

CITY OF SAN CLEMENTE  
CALIFORNIA



SPECIFICATIONS

STREET REHABILITATION AND SLURRY SEAL FOR:

AVENIDA LA PATA  
(VIA ONDA TO CALLE EXTREMO)  
CITY PROJECT NO. 15312

A mandatory pre-bid meeting will be held to inspect the site and discuss the work to be done and the Contractor's responsibilities. The City's representatives will be available to address questions. The meeting will be held at the City's Public Works/ Community Development Building, located at 910 Calle Negocio, Suite 100, San Clemente, CA 92673, on Wednesday, November 12, 2014 at 10:00 a.m. - Noon



OCTOBER, 2014  
TOM BONIGUT  
ASSISTANT CITY ENGINEER

**BID SET**

## NOTICE INVITING SEALED BIDS

### Street Rehabilitation and Slurry Seal for Avenida La Pata, Project No. 15312

Sealed bids or proposals will be received at the office of the City Clerk, 100 Avenida Presidio, City of San Clemente, California, until **2:00 p.m. on November 19, 2014**, and will be publicly opened and read on said day and time in the Council Chambers, Civic Center, 100 Avenida Presidio, San Clemente, California.

The work to be done consists of furnishing all materials, equipment, tools, labor and incidentals as required by the plans, specifications and contract documents for the Street Rehabilitation and Slurry Seal for Avenida La Pata, Project No. 15312 in the City of San Clemente, California.

Reference is hereby made to these Specifications for further particulars, and same are by such reference incorporated herein and made a part thereof, the same as though fully set forth hereunder.

Plans and specifications are available with ARC. Please be advised that there is an additional charge for delivery. Upon payment of the purchase price, they become the property of the purchaser and may not be returned for refund. You may access the plans through the following website under Public Planroom and search CSC: [www.crplanwell.com](http://www.crplanwell.com). For help accessing and ordering, please contact a Planwell Administrator at (714) 424-8525.

No bid will be received unless it is made on a proposal form furnished by the City Engineer. Each bid must be accompanied by cash, certified or cashier's check, or bidder's bond, made payable to the City of San Clemente for an amount equal to at least ten percent (10%) of the amount bid, such guarantee to be forfeited should the bidder to whom the contract is awarded fail to enter into the contract.

The contract does call for monthly progress payments based on the engineer's estimate of the percentage of work completed. The City will retain 5% of each progress payment as security for completion of the balance of the work. At the request and expense of the successful bidder, the City will pay amounts so retained upon compliance with the requirements of Government Code Section 14402 and the provisions of the contract documents pertaining to "substitution of securities."

NOTICE IS FURTHER GIVEN that the Director of the Department of Industrial Relations, in accordance with Section 1770 of the California State Labor Code and in accordance with the terms of the Southern California Master Labor Agreement, has heretofore established a prevailing rate of per diem wages to be paid in the construction of the above entitled work. The said wage rates are herein referred to and adopted in this Notice as though fully set forth herein, and said scale is made a part of this Notice by reference.

NOTICE IS FURTHER GIVEN that all bids must be on the Bid Form provided, and the outside of the envelope must read as follows:

**OFFICIAL BID - DO NOT OPEN**

**Project Name:** Street Rehabilitation and Slurry Seal for Avenida La Pata

**Bid No.:** 15312

**Bid Opening Date:** November 19, 2014 at 2:00 p.m.


No bid will be accepted from a contractor who has not been licensed in accordance with the provisions of Chapter 9, Division III of the Business and Professions Code, State of California. Bidder shall possess a Class "A" California State Contracting License in good standing.

The City of San Clemente reserves the right to reject any or all bids.

Dated: October 15, 2014

To be published: October 24, 2014

and: October 31, 2014

  
\_\_\_\_\_  
Tom Bonigut  
Assistant City Engineer

A mandatory pre-bid meeting will be held to inspect the site and discuss the work to be done and the Contractor's responsibilities. The City's representatives will be available to address questions. The meeting will be held at the City's Public Works/ Community Development Building, located at 910 Calle Negocio, Suite 100, San Clemente, CA 92673, on **Wednesday, November 12, 2014 at 10:00 a.m.**

## INFORMATION FOR BIDDERS

All improvement work required to be performed and materials furnished shall be performed and furnished in strict accordance with the applicable portions of: (1) the Plans and Specifications for the Street Rehabilitation and Slurry Seal for Avenida La Pata, Project No. 15312; (2) "Standard Plans & Specifications for Public Works Construction", 2012 edition, promulgated by Public Works Standards, Inc. (Green Book); (3) OCPWD Standard Plans, 2013 edition; (5) "Standard Plans", State of California, Department of Transportation, 2010 edition; (6) "Standard Specifications", State of California, Department of Transportation, 2010 edition; and (7) State of California Manual of Traffic Controls for Construction and Maintenance Work Zones, latest edition; (8) "California Building Code", 2013 edition; (9) "California Plumbing Code", 2013 edition; (10) "California Mechanical Code", 2013 edition; (11) "California Electric Code", 2013 edition; (12) "California Fire Code", 2013 edition; and (13) "American Disabilities Act (ADA) Handbook", latest edition: (13) latest editions of City of San Clemente Engineering Division Technical Standards; (14) City of San Clemente Sewer, Water and Grading Standards: all as included herein, except for the Green Book which shall apply in general.

All traffic control shall comply with the applicable portions of: "The Work Area Traffic Control Handbook", W.A.T.C.H. Manual, Latest Edition.

### Securing of Documents

Plans and specifications are available with ARC. Please be advised that there is an additional charge for delivery. Upon payment of the purchase price, they become the property of the purchaser and may not be returned for refund. You may access the plans through the following website under Public Planroom and search CSC: [www.crplanwell.com](http://www.crplanwell.com). For help accessing and ordering, please contact a Planwell Administrator at (714) 424-8525.

### Proposal

Bids, to receive consideration, shall be made in accordance with the following instructions:

- a. Bids shall be made upon forms therefore provided with the Contract Documents and all items properly filled out; signatures of all persons signing shall be in longhand, and completed forms shall be without interlineations, alterations or erasures.
- b. Bids shall not contain any recapitulation of the work to be done. Alternate proposals will not be considered unless called for. No oral, telegraphic or telephonic proposals or modifications will be considered.
- c. All proposals or Bids shall be accompanied by a check payable to the City for an amount not less than 10% of the aggregate of the Proposal, certified by a responsible bank, or by a Bidder's Bond for the said amount so payable. Said check or bond shall be given as a guarantee that the Bidder will enter into a contract if awarded the work, and in case of refusal or failure to enter

into said Contract, the check or bond, as the case may be, shall be collected by the City of San Clemente as provided by law.

- d. With each and every Bid, where required, the Bidder shall furnish a complete statement of his financial standing and experience in construction work, or any other information as required on the Proposal Form.
- e. Before submitting a Bid, the Bidder shall carefully examine the Plans, read the Specifications and the forms of other Contract Documents, visit the site of the work, and fully inform himself as to all existing conditions and limitations, and shall include in the Bid a sum to cover the cost of all items included in the Contract.
- f. Bids shall be delivered to the City Clerk's office, City of San Clemente, before the day and hour set for the opening of Bids in the advertised NOTICE INVITING BIDS, enclosed in a sealed envelope provided therefore, and bearing the title of the work and the name of the Bidder. It is the responsibility of the Bidder only to see that his Bid is received in proper time. If any Bid is received after the scheduled closing time for receipt of Bids, it shall be returned to the Bidder unopened.

#### Withdrawal of Bids

Any Bidder may withdraw his Bid, either personally or by telegraphic or written request, at any time prior to the scheduled closing time for receipt of Bids.

#### Agreement and Bond

The form of agreement which the successful Bidder, as the Contractor, will be required to execute and the forms of bond which he will be required to furnish will be prepared subsequent to the Award of the Contract in the manner and form provided by law.

#### State and Local Labor and Material Requirements

Attention is called to the State and local labor and material requirements which form a part of the Contract or Specifications.

#### Bidder's Examination of the Site

Each Bidder shall examine carefully the site of the work and the Contract Documents therefore. It will be assumed that the Bidder has investigated and is satisfied as to the conditions to be encountered; as to the character, quality and quantity of the work to be performed; as to the quality and quantity of the materials to be furnished; and as to the requirements of the contract specifications and drawings.

### Opening of Bids

Bids will be opened and publicly read aloud at the time set in the advertised NOTICE INVITING BIDS in the City Council Chambers, Civic Center, 100 Avenida Presidio, San Clemente, California.

In cases where only one Bid is received for a Contract, such Bid will be properly opened and read aloud in the usual manner. If any Bid or security furnished therewith is irregular or informal, the facts will be noted and publicly announced at the time of reading thereof. Bidders or their representatives and other interested persons may be present at the opening and reading of the Bids.

### Disqualification of Bidders

More than one Proposal from an individual, firm, partnership, corporation or association under the same or different names will not be considered. Reasonable grounds for believing that any Bidder is interested in more than one Proposal for the work contemplated will cause the rejection of all Proposals in which the Bidder is interested. If there is reason for believing that collusion exists among the Bidders, all Bids will be rejected and none of the participants in such collusion will be considered for future Proposals.

### Bidder's Qualifications

Contractor must possess a Class "A" California State Contracting License in good standing. The Contractor and all subcontractors (or concessionaires) must obtain and maintain in effect a valid City of San Clemente Business License prior to commencement of work, and during the entire time that work is being performed under the contract.

All Subcontractors must possess an applicable California license for their portion of the work.

## BID PROPOSAL

### **Street Rehabilitation and Slurry Seal for Avenida La Pata, Project No. 15312**

TO THE HONORABLE MAYOR AND  
MEMBERS OF THE CITY COUNCIL  
City of San Clemente  
San Clemente, California

Ladies & Gentlemen:

Pursuant to and in compliance with your Notice Inviting Sealed Bids or Proposals, and other documents thereto, the undersigned Bidder, having familiarized himself with the terms of the Contract and the cost of the work at the place where the work is to be done, and with any addenda thereto, hereby proposes and agrees to perform, within the time stipulated, the Contract including all of its component parts and everything to be performed, and to provide and furnish any and all of the labor, materials, tools, equipment and all utility and transportation services necessary to perform the contract, and complete in a workmanlike manner all of the work covered by the contract in connection with the project identified as the Plans and Specifications for the Street Rehabilitation and Slurry Seal for Avenida La Pata, Project No. 15312; at the following prices for the items upon which prices are quoted and set opposite those items.

All improvement work required to be performed and materials furnished shall be performed and furnished in strict accordance with the applicable portions of: (1) the Plans and Specifications for the Street Rehabilitation and Slurry Seal for Avenida La Pata, Project No. 15312; (2) "Standard Plans & Specifications for Public Works Construction", 2012 edition, promulgated by Public Works Standards, Inc. (Green Book); (3) OCPWD Standard Plans, 2013 edition; (5) "Standard Plans", State of California, Department of Transportation, 2010 edition; (6) "Standard Specifications", State of California, Department of Transportation, 2010 edition; and (7) State of California Manual of Traffic Controls for Construction and Maintenance Work Zones, latest edition; (8) "California Building Code", 2013 edition; (9) "California Plumbing Code", 2013 edition; (10) "California Mechanical Code", 2013 edition; (11) "California Electric Code", 2013 edition; (12) "California Fire Code", 2013 edition; and (13) "American Disabilities Act (ADA) Handbook", latest edition: (13) latest editions of City of San Clemente Engineering Division Technical Standards; (14) City of San Clemente Sewer, Water and Grading Standards: all as included herein, except for the Green Book which shall apply in general.

All traffic control shall comply with the applicable portions of: "The Work Area Traffic Control Handbook", W.A.T.C.H. Manual, Latest Edition.

The City Council of the City of San Clemente reserves the right to reject any or all bids.

Each Bid shall be accompanied by Bidder's Bond, or Cashier's Bond or Certified Check, payable to the City of San Clemente, in the amount that is not less than ten percent (10%) of the total bid, which is

given as a guarantee that the undersigned will enter into a Contract if awarded the work. The Bidder agrees that, in case of his default in executing said Contract with necessary bonds, the bond or check accompanying this Bid, and the money made payable shall become and remain the property of the City of San Clemente.



**BID FORM**

**Street Rehabilitation and Slurry Seal for Avenida La Pata, Project No. 15312**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QUANTITY</b>	<b>UNITS</b>	<b>UNIT COST</b>	<b>TOTAL</b>
1.	Mobilization	1	L.S.	\$ _____	\$ _____
2.	Clearing & Grubbing and Subgrade Preparation	1	L.S.	\$ _____	\$ _____
3.	Sawcut and remove local depression and subgrade soil	50	S.F.	\$ _____	\$ _____
4.	Sawcut and remove curb and gutter, Type A2-8 (W=24") and subgrade soil	150	L.F.	\$ _____	\$ _____
5.	Sawcut and remove median curb, Type A1-8	140	L.F.	\$ _____	\$ _____
6.	Sawcut and remove curb ramp, sidewalk and subgrade soil	2,000	S.F.	\$ _____	\$ _____
7.	Remove 4" parking stall striping	1,521	L.F.	\$ _____	\$ _____
8.	Remove thermoplastic SIGNAL AHEAD legends	4	Sets	\$ _____	\$ _____
9.	Remove thermoplastic BIKE LANE legends	14	Sets	\$ _____	\$ _____
10.	Remove thermoplastic bike lane arrow	14	Each	\$ _____	\$ _____
11.	Remove 6" thermo bike lane stripe	10,747	L.F.	\$ _____	\$ _____
12.	Remove 6" thermo bike lane intersection stripe	1,321	L.F.	\$ _____	\$ _____
13.	Remove 4" thermo lane stripe	12,360	L.F.	\$ _____	\$ _____
14.	Remove 4" thermo solid stripe	1,066	L.F.	\$ _____	\$ _____
15.	Remove 8" thermo solid stripe	855	L.F.	\$ _____	\$ _____
16.	Remove 12" thermo solid stripe	210	L.F.	\$ _____	\$ _____
17.	Remove reflective pavement markers	1	L.S.	\$ _____	\$ _____
18.	Remove thermo arrow, Type IV (L)	12	Each	\$ _____	\$ _____
19.	Remove thermo merge arrow (L=18')	3	Each	\$ _____	\$ _____
20.	Construct Curb and Gutter per City Std. No. ST-6, Type A2-8, modified per "Curb and Gutter/Sidewalk – Dimension and Key Modification Detail	150	L.F.	\$ _____	\$ _____

ITEM	DESCRIPTION	QUANTITY	UNITS	UNIT COST	TOTAL
21.	Construct median curb, Type A1-8	140	L.F.	\$ _____	\$ _____
22.	Construct Local Depression per OCPW Std. Plan 1308	50	S.F.	\$ _____	\$ _____
23.	Furnish and install Caltrans Type 24-10C Ductile Iron Grate (see Exhibit "D"). Remove and dispose of the existing grate.	1	L.S.	\$ _____	\$ _____
24.	Set and adjust street light / electrical pullbox furnished by City	4	Each	\$ _____	\$ _____
25.	Construct curb ramp (gray) per City Std. No. ST-2 modified per "Curb and Gutter/Sidewalk – Dimension and Key Modification Detail	1,600	S.F.	\$ _____	\$ _____
26.	Construct retaining curb, Type A1-8 at back of curb ramps and sidewalk as needed per Caltrans Std. Plan A87-A, Type A1-8	100	L.F.	\$ _____	\$ _____
27.	Construct Armorcast cast in place wet set dark gray truncated domes (4'x3')	36	S.F.	\$ _____	\$ _____
28.	Construct Safety Step TD surface applied detectable warning system	60	S.F.	\$ _____	\$ _____
29.	Grind depressed curb to construct zero lip	30	L.F.	\$ _____	\$ _____
30.	Construct Sidewalk per City Std. No. ST-3 modified per "Curb and Gutter/Sidewalk – Dimension and Key Modification Detail	400	S.F.	\$ _____	\$ _____
31.	Construct Longitudinal Gutter per City of San Clemente Std. No. ST-8 (W=3') at median opening for Steed Park exit.	180	S.F.	\$ _____	\$ _____
32.	Cold mill 2.5" in marked locations	37,000	S.F.	\$ _____	\$ _____
33.	Remove existing street section 4.5" after cold milling is completed	80	C.Y.	\$ _____	\$ _____
34.	Over Excavation	30	C.Y.	\$ _____	\$ _____
35.	Place Mirafi 600X geotextile fabric on subgrade of pavement section removal areas	7,000	S.F.	\$ _____	\$ _____
36.	Construct 4.5" asphalt concrete base course, Type III B1 PG 70-10 at removal locations and all gutter slots	200	Ton	\$ _____	\$ _____

ITEM	DESCRIPTION	QUANTITY	UNITS	UNIT COST	TOTAL
37.	Construct 2.5" asphalt concrete cap at removal locations in slurry seal area, Type III C2 PG 64-10	560	Ton	\$ _____	\$ _____
38.	Cold mill asphalt concrete pavement 2" (Via Onda to Ave. Pico, southbound side only and entire Pico /La Pata intersection)	54,000	S.F.	\$ _____	\$ _____
39.	HPS No Track Tack	10	Ton	\$ _____	\$ _____
40.	Construct 2" asphalt concrete cap (Via Onda to Ave. Pico, southbound side only and entire Pico/La Pata intersection) Type III C2 PG 64-10	810	Ton	\$ _____	\$ _____
41.	Pave level course, Type III C2 PG 64-10 (as marked in field by City inspector)	60	Ton	\$ _____	\$ _____
42.	Slurry seal pavement, Type 1 (3%LMQSC-1h) (only to be used within 13' of curb face)	100	E.L.T.	\$ _____	\$ _____
43.	Slurry seal pavement, Type 2 (3%LMQSC-1h) (not to be used within 13" of curb face).	285	E.L.T.	\$ _____	\$ _____
44.	Install Traffic Detection Loop, Type D	14	Each	\$ _____	\$ _____
45.	Install Traffic Detection Loop, Type E	32	Each	\$ _____	\$ _____
46.	Street Sweeping and Dust Control	1	L.S.	\$ _____	\$ _____
47.	Prepare Traffic Control Plan	1	L.S.	\$ _____	\$ _____
48.	Traffic Control & Temporary Striping	1	L.S.	\$ _____	\$ _____
49.	Portable Changeable Message Sign	4	Each	\$ _____	\$ _____
50.	Temp. Inlet Drainage Protection, BMP monitoring and Temp. Concrete Washout	1	L.S.	\$ _____	\$ _____
51.	In cold mill areas, temporary lower sewer manhole and insert plywood. Adjust existing manhole rim and cover to final grade. Remove plywood and clean out debris.	11	Each	\$ _____	\$ _____
52.	In cold mill areas, temporary lower storm drain manhole rim and cover. Adjust existing manhole rim and cover to final grade.	5	Each	\$ _____	\$ _____

ITEM	DESCRIPTION	QUANTITY	UNITS	UNIT COST	TOTAL
53.	In cold mill areas, temporary lower valve can and provide valve can emergency access. Furnish new top section and cover and adjust water valve can to final grade. Clean out valve can to provide access to valve stem.	9	Each	\$ _____	\$ _____
54.	In cold mill areas, temporary lower SBF 1237 Triangle water valve box prior to cold milling and provide valve box emergency access. Furnish new and adjust water valve box to final grade. Clean out valve box to provide access to valve stem.	7	Each	\$ _____	\$ _____
55.	Install thermoplastic 4" double stripe parking stall striping (as measured along each stripe)	1,521	L.F.	\$ _____	\$ _____
56.	Install thermoplastic 4" solid white line	1,166	L.F.	\$ _____	\$ _____
57.	Install thermoplastic 4" solid yellow line at Del Cerro adjacent to existing wheel stops	422	L.F.	\$ _____	\$ _____
58.	Install thermoplastic 4" lane line with Type "G" markers per Caltrans Std. Plan A20A, Detail 9	13,360	L.F.	\$ _____	\$ _____
59.	Install thermoplastic 4" double yellow centerline per Caltrans Std. Plan A20A, Detail 22	100	L.F.	\$ _____	\$ _____
60.	Install thermoplastic 4" lane line extension through intersection per Caltrans Std. Plan A20D, Detail 40	200	L.F.	\$ _____	\$ _____
61.	Install thermoplastic 6" solid white bike lane line per Caltrans Std. Plan A20D, Detail 39	20,774	L.F.	\$ _____	\$ _____
62.	Install thermoplastic 6" skip white bike lane line per Caltrans Std. Plan A20D, Detail 39A	1,665	L.F.	\$ _____	\$ _____
63.	Install thermoplastic 12" diagonal white hatch inside bike lane buffer (40' spacing) and cap ends of buffer	2,200	L.F.	\$ _____	\$ _____
64.	Paint (two coats) helmeted person bike lane legend per Caltrans Std. Plan A24C	140	S.F.	\$ _____	\$ _____
65.	Install thermoplastic 8" channelizing line with Type "G" markers per Caltrans Std. Plan A20D, Detail 38	1,046	L.F.	\$ _____	\$ _____

ITEM	DESCRIPTION	QUANTITY	UNITS	UNIT COST	TOTAL
66.	Install thermoplastic 12" white limit lines per Caltrans Std. Plan A24E	250	L.F.	\$ _____	\$ _____
67.	Install thermoplastic 12" white basic crosswalk per Caltrans Std. Plan A24F	1,156	L.F.	\$ _____	\$ _____
68.	Install thermoplastic "SIGNAL AHEAD" legend per Caltrans Std. Plan A24D	126	S.F.	\$ _____	\$ _____
69.	Install thermoplastic "STOP" legend per Caltrans Std. Plan A24D	44	S.F.	\$ _____	\$ _____
70.	Install thermoplastic pavement marking arrows per Caltrans Revised Std. Plan A24A, Type IV (L)	75	S.F.	\$ _____	\$ _____
71.	Install thermoplastic pavement marking arrows per Caltrans Revised Std. Plan A24A, Type VI (18')	126	S.F.	\$ _____	\$ _____
72.	Paint reflective yellow traffic paint on median nose	150	L.F.	\$ _____	\$ _____
73.	Paint curb face and top of curb with red traffic paint	47	L.F.	\$ _____	\$ _____
74.	Install Type "H" markers along median per Caltrans Std. Plan A20B, Detail 26	290	Each	\$ _____	\$ _____
75.	Install blue fire hydrant marker	18	Each	\$ _____	\$ _____
76.	Install yellow Safe-Hit Corp. guidepost (H=2')	2	Each	\$ _____	\$ _____
77.	Install new Telespar post, sleeve and anchor per OCPW Std. Plan 1417	17	Set	\$ _____	\$ _____
78.	Install new R81 (CA) sign (18"x 24")	2	Each	\$ _____	\$ _____
79.	Remove existing R81B (CA) "END" plate	2	Each	\$ _____	\$ _____
80.	Install new R26 (CA) sign	15	Each	\$ _____	\$ _____
81.	Soda blast to remove all conflicting paint and thermoplastic markings, including remaining cat tracks from a.c. and p.c.c. at completion of project	1	L.S.	\$ _____	\$ _____
82.	Survey monument field search	1	L.S.	\$ _____	\$ _____

ITEM	DESCRIPTION	QUANTITY	UNITS	UNIT COST	TOTAL
83.	Tie out and re-establish survey monuments	25	Each	\$ _____	\$ _____

**Grand Total Bid Price for the Street Rehabilitation and Slurry Seal for Avenida La Pata, Project No. 15312**

\$ \_\_\_\_\_

Words:

\_\_\_\_\_  
 \_\_\_\_\_

**All quantities shown are estimates for bidding purposes only. The City reserves the right to delete any of the bid items from the project. The contract will be awarded to the lowest responsive and responsible bidder, based on the grand total bid price.**

BIDDER: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

\_\_\_\_\_

TELEPHONE: \_\_\_\_\_

If awarded the Contract, the undersigned hereby agrees to sign said Contract and furnish the necessary bonds (100% of the Contract price for Faithful Performance, and 100% of the Contract price for Labor and Materials) within ten (10) days after notification of award of the Contract.

**It is understood and agreed that the work under a Contract awarded pursuant to this Bid will be commenced by the undersigned Bidder, if awarded a Contract, upon receipt of Notice to Proceed from the City, and will be completed by the Contractor within forty five (45) calendar days from said date of the Notice to Proceed.** Failure of the Contractor to complete work within the time allowed will result in damages being sustained by the Agency. Unless otherwise provided, the Contractor will pay to the Agency five hundred dollars (\$500.00) for each day of delay in finishing time work in excess of time specified for completion, plus any authorized time extensions, all as provided in Section 6-9 of said Standard Specifications for Public Works Construction. The \$500.00 per day liquidated damages provision is not intended to cover actual expenses reasonably and necessarily incurred by the City in retaining other contractors, inspectors, engineering consultants, etc., as a result of any delay by the Contractor.

It is understood that the quantities shown for the unit price items are approximate only and subject to increase or decrease, being stated only for the purpose of comparing bids and fixing the amount of surety bonds, and that should the quantity of work on the unit price basis be increased, the undersigned

Bidder will perform the additional work at the unit price set out herein, and that should the quantity be decreased, payment is to be made on the actual quantity installed at such unit price, and the undersigned Bidder will make no claims for anticipated profits or additional compensation for any increase or decrease in the quantity. It is further understood that actual quantities on the unit price items will be determined upon completion of the work covered by the Contract.

The undersigned hereby certifies that this Proposal is genuine and not sham or collusive, or made in the interest or behalf of any persons not herein named, and that the undersigned has not directly or indirectly induced or solicited any other bidder to put in sham bid, or any other persons, firm or corporation to refrain from bidding, and that the undersigned has not in any manner sought by collusion to secure for himself an advantage over any other bidder. The undersigned also certifies that he is familiar with the various State and local laws affecting bonds, length of working days, employers liabilities, Sunday work, alien labor, domestic materials, subcontracts, etc. Bid proposals shall remain valid for a minimum of sixty (60) calendar days from the date of the bid opening.

It is also understood that the Bid price includes all applicable taxes, bond costs, license fees, etc.

Attached hereto is a list of subcontractors proposed to be employed on the project for which this Proposal is submitted.

Also attached hereto is a Bidder's Bond or Certified Cashier's Check, made payable to the City of San Clemente in the amount of \$ \_\_\_\_\_, which is not less than ten percent (10%) of the aggregate amount of this Bid.

DATED this \_\_\_\_\_ day of \_\_\_\_\_, 2015

\_\_\_\_\_  
(Proper Name of Bidder)

By: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Phone: \_\_\_\_\_

\_\_\_\_\_  
State License No.  
(Including Classification & Expiration Date)

Contractor's license number and expiration date stated herein are made under penalty of perjury.

By: \_\_\_\_\_

Title: \_\_\_\_\_

## LIST OF SUBCONTRACTORS

The bidder shall list below the name and location of the place of business of each subcontractor who will perform work or render services to the prime contractor in or about the construction of the work or improvement in excess of one-half of one percent (1/2%) of the prime contractor's total bid or ten thousand dollars (\$10,000) whichever is greater in accordance with the requirements of Section 4100 to 4113 inclusive of the Public Contract Code.

Substituting a subcontractor in place of a subcontractor listed in the original bid without the City's approval or subcontracting work to which no subcontractor was designated in the original bid (and was required to be designated) or other subcontracting violations, may at the City's discretion, result in cancellation of the contract or a financial penalty.

Name and Address of Subcontractor	License No.	Bid Item No.(s)	Percent of Bid Item	Percent of Total Bid

Note: Do not list alternative subcontractors for the same work.

Prime Contractor: \_\_\_\_\_



**EXPERIENCE**

Submit a brief description of the character of work previously executed, giving the location, the year in which it was done, the agency or owner, phone number and such other information as will tend to show ability to prosecute the work required by this Specification.

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**Street Rehabilitation and Slurry Seal for Avenida La Pata, Project No. 15312**

**BID INFORMATION SHEET**

The following information is requested for all contractors who provide a bid, proposal, or quote, or who are contacted by the proposed prime contractor. This information should be submitted with your bid, proposal, or quote. If you are the apparent low bidder (or the second or third low bidder), the information should be submitted within four business days of the bid opening date.

Firm Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Address: \_\_\_\_\_ Fax: \_\_\_\_\_

\_\_\_\_\_

Contractors license no. and class: \_\_\_\_\_ Years in Business: \_\_\_\_\_

Is firm currently certified as a DBE under 49 CFR Part 26? YES  NO

If yes, please indicate certification status:

\_\_\_\_\_ African American \_\_\_\_\_ Hispanic American \_\_\_\_\_ Asian-Pacific Islander  
\_\_\_\_\_ Native American \_\_\_\_\_ Woman \_\_\_\_\_ Sub-continent Asian American

and DBE Certification No.: \_\_\_\_\_

Contract items or description of work provided by firm:

\_\_\_\_\_  
\_\_\_\_\_

What was your firm's Gross Annual receipts for last year?

- Less than \$1 Million
- Less than \$5 Million
- Less than \$10 Million
- Less than \$15 Million
- More than \$15 Million

**Please duplicate this form and provide information on all bidders.**

## AGREEMENT FOR CONSTRUCTION OF PUBLIC WORKS

This Agreement for Construction of Public Works (Street Rehabilitation and Slurry Seal for Avenida La Pata (Via Onda to Calle Extremo, Project No. 15312)) (the "Agreement") is made and entered into on this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, between the City of San Clemente, a California municipal corporation, (the "City") and \_\_\_\_\_ ("Contractor") (collectively referred to as the "Parties").

### RECITALS

- A. The City of San Clemente has adopted the Uniform Public Construction Cost Accounting Procedures Act (Public Contract Code § 22000 et seq.), (the "Act") and has selected Contractor pursuant to the procedures authorized by the Act.
- B. City desires to have Contractor perform and Contractor desires to provide the public works of improvement described within this Agreement.
- C. The City is entering into this contract for work to be performed, for compensation in the amount of \$\_\_\_\_\_.

### COVENANTS

Based upon the foregoing Recitals and in consideration for the mutual promises and covenants contained herein, the Parties agree as follows:

#### **SECTION 1: SCOPE OF WORK.**

Contractor agrees to perform all tasks necessary to construct and/or install or cause to be constructed and/or installed the Work identified in the Plans and Specifications for Street Rehabilitation and Slurry Seal for Avenida La Pata (Via Onda to Calle Extremo), City Project No. 15312 in accordance with the terms and conditions contained both herein and in all other Contract Documents.

#### **SECTION 2: INTENT OF CONTRACT DOCUMENTS.**

The intent of the Contract Documents is to prescribe a complete work of improvement which Contractor shall perform or cause to be performed in a manner acceptable to the Engineer and in full compliance with all codes and the terms of this Agreement. Contractor shall complete a functional or operable improvement or facility, even though the Contract Documents may not specifically call out all items of work required for the Contractor to complete its tasks, incidental appurtenances, materials, and the like. If any omissions are made of information necessary to carry out the full intent and meaning of the Contract Documents, Contractor shall immediately seek approval of the Engineer for furnishing detailed instructions. Further, prior to commencing

performance of any work hereunder, Contractor shall cooperate with and assist the City to identify and make any refinements to the description and scope of the work that may be necessary to achieve City's goals hereunder. In the event of any doubt or question arising regarding the true meaning of any of the Contract Documents or any portion thereof, reference shall be made to the Engineer whose decision thereon shall be final.

### **SECTION 3: TERMS AND CONDITIONS OF PERFORMANCE.**

All work performed under this Agreement shall comply with the current edition of that document entitled "Standard Specifications For Public Works Construction," published by Building, News, Inc. (the "Standard Specifications"), which is incorporated herein by this reference as if set forth in full, except the following provisions of the Standard Specifications are hereby amended as follows:

A. Section 1-2 of the Standard Specifications, entitled "Definitions," is hereby amended as follows:

"Agreement" - This signed Agreement for Construction of Public Works as well as all Contract Documents.

"Board" - The City Council of the City of San Clemente or its designee.

"Contract Documents" - include but are not limited to: the Contract Addenda (which pertain to the contract documents), notice inviting bids, instruction to bidders; bid (including documentation accompanying the Bid and any post-bid documentation submitted prior to the Notice of Award); when attached as an exhibit to the Contract, the Bonds; the general conditions; permits from other agencies; the Project Specifications, the Special Provisions; the Plans; the Standard Plans; Standard Specifications, Reference Specifications; and all modifications issued by City after the execution of the Contract, and all of the exhibits to this Agreement which are incorporated herein by this reference as if set forth in full.

B. Section 2-4 of the Standard Specifications entitled "Security," is hereby amended to read in its entirety as follows:

2.4 Security and Indemnity.

2-4.1 Security to Guarantee Performance and Payment.

At the time Contractor executes this Agreement, Contractor shall furnish to City bonds, letters of credit, or other security acceptable to City in City's sole and absolute discretion (hereinafter "Security Instruments") as follows:

(i) A Security Instrument securing Contractor's faithful performance

of all of the Works of Improvement in the amount of one hundred percent (100%) of the estimated construction costs (the "Faithful Performance Security Instrument").

- (ii) A Security Instrument guaranteeing the payment to subcontractors and other persons furnishing labor, materials, and/or equipment with respect to the Works of Improvement in an amount equal to one hundred percent (100%) of the estimated construction costs (the "Labor and Materials Security Instrument").

This Agreement shall not be operative until such Security Instruments are supplied to and approved by City in accordance herewith.

#### 2-4.2 Security Instrument For Warranty Period.

In addition to the Security Instruments referenced in paragraph 2-4.1 above, prior to the City Council's acceptance of the Work and recordation of a Notice of Completion, Contractor shall deliver a Security Instrument warranting the accepted Work for a period of one (1) year following the date of acceptance (the "Warranty Period"), with the amount of such Security Instrument to be equal to twenty-five percent (25%) of the estimated construction cost or a suitable amount determined by the Engineer (the "Warranty Security Instrument"). In lieu of delivering a Warranty Security Instrument, Contractor may elect to utilize its Faithful Performance Security Instrument to warrant the Work for the Warranty Period, in which case the City shall continue to hold the Faithful Performance Security Instrument for the Warranty Period. Contractor shall be deemed to have elected to utilize its Faithful Performance Security Instrument for the Warranty Period if Contractor has not delivered a Warranty Security Instrument to the City prior to the City Council's acceptance of the Work.

#### 2-4.3 Release of Security Instrument.

City shall release the Faithful Performance Security Instrument upon Contractor's written request after acceptance of the Work and Contractor's delivery of the Warranty Security Instrument. City shall release the Labor and Materials Security Instrument upon Contractor's written request after the Work has been accepted and after passage of the time within which lien claims are required to be made pursuant to Article 3 (commencing with Section 3114) of Chapter 2 of Title 15 of Part IV of Division 3 of the California Civil Code. If any lien claim or claims have been timely filed, City shall hold the Labor and Materials Security Instrument until such claim or claims have been resolved, Contractor has provided a statutory bond, or otherwise as required by applicable law. City shall release the Warranty Security Instrument upon Contractor's written request after the expiration of the warranty period, provided no claims are outstanding at that time regarding defective work.

#### 2-4.4 Form of Security Instruments.

All Security Instruments shall meet the minimum requirements of Code of Civil Procedure Section 995.660 as specified below, and otherwise shall be in a form acceptable to the City Attorney:

- (i) Any insurance company acting as surety shall be authorized to transact surety insurance in the state of California, shall demonstrate to the satisfaction of the City that its assets exceed its liabilities in an amount equal to or in excess of the amount of the bond, and shall provide to the City the following:
  - (a) The original, or a certified copy of the unrevoked appointment, power of attorney, bylaws, or other instrument entitling or authorizing the person who executed the bond to do so;
  - (b) A certified copy of the certificate of authority of the insurer issued by the Insurance Commissioner;
  - (c) A certificate from the clerk of the Orange County Clerk of the Court that the certificate of authority of the insurer has not been surrendered, revoked, canceled, annulled, or suspended or, in the event that it has, that renewed authority has been granted; and
  - (d) Copies of the insurer's most recent annual statement and quarterly statement filed with the Department of Insurance;
- (ii) Payments under the Security Instrument shall be required to be made (and, with respect to bonds, litigation shall be required to be instituted and maintained) in the County of Orange, State of California;
- (iii) Each Security Instrument shall have a minimum term of one (1) year after the deadline for Contractor's completing the Work, in accordance with paragraph 2.1 herein;
- (iv) The Security Instrument shall reference Contractor's obligations under this Agreement, shall be irrevocable, and shall include as an additional secured obligation the responsibility to compensate City for all of City's attorney's fees and litigation expenses reasonably incurred in enforcing its rights under the Security Instrument.

#### 2-4.5 Indemnity.

Contractor shall indemnify, defend, and hold harmless City and City's officers, employees, and agents and the Redevelopment Agency of the City of San Clemente and its officers, employees, and agents from and against any and all claims, demands, liabilities, losses, obligations, damages, causes of action, or any proceedings of any kind or nature, including without limitation worker's compensation claims, in any way arising or alleged to arise out of Contractor's performance or failure to perform the Work described herein. Said indemnity obligation shall apply to personal injury, death, property damage, economic loss, and any other monetary damage or penalty to which City may be subjected, whether or not the injury, damage, or loss is covered by insurance.

C. Section 6-8 of the Standard Specifications, entitled "Completion and Acceptance," is hereby amended to read in its entirety as follows:

#### 6-8 Completion and Acceptance, Defective Work.

##### 6-8.1 Completion.

Contractor shall make an initial request for final inspection after initial completion of the Work. After inspection, the Engineer will inform the Contractor, in writing, of all items found by Engineer to be incomplete or not in compliance with this Agreement. After the Contractor has completed these items, the procedure for final inspection shall then be the same as specified above for the Contractor's initial request for final inspection. If after two (2) "final" inspections, items are found by Engineer to be incomplete or not in compliance with this Agreement or any of the requirements contained or referenced herein, City may require Contractor, as a condition of City performing further field inspections, to submit to the Engineer a detailed written statement of the work performed subsequent to the date of the previous inspection at which such items were found to be incomplete or not in compliance with this Agreement.

The Parties shall follow the above steps until such time as Engineer determines that the Work has been satisfactorily completed in accordance with all terms and condition of this Agreement. Upon such determination, City shall order recordation of the Notice of Completion.

##### 6-8.2 Acceptance.

Thirty-five (35) days after the Notice of Completion is recorded (or in the event of any lien claims are filed against the Project arising out of Contractor's activities hereunder, on such date Contractor has finally satisfied, discharged, or obtained a release of such claim), City shall accept Contractor's Work.

6-8.3 Defective Work.

Contractor shall repair, reconstruct, replace or otherwise make acceptable any and all Work found by Engineer to be defective or not in accordance with the Agreement. Final acceptance of the Work shall not constitute a waiver by City of any defective work subsequently discovered.

D. Section 7-2.2 of the Standard Specifications, entitled "Labor," is hereby amended to add, to the end of the first paragraph:

The Contractor shall not employ, or permit to be employed, any undocumented aliens (i.e., persons who are not citizens or nationals of the United States) to perform any portion of the Work.

E. Section 7-3. of the Standard Specifications, entitled "Liability Insurance," is hereby amended to read in its entirety as follows:

Contractor shall furnish to City a policy or certificate of liability insurance indicating compliance with the following minimum insurance requirements within ten (10) working days after Contractor's receipt of the Notice of Award and Contractor shall maintain such insurance in effect during the entire term of this Agreement:

A. Workers' compensation insurance as required under Section 7-4 of the Standard Specifications.

B. Comprehensive general liability, personal injury and property damage liability, contractual liability, independent contractor's liability, and automobile liability insurance, with minimum combined liability limits of One Million Dollars (\$1,000,000) per occurrence for all covered losses, and Two Million Dollars (\$2,000,000) in the aggregate. Any deductible or self-insured retention in excess of Five Thousand Dollars (\$5,000) shall be declared to the City and requires the prior approval of the City's Risk Manager. Each such policy of insurance shall:

- (1) Be issued by a good and solvent insurance company reasonably acceptable to the City which company holds a current policyholder's alphabetic and financial size category rating of not less than A VIII, according to the current Best's Key Rating Guide or a company of equal financial stability which is approved in writing by City's Risk Manager;
- (2) Name and list on the Certificate of Insurance and the Endorsement as additional insureds the City and its officers, employees, and



agents and, if the City's Risk Manager so requires, the City of San Clemente Redevelopment Agency and its officers, employees, and agents (an endorsement shall accompany the insurance certificate naming such additional insureds);

- (3) Specify that it acts as primary insurance and that no insurance held or owned by City (or if applicable, the Redevelopment Agency) shall be called upon to cover a loss under said policy;
- (4) Contain a clause substantially in the following words: "It is hereby understood and agreed that this policy of insurance may not be cancelled or materially changed except upon thirty (30) days prior written notice to City of such cancellation or material change as evidenced by a return receipt for a registered letter;"
- (5) Cover the operations of Contractor pursuant to the terms of this Agreement; and
- (6) Be written on an occurrence and not a claims made basis.

Except as provided for in Subsection 6-10 of the Standard Specifications, Contractor shall save, keep, and hold harmless City, its officers, and agents from all damages, costs or expenses in law or equity that may at any time arise or be set up because of damages to property, or a personal injury received by reason of or in the course of performing work, which may be caused by any willful or negligent act or omission by Contractor, any of Contractor's employees or agents, or any subcontractor. City will not be liable for any accident, loss or damage to the Work prior to its completion and acceptance except as provided for in Subsection 6-10.

The cost of this insurance shall be included in Contractor's bid.

F. Section 7-8.6 of the Standard Specifications, entitled "Water Pollution Control," is hereby amended to read in its entirety as follows:

7-8.6 Water Pollution Control.

If applicable, Contractor shall be required, at its sole expense, to obtain coverage under the NPDES General Construction Permit and comply with all terms and conditions thereto. Information regarding this permit can be obtained from the State Water Board's website at:

[http://www.swrcb.ca.gov/water\\_issues/programs/stormwater/construction.shtml](http://www.swrcb.ca.gov/water_issues/programs/stormwater/construction.shtml).

In addition, the Contractor shall comply with the City of San Clemente's Municipal Code Section 13.40, entitled Storm Water Runoff Control Ordinance. Contractor is required to employ and maintain Best Management Practices

(BMPs) consistent with the Storm Water Runoff Control Ordinance, Sections 7 & 8 of the City's Local Implementation Plan, and the most recent version of the Countywide Construction Guidance Manual. All reference documents are available on the City's website or by calling the Environmental Section at (949) 361-6143.

G. Section 9-3.2 of the Standard Specifications, entitled "Partial and Final Payment," is hereby amended to read in its entirety as follows:

9-3.2 Partial and Final Payment.

As a condition of receiving monthly progress payments, Contractor shall, prior to the tenth of the month, submit to City an invoice specifying the work performed during the previous month and Contractor's allocated dollar value for that work.

Within fifteen (15) days of receipt of the invoice, the Engineer shall make an approximate measurement of the work performed to the closure date and as basis for making monthly payments, estimate its value based on Contract Unit Prices or as provided for in Section 9-2 of the Standard Specifications (the "Progress Estimate"). When the Work has been satisfactorily completed, the Engineer will determine the quantity of work performed and prepare the final estimate.

Within fifteen (15) business days of the City's approval of the Engineer's Progress Estimate, Contractor shall receive partial payments in the amount of the Progress Estimate less five percent (5%) which will be deducted and retained by the City. Notwithstanding the foregoing, the total retention proceeds retained by the City shall not exceed five percent (5%) of the total Contract amount.

Notwithstanding anything herein to the contrary, in the event any of Contractor's insurance as required pursuant to this Agreement or any of the Contract Documents expires during the term of this Agreement, City shall withhold any payment due to Contractor hereunder until such time as Contractor obtains replacement insurance that meets all of the applicable requirements hereunder and submits certificates and endorsements evidencing such insurance to City.

Notwithstanding anything herein to the contrary, (i) the limitations on retention shall not apply to amounts withheld or deducted from payment as liquidated damages pursuant to Section 6-9 of the Standard Specifications; and (ii) no progress payment made to the Contractor or its sureties will constitute a waiver of liquidated damages under Section 6-9 of the Standard Specifications.

Contractor shall not be entitled to any payments over and above the Unit Price or the total Contract Price.

As provided in Sections 10263 and 22300 of the California Public Contract Code, the Contractor may substitute securities for any monies withheld by the Agency to ensure performance under the Contract.

**SECTION 4: MISCELLANEOUS.**

**4.1 No Duty to Third Parties.**

This Agreement is intended to benefit only the Parties hereto. This Agreement is not intended to and does not create any liability or obligation or duty to any person, group, or entity not a Party to this Agreement. Neither City nor Contractor intend to create any third party beneficiary rights in this Agreement in any Contractor, Subcontractor, member of the general public, or any other person, group or entity.

**4.2 Notice.**

Every notice, demand, request, or other document or instrument delivered pursuant to this Agreement shall be in writing, and shall be either personally delivered, sent by Federal Express or other reputable overnight courier, sent by facsimile transmission with the original subsequently delivered by other means, or sent by certified United States mail, postage prepaid, return receipt requested, to the addresses set forth below, or to such other address as a Party may designate from time to time:

To City:

City of San Clemente  
City Hall  
100 Avenida Presidio  
San Clemente, CA 92672  
Attention: City Manager  
cc: City Engineer  
Telephone: (949) 361-8322  
Fax: (949) 361-8285

To Contractor:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**4.3 Rights and Remedies are Cumulative.**

Except with respect to rights and remedies expressly declared to be exclusive in this Agreement, the rights and remedies of the Parties are cumulative and the exercise by either Party of one or more of such rights or remedies shall not preclude the exercise by it, at the same or different times, of any other rights or remedies for the same default or any other default by the other Party.

**4.4 Legal Action.**

Any Party may take legal action, in law or in equity, to cure, correct or remedy any default, to recover damages for any default, to compel specific performance of this Agreement, to obtain injunctive relief, or to obtain any other remedy consistent with the purposes of this Agreement.

**4.5 No Partnership.**

The Parties to this Agreement renounce the existence of any form of joint venture or partnership between them and agree that nothing contained in this Agreement or in any document executed in connection with this Agreement shall be construed as making the Parties joint venturers or partners.

**4.6 Entire Agreement.**

This Agreement constitutes the entire understanding and agreement of the Parties and integrates all of the terms and conditions mentioned herein or incidental hereto with respect to the subject matter hereof, and supersedes all negotiations or previous agreements between the Parties with respect to all or part of the subject matter hereof.

**4.7 Amendment.**

This Agreement may be amended in writing at any time by the mutual consent of the Parties. No amendment shall have any force or effect unless executed in writing by the Parties.

**4.8 Objective Construction.**

This Agreement reflects the negotiated agreement of the Parties. Accordingly, this Agreement shall be construed as if all Parties jointly prepared this Agreement and no presumption against one Party or the other shall govern the interpretation or construction of any of the terms of this Agreement by virtue of the preparation or authorship of this Agreement.

**4.9 Waivers.**

All waivers of the provisions of this Agreement shall be in writing and signed by the appropriate authorities of the Party to be charged. No waiver shall be effective unless it is in

writing and signed as required herein.

**4.10 Severability.**

If any term, provision, covenant, or condition of this Agreement is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions of the Agreement shall continue in full force and effect, unless and to the extent that the rights and obligations of any Party would be materially altered or abridged by such interpretation.

**4.11 Applicable Law.**

This Agreement shall be construed and enforced in accordance with the laws of the State of California. Any and all actions filed by any Party to enforce any rights or obligations created by this Agreement shall be filed in a court of competent jurisdiction in the State of California.

**4.12 Attorneys' Fees.**

In the event of any legal action arising out of: (1) disputes concerning whether the Work performed conforms with the Plans and Specifications; (2) disputes concerning whether the Work performed is defective; or (3) disputes concerning enforcement of warranty obligations, the prevailing Party in such action shall be entitled to recover its reasonable costs and expenses, including without limitation reasonable attorneys' fees and costs. Attorneys' fees shall include attorneys' fees on any appeal, and in addition, a Party entitled to attorneys' fees shall be entitled to all other reasonable costs for investigating such action, including the taking of depositions and discovery, and all other necessary costs incurred in the litigation. All such fees shall be deemed to have accrued on commencement of such action and shall be enforceable whether or not such action is prosecuted to final judgment.

**4.13 Reasonableness.**

Each of the Parties and its agents, employees, attorneys, and consultants shall act reasonably in exercising any rights and taking any actions pursuant to this Agreement.

**4.14 Corporate Authority.**

The persons executing this Agreement on behalf of the Parties hereto warrant that they are duly authorized to execute this Agreement on behalf of said Parties and that, by so executing this Agreement, the Parties hereto are formally bound to the provisions of this Agreement.

**SECTION 5: LABOR CODE COMPLIANCE.**

**5.1 Registration Requirement.**

Pursuant to Labor Code section 1771.1, no contractor or subcontractor may be listed on a

bid proposal for a public works project unless registered with the Department of Industrial Relations. Furthermore, Contractor is hereby notified that no contractor or subcontractor may be awarded a contract for public work on a public works project unless registered with the Department of Industrial Relations. By signing this Agreement Contractor certifies that Contractor, and all subcontractors, hold current and valid registrations with the Department of Industrial Relations.

**5.2 Compliance Monitoring.**

Pursuant to Labor Code section 1771.4, Contractor is hereby notified that this project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

End of Text

CITY OF SAN CLEMENTE

By: \_\_\_\_\_

Its: \_\_\_\_\_

Dated: \_\_\_\_\_, 20\_\_

ATTEST:

\_\_\_\_\_  
CITY CLERK of the City of  
San Clemente, California

Approved as to form  
RUTAN & TUCKER, LLP:

\_\_\_\_\_  
City Attorney

APPROVED AS TO AVAILABILITY  
OF FUNDING

By: \_\_\_\_\_  
Finance Authorization

\_\_\_\_\_  
("CONTRACTOR")

License Number: \_\_\_\_\_

By: \_\_\_\_\_

Its: \_\_\_\_\_

Dated: \_\_\_\_\_, 20\_\_

WORKER'S COMPENSATION INSURANCE CERTIFICATION

Street Rehabilitation and Slurry Seal for Ave. La Pata (Via Onda to Calle Extremo)  
City Project No. 15312

Sections 1860 and 1861 of the California Labor Code require every Contractor to whom a Public Works Agreement is awarded to sign and file with the Awarding Body the following statement:

"I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract."

Dated: \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
Contracting Firm

By: \_\_\_\_\_

\_\_\_\_\_  
Title

\_\_\_\_\_  
Address  
\_\_\_\_\_



CERTIFICATE THAT NO WORKERS' COMPENSATION INSURANCE  
IS REQUIRED (ALTERNATE /IF APPLICABLE)

I hereby certify that Contractor has no employees, that no employees will perform services with respect to the Project that it is the subject of this Agreement, and, accordingly, that no workers' compensation insurance need be maintained pursuant to applicable provisions of law. Contractor hereby agrees to indemnify, defend, and hold harmless the City of San Clemente and all of its officials, employees, and agents from and against any and all claims, liabilities, and losses relating to personal injury or death, economic losses, and property damage arising out of Contractor's failure to provide such worker's compensation insurance.

Dated: \_\_\_\_\_, 20\_\_

\_\_\_\_\_  
Contracting Firm

By: \_\_\_\_\_

\_\_\_\_\_  
Title

\_\_\_\_\_  
Address

\_\_\_\_\_

WARRANTY FORM

Street Rehabilitation and Slurry Seal for Avenida La Pata (Via Onda to Calle Extremo),  
City Project No. 15312

We hereby guarantee to the City of San Clemente the work that we have constructed for a period of one (1) year after the date of acceptance.

We agree that if any of the equipment should fail due to any reason other than improper maintenance or improper operation, if any pipe or appurtenances should develop leakage, or if any settlement of fill or backfill occurs, or should any portion of the work fail to fulfill any of the requirements of the Specifications, we will, within five (5) days after written notice of such defects, commence to repair or replace the same together with any other work which may be damaged or displaced in so doing.

In the event of our failure to comply with the above mentioned conditions within a reasonable time after being notified, or should the exigencies of the case require repairs or replacements to be made before we can be notified or respond to notification, we do hereby authorize the City of San Clemente to proceed to have the defect repaired and made good at our expense, and we will pay the cost therefor upon demand.

The warranty provided herein shall not be in lieu of, but shall be in addition to any warranties or other obligations otherwise imposed by the Contract Documents and by law.

Dated: \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
Contracting Firm

By: \_\_\_\_\_

\_\_\_\_\_  
Title

\_\_\_\_\_  
Address

\_\_\_\_\_

## GENERAL PROVISIONS

### **Street Rehabilitation and Slurry Seal for Avenida La Pata, Project No. 15312**

Reference is hereby made to "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", 2012 edition, including all supplements thereto, for General Provisions, and same are by such reference incorporated herein and made a part of the Specifications the same as though fully set forth hereunder.

#### Contract Bonds

Before execution of the Contract, the Contractor shall furnish a Faithful Performance Bond in the amount of 100% of the contract price and a Labor and Material Bond in the amount of 100% of the contract price as provided in Section 2-4 of said Standard Specifications for Public Works Construction.

In addition, as stated herein under "Guarantees", at the time of completion of the project and prior to acceptance, a warranty bond in the amount of 25% of the contract price shall be required for a period of one (1) year after City recordation of Notice of Completion.

#### Liability Insurance

Before execution of the contract, the Contractor shall furnish the Agency who is named insured or is named as additional insured and the City of San Clemente Redevelopment Agency when appropriate, with an endorsement in which the Agency is named insured or is named as additional insured with the Contractor. The Certificate of Insurance and the Endorsement shall state the following: "The City of San Clemente, it's elected officials, officers, agents, and employees are added as insureds." Provisions shall be as specified in Section 7-3 of said Standard Specifications for Public Works Construction, with the exception that the coverage shall provide the following minimum limits:

Bodily Injury:	\$500,000 each person \$1,000,000 each occurrence \$1,000,000 aggregate products & completed operations
Property Damage:	\$100,000 each occurrence \$250,000 aggregate

A combined single limit policy with aggregate limits in the amount of \$2,000,000 will be considered equivalent to the required minimum limits.

A certificate of insurance must be issued by companies that hold a current policy holder's alphabetic and financial size category rating of not less than A VIII, according to the current Best's Key Rating Guide or a company of equal financial stability that is approved by the City's Risk Manager for all coverages except surety.

#### Workmen's Compensation Insurance

Before execution of the Contract, the Contractor shall file with the City a certification regarding compliance with Section 3700 of the Labor Code. The Contractor shall also comply with Section 3800 of the Labor Code by maintaining in full force and effect for the duration of the Contract complete Workmen's Compensation Insurance and shall furnish a Certificate of Insurance to the City before execution of the Contract.

#### Time of Commencement of Work

Unless otherwise provided, the Contractor shall commence work within fifteen (15) days from the date of execution of the Contract and shall diligently prosecute the work to completion.

#### Time of Completion

The Contractor shall complete the work within the time set forth in the Bid Form and the Contract unless an authorized time extension has been granted as provided herein.

#### Extensions of Time

Extensions of time may be granted for due cause upon written request as set forth in Section 6-6 of said Standard Specifications for Public Works Construction.

#### Wage Rates

- (a) Bidders are hereby notified that pursuant to the provisions of the Labor Code of the State of California, the State Director of Industrial Relations, in accordance with the terms of the Southern California Master Labor Agreement, has ascertained the prevailing rate of per diem wages, including holidays, overtime, health and welfare, pensions, retirement, vacation pay, apprenticeship programs and other prevailing bona fide fringe benefits as fixed by the Director of the Department of Industrial Relations. The Contractor and his subcontractors shall comply with said wage determinations and standards applicable to the work to be done.
- (b) Pursuant to Section 1773 of the Labor Code, the general prevailing wage rates in the county, or counties, in which the Work is to be done have been determined by the Director of the California Department of Industrial Relations. These wages are set forth in the General Prevailing Wage Rates for this project, available at the California Department of Industrial Relations' website at: <http://www.dir.ca.gov>

### Employment of Apprentices

Attention is directed to the provisions in Sections 1776, 1777.5 (Chapter 1411, Status of 1968), and 1777.6 of the Labor Code concerning the employment of apprentices by the Contractor or subcontractor under him.

Section 1777.5, as amended, requires the contractor or subcontractor employing tradesmen in any apprenticeable occupation to apply to the joint apprenticeship committee nearest the site of the public works project and which administers the apprenticeship program in that trade for a certificate of approval. The certificate will also fix the ratio of apprentices to journeymen that will be used in the performance of the contract. The ratio of apprentices to journeymen in such cases shall not be less than one to five, except:

- a. When employment in the area of coverage by the joint apprenticeship committee has exceeded an average of fifteen (15) percent in the ninety (90) days prior to the request for certificate; or
- b. When the number of apprentices in training in the area exceeds a ratio of one to five; or
- c. When the trade can show that it is replacing at least 1/30 of its membership through apprenticeship training on an annual basis statewide or locally; or
- d. When the Contractor provides evidence that he employs registered apprentices on all of his contracts on an annual average of not less than one apprentice to eight journeymen.

The Contractor is required to make contributions to funds established for the administration of apprenticeship programs if he employs registered apprentices or journeymen in any apprenticeable trade on such contracts and if other contractors on the public works site are making such contributions. The contractor and any subcontractor under him shall comply with the requirements of Section 1777.5 and 1777.6 in the employment of apprentices.

Information relative to apprenticeship standards, wage schedules and other requirements may be obtained from the Director of Industrial Relations, ex officio the Administrator of Apprenticeship, San Francisco, California, or from the Division of Apprenticeship Standards and its branch office.

### Liquidated Damages

Failure of the Contractor to complete work within the time allowed will result in damages being sustained by the Agency. Unless otherwise provided, the Contractor will pay to the Agency five hundred dollars (\$500.00) for each day of delay in finishing time work in excess of time specified for completion, plus any authorized time extensions, all as provided in Section 6-9 of said Standard Specifications for Public Works Construction. The \$500.00 per day liquidated damages provision is not intended to cover actual expenses reasonably and necessarily incurred

by the City in retaining other contractors, inspectors, engineering consultants, etc., as a result of any delay by the Contractor.

### License

Prior to beginning work, the Contractor shall possess a City Business License. For additional information, contact the City of San Clemente Business License Division at (949) 361-6164. Said license is not to be in lieu of, but rather in addition to, other required licenses appurtenant to the work.

### Payment

Payment for all work, as detailed on the Plans and in these Specifications, shall be made on a unit basis as set forth on the Bid Form.

Partial payments will be made once each month upon the request of the Contractor and upon submittal of a progress billing at least five working days prior to the first City Council meeting of each month. Partial payments shall be 95% of the unit price value of all work installed and completed during each partial payment period.

Upon completion of all components of the project and final acceptance by the Engineer, the City agrees to pay the Contractor 95% of the total contract price, less previous partial payments, with the remaining 5% paid thirty-five (35) days after the Notice of Completion's recordation date by the County, following approval by the City Council.

### Substitution of Securities

Upon the Contractor's request, the City will make payment of funds withheld from progress payments pursuant to the requirements of Government Code Section 14402 if the Contractor deposits in escrow with a bank acceptable to the City, securities eligible for the investment of State funds under Government Code Section 16430 or bank or savings and loan certificates of deposit, upon the following conditions:

1. The Contractor shall bear the expense of the City and the Escrow Agent in connection with the escrow deposit made.
2. Securities or certificates of deposit to be placed in escrow shall be of value at least equivalent to the amounts of retention to be paid to the Contractor pursuant to this section.
3. The Contractor shall enter into an escrow agreement satisfactory to the City, which agreement shall include provisions governing inter alia:
  - a. the amount of securities to be deposited,

- b. the providing of powers of attorney or other documents necessary for the transfer of the securities to be deposited,
- c. conversion to cash to provide funds to meet defaults by the Contractor including, but not limited to, termination of the Contractor's control over the work, stop notices filed pursuant to law, assessment of liquidated damages or other amounts to be kept or retained under the provisions of the contract,
- d. decrease in value of securities on deposit,
- e. the termination of the escrow upon completion of the contract.

4. The Contractor shall obtain the written consent of the surety to such agreement.

#### Guarantees

A Faithful Performance Warranty Bond in the amount of twenty-five percent (25%) of the contract price shall be required for a period of one (1) year after City recordation of Notice of Completion.

Unless otherwise specified, the Contractor shall guarantee that the work performed under the Contract will be free from defects of workmanship and materials for a period of one (1) year from the date of acceptance of the work and shall guarantee to assume responsibility for costs incurred for repair or replacement of any defects in materials within that period of time not due to the City's or other's improper or careless operation of the structures or equipment. Whenever in these Specifications written guarantees are requested, or different period of time are specified, the Contractor shall guarantee the products or installations therein described for the time specified and no further guarantee shall be required.

If defective material or workmanship is discovered in the work requiring repairs to be made under this guarantee, all such repair work shall be done by and at the expense of the Contractor within five (5) working days after written notice has been given to the City. Should the Contractor fail to repair such damage within five (5) working days thereafter, the City may make the necessary repairs and charge the Contractor with the actual cost of all labor and material required. In emergencies demanding immediate attention, the City shall have the right to repair the defect or damage and charge the Contractor with the actual cost of all labor and material required.

#### Water

The Contractor will be responsible for all costs, permits and fees for providing water for the construction of this project. Hydrant meter installation can be arranged by contacting the City's Water Division, 380 Avenida Pico, San Clemente, (949) 366-1553, ext. 200. The Contractor is responsible for:

- a. depositing \$950 per meter, \$50 of which is non-refundable;
- b. paying the meter rental rate of \$3 per day per meter; and
- c. paying for water at the current rate, approximately \$2.17 per 100 cubic feet.

The City encourages the Contractor to make arrangements to purchase recycled water from independent sources and/or reclaimed water from the City.

#### Street Cleaning, Cleanup & Dust Control

All surplus materials shall be removed from the site of the work immediately after completion of the work.

Failure of the Contractor to comply with the Engineer's dust control orders may result in an order to suspend work until the condition is corrected and, after giving notice to the Contractor, the Engineer may order the condition corrected by others. All costs thus incurred shall be deducted from the amount to be paid to the Contractor. No additional compensation will be allowed as a result of such suspension.

No separate payment will be made for any work performed nor material used to control dust resulting from the Contractor's performance of the work or from public traffic, either inside or outside right-of-way. Full compensation for such dust control will be considered to be included in the prices paid for the various items of work involved.

#### Project Schedule & Commencement of Work

Prior to the commencement of construction, arrangements will be made for a meeting between the Contractor, the Engineer, and the utility companies' representatives. The purpose of this meeting is to organize the activities of the Contractor within the limits of this contract, review scheduling, discuss construction methods and clarify inspection procedures. At this meeting, the Contractor will be required to submit for approval by the Engineer a plan with complete detailed construction schedule showing the number or working days required to complete each portion of the project.

#### Traffic Control

For the protection of traffic in public or private streets and ways, the Contractor shall provide, place and maintain all necessary barricades, traffic cones, delineators, warning signs, lights and other safety devices in accordance with the requirements of the "Manual of Warning Signs, Lights and Devices for Use in Performance of Work Upon Highways", as issued by the State of California, Department of Public Works, Division of Highways and "Work Area Traffic Control Handbook" latest edition, as issued by American Public Works Association. The Contractor shall take all necessary precautions for the protection of the work and the safety of the public. All barricades and obstructions shall be illuminated at night, and all lights shall be kept burning from sunset until sunrise. White reflective bands shall be placed on all cones and delineators at night. The Contractor shall station such guards or flagmen and shall conform to such special



safety regulations relating to traffic control as may be required by the public authorities within their respective jurisdictions. All signs, signals and barricades shall conform to the requirements of Subpart G of OSHA Safety and Health Standards for Construction and Standard Specification Section 7-10.3.

It is the City's requirement that through traffic shall be maintained at all times. The only exception is that through traffic on Ave. La Pata will be allowed to be detoured onto Ave. Pico during the cold planning and paving of the Ave. La Pata / Av.e Pico intersection. Each travel lane shall be a minimum 11' wide. Travel lanes shall be maintained on pavement and shall remain unobstructed. Access to driveways shall be required at all times.

The Contractor shall provide qualified flagmen with appropriate equipment and signs to direct traffic as needed to the satisfaction of the City Inspector. If flag men are required to direct traffic, communication devices such as radios, CB, etc. shall be provided to them by contractor. Temporary crosswalks shall be provided per the WATCH manual. However, if the Engineer, or his designee, determines that it is necessary to close and detour traffic around the site, the Contractor shall provide all necessary requirements for traffic control, including signs, barricades and flashers necessary to close/detour traffic around site as directed by the Engineer.

At least one week prior to construction the Contractor shall post signs at the beginning and end of each street construction section which will be affected by project construction. The distance between the signs, type of signs, wording, and method of mounting for signs indicating business hours, parking availability and directions as well as speed limit shall be approved by the Engineer. The sign shall be readable to traffic from a minimum distance of 75 feet. All the signs shall be removed from the site after completion of construction activities. In addition to the above, flashing arrow boards shall be used when working on any portion of the street, as directed by the City and required herein. Illuminated message boards are also required to be used on the project, with messages as approved by the City and changed as needed. If applicable, all provisions of the Caltrans encroachment permit are herein also incorporated into the requirements of these provisions.

The Contractor shall maintain a 24-hour emergency service to remove, install, relocate, and maintain warning devices and shall furnish to the authority, names and telephone numbers of three persons responsible for this emergency service. In the event these persons do not promptly respond when notified, or it becomes necessary to call other forces to accomplish emergency service, the Contractor will be held liable for any costs incurred. These costs will be deducted from the moneys due to the Contractor.

**Equipment and materials storage will be allowed only within the designated construction lane closure limits during night-time construction hours only.**

**No other streets are allowed to be used. All trucks and equipment shall be removed within 24 hours after paving is completed. Turning around in private streets or driveways is prohibited.** All existing permanent traffic control signs, barricades and devices shall remain in

effective operation unless a substitute operation is arranged for and approved as a portion of vehicular traffic control above.

Prior to the start of each work day, the Contractor shall perform all necessary work incidental to and commensurate with the proper signing, detouring, barricading, etc., heretofore and hereinafter specified that is required for that particular day's schedule of operations. No construction shall be permitted until such signing and detouring operations have been completed.

The Contractor shall submit detailed Traffic Control Plans to the City Traffic Engineer for approval within five (5) working days after receipt of Notice to Proceed. The plan(s) shall show the proposed phasing and traffic control for each phase. Locations of detour signing on all intersections and adjacent streets along the detour route shall be shown. The City will approve or comment and return the traffic control plan to the Contractor for revisions within eight (8) working days after each receipt. The Contractor shall respond to the City's comments within three (3) working days by resubmitting revised traffic control plans. The revised plans shall comply with all City comments without exceptions. The Contractor shall notify and furnish copies of the approved Pedestrian and Traffic Control / Detour Plans to the Public Works, Fire and Sheriff Departments. All costs associated with preparation of the Pedestrian and Traffic Control / Detour Plans shall be included in the lump sum unit price as shown on the project bid form.

The Contractor shall provide four portable changeable message signs for use on the project. The City will determine the exact placement locations and will provide the messages to be programmed into the boards. Messages shall be updated as necessary at no additional cost. Payment for these message boards will be made on a per each unit bid price. The signs shall be delivered to the project one week prior to beginning construction and remain on the project until the end of construction activities, including the completion of punch list items.

If temporary delineation is required, Contractor shall provide temporary delineation as directed or approved at no additional expense to the City. Temporary delineation shall include sandblasting of conflicting markings; installation and removal of temporary centerline or lane lines, detour signing, barricading; and replacement of traffic lines and markings in their proper locations upon termination of the detour. Temporary striping required for traffic control during construction shall be placed and removed by the Contractor by using wet nozzle sandblasting methods. Blackening of striping would be allowed if the pavement is to be reconstructed as part of the project. Sandblasting of existing and/or temporary striping is required where no pavement removal is anticipated. If temporary striping is utilized on the final lift of the new pavement, traffic striping tape shall be used.

Contractor shall use illuminated or reflective warning/construction signs at appropriate locations for the project and/or as directed by the Engineer. Contractor shall also use flashing arrow boards at lane closure tapers in addition to other delineation.

Should the Contractor not furnish and maintain warning and protective measures as stated above, the Engineer will direct attention to the existence of a hazard, and necessary warning and

protective measures shall be furnished, installed and maintained by the Contractor immediately. Continued failure to furnish and maintain warning and protective measures by the Contractor will result in the discontinuance of all work until such time as the Engineer deems that appropriate steps have been taken by the Contractor to correct the situation. Should the Engineer fail to point out the inadequacy of warning and protective measures, such action on the part of the Engineer shall not relieve the Contractor from the responsibility for public safety or abrogate his obligation to furnish and pay for these devices.

Contractor shall at all times provide sufficient safety traffic devices. No open trench will be left overnight without being completely surrounded with an approved six (6) foot fence. When the situation warrants it, the Contractor shall provide flagmen to direct the traffic.

In addition to compliance with Standard Specification Section 7-10, the Contractor shall:

- Provide vehicle access to all driveways at all times, unless approved otherwise.
- All valve boxes, hand holes, and manholes shall be lowered to allow traffic flow during construction, prior to commencement of the grinding work. It is the responsibility of the Contractor to coordinate all the activities pertaining to this task with other agencies involved.
- Provide any temporary delineation, as required. Where existing delineation is obscured, damaged, removed, or reflectivity reduced; or where detours or temporary traffic lanes have been created through the construction zone, the Contractor shall place and maintain temporary delineation until permanent striping is placed.
- Provide temporary traffic re-striping at the conclusion of any working day for any centerline or lane line which is obliterated by construction for a distance longer than 200 feet.
- Furnish, install, maintain and remove all traffic controls, signs, barricades, lights and devices required for traffic and pedestrian control, and, in addition, shall furnish all flagmen necessary for the safety of traffic and pedestrians through the site.

The Contractor shall distribute written notice to all residents and businesses 24 hours in advance if driveway access is impacted for any length of time. The Contractor shall notify the businesses and residents impacted by his operation in writing, in advance. All written notification shall be approved by the City prior to distribution.

The Contractor shall coordinate efforts and cooperate with the Orange County Transit District as needed to maintain bus schedules and service.

The Contractor shall notify the trash pick-up company, CR&R (949) 240-0446, of the schedule of work and the limitation of access.

The Contractor shall install all pavement markings and traffic striping within 24 hours following final asphalt concrete paving. Replace raised pavement markers lost or damaged during construction. Crosswalks, limit lines, legends and arrows shall be in thermoplastic or equivalent. Contractor shall furnish and install all lost raised pavement markers or thermoplastic markers no sooner than seven (7) days nor later than thirty (30) days following re-striping.

The Contractor shall provide and place blue fire hydrant location pavement markers and red reflective pavement markers at all hydrant and stand pipe locations, respectively.

Off-site driveway access lanes are to be maintained in a safe, driveable condition. Temporary asphalt concrete ramps for vehicle access shall be provided such that transition from the access to street is smooth and less than 1-inch deep. Adequate clearance between vehicle undercarriage and street shall be maintained.

All open trenches within barricaded areas are to be covered with plywood during non-working hours. Steel plates are required when traffic is to be maintained.

All open trenches outside of travel lanes shall be fenced off from traffic for safety during storm drain, water, sewer or other underground improvements. The fence shall be installed on the traffic side of construction only. Fencing shall be a minimum of 6 feet in height; lightweight plastic grid is acceptable.

Payment for all of the preceding shall be included in the lump sum price bid for "Traffic Control and Temporary Striping", and no additional compensation will be allowed.

### Site Maintenance

#### Section 7-8 of Standard Specifications (add the following subsection)

If the streets are not kept clean to the satisfaction of the Engineer by manual means, the Contractor shall furnish and operate a self loading motor sweeper as noted in subsection 7-8.1. No additional compensation will be allowed.

The Contractor shall maintain the site in a clean, safe and adequate condition for best management practices (BMP's), erosion control, pedestrian and vehicular traffic. The Contractor shall provide a 24-hour per day, 7 days a week emergency number for the City to call to report neglect of the aforementioned requirements. If the City is unable to reach the Contractor, if the Contractor does not respond, or if the Engineer considers the response time too long given the nature of the problem, the City shall reserve the right to call in another Contractor or City crew to correct the problem. The Contractor shall be billed for the corrections at cost plus 15% for private services. The City's expense will be billed at cost. The need for corrective action shall be at the discretion of the Engineer.

**Erosion and sediment control devices will require modification and ongoing maintenance as the Work progresses. Placement of additional devices may be necessary to achieve those goals at various stages of the Work. Contractor shall inspect and maintain all BMP's on a daily basis. Gutters and streets shall be cleaned daily. Broken sand/gravel bags and other erosion/sediment control devices shall be replaced immediately.**

**Failure of the Contractor to comply with an Engineer's correction notice may result in an order to suspend work until the condition is corrected. No additional compensation, time nor payment, will be allowed as a result of such a suspension.**

Disposal of all refuse, excess materials and all other substances, shall be in compliance with all City, County, State and Federal rules, regulations and laws.

Under no circumstances will the dumping of raw sewage on private property or in City streets or storm drains be allowed. Should the Contractor disrupt existing sewer facilities, sewage shall be conveyed in closed conduits and disposed of in a sanitary sewer system. Sewage shall not be permitted to flow in trenches or be covered by backfill.

Any sewage spilled by the Contractor during the project shall be the responsibility of the Contractor. Any Federal, State, or local fines shall be paid by the Contractor. Fines may consist of \$10,000 per occurrence and \$10.00 per gallon.

A clean portable sanitation facility shall be provided for use by the Contractor's crews and the City staff.

Full compensation for Project Site Maintenance shall be included in unit prices bid for various items of work involved.

### Plans & Specifications

The Contractor will obtain from the Engineer, free of charge, three (3) copies of plans, general provisions, special provisions and additions to the Standard Specifications that are reasonably necessary for the execution of work. The Contractor shall, at his own expense, obtain copies of Standard Specifications and Standard Plans and Specifications of the State of California, for his general use.

If, after the contract is awarded, it appears that the work to be done or matter relative thereto is not sufficiently detailed or explained in the specifications and plans, the Contractor shall apply to the Engineer for such further explanations as may be necessary and shall conform to such explanation or interpretation as part of the contract.

All scaled dimensions are approximate. Before proceeding with any work, the Contractor shall carefully check and verify all dimensions and quantities and shall immediately inform the Engineer or his representative of any discrepancies.

### Utilities - Location

Prior to commencing any other work, the Contractor shall carefully excavate and determine precise locations and depths of all utilities, including service connections and any abandoned lines, which may affect or be affected by the Contractor's operations. This work shall be done in accordance with Section 5-1 of the Standard Specifications. It is the Contractor's responsibility to verify whether or not any existing utilities will conflict with the proposed improvement prior to constructing any part of it. The Contractor shall not be compensated for any delays or extra work brought about by his failure to perform the above-mentioned work. The Contractor shall be responsible for any damage to existing utilities. The Contractor shall be responsible for locating and working around any abandoned facilities which may be encountered.

### Relocation of Utilities

Any miscellaneous items to be relocated by the Contractor, as indicated on the plans, shall be relocated in a workmanlike manner, and all such work shall be done only at such times which are acceptable to the owner. The Contractor shall schedule his relocation work in cooperation with the owner and shall be responsible for any costs resulting from the Contractor's failure to do the work at times which are acceptable to the owner. The Contractor shall notify owners at least forty-eight (48) hours in advance of any work on any of their facilities. The Contractor shall be responsible for contacting and working in cooperation with utility companies in relocating or adjusting utilities to grade.

### Maintaining Utility Service

The Contractor shall coordinate with the businesses and residents any necessary temporary disconnection of utility services. The City shall be notified of any said temporary disconnection of utility services. All tools, equipment, personnel and materials shall be on hand to make new connections before disconnecting existing services. The connection shall be performed in a timely manner such that disruption of service is minimal.

### Survey Service

Unless otherwise provided in the Special Provisions, lines and grades for construction shall be the responsibility of the Contractor, with the following provisions:

All work under this contract shall be built in accordance with the lines and grades shown on the plans. Field survey for establishing these and for the control of construction staking, shall be under the supervision of a California-licensed Land Surveyor or by a California-licensed Civil Engineer allowed by law. Staking shall be performed on all items ordinarily requiring grade and alignment, at intervals normally accepted by the agencies and trade involved.

The Contractor shall provide a copy of the office calculations and grade sheets to the City Inspector. The Contractor shall be responsible for any error in the finished work and shall notify

the Engineer within one (1) working day of any discrepancies or design errors discovered during staking.

Unless a separate bid item is provided, the payment for surveying, construction staking, professional services, office calculations furnishing all labor, materials, equipment, tools and incidentals, and for doing all work involved shall be considered as included in the various items of work for which it is required, and no additional compensation will be allowed.

#### Permanent Survey Markers

Any ties, monuments and bench marks which are distorted or destroyed without the City's permission shall be reestablished and replaced after construction at the Contractor's expense. The Contractor and his sureties shall be liable, at Contractor's expense, for any resurvey required due to his negligence in protecting existing ties, monuments, bench marks or any such horizontal and vertical controls.

#### Working Hours

The Contractor shall perform all work required, except as noted, herein between the hours of 8:00 a.m. and 4:30 p.m., Monday through Friday, excluding City Holidays, unless approved in advance, in writing, by the City.

The Contractor shall also schedule all equipment and material deliveries to the above working hours. No equipment maintenance shall be done at night, and no trucks shall be idling engines prior to 8:00 a.m.

Request for overtime work shall be submitted to the City, 24 hours in advance. The Contractor shall reimburse the City for all costs incurred for overtime work (work exceeding 8 hours per day). The overtime work costs will be deducted from the moneys due to the Contractor.

#### Legal Address of the Engineer and the City

The official address of the City and Engineer shall be 910 Calle Negocio, #100, San Clemente, California 92673, or such other address as he may subsequently designate in written notice to the contractor.

#### Record Plans

The Contractor shall have on file, one set of contract plans, hereinafter referred to as "Plans", upon which he shall record as "As Built" all variations between the work and as originally shown on the contract plans or other Contract Documents. Said record plans shall be supplemented by any detailed sketches as necessary or directed to indicate fully the work as actually constructed. Said record plans shall be accessible at all times during the construction period and shall be delivered to the Engineer upon completion of work.

### Construction Limits and Access

The Contractor shall confine his work to the street right-of-way unless indicated otherwise on the construction plans or as directed by the Engineer.

### Indemnity

The Contractor shall hold harmless, indemnify, and defend the City, the Engineer and his Consultants, and each of their officers and employees and agents from any and all liability claims, losses, or damage arising or alleged to arise from the performance of the work described herein, but not including the sole negligence of the City and the Engineer and his Consultants, and each of their officers, employees, and agents.

### Hold Harmless

The Contractor agrees to indemnify and hold harmless the City of San Clemente against and from any and all damages to property or injuries to or death of any person or persons, including property and employees or agents of the City, and shall defend, indemnify and save harmless the City, its officers, agents and employees, from any and all claims, demands, suits, actions or proceedings of any kind or nature including worker's compensation claims, of or by anyone whomsoever, in any way resulting from or arising out of the negligent or intentional acts, errors or omissions of the Contractor or any of its officers, agents or employees.

### Permits and Inspection Costs

The Contractor may be required to obtain such permits as may be required by ordinances and regulations of the public agencies having jurisdiction over the areas in which the work is located, and he shall comply with all the terms and conditions thereof and with all lawful orders and regulations of each such public agency relating to construction operations under the jurisdiction of such agency, and no additional compensation will be allowed therefore.

Where the property of the Federal Government, the State of California, the County of Orange, the City of San Clemente, local utilities, or any other agency is affected by the work included in this contract, the Contractor shall be responsible for obtaining all necessary permits lawfully exacted by said Government, State, County, City, District, Department, or other agency during the time of performing the work affecting said property. The City will reimburse the Contractor for the actual permit costs plus 15% overhead. The Contractor shall bear all costs of traffic regulation and traffic control devices lawfully exacted by said State, County, City, or other agency during the time of performing the work affecting said property.

The Contractor will not be required to pay for inspection provided by the City except for overtime as noted under "Working Hours" herein. The City will provide inspection for all work to be performed under the contract. All materials and work shall be performed only in the presence of the Engineer or his authorized inspector, and any work performed in the absence of said Engineer or authorized inspector shall be subject to rejection.



Where required under the terms of the permits, the Contractor shall obtain liability insurance acceptable to and in an amount required by the public agency having jurisdiction. The policy shall insure said agency against all claims arising out of or in connection with the work to be performed and shall remain in full force and effect until the work is accepted by the City. The Contractor shall furnish to each such agency a certificate of protective liability insurance showing the protection afforded and the amount thereof.

Neither the terms thereof nor anything shown on the drawings in connection with rights-of-way, shall be in violation of existing regulations restricting interference with watercourses and drainage channels. The Contractor shall take adequate precautions against obstructing storm water flow in any affected materials in any area where they might interfere with or be subject to erosion from such flow.

**SPECIAL PROVISIONS**

**Street Rehabilitation and Slurry Seal for Avenida La Pata, Project No. 15312**

**CHANGES IN WORK (SECTION 3 OF “GREENBOOK”)**

**Markup:**

- (a) **Work by Contractor.** The following percentage shall be added to the Contractor’s costs and shall constitute the markup for all overhead and profits:

Labor	20
Materials	15
Equipment Rental	15
Other Items and Expenditures	15

To the sum of the costs and markups provided for in this subsection, 1 percent shall be added as compensation for bonding.

- (c) **Work by Subcontractor.** When all or any part of the extra work is performed by a Subcontractor, the markup shall be applied to the Subcontractor’s actual cost of such work, to which a markup of 10 percent on the first \$2000 of the subcontracted portion of the extra work and a markup of 5 percent on work added in excess of \$2000 of the subcontracted portion of the extra work may be added by the Contractor.

**PROJECT SCHEDULE & COMMENCEMENT OF WORK**

Prior to the commencement of construction, arrangements will be made for a meeting between the Contractor, the Engineer, and the utility companies' representatives. The purpose of this meeting is to organize the activities of the Contractor within the limits of this contract, review scheduling, discuss construction methods and clarify inspection procedures. At this meeting, the Contractor will be required to submit for approval by the Engineer a plan with complete detailed construction schedule showing the number or working days required to complete each portion of the project.

**The East bound side of La Pata from Onda to Avenida Pico and the intersection of La Pata and Avenida Pico** (bounded by the outside line of the existing crosswalks)

This area is to be cold planed and overlaid with 2 inches of asphalt concrete.

- The working hours for this area is restricted to between 10:00p.m. to 5:00a.m., Monday – Friday. **This means all equipment / materials must be out of the area and all traffic lanes open by 5:00am**
- Once the cold planing within this area has started it shall continue each consecutive night until complete.
- The 2 inch asphalt overlay for this area shall start the night immediately following the completion of the cold planing and continue each consecutive night until complete.
- The cold planing is to start early in the week so the paving is completed before the weekend. No work will be allowed Saturday or Sunday.
- Through traffic on La Pata may be closed at Avenida Pico during the working hours for cold planing and paving. All lanes of traffic shall be opened up during non-working hours. Traffic control plans for detours are required.
- Through traffic shall be maintained each way on Avenida Pico.
- Portland cement concrete work in this area shall be done during normal daytime hours and shall start on Monday and be completed, including slot paving by that following Friday.

### **La Pata from Avenida Pico to Extremo**

The cold milling, a.c. removal and re-paving of failed pavement, localized leveling course, slurry application, striping and other work shall be done during the normal daytime working hours. The slurry seal shall be applied following the completion of all a.c. construction on the project.

### **MOBILIZATION**

Mobilization shall consist of preparatory work and operations including, but not limited to, those necessary for the movement of personnel, equipment, materials and incidentals to the project site necessary for work on the project and for all other work and operations which must be performed or costs incurred including bonds, insurance and financing prior to beginning work on the various contract items on the project site. Mobilization shall also include the time, materials, and labor to move the necessary construction equipment to and from the job site, supervisory time on the job by the Contractor's personnel to keep the construction site in safe condition and all other related work as required at all times and for all non-working days during construction period. The Contractor is responsible for securing an adequate storage site for equipment and materials. The Contractor shall provide at own expense a mobile cellular telephone for use of Contractor and Sub-Contractors, and for use of the City representatives, limited to local calls at Contractor's expense.

The Contractor shall have on the work site at all times a competent English-speaking superintendent, as his agent, capable of reading and thoroughly understanding the plans and specifications and other related documents. The Contractor shall submit a daily report to the project inspector from the Contractor and all subcontractors, on forms approved by the Engineer. Included are a listing of all labor, materials and equipment involved for that day. Failure to submit the daily report by the close of the next working day shall be just cause for the City to

dispute progress pay requests. Reports by subcontractors or others shall be submitted through the Contractor. The report shall:

- 1] Show names of workers, classifications, and hours worked.
- 2] Show type of equipment, size, identification number, and hours of operation.

#### Additional Insureds

**In addition to the additional insureds listed herein under the “Agreement for Construction of Public Works” section, also name and list on the Certificate of Insurance and the Endorsement as additional insureds the Pacifica San Clemente Home Owners Association and it’s Board of Directors, officers, employees, agents and members and AMMCOR and it’s Board of Directors, officers, employees and agents (an endorsement shall accompany the insurance certificate naming such additional insureds).**

#### Payment

Payment for mobilization shall be per the lump sum unit bid price and shall be considered full compensation for furnishing all labor, materials, equipment and incidentals necessary to perform the items of work. Progress payments for this item shall be paid in accordance with the completion percentage of the project to the Contractor, and shall include the cost of such mobilization and administration for the entire contract period. No additional compensation will be allowed for furnishing labor, materials, equipment, rental of necessary storage sites for storage of equipment, project information signs, obtaining all City business licenses as required, and incidentals necessary to perform the items of work.

#### **EXISTING STRIPING, MARKING AND RPM REMOVAL PRIOR TO SLURRY SEAL**

The work to be performed or executed under these specifications includes, but is not limited to, the furnishing of labor, materials, equipment and performing all work in control of traffic, removal of all reflectorized pavement markers (RPM’s), ceramic markers, street sweeping, pre-wetting the street, and Slurry seal on AC paving at locations shown on the bid form, notification to residents and businesses and all appurtenant work necessary for the proper construction and completion of the entire contemplated improvements, as specified hereinafter.

The Contractor shall grind off all striping and marking and will be paid for the grinding at the bid item unit price shown on the bid form in the striping section. The Contractor shall use a Schibeci Polyplaner grinder or similar vertical shaft grinder approved by the Engineer.

The Contractor shall remove all rpm’s the day before each slurry seal application. The Contractor shall pre-sweep the streets after the removal of the rpm’s. All water valve covers, manhole covers, survey monuments, and other utility covers shall be covered and taped to prevent slurry seal from adhering the covers or monuments. Payment for the removal of the raised pavement markers and covering of utilities and survey monuments shall be included in the various bid items and shall include furnishing all materials, labor, and equipment. No additional compensation will be allowed.

All thermoplastic striping and marking shown on the project bid form shall be removed with a Schibeci Polyplaner vertical shaft grinder. The Contractor shall use only a vertical shaft grinder, with a minimum grinding surface of 12" width, such as the Schibeci Polyplaner 300 or Schibeci Polyplaner 450. No horizontal shaft grinders will be allowed. No water blasting of the surface will be allowed. All costs for removal of the existing striping and markings entirely, regardless of the no. of passes needed for complete removal of striping and markings on the street, shall be included in the appropriate unit bid item price for the type of striping and marking being removed.

Immediately following the grinding, all residue from the grinding process shall be swept clean.

### **TYPE I & 2 SLURRY SEAL**

#### **CONSTRUCTION MATERIALS**

Slurry seal shall be **3.0% latex modified quick set cationic emulsion aggregate slurry (3.0%LMQSC-1h)**.

The quick set, latex modified, Type I & 2 Road Slurry and shall comply with the requirements set forth in 203-5 of the SSPWC. At a minimum, latex modifier shall not be less than three percent (3%) of the finished emulsion to be used in the slurry mixture. The Contractor shall submit a mix design to the Engineer for review and approval.

#### **CONSTRUCTION METHOD**

Construction of Type I & 2 slurry seal shall comply with the requirements set forth in 302-4 of the SSPWC, except as modified herein.

The slurry seal mixture (3.0%LMQSC-1h) shall be of proper consistency at all times so as to provide the application rate required by the surface condition. The average application rate shall be in accordance with the following Slurry Seal Application Rates:

Type 1 to be used within 13' of "outside" curb face (excluding median curb face) 1,750 SF/ELT (square feet/extra long ton).

Type 2 to be used in all areas beyond 13' from curb face (excl. median curb face) 1,250 SF/ELT (square feet/extra long ton).

Payment reduction for noncompliance shall conform to 302 – 4.11.1

Immediately prior to applying the slurry seal the road surface shall be swept clean using a power broom type pickup sweeper. The surface shall be cleared of all loose material, oil spots, fuel spots, vegetation, and other objectionable material. Any standard cleaning method shall be acceptable. If water is used, cracks shall be allowed to dry thoroughly before slurry seal application.

The slurry seal shall be protected from damage by traffic for a minimum of four (4) hours after application OR until such time that the mixture has cured sufficiently to not adhere to and be picked up by the tires of vehicles. Barricades shall be provided as required to prevent vehicles from entering upon slurry sealed area.

The Contractor shall be required to provide all necessary signs, flashers, temporary striping, markers and other safety equipment as required by the Engineer to insure safe passage of the traffic at all times.

Temporary striping markers shall be placed at the beginning and end of all striping. Spacing for markers shall be at 25-foot intervals on straight sections and at 10-foot intervals on curved sections of the street. No separate payment shall be made for this item of work.

#### PROTECTION OF EXISTING FACILITIES

Slurry seal shall be placed on the asphalt portion of the street only. P.C.C. (gutters, cross gutters and local drainage depression and brick/concrete paver type crosswalk) shall not be slurry sealed.

After the streets have been closed, manhole covers and other utility valve covers and survey monuments shall be covered with roofing felt or other suitable material to prevent the slurry seal from bonding to covers or monuments.

The Contractor shall be responsible for removing temporary striping markers and locating and cleaning all utility covers after the sealing operations. All covering material shall be disposed of properly.

All existing raised pavement markers and ceramic markers shall be removed by the Contractor in advance of slurry sealing.

The Contractor shall cover all cross gutters with an approved material to prevent tracking of slurry seal across the various concrete improvements adjacent to the slurry seal project streets. Care shall be taken to avoid the tracking or spilling of material onto concrete curb and gutter or other non-asphalt surfaces. In the event of such spillage or tracking, the slurry seal shall be removed before the material sets. At the end of the project, if any such spillage remains, it shall be removed at the Contractor's expense by a method approved by the Engineer.

The slurry seal shall possess sufficient stability so that the premature breaking of the material in the spreader box does not occur. The mixture shall be homogeneous during and following mixing and spreading. It shall be free of excess water and emulsion. It shall be free of segregation of the emulsion and aggregate fines from the course aggregate. Spraying of additional water into the spreader box shall be avoided.

No lumping, balling, or unmixed aggregate shall be permitted. No streaks, such as those caused by oversized aggregate, shall be left in the finished surface. If excess oversize develops, the job will be stopped as an avoidable delay until the Contractor demonstrates that the problem has been corrected.

No excess buildup, uncovered areas, or unsightly appearance shall be permitted on longitudinal or transverse joints. The Contractor shall provide suitable width spreading equipment to produce a

minimum of longitudinal joints throughout the project. When possible, longitudinal joints shall be placed on lane lines. A maximum of 6" overlap shall be allowed for longitudinal lane line joints.

Areas which cannot be reached with slurry seal machines shall be surfaced using hand squeegees to provide complete and uniform coverage. The area to be hand worked shall be lightly dampened prior to mix placement and the slurry worked immediately. Care shall be exercised to leave no unsightly appearance from hand work. The same finish as applied by the spreader box shall be required.

The surface area shall be subjected to a minimum of two (2) full coverage passes of a self propelled 10 ton pneumatic roller with a tire pressure of 50 p.s.i. and equipped with a water spray system. Rolling shall not commence until the slurry has cured enough so that it will not pick up on the tires of the roller.

The Contractor shall remove any debris associated with the performance of the work on a daily basis.

#### MEASUREMENT AND PAYMENT

Slurry seal will be measured and paid for at the contract unit price per extra long ton (U.S. standard measure) as provided in 302-4.11 of the SSPWC. The unit price paid per extra long ton (U.S. standard measure) shall include all costs associated with surface preparation, furnishing and placing materials required, traffic control, drainage inlet protection and final cleanup. The unit price per extra long ton shall also include all labor costs, equipment costs, sweeping costs, tools and incidentals needed to complete the work in place per the project specifications and details.

#### CLEARING AND GRUBBING AND SUBGRADE PREPARATION

All work shall conform to Section 300-1 of the Standard Specifications and these Special Provisions.

Clearing and grubbing shall consist of the removal, relocation, or abandonment of all interfering improvements within the job area limits that are not specifically covered by a separate Bid Item.

The following descriptions define the approximate scope of work included in the various types of clearing and grubbing operations. They are intended to be general in nature and should not be considered comprehensive and all inclusive. The estimated quantities are not listed herein. It is the Contractor's responsibility to visit the project area and determine for himself the extent of removals, relocations, abandonments, and adjustments required to clear the way for the proposed improvements.

##### 1. Removals

Clearing and grubbing shall include, but not be limited to, the removal of (1) interfering grass, shrubs, trees, bushes, stumps and other vegetation including roots whether removed in their

entirety or just trimmed portions; (2) miscellaneous, rocks, and debris; (3) removal of existing miscellaneous concrete or asphalt pavement in the flowline of existing gutter; (4) tree and shrub trimming as required along entire street length behind new and existing sidewalk to allow 9 ft. of vertical clearance and 1 ft. clearance behind the sidewalk and access ramp locations; (5) silt from all existing gutters; (6) vegetation overhanging all existing curbs; and (7) removal of all marker paint from curbs upon completion of the project.

## 2. Re-locations

Clearing and grubbing shall include, but not be limited to, the relocation of existing fences, mailboxes, signs, removal and re-location of existing irrigation lines, sprinkler heads, irrigation wires, replacement of adjacent landscape improvements in kind and all other various relocations of existing improvements. At all locations where existing street signs are within the area of the new sidewalk, the signs shall be re-located to a new site behind the new sidewalk, if the right of way permits.

Existing pullboxes that only require adjustment of the pullbox to the new sidewalk elevation shall be paid under the bid unit price for each pullbox adjusted. No additional compensation will be allowed.

## 3. Adjustments

**Clearing and grubbing shall include, but not be limited to, the adjustment of all existing boxes such as water, street light, etc. which are not specifically covered by an adjust to grade bid item.** Where new sidewalk is shown for construction, new water meter boxes will be provided by the City Water Department. Adjustment shall conform to APWA Std. Plan 513-0.

## 4. Special Clean Up and Finishing

Since the proposed project fronts private properties. The Contractor is warned that considerable work shall be required at each property to ensure that they are left in a clean and presentable condition. **All paint markings from utility companies participating in Underground Service Alert (USA) shall be removed from all p.c.c. curbs, gutters, sidewalks, cross gutters and drive approaches before acceptance of the project.**

The Clearing and Grubbing item is meant to be a "catch-all" item. All removals, re-locations, abandonments, and adjustments as shown on the plans, as specified herein, and as otherwise required to complete the proposed improvements but not specifically covered by a separate bid item shall be considered as included in the lump sum price bid for clearing and grubbing.

The Contractor shall exercise due caution when working on this project to avoid any damage to existing improvements not designated for removal. Any damage done by Contractor and/or his equipment shall be repaired or replaced at the Contractor's expense.



## Payment

The lump sum price bid for clearing and grubbing shall include full compensation for furnishing all labor, materials, tools, and equipment for doing all the work involved in "Clearing and Grubbing" as shown on the Plans and as specified above, including all removals, re-locations, adjustments and irrigation modifications.

## **RELOCATE EXISTING STREET SIGN**

Existing street signs shall be relocated behind the sidewalk. Signs that are removed shall be permanently relocated by the end of the same workday. STOP signs shall be relocated immediately upon removal. Before reinstallation, posts which having an existing concrete foundation shall have the foundation removed and the sign post shall have a new foundation constructed at the new sign location. Posts that are existing with a "Telespar" square post system shall have the lower anchor sleeve removed and re-installed by driving the sleeve into compacted soil per OCR&D MD Std. Plan 1417, followed by re-installation of the post and sign. Telespar posts shall not be installed by excavating holes and placing the posts in concrete foundations. The Contractor shall be required to use the appropriate tools for installation of all signs, and shall take care not to damage the existing signs or posts during removal and reinstallation. If the project inspector determines that the existing posts require replacement, the City will provide new posts and/or anchors to the Contractor.

Payment for removing and relocating street signs per the above specification shall be per the bid item unit price per each post removed and relocated, regardless of the number of signs existing on the post.

## **PAVEMENT SECTION REMOVAL, SUBGRADE PREPARATION, GRADING AND COMPACTION**

Remove existing concrete, including drive approach, curb and gutter, sidewalk, and miscellaneous concrete per Standard Specification Sections 300-1, 300-2, as shown per plan or directed by the City Engineer. Excavate and remove existing pavement and subgrade material per Standard Specification Sections 300-1, 300-2, as shown per plan or directed by the City Engineer. Subgrade preparation will be per Standard Specifications Section 301-1, supplemented and amended by Standard Plan 1806.

P.C.C., A.C. and C.M.B. removals, as shown or indicated on the plans and specifications, shall include but not be limited to: concrete curb, concrete curb and gutter, drive approaches, sidewalk, asphalt concrete, aggregate base, and earth. The use of stompers will not be allowed for any portion of the work on this project.

This item shall also be interpreted to include the removal and disposal of any additional items not specifically mentioned herein which may be found within the work limits or are shown on the plans to be removed. A listing of the estimated quantity and sizes of the cold milling areas are shown on Exhibit "C" at the back of the Special Provisions of these project specifications. Only areas that are

failing below the cold milled section will be marked for removal after the cold milling is completed.

The work shall include excavation and subgrade preparation in compliance with Standard Specifications Section 301-1, supplemented and amended by OCPWD Standard Plan 1806. Compacting provisions of the Standard Specifications will apply to all subgrade materials existing as a sub-base for the asphalt concrete base course. Landscape removals shall also include modifying, repairing or relocating irrigation facilities and capping existing lines as directed by the inspector.

Clearing and grubbing shall consist of the removal, relocation, or abandonment of all interfering improvements within the job area limits that are not specifically covered by a separate Bid Item.

Under no circumstances, shall the Contractor place concrete forms with the intent of leaving the forms in place for more than 24 hours, aside from curing freshly pour concrete. Access to all residences and businesses shall be maintained to an acceptable condition unless approved otherwise by the Engineer or necessary to facilitate or protect work.

The Contractor shall dispose of all material from the job site and shall bear all expenses of hauling and disposal of materials.

Payment for the preceding removal requirements shall be per the price bid per square foot of sidewalk, driveway approach and miscellaneous concrete and per linear foot of curb and gutter or curb only removed. The cost for removal of existing concrete improvements other than those items stated above shall be included in the lump sum bid price for "Clearing and grubbing and subgrade preparation " and shall include the related sawcutting, excavation and subgrade preparation. No additional compensation will be allowed.

A. Curb and Gutter, Curb Ramp, Sidewalk, and Local Depression and Longitudinal Gutter Removals:

Work shall be in accordance with Subsection 300-1.3.2(c) of the Standard Specifications and these Special Provisions.

Concrete sidewalks, curb ramps, longitudinal gutter, median curb and curb and gutter shall be sawcut and removed at locations as indicated on the plans and marked by the Engineer.

Concrete sidewalk, drive approaches, access ramp and curb and gutter shall be removed to neatly-sawed edges with sawcuts made to a minimum depth of 1-1/2 inches shall be neat and in straight lines either parallel to the curb or at right angles to the alignment of the sidewalk. No section to be replaced shall be smaller than 5 feet in length. If the sawcut should fall within 48 inches of a construction joint, expansion joint, or edge, the concrete shall be removed to the joint or edge, except that where the sawcut would fall within 12 inches of a score mark, the sawcut shall be made in and along the score mark.

Concrete curb and gutter shall be removed to the nearest expansion joint. If the expansion joint is eight (8) feet or further away from the desired joint location, then the curb and gutter shall be sawcut to a minimum depth of 1-1/2 inches. Removal limits shall conform as close as practicable to those shown on the plans.

Prior to the removal of existing curb or curb and gutter, the Contractor shall identify locations of water and sewer lateral identification marks and record the locations precisely on the project plans. During the construction of new curb and gutter, the Contractor shall replace all previous marks found before removal of the curb or curb and gutter. The new marks shall be completed by stamping a "W" for water service and an "S" for sewer laterals in the green concrete top of curb after finish troweling is complete. The stamps shall be professionally fabricated, with letters three inches (3") high.

**Payment for P.C.C. concrete removal shall be included in the unit bid price being affected. No other compensation shall be given.**

#### B. Pavement Section Removal

Work to be performed under this item shall conform to Subsection 300-1.3.2(a) of the Standard Specifications and these Special Provisions.

Asphalt concrete removal areas shall be sawcut as necessary prior to removal and removed with caution so as not to damage adjacent improvements. The Contractor shall not use equipment which may damage adjacent pavement or improvements.

Conditions may be encountered that require additional excavation in order to bridge unsuitable base materials. The Engineer may order the removal of additional existing base materials at selected locations during the removal process.

Prior to asphalt leveling (if applicable) or placement of the final cap for the proposed section, the City Engineer will walk the site and evaluate for additional failed areas. These additional failed areas will be marked for removal and reconstruction (thickness will be determined at that time). The additional removals at this stage shall be measured and paid under "removal of existing street section" in the bid form.

The exact limits of asphalt concrete surfacing to be removed and replaced are shown on the project plans. The outline of the asphalt concrete to be removed shall be cut on neat lines with a power-driven saw to a minimum depth of 0.15-foot before removing the surfacing. Surfacing and base shall be removed without damage to surfacing that is to remain in place. Damage to pavement which is to remain in place shall be repaired to a condition satisfactory to the Engineer or the damaged pavement shall be removed and replaced with new asphalt concrete if ordered by the Engineer. Repairing or removing and replacing pavement damaged outside the limits of pavement to be replaced shall be at the Contractor's expense and will not be measured nor paid for.

The Contractor shall implement whatever measures are practical during removal operations to maintain the existing subgrade integrity. Any subgrade disturbed or removed due to the Contractor not using the extra care outlined or for his convenience, shall be graded and compacted to the required elevations at no cost to the City.

Full compensation for all Pavement Section and P.C.C. concrete removals shall be included in unit bid price for the improvement being constructed, and shall include sawcutting, excavation, removals, hauling, disposing, grading, compaction and furnishing all materials, labor, tools, equipment and doing all work necessary to complete this item as indicated on plans and as specified.

### **CONSTRUCT LOCAL DEPRESSION**

Payment for local depression shall be made at the bid price per square foot for each local depression constructed. The local depression is to include a curb poured monolithic with the local depression. Unless shown on the bid form as separate bid items, the bid price for this item shall include excavation, followed by placement and compaction of 4" C.M.B. as a sub-base for each new local depression. Gutter slots shall be filled with base course a.c. within 24-hrs. of stripping the forms. No additional compensation will be allowed.

### **CONSTRUCT TYPE A1-8 CURB or A2-8 CURB AND GUTTER**

All work shall conform to City of San Clemente Std. No. ST-6, Type A1-8 or A2-8. Transitional curb and gutter, if required, shall be five (5') feet from one type to the other. Weakened plane joints are required every ten (10) feet.

Prior to the removal of existing curb or curb and gutter, the Contractor shall identify locations of water and sewer lateral identification marks and record the locations precisely on the project plans. During the construction of new curb and gutter, the Contractor shall replace all previous marks found before removal of the curb or curb and gutter. The new marks shall be completed by stamping a "W" for water service and an "S" for sewer laterals in the green concrete top of curb after finish troweling is complete. The stamps shall be professionally fabricated, with letters three inches (3") high.

Payment for the preceding shall be per the unit price per each linear foot of curb and gutter in place and shall include the construction of variable curb height to meet existing sidewalk, depressed curb for wheelchair ramp, any necessary transitional curb, re-painting of curb faces as necessary, asphalt concrete patch back, and other work as required to complete the work. Unless shown on the bid form as separate bid items, the bid price for this item shall include removal and disposal of existing curb and gutter, excavation, placement and compaction of four inches (4") of crushed miscellaneous base as a sub-base for new curb and gutter, and removing and replacing existing pavement to allow forming of the gutter lip. Also, the bid price shall include all work necessary to tie in all existing curb drains using schedule 40 PVC pipe materials. Gutter slots shall be filled with base course a.c. within 24-hrs. of stripping the forms.

No additional compensation will be allowed.

### **CONSTRUCT LONGITUDINAL GUTTER**

All work shall conform to the City of San Clemente Std. Plan ST-8 and as indicated on the plans. The longitudinal gutter shall be constructed at the median opening on Ave. La Pata at the exist from Steed Park. The longitudinal gutter shall have a width of 3-ft. with a flowline one ft. from the existing gutter edge that the longitudinal gutter will tie into on both ends.

Payment for construction of longitudinal gutter shall be made at the unit price bid per square foot. Unless shown on the bid form as separate bid items, the bid price for this item shall include sawcutting and removal of existing asphalt and concrete within the limits of the new longitudinal gutter, removal and disposal of the existing section, excavation, placement and compaction of six inches (6") of crushed miscellaneous base as sub-base for the new longitudinal gutter, and new longitudinal gutter construction.

### **CONSTRUCT SIDEWALK**

The construction of 4-inch thick portland cement concrete shall conform to City of San Clemente Std. No. ST-3 with lines and grades to meet existing improvement and in like kind. When joining, new construction shall match existing improvements with proper grade to form a safe and smooth surface. **Unless a separate bid item is provided, wherever a utility box or water meter box is existing or to be installed in the new sidewalk, the utility box shall be adjusted to the sidewalk grade and the adjustment shall be included in the bid price per square foot of sidewalk.** Wherever existing under sidewalk curb drains are encountered the drain pipe shall be replaced in like kind by the Contractor prior to installation of the new sidewalk. Curb drain installation shall be per City Std. ST-7. Wherever a utility box or water meter box is existing or to be installed in the new sidewalk, the utility box shall be adjusted to the sidewalk grade and the adjustment shall be included in the bid price per square foot of sidewalk. Removals and/or relocations necessary for sidewalk construction are to be paid as part of clearing and grubbing, except where a separate bid item exists for a stated removal or relocation item of work. All labor, materials and equipment necessary to complete this work and tie-in of all existing drains shall be included in the unit bid price.

Payment for the preceding requirements shall be per the unit price bid per square foot. Unless shown on the bid form as separate bid items, the bid price for this item shall include removal and disposal of existing sidewalk, disposal of any existing sidewalk, soil excavation, grading, placement and compaction of four inches (4") of crushed miscellaneous base as sub-base for the new sidewalk and construction of new sidewalk, and curb drain installation per City Std. ST-7.

No additional compensation will be allowed.

### **CONSTRUCT RETAINING CURB**

Where necessary and/or shown on the project plans, retaining curbs will be constructed at the

back of new access ramps to join existing grades. The retaining curbs shall be constructed monolithic with the adjacent sidewalk or access ramp and shall have a vertical curb face. The exact curb height will be determined in the field by the City Inspector. Exact locations of retaining curbs and heights shall be determined in the field during sidewalk excavation. Heights shall be approved by the project Inspector prior to construction.

Retaining curbs used behind access ramp locations will also be included in this bid item, and will be paid as a separate unit price bid item and not included with the square foot bid price of access ramp construction.

Payment for the preceding shall be per the unit bid price per each linear foot of variable height retaining curb in place and shall include the construction of variable curb height to meet existing sidewalk and any necessary transitional curb, and other work as required to complete the work. The bid price for this item shall include removal and disposal of any existing improvements, soil excavation, grading, placement and compaction of four inches (4") of crushed miscellaneous base as sub-base for the new retaining curb and construction of new variable height retaining curb. No additional compensation will be allowed.

### **CONSTRUCT CURB RAMP**

All work shall conform to Caltrans Revised Standard Plan RSP A88A or RSP A88B as designated on the project plans, modified to field conditions, and with lines and grades meeting existing improvements in like kind. All new curb ramps require the construction of cast in place detectable warning systems as manufactured by Armorcast or approved equal. The size of the detectable warning system shall be 5-ft. x 3-ft. All detectable warning systems shall be dark gray (Federal Standard 595B, Color No. 36118). The Contractor shall exercise great care to construct curbs conforming strictly to ADA standards at locations where pedestrian access ramps will be constructed. The curb face shall be depressed to a flush surface with no lip at the flowline. The slope of the asphalt or p.c.c. cross gutter / spandrel leading up to the pedestrian access ramp shall not exceed five point zero zero percent (5.00%) for a distance of four feet (4') with a maximum two point zero zero percent (2.00%) cross slope.

Unless a separate bid item is provided, wherever a utility box or water meter box is existing or to be installed in the new sidewalk, the utility box shall be adjusted to the sidewalk grade and the adjustment shall be included in the bid price per square foot of sidewalk. All pullboxes that require adjusting to grade or that are damaged during construction shall be replaced with new pull boxes provided by Contractor except where shown otherwise or approved by the Engineer. Bottom of pullboxes shall be bedded in 4" of crushed rock. Pull box and cover shall be polymer coated concrete. The Contractor shall adjust all conduits within each pullbox to provide a minimum of 3" clearance to the bottom of the pullbox cover. Conduits shall be shortened to fit within the pullbox as necessary. Any damage to any conductors or wires shall require replacement of conduit and and /or wires from origin to terminus. Where new access ramps are to be constructed at the location of an existing spandrel, the curb face of the spandrel shall be horizontally saw cut to conform to the location of the new ramp. No sawcutting at the

existing flowline will be allowed. Where joining, new construction shall match existing improvements with proper grade to form a safe and smooth surface.

**Ramp removal and replacement shall be scheduled such that all ramps removed for reconstruction are re-opened to the public as temporary ramps by 5:00 p.m. each day. Temporary ramps shall be constructed with temporary a.c. to provide safe access to the public during non-working hours.**

Payment for the curb and gutter construction will be made at the bid unit price per lineal foot constructed. Payment for retaining curb behind each access ramp will be made at the bid unit price per lineal foot of retaining curb constructed. Payment for access ramp construction will be made at the bid unit price per square foot. The bid item price for the access ramp shall include the removal and disposal of all conflicting improvements necessary to construct the new access ramp. The bid price for this item shall also include excavation, followed by placement and compaction of 4" Class 2 aggregate base as a subbase for each new access ramp. No additional compensation will be allowed.

#### **INSTALL GEOTEXTILE FABRIC ON SUBGRADE**

Geotextile fabric shall be Mirafi 600X or approved equal.

Geotextile fabric shall be lapped longitudinally a minimum of 2 inches and transversely a minimum of 6 inches. No payment will be made for laps. Geotextile fabric shall be installed using 10" wire staples placed 20' maximum distance between. Locations of installation will be determined in the field prior to base course paving.

Payment for geotextile fabric shall be made at the contract price per square foot which shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals for doing all work involved in placing the fabric.

#### **COLD MILL EXISTING ASPHALT CONCRETE PAVEMENT**

This work shall conform to the requirement of Subsection 300-1.3 "Removal and Disposal" of Materials, Subsection 302-5.2 "Cold Milling Asphalt Concrete Pavement" except as otherwise called for in these Special Provisions. Existing pavement sections shall be cold milled at the to the dimensions and details shown on the plans and as shown in Exhibit "C" of these project specifications. Depth of cold milling shall be 2" in depth between Via Onda southbound to Ave. Pico, including the entire Pico/La Pata intersection. Depth of cold milling shall be 2.5" for all cold milled areas on Ave La Pata south of Ave. Pico to Calle Extremo. All cold milling work shall be completed by the Contractor before the removal and replacement of pavement sections.

All cold milled areas on Ave. La Pata south of Ave. Pico shall be re-paved before the end of each work day. Cold milling operations shall not continue after 1:00 p.m. each work day to allow adequate time for the paving crew to complete the re-paving of each cold milled area.

Except as otherwise called for on the plans, all A.C. pavement cuts shall be cut to neat, clean and straight lines to the satisfaction of, and as directed by, the Engineer. The cold milling machines shall be operated so as not to produce dust, fumes or smoke.

The final depth, width, length and shape of the cut shall be as indicated on the typical cross sections or as directed by the Engineer. The final cut shall result in a uniform surface conforming to the typical cross section(s) except as otherwise directed by the Engineer.

Surveyor's street and property line monuments, not scheduled for removal, shall be protected.

The City has made every reasonable effort to locate and mark on the plans all known metal roadway improvements such as sewer manhole covers, water valve covers, catch basin covers, which, if struck, could damage the cold milling cutting drum and/or carbide tipped cutting teeth and makes no guarantee that it has successfully done so or shall, therefore, thoroughly inspect the work site in advance of the cold milling operation to minimize the risk of striking any unseen under surface object(s) and shall include in the price(s) bid for cold milling removal work an additional amount sufficient to cover the cost of damage related down time and the cost of repair of damage to said cold milling cutting drum and/or carbide tipped cutting teeth.

Care shall be exercised not to damage adjacent concrete gutters or curb. Gutters or curbs damaged shall be replaced at the Contractor's expense.

Residue from grinding shall not be permitted to flow or travel into gutters, onto adjacent street surfaces or parkways. All residue shall be completely removed by sweeping and properly disposed. No washing of residue into drainage structures will be allowed.

Temporary ramping (taper grind), where required by the Engineer for traffic control or other purposes, shall be considered included in the price bid for "Traffic Control and Temporary Striping", and no additional compensation will be allowed.

Payment for cold milling shall be per the contract unit prices bid per square foot and will be based on the actual area of surface planed regardless of the number of passes or the depth required. The contract prices paid per square foot for cold milling of asphalt concrete pavement section shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work involved in milling the asphalt concrete and disposing of material removed, as specified in these special provisions and as directed by the Engineer.

**ASPHALT CONCRETE BASE COURSE, LEVELING COURSE, SLOT PAVING and CAPPING OF COLD MILLED AREAS SOUTH OF AVE. PICO.**

All work shall conform to Section 302-5 and 400-4 of the Standard Specifications and these Special Provisions. Subsection 302-5.1 of the Standard Specifications is supplemented and amended as follows: "Asphalt concrete shall conform to the Special Provisions outlined in OCPWD Standard Plan 1805."



## **Surface Preparation:**

Prior to placing asphalt concrete, all existing surfaces shall be cleaned by hand broom and dust sucker. The surface shall be free of water, dust, or foreign material before tack coat is applied.

Prior to the application of new AC surface course, the Contractor shall locate and tie-out all manholes and valve covers before commencing work.

## **Tack Coat**

Tack coat shall be per Section 302-5.4 of the Green Book. Tack coat used for street removals shall be PG 64-10 Grade SS-1h and shall be applied to the perimeter of all AC removal and replacement locations.

Tack coat used prior to the rubberized asphalt overlay and leveling course between Via Onda and Ave. Pico, including the intersection of Ave. Pico and Ave. La Pata, shall be High Performance Seal (HPS) No Track tack from Paramount Petroleum. HPS No Track tack and shall be applied at a minimum spread rate of 0.09 gallons per square yard prior to leveling course paving and rubberized a.c. overlay paving.

Asphalt concrete shall be laid by a self propelled Barber-Green paver or approved equal. The final lift of asphalt shall be paved in passes whereby the joint between passes matches the lane striping per the striping plan. The Contractor shall cold mill 2" and re-pave all lanes where the joints do not match the final lane striping.

Asphalt concrete base course shall be Type III B2- PG 70-10. Asphalt concrete base course shall be used within the bottom 4" of all gutter slots.

Asphalt concrete leveling course and asphalt concrete used for capping of removal areas shall be Type III C2 PG64-10. All gutter slots shall be capped with Type III C2 PG64-10 mix.

A.C. Type III C2 PG64-10 shall be used to cap the full width cold milled area on Avenida La Pata (southbound side) between Via Onda and Avenida Pico, as well as the Avenida Pico / Avenida La Pata intersection.

At all locations where new asphalt concrete pavement is joining or overlaying existing asphalt pavement, the Contractor shall sawcut existing pavement to provide straight neat lines and feather the new pavement to form a smooth transition with the existing pavement.

**Contractor shall complete base course paving of all excavated areas by the end of the same working day. Immediately after base course asphalt paving is completed within a given area, all sewer manholes shall be marked and exposed for emergency access purposes.**

**Before any street section removals begin, plywood shall be placed inside all sewer manhole shelves to prevent construction materials from entering the sewer system during construction.** The plywood inserts shall remain in each manhole until the final adjustment of each manhole is completed.

Contractor shall be responsible for checking of grades to eliminate low spots prior to capping and also checking for proper drainage prior to placing the base course and tack coats prior to placing the leveling course.

The Contractor shall be responsible for maintaining location of, and access to, all water line gate valves during construction operations.

Field density tests will be made by the Geotechnical Engineer during the course of construction at the expense of the City. If field density tests indicate that any portion of the compacted subgrade has density lower than 95% relative compaction, the Contractor shall rework that portion until the specified density is obtained. Retest of areas which have failed compaction will be performed by the Geotechnical Engineer at the Contractor's expense.

Payment for HPS No Track tack will be made at the bid item unit price per ton used on the project. The Contractor shall submit certified weight tickets to the City for material delivered to the project. Oil spreader trucks shall be weighed prior to arrival at the project and re-weighed after departure from the project, with the amount of net tons shown on certified weight ticket(s).

Payment for this a.c. base course, a.c. leveling course, gutter slot and a.c. cap shall be based on the unit price bid per ton of each material used on the project. Gutter slots shall be base paved with a.c. base course and cap with level course a.c. mix. The Contractor shall submit certified weight tickets to the City inspector for each load of material delivered to the project and used on the project. No payment will be made for paving materials delivered to the project but not used on the project. No other compensation will be allowed.

#### **REMOVE FAILED AREAS PRIOR TO LEVELING COURSE AND/OR FINAL OVERLAY**

Prior to asphalt leveling (if applicable) or final placement of the asphalt cap for the proposed section, the City Engineer or his representative will walk the job site to evaluate each street for any additional failed areas that require removal and replacement. These additional failed areas will be marked for removal and reconstruction. The depth of the removal will be determined and marked at each location. The Contractor shall sawcut and remove the failed areas as marked.

Because the locations and size of these areas are unknown at the time of bidding, the Contractor shall assume that the size of each failed area will not be less than 100 sq. ft. and the depth will generally be at least 2" deeper than the section to be removed. The Contractor shall assume that mobilization of backhoes, dumptrucks, skiploaders, rollers, and work force will be needed to complete this activity prior to the final overlay of the street. Contractor shall schedule the final overlay on the street to allow sufficient time for the City to walk the base course and existing pavement and determine if additional removals of failed a.c. are necessary prior to the final overlay. Contractor shall allow at least one working day between completion of the base course paving and the beginning of the final overlay for the removal and replacement of failed a.c. at various locations on each project street.

Payment for this work will be per the bid item unit price per cubic yard of material removed and disposed off site under "Remove failed areas prior to leveling course and/or final overlay". No other compensation will be allowed.

**CONSTRUCT VARIABLE DEPTH A.C. BASE COURSE AT LOCATIONS OF FAILED A.C. PRIOR TO LEVELING COURSE AND/OR FINAL OVERLAY**

This work involves any replacement of base course asphalt concrete areas that fail prior to the leveling course and/or the final overlay. The depth of the removal will be determined and marked at each location. The Contractor shall place the base course asphalt concrete in lifts as directed by the City. All locations removed shall be re-paved with base course a.c. before the end of each workday. Asphalt concrete base course shall use Type III B2 PG 70-10.

Because the locations and size of these areas are unknown at the time of bidding, the Contractor shall assume that the size of each failed area will not be less than 100 sq. ft. and the depth will generally be at least 2" deeper than the section to be removed. The Contractor shall assume that mobilization of backhoes, dump-trucks, skip-loaders, tack rigs, rollers, and necessary work force will be needed to complete this activity prior to the final overlay of the street.

Payment for this work will be per the bid item unit price per ton of base course asphalt concrete laid under "Construct variable depth a.c. base course at locations of failed asphalt prior to leveling course and/or final overlay". No other compensation will be allowed.

**INSTALL PERMANENT STRIPING AND MARKING**

Pavement striping shall be installed per the "Avenida La Pata Lane Striping" plan (3 sheets) and conforming to Sections 210 and 310 of the Standard Specifications for Public Works Construction and these Specifications. All striping on the project, including limit lines, arrows, crosswalk lines and pavement marking letters shall be thermo-plastic (ALKYD).

All work necessary to establish satisfactory lines for stripes and all layout work required for pavement markings shall be performed by the Contractor at his expense. Lines shall be established by the application of cat tracks or dribble lines.

Existing stripes and markings shall be removed prior to placing new ones, but in no case shall any section of street be left without the proper striping for more than 24 hours, or over weekends or holidays. Cat tracking shall commence within 24-hrs. If thermoplastic materials are not immediately available for use on the project, the Contractor shall use paint and install one coat of paint wherever thermoplastic would otherwise be installed. When thermoplastic materials become available, the Contractor shall install thermoplastic directly over the previously installed painted stripes and legends. All costs associated with application of paint while waiting for thermoplastic to become available shall be borne by the Contractor.

310-5.6.7 Layout, Alignment and Spotting:

The first paragraph is replaced with the following:

A. No striping or marking work shall start until the Engineer has specifically approved the spotted markings.

The Contractor shall furnish the necessary control points for all striping and markings and shall be responsible for the completeness and accuracy thereof to the satisfaction of the Engineer.

The Contractor shall perform all layout, alignment, and spotting for traffic stripes and markings. Traffic striping shall not vary by more than  $\frac{1}{2}$  inch in 50 feet from the alignment shown on the plans. The dimensional details of the stripes and markings shall conform to the provisions set forth in the Traffic Manual available from Caltrans.

Cat tracking shall consist of stretching a rope on a straight line between control points on tangent alignment and on a true arc, through control points on curved alignment and by placing spots of paint along the rope. The spots shall be not more than 3 inches in width and not more than 5 feet apart on curves or more than 10 feet apart on tangents.

Dribble method may be used only when designated by the City. Dribble lines shall consist of marking the pavement with a thin line of paint using a striping machine or other suitable device. Dribble lines shall be on a straight line between control points on tangent alignment and on a true arch through control points on curved alignment.

Paint for cat tracks and dribble lines shall be the same color as the traffic stripes, which are placed.

B. Tolerances and Appearances:

Traffic stripes and pavement markings shall conform to the dimensions and details in accordance with the Standard Specifications.

Completed traffic stripes shall have clean and well-defined edges without running or deformation, shall be uniform, shall be straight on tangent alignment, and shall be on a true arc on curved alignment. The widths of completed traffic stripes shall not deviate more than  $\frac{1}{4}$  inch on tangent nor more than  $\frac{1}{2}$  inch on curves from the widths shown on the plans. Broken traffic stripes shall also conform to the following requirements:

1. The lengths of the gaps and individual stripes that form broken traffic stripes shall not deviate more than 2 inches from the lengths requested or shown on the plans.
2. The lengths of the gaps and individual stripes shall be of such uniformity throughout the entire length of each broken traffic stripe that a normal striping machine will be able to repeat the pattern and superimpose additional stripes upon the traffic stripe being applied.

The completed pavement markings shall have clean and well defined edges without running or deformation and shall conform to the dimensions requested or shown on the plans, except that minor variation may be accepted by the Engineer or his designee.

Drips, overspray, improper markings, and striping material tracked by traffic shall be immediately removed from the pavement surface by methods approved by the Engineer. All such removal work shall be at the Contractor's expense. Ragged ends of segments, fogginess along the sides or objectionable dribbling along the unpainted portions of the stripe shall be removed to the satisfaction of the Engineer or his designee.

The finished product shall have an opaque, well-pigmented appearance with no black or other discolorations showing through.

Existing lines shall be followed in such a manner as to present a uniform, pleasing appearance, and misalignment or disregard to previous painting will not be permitted. Abrupt breaks in alignment between broken segments will not be permitted.

The Engineer or his designee shall inspect completed lines and shall inform the Contractor of any faulty methods or unsatisfactory results. Lines considered unsatisfactory shall be re-striped and reflectorized at the Contractor's expense and the Engineer shall be the sole judge as to the acceptability of the completed line.

#### C. Defective Workmanship:

The Contractor will have ten (10) working days to clean up or correct any unsatisfactory work. Removal of paint shall be done by water blasting or wet sandblasting. Removal of thermoplastic shall be done by grinding. After sandblasting and grinding, area will be cleaned. The City shall after ten (10) working days retain the right to either call in another Contractor or to perform the work with City forces; and to bill the Contractor time and material charges plus 30 percent for overhead or contract cost plus 15 percent for overhead.

Protection from Damage. The Contractor shall take special care to protect existing reflective pavement markers and shall, at his expense, replace all coated markers.

Newly placed traffic stripes and pavement markings shall be protected from damage by public traffic or other causes until the paint is thoroughly dry.

#### 310-5.6.8 Application Rate and Requirements (Add the following)

A. Application: All Thermoplastic shall be applied at 125 mil wet film thickness.

All striping and beads shall be applied at the following rates and in conformance with the following requirements:

1. All stripes shall be four inches (4") in width, plus or minus 1/4".

2. Broken single stripes shall have an alternating pattern of seven-foot (7') striped sections and seventeen-foot (17') un-striped sections. Double solid lines shall be four inches (4") in width.

3. The rate of application of beads and red paint:

a. Except red paint, Six (6) pounds of beads per gallon of paint.

b. Red paint shall have 8 mil wet film thickness, glass beads not required.

4. The Contractor shall take all reasonable precautions to protect the material during drying time and shall be required to remove all objectionable tracking.

5. Traffic stripes and pavement markings shall be applied only on dry surfaces and only during periods of favorable weather. Striping shall not be performed when the atmospheric temperature is below 50°F, when freshly striped surfaces may become damaged by rain, or condensation, or when it can be anticipated that the atmospheric temperature will drop below said 50°F temperatures during the drying period.

6. No work shall be done when weather conditions restrict visibility to less than one mile or when designated by the Engineer.

7. Surfaces which are to receive traffic stripes, markings or curb painting shall be cleaned of all dirt and loose material.

8. Mixing and application equipment shall be in accordance with Section 84 of the Standard Specifications.

#### B. Materials:

1. Alkyd Thermoplastic Pavement Marking Materials:

1.1 This specification covers Alkyd Thermoplastic, molten applied reflectorized pavement marking material which upon cooling to normal pavement temperature produces a durably screed/extruded reflectorized stripe and/or markings of a minimum 125 mil (3.157mm) thickness and specified width, capable of resisting oil staining and deformation by traffic.

1.2 Materials Composition: The alkyd thermoplastic materials shall be homogeneously composed of the following minimum % by weight components: (a) 18% maleic-modified glycerol ester resin binder; (b) 25% pre-mix glass beads which shall be uncoated and conform to AASHTO M247-81 Type 1; (c) 10% of Titanium Dioxide pigment for white materials; and (d) the yellow pigment shall be heat stabilized encapsulated lead chromate. The material shall not contain any petroleum-derived ingredients. The inert fillers shall consist of calcium carbonate and not silica. The material specific gravity shall not exceed 2.15. The material shall be tested in

accordance with AASHTO M249 and T250 with the appropriate method in Federal Test Method Standard No. 141 or ASTM designation.

1.3 Application: Materials shall be applied in accordance with information provided in the pamphlets “Standard Practices for Successful Alkyd Hydrocarbon and Epoxy Thermoplastic” and “Thermoplastic Application Installation Guide” as well as conform to Caltrans specifications.

1.4 Quality: Service shall be color stability, retro-reflective properties, crack resistance and lack of softening or permanent discoloration due to exposure to oil and grease drippings.

1.5 Observation Period: Prior to consideration of final acceptance of all work completed as required herein and/or shown in the pavement marking plans, there shall be a one (1) year observation period, that the materials will be warranted against the aforementioned items written in Section 5.4.

1.6 The Contractor, at no expense to the City of San Clemente, shall replace any pavement marking not applied at the proper thickness or that will not perform satisfactorily under traffic, by completely removing the existing materials by grinding. No material recapping is allowed.

2.0 Stencils: Contractor shall provide all stencils and street marking legend cutouts, all of which conform to standards presently in use in the City of San Clemente for the re-stripping of all existing pavements legends. For all new work, where new legends are required, the Contractor shall use State of California Standards, Traffic Manual, Chapter 6.00.

3.0 Beads used for Reflectorized lines shall conform to the following:

3.1 Beads shall be colorless and free from milkiness.

3.2 Eighty five percent of the beads shall be .015 inches to .037 inches in diameter.

3.3 Beads shall be kept in a dry storage to prevent moisture absorption.

C. Traffic stripes, pavement markings and pavement markers shall be removed as shown on the plans. The removal of traffic stripes and markings shall be accomplished by either of the following methods:

1. Wet Sandblasting: Where blast cleaning is used for the removal of painted traffic stripes and pavement markings or for removal of objectionable material, and such removal operation is being performed within Ten (10) feet of a lane occupied by public traffic, the residue including dust shall be removed immediately after contact between the sand and the surface being treated. Such removal shall be by a vacuum attachment operating concurrently with the blast cleaning operation.

2. Grinding: A minimum of 3 passes with the grinder, per stripe, is required. Removal shall

be to a maximum depth of 1/10". Removal depth may exceed 1/10" only when necessary to effectively remove paint, and only on approval by the engineer. Asphalt emulsion slurry shall be applied to the areas where stripes or pavement markings have been removed.

Temporary removal of stripes and pavement markings may be accomplished by either of the above methods or, at the Contractor's option, by the application of removable black line mask, 3M Series 145, or approved equal. Obliteration of stripes or pavement markings by applying black paint or asphalt emulsion is not an approved removal method.

It shall be the responsibility of the Contractor to properly dispose of the residue from removal of striping and pavement markings.

Raised pavement markers shall conform to California Department of Transportation Standard Specifications, Section 85, and shall be of the type as called for on the plans. Pavement legend dimensions shall conform to the City stencils. All stripes and pavement legends shall be reflectorized. Blue RPM's shall be installed at all fire hydrant locations.

#### Payment

Payment for striping and marking shall be made at the bid item unit price for each striping and marking item used. The bid unit price shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all the work involved in traffic stripes, and pavement markings, including establishing alignment for stripe and layout work, and removal of pavement markings and raised pavement markers as shown on the plans and as required in these specifications. Payment shall include full compensation for doing all the work involved in and removing existing conflicting striping and markings. No additional compensation will be allowed.

#### **TEMPORARY LOWER MANHOLE AND INSERT PLYWOOD. EMERGENCY ACCESS TO MANHOLE. ADJUST MANHOLE FRAME AND COVER TO FINAL GRADE**

The work consists of the excavation, reconstruction and adjustment of existing sanitary sewer manhole (SSMH) rims and storm drain rims to street finish surface grade. Payment for manhole adjustment will be made at a bid price for each structure. Reconstruction shall include cone modification, precast rings, and concrete collar per modified City Standard S-3, as required. All rims and covers shall be cleaned of asphalt or other material that has covered the top. All rims and covers shall remain a matched set. **In all cases, the Contractor shall place plywood inserts on the manhole shelf of each sewer manhole prior to the commencement of construction activities to prevent debris from entering the sewer.** Street removals will not be allowed to start until all sewer manholes inside the construction zone have been protected with plywood inserts. The placement of plywood inserts shall be paid for as part of the bid item for adjusting each manhole. All manholes shall be thoroughly cleaned of any construction material and debris that has entered due to the Contractor's operations. If any native soils, bricks, aggregate base, asphalt concrete, p.c.c., or other materials enter the sewer system as a result of the Contractor's



construction, the Contractor will be required to ball and clean the downstream sewer system to the satisfaction of the City Sewer Division Utilities Superintendent. **If blockage occurs to the City sewer system as a result of the Contractor's activities, the Contractor will be responsible to pay any clean-up costs and fines resulting from such event.** Presently, the fine is based on \$10 per gallon of spillage. All costs incurred will be deducted from payments due on the Contract.

Temporary lowering of existing manholes, for emergency access, traffic control or other purposes and replacement of the old adjustment rings, if necessary, shall be considered included in the price bid for each item, and no additional compensation will be allowed. Temporary lowering of manholes, both sewer and storm drain, is required in areas where pavement cold milling will occur adjacent to the manhole. Ramping around existing manhole rims will be not allowed. All sewer manholes shall be accessible throughout all phases of construction. Immediately after base course a.c. paving is completed within a given area, all sewer manholes shall be marked and exposed for emergency access purposes. When replacement of manhole lids and rims is required, the City will supply the manholes lids and rings for the Contractor. The Contractor shall return the old rings and lids to the City. The adjustment of manholes is paid per the bid unit price per each manhole, regardless of the number of times the manhole rims are temporary raised or lowered. The manhole rim and covers shall have a concrete ring constructed and paved with 2" of asphalt concrete, Type III D1 PG64-10. Payment for the preceding shall be per the unit price bid per each manhole adjusted and shall be considered full compensation for furnishing all labor, materials, tools, equipment, other work as called out on plans, and incidentals to accomplish the work.

Prior to any pavement overlays, all exposed manholes shall be marked with an I.D. locator, manufactured by Arrow Sign Co., Inc. (800) 637-7446, or an approved equal. I.D. locators shall be used to find the manhole location immediately after rolling the new mat. Manhole locations shall then be marked with paint, and the I.D. locator shall be cut flush to the existing pavement surface. Final manhole adjustment shall begin within 24 hours.

I.D. locators used to find manholes after paving shall be removed from each manhole cover during the final adjustment. Manhole covers shall be cleaned of all asphalt concrete, regardless of the age of the a.c. All plywood inserts shall be removed from manhole shelves upon completion of the final a.c. paving. Payment will be made after the final adjustment to finish elevation is completed per City Standard S-3.

**TEMPORARY LOWER VALVE CAN AND PROVIDE EMERGENCY ACCESS TO VALVE CAN. FURNISH NEW TOP SECTION AND COVER AND ADJUST WATER VALVE CAN TO FINAL GRADE. CLEAN OUT VALVE CAN.**

The excavation, backfilling, and compaction shall be included in the adjustment of the existing water valve box to street finished surface grade. Access to all water valve cans shall be maintained at all times during construction. The final valve can adjustment shall be completed no later than two working days following the paving of the final lift of the asphalt concrete surface. Temporary lowering of water valve cans is required in areas where pavement cold

milling will occur adjacent to the valve can. Lowering and raising of the water valve cans shall be per City Standard W-5. Ramping around existing water valve cans will be not allowed. All water valve cans shall be accessible throughout all phases of construction. Immediately after base course a.c. paving is completed within a given area, all water valve cans shall be marked and exposed for emergency access purposes. Temporary lowering of existing water valve cans, for emergency access, traffic control or other purposes as shown on the plan shall be considered included in the price bid for each item, and no additional compensation will be allowed.

Prior to any pavement overlays, all exposed valve cans shall be marked with an I.D. locator, manufactured by Arrow Sign Co., Inc. (800) 637-7446, or an approved equal. I.D. locators shall be used to find the valve can location immediately after rolling the new mat. Valve can locations shall then be marked with paint, and the I.D. locator shall be cut flush to the existing pavement surface. Final manhole adjustment shall begin within 24 hours.

The adjusted valve boxes shall have a concrete ring constructed and paved with 2" of asphalt concrete, Type III D1-PG 64-10. I.D. locators used to find water valve cans after paving shall be removed from each valve can cover during the final adjustment. Valve can covers shall be cleaned of all asphalt concrete, regardless of the age of the a.c.

After the final adjustment, all valve cans shall be opened and cleaned of all dirt and debris. Final inspection by the City water division representatives shall be scheduled and the Contractor shall have a representative present to open valve cans for inspection. Payment for the preceding shall be per the unit price bid per each unit adjusted and shall be considered full compensation for furnishing all labor, materials, tools, equipment, other work as called out on plans, and incidentals to accomplish the work. Adjustment of all the new valves are included as part of the construction of these new valves. No additional compensation will be allowed.

### **PREPARE TRAFFIC CONTROL PLAN**

**The Contractor shall submit a traffic control plan** prepared by a Registered Engineer to the City Traffic Engineer for approval before the City issuance of a Notice to Proceed. A separate traffic control plan shall be prepared for each phase of work. The traffic control plan shall be reviewed and/or modified and approved prior to commencement of construction activities on the project.

The traffic control plan shall be designed to handle traffic safely 24 hours per day, seven days per week for the duration of the project. Traffic deviations and detours must be approved by the City Traffic Engineer and shall be coordinated with Police, Fire and Transit authorities a minimum of 24 hours in advance of implementation.

Payment for preparation of the traffic control plan shall be paid for at the lump sum bid price. All costs associated with preparation of a traffic control plan, and all necessary corrections to the plan to obtain the necessary approvals, shall be included in the lump sum bid price for "Prepare Traffic Control Plan".

## **TRAFFIC CONTROL AND TEMPORARY STRIPING**

Traffic control shall conform to Section 7-10 of the Standard Specifications and the provisions stated in the General Provisions.

The Contractor will provide all barricades, signs, pedestals and other means to provide for the safety of the public and control of traffic. During construction operations, barricades may be supplemented with minimum size eighteen-inch (18") high traffic cones or delineators such that spacing between barricades and/or cones or delineators is no greater than twenty-five feet (25'). At all access points, such as intersecting streets, alleys and driveways, barricades and/or cones shall be provided at five-foot intervals so as to prevent vehicular access to the paving area.

Where no pavement exists in a roadway and traffic is to be maintained through the worksite, the Contractor shall conduct its operations in a manner to provide a smooth, even surface satisfactory for traffic, reasonably free of mud or dust.

The Contractor shall make every effort to keep driveways open during working hours. After hours all driveways shall be accessible with smooth and safe crossings through the construction.

All traffic lanes shall have a minimum width of eleven feet (11') unless otherwise specified. In addition to the lane width specified herein, the Contractor shall maintain a clearance of two feet (2') feet to curbs, barricades, and other vertical obstructions.

"No Left Turn" and "No Right Turn" signs shall be provided wherever required by the Engineer. Judgment as to adequate or sufficient barricading shall be that which is adequate or sufficient in the opinion of the Engineer. The Contractor shall protect the new improvements, and if damaged or defaced, the Contractor shall repair said damage at no additional cost to the City.

When one-way access from a side street or alley is permitted, barricade and cones shall be provided at five-foot (5') intervals for a distance of fifty feet (50') on either side of the centerline of the intersecting street or alley.

Traffic control shall be approved by the Engineer prior to commencing work each day.

The Contractor shall post "No Parking" signs at seventy-five foot (75') intervals a minimum of two (2) days prior to the time work is scheduled to begin on the street. The signs shall be furnished by the Contractor and shall be marked clearly with the day and times upon which parking is to be prohibited. The Contractor shall be responsible for the removal of all temporary "No Parking" signs and fasteners or tape used after the Work is completed on each street.

When necessary, the Contractor shall provide adequate pedestrian access crossings.

The Contractor shall notify the occupants of properties affected by the work. Notification shall be by delivery of Notices furnished by the City. One handbill shall be distributed prior to beginning of work. The handbill shall be distributed at least 48, but no more than 72 hours in

advance. Affected properties will be determined by the Engineer and are, in general, those properties that fall within 500 feet of the limits of the work.

The surface of all structural steel plating used by the Contractor to bridge any excavation in the public right-of-way shall have a non-skid coating (e.g. "Skid Guard") with a minimum coefficient of friction = 0.35 per California Test Method 342 for all steel plates within the traveled roadway of streets and alleys, and 0.50 per ASTM C 1028 for those steel plates in pedestrian crosswalks or accessible areas. The non-skid coating shall be black. When required by the Engineer, the Contractor shall certify in writing to the City that the steel plates to be used in the Work meet the required static coefficient of friction. Also when required by the Engineer, the Contractor shall have the steel plates to be used in the Work tested in accordance with the above standards for the verification of the required static coefficient of friction. Testing shall be done by an independent laboratory approved by the Engineer. The Contractor shall pay for any costs associated with the testing of the steel plates.

Within any improved area (adjacent surface to trench is either asphalt or concrete), steel plate trenches shall be recessed into the existing paved roadway surface equal to the depth of the plate thickness and to a width and length equal to the dimension of the plate by cold milling.

The Contractor shall submit to the Engineer for approval a procedure for securing the plates to prohibit movement prior to implementation.

It shall be the Contractor's responsibility to notify the appropriate utility companies listed in these Project Specifications and the other agencies listed below when access to the public right-of-way is altered in any way.

UTILITY COMPANY / AGENCY	PHONE NUMBER
Orange County Fire Department (business office)	(714) 573-6000
Orange County Sheriff's Office (non-emergency dispatch)	(714) 288-6742
Orange County Transportation Authority (bus dispatch)	(714) 265-4331
CR & R Waste and Recycling Company (customer service)	(877) 728-0446
City of San Clemente Utilities Division	(949) 366-1553
Southern California Gas Company (24-hr. dispatch)	(800) 624-8153
San Diego Gas & Electric (Steve Campbell)	(949) 361-8080
Cox Communications (construction service) (Brian Hunter)	(949) 279-7528
ATT/SBC (Greg Blanda)	(949) 348-4130
City of San Clemente Electrical Division (Don Rosensteel)	(949) 361-8347
City of San Clemente Water Quality Division (B. Hoffenberg)	(949) 289-3758
San Clemente USPS (carrier supervisor)	(949) 492-3965
United States Post Office	(800) 275-8777

Payment shall be made at the Lump Sum price bid for traffic control and temporary striping and considered full compensation for all labor, materials, tools, equipment and incidentals needed to accomplish the work included temporary striping required or directed by the Engineer.

**CONSTRUCT TYPE E TRAFFIC DETECTION LOOP PER CALTRANS STD. PLAN  
ES-5B**

Where indicated on the plans, loops shall be circular and shall conform to the following Section 86-5.01A:

- a) Loop wire shall be Type B
- b) Sealant shall be State of California Specification No. 8040-01f-06 CRAFCO Brand or equal. Sealant shall have an application temperature of 400 degrees F and shall completely fill the slots.
- c) All slots shall be washed clean and vacuumed dry before sealant is applied.
- d) Applicator Type B KB-100 slautterback HI-WAY applicator is accepted.

Lead-in cable shall be connected in accordance with the manufacturer's instructions for one and two-channel configurations.

Circular loops shall be 6 feet in diameter and spaced 10 feet apart unless shown otherwise on plan. The **CONTRACTOR** is to core drill a round traffic signal loop using a six-foot diameter core bit with diamond impregnated segments. The slots shall be vertical and 0.500 inches wide by 3.0 inch minimum in depth to a maximum depth not exceeding the asphalt pavement depth. No other holes or means of anchoring a router or flatsaw to perform the cut will be accepted.

All adjacent loops shall be wound in alternating directions (i.e. CW, CCW, etc.) to provide a uniform field over the loop network. Each loop shall consist of three turns of conductor unless otherwise noted.

Where loop wires leave the roadway behind the curb or edge of pavement, they shall be tightly twisted together with a minimum of five (5) turns per foot.

All loops shall be connected in series. Splices shall use butt-splice connectors and shall be soldered by the hot-iron, pouring or dipping method. No open flame shall be used on soldered connections.

Each end of each DLC and loop wire shall be marked with colored tape as follows:

- PHASE 1 - BROWN
- PHASE 2 - RED
- PHASE 3 - ORANGE
- PHASE 4 - YELLOW
- PHASE 5 - GREEN
- PHASE 6 - BLUE
- PHASE 7 - WHITE
- PHASE 8 - GRAY

Wires for each loop shall be marked with bands of colored tape to designate loop number, starting at the crosswalk in the number 1 lane and proceeding away from the intersection, then to the crosswalk in the number two lane, and so on.

Megger and continuity tests shall be made prior to placement of sealant and after installation is complete. The CONTRACTOR shall also 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 un-laden weight of the vehicle shall not exceed 200 pounds and the engine displacement shall not exceed 100 cubic centimeters. Special features or components for vehicles designed to activate the detector will not be permitted. The CONTRACTOR shall provide an operator who shall drive the motor-driven cycle through the response or detection area of the detector at not less than 3 miles per hour or more than 7 mile per hour. The detector shall provide an indication in response to this test.

Hot-melt sealant shall be packaged in containers clearly marked "Detector Loop Sealant" and specifying the batch and lot number of the manufacturer. Loop conductors shall be installed without splices and shall terminate in the nearest pull box. In addition to the requirements for splices in detector circuits, the open end of cable jackets or tubing shall be sealed in a manner similar to the splicing requirements to prevent the entrance of water. The loops shall be joined in the pull box in combination of series and parallel so that optimum sensitivity is obtained at the sensor unit. Final splices between loops and lead-in cable shall not be made until the operation of the loops under actual traffic conditions is approved by the Engineer. All loop conductors for each direction of travel for the same phase of a traffic signal system, in the same pull box, shall be spliced to a detector lead-in cable which shall be run from the pull box adjacent to the loop detector to a sensor unit mounted in the controller cabinet. All loop conductors for traffic monitoring shall terminate in a pull box or terminal strip in the traffic monitor station cabinet when a cabinet of that type is installed. Conductors for inductive loop traffic signal and traffic monitoring installations shall be identified and banded, in pairs, by lane, in the pull box adjacent to the loops and near the termination of the conductors in the controller or traffic monitoring station cabinet.

Payment shall be per the unit price for each Type E loop installment. The bid unit price for this item shall include all the labor and material. No additional compensation will be allowed.

**CONSTRUCT TYPE D TRAFFIC DETECTION LOOP PER CALTRANS STD. PLAN ES-5B (BICYCLE LOOP DETECTION)**

Where loops are to be used, the specification for bicycle loop detection is the Type D Loop and the Type C Loop, per Standard ES-5B, page 499, in the 2010 California Standard Plans, to be used as follows:

- Type D loop(s) that are closest to the limit line:
  - Placed as the first loop in all left-turn lanes;

- Placed as the first loops in all thru-lane approaches that are not on recall, or to the satisfaction of the City Engineer;
- Placed as the first loop in all right-turn lane approaches that are not on recall. In the case of a double-right-turn lane, it would be only the right turn lane next to the curb, or to the satisfaction of the City Engineer.

Payment shall be per the unit price for each Type D loop installment. The bid unit price for this item shall include all the labor and material. No additional compensation will be allowed.

**TEMPORARY DRAINAGE INLET PROTECTION AND TEMPORARY CONCRETE WASHOUT**

Temporary drainage inlet protection shall be constructed, maintained, and removed at drainage inlets as required downstream of the project boundaries and within the project limits. Temporary drainage inlet protection shall be one of the water pollution control practices for sediment control. Under no circumstances shall construction runoff enter the storm drain system without adequate controls in place to capture and trap sediment. Throughout the duration of the project the Contractor shall provide protection to meet the changing conditions around each drainage inlet. Temporary drainage inlet protection shall be installed such that ponded runoff does not encroach on the traveled way or overtop the curb. Gravel-filled bags shall be placed to control ponding and prevent runoff from overtopping the curb. Temporary drainage inlet protection shall be maintained to provide sediment holding capacity. Temporary drainage inlet protection shall be repaired or replaced as needed. Sediment deposits, trash, and debris shall be removed and hauled away as needed or when directed by the project inspector. Removed sediment shall be deposited within the project limits so that the sediment is not subject to erosion by wind or by water. Trash and debris shall be removed and hauled offsite. Gravel-filled bags shall be replaced when the bag material ruptures or when the binding fails. Geotextile fabric shall be removed and replaced when torn. The fabric shall also be replaced with clean fabric when odors from stagnant, ponded water are present.

A portable temporary concrete washout shall be as follows:

- A. A portable temporary concrete washout shall be in place prior to placement of concrete and shall be located in the immediate area of the concrete work as approved by the Engineer. The temporary concrete washout shall be located away from construction traffic or public access areas. After initial placement, temporary concrete washout shall be moved as needed for concrete construction work. When the temporary concrete washout is no longer required, as determined by the Engineer, it shall be removed and disposed of in conformance with the provisions of the Standard Specifications.
- B. A sign shall be installed adjacent to each washout at a location determined by the Contractor and approved by the Engineer. Signs shall be installed in conformance with the provisions in Section 12-3.06B, "Portable Signs" of the Standard Specifications. Each portable sign shall consist of a base, framework and a sign panel. The sign panel shall be made out of plywood and shall have a minimum size of 48" x 24". The sign

panel shall read "Concrete Washout" with black letters, 6 inches in height, on a white background.

- C. The Contractor shall provide sufficient temporary concrete washout capacity to contain liquid and concrete waste generated by washout operations without seepage or spills.

Maintaining the portable temporary concrete washout shall include removing and disposing of concrete waste. Concrete waste material generated shall be removed each day and disposed of in conformance with the provisions in the Standard Specifications.

When relocating or transporting a portable temporary concrete washout, the portable washout shall be properly secured to prevent spilling of concrete waste material.

The lump sum contract price for temporary drainage inlet protection and temporary concrete washout shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in constructing the temporary drainage inlet protection, complete in place, including maintenance, periodic removal of materials, including cleanup and disposal of retained sediment and debris, disposing of concrete waste, and removing the washout, as necessary or as directed by the project inspector.

### **STREET SWEEPING & DUST CONTROL**

The Contractor shall control the tracking of sediment, grindings, asphalt concrete and other foreign materials from the project boundaries. Streets within the immediately vicinity to the project shall be kept clean at all times during the construction period. Street sweeping shall be conducted where sediment is tracked from the job site. Mobile sweeping will be required as needed throughout the project duration. The Contractor shall maintain at least one sweeper on the job site at all times during periods when sweeping work is required. Sweepers shall be self-loading, motorized, and shall have spray nozzles. Sweepers may include a vacuum apparatus.

Street sweeping shall start at the beginning of clearing and grubbing and shall continue until completion of the project, or as directed by the Engineer. Street sweeping shall be performed immediately after soil disturbing activities occur or offsite tracking of material is observed. Street sweeping shall be performed so that dust is minimized. If dust generation is excessive or sediment pickup is ineffective as determined by the Engineer, the use of water or a vacuum will be required.

Washing of streets will not be allowed unless all runoff is trapped, pumped and disposed offsite. Under no circumstances will construction water be permitted to enter into the storm drain system. Construction water entering the existing gutters shall be retained by the placement of sandbags or berms at the ends of each street. Trapped construction water shall be collected removed from the gutters at the end of each workday.

Dust control throughout the project will be required, including the sweeping of all streets within



the vicinity of the project. Mobile sweeping will be required as needed throughout the project duration. The use of water trucks to control dust should be anticipated, as needed, from the time the cold milling operation begins until the level course paving is completed. Payment for dust control shall be included in the Street Sweeping & Dust Control bid item. Payment shall be lump sum.

The contract lump sum price paid for Street Sweeping & Dust Control shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in street sweeping and dust control, including disposal of collected material. No additional compensation will be allowed.

### **SURVEY MONUMENT FIELD SEARCH**

In accordance with Section 8771 of the Business and Professions Code, the contractor will be required to hire a licensed land surveyor to inspect the project limits and identify all survey monuments found. The project shall be inspected following the City's notice to proceed and prior to beginning construction. The contractor's surveyor shall submit to the City a letter stating that "a reasonable and diligent field search was conducted" and list the monuments found. The letter shall be submitted to the City prior to construction. Payment for the survey monument field search shall be paid at the lump sum contract bid price.

### **TIE-OUT AND RE-ESTABLISH SURVEY MONUMENTS**

In accordance with Section 8771 of the Business and Professions Code, the contractor will be required to hire a licensed land surveyor to tie out monumentation affected by the project prior to commencement of construction and require the land surveyor to file corner records with the County Surveyor; and re-establish any such monuments damaged or destroyed during construction and file corner records with the County Surveyor after replacement.

The City shall determine which monuments found and listed in the contractor's surveyor's letter are to be tied out and re-established. Payment will be made at the contract bid price for each monument tied-out and re-established (tying-out and re-establishing is considered a combined unit of work for each monument).

Upon completion of the project, a Notice of Completion shall not be filed until the monuments have been restored and corner records filed to the satisfaction of the County Surveyor.

### **NON-BID ITEM: SOLID WASTE DISPOSAL AND RECYCLING SUMMARY REPORT**

The Contractor will be required to complete a Solid Waste Disposal and Recycling Report at the conclusion of the projects. All costs associated with the preparation and submittal of this report shall be included in the various bid items and no additional compensation will be allowed. See Exhibit "A" for more details.

**NON-BID ITEM: CRUSHED MISCELLANEOUS BASE**

Base material and construction shall conform to Sections 200-2 and 301-2 of the Standard specifications.

Untreated base materials shall meet the requirements of Section 200-2.2 for crushed miscellaneous base and these special provisions.

Evaluation of gradation and sand equivalent test results shall conform to the provisions of Subsection 400-1.4 . The gradation and sand equivalent requirements of Subsection 200-2.3, 200-2.4, 200-2.5, and 200-2.6 shall be the moving average requirements. Individual test requirement or gradation and sand equivalent shall be as determined by the EMA-Materials Lab.

Aggregate base (CMB) is required under all new p.c.c. improvements.

**NON-BID ITEM: RESTORATION OF PRIVATE PROPERTY**

The Contractor shall repair and restore all improvements, structures, property, vegetation, utilities and facilities disturbed, disconnected or damaged as a result or consequence of the Contractor's work or the operations of those for whom the Contractor is responsible or liable, including that caused by trespass with or without the Contractor's knowledge or consent, or by the transporting of workers, materials or equipment to or from the work site.

Damage caused by trespass or the transport of workers, materials, or equipment shall be repaired immediately by means and methods as approved by the Engineer.

Damage resulting from the Contractor's work shall be repaired immediately upon completion of said work. The Contractor shall submit construction details to the Engineer for approval prior to commencing any restoration necessitated by the Contractor's work.

**All restoration work shall be completed to the satisfaction of the Engineer and the appropriate property owners.**

Additionally, the Contractor shall be required to notify all affected residents and businesses three (3) working days in advance of the Contractor's work, using "City approved notices" furnished by the City. These notices shall be distributed at the beginning of the project and at other times during the Work as required to notify affected people in the area of impending work.

PAYMENT. Full compensation for Restoration of Private Property as specified shall be included in the various bid item prices and shall include full compensation for furnishing all labor, materials, tools and equipment and for completing all work involved in the restoration of private property as specified.

**NON-BID ITEM: PROTECTION & RESTORATION OF EXISTING IMPROVEMENTS**

Protection and restoration of existing improvements shall conform to Section 7-9 and as

described below.

The Contractor shall be responsible for the protection of public and private property adjacent to the work and shall exercise due caution to avoid damage to such property. The Contractor shall repair or replace all existing improvements within or adjacent to the area of work (i.e. lawns, trees, shrubs, hedges, fences, walls, sprinkler systems, sidewalks, driveways, curbs, gutters, valves, manholes, pavement, etc.) which are damaged or removed as a result of his operations. New improvements shall be constructed and modified to match existing improvements and existing field condition with proper grade. Repairs and replacements shall be equal to or better than existing improvements, and shall match them in finish and dimension. Old material shall be replaced with new materials.

Work performed under this section will ensure that the property will be restored to an "as good as" or "better than" condition as compared with conditions existing prior to commencement of construction. The Engineer shall determine whether or not the property has been restored satisfactorily.

Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in protecting and restoration of existing improvements is considered included in the various contract bid prices.

Contractor to conform with the following:

Remove and dispose of any waste which may be found within the scope of work.

Waste materials and debris produced from demolition and excavation of all native materials from the project site and not utilized as backfill will become the property of the contractor and shall be hauled and disposed of at the nearest County disposal site.

Impounded and nuisance water shall be drained by the Contractor at no extra cost to the City.

Stored materials to be kept within the construction site limits, but out of traffic lanes, as specified per Standard Specification Section 7-10.2.

Protect all trees, landscaping, fences, structures and utilities that have not been designated to be removed.

Contractor shall maintain and protect existing improvements, otherwise not shown as "to be removed", including street pavements. Any settlements or potholes or other damages to the street during the course of the construction along the project limit shall be repaired at Contractor's expense before proceeding further with the construction of scheduled improvements.

Any existing concrete sidewalks, pavement or curb and gutter damaged or removed due to the installation of improvements shall be replaced to match the existing improvement at no additional cost, if required. Extra care is to be taken to protect the existing pavement from heavy

equipment. *The contractor shall be held responsible for fatigue and resulting failure, cracks, buckling, gouges and scrapes. Patching and repair shall be made to the City Inspector's approval. "Repair" of A.C. required due to excessive loading (resulting in said fatigue cracks and failure) shall be interpreted as: remove existing A.C., replace with standard structural section specified for this project. Repair required due to excessive loading shall be made at the Contractor's expense. It is the Contractor's responsibility to inspect the condition of the existing pavement and choose appropriately sized equipment for the job.*

Where new construction, such as curbs, gutters, sidewalk and pavement, are to be joined by a new section, the existing slab or curbing shall be sawcut to provide a neat, clean joint. Sawcuts shall be made prior to removal of the old work of either Portland cement concrete or asphalt concrete.

The Contractor shall provide and maintain, at all times during construction, ample means and devices to promptly remove and properly dispose of all surface, ground and storm drain water entering the excavations or other parts of the work. No concrete footing or floor shall be laid in water nor shall water be allowed to rise over them until the concrete or mortar has been set at least eight (8) hours. Water shall not be allowed to rise unequally against walls for a period of twenty eight (28) days. Disposal of water from dewatering operations shall be the sole responsibility of the contractor. Disposal methods shall conform to the Porter Cologne Water Quality Control Act of 1974, the Federal Pollution Control Act Amendments of 1972, and the California Administrative Code, Title 23, Chapter 3.

At the end of the working day, all excavations shall be covered or barricaded per Cal-OSHA and City requirements.

**SPECIAL PROVISIONS  
EXHIBIT "A"**

**Solid Waste Disposal and Recycling  
Report**

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION  
**SOLID WASTE DISPOSAL AND RECYCLING REPORT**  
 CEM-4401 (NEW 11/2006)

**ADA  
 Notice**

For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

Project Name:	Type of Work:				Ongoing Report <input type="checkbox"/>	Final Annual Report <input type="checkbox"/>	
Contract Number:	Co./Rte/PM	Report for Calendar Year	[Note: Separate reports needed for each calendar year]				
Contractor Name:	Phone Number:		Fax:				
Street Address	City, State, Zip						
<b>Contractor Certification: I certify under penalty of perjury that the information provided in this form is complete and accurate.</b>							
Signature:			Print Name and Title:		Date of Report:		
<b>*NOTE: Earth and rock material must not be reported as either waste material diverted from or disposed of in landfills.</b>							
1	CHECK IF RECYCLER	CHECK IF LANDFILL	TYPE OF MATERIAL (Enter a letter for each type on a separate line): A = Asphalt Concrete; C = Concrete; M = Metal; D = Mixed Debris; W = Wood/Cleared Vegetation; O = Other [Please Describe] *See note above	TYPE OF ACTIVITY (Enter one activity per line) 1 = Source - Separated Materials Recycling 2 = On-Site Reuse 3 = Mixed Debris Recycling 4 = Reuse of Salvageable Items 5 = Disposal at Landfill or Transfer to Station 6 = Other [Please Describe] <sup>††</sup>	AMOUNT TAKEN TO LANDFILL (TONS)	AMOUNT DIVERTED FROM LANDFILLS TO A RECYCLING FACILITY (TONS)	AMOUNT GENERATED AND THEN REUSED ON THIS JOB (TONS)
2							
† Describe Material:							
†† Describe the Activity:							
<b>I have reviewed the information submitted in this report for completeness.</b>							
Resident Engineer's Name (Please Print):						Phone Number:	
Signature:						Date:	
3							

**SOLID WASTE DISPOSAL AND RECYCLING REPORT - INSTRUCTIONS**

CEM-4401 (NEW 11/2006)

**Section 1: To be completed by the contractor****Project Name:** Give a brief description of the project, e.g., "Route 1 widening in Fort Bragg, CA"**Type of Work:** Enter a general work description, e.g. "AC Grinding"**Ongoing Report:** Checking this box means this is an annual report for a continuing project. More reports will follow this one**Final Annual Report:** Checking this box means this report is for the calendar year of contract acceptance**Contract Number:** Enter District/EA**Co./Rte/PM:** Enter County/Route/Post-Mile**Report for Calendar Year:** The calendar year for which data was collected - January 1 to December 31 [Note: This report is an annual report. A separate report is needed for each calendar year]**Company Information:** Contractor Name, Phone Number, Fax Number, Street Address, City, State and Zip**Contractor Certification:** I certify under penalty of perjury that the information provided in this form is complete and accurate.Contractor should verify the data entered on this form, then sign the report and print your name, title, and date.  
Return this report to the resident engineer by January 15 of each calendar year or within 15 days of contract acceptance.**Section 2: To be completed by the contractor**

To count towards diversion, "solid waste" is defined as including any solid waste which would normally be disposed of at a disposal facility (PRC Section 41781 (b))

**\*NOTE: Earth and rock material must not be reported as either waste material diverted from or disposed of in landfills.****NAME AND LOCATION OF RECYCLING OR DISPOSAL FACILITY (or enter "reused" for materials generated and reused on this job)**Each address should be checked as either landfills or recycler. When using a recycling facility that exists inside a landfill, check recycler and do not check landfill. When the solid waste is generated and reused on the job, the word "Reused" should be entered in place of the address.**TYPE OF MATERIAL** Enter a letter for each type on a separate line:A = Asphalt Concrete, C = Concrete; M = Metal; D = Mixed Debris; W = Wood/Cleared Vegetation; O = Other  
[Describe the material when "Other" is selected]<sup>†</sup>**TYPE OF ACTIVITY** Enter a number for each activity one per line:1 = Source-Separated Materials Recycling; 2 = On-Site Reuse; 3 = Mixed Debris Recycling; 4 = Reuse of Salvageable Items;  
5 = Disposal at Landfill or Transfer to Station; 6 = Other [Describe the activity when "Other" is selected]<sup>††</sup>**AMOUNT TAKEN TO LANDFILL (Tons):** Enter the amount of any solid waste, in tons, that is generated on this project and taken to a landfill.**AMOUNT DIVERTED FROM LANDFILLS TO A RECYCLING FACILITY (Tons):** Enter the amount of any solid waste, in tons, that is generated on this project and taken to a recycling facility.

Solid waste from this job that is used in other projects, given to other agencies (county, city, etc.) or given to private individuals for reuse will be entered as taken to a recycling facility. In this case, check the activity as "Other" and describe who gets the solid waste in the row for other activity. (e.g. given to county, city or developer)

**AMOUNT GENERATED AND THEN REUSED ON THIS JOB (Tons):** Enter the amount of any solid waste, in tons, that is generated on this project and then reused.

TOTAL SOLID WASTE FROM EACH JOB SHOULD APPROXIMATE THE SUM OF THE THREE QUANTITIES ABOVE.

For calculating weights, some volume to weight conversions may be needed. These conversion factors may be found at the California Integrated Waste Management Board's (CIWMB) web site at:  
<http://www.ciwmb.ca.gov/LGLibrary/DSG/Appendix.htm#Conversion>**Section 3: To be completed by the resident engineer****I have reviewed the information submitted in this report for completeness.**Resident engineer please review the report. If the form is complete, sign and print your name, phone number, and date.  
Discuss and resolve with the contractor any deficiency on the form.

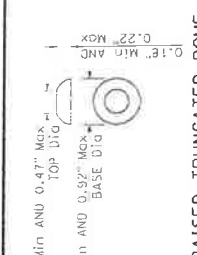
**SPECIAL PROVISIONS  
EXHIBIT "B"**

**Applicable Standard Plans**



David Cooper  
 CIVIL ENGINEER  
 License No. 41951  
 State of California  
 July 19, 2013

TO ACCOMPANY PLANS DATED \_\_\_\_\_



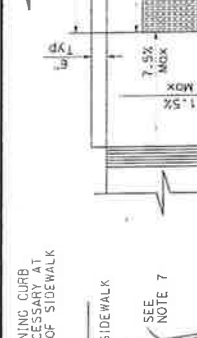
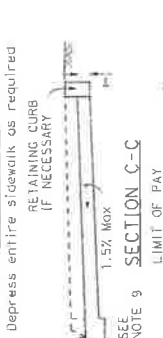
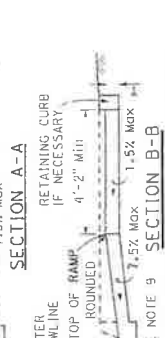
**RAISED TRUNCATED DOME**

**NOTES:**

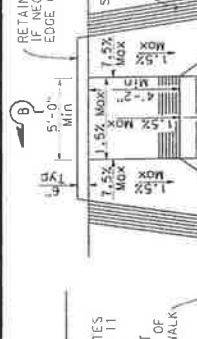
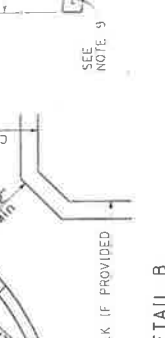
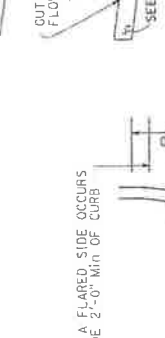
1. As site conditions dictate, Case A through Case G curb ramps may be used for corner installations similar to those shown in Detail A and Detail B. The case of curb ramps used in Detail A do not have to be the same. Case A through Case G curb ramps also may be used at mid block locations, as site conditions dictate.
2. 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.
3. When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B.
4. As site conditions dictate, the retaining curb side and the finished side of the Case G ramp shall be constructed in reversed position.
5. 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".
6. Side slope of ramp flares vary uniformly from a maximum of 9.0% of curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C and Case F.
7. The curb ramp shall be finished, as shown, with a 1'-0" wide border with 1/4" grooves approximately 7/8" apart. See grooving detail.
8. Transitions from ramps and landing to walks, gutters or streets shall be flush (no lip) and free of abrupt changes.
9. Counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 1:20 (5.0%), but the curb slope shall not exceed 1" of depth for each 2'-0" of width.
10. Curb ramps shall have a detectable warning surface that extends the full width and 3'-0" depth of the ramp. Detectable warning surfaces shall conform to the details on this plan and the requirements in the Standard Specifications.
11. The edge of the detectable warning surface nearest the street shall be between 6" and 8" from the gutter flowing.
12. Sidewalk and ramp thickness, "T", shall be 3/2" minimum.
13. Utility pull boxes, manholes, vaults and all other utility facilities within the curb ramp area will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.
14. Detectable warning surface may have to be cut to allow removal of utility covers while maintaining full detectable warning width and depth.



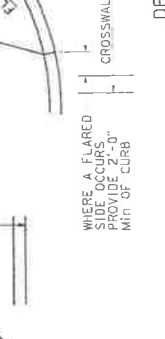
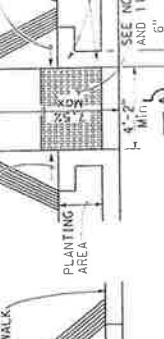
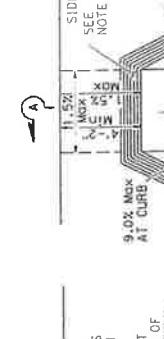
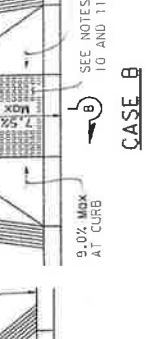
**CASE C**



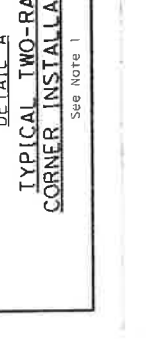
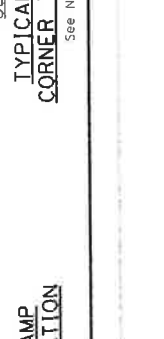
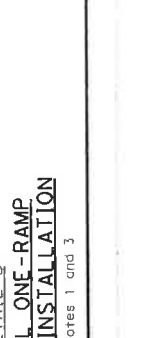
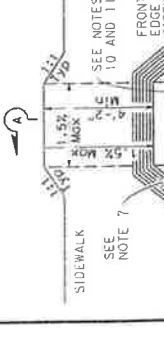
**CASE B**



**CASE B**



**CASE B**



**DETECTABLE WARNING SURFACE**  
 RAISED TRUNCATED DOME PATTERN (IN-LINE)



STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**CURB RAMP DETAILS**  
 NO SCALE  
 REVISED STANDARD PLAN RSP A88A  
 RSP A88A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A88A DATED MAY 20, 2011 - PAGE 121 OF THE STANDARD PLANS BOOK DATED 2010.

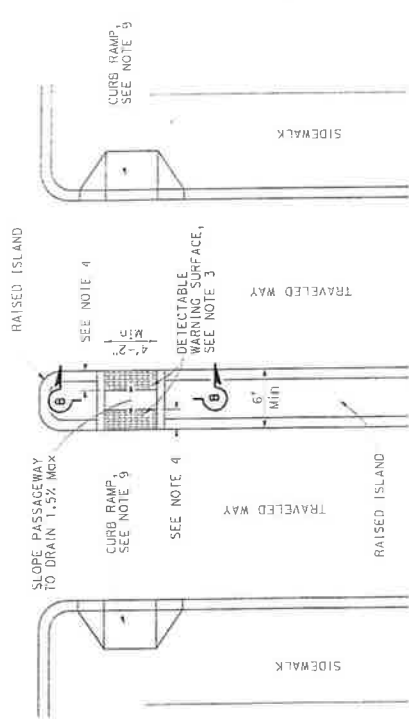
*H. David Cochran*

July 19, 2013

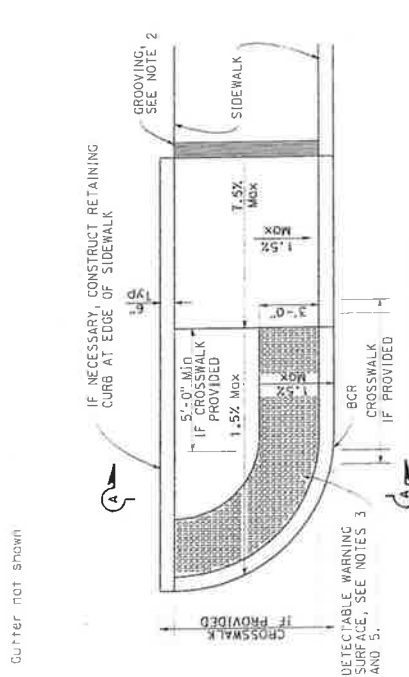
DATE: 7/19/13  
 DRAWN BY: H. D. COCHRAN  
 CHECKED BY: J. L. WILSON  
 PROJECT NO.: 041957  
 SHEET NO.: 3-11-14

TO ACCOMPANY PLANS DATED \_\_\_\_\_

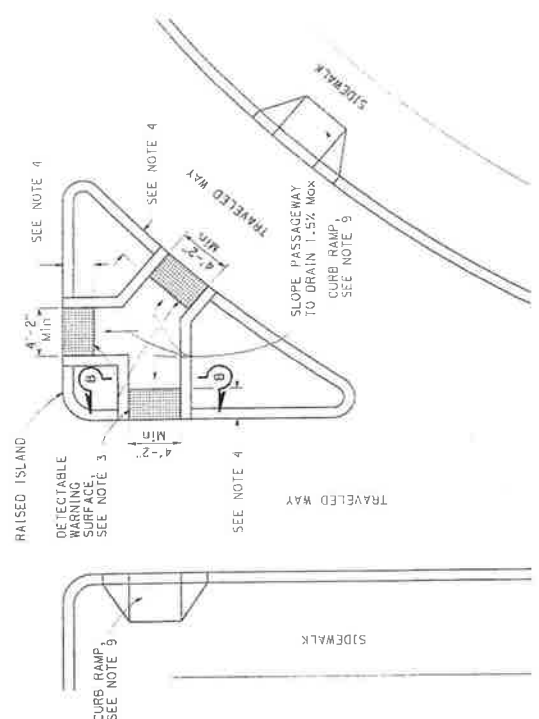
- NOTES:**
1. Sidewalk, ramp and passageway thickness,  $\frac{3}{4}$ " T, shall be  $\frac{3}{2}$ " minimum.
  2. For details of grooving used with Case CM curb ramp, see Revised Standard Plan RSP A88A.
  3. For details of detectable warning surfaces, see Revised Standard Plan RSP A88A.
  4. Where an island passageway length is greater than or equal to 6'-0", but less than 8'-0", each detectable warning surface shall extend the full width and 2'-0" depth of the passageway length. Where an island passageway length is greater than or equal to 8'-0", each detectable warning surface shall extend the full width and 3'-0" depth of the passageway length.
  5. For Case CM curb ramp, the edge of the detectable warning surface nearest the street shall be between 6" and 8" from the gutter flowline.
  6. Transitions from ramps to walks, gutters or streets shall be flush (no lip) and free of abrupt changes.
  7. 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.
  8. Detectable warning surface may have to be cut to allow removal of utility covers while maintaining full detectable warning width and depth.
  9. For additional curb ramp details, see Revised Standard Plan RSP A88A.



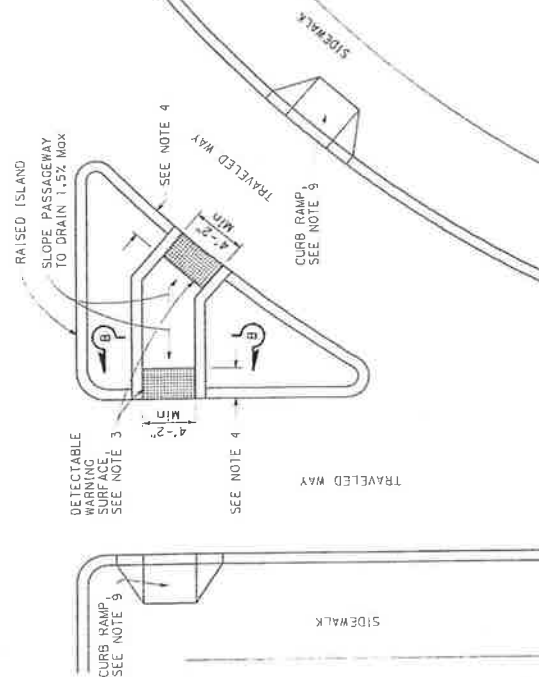
**TYPE A PASSAGEWAY**



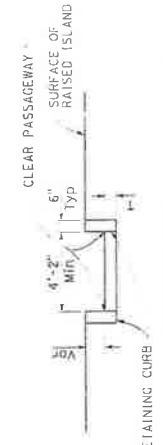
**CASE CM CURB RAMP**



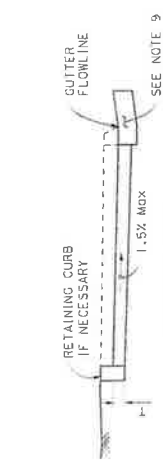
**TYPE B PASSAGEWAY**



**TYPE C PASSAGEWAY**



**SECTION B-B**



**SECTION A-A**

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

**CURB RAMP AND ISLAND PASSAGEWAY DETAILS**

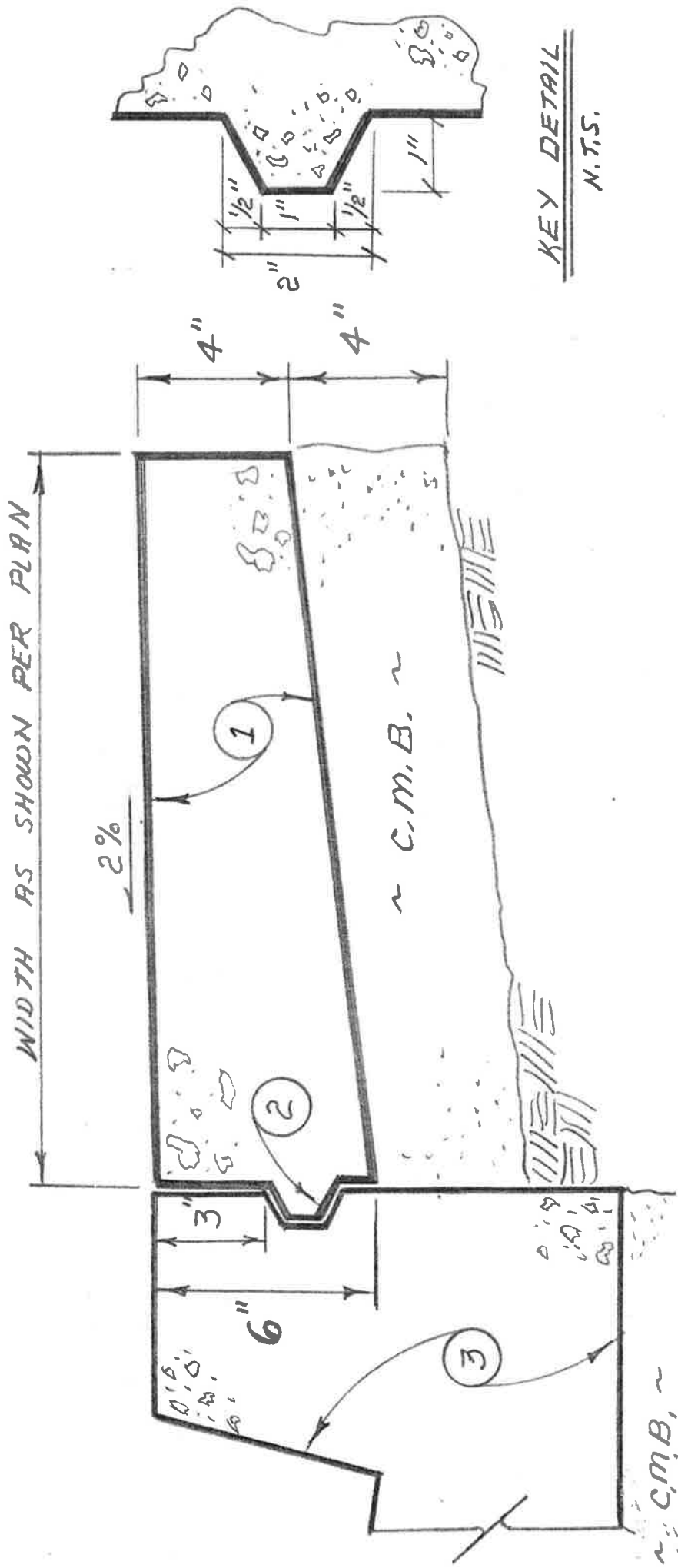
NO SCALE

RSP A88B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A88B DATED MAY 20, 2011 PAGE 122 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP A88B**

CURB & GUTTER / SIDEWALK - DIMENSION & KEY MODIFICATION DETAIL

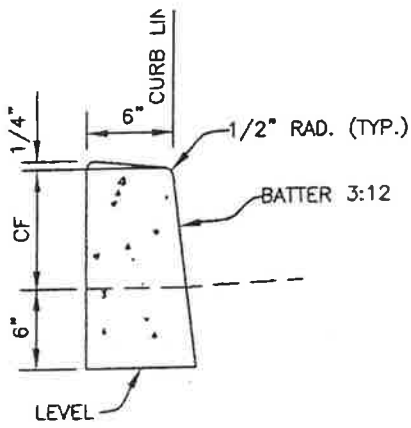
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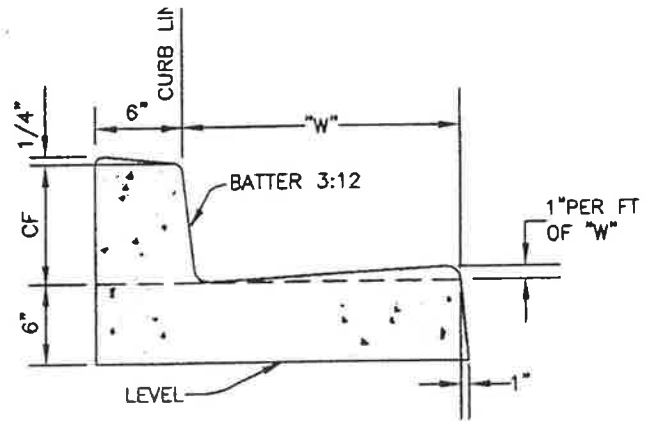
CONSTRUCT PCC SIDEWALK PER CITY OF SAN CLEMENTE STANDARD NO. ST-3 WITH DIMENSIONS MODIFIED AS SHOWN HEREON.

JOIN CURB & GUTTER CHAMFERED 1" x 2" KEY.

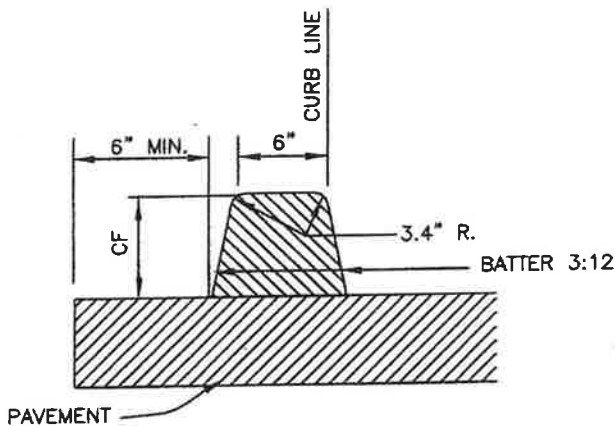
CONSTRUCT PCC CURB & GUTTER PER CITY OF SAN CLEMENTE STANDARD NO. ST-6 WITH KEY AS SHOWN HEREON.



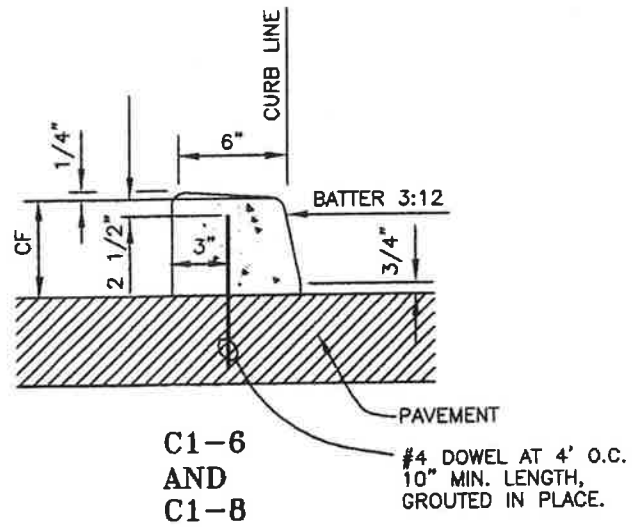
**A1-6  
AND  
A1-8**



**A2-6  
AND  
A2-8**



**D1-6  
AND  
D1-8**



**C1-6  
AND  
C1-8**

#4 DOWEL AT 4' O.C.  
10" MIN. LENGTH,  
GROUTED IN PLACE.

**NOTES:**

1. ALL DIMENSIONS ARE MEASURED IN INCHES.
2. CURB FACE HEIGHT IS THE LAST NUMBER IN THE DESIGNATION, "A2-6".
3. TYPES A1, A2, AND C1 ARE CONSTRUCTED OF PORTLAND CEMENT CONCRETE, CLASS 560-C-3250, TYPE V.
4. TYPE D1 IS CONSTRUCTED OF ASPHALT CONCRETE.
5. TYPE C1 CURB SHALL BE ANCHORED WITH DOWELS AS SHOWN OR WITH AN EPOXY MUST BE APPROVED BY THE CITY ENGINEER.
6. GRADE SHALL BE MEASURED AT TOP OF CURB.
7. RELATIVE COMPACTION REQUIREMENT FOR TOP 12" OF SUBGRADE IS 90%. WHEN CLASS II BASE IS USED UNDER STREET PAVEMENT, CLASS II BASE SHALL ALSO BE PLACED UNDER CURB AND GUTTER.
8. WEAKENED PLANE JOINTS SHALL BE PLACED PER CITY STANDARD PLAN, ST-3.
9. ALL SURFACES SHALL RECEIVE A MEDIUM BROOM FINISH AND APPLY CURING COMPOUND.
10. "W" IS 24" UNLESS OTHERWISE SPECIFIED.

APPROVED BY:

*W.E. Cameron*  
W.E. CAMERON, CITY ENGINEER

23764 7-16-02  
R.C.E. NO. DATE



**City of San Clemente**  
Public Works Department - Engineering Division

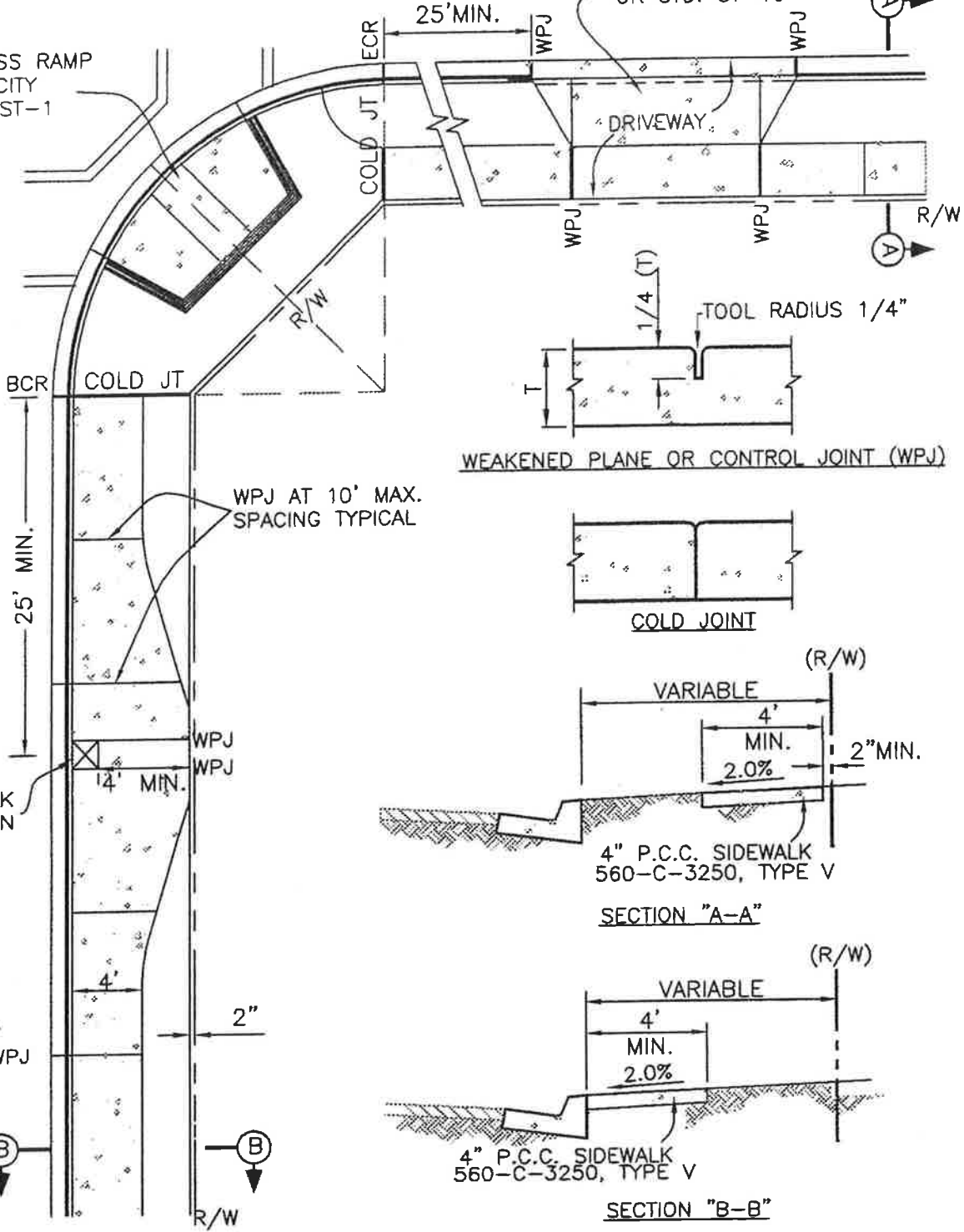
MARK	REVISIONS	APPR.	DATE

**Curbs And Gutters**

STD.NO.  
**ST-6**

ACCESS RAMP  
PER CITY  
STD. ST-1

DRIVEWAY DETAILS  
PER CITY STD. ST-9  
OR STD. ST-10



D:\star\ds\ST Stds\dwg\ST-3.dwg 10/09/01 03:38:02 PM PDT

APPROVED BY:

*W.E. Cameron*  
W.E. CAMERON, CITY ENGINEER

23764 R.C.E. NO. 7-16-02 DATE



**City of San Clemente**  
Public Works Department - Engineering Division

MARK	REVISIONS	APPR.	DATE

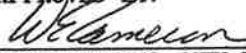

STD.NO.  
**ST-3**  
SHEET 1 OF 2

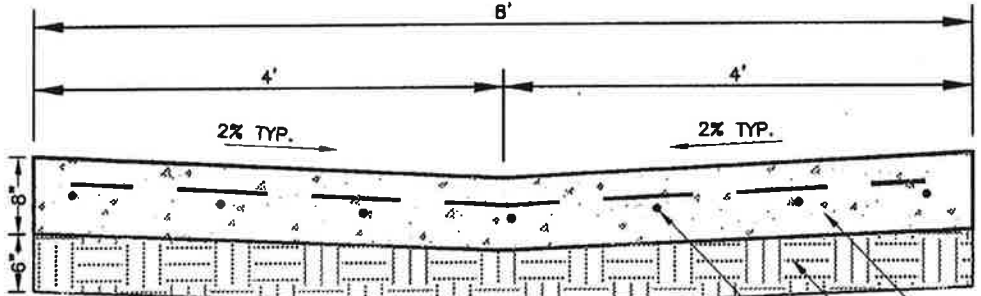
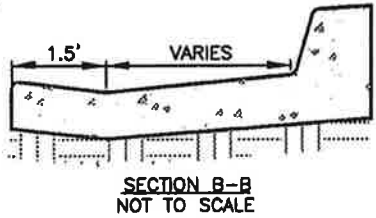
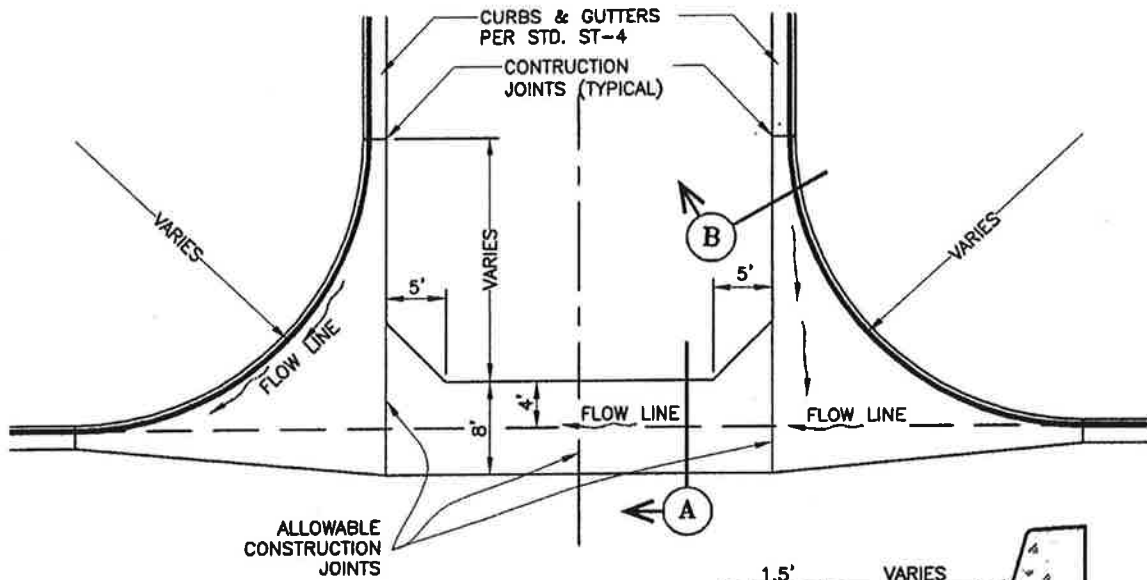
**Sidewalks**

**SIDEWALK CONSTRUCTION NOTES:**

1. CONCRETE AND RELATED MATERIALS INCORPORATED INTO CONSTRUCTION SHALL COMPLY IN ALL RESPECTS WITH SECTION 201 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK). ALL CONCRETE SHALL BE CLASS 560-C-3250, TYPE V CEMENT, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
2. CONCRETE REPAIRS SHALL BE MADE BY SAW CUTTING AND REMOVING THE ENTIRE UNIT BETWEEN WEAKENED PLANE JOINTS.
3. SIDEWALK THICKNESS SHALL BE 4" P.C.C. ON NATIVE (4" C.A.B. SHALL BE USED AS REQUIRED BY THE CITY ENGINEER).
4. ALL SUBGRADE SHALL BE CONSTRUCTED TO GRADE AND CROSS SECTION PER CITY STANDARD PLANS FOR APPLICABLE STREET SECTION.
5. SUBGRADE SHALL BE SCARIFIED AND COMPACTED TO A MINIMUM DEPTH OF 12 INCHES. 90% COMPACTION IS REQUIRED BEHIND THE CURB AND IN PARKWAY AREAS. AFTER COMPACTION, THE SUBGRADE SHALL BE FREE OF UNSUITABLE MATERIALS.
6. COLOR ADDITIVES OR PATTERN STAMPED CONCRETE SHALL NOT BE USED, EXCEPT WITHIN EXISTING AREAS WITH DECORATIVE SIDEWALK AS APPROVED BY THE CITY ENGINEER.
7. SIDEWALK AND CURB JOINTS SHALL BE ALIGNED, AT MAXIMUM 10 FEET INTERVALS.
8. WEAKENED PLANE JOINTS SHALL BE 1/4 OF THE DEPTH OF THE CONCRETE THICKNESS BUT NOT LESS THAN 1 INCH. CURBS AND GUTTERS SHALL HAVE WEAKENED PLANE JOINTS OF 2 INCH MINIMUM DEPTH.
9. NO WPJ OR MONOLITHIC CONCRETE PLACEMENT SHALL BE ALLOWED BETWEEN DRIVEWAYS AND SIDEWALK, SIDEWALK AND DRIVEWAY APPROACH, DRIVEWAY APPROACH AND CURB, OR CURB AND SIDEWALK.
10. TRANSIT MIXED CONCRETE DELIVERY TICKETS SHALL BE PROVIDED TO THE INSPECTOR PRIOR TO PLACING CONCRETE TO INSURE THAT THE CONCRETE MEETS SPECIFICATIONS.
11. ALL SURFACES SHALL BE TRUE AND STRAIGHT AND OF UNIFORM WIDTH, FREE OF HUMPS, SAGS, IRREGULARITIES AND IMPERFECTIONS. UNIFORM SURFACES SHALL NOT VARY MORE THAN 0.01 FOOT WHEN MEASURED WITH A 10 FOOT STRAIGHT EDGE.
12. ALL SURFACES SHALL RECEIVE A FINE BROOM FINISH.
13. UPON COMPLETION OF FINISHING OPERATIONS ALL SURFACES SHALL BE SPRAYED WITH CURING COMPOUND.

D:\star 's\ST Stds\dwg\ST-3.dwg 10/09/01 03:38:02 PM PDT

APPROVED BY:  W.E. CAMERON, CITY ENGINEER				23764 R.C.E. NO.	7-16-02 DATE		<b>City of San Clemente</b> Public Works Department - Engineering Division	
<h2 style="margin: 0;">Sidewalks</h2>						STD.NO.  <h2 style="margin: 0;">ST-3</h2>		
MARK	REVISIONS	APPR.	DATE	SHEET 2 OF 2				



SECTION A-A  
NOT TO SCALE

560-C-3250, TYPE V P.C.C.  
C.A.B.  
#4 BARS @ 12" BOTH WAYS

**NOTES:**

1. ALL CONCRETE SHALL BE CLASS 560-C-3250, TYPE V CEMENT.
2. CROSS GUTTER AND SPANDRELS THICKNESS SHALL BE 8" P.C.C. OVER 6" C.A.B.
3. ALL SURFACES SHALL RECEIVE A HEAVY BROOM FINISH.
4. IMMEDIATELY AFTER FINISHING OPERATIONS ARE COMPLETE, CURING COMPOUND SHALL BE APPLIED.
5. CONTRACTOR SHALL PROTECT THE CONCRETE WORK FROM ALL TRAFFIC AND CONSTRUCTION EQUIPMENT FOR AT LEAST SEVEN DAYS, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

D:\standards\ST\_Std\std.dwg\ST-6.dwg 12/06/2001 07:58:11 AM PST

APPROVED BY:  
  
 W.E. CAMERON, CITY ENGINEER  
 23764 R.C.E. NO. 7-16-02 DATE



**City of San Clemente**  
 Public Works Department - Engineering Division

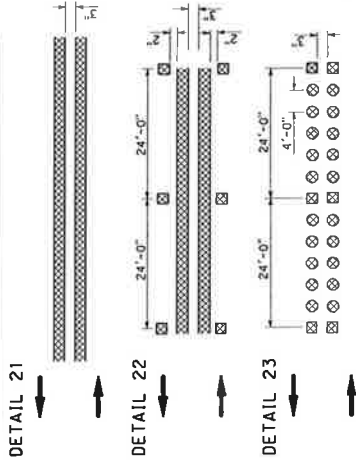
MARK	REVISIONS	APPR.	DATE

**Cross and Longitudinal Gutters**

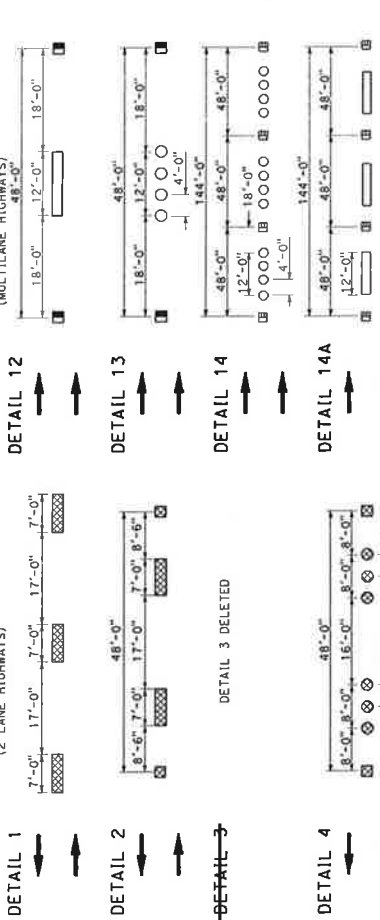
STD.NO.  
**ST-8**

SHEET COUNTY ROUTE POST MILE SHEET TOTAL SHEETS  
 REGISTERED CIVIL ENGINEER  
 PROJECT NO. 06-00000-00  
 SHEET NO. 2-3(13)  
 DATE MAY 20, 2011  
 APPROVED BY REGISTERED CIVIL ENGINEER  
 STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 DIVISION OF TRAFFIC ENGINEERING  
 DIVISION OF PLANNING  
 DIVISION OF DESIGN  
 DIVISION OF CONSTRUCTION  
 DIVISION OF MATERIALS  
 DIVISION OF OPERATIONS  
 DIVISION OF RESEARCH AND DEVELOPMENT  
 DIVISION OF SAFETY  
 DIVISION OF SPECIAL SERVICES  
 DIVISION OF TRAINING  
 DIVISION OF PUBLIC AFFAIRS

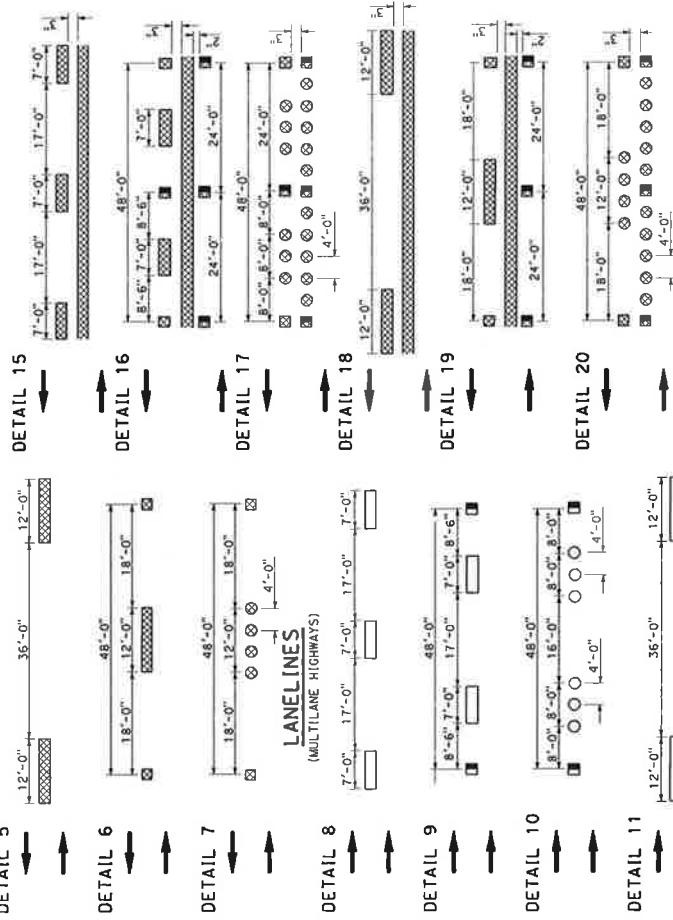
**NO PASSING ZONES-TWO DIRECTION**



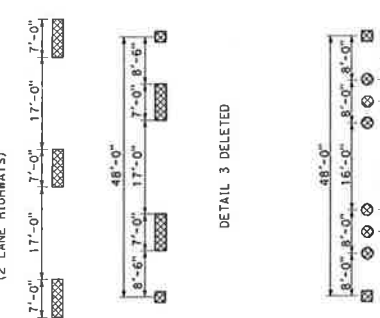
**LANELINES (Cont)**  
(MULTILANE HIGHWAYS)



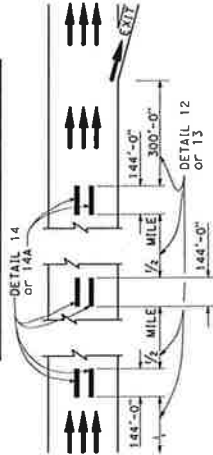
**NO PASSING ZONES-ONE DIRECTION**



**CENTERLINES**  
(2 LANE HIGHWAYS)



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



- LEGEND**
- MARKERS**
- TYPE A WHITE NON-REFLECTIVE
  - TYPE AY YELLOW NON-REFLECTIVE
  - TYPE C RED-CLEAR RETROREFLECTIVE
  - TYPE D TWO-WAY YELLOW RETROREFLECTIVE
  - TYPE E ONE-WAY CLEAR RETROREFLECTIVE
  - TYPE H ONE-WAY YELLOW RETROREFLECTIVE
- LINES**
- 4" WHITE
  - 4" YELLOW
- DIRECTION OF TRAVEL

**NOTE:**

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

**MARKER DETAILS**



**TYPE A AND TYPE AY**

**TYPE C AND TYPE D**

**TYPE G AND TYPE H**

RETROREFLECTIVE FACE

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKERS  
 AND TRAFFIC LINES  
 TYPICAL DETAILS**

NO SCALE

A20A



COUNTY ROUTE  
 POST MILE TOTAL PROJECT MILES  
 REGISTERED CIVIL ENGINEER  
 Roberto L. Macagno, Inc.  
 May 20, 2011  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF CALIFORNIA  
 REGISTERED CIVIL ENGINEER  
 No. 45113  
 EXPIRES 05/20/13  
 THE STATE OF CALIFORNIA HAS REVIEWED THIS PLAN AND APPROVES IT FOR THE CONSTRUCTION OF THE PROJECT DESCRIBED HEREON.  
 POINTS OF MEASUREMENT SHOWN.  
 POINTS OF MEASUREMENT SHOWN.

**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  
 DETAIL 32  
 DETAIL 33

**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 31

**RIGHT EDGELINE EXTENSION THROUGH INTERSECTIONS**  
 DETAIL 27C

**MARKER DETAILS**  
 TYPE AY  
 TYPE D  
 TYPE H  
 RETROREFLECTIVE FACE

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS**  
 NO SCALE  
**A20B**

START COUNTY ROUTE TOTAL PROJECT NO. SHEETS

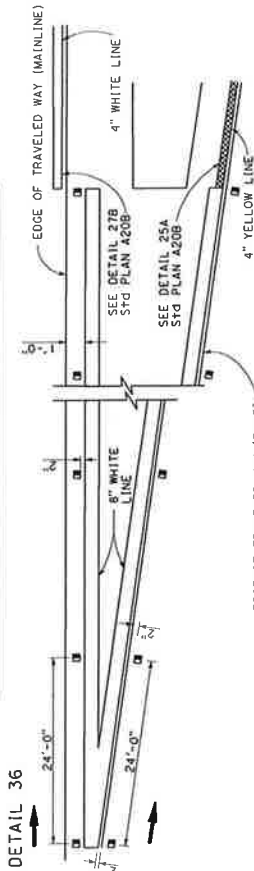
*Richard M. ...*  
REGISTERED CIVIL ENGINEER

APPROVED BY  
MICHAEL ...  
REGISTERED PROFESSIONAL ENGINEER

DATE: MAY 20, 2011  
PLANS APPROVAL DATE

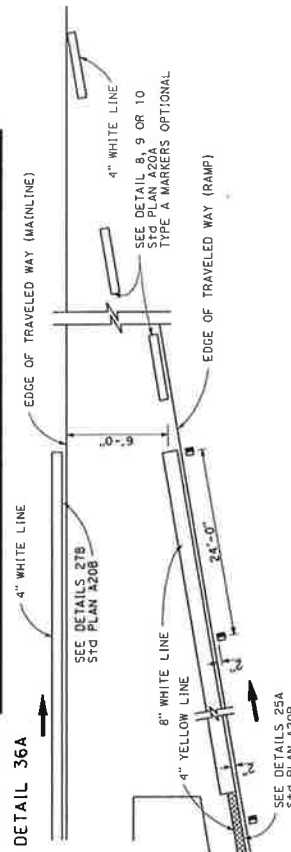
FOR STATE OF CALIFORNIA  
THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION  
THE ACTIVITY IS COMPLETELY RESPONSIBLE FOR THE DESIGN OF THIS PROJECT.  
CONTRACT NO. ...

**EXIT RAMP NEUTRAL AREA (CORE) TREATMENT**



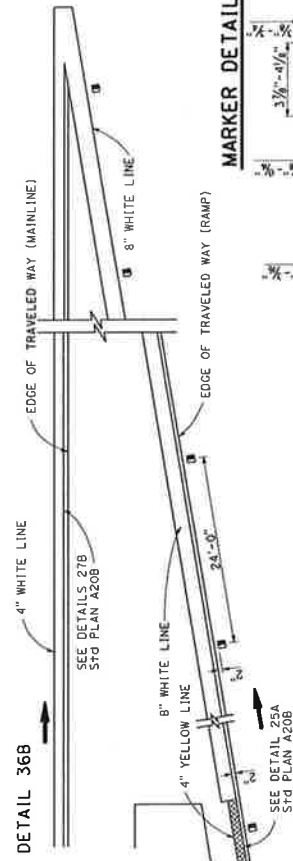
DETAIL 36

**ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT**



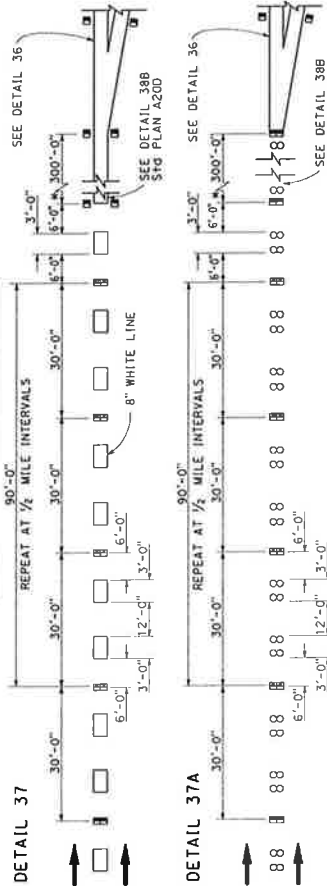
DETAIL 36A

**ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT**



DETAIL 36B

**LANE DROP AT EXIT RAMP**

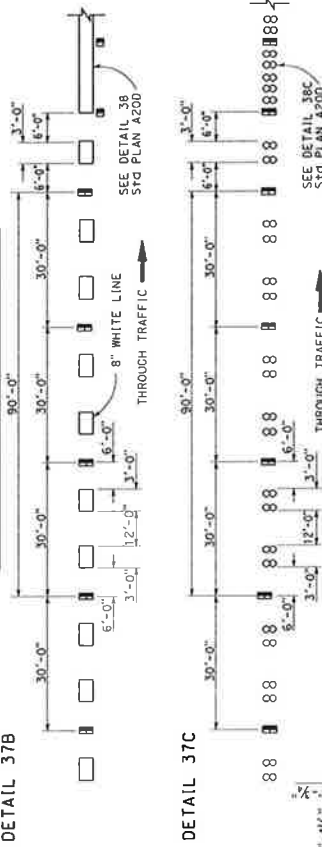


DETAIL 37

DETAIL 37A

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

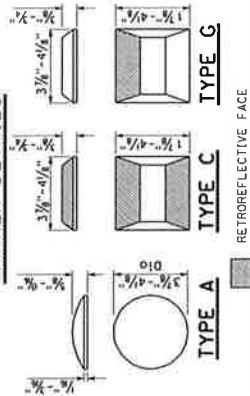
**LANE DROP AT INTERSECTIONS**



DETAIL 37B

DETAIL 37C

**MARKER DETAILS**



**LEGEND**

- MARKERS
- TYPE A WHITE NON-REFLECTIVE
  - ◻ TYPE B RED-CLEAR RETROREFLECTIVE
  - ◻ TYPE C RED-CLEAR RETROREFLECTIVE
  - ◻ TYPE G ONE-WAY CLEAR RETROREFLECTIVE
  - ➔ DIRECTION OF TRAVEL
  - ◻ RETROREFLECTIVE FACE

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKERS  
AND TRAFFIC LINE  
TYPICAL DETAILS**

NO SCALE

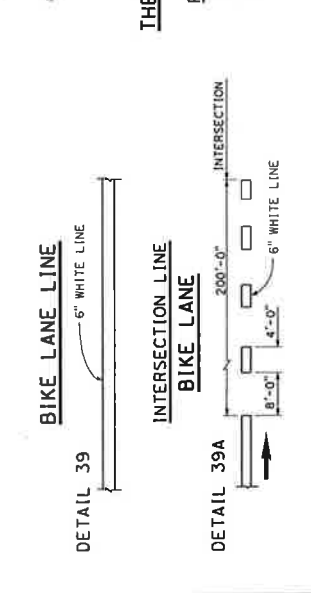
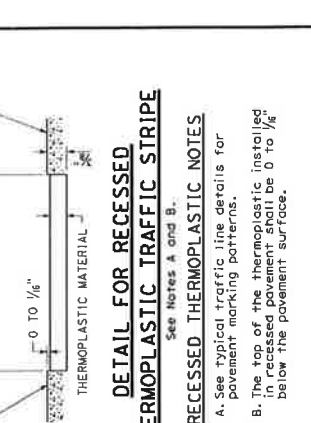
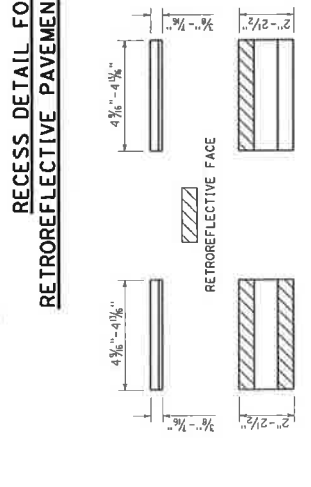
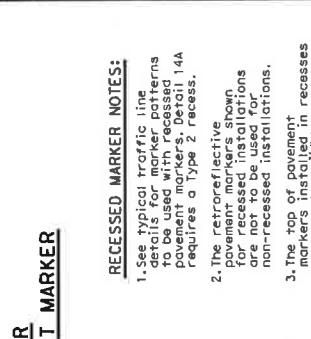
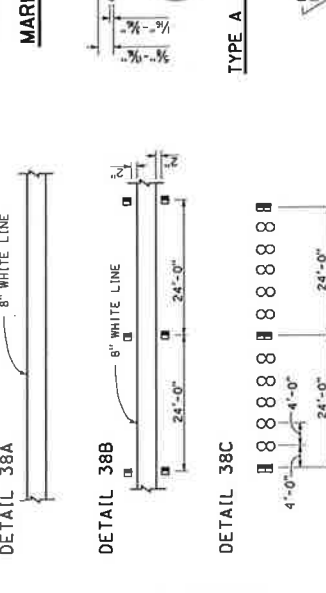
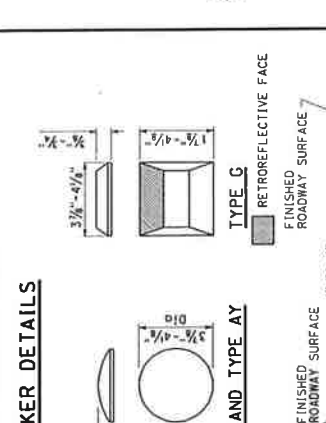
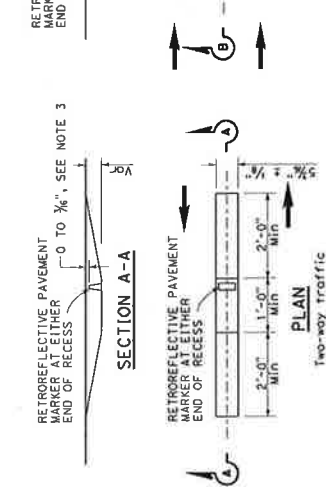
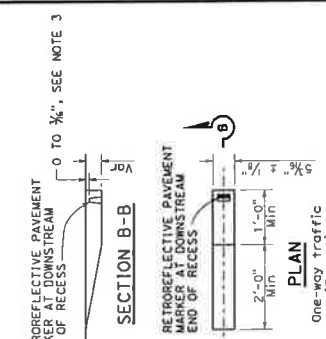
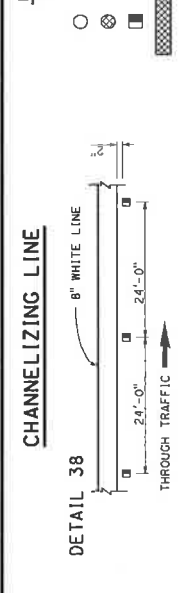
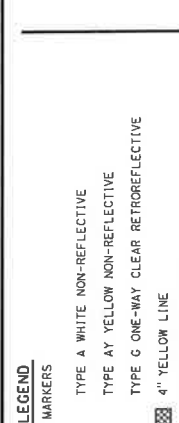
A20C

PROJECT COUNTY ROUTE DISTRICT SHEET NO. SHEETS

REGISTERED CIVIL ENGINEER  
 Robert M. McLaughlin  
 REGISTERED CIVIL ENGINEER  
 No. 10000  
 STATE OF CALIFORNIA  
 EXPIRES 12-31-11

PLANS APPROVAL DATE  
 MAY 20, 2011

FOR STATE OF CALIFORNIA BY THE DISTRICT ENGINEER  
 IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAYS  
 AND BRIDGES, 2008 EDITION, SECTION 202



**RECESSED MARKER NOTES:**

1. See typical traffic line details for marker patterns to be used with recessed pavement markers. Marking 14A requires a Type 2 recess.
2. The retroreflective pavement markers shown are not to be used for non-recessed installations. The top of pavement markers installed in recesses shall be 0 to 1/8" below the pavement surface.

**RECESS DETAIL FOR RETROREFLECTIVE PAVEMENT MARKER**

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

**RETROREFLECTIVE PAVEMENT MARKER FOR RECESSED INSTALLATION**

**DETAIL FOR RECESSED THERMOPLASTIC STRIPE**

See Notes A and B.

**RECESSED THERMOPLASTIC NOTES**

- A. See typical traffic line details for pavement marking patterns.
- B. The top of the thermoplastic installed in recessed pavement shall be 0 to 1/8" below the pavement surface.

**LANE LINE EXTENSIONS THROUGH INTERSECTIONS**

**CENTER LINE EXTENSIONS THROUGH INTERSECTIONS**

**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

CITY	COUNTY	ROUTE	POST MILES	SHEET NO.	TOTAL SHEETS

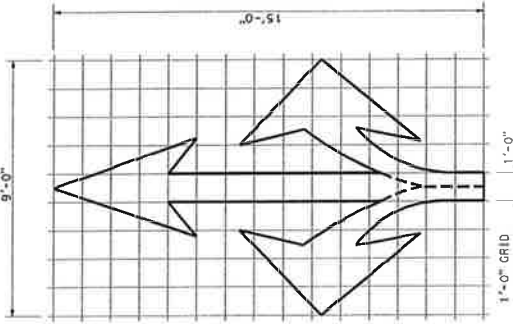
*Richard M. McKeon*  
REGISTERED CIVIL ENGINEER

APPROVAL DATE  
MAY 20, 2011

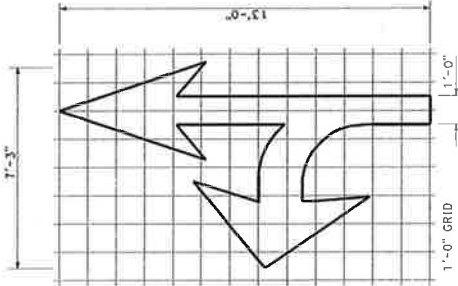
REGISTERED PROFESSIONAL ENGINEER  
ROBERT L. MCGONIGLE  
NO. 10135  
EXPIRES 12/31/12

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICES  
DO NOT WARRANT, GUARANTEE, OR  
ACCEPT ANY LIABILITY FOR THE USE OF THESE  
PLANS. THE USER OF THIS PLAN ACCEPTS  
ALL LIABILITY THEREFOR.

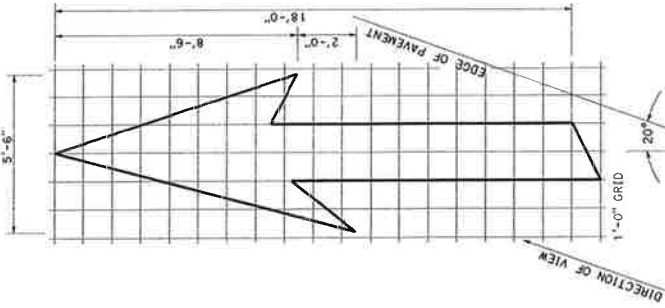


**TYPE VIII ARROW**



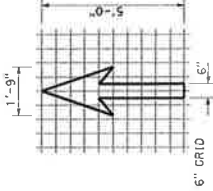
**TYPE VII (L) ARROW**

(For Type III (R) arrow, use mirror image)



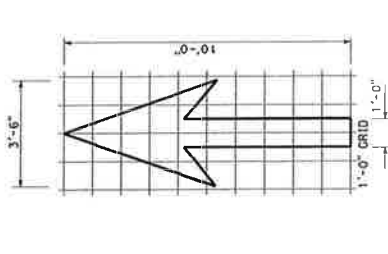
**TYPE VI ARROW**

Right lane drop arrow  
(For left lane, use mirror image)

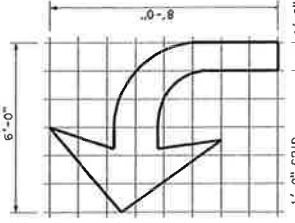


**TYPE V ARROW**

BIKE LANE ARROW

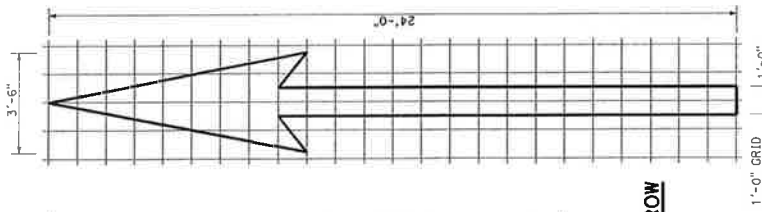


**TYPE I 10'-0" ARROW**

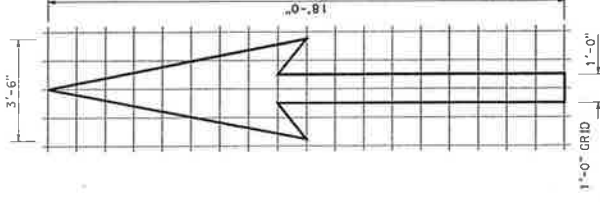


**TYPE IV (L) ARROW**

(For Type III (R) arrow, use mirror image)



**TYPE I 24'-0" ARROW**



**TYPE I 18'-0" ARROW**

**TYPE IV ARROW**

A=33 ft<sup>2</sup>

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

NO SCALE

**A24A**

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

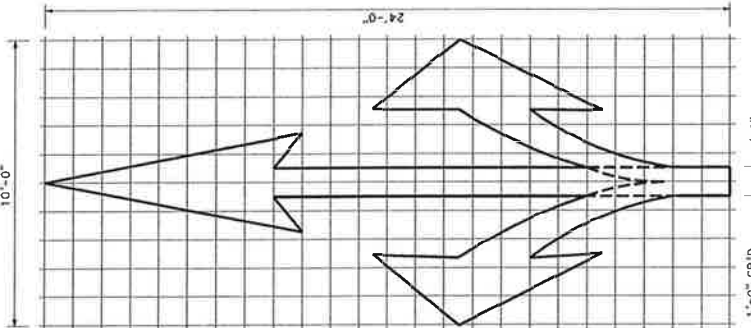
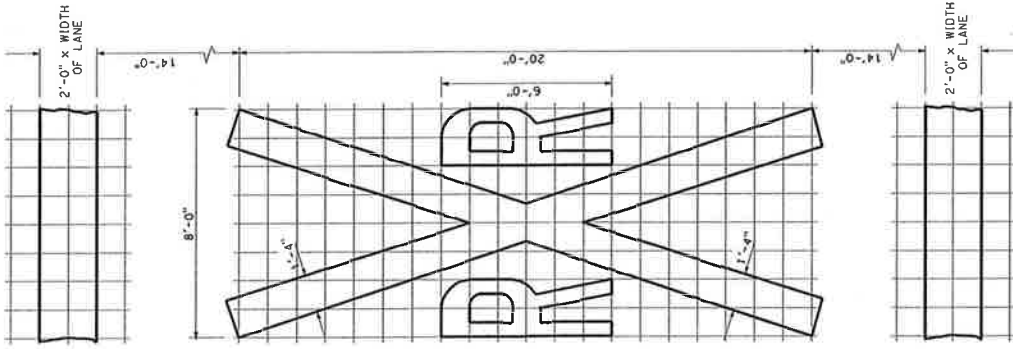
CITY	COUNTY	ROUTE	SHEET NO.	TOTAL SHEETS	PROJECT NO.	DATE

*Richard M. ...*  
REGISTERED CIVIL ENGINEER

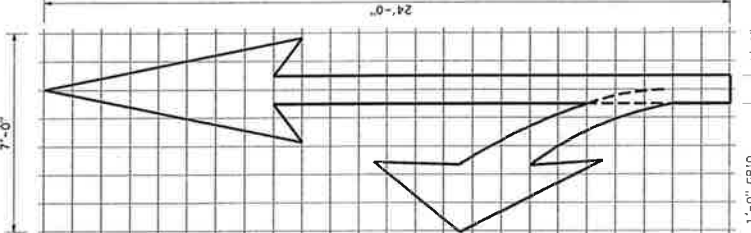
May 20, 2011  
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
STATE OF CALIFORNIA  
CIVIL ENGINEERING  
No. 40113  
Exp. 05/20/13

THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION  
ACCEPTS THESE PLANS FOR THE PROJECT OF ...  
CONTRACT NO. ...

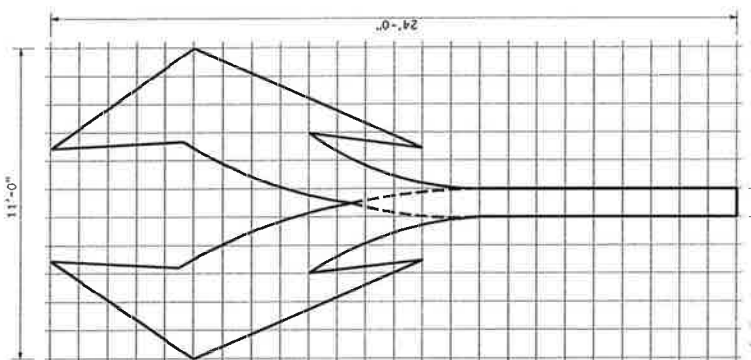


**TYPE II (B) ARROW**  
A=59 ft<sup>2</sup>

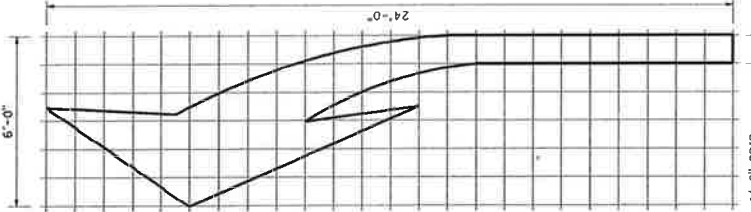


**TYPE II (L) ARROW**  
A=45 ft<sup>2</sup>

(For Type II (R) use mirror image)



**TYPE III (B) ARROW**  
A=73 ft<sup>2</sup>



**TYPE III (L) ARROW**  
A=42 ft<sup>2</sup>

(For Type III (R) use mirror image)

**NOTE:**

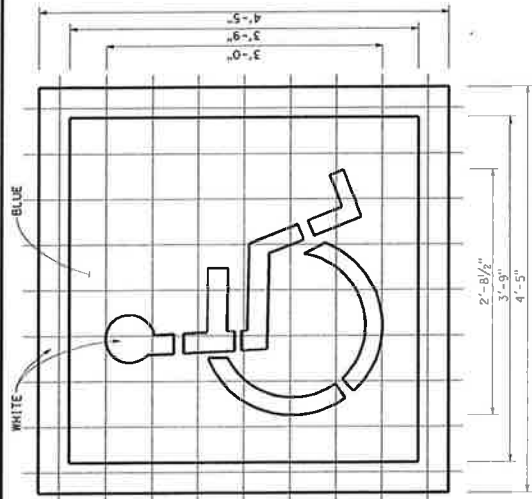
Minor variations in dimensions may be accepted by the Engineer.

**RAILROAD CROSSING SYMBOL**

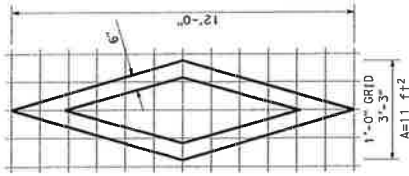
\* 70 ft<sup>2</sup> does not include the 2'-0" x variable width transverse lines.

A24B

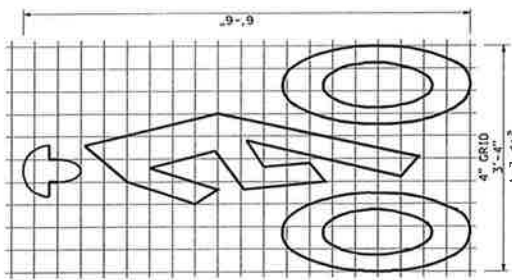
DIST COUNTY ROUTE POST MILES TOTAL PROJECT NO. SHEETS  
 REGISTERED CIVIL ENGINEER  
 Roberto L. Macgregorio  
 MAY 20, 2011  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 THE ACCURACY OF THE DIMENSIONS AND CONTENTS OF THIS PLAN SHEET  
 IS GUARANTEED BY THE REGISTERED CIVIL ENGINEER



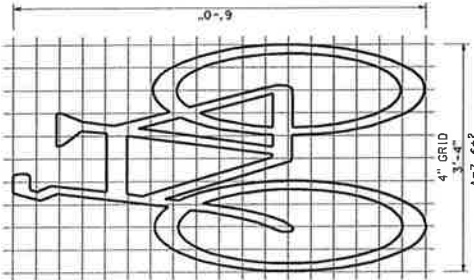
6" GRID  
 A (WHITE) = 9 ft<sup>2</sup>  
 A (BLUE) = 14 ft<sup>2</sup>  
**INTERNATIONAL SYMBOL  
 OF ACCESSIBILITY (ISA) MARKING**



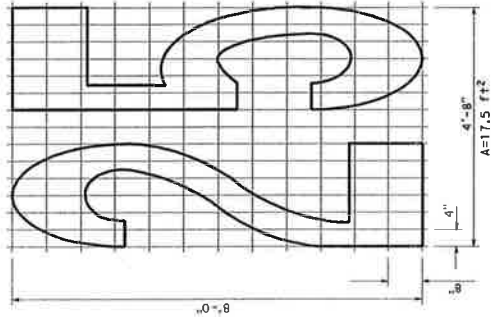
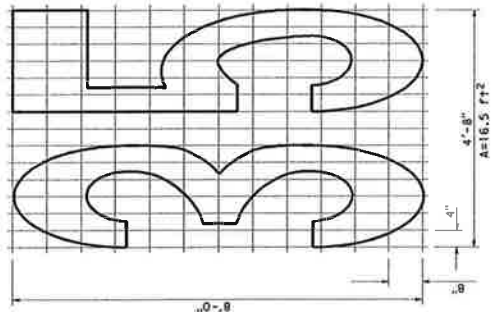
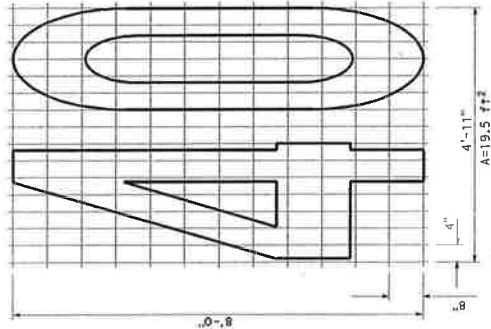
**DIAMOND SYMBOL**  
 A=11 ft<sup>2</sup>



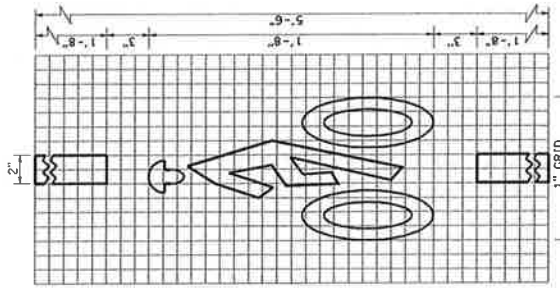
**BIKE LANE SYMBOL  
 WITH PERSON**  
 A=7 ft<sup>2</sup>



**BIKE LANE SYMBOL  
 WITHOUT PERSON**  
 A=7 ft<sup>2</sup>



**NUMERALS**  
 A=19.5 ft<sup>2</sup>  
 A=16.5 ft<sup>2</sup>  
 A=17.5 ft<sup>2</sup>



**BIKE LOOP  
 DETECTOR SYMBOL**  
 A=2 ft<sup>2</sup>

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

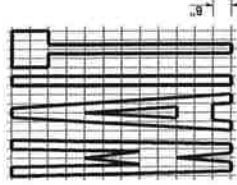
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKINGS  
 SYMBOLS AND NUMERALS**  
 NO SCALE  
**A24C**

STATE COUNTY ROUTE AND MILES TO NEAREST TOWN

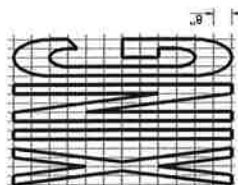
*Robert M. McLaughlin*  
REGISTERED CIVIL ENGINEER

PROFESSIONAL ENGINEER  
ROBERT M. MCLAUGHLIN  
NO. 10000  
EXPIRES 12-31-11  
STATE OF CALIFORNIA  
PLANS APPROVAL DATE  
MAY 20, 2011

FOR STATE OF CALIFORNIA OR ITS OFFICERS  
THE ACTING SUPERVISOR OF HIGHWAYS  
OFFICE OF HIGHWAY DESIGN



A=19 ft±



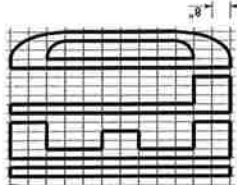
A=21 ft±



A=23 ft±



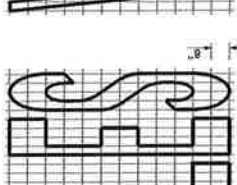
A=26 ft±



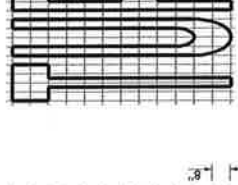
A=24 ft±



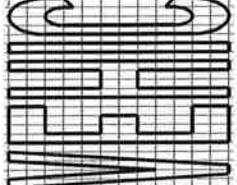
A=24 ft±



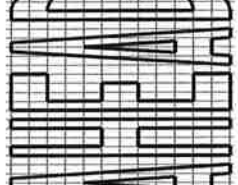
A=42 ft±



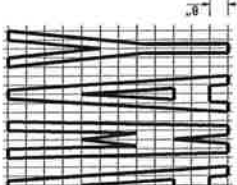
A=31 ft±



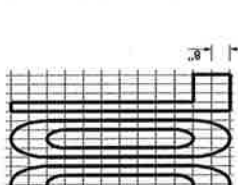
A=26 ft±



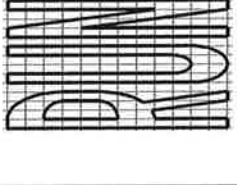
A=19 ft±



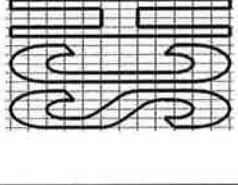
A=43 ft±



A=35 ft±



A=32 ft±



A=10 ft±

**NOTES:**

- If a message consists of more than one word, it should read "up", i.e., the first word should be nearest the driver.
- 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.
- Minor variations in dimensions may be accepted by the Engineer.
- Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.

**WORD MARKINGS**

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKINGS  
WORDS**  
NO SCALE

**A 24D**

DIST. COUNTY ROUTE 600' HILLS TOTAL PROJECT NO. SHEETS

*Richard M. McLaughlin*  
REGISTERED CIVIL ENGINEER

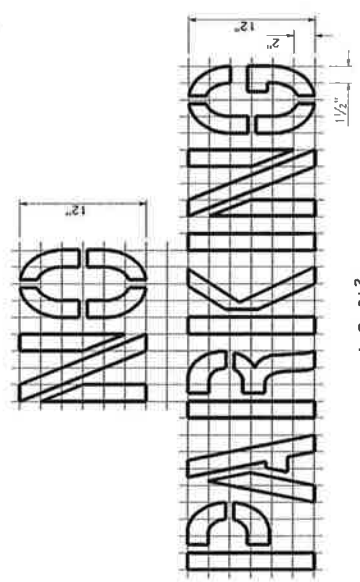
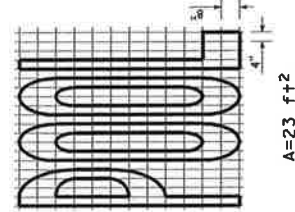
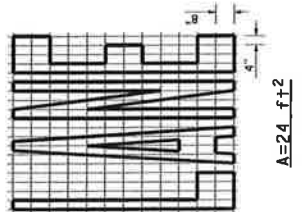
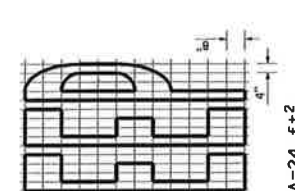
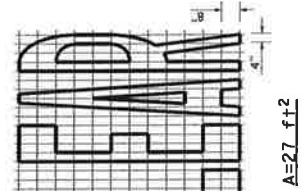
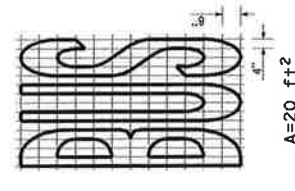
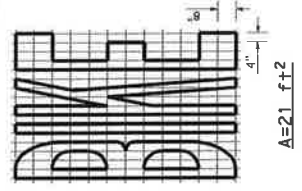
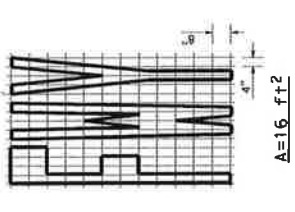
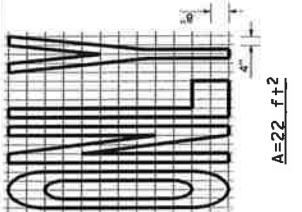
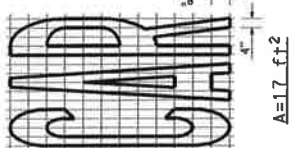
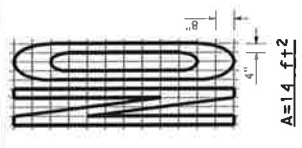
May 20, 2011  
PLANS APPROVAL DATE

REGISTERED UNDER THE SEAL  
REGISTERED UNDER THE SEAL  
REGISTERED UNDER THE SEAL

FOR THE STATE OF CALIFORNIA BY THE OFFICE OF THE REGISTERED PROFESSIONAL ENGINEERS AND ARCHITECTS  
FOR THE STATE OF CALIFORNIA BY THE OFFICE OF THE REGISTERED PROFESSIONAL ENGINEERS AND ARCHITECTS  
FOR THE STATE OF CALIFORNIA BY THE OFFICE OF THE REGISTERED PROFESSIONAL ENGINEERS AND ARCHITECTS

**WORD MARKINGS**

ITEM	FT <sup>2</sup>	ITEM	FT <sup>2</sup>
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



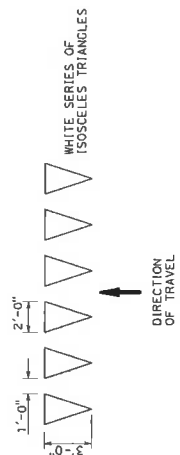
**NOTES:**

- If a message consists of more than one word, it should read "up", i.e., the first word should be nearest the driver.
- The space between words should be at least four times the height of the letters. The space between words may be more than ten times the height of the characters. The space may be increased appropriately where there is limited space because of local conditions.
- Minor variations in dimensions may be accepted by the Engineer.
- Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
- Crosswalks contiguous to school grounds are to be 1'-0" yellow lines in place of 1'-0" white lines.
- The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A50A and A50B.
- The words "NO PARKING" shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.



**CROSSWALK AND LIMIT LINE**

See Note 5



STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKINGS  
WORDS AND CROSSWALKS**

NO SCALE

**A24E**



# **SPECIAL PROVISIONS EXHIBIT “C”**

## **Estimated street 2.5” cold mill quantities**

Note: The City inspector may add additional areas to or delete areas from those listed on Exhibit “C”.

Street

Approx. cold mill area

La Pata southbound  
(Pico to Extremo)

7.5' x 19'	=	142.50 SF
11' x 44'	=	484
27' x 4'	=	108
9' x 9'	=	81
4.5' x 134'	=	603
13' x 36'	=	468
2.5' x 33'	=	82.50
3' x 72'	=	216
10' x 2.5'	=	25
5' x 92'	=	460
3' x 90'	=	270
5.5' x 4.5'	=	24.75
2' x 6'	=	12
7.5' x 6'	=	45
3' x 3'	=	9
8' x 45'	=	360
2.5' x 6'	=	15
9' x 37'	=	333
6.5' x 6.5'	=	42.25
7' x 9.5'	=	66.50
6.5' x 38'	=	247
5' x 68'	=	340
11.5' x 9'	=	103.50
3' x 24'	=	15
25' x 5'	=	125
14.5' x 7'	=	101.50
3' x 147'	=	441
6' x 15'	=	90
4.5' x 61'	=	274.50
3' x 70'	=	210
4.5' x 52'	=	234
11' x 15'	=	165
5.5' x 7.5'	=	41.25
9.5' x 9.5'	=	90.25
3.5' x 21'	=	73.50
4.5' x 18'	=	81
8.5' x 4'	=	34
23' x 14'	=	386
8' x 8'	=	64
6' x 22.5'	=	135

5'	x	11'	=	55
3'	x	11'	=	33
8'	x	6'	=	48
6'	x	11'	=	66
4'	x	40'	=	160
14.5'	x	8'	=	116
29'	x	17'	=	493
33'	x	16'	=	528
5'	x	9.5'	=	47.50
6.5'	x	5'	=	32.50
11'	x	8'	=	88
6'	x	5'	=	30
2.5'	x	22'	=	55
7'	x	3'	=	21
10'	x	13.5'	=	135
9'	x	26'	=	234
3'	x	99'	=	297
3'	x	3'	=	99
7.5'	x	34'	=	255
14'	x	16'	=	224
32'	x	5'	=	160
5'	x	8'	=	40
3.5'	x	74'	=	259
14'	x	11'	=	154
8'	x	8.5'	=	68
3'	x	10'	=	30
6'	x	10'	=	60
5.5'	x	76'	=	418
3.5'	x	9'	=	31.50
15.5'	x	15'	=	232.50
2.5'	x	18'	=	45
15.5'	x	5'	=	77.50
2.5'	x	16'	=	40
3.5'	x	17'	=	59.50
3.5'	x	16'	=	56
10'	x	3.5'	=	35
3.5'	x	43'	=	150.50
12'	x	20'	=	240
10'	x	8'	=	80
6.5'	x	25'	=	162.50
2'	x	34'	=	68
12'	x	388'	=	4656
12'	x	3'	=	36
7'	x	8.5'	=	59.50

3' x 11.5'	=	34.50
5.5' x 12'	=	66
6' x 38'	=	228
5.5' x 6.5'	=	35.75
5' x 5'	=	25
5' x 25'	=	125
4.5' x 25'	=	112.50
5' x 5.5'	=	27.50
3.5' x 38'	=	133
5.5' x 4'	=	22
4' x 4.5'	=	18
8' x 31'	=	248
11.5' x 24.5'	=	281.75
5' x 10'	=	50
4' x 12'	=	48
6' x 4'	=	24
3' x 3'	=	9
		<hr/>
		18,998.50 SF

Subtotal southbound

**Street**

**Approx. cold mill area**

La Pata northbound  
(Extremo to Pico)

5' x 143'	=	715 SF
14' x 41'	=	180
10.5' x 26'	=	273
3' x 8'	=	24
3' x 31'	=	93
13' x 15'	=	195
9' x 12'	=	108
3' x 25'	=	75
3' x 25'	=	75
3.5' x 82'	=	287
3' x 25'	=	75
4' x 10'	=	40
15' x 3'	=	45
21' x 8'	=	168
17' x 29'	=	493
16' x 44'	=	704
10.5' x 25'	=	262.50
3.5' x 8.5'	=	29.75
3.5' x 25'	=	87.50
3.5' x 43'	=	150.50

4' x 43'	=	172
4.5' x 60'	=	270
2.5' x 65'	=	162.50
10' x 19.50'	=	195
5' x 5'	=	25
10' x 31'	=	310
11.5' x 16'	=	184
14' x 13.5'	=	189
8.5' x 5'	=	42.50
14' x 3'	=	42
4' x 25'	=	100
25' x 4'	=	100
3' x 13'	=	39
3' x 24'	=	15
2.5' x 80'	=	200
18' x 9'	=	162
5' x 6'	=	30
2.5' x 24'	=	60
10' x 31'	=	310
25' x 15'	=	375
7' x 13'	=	91
14.5' x 41'	=	594.50
4.5' x 13'	=	58.50
6' x 29'	=	174
6' x 11'	=	66
8' x 45'	=	360
14' x 2.5'	=	35
7' x 13'	=	91
2.5' x 66'	=	165
3' x 25'	=	75
4' x 17'	=	68
2.5' x 56'	=	140
6' x 4'	=	24
7' x 37'	=	259
3' x 32'	=	96
6.5' x 5'	=	32.50
3' x 35'	=	105
8' x 17'	=	136
3.5' x 28'	=	98
6' x 49'	=	294
5' x 20'	=	100
16' x 3.5'	=	56
6' x 3.5'	=	21
3' x 61'	=	183
4.5' x 18'	=	81

3' x 19'	=	57
7' x 7'	=	49
14.5' x 26'	=	377
6' x 17'	=	102
3' x 27'	=	81
9' x 3.5'	=	31.50
2.5' x 36'	=	90
4.5' x 34'	=	153
4.5' x 32'	=	144
7' x 15'	=	105
11' x 189'	=	2079
2.5' x 10'	=	25
3' x 57'	=	171
3' x 77'	=	231
2.5' x 20'	=	50
3' x 22'	=	66
2.5' x 72'	=	180
4.5' x 22'	=	99
14' x 24'	=	336
7' x 9'	=	63
4' x 54'	=	216
12' x 4'	=	48
24' x 8'	=	192
28.5' x 7'	=	199.50
		<hr/>
		16,448.50 S.F.

Subtotal northbound

**Street**

La Pata northbound  
(Pico to Ave. Vista Hermosa)

**Approx. cold mill area**

42' x 27' = 1,134 SF

**Total cold mill**

**36,581 S.F.**

**SPECIAL PROVISIONS  
EXHIBIT “D”**

**East Jordan Iron Works, Inc.  
Ductile Iron Grate  
Product No. 00332631  
(Caltrans Type 24-10C)**

EAST JORDAN  
IRON WORKS, INC.  
P.O. BOX 439  
EAST JORDAN, MI. 49727  
1-800-874-4100  
FAX 231-536-4458

DRAWN JJJ	DATE 10/26/04
APPROVED	DATE

GRATE

PRODUCT NO.  
00332631

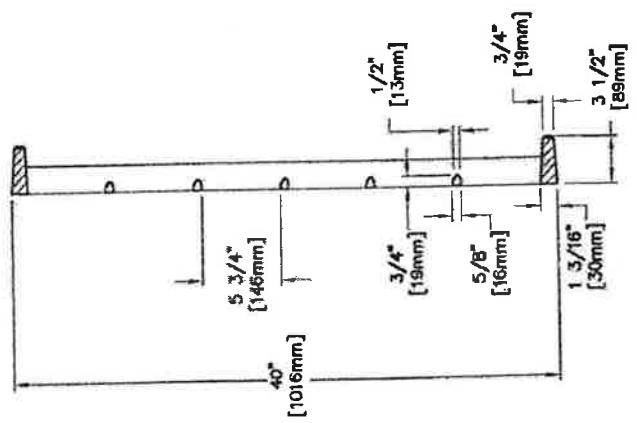
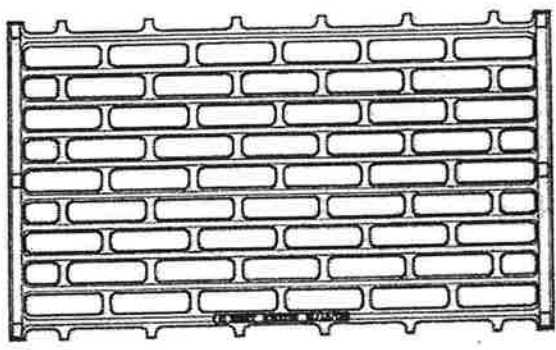
CATALOG NO.  
3326MDI

REF. PRODUCT DRAWING  
332631

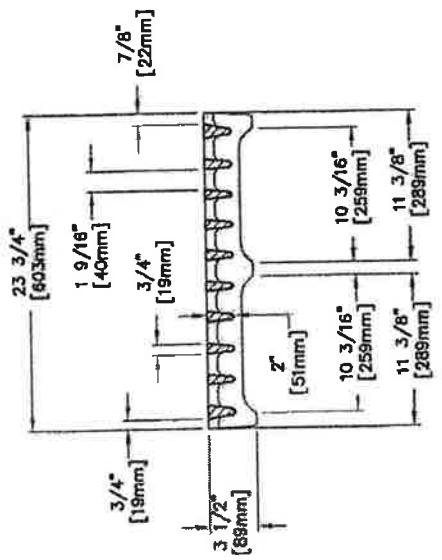
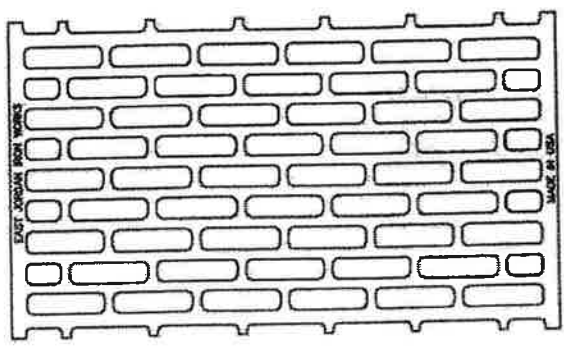
EST. WT.  
GRATE: 165 LBS 75kg

OPEN AREA  
529 SQ IN (3412 SQ CM)

MAT'L SPEC.  
GRATE - DUCTILE IRON  
ASTM 536



SECTION



SECTION



**SPECIAL PROVISIONS  
EXHIBIT "E"**

**South Bay Foundry  
9" Valve Box Triangle C/O  
SBF 1237**



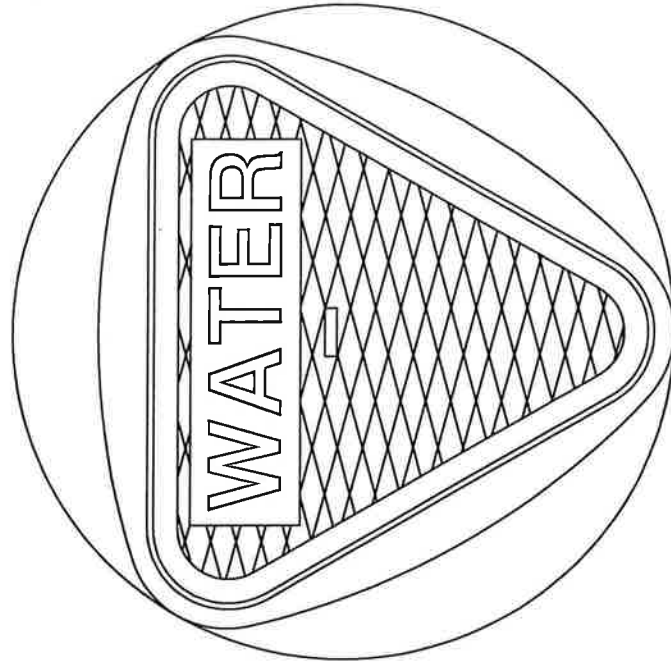
# South Bay Foundry

WWW.SOUTHBAYFOUNDRY.COM

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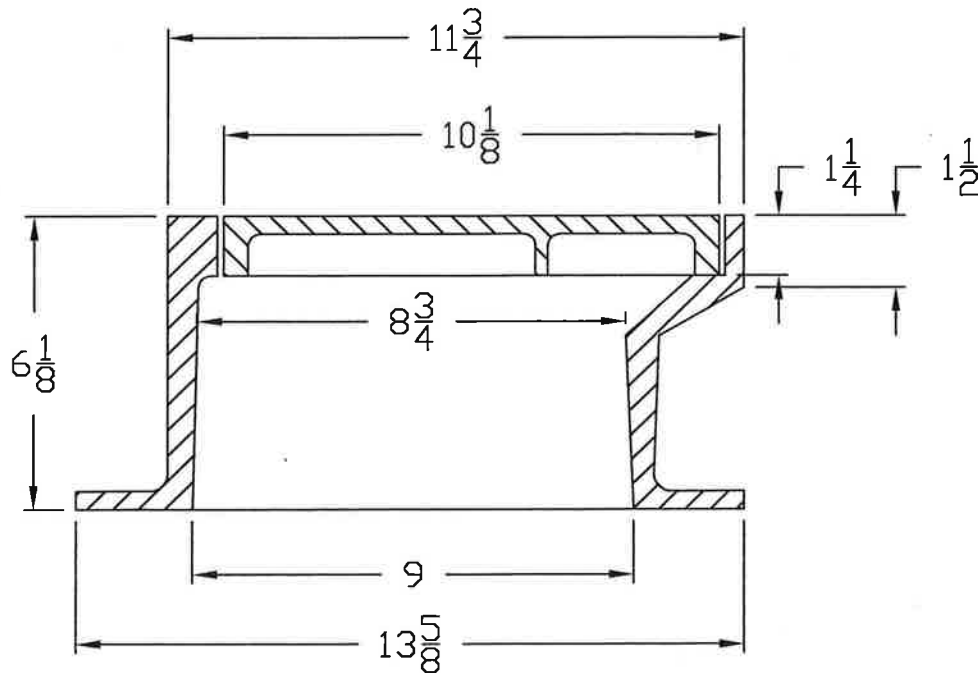
## SBF 1237

9" VALVE BOX  
TRIANGLE C/O



### SET WEIGHT

FRAME	45 LB
COVER	13 LB
<b>TOTAL</b>	<b>58 LB</b>



#### GENERAL INFORMATION

- \*MATERIALS CONFORM TO ASTM A48 CLASS 35B
- \*CASTINGS SHALL BE DIPPED IN BLACK BITUMINOUS PAINT
- \*FRAME AND COVER MEETS H-20 WHEEL LOADING

APPROVED

BY:

TITLE:

AGENCY:

DATE: