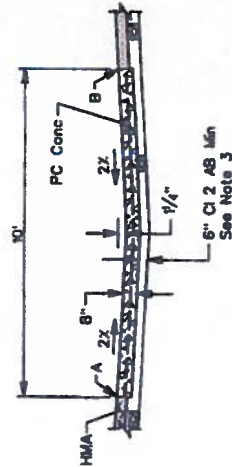
1. Valley gutters shall only be used on local roads or roads with a low volume of traffic as approved by the Public Works Department.
2. Concrete to be used for all construction shown on this plan and shall contain a minimum of 580 lbs per cubic yard of cementitious material, 1" maximum aggregate grading in conformance with Section 90, "Concrete" of the California Department of Transportation Standard Specifications.
3. If total pavement structural section thickness of side street exceeds 14", aggregate base thickness shall be increased to match total side street pavement structural section thickness.
4. For weakened plane joint and expansion joint details, see details on Standard Plan CA70.



TYPICAL PLAN - VALLEY GUTTER



JUNCTION PLAN - VALLEY GUTTER



Points A & B shall be at the same Elev.

SECTION A-A

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

**CONCRETE VALLEY GUTTER
 DETAILS**

SCALE: NO SCALE DATE: 3/14
 DRAWN BY: H. HUSSEY
 CHECKED BY: S. HOLLANDSMITH

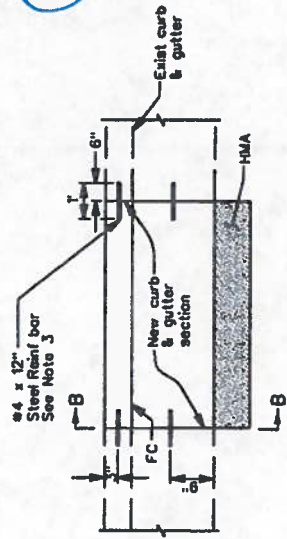
PLAN NO. **CA73**

NO	DATE	REVISION DESCRIPTION	BY

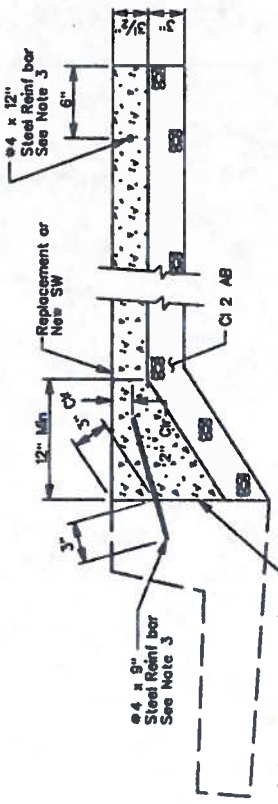
Julia R. Bessera
 PUBLIC WORKS DIRECTOR
 JULIA R. BESSERA
 LICENSE NO. 37937
 CIVIL ENGINEERING
 STATE OF CALIFORNIA

PLANS APPROVAL DATE: *March 11, 2014*

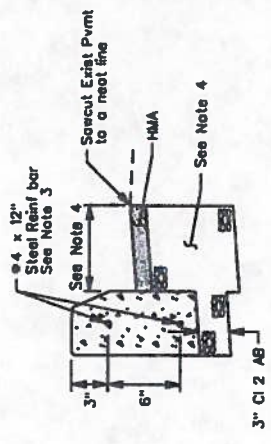
The Chief of County Public Works is the approving authority and shall certify that the plans conform to the standards and specifications of the State of California.



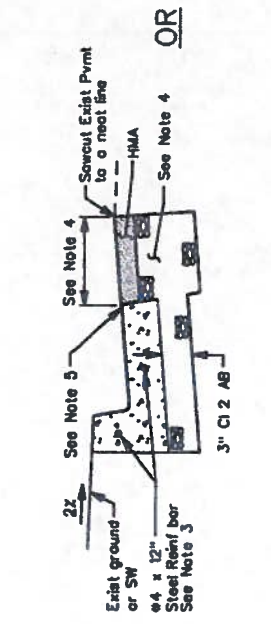
DOWELING LOCATION FOR NEW CURB CONFORMING TO EXISTING CURB



SECTION A-A

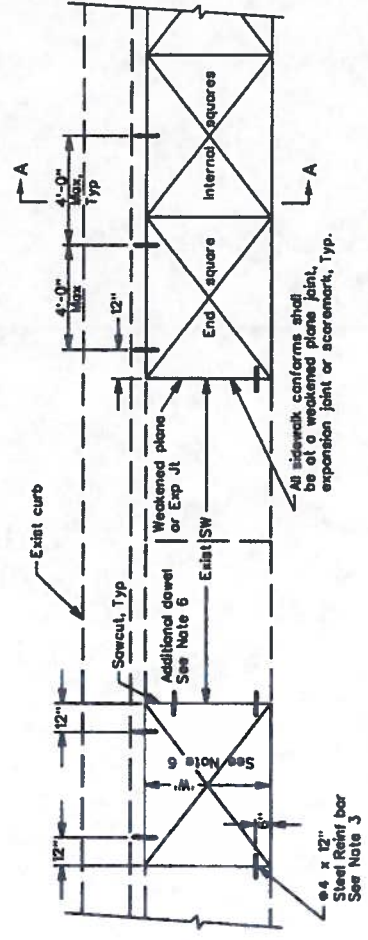


TYPE M CURB



TYPE S1 CURB

SECTION B-B



REPLACEMENT OF ONE SQUARE

REPLACEMENT OF TWO OR MORE SQUARES

LOCATIONS FOR REPLACEMENT SIDEWALK

NOTES:

- All curb, gutter, and sidewalk shall conform to Standard Plans CA70 and CA71.
- Concrete sidewalk removed for replacement construction shall be sawcut to a neat line at the nearest weakened plane joint, expansion joint or scoremart.
- Dowels shall be placed in a $\frac{3}{4}$ " diameter drilled hole filled with 1:1 sand cement grout.
- When replacing existing curb on existing alignment and grade, sawcut existing pavement 8" from gutter lip for face of curb for Type 'B' curb replacement). Remove existing HMA and base to minimum 6" depth, compact subgrade and replace with full depth HMA. If placing new curb, sawcut pavement minimum of 12" inside existing edge of pavement, EP, unless otherwise directed on project plans. New pavement structural section shall be 0.5' HMA, 0.0' AB minimum unless otherwise specified on the plans or as required by the Public Works Department.
- Paving of the gutter lip shall conform to Detail A of Standard Plan CA70. When the street slopes away from the curb, the paving shall match the gutter lip.
- If W/S-odd additional doweling, 4' maximum spacing between dowels.

COUNTY OF CONTRA COSTA
 PUBLIC WORKS DEPARTMENT
 MARTINEZ, CALIFORNIA

STANDARD PLAN

DOWELING DETAILS FOR CURB AND SIDEWALK

SCALE: NO SCALE
 DRAWN BY: H. HUSSEY
 DATE: 3/14

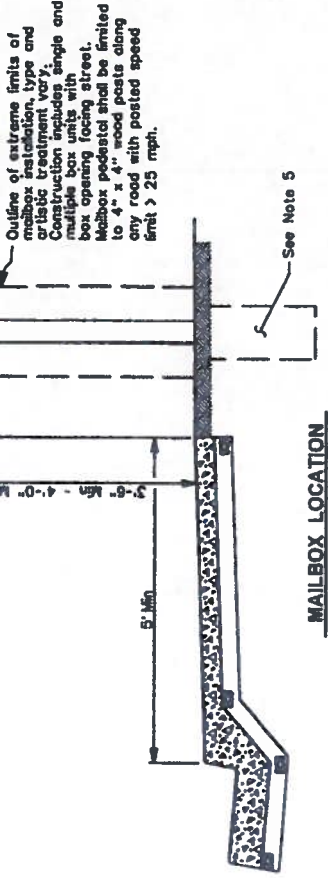
NO. DATE REVISION DESCRIPTION

BY: H. HOLLINGSWORTH
 PLAN NO. CA74
 CHECKED BY: H. HOLLINGSWORTH

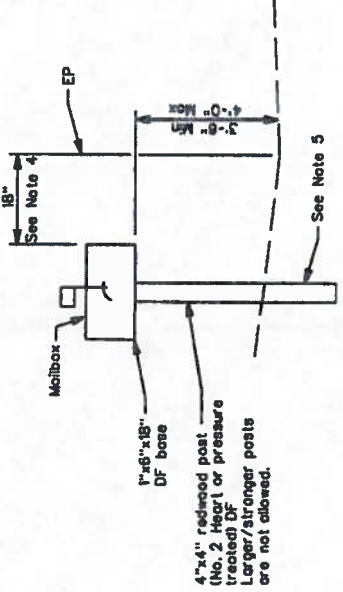


Julia R. Bueren
 PUBLIC WORKS DIRECTOR
 APPROVAL DATE: March 11, 2014
 PLANS APPROVAL DATE

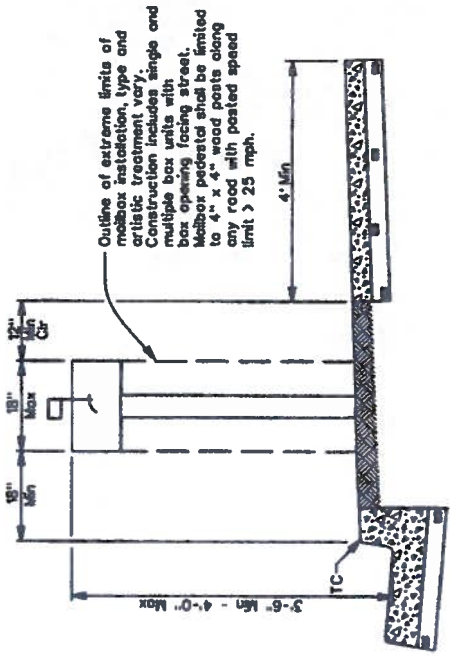
The County of Contra Costa of its officers or agents shall not be responsible for the accuracy or completeness of information supplied by any other sheet.



MAILBOX LOCATION
 Monolithic curb and sidewalk



RURAL MAILBOX DETAIL



MAILBOX LOCATION
 Separated sidewalk with planting strip

NOTES:

- Distances are established by Postal regulations and may vary depending on jurisdiction. Check with local Post Office for current regulations.
- Encroachment permit is required if mailbox is to be installed in existing sidewalk, or if installation requires modification of dimensions shown on this plan.
- See Standard Plan CA70 & CA71 for sidewalk and curb details.
- Where AC curb or curb is placed at edge of pavement, the minimum distance is measured from the face of curb or dke.
- Post depth shall be as required to adequately support mailbox to be installed. Minimum 2' depth with compacted soil backfill, no PCC backfill.

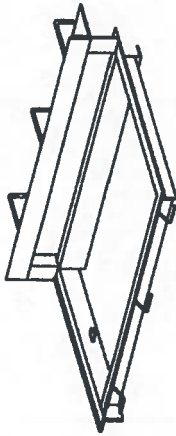
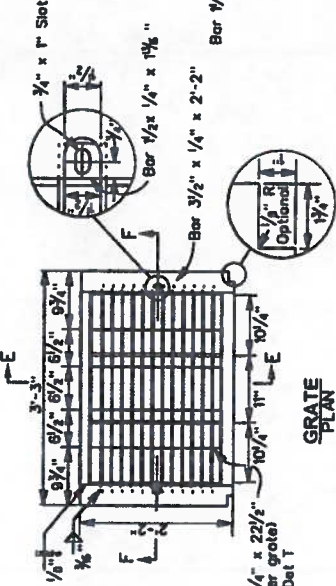
NO.	DATE	REVISION DESCRIPTION	BY

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

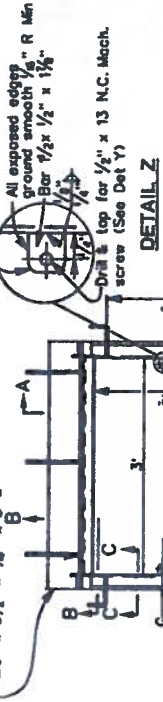
MAILBOX DETAILS

SCALE: NO SCALE DATE: 3/14
 DRAWN BY: H. HUSSEY
 CHECKED BY: M. HOLMESWORTH

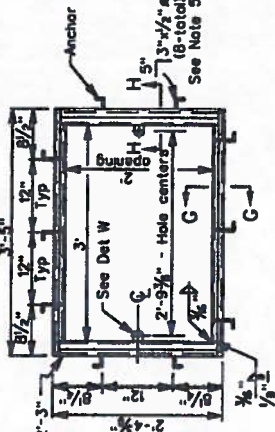
PLAN NO. **CA90**



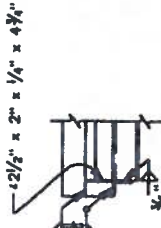
GRATE FRAME



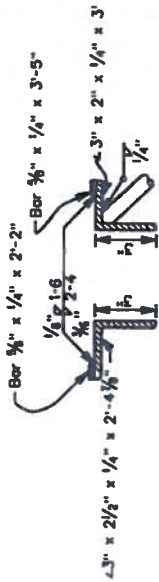
DETAIL Z



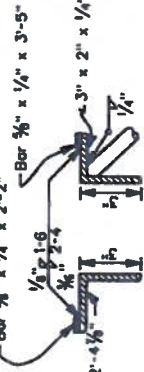
TYPE C FRAME
for Type C Inlet



SECTION A-A



SECTION C-C



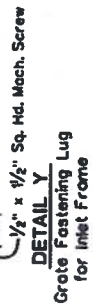
SECTION B-B



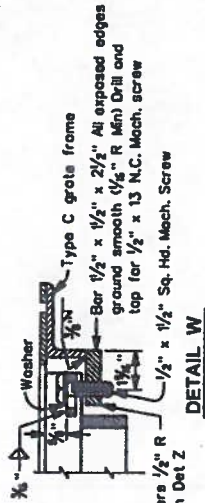
SECTION E-E



SECTION F-F



DETAIL Y
Grate Fastening Lug
for Inlet Frame



DETAIL W
Grate Fastening Lug
for Type C Inlet Frame



DETAIL I



SECTION G-G

SECTION H-H

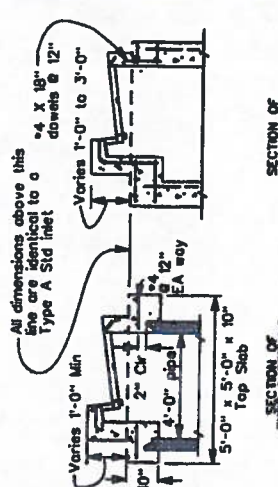
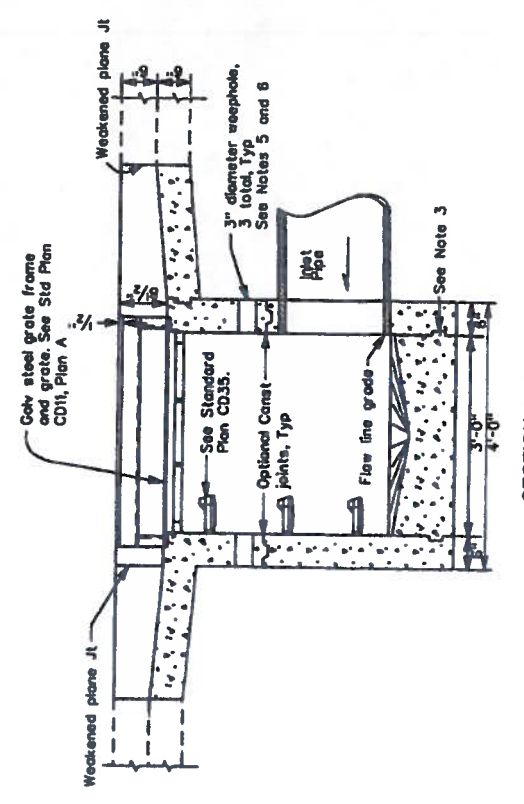
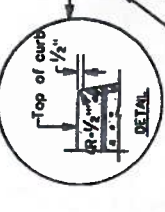
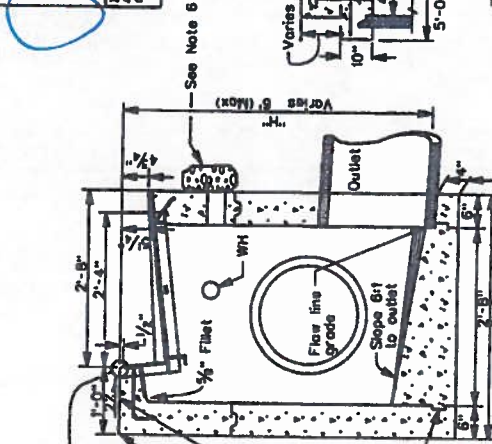
NOTES:

1. All materials, fabrication, galvanizing, and surface treatment shall be in accordance with Sections 75 and 95 of the California Department of Transportation's Standard Specifications.
2. Frames and covers shall fit together without racking.
3. Fabricator shall supply fastening screws with frames.
4. Weights: Type A grate frame 88 lbs., Grate 86 lbs.
5. 1/2" x 5/16" Nelson-Type studs may be used in lieu of 1/2" x 3" x 3" anchors.
6. Type A, B and C inlets have been replaced with Type G, H and J inlets respectively. These details are to be used for repair and maintenance of existing inlets, no new construction.

COUNTY OF CONTRA COSTA PUBLIC WORKS DEPARTMENT MARTINEZ, CALIFORNIA STANDARD PLAN		
TYPE A, B & C INLET FRAMES AND GRATES (NO. NEW CONSTRUCTION, SEE NOTE 6)		
SCALE: NO. SCALE	DATE: 3/14	PLAN NO. CD11
DRAWN BY: H. HASSEY		CHECKED BY: R. HOLMESMITH

NO.	DATE	REVISION DESCRIPTION	BY

Julia R. Bleiden
 PUBLIC WORKS DIRECTOR
 PLANS APPROVAL DATE: APRIL 2014
 The County of Contra Costa is the owner of the rights in and to the plans and specifications for the carrying out and completion of the above named project.



SECTION OF TYPE A OPENING ON MANHOLE BASE SEE STANDARD PLAN CD31 OR CD32

SECTION OF TYPE A OPENING ON MANHOLE BASE SEE STANDARD PLAN CD31 OR CD32

NOTES:

1. Unless approved by the County Public Works Department, no size Type A inlets are to be constructed. Type G inlets, Standard Plan CD27, are to be used. This plan is maintained for Record purposes and reference for repairs of existing Type A inlets.
2. For Inlet General Notes and Details, see Standard Plan CD35.
3. Construction joints are optional where shown, other locations are subject to the approval of the Public Works Department. Key dimensions - 2 1/2" x 3".
4. When dimension "A" exceeds 6'-0", use a manhole base with Type "A" inlet top.
5. If edge drains are specified by Public Works Department or shown on the plans, see Standard Plan CD08 for edge drain (ED) details.
6. See Standard Plan CD35 for weephole drainage details unless edge drain is shown on plans or as specified by Public Works Department. For edge drain details, see Standard Plan CD08.

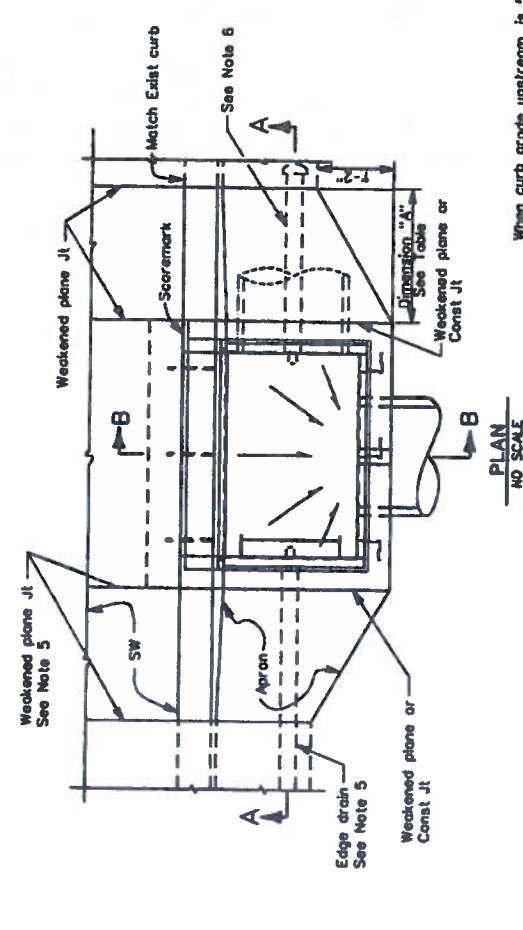
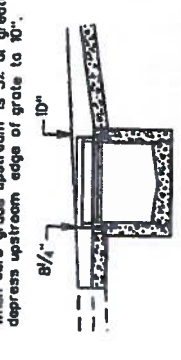


TABLE DIMENSION "A" (ft)

UPSTREAM CURB GRADE	DOWNSTREAM CURB GRADE	MINIMUM DIMENSION "A"
1:1	1:1	2'
1 1/2:1	1 1/2:1	2'
2:1	2:1	2'
3:1	3:1	2'
4:1	4:1	2'
5:1	5:1	2'
6:1	6:1	2'
7:1	7:1	2'
8:1	8:1	2'
9:1	9:1	2'
10:1	10:1	2'
12:1	12:1	2'
15:1	15:1	2'
20:1	20:1	2'

DETAIL FOR STEEP CURB SLOPE



COUNTY OF CONTRA COSTA
 PUBLIC WORKS DEPARTMENT
 MARTINEZ, CALIFORNIA
 STANDARD PLAN
TYPE "A" INLET
 (SUPERSEDED BY STD PLAN CD27; SEE NOTE 1)
 SCALE: NO SCALE
 DATE: 3/14
 DRAWN BY: M. MASSEY
 CHECKED BY: M. HOLLINGSWORTH
 PLAN NO. **CD20**

NO.	DATE	REVISION DESCRIPTION	BY



PUBLIC WORKS DIRECTOR

APPROVAL DATE

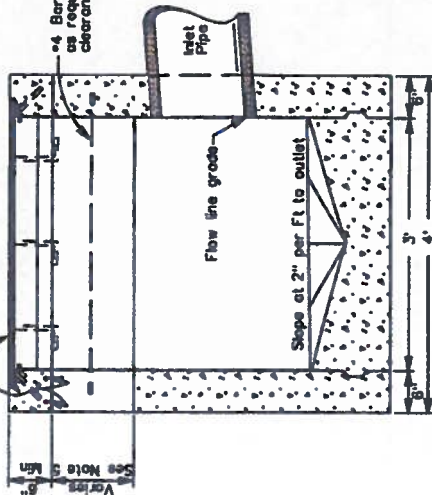
This drawing is the property of the County of Contra Costa and shall not be reproduced or otherwise copied without the written consent of the Public Works Department.

Galvanized steel grate and frame. See Standard Plan CD11, Type C. See Note 6.

Two 4" x 2'-8" across side openings. See Note 5.

Two 4" x 3'-8" across front openings. See Note 5.

4 Bars across openings as required for 6" vertical clearance (Min.).

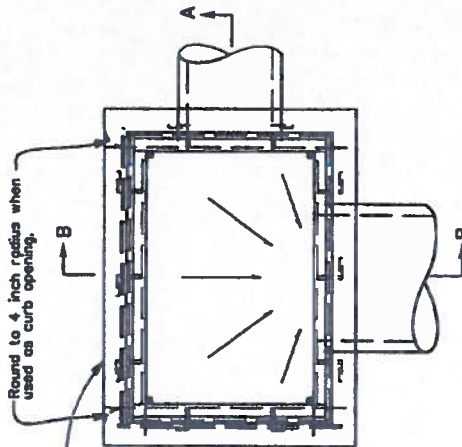


SECTION A-A

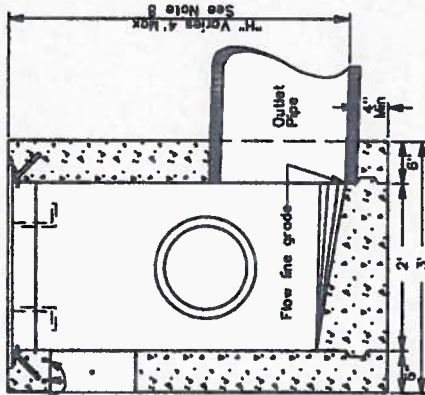
Round to 4 inch radius when used on curb opening.

Front opening See Note 5

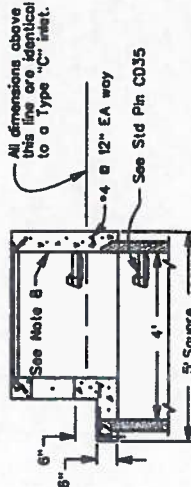
Side opening See Note 5



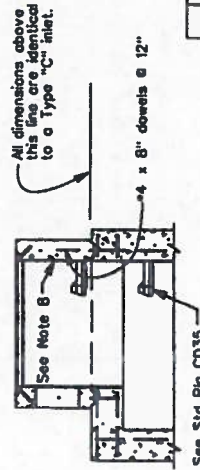
PLAN
GRATE NOT SHOWN



SECTION B-B



TYPE "C" OPENING ON PRECAST MANHOLE BARREL
REFER TO STANDARD PLAN CD30



TYPE "C" OPENING ON MANHOLE BASE
REFER TO STANDARD PLAN CD31

NOTES:

1. Unless approved by the County Public Works Department, no new Type C inlets are to be constructed. Type J inlets, Standard Plan CD29, are to be used. This plan is maintained for record purposes and references for repairs of existing Type C inlets.
2. Construction joints are optional where shown. Other locations are subject to the approval of the Public Works Department. Key Dimensions $\frac{3}{4}$ " x $2\frac{1}{4}$ ".
3. Clearance shall be 2" for all reinforcing steel.
4. For inlet General Notes and Details, see Standard Plan CD35.
5. Location, flowline elevation and size of opening to be as shown on plans, or as directed by the Public Works Department.
6. All inlets shall be constructed with grates. Inlets installed in a pedestrian area shall be Type "D".
7. Precast inlet conforming to Santa Rosa Cast Products Co. Drawing No. TYPE C or equivalent, can be substituted for cast-in-place inlet unless otherwise specified in project special provisions.
8. Maximum depth for Type "C" inlet shall be 4'. For depths greater than 4' use a manhole base with a Type "C" top. The Type "C" inside wall with stops shall be flush with manhole base inside wall.
9. Details apply to all metal, plastic, and concrete pipe.

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

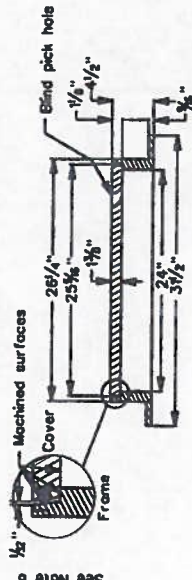
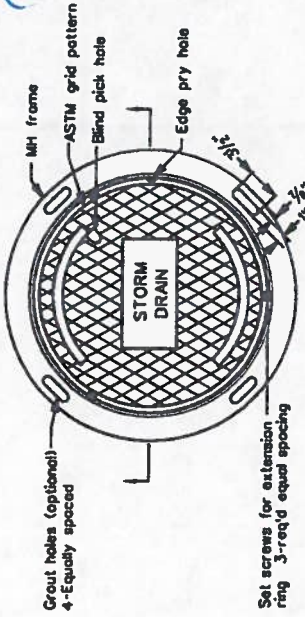
TYPE "C" INLET

(SUPERSEDED BY STD. PLAN CD29, SEE NOTE 1)	
SCALE: NO SCALE	DATE: 3/74
DRAWN BY: H. HUSSEY	PLAN NO. CD22
CHECKED BY: M. HOLLINGSWORTH	

NO.	DATE	REVISION DESCRIPTION	BY



Public Works Director
 March 11, 2014
 PLANS APPROVAL DATE
 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.

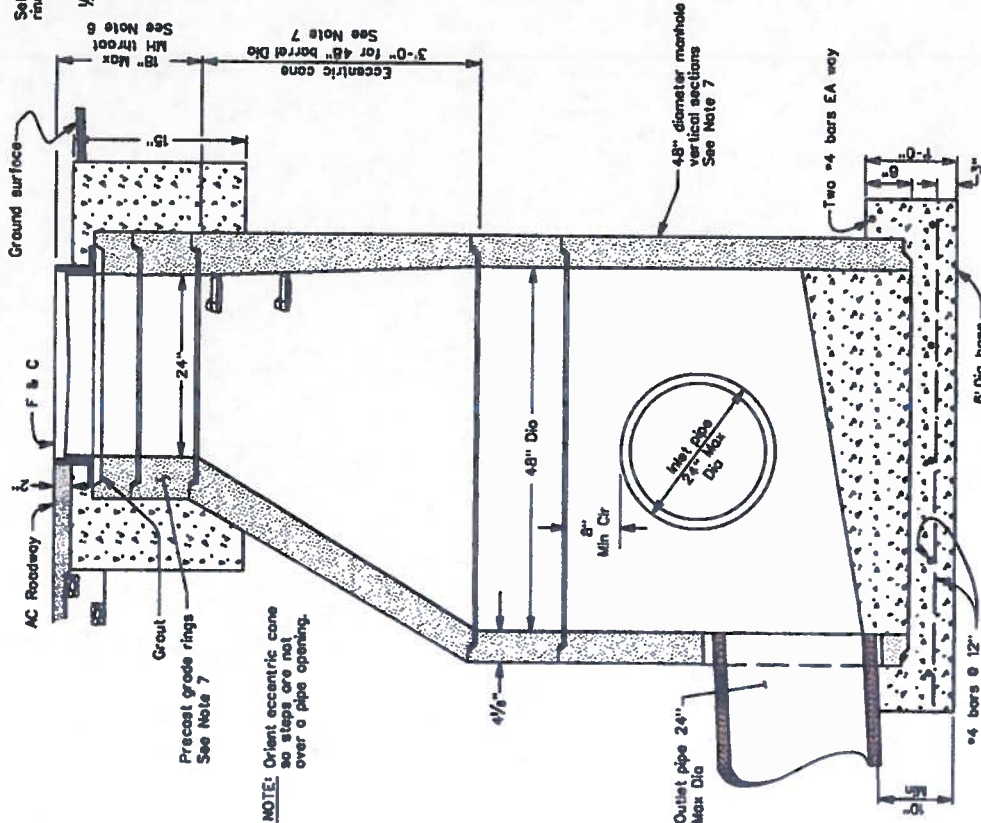


TYPICAL FRAME AND COVER DETAIL

TYPICAL CAST IRON EXTENSION RING
 See Note 7

NOTES:

1. For General Manhole Notes and Details, see Standard Plan CD35.
2. All concrete joints shall be cleaned, wetted, and mortared prior to setting next section. Joints shall then be patched, troweled, and brushed smooth.
3. Frame and extension rings must be secured by concrete block, unless approved otherwise by the Public Works Department.
4. Manhole cover frame shall be adjusted to conform to grade and cross slope of pavement.
5. Manhole frame and cover shall be Phoenix Iron (Oakland) Model P-1090 or South Bay Foundry No. 1900 CFH or approved equivalent.
6. Use of precast grade rings are limited by 18" maximum manhole throat length. Cast iron extension rings are allowed for conforms to pavement overlays only.
7. The precast components shall conform to the Central Precast (U.S. Concrete Precast Group, Northern California) Drawing Nos. 20-48C, 20-48V and 20-48 EC, or equivalent.



NOTE: Orient eccentric cone so steps are not over a pipe opening.

PRECAST MANHOLE WITH TYPE I BASE

COUNTY OF CONTRA COSTA
 PUBLIC WORKS DEPARTMENT
 MARTINEZ, CALIFORNIA
 STANDARD PLAN
**PRECAST MANHOLE,
 TYPE I BASE,
 FRAME & COVER**
 SCALE: NO. SCALE DATE: 3/14
 DRAWN BY: H. MUSSEY
 CHECKED BY: M. WILSON/ERTH
 PLAN NO. **CD30**

NO.	DATE	REVISION DESCRIPTION	BY

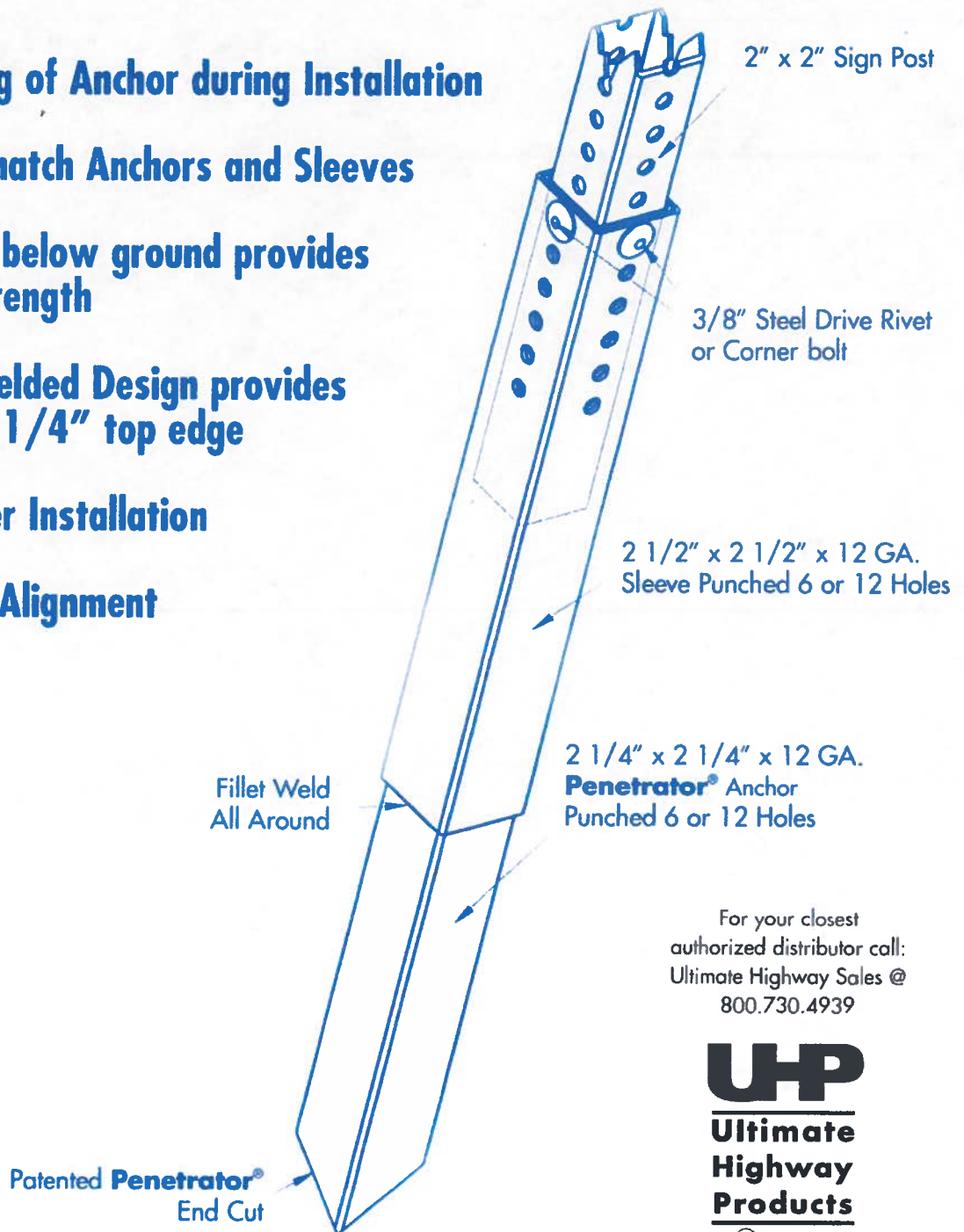
SIGN POST & ACCESSORIES

The Anchor-Mate®

The Best Drivable Anchor in the World!

by **Ulti-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**

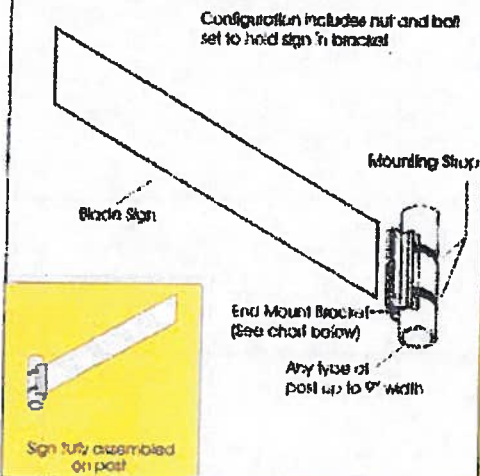
PRIMUS company

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

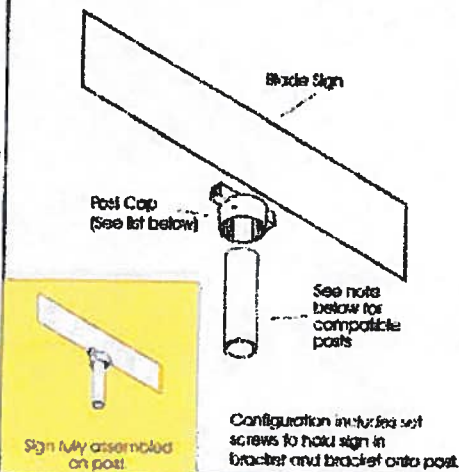
STREET SIGNS

MOUNTING COMPONENTS FOR BLADE SIGNS (EXTRUDED & FLAT)

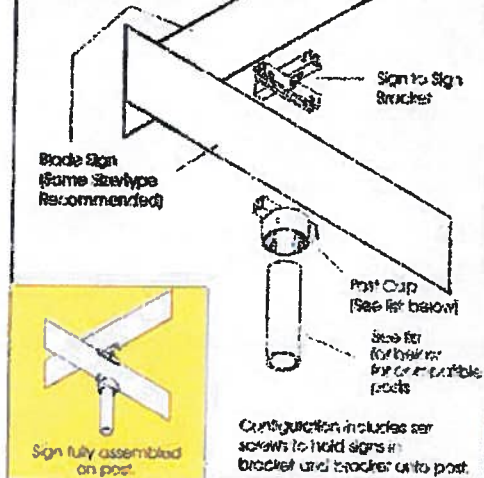
Configuration: End Mounted



Configuration: Single Top of Pole



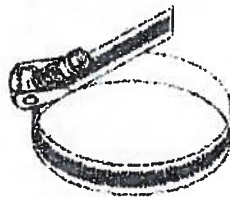
Configuration: Four-Way Top of Pole



END MOUNT BRACKET

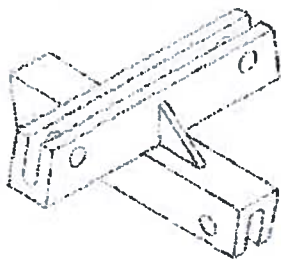
Blade street signs can be held on their ends with this bracket.

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-2.6 for AX-6 or AX-6.75 808X-2.6 for AX-9 signs 606F-2.6 for AF-6 or AF-6.75 signs 808F-2.6 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 714 952-2418

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 spinner 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



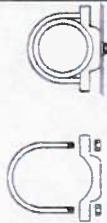
HWSSC

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

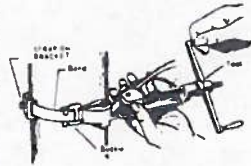
HEX HEAD BRACE BOLT
5/16" x 4 1/2" includes nut & washer.

H10-5.SHG

HEX HEAD BRACE BOLT
5/16" x 6 1/2" includes nut & washer.

H10-6.SHG

HEX HEAD BRACE BOLT
5/16" x 8 1/2" includes nut & washer.



H18-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



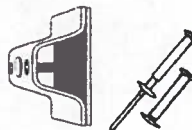
H19-HP2

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

H20-26

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



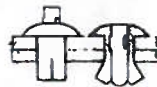
H16-C253 3/8"

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

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.




H21-GP
 5 ft., 6 ft. GUIDE POSTS (FOR MFG. TARGET PLATES)
H21-GP
 40 Inch (for mtg. Type "K" Plates) California Spec. Flanges slotted ends pointed.



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




"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
(Other lengths on special order) Hot rolled, high carbon, rail steel. 30" holes punched on 1" centers, full length. Bottom pointed. High carbon steel is recommended because it resist bending. Meets & exceeds California State specifications.



Ulti-Mate® The Ultimate Sign Support System


DIRECT INSTALLATION
 The Ulti-mate sign post can be installed directly into the ground using power equipment or a sledgehammer with drive cap.



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



HI-IMPACT INSTALLATION
 The Ulti-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.



Tube Size	English			Metric		
	Gage	Wall Thickness Inches	Pounds Per Foot	Tube Size	Wall Thickness (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

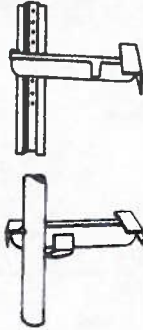
See Separate Literature

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 Slap

H25-6A
Self Locking
2" Pipe Slap



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-PDCS11/8-6
POWER DRIVE SHANK
1 1/8" x 6"

UM-PDCS11/4-6
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.



**STREET NAME
SIGN
HARDWARE**

WE MANUFACTURE A COMPLETE LINE OF STREET
NAME SIGN MOUNTING HARDWARE. LOOK FOR IT
IN THE STREET NAME SIGN SECTION OF YOUR
WESTERN HIGHWAY PRODUCTS CATALOG.

10650 FERN AVENUE, STANTON, CALIFORNIA 90680

(714) 761-4811 (800) 479-3783 FAX (714) 952-2118

<http://www.westernhighway.com>

E-mail whpsales@westernhighway.com