

**NOTICE TO BIDDERS**  
**PROPOSAL FORM**  
**SPECIFICATIONS**  
**and**  
**STANDARD CONTRACTUAL REQUIREMENTS**  
**Construction of**  
**FY15-16 STREET AND ALLEY IMPROVEMENTS**  
**Within the City of**  
**BEVERLY HILLS, CALIFORNIA**

**CIVIL ENGINEERING DIVISION  
PUBLIC WORKS SERVICES DEPARTMENT  
BEVERLY HILLS, CALIFORNIA**

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**Approved As To Form:**

**June 2016  
Project No. 2197  
Bid No. 16-20**

**City Attorney**

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<b><u>No.</u></b>	<b><u>Description</u></b>
BH104	Curb and Sidewalk Joints
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BH106	Residential Integral Curb and Gutter
BH107	Non-Residential Integral Curb and Gutter
BH108	Alley Approach
BH111	Longitudinal Alley Gutter
BH112	Longitudinal Alley Gutter at Manhole or Vault
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- PART 1 – Asphalt Rubber Hot Mix (ARHM)
- PART 2 – Engineering Geosynthetics, Paving Mat (High Strength) Interlayer
- PART 3 – Concrete Grinding
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- PART 5 – Microsurfacing Emulsion (MSE) Type II
- PART 6 – Feiberized Emulsion
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**APPENDIX D – STREET AND ALLEY LISTS**

**NOTICE TO BIDDERS**  
**for the**  
**FY15-16 STREET AND ALLEY IMPROVEMENTS**  
**within the City of**  
**BEVERLY HILLS, CALIFORNIA**  
**00000**

**BIDS** - Sealed proposals for the **FY15-16 STREET AND ALLEY IMPROVEMENTS** at various locations within the City of Beverly Hills, California, will be received up to the hour of 2:00 p.m., on Thursday, **July 14, 2016** at the office of the City Clerk of the City of Beverly Hills, located in Room 290 at 455 North Rexford Drive, Beverly Hills, California. Bids will be publicly opened at 2:00 p.m. on the above-mentioned date in the office of the City Clerk at City Hall and award of the contract will be made during a subsequent meeting of the City Council.

**SCOPE OF THE WORK** - The work to be done shall consist of furnishing all the required labor, materials, equipment, parts, implements, supplies and permits necessary for, or appurtenant to, the construction and completion of the project indicated above in accordance with Standard Drawings and the Specifications prepared for this project.

In general terms, the contract work for this project shall consist of the following items of work:

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
1	Mobilization, Traffic Control, & Demobilization (\$100 max.)	1	LS
2	Micro-mill AC 5/8" to 1"	13,000	SY
3	1" thin overlay PG 64-16 ARHM	700	TON
4	2" overlay PG 64-16 ARHM (Saturday work)	800	TON
5	Grind AC 2" to 2.5" average (range 1 to 3", 2" in most cases)	38,000	SY
6	Grind AC 2.5 to 3" average (range 2 to 4", 3" in most cases)	16,000	SY
7	Grind concrete 2" average (range 1" to 3")	900	SY
8	Crack seal (all streets after grinding)	1	LS
9	Install pavement interlayer (GlasPave 50 or equivalent)	30,000	SY
10	2" overlay PG 64-10 (3/8") HMA	3,700	TON
11	3" overlay PG 64-10 (3/8") HMA	2,100	TON
12	Microsurfacing emulsion (MSE) Type II	11,500	SY
13	eFlex MSE or equivalent	13,500	SY
14	R/R residential curb & gutter	600	LF
15	Pothole or section repair 8" PG 64-10 HMA over 6" CMB	5,000	SF
16	Furnish & install Qwick Kurb	205	LF
17	R/R non-residential curb & gutter (including dowels)	400	LF
18	R/R 10" concrete pavement over 6" CMB (including dowels)	1,200	SF
19	Message boards/traffic control	1	LS
20	R/R alley gutter	1,600	SF
21	R/R alley approach	2,000	SF
22	Grind AC 2" to 2.5" average (range 1 to 3", 2" in most cases)	135,000	SY
23	Crack seal (all alleys after grinding)	1	LS
24	Pothole or section repair 6" PG 64-10 HMA over 6" CMB	5,000	SF

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
25	2" overlay PG 64-10 (3/8") HMA	5,000	TON
26	R/R 6" PG64-10 (alley reconstruction, if necessary)	1,000	TON
27	Survey: tie out & reinstall marks (all locations)	1	LS
28	Install CMB or CAB (if necessary)	300	TON
29	R/R sidewalk (as needed)	1,000	SF
30	R/R access ramp	7,200	SF
31	Install truncated domes	2,000	SF
32	Striping and markings	1	LS
33	Adjust to grade manholes (if necessary)	20	EA
34	Adjust to grade water meter box (if necessary)	200	EA

Copies of the Specifications and Proposal Form may be inspected and downloaded from the City's webpage (<http://www.beverlyhills.org/business/bidrfpinformation/currentformalbidsrfps/>).

References in the project specifications to specific sections of the Standard Specifications refer to the book of "Standard Specifications for Public Works Construction", 2015 Edition, written by a Joint Cooperative Committee of the Southern California Chapter of the American Public Works Association and Southern California District of the Associated General Contractors of California. Contractors wishing to obtain this book may purchase copies directly from the publisher, Building News, Inc., 1612 South Clementine Street, Anaheim, California, 92802; (800) 873-6397.

**AMENDMENTS** - The second paragraph of Section 3-2.2.1 "Contract Unit Prices", of the Standard Specifications for Public Works Construction is deleted.

The fourth paragraph of Section 3-2.2.1 "Contract Unit Prices", of the Standard Specifications for Public Works Construction is deleted and replaced by the following: "Should any Contract item be deleted in its entirety, no payment will be made to Contractor for that Bid Item."

The following is in addition to the provisions of Section 2-9.1 of the Greenbook:

The Contractor is required to locate and tie out survey monuments in the project area prior to construction involving street and highways, and to file with the County Surveyor a Corner Record of any such work. Prior to the issuance of a completion certificate, the Contractor is required to file a Corner Record for survey monumentation that is replaced. All such survey work shall be performed under the supervision of a California licensed Land Surveyor or a Civil Engineer authorized to perform such work.

The Contractor shall provide the City a copy of the office calculations and documents submitted to the County for filing in connection with the aforementioned work.

The payment for surveying, related professional services, office calculation, and furnishing all labor, materials, equipment, tools and incidentals, and for doing work involved shall be considered as included in the various items of work, and no additional compensation will be allowed therefore.

Section 3-3.2.2 shall be changed as follows:

(a) Labor. The costs of labor will be the actual cost for wages of workers performing the extra work at the time the extra work is done, plus the employer payments of payroll taxes, health and welfare, pension, vacation, apprenticeship funds, and other direct costs, resulting from Federal, State, or local laws, as well as assessments or benefits required by collective bargaining agreements.

The following will revise Section 3-3.2.3 of the Greenbook:

(a) Work by Contractor. An allowance for overhead and profit shall be added to the Contractor's cost as determined under 3-3.2.2 and shall constitute the full and complete markup for all overhead and profit on extra work performed by the Contractor. The Contractor shall be compensated for the actual increase in the Contractor's bond premium caused by the extra work. For costs determined under each subsection in 3-3.2.2, the markup shall be:

a) Labor	20%
b) Materials	15%
c) Tools & Equipment Rental	15%
d) Other Items	15%

(b) Work by Subcontractor. When any of the extra work is performed by a Subcontractor, the markup established in 3-3.2.3(a) shall be applied to the Subcontractor's costs as determined under 3-3.2.2. An allowance for the Contractor's overhead and profit shall be added to the sum of the Subcontractor's costs and markup and shall constitute the full and complete markup for all overhead and profit for the Contractor on work by the Subcontractor. For Contractor markup of Subcontractor's costs, the allowance shall be 10% on the first \$2,000 or portion thereof, and 5% on costs in excess of \$2,000.

**GENERAL INSTRUCTIONS** - Bids must be submitted on the Proposal Form prepared for this project and shall be delivered at the office of the City Clerk within a sealed envelope supplied by the City and marked on the outside as follows: **"BID NO. 16-20: FY15-16 STREET AND ALLEY IMPROVEMENTS."**

**ENGINEER'S ESTIMATE** - The preliminary cost of construction of this Work has been prepared and the said estimate is **\$3,300,000**.

**LIQUIDATED DAMAGES** - There will be a Five Hundred Dollar (\$500.00) assessment for each calendar day that work remains incomplete beyond the time stated in the Proposal Form. Refer to the Proposal Form for specific details.

**CITY CONTACT** – Any questions or requests for information can be directed to the civil engineer, Tristan D. Malabanan, P.E., at tmalabanan@beverlyhills or by calling 310-285-2512.

**PUBLIC WORKS CONTRACTOR REGISTRATION NUMBER** – The Contractor is required to register with State of California Department of Industrial Relations and meet requirements to bid on public works contracts. A Public Works Contractor Registration No. shall be submitted with the bid.

**PREVAILING WAGES** - In accordance with the provisions of Section 1770 et seq, of the Labor Code, the Director of Industrial Relations of the State of California has determined the general prevailing rate of wages applicable to the work to be done.

The Contractor will be required to pay to all workers employed on the project sums not less than the sums set forth in the documents entitled "General Prevailing Wage Determination made by the Director of Industrial Relations pursuant to California Labor Code, Part 7, Chapter 1, Article 2, Sections 1770, 1773, 1773.I."

A copy of said documents is on file and may be inspected in the office of the City Engineer, located at 345 Foothill Road, Beverly Hills, California 90210.

Attention is directed to the provisions of Sections 1777.5 and 1777.6 of the Labor Code concerning the employment of apprentices by the Contractor or any subcontractor under him. The Contractor and any subcontractor under him shall comply with the requirements of said sections in the employment of apprentices.

Information relative to apprenticeship standards and administration of the apprenticeship program may be obtained from the Director of Industrial Relations, San Francisco, California, or from the Division of Apprenticeship Standards and its branch offices.

**PAYROLL RECORDS** - The Contractor's attention is directed to Section 1776 of the Labor Code, relating to accurate payroll records, which imposes responsibility upon the Contractor for the maintenance, certification, and availability for inspection of such records for all persons employed by the Contractor or by the Subcontractors in connection with the project. The Contractor shall agree through the Contract to comply with this section and the remaining provisions of the Labor Code.

**INSURANCE AND BOND REQUIREMENTS** - The Contractor shall provide insurance in accordance with Section 3-13 of the City of Beverly Hills, Public Works Department, Standard Contractual Requirements, included as part of these Specifications. All Subcontractors listed shall attach copies of the Certificate of Insurance naming the Contractor as the additional insured as part of their insurance policy coverage. In addition, the Contractor shall guarantee all work against defective workmanship and materials furnished by the Contractor for a period of one (1) year from the date the work was completed in accordance with Section 2-11 of the Standard Contractual Requirements. The Contractor's sureties for the "Performance Bond" shall be liable for any work that the Contractor fails to replace within a specified time.

**CONTRACTORS LICENSE** - At the time of the Bid Deadline and at all times during performance of the Work, including full completion of all corrective work during the Correction Period, the Contractor must possess a California contractor's license or licenses, current and active, of the classification required for the Work, in accordance with the provisions of Chapter 9, Division 3, Section 7000 et seq. of the Business and Professions Code.

In compliance with Public Contract Code Section 3300, the City has determined that the Bidder must possess the following license(s): **"A"**

The successful Bidder will not receive a Contract award if the successful Bidder is unlicensed, does not have all of the required licenses, or one or more of the licenses are not current and active. If the City discovers after the Contract's award that the Contractor is unlicensed, does not have all of the required licenses, or one or more of the licenses are not current and active, the City may cancel the award, reject the Bid, declare the Bid Bond as forfeited, keep the Bid Bond's proceeds, and exercise any one or more of the remedies in the Contract Documents.

**SUBCONTRACTORS' LICENSES AND LISTING** - At the time of the Bid Deadline and at all times during performance of the Work, each listed Subcontractor must possess a current and active California contractor's license appropriate for the portion of the Work listed for such Subcontractor and shall hold all specialty certifications required for such Work. When the Bidder submits its Bid to the City, the Bidder must list each Subcontractor whom the Bidder must disclose under Public Contract Code Section 4104 (Subcontractor Listing Law), and the Bidder must provide all of the Subcontractor information that Section 4104 requires (name, address, and portion of the Work). In addition, the City requires that the Bidder list each Subcontractor's license number and the dollar value of each Subcontractor's labor or services.

**SUBSTITUTION OF SECURITIES** - Pursuant to California Public Contract Code Section 22300, substitution of securities for withheld funds is permitted in accordance therewith.

**THE CITY RESERVES THE RIGHT TO REJECT ANY BID OR ALL THE BIDS AND TO WAIVE ANY INFORMALITY OR IRREGULARITY IN ANY BID, BUT IF THE BIDS ARE ACCEPTED, THE CONTRACT FOR THE IMPROVEMENT WILL BE LET TO THE LOWEST RESPONSIBLE BIDDER FOR THE PROJECT AS A WHOLE.**

**PROPOSAL FORM**  
for the  
**FY15-16 STREET AND ALLEY IMPROVEMENTS**  
within the City of  
**BEVERLY HILLS, CALIFORNIA**

ooooo

Beverly Hills, California

Date 7-14-2016

To the Honorable City Council  
Beverly Hills, California:

In compliance with the advertised notice inviting sealed proposals for the **FY15-16 STREET AND ALLEY IMPROVEMENTS** within the City of Beverly Hills, California, and after having carefully examined the locations of the project and studied the Plans and Specifications prepared for this work, the undersigned hereby agrees to enter into a contract to furnish all labor, materials, equipment, parts, implements, supplies and permits needed to perform the contract work to the satisfaction and under the direction of the City Engineer of the City of Beverly Hills, said contract to be drawn in accordance with the provisions of the Plans, Specifications, Notice to Bidders, and all the applicable clauses of the "Standard Contractual Requirements for Public Improvements in the City of Beverly Hills, California", as adopted by the Department of Public Works on November 1, 1976.

If awarded the contract, the undersigned agrees to furnish the necessary bonds and insurance, as set forth in the above-mentioned Standard Contractual Requirements, **within ten (10) days** after the award of the contract.

Attached hereto is cash, or cashier's check, or a certified check in favor of the City of Beverly Hills, in an amount equal to **at least ten percent (10%)** of the total bid, or a bid bond for said amount on a form furnished by the City, with the understanding that said security shall be held by the City Clerk until the contract for doing the work has been entered into, and that said security shall be forfeited to the City as liquidated damages should the undersigned fail to enter into a contract and furnish the above-mentioned bonds and insurance **within the ten (10) days** specified, if awarded the contract, as the undersigned agrees that in the event of such failure, the actual amount of the damage to the City would be impractical and extremely difficult to determine.

In the event cash, or cashier's check, or a certified check is furnished for the bid bond, then a letter is required from a bonding company stating that said company will furnish the necessary bonds, as specified in *Paragraph 2-11* of the Standard Contractual Requirements, if the undersigned is awarded the contract. The undersigned is aware of the fact that such a letter must be from a bonding company acceptable to the City of Beverly Hills, and that all bids accompanied by cash, or cashier's check, or a certified check in lieu of the bid bond must be accompanied by such a letter in order to be considered.

The undersigned certifies to have a minimum of three consecutive years of current experience in the type of work related to this project and that this experience is in actual operation of a firm with permanent employees performing a part of the work as distinct from a firm operating entirely by subcontracting all phases of the work.

The undersigned also certifies to be properly licensed by the State of California as a contractor to perform work of this specialty and further certifies to have been so licensed for the three years immediately preceding the date of receipt of bids. The undersigned agrees to furnish the City satisfactory proof of ability to perform the work, as well as records of performance of similar jobs completed recently, if and when requested to do so by the City Engineer.

The undersigned agrees that the insurance and bonding requirements set forth in *Sections 3-13 and 2-11*, respectively, of the City of Beverly Hills, Public Works Department, Standard Contractual Requirements can and will be fulfilled.

The undersigned hereby agrees to perform the work as described in Beverly Hills Standards, and in the Specifications prepared for this project, at the following prices, to wit:

<u>ITEM NO.</u>	<u>ESTIMATED QUANTITY AND UNIT</u>	<u>DESCRIPTION PRICE WRITTEN IN WORDS</u>	<u>UNIT PRICE IN FIGURES</u>	<u>TOTAL IN FIGURES</u>
1	1 LS	Mobilization, Traffic Control, & Demobilization (\$100K max.)	\$ _____	\$ _____
		_____ DOLLARS		
		and _____ CENTS		
		per <b>Lump Sum</b>		

**STREET IMPROVEMENTS**

2	13,000 SY	Micro-mill AC 5/8" to 1"	\$ _____	\$ _____
		_____ DOLLARS		
		and _____ CENTS		
		per <b>Square Yard</b>		

<u>ITEM NO.</u>	<u>ESTIMATED QUANTITY AND UNIT</u>	<u>DESCRIPTION PRICE WRITTEN IN WORDS</u>	<u>UNIT PRICE IN FIGURES</u>	<u>TOTAL IN FIGURES</u>
3	700 Tons	1" overlay PG 64-16 ARHM	\$ _____	\$ _____
		_____ DOLLARS		
		and _____ CENTS		
		per <b>Ton</b>		
4	800 Tons	2" overlay PG 64-16 ARHM (Saturday work)	\$ _____	\$ _____
		_____ DOLLARS		
		and _____ CENTS		
		per <b>Ton</b>		
5	38,000 SY	Grind AC 2" to 2.5" average	\$ _____	\$ _____
		_____ DOLLARS		
		and _____ CENTS		
		per <b>Square Yard</b>		
6	16,000 SY	Grind AC 2.5" to 3" average	\$ _____	\$ _____
		_____ DOLLARS		
		and _____ CENTS		
		per <b>Square Yard</b>		

<u>ITEM NO.</u>	<u>ESTIMATED QUANTITY AND UNIT</u>	<u>DESCRIPTION PRICE WRITTEN IN WORDS</u>	<u>UNIT PRICE IN FIGURES</u>	<u>TOTAL IN FIGURES</u>
7	900 SY	Grind concrete 2" average  _____ DOLLARS and _____ CENTS  per <b>Square Yard</b>	\$ _____	\$ _____
8	1 LS	Crack Seal (all streets after micro-mill/grinding)  _____ DOLLARS and _____ CENTS  per <b>Lump Sum</b>	\$ _____	\$ _____
9	30,000 SY	Install pavement interlayer (GlasPave 50 or equivalent)  _____ DOLLARS and _____ CENTS  per <b>SY</b>	\$ _____	\$ _____
10	3,700 Tons	2" overlay PG 64-10 (3/8") HMA  _____ DOLLARS and _____ CENTS  per <b>Ton</b>	\$ _____	\$ _____
11	2,100 Tons	3" overlay PG 64-10 (3/8") HMA  _____ DOLLARS and _____ CENTS  per <b>Ton</b>	\$ _____	\$ _____

<u>ITEM NO.</u>	<u>ESTIMATED QUANTITY AND UNIT</u>	<u>DESCRIPTION PRICE WRITTEN IN WORDS</u>	<u>UNIT PRICE IN FIGURES</u>	<u>TOTAL IN FIGURES</u>
12	11,500 SY	Microsurfacing emulsion (MSE) Type III  _____ DOLLARS and _____ CENTS per <b>Square Yard</b>	\$ _____	\$ _____
13	13,500 SY	eFlex MSE or equivalent  _____ DOLLARS and _____ CENTS per <b>Square Yard</b>	\$ _____	\$ _____
14	600 LF	Remove and replace residential curb and gutter  _____ DOLLARS and _____ CENTS per <b>LF</b>	\$ _____	\$ _____
15	5,000 SF	Pothole or section repair 8" PG 64-10 HMA over 6" CMB  _____ DOLLARS and _____ CENTS per <b>Square Foot</b>	\$ _____	\$ _____
16	205 LF	Furnish & install Qwick Kurb  _____ DOLLARS and _____ CENTS per <b>Lineal Foot</b>	\$ _____	\$ _____

ITEM NO.	ESTIMATED QUANTITY AND UNIT	DESCRIPTION PRICE WRITTEN IN WORDS	UNIT PRICE IN FIGURES	TOTAL IN FIGURES
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**COLDWATER CANON DRIVE REPAIRS**

17	400 LF	Remove and replace non-residential curb & gutter (including dowels)	\$_____	\$_____
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\_\_\_\_\_ DOLLARS

and \_\_\_\_\_ CENTS

per **Lineal Foot**

18	1,200 SF	Remove and replace 10" concrete pavement over 6" CMB (including dowels)	\$_____	\$_____
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\_\_\_\_\_ DOLLARS

and \_\_\_\_\_ CENTS

per **Square Foot**

19	1 LS	Message boards/traffic control	\$_____	\$_____
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\_\_\_\_\_ DOLLARS

and \_\_\_\_\_ CENTS

per **Lump Sum**

**ALLEY IMPROVEMENTS**

20	1,600 SF	Remove and replace alley gutter	\$_____	\$_____
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\_\_\_\_\_ DOLLARS

and \_\_\_\_\_ CENTS

per Square Foot

<u>ITEM NO.</u>	<u>ESTIMATED QUANTITY AND UNIT</u>	<u>DESCRIPTION PRICE WRITTEN IN WORDS</u>	<u>UNIT PRICE IN FIGURES</u>	<u>TOTAL IN FIGURES</u>
21	2,000 SF	Remove and replace alley approach  _____ DOLLARS and _____ CENTS  per <b>Square Foot</b>	\$ _____	\$ _____
22	135,000 SY	Grind AC 2" to 2.5" average  _____ DOLLARS and _____ CENTS  per <b>Square Yard</b>		
23	1 LS	Crack seal (all alleys after grinding)  _____ DOLLARS and _____ CENTS  per <b>Lump Sum</b>	\$ _____	\$ _____
24	5,000 SF	Pothole or section repair 6" PG 64-10 HMA over 6" CMB  _____ DOLLARS and _____ CENTS  per <b>Square Foot</b>	\$ _____	\$ _____
25	5,000 Tons	2" overlay PG 64-10 (3/8") HMA  _____ DOLLARS and _____ CENTS  per <b>Ton</b>	\$ _____	\$ _____

<u>ITEM NO.</u>	<u>ESTIMATED QUANTITY AND UNIT</u>	<u>DESCRIPTION PRICE WRITTEN IN WORDS</u>	<u>UNIT PRICE IN FIGURES</u>	<u>TOTAL IN FIGURES</u>
26	1,000 Tons	Remove and replace 6" PG 64-10 (alley reconstruction, if necessary)	\$ _____	\$ _____
		_____ DOLLARS		
		and _____ CENTS		
		per <b>Ton</b>		

**MISCELLANEOUS**

27	1 LS	Survey: tie out & reinstall marks (all locations)	\$ _____	\$ _____
		_____ DOLLARS		
		and _____ CENTS		
		per <b>Lump Sum</b>		

28	300 Tons	Install CMB or CAB (if necessary)	\$ _____	\$ _____
		_____ DOLLARS		
		and _____ CENTS		
		per <b>Ton</b>		

29	1,000 SF	Remove and replace sidewalk (as needed)	\$ _____	\$ _____
		_____ DOLLARS		
		and _____ CENTS		
		per <b>Square Foot</b>		

<u>ITEM NO.</u>	<u>ESTIMATED QUANTITY AND UNIT</u>	<u>DESCRIPTION PRICE WRITTEN IN WORDS</u>	<u>UNIT PRICE IN FIGURES</u>	<u>TOTAL IN FIGURES</u>
30	7,200 SF	Remove and replace access ramp  _____ DOLLARS and _____ CENTS per <b>Square Foot</b>	\$ _____	\$ _____
31	2,000 SF	Install truncated domes  _____ DOLLARS and _____ CENTS per <b>Lump Sum</b>	\$ _____	\$ _____
32	1 LS	Striping and markings  _____ DOLLARS and _____ CENTS per <b>Lump Sum</b>	\$ _____	\$ _____
33	20 EA	Adjust to grade manholes (if necessary)  _____ DOLLARS and _____ CENTS per <b>Each</b>	\$ _____	\$ _____
34	200 EA	Adjust to grade water meter box (if necessary)  _____ DOLLARS and _____ CENTS per <b>Each</b>	\$ _____	\$ _____



**LIST OF SUBCONTRACTORS** - The undersigned is required to fill in the following blanks in accordance with the provisions of Section 4104 of the Public Contract Code of the State of California and Section 2-3 of the Standard Specifications.

<u>Name Under Which Subcontractor is Licensed</u>	<u>License Number</u>	<u>Location of the Place of Business</u>	<u>Specific Description of Subcontract</u>	<u>Value (\$) of Subcontract</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Subcontractors listed in accordance with the provision of Section 2-3 of the Standard Specifications for Public Works Construction, must be properly licensed under the laws of the State of California for the type of work, which they are to perform. Do not list alternate subcontractors for the same work.

The undersigned agrees to furnish proof that all contractors and subcontractors performing any work related to this improvement are complying with all the requirements of Social Security Legislation, both State and Federal, and also agrees to conform with the provisions of Sections 4100 to 4113, inclusive, of the Public Contract Code, as amended, concerning subcontractors and subcontracts.

TE750015

**NONCOLLUSION AFFIDAVIT TO BE EXECUTED BY  
BIDDER AND SUBMITTED WITH BID**

State of California  
County of \_\_\_\_\_

\_\_\_\_\_, being first duly sworn, deposes and says that he or  
she is \_\_\_\_\_ of

\_\_\_\_\_ the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, **or** corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true, and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

\_\_\_\_\_  
Contractor  
  
\_\_\_\_\_  
  
\_\_\_\_\_

**(Attach appropriate notary acknowledgments)**

TE750013  
12-12-89

Respectfully submitted:

Dated \_\_\_\_\_

FIRM NAME \_\_\_\_\_

SIGNATURE \_\_\_\_\_

Bidder

ADDRESS \_\_\_\_\_

\_\_\_\_\_

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

RESIDENCE \_\_\_\_\_

CONTRACTOR'S LICENSE NO. \_\_\_\_\_ CLASS \_\_\_\_\_ EXPIRATION DATE \_\_\_\_\_

STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS PUBLIC WORKS  
CONTRACTOR REGISTRATION NUMBER \_\_\_\_\_

Bidder is \* \_\_\_\_\_

If a partnership, names of partners  
If a corporation, names of President **or**  
Vice President, **and** the Secretary **or**  
Assistant Secretary

NAME

ADDRESS

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

I (we) hereby state and declare under the penalty of perjury under the laws of California, that the representations made herein are true and correct.

Executed on \_\_\_\_\_ 20\_\_ at \_\_\_\_\_ California

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

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

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

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

\* Please state whether the bidder is an individual, a partnership, a corporation, **or** an individual doing business under a fictitious name. If the bidder is a corporation, the following is required: 1) signatures of two corporate officers; **or** 2) a certified copy of the corporation bylaws, and a resolution of the Board of Directors which gives authority to the officers signing this agreement to execute contracts on behalf of the corporation. Also, refer to Paragraph 2-01 of the Standard Contractual Requirements.

# **SPECIFICATIONS**

**for the**

## **FY15-16 STREET AND ALLEY IMPROVEMENTS**

**within the City of  
BEVERLY HILLS, CALIFORNIA**

**00000**

### **SECTION 1**

#### **GENERAL PROVISIONS**

**1-01 WORK TO BE DONE** – The contract work to be done under these specifications shall consist of furnishing all the required labor, materials, equipment, parts, implements and supplies necessary for, or appurtenant to, **FY15-16 STREET AND ALLEY IMPROVEMENTS** within the City of Beverly Hills, California, in accordance with Standard Drawings and the Specifications prepared for this project.

**1-02 STANDARD CONTRACTUAL REQUIREMENTS** - The provisions of the "Standard Contractual Requirements for Public Improvements in the City of Beverly Hills", a copy of which is attached hereto and incorporated herein by reference, shall be applicable to the work covered by these specifications.

#### **1-03 REFERENCE SPECIFICATIONS**

**1-03.1 STANDARD SPECIFICATIONS** - The words "Standard Specifications" when used in these specifications or in the contract, refer to the "Standard Specifications for Public Works Construction", 2015 Edition, written by a Joint Cooperative Committee of the Southern California Chapter of the American Public Works Association and Southern California District of the Associated General Contractors of California.

The Standard Specifications for Public Works Construction, 2015 Edition, including all amendments thereto issued prior to date of the bid opening, shall be a part of these specifications, the same as though contained fully herein.

**1-03.2 AMENDMENTS** - The "Standard Specifications for Public Works Construction", 2015 Edition is amended as follow:

1) The following is in addition to the provisions of *Section 2-9.1* of the Greenbook:

The Contractor is required to locate and tie out survey monuments in the project area prior to construction involving street and highways, and to file with the County Surveyor a Corner

Record of any such work. Prior to the issuance of a completion certificate, the Contractor is required to file a Corner Record for survey monumentation that is replaced. All such survey work shall be performed under the supervision of a California licensed Land Surveyor or a Civil Engineer authorized to perform such work.

The Contractor shall provide the City a copy of the office calculations and documents submitted to the County for filing in connection with the aforementioned work.

The payment for surveying, related professional services, permit processing, office calculations, and furnishing all labor, materials, equipment, tools and incidentals, and for doing work involved shall be considered as included in the various items of work, and no additional compensation will be allowed therefore.

- 2) The second paragraph of *Section 3-2.2.1 "Contract Unit Prices"*, of the Standard Specifications for Public Works Construction is deleted.
- 3) The third paragraph of *Section 3-2.2.1 "Contract Unit Prices"*, of the Standard Specifications for Public Works Construction should be followed by: "Should any Contract item be deleted in its entirety, no payment will be made to Contractor for that Bid Item."
- 4) *Section 3-3.2.3 Markup* shall be replaced by the following:

*3-3.2.3.1 Work by Contractor.* An allowance for overhead and profit shall be added to the Contractor's cost as determined under 3-3.2.2 and shall constitute the full and complete markup for all overhead and profit on extra work performed by the Contractor. The Contractor shall be compensated for the actual increase in the Contractor's bond premium caused by the extra work. For costs determined under each subsection in 3-3.2.2, the markup shall be:

- |                             |     |
|-----------------------------|-----|
| a) Labor                    | 20% |
| b) Materials                | 15% |
| c) Tools & Equipment Rental | 15% |
| d) Other Items              | 15% |

*3-3.2.3.2 Work by Subcontractor.* When any of the extra work is performed by a Subcontractor, the markup established in 3-3.2.3.1 shall be applied to the Subcontractor's costs as determined under 3-3.2.2. An allowance for the Contractor's overhead and profit shall be added to the sum of the Subcontractor's costs and markup and shall constitute the full and complete markup for all overhead and profit for the Contractor on work by the Subcontractor. For Contractor markup of Subcontractor's costs, the allowance shall be **10% on the first \$2,000 or portion thereof, and 5% on costs in excess of \$2,000.**

- 5) The first paragraph of *Section 6-9 LIQUIDATED DAMAGES* shall be replaced by the following:

Failure of the Contractor to complete the Work within the time allowed will result in damages being sustained by the Agency. Such damages are, and will continue to be, impracticable and extremely difficult to determine. For each consecutive calendar day in excess of the

time specified for completion of the Work, as adjusted in accordance with 6-6, the Contractor shall pay to the Agency, or have withheld from monies due it, the sum of **Five Hundred Dollars (\$500.00)**.

## SECTION 2

### SPECIAL PROVISIONS

#### 2-01 TIME OF COMPLETION AND LIQUIDATED DAMAGES

**2-01.1 TIME FOR COMPLETION** - The work on this project shall start **within 7 calendar days** from the date of receipt of written notice to proceed from the City Engineer and the Contractor agrees to complete the entire work within **200 working days** from the Notice to Proceed date.

In case all the work called for is not completed in all parts and requirements within the time specified, the City shall have the right to grant or deny an extension of time for completion, as may best serve the interest of the City. The Contractor shall not be assessed with penalties during the delay in the completion of the work caused by acts of God or of the Public Enemy, acts of the State, fire not due to acts of contractors or subcontractors, floods, epidemics, quarantine, restrictions, strikes, freight embargo or unusually severe weather, or delays of subcontractors due to such causes provided that the Contractor shall, **within ten (10) calendar days** from the beginning of such delay, notify the City, in writing of the cause of the delay. The City will ascertain the facts and the extent of the delay, and the findings thereon shall be final and conclusive.

**2-01.2 LIQUIDATED DAMAGES** - Time is of the essence on this contract, and should the Contractor fail to finish the work on or before the time stated above, the Contractor shall be charged by the City, as liquidated and ascertained damages, the sum of **Five Hundred Dollars (\$500.00) for each calendar day** that the work remains incomplete beyond the dates specified (subject, however, to extensions of time duly granted in the manner and for the causes specified below), it being impracticable and extremely difficult to fix the actual damage which would or will be suffered in the event that the Contractor should fail fully to complete the work within the time specified, and it would be further agreed that the charges per day as aforementioned are reasonable and proper. The amount so charged shall be deducted by the City from any monies which otherwise be or become payable to the Contractor.

**2-02 SPECIFICATIONS** - The specifications showing character of the work and details of construction are on file at the office of the **City Engineer, located in 345 Foothill Road, Beverly Hills, California.**

Estimates of quantities appearing in these specifications, Notice to Bidders, and Proposal Form are merely entered for the convenience of the contractors bidding on this project. An independent check of the estimate in the field is required by the contractor **prior to** submitting its bid. It must be understood that payment to the successful contractor will be made on the basis of the unit prices bid for the various items of work and on the actual quantities of work done as measured in the field by the City Engineer.

Copies of the Specifications and Proposal Form may be inspected and obtained at the office of the City Engineer.

**2-03 SPECIAL WORK REQUIREMENTS AND WORK SCHEDULE**

**2-03.1 SPECIAL WORK REQUIREMENTS** - All work shall be undertaken in conformance with the following special work requirements. Full compensation for conforming to all of the special work requirements shall be included in the bid prices for this contract, and no additional compensation will be made therefore:

a) The Contractor is **prohibited** from working on the following days in City of Beverly Hills:

HOLIDAY	2016	2017
New Year's Day	Jan 1 (Mon)	Jan 1-2 (Sun & Mon)
Martin Luther King Day	Jan 18 (Mon)	Jan 16 (Mon)
President's Day	Feb 15 (Mon)	Feb 20 (Mon)
Passover	April 22 (Fri), April 23 (Sat)	April 10-11 (Mon & Tues)
Good Friday	Mar 25 (Fri)	April 14 (Fri)
Memorial Day	May 30 (Mon)	May 29 (Mon)
Independence Day	July 4 (Mon)	July 4 (Tues)
Labor Day	Sept 5 (Mon)	Sept 4 (Mon)
Rosh Hashanah	Oct 2 (Sun), Oct 3 (Mon)	Sep 20-21 (Wed & Thurs)
Yom Kippur	Oct 11 (Tues)	Sept 29 (Fri)
Veteran's Day	Nov 11 (Fri)	Nov 10-11 (Fri & Sat)
Thanksgiving Day	Nov 24 (Thurs), Nov 25 (Fri)	Nov 23-24 (Thurs & Fri)
Christmas Day	Dec 25 (Sun), Dec 26 (Mon)	Dec 25 (Mon)

- b) The Contractor shall secure, protect and maintain the construction area on all of the dates referenced above.
- c) All work must be coordinated with the Civil Engineering and Water Division staff and comply with this specification and all referenced specifications or standards.
- d) The Contractor shall maintain the construction site during non-working hours in a clean and safe condition. The Contractor will replace any newly laid concrete that is damaged or scarred. The Contractor shall be available for immediate mitigation measures should the City Engineer decide that appropriate action is necessary during non-working hours.
- e) All excavated material shall be loaded into hauling vehicles as the material is excavated. See appendix for "COBH Approved Heavy Haul Truck Route Map". Stockpiling of excavated material in the public right of way is not allowed.
- f) All Underground Service Alert (USA) markings have to be removed by the Contractor at the end of the construction project.

- g) Dirt and/or debris not removed by conventional sweeping will require wash down at the direction of the City Engineer. All runoff from wash down shall be vacuumed using a wet/dry vacuum truck. No runoff from wash down will be allowed to drain into the storm drain system.
- h) All dirt on construction vehicle tires shall be removed prior to leaving the construction area.
- i) At the Pre-Construction meeting; the City will require the Contractor to furnish a cellular phone number that will be furnished to residents with questions or complaints regarding the Contractor's work. The Contractor should designate a public liaison person to handle all resident inquiries. The Contractor shall respond to residents' inquiries within one hour of the call during normal working hours (8am to 6pm). When dealing with residents, common courtesy is required.
- j) The Contractor will be responsible for delivering City prepared construction notification letters to all residents or business owners affected by any of the contract work. The expected time between the delivery of the notification and the start of work is **seven to ten calendar days**. Special consideration should be paid to residents or business owners whose access will be affected by the work such that these people know exactly which day operations will start and end. It is imperative that the Contractor follow through on construction schedules that have been shared with city staff, residents and business owners. Changes to previously published information will necessitate the distribution of additional notices and could result in a delay in the work at no cost to the City.
- k) The Contractor shall be prepared to modify haul routes and staging areas to respond to changing conditions as directed by the City Engineer. The Contractor shall ensure that all hauling vehicles be radio dispatched to facilitate changes in the hauling cycle. See COBH-approved heavy haul truck route map in appendix.
- l) All vehicles used for construction work shall have a company emblem on the door.

**2-03.2 WORK SCHEDULE -**

- a. **Normal Work Schedule** - The Normal Work Schedule for all contract work shall be between the hours of 8:00 a.m. and 6:00 p.m., Monday through Friday.
- b. **After Hours** – After Hours shall be defined as any hours outside of the Normal Work Schedule. Work may be allowed outside the normal work schedule on a case by case basis as authorized by the Traffic Engineer and/or Project Manager. No additional compensation will be given.

**2-04 TRAFFIC CONTROL**

**2-04.1 NOTIFICATION** - The Contractor shall notify the following City Departments **24 hours prior** to the start of work at any location, and **24 hours prior** to the partial closing of a street or alley within the City of Beverly Hills or West Hollywood.

**BEVERLY HILLS PUBLIC WORKS DEPARTMENT**

Notify Jeff Bartizal, Supervising Public Works Inspector (310.285.2518)

**BEVERLY HILLS POLICE DEPARTMENT**

Notify Traffic Division (310.285.2196)

**BEVERLY HILLS FIRE DEPARTMENT**

Notify Dispatcher's Office (310.550.4951)

**BEVERLY HILLS SANITATION DEPARTMENT**

Notify Arthur Saenz, Operations Supervisor (310.285.2465)

The City will furnish to the Contractor "TOW AWAY NO STOPPING" signs. The Contractor will be responsible for posting signs **72-hours** in advance of the work and removing these signs as required for this project. Signs must have exact work days and hours indicated on them for each location and cannot be general. Signs also need to indicate the Project's Permit Number.

**2-04.2 PARKING AND ACCESS TO RESIDENTS' DRIVEWAYS** - The Contractor shall comply with the requirements of *Paragraph 5-07* of the Standard Contractual Requirements with reference to the need of minimizing the inconvenience caused to residents.

**2-04.3 CONSTRUCTION SIGNS** - All signs used by the Contractor shall conform to the standards of the "Manual of Traffic Controls", issued by the Department of Transportation, State of California, current edition. All warning, regulatory and construction signs shall be fully reflectorized. The traffic cones to be used shall be 18 inches in height, rubber, or plastic and be reflectorized.

**2-04.4 CONTRACTOR'S RESPONSIBILITY** - The Contractor shall take all necessary measures to obtain a normal flow of traffic to prevent accidents and to protect the work throughout the construction stages until completion of the work. The Contractor shall make the necessary arrangements to provide and maintain barriers, cones, guards, barricades, and construction warnings and regulatory signs. The Contractor shall take measures necessary to protect all other portions of the work during construction and until completion, providing and maintaining all necessary barriers, barricade lights, guards, temporary crossovers and watchmen.

In addition to the foregoing traffic control and safety measures, the Contractor shall undertake immediately to implement any measures requested by the City Engineer, as deemed necessary to ensure the proper flow of traffic and the protection of the public and the safety of the workers. The Contractor shall maintain at all times the ability to respond to calls from the Beverly Hills Police Department during non-working hours to replace or provide additional traffic control or safety devices as shall be required by the Police Department.

**2-04.5 FLASHING ARROW SIGNS** - The Contractor shall furnish and maintain solar-powered flashing arrow signs (FAS) during lane closures on arterial streets. The City Engineer shall determine when FAS is required at any location. The cost of these signs shall be included in the unit prices bid for the particular items of work where such signs may be required.

**2-04.6 PAYMENT** - The entire cost for traffic control as detailed in this section and as required for this construction shall be included in all applicable bid items.

## **2-05 UTILITIES**

**2-05.1 CONTRACTOR'S RESPONSIBILITY** - The Contractor shall verify the location of all underground utilities and services before proceeding with excavation work, requesting in advance the services of inspectors from the utility companies in order to ascertain said locations. Damage to underground utilities resulting from neglect on the part of the Contractor shall be corrected and paid for by the Contractor.

**2-05.2 NOTIFICATION** - The Contractor shall notify all owners of public utilities 48 hours in advance of excavating around any of their substructures, and shall also provide the same notice to Underground Service Alert of Southern California, **Tel. No. 1-800-227-2600**.

**2-05.3 INTERFERENCE (UTILITIES IN USE)** - Utilities which are found, by exploratory location or by excavation, to interfere with the construction of this project will be relocated, altered, or reconstructed by others, or the City Engineer may order changes in location, line or grade of the project structure, to be built or being built in order to avoid said utility. The cost of such changes will be paid for as described in *Section 2-08* of these Specifications.

**2-05.4 INTERFERENCE (ABANDONED UTILITIES)** - Abandoned utilities which interfere with the construction of any portion of this project may be cut by the Contractor, the interfering portion of the utility removed and open ends of the pipe sealed with a suitable plug or cap. The cost of this work shall be included in the unit prices bid for the particular items of work where such interference occurs unless otherwise specified.

**2-06 BUSINESS LICENSE** - The contractor is required to have a current City of Beverly Hills business license issued through the City of Beverly Hills Building & Safety and/or Finance Administration Departments. To obtain a business tax registration form, please call (310) 285-2424, or visit the one-stop permit center on the first floor of Beverly Hills City Hall located at 455 North Rexford Drive, Beverly Hills, 90210.

**2-07 PERMITS** – Prior to the commencement of work, the Contractor shall obtain a construction and after-hours permit at no cost from the City of Beverly Hills Permit Center, located on the 1<sup>st</sup> floor of City Hall at 455 North Rexford Drive. The permit shall be kept in a readily available place on the job site at all times during construction. While no fee will be charged for the permit, no permit will be issued unless the Contractor provides a code reference number from U.S.A. confirming they have received appropriate advance notification as required in Section 2-05.2 above and provides evidence of a current copy of Beverly Hills business license.

**2-08 ADDITIONAL WORK AND EXTRA WORK** - The City reserves the right to order additional work over and above the quantities listed in the Proposal Form. In the event that additional work is required and is so ordered by the City Engineer, payment to the Contractor will be based on the actual quantity of additional work ordered and measured in the field by the City Engineer and will be paid for at the unit price bid by the Contractor. Likewise, the City reserves the right to order extra work not shown on the plans and not listed in the Proposal Form. Whenever extra work is

found to be necessary, the procedure described in *Paragraph 5-11* of the Standard Contractual Requirements shall be followed.

**2-09 PAYMENT** - Contractor shall be paid for work in accordance with the unit prices shown on the schedule of unit prices in the proposal form.

Upon completion of the assigned work by Contractor and acceptance of the work by the City Engineer, the Contractor shall submit an invoice for said work based on mutually agreed quantities. Invoices are processed by the city every **Tuesday**.

The payment will be made on the basis of the amount of mutually agreed work completed less **five (5) percent retention**.

The final payment will be made at least **thirty-five (35) days** after acceptance of the work by the City Council.

The Contractor's invoice format shall be subject to approval by the City Engineer. Each request for payment must show the work, by Bid Item, completed at each location. The invoice shall contain separate subtotals of cost by location and by Bid Item.

**2-10 SAFETY REGULATIONS** - The Contractor shall comply with the requirements set forth in *Section 7-10.4* of the Standard Specifications.

## **2-11 RECYCLING OF MATERIALS AND NON-STORMWATER DISCHARGES**

**2-11.1 RECYCLING OF MATERIALS** - The Contractor is expected to recycle all materials removed from the job site. See *Section 3-01*.

**2-11.2 DISCHARGES INTO STORM DRAIN SYSTEM** - Storm water/urban runoff discharges to the public storm drainage system shall be prohibited for all discharges not wholly comprised of storm water, or permitted by a valid National Pollution Discharge Elimination System (NPDES) permit issued by the California Regional Water Quality Control Board. "Storm drain system" includes all roads with drainage systems, municipal streets, catch basins, curbs, gutter, ditches, man-made channels, or storm drains. The Contractor shall prevent all non-storm water discharges from the construction site (i.e. mixing and cleaning of construction materials, concrete washout, disposal of paints, adhesives, solvents, and landscape products).

**2-12 ITEMS OF WORK** – The work associated with and included in the price for each Bid Item is specifically described in this section. Refer to Section 3 and the appendices for additional requirements.

Due to the critical nature of weekend work, additional equipment is required to be onsite on standby in case the other equipment fails. This includes, but is not limited to the grinder, roller, backhoe, compaction equipment, tack machine, and paver.

Many types of work will require cleanup and repair of adjacent property/improvements after the work is completed, including related tasks such as slot paving, lawn re-sodding or reseeding,

painting, etc. All costs for these related tasks shall be included in the bid prices for the associated work, and no extra payment for these related tasks will be allowed. Further, the associated work will not be considered complete until the related tasks are completed, and no payment will be made for the associated work until the related tasks have been completed.

**2-12.1 ITEM 1. MOBILIZATION, TRAFFIC CONTROL & DEMOBILIZATION** – The unit price bid per lump sum shall include all the work involved:

- a. Mobilization
- b. Traffic control including all signage, delineators, arrow boards, message boards, flaggers, etc. as needed.
- c. Proper removal and disposal of all materials. Tracking records shall be submitted at the end of the project.
- d. Demobilization

Billing to this bid item shall match the same average percentage work complete as in other bid items.

**2-12.2 ITEM 2. MICRO-MILL ASPHALT CONCRETE (AC) PAVEMENT 5/8" TO 1"** – The unit price bid per square yard shall include all the work involved in the following:

- a. In addition to the Greenbook, milling AC pavement per the micro-milling specifications in the appendix.
- b. Removing, hauling away and disposing of grindings.
- c. Utilize a wet sweeper with vacuum to clean the entire street width.
- d. Clean all areas including gutters, sidewalk, etc.
- e. Dust control, storm drain BMP's, etc.
- f. Protection of adjacent concrete surfaces, manholes, and valves.

**2-12.3 ITEM 3. 1" THIN OVERLAY PG 64-16 ARHM** – The unit price bid per ton shall include all the work involved in the following:

- a. In addition to the Greenbook, refer to the Caltrans specifications for thin maintenance overlays in the appendix.
- b. Clean and protect all manhole covers, valve covers, etc.
- c. Raising and/or adjusting to new grade, all water valve covers and gas valve covers within the limits of the paving operations. All water valve caps shall be loosened and painted to

match the existing paint color. The contractor shall supply all water valve sleeves if they are required for water valve cover adjustment.

- d. Sweeping by mechanical wet sweeper will be required at least twice: 1) the day after AC paving is placed and 2) one week after the AC paving is placed.

**2-12.4 ITEM 4. 2" OVERLAY PG 64-16 ARHM (SATURDAY WORK)** – The unit price bid per lump sum shall include all the work involved in the following:

- a. This items applies to Civic Center Dr. between Civic Center Dr. and Beverly Blvd. for Saturday work.
- b. Coordinate entire scope with inspection staff to minimize impacts to surrounding business.
- c. Clean and protect all manhole covers, valve covers, etc.
- d. Sweeping by mechanical wet sweeper will be required at least twice: 1) the day after AC paving is placed and 2) one week after the AC paving is placed.
- e. The Contractor shall notify all other impacted utilities at least 48 hours prior to the paving work. The Contractor is responsible for scheduling with all of the appropriate utility owners to raise their manhole and vault covers to grade. These adjustments shall be made prior to the work being accepted by the City Engineer.
- f. Raising and/or adjusting to new grade, all water valve covers and gas valve covers within the limits of the paving operations. All water valve caps shall be loosened and painted to match the existing paint color. The contractor shall supply all water valve sleeves if they are required for water valve cover adjustment.

**2-12.5 ITEMS 5, 6 & 22. GRIND ASPHALT CONCRETE (AC)** – The unit price bid per square yard shall include the cost of all the work involved in the following:

- a. The averaged depth of milling for bid items 5 & 22 is 2" to 2.5" with a range from 1" to 3". The average depth of milling for bid item 6 is 2.5" to 3" with a range from 2" to 4".
- b. Removing, hauling away and disposing of grindings.
- c. For weekday work, streets and alleys must be repaved within 7 calendar days of being milled.
- d. For Civic Center Drive between Civic Center Dr. and Beverly Blvd., milling will have to occur "after hours" to minimize the inconvenience to adjacent businesses.
- e. After milling, in the case that the subgrade is bad, additional removals and installation of CMB may be required. In this case, the pavement section shall be replaced and paid under Bid Items 15 or 24. This repair must occur immediately in order to open the lane to traffic at

the end of the day. Inform the public works inspector immediately of the poor soil conditions.

**2-12.6 ITEM 7. GRIND CONCRETE PAVEMENT 2"** – The unit price bid per lump sum shall include the cost of all the work involved in the following:

- a. Grind concrete 1" to 3" with an average depth of 2".
- b. In addition to the Greenbook, refer to the appendix for technical specs for concrete grinding.
- c. Removing, hauling away and disposing of grindings.
- d. For weekday work, streets and alleys must be repaved within 7 calendar days of being milled.
- e. After milling, in the case that the subgrade is bad, additional removals and installation of CMB may be required. In this case, the pavement section shall be replaced and paid under Bid Items 15 or 24. This repair must occur immediately in order to open the lane to traffic at the end of the day. Inform the public works inspector immediately of the poor soil conditions.

**2-12.7 ITEMS 8 & 23. CRACK SEAL (ALL STREETS AND ALLEYS)** – The unit price bid per lump sum shall include all the work involved in the following :

- a. After any grinding or micro-milling of any street or alley, cracks must be cleaned and sealed.
- b. The work shall include pavement crack and joint cleaning, preparation, installation of crack sealing material, curing, protection, testing, traffic control and all other work necessary to seal pavement cracks in place.
- c. For Civic Center Drive between Civic Center Dr. and Beverly Blvd., milling will have to occur "after hours" to minimize the inconvenience to adjacent businesses.
- d. Crack sealant shall be Crafcro Polyflex Sealant, Type 2 or 3, or approved equal, applied per manufacturer's instructions. Cracks less than ½" wide shall be cleaned by routing and blowing prior to applying the sealant. Cracks over ½" wide shall be cleaned by blowing operations prior to applying the sealant.
- e. Payment for crack sealing shall be per lump sum, but can be billed at the same percentage complete as Bid Items 3, 4, 10, and 11.

**2-12.8 ITEM 9. INSTALL PAVEMENT INTERLAYER** – The unit price bid per square yard shall include all the work involved in the following:

- a. The pavement interlayer shall be GlasPave 50 or equivalent.

- b. The pavement must be suitably smooth prior to installation per the manufacturer's requirements or recommendations for installation. If the pavement is not smooth enough, the contractor must micro-mill or install a leveling course as part of this bid item.
- c. All work involved in furnishing and installing the GlasPave 50 interlayer tacked and full width of the paving area with the required overlap per the manufacturer's requirements or recommendations for installation.

**2-12.9 ITEMS 10, 11, & 25. 2" OR 3" OVERLAY PG 64-10 (3/8") HMA** – The unit price bid per lump sum shall include all the work involved in the following:

- a. All work and material in order to install 2" or 3" AC overlay on streets and 2" overlay on alleys. Refer to the street list in the appendix as one or two streets require a taper near the gutter.
- b. For alleys, there shall be positive cross slope towards the center of the alley. If there is an adjacent private property with grades lower than the center of the alley, the contractor shall create a high point within 1" of the property line to ensure positive cross slope to the center of the alley.
- c. Raising and/or adjusting to new grade, all water valve covers and gas valve covers within the limits of the paving operations. All water valve caps shall be loosened and painted to match the existing paint color. The contractor shall supply all water valve sleeves if they are required for water valve cover adjustment. The Contractor shall protect and adjust existing manhole frame and covers (belonging to the City of Beverly Hills) to finished grade in accordance with Section 3-10. The Contractor is also required to adjust all City of Beverly Hills water, sewer and storm drain manholes and valve covers and all Los Angeles County Department of Public Works storm drain manhole covers to grade. The Contractor may also be directed to install existing water meter boxes to grade in accordance with Section 3-11.

The City Engineer may elect not to adjust any of the utility manholes, valve covers, boxes or vaults. The Contractor must, therefore, include in the bid price the cost to grind and overlay around such appurtenances that may be present. Compensation for manhole frame and cover adjustment and for the installation of existing water meter boxes to grade, if directed by the City Engineer shall be made under those applicable bid items.

- d. The Contractor shall notify all other impacted utilities at least 48 hours prior to the paving work. The Contractor is responsible for scheduling with all of the appropriate utility owners to raise their manhole and vault covers to grade. These adjustments shall be made prior to the work being accepted by the City Engineer.
- e. Sweeping by mechanical wet sweeper will be required at least twice: 1) the day after AC paving is placed and 2) one week after the AC paving is placed.

**2-12.10 ITEM 12. MICROSURFACING EMULSION (MSE) TYPE II** – The unit price bid per square yard shall include all the work involved in the following:

- a. All work and material required for preparation and installation of the microsurfacing emulsion type II.
- b. Carbon black shall be added to the MSE for all streets.
- c. Test strips will be required. The contractor may modify the MSE to ensure that the street will be drivable within 1 hour of placement.

**2-12.11 ITEM 13. EFLEX MSE** – The unit price bid per square yard shall include all the work involved in the following:

- a. All work and material required for preparation and installation of the eFlex microsurfacing emulsion (mix design CSS-1EP).
- b. Carbon black shall be added to the eFlex MSE for all streets.
- c. Test strips will be required. The contractor may modify the eFlex MSE to ensure that the street will be drivable within 1 hour of placement.
- d. Refer to the appendix for technical specifications for fiberized emulsion with mix design CSS-1EP. For all other requirements, refer to the appendix for microsurfacing.

**2-12.12 ITEM 14, 20, 21, 29, & 30. R/R CONCRETE IMPROVEMENTS (AS NECESSARY)** – The unit prices for these Bid Items shall include all the work involved in removing and replacing the existing improvements in accordance with Section 3-05 and the applicable standard plans from the Appendices. The minimum sidewalk thickness will be 4-inches, 6-inches for access ramps, and 6-inches for curb and gutter. The work under this item shall also include the following:

- a. Sawcutting, breaking, removal, haulaway and disposal of all materials such as concrete, soil, asphalt, etc. required to construct the new improvements.
- b. Sawcutting, removal, haulaway and disposing of interfering tree and ground cover roots. Apply moisture, topsoil, and burlap wrap to damaged and/or exposed roots under the Supervision of the Recreation and Parks Department.
- c. Protection of existing street lights, traffic signals, ornamental light conduits, irrigation lines and curb drains. Repairs to damaged irrigation lines and/or sprinkler heads shall be made within 72 hours
- d. Protection, and if necessary, the removal and replacement or relocation of any obstruction to the work such as street signs, newspaper racks, water meter boxes, utility boxes and vaults, etc. If the Contractor has not used reasonable care in protecting any of the obstructions, full replacement costs shall be borne by the Contractor.
- e. Fine grading of the subgrade. Fill material shall be crushed miscellaneous base (CMB) compacted to 95% relative compaction. The cost of CMB required for these items of work will be included in this bid item.

- f. For alley gutters with manholes, adjust the manhole to proper grade. Refer the city standard drawings for alley gutters.
- f. Re-sod lawns that have been damaged or removed and cover with suitable mulch.
- g. All work involved in the removal and reconstruction of depressed curb and gutter for curb ramps, driveway approaches and alley approaches shall be paid under those Bid Items.
- h. All paint and glass beads used for repainting curb address shall meet the minimum standards of the State of California for traffic painting. In addition all paints shall meet all federal, state, and local regulations for applied use. The successful bidder shall supply to the City documentation that the paint materials utilized have been approved for the use specified. Paint shall be delivered to the work site in new, unopened, airtight containers, appropriately identified with the manufacturer's name, date of manufacture, type of paint, state specification number, and a lot or batch number. No paint shall be used until at least seven (7) days have elapsed from the date of manufacture. The Contractor shall be required to furnish paint per the following specifications.

WHITE PAINT - PERVO PAINT COMPANY STREET MARKING PAINT NUMBER 4473A.  
 Paint to be applied to a thickness of 8 mils (wet thickness). Paint to be used as backing for street address numbers.

BLACK PAINT - PERVO PAINT COMPANY STREET MARKING PAINT NUMBER 4775A.  
 Paint to be applied to a thickness of 7 mils (wet thickness).

GLASS BEADS - Glass beads shall conform to State Specifications 8010-711-22 and shall be mechanically applied at a rate of six (6) to eight (8) pounds of beads per gallon of paint. Glass beads shall be applied to the white fields that have been painted on curb faces by use of a dispensing device developed for the purpose.

Paint shall be mixed and applied per manufacturers written instructions. Surfaces shall be free of all foreign matter and loose or scaling paint by wire brushing, chipping, needle scaling, and hand or power sanding. Sandblasting will not be permitted.

The format of the address numbers shall be composed of a reflectorized white field with black numbers. The numbers shall be sharply defined with no running or blurring of the edges. The numbers shall be four (4) inches in height and the paint strokes a minimum of five-eighths (5/8") inches in width.

**2-12.13 ITEMS 15 & 24. POTHOLE OR SECTION REPAIR 8" OR 6" PG 64-10 HMA OVER 6" CMB** – The unit price bid per square foot shall include all the work involved in the following:

- a. Coordinate with the inspector to identify spot repairs. Some locations will be identified after the milling process. Pothole or section repair sizes shall be less than 1,000 SF each.
- b. All the work involved in sawcutting, breaking, removal, haulaway and disposal of existing AC/PCC pavement, soil, tree roots, etc. at locations identified by the City Engineer. All

AC/PCC Pavement shall be sawcut prior to removal. The work under this item shall also include the furnishing, placing and compaction of 6" or 8" asphalt concrete material over 6" compacted CMB (95% compaction).

**2-12.14 ITEMS 16. FURNISH & INSTALL QWICK KURB** – The unit price bid per lineal foot shall include all the work involved in the following:

- a. All labor, tools, equipment, and materials necessary install the Qwick Kurb system.
- b. Surface preparation, installation, and cleanup.
- c. The Qwick Kurb system shall include all horizontal elements, vertical elements, reflective arcs, and all required parts and hardware for installation. Vertical elements shall be the model L104 Mega Marker.

**2-12.15 ITEMS 17. R/R NON-RESIDENTIAL CURB & GUTTER (COLDWATER CANON DRIVE)** – The unit price bid per lineal foot shall include all the work involved in the following:

- a. Remove existing and install curb (6" high) & gutter (10" thick) per finish details on BH107. Install 6" of compacted CMB instead of 4".
- b. Include dowels #6 @ 16" O.C. with an 8" embedment to connect to the new street pavement section to be constructed. Also dowel & key into adjacent existing curb & gutter.
- c. Use a high early mix 750-C-5000 with a water reducing admixture. The gutter should be driveable in 1 day. Alternative mix designs can be proposed.
- d. During all phases of construction, work must take place in the curb lane. There shall be no standing, loading, pouring of concrete, etc. from the travel lane. One travel lane in each direction must be maintained at all times. If the contractor feels this is not possible, the contractor may choose to work on weekends at no additional cost to the city.

**2-12.16 ITEMS 18. R/R 10" CONCRETE PAVEMENT OVER 6" CMB (COLDWATER CANON DRIVE)** – The unit price bid per square foot shall include all the work involved in the following:

- a. Remove existing pavement which can be as thick as 12" thick. Install 10" thick concrete over 6" of compacted CMB.
- b. Include dowels #6 @ 16" O.C. with an 8" embedment to connect to the existing street pavement. Also key under the existing pavement at least 4".
- c. Use a high early mix 750-C-5000 with a water reducing admixture. The gutter should be driveable in 1 day. Alternative mix designs can be proposed.
- d. During all phases of construction, work must take place in the curb lane. There shall be no standing, loading, pouring of concrete, etc. from the travel lane. One travel lane in each

direction must be maintained at all times. If the contractor feels this is not possible, the contractor may choose to work on weekends at no additional cost to the city.

**2-12.17 ITEMS 19. MESSAGE BOARDS/TRAFFIC CONTROL (COLDWATER CANON DRIVE) –**

The unit price bid per square foot shall include all the work involved in the following:

- a. Provide all traffic control, flaggers, and message boards in order to maintain one lane of traffic in each direction at all times. The curb lane shall be properly closed off to allow safe work.
- b. Message boards (1 for each direction) shall be placed 2 weeks ahead of any work. The message boards shall warn of the street work & give work dates.
- c. During all phases of construction, work must take place in the curb lane. There shall be no standing, loading, pouring of concrete, etc. from the travel lane. One travel lane in each direction must be maintained at all times. If the contractor feels this is not possible, the contractor may choose to work on weekends at no additional cost to the city.

**2-12.18 ITEM 26. R/R 6” PG 64-10 HMA (ALLEY RECONSTRUCTION, IF NECESSARY) –**

The unit price bid per ton shall include all the work involved in the following:

- a. In the case where milling reveals that the pavement is unsuitable for overlay, the contractor may be directed to reconstruct the alley. This bid item pertains to pavement sections 1,000 SF or larger.
- b. All work and materials to remove existing pavement, grade, recompact aggregate layer, and pave 6” of hot mix asphalt PG 64-10.
- c. If there is no aggregate layer or if the aggregate layer is less than 6” thick, the contractor is install additional CMB up to 6” thick compacted to 95%. The additional CMB will be billed to bid item 28.

**2-12.19 ITEMS 27. SURVEY – TIE OUT & REINSTALL MARKERS (ALL LOCATIONS) –**

The unit price bid per lump sum shall include all the work involved in the following:

- a. Inspect all streets and alleys prior to construction and tie out all survey markers or monuments that will be destroyed by the street improvements.
- b. Reinstall all survey markers and provide the City a copy of the office calculations and documents submitted to the County for filing in connection with the aforementioned work.

**2-12.20 ITEMS 28. INSTALL CMB OR CAB (IF NECESSARY) –**

The unit price bid per ton shall include all the work involved in the following:

- a. This item is to be used in case an alley identified for reconstruction does not already have an aggregate base of at least 6” thick compacted.

- b. All work and materials in order to install CMB or CAB as needed and compacted to 95%.

**2-12.21 ITEMS 31. INSTALL TRUNCATED DOMES** – The unit price bid per ton shall include all the work involved in the following:

- a. Adjacent to streets identified for paving, the contractor shall inspect existing access ramps for compliance. If a ramp is compliant with slopes and layout, but is missing truncated domes, the contractor shall retrofit the existing ramp with truncated domes.
- b. Refer to City Standard drawing BH103 for access ramps.

**2-12.22 ITEMS 32. STRIPING AND MARKINGS** – The unit price bid per lump sum shall include all the work involved in the following:

- a. Prior to doing any work, the Contractor shall record the existing striping configuration.
- b. All work involved in furnishing and applying painted traffic stripes (2 coats), including glass beads and reflective, nonreflective, and blue pavement markers in accordance with Section 3-14. Traffic markings shall include crosswalks, limit lines, legends, arrows, parking stalls, curb markings, etc.
- c. This bid item shall apply to all improved areas of the project where existing striping and markings were removed as part of construction. Repainting striping and markings will be required for areas that are damaged or tracked upon inside and outside of the project area as well.
- d. The contract price per lump sum for painted traffic stripes and markings shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in applying traffic stripes and pavement markers, complete in place, including establishing alignment for stripes, and layout work.
- e. Percentage complete shall correlate to the percentage of streets and alleys completed.

**2-12.23 ITEMS 33. ADJUST MANHOLES TO GRADE (IF NECESSARY)** – The unit price bid per lump sum shall include all the work involved in the following:

- a. All work and material needed to adjust manholes to final grade.
- b. Include demo, grade rings, concrete, and final AC patch paving.
- c. If the manhole is on the gutter section of an alley, adjustment and alley gutter installation shall be per bid item 20.

**2-12.24 ITEMS 34. ADJUST WATER METER BOX TO GRADE (IF NECESSARY)** – The unit price bid per lump sum shall include all the work involved in the following:

- a. All work and material needed to adjust water meter boxes to final grade.

- b. Work shall include raising the box to grade by placing it on bricks or adobes, pouring a 6" collar around the box and allowing the concrete to flow below the frame of the box.
- c. After the 6" collar is poured, clean the excess concrete from inside the box. Additional mortar grouting may be necessary inside and at the bottom of the box.
- d. If the existing box is damaged, the City will provide new boxes upon request.

## SECTION 3

### CONSTRUCTION REQUIREMENTS AND MATERIALS

**3-01 REMOVAL AND DISPOSAL OF MATERIALS** - All materials removed must be hauled away from the project site and legally disposed of at a materials site located outside the City limits of Beverly Hills. The Contractor shall provide the City all documentation as to the weight or volume of materials removed during excavations in accordance with the requirements of Public Resources Code Section 40000-40004. This documentation shall be in the form of certified tickets from a Concrete & Debris (C&D) processing facility or in the form of a certified log (by an officer of the company) showing dates of excavation and/or removal of concrete and/or asphalt materials, amounts (in weights for volumes) and the facility where the materials were recycled. In addition, the contractor shall supply a similar self-certified log accounting for all materials that were not recycled. The Contractor shall supply the logs to the City **prior to the approval of payment requests** covering the associated work.

Except as otherwise specifically authorized by the City Engineer, all self-propelled equipment used by the Contractor in excavation, breaking and removal operations for improvement work shall be equipped with rubber tires.

**3-02 AVOIDANCE OF DUST NUISANCE** - The Contractor shall take all necessary measures in order to avoid the nuisance of excessive dust resulting from the process of breaking, reconstructing and removing any materials on the project site. Such measures shall be employed for the duration of the contract work. Refer to *Section 7-8.1* of the Standard Specifications.

**3-03 STORAGE OF MATERIALS IN PUBLIC STREETS** - *Section 7-10.2* of the Standard Specifications is deleted and replaced by the following: "The Contractor shall not store construction materials, equipment or excavated material in the public right-of-way at any time without prior written permission from the City Engineer."

**3-04 UNTREATED BASE MATERIALS** - Crushed miscellaneous base materials shall comply with the requirements in Section 200-2.4 and shall be placed in accordance with the requirements of Section 301-2 of the Standard Specifications.

**3-05 PCC SPECIFICATIONS** - The Contractor shall comply with the requirements set forth in Section 303-5 of the Standard Specifications for the construction of PCC improvements. The concrete material used for various types of improvements shall be as shown in the following table:

Type of Improvement	PCC Specification	Notes
Curb, gutter, sidewalk and curb ramp, driveway approaches, catch basin top slabs	Class 520 C 2500	1. Concrete shall contain 2% calcium chloride by weight.
Alley gutter, cross gutter, local depressions, alley approaches, integral curb and bus pads	Class 560 C 3250	1. Concrete shall contain 2% calcium chloride by weight, if requested by the City Engineer 2. Type III Cement (high early strength) shall be used. 3. Fiber mesh shall be added to the mix for integral curb and bus pads in accordance with the manufacturer's instructions.
High early alternative	Class 750-C-5000	Use WRDA 64 or equivalent water reducing admixture.

**3-05.1 PCC Improvements** - PCC improvements shall be constructed in accordance with the following requirements:

- a) The City will mark the removal area at each location.
- b) Score lines shall match adjacent markings.
- c) The Contractor will be responsible for all markings on newly laid concrete. The City Engineer may require removal and reconstruction of marked or damaged work.

### **3-06 TACK COAT APPLICATION**

Streets or alleys that require tack coat application shall have the surface prepared as noted below.

A tack coat shall be applied over the roadway surface at the rate of 0.05 to 0.07 gallons per square yard prior to resurfacing. The tack coat shall be PG6 4-10 hot tack emulsified asphalt complying with the requirements of Section 302-5 of the Standard Specifications.

The pavement surface upon which the tack coat will be applied shall be free of dust, dirt or any foreign material. It shall not be applied at a time when winds are carrying sand or dust in the air or during any rainy or wet weather. Application shall be carried only far enough in advance of placing the resurfacing materials as ordered by the City Engineer.

**3-07 ASPHALTIC CONCRETE PAVEMENT** – Asphalt concrete to be placed shall conform to the requirements of Section 203-6 of the Standard Specification. AC wearing surface course shall be Type D2 PG 64-10 paving grade asphalt. AC base course shall be Type C2 PG 64-10. All asphalt shall be placed on a hot tack coated surface using an PG 64-10 hot tack. All hot tack coated surfaces must be covered at end of each day's work. Rubberized asphalt shall be ARHM-GG PG 64-16. Refer to the appendix.

**3-08 COLD MILLING** – The Contractor shall remove street pavement by the cold milling method in accordance with the details described in this specifications in the areas designated by the City Engineer.

The milling shall be performed in such a manner that the pavement is not torn, gouged, shoved, broken or otherwise damaged by the operation. The surface after milling shall be a uniform section. Areas damaged by the Contractor shall be removed and replaced with full depth asphalt concrete.

After each day's operation, the Contractor shall sweep the street with mechanical sweeping equipment as required by the City Engineer. The milling machine shall be specifically designed and built for cold milling of bituminous and/or concrete pavement. It shall be self-propelled and shall have the capability of spraying water at the cutting site to reduce dust. The machine shall be capable of removing the material next to the gutter of the pavement being reconditioned and be so designed that the operation thereof can at all times observe the milling operation without leaving the controls. The machine shall be adjustable as to crown and depth. It shall deep cut in one pass a maximum of two inches and shall not produce fumes or smoke.

**3-9 PERMANENT SURVEY MARKERS** – The following is in addition to the provisions of Section 2-9.1 of the Greenbook:

The Contractor is required to locate and tie out survey monuments in the project area prior to construction involving street and highways, and to file with the County Surveyor a Corner Record of any such work. Prior to the issuance of a completion certificate, the Contractor is required to file a Corner Record for survey monumentation that is replaced. All such survey work shall be performed under the supervision of a California licensed Land Surveyor or a Civil Engineer authorized to perform such work.

The Contractor shall provide the City a copy of the office calculations and documents submitted to the County for filing in connection with the aforementioned work.

The payment for surveying, related professional services, office calculation, and furnishing all labor, materials, equipment, tools and incidentals, and for doing work involved shall be considered as included in the various items of work, and no additional compensation will be allowed therefore.

**3-10 ADJUST MANHOLE COVERS TO GRADE** - Sewer and manhole covers shall be adjusted to finished roadway grade in accordance with the requirements of Section 301-1.6 and 302-5.8 of the Standard Specifications after the roadway is resurfaced.

**3-11 ADJUST WATER VAULTS TO GRADE** - Type I and II water vault frames and covers shall be adjusted to finished roadway grade. The AC resurfacing material required shall be wearing surface course AC pavement in accordance with Section 3-07 of these specifications.

**3-12 MAINTAINING EXISTING AND TEMPORARY ELECTRICAL SYSTEMS** - All work, materials and equipment required to keep the existing systems operational shall be considered as included in the unit prices bid for the particular items of work where such electrical systems occur and no additional compensation will be allowed therefore.

Where the Contractor installed facilities are damaged prior to final acceptance by the City Engineer, the Contractor shall repair or replace such facilities at his own expense.

### **3-13 CHANGES IN WORK**

**3-13.1 BASES FOR ESTABLISHING COSTS** - Work by Contractor. An allowance for overhead and profit shall be added to the Contractor's cost as determined under 3-3.2.2 and shall constitute the full and complete markup for all overhead and profit on extra work performed by the Contractor. The Contractor shall be compensated for the actual increase in the Contractor's bond premium caused by the extra work. For costs determined under each subsection in 3-3.2.2, the markup shall be:

- |                             |     |
|-----------------------------|-----|
| a) Labor                    | 20% |
| b) Materials                | 15% |
| c) Tools & Equipment Rental | 15% |
| d) Other Items              | 15% |

Work by Subcontractor. When any of the extra work is performed by a Subcontractor, the markup established in 3-3.2.3.1 shall be applied to the Subcontractor's costs as determined under 3-3.2.2.

An allowance for the Contractor's overhead and profit shall be added to the sum of the Subcontractor's costs and markup and shall constitute the full and complete markup for all overhead and profit for the Contractor on work by the Subcontractor. For Contractor markup of Subcontractor's costs, the allowance shall be **10% on the first \$2,000 or portion thereof, and 5% on costs in excess of \$2,000.**

**STANDARD CONTRACTUAL REQUIREMENTS  
FOR PUBLIC IMPROVEMENTS  
IN THE CITY OF BEVERLY HILLS CALIFORNIA**

**PART I**

**GENERAL PROVISIONS**

**1-01 APPLICABILITY** - Whenever these Standard Contractual Requirements are referred to in any proposal form, specifications, or contract for any work of public improvement proposed to be made by the City of Beverly Hills, they are made an integral part of all such documents pertaining to such work and are incorporated in each of such documents by reference as though set forth at length therein.

**1-02 DEFINITION OF TERMS** - The following terms, unless the context requires a different meaning, when used herein or in the proposal form, specifications, or the contract, shall have the following meanings:

**BIDDER** - Any individual, firm, partnership, corporation, or combination thereof, submitting a proposal for work contemplated.

**BIDDER'S SECURITY** - The cash, cashier's or certified check, or bidder's bond accompanying the proposal submitted by the bidder, as a guaranty that the bidder will enter into a contract with the City for the performance of the work if the contract is awarded to the bidder.

**CITY** - The City of Beverly Hills, California.

**CITY ATTORNEY** - The City Attorney of the City.

**CITY CLERK** - The City Clerk of the City.

**CITY ENGINEER** - The City Engineer of the City

**CITY COUNCIL** - The Council of the City of Beverly Hills.

**CODE** - The terms Business and Professions Code, Civil Code, Government Code, Labor Code, and Streets and Highways Code refer to codes of the State of California.

**CONTRACT DOCUMENTS** - The written agreement covering the performance of the work and the furnishing of labor, materials, tools, and equipment in the construction of the work. The contract shall include the notice to bidders, proposal, plans, specifications, these Standard Contractual Requirements, and contract bonds; also any and all supplemental agreements amending or extending the work contemplated and which may be required to complete the work in a substantial and acceptable manner.

**CONTRACTOR** - The person or persons, firm, partnership, corporation, or combination thereof, who have entered into a contract with the City, as party or parties of the second part.

**INSPECTOR** - The Inspector of the Department of Public Works of the City, authorized by the City Engineer to represent him in the field during the performance of the work.

**NOTICE TO BIDDERS** - The public advertisement through which the City invites bids for the performance of specific work.

**PLANS** - The official project drawings and Standard Drawings, profiles, cross sections, working drawings and supplemental drawings, or reproductions thereof, approved by the City Engineer, which show the location, character, dimensions, and details of the work to be performed.

**PROJECT DRAWINGS** - The project drawings are specific details and dimensions to the work and are supplemented by the Standard Drawings insofar as the same may apply.

**PROPOSAL OR BID** - The offer of the bidder for the work when made out and submitted on the prescribed proposal form, properly signed and guaranteed.

**PROPOSAL FORM** - The form furnished to prospective bidders by the City, for use by the bidder in preparing and submitting a bid.

**PUBLIC UTILITIES** - Railroad tracks, overhead or underground wires, pipe lines, conduit, ducts or structures owned, operated or maintained along or across a public right of way, including such installations owned by the Water Department, the Fire Department or the Police Department of the City, but excluding sewers, storm drains, street lighting systems and traffic signal systems owned by the City and operated or maintained by the Department of Public Works.

**PUBLIC WORKS DIRECTOR** - The Public Works Director of the City.

**REFERENCE SPECIFICATIONS** - Bulletins, standards, rules, methods of analysis or test, codes, and specifications of other agencies, engineering societies, or industrial associations referred to on the plans or in the specifications, copies of which are on file in the office of the City Engineer.

**ROADWAY** - That portion of a street or alley reserved for vehicular use.

**SPECIFICATIONS** - The project specifications prepared for the proposed work, and specifications included therein by reference, including standard specifications of other agencies, and any other specifications contained or referred to in supplemental agreements between the Contractor and the City.

**STANDARD DRAWINGS** - Plans of structures or devices adopted for work in the City and referred to on the plans or in the specifications by title or index number, or standard drawings or plans of other agencies which are referred to on the plans or in the specifications.

**STATE** - The State of California.

**STREET SUPERINTENDENT** - The City Engineer who has been authorized by the City Council to act in the capacity of Street Superintendent in the course of improvements carried under the proceedings of the Improvement Act of 1911, as amended, now a part of the Streets and Highways Code, as amended.

**SUBCONTRACTOR** - The person or persons, firm, partnership, corporation or combination thereof, who have entered into a contract with the Contractor to perform part of the work.

**SUBGRADE** - The surface to be used as a base for the pavement, gutter sidewalk, conduit, pipe, or structure proposed to be installed.

**SURETY** - Any individual, firm or corporation, bound with and for the Contractor for the acceptable performance, execution, and completion of the work, and for the satisfaction of all obligations incurred.

**WORK, PROJECT OR IMPROVEMENT** - All the work specified, indicated, shown or contemplated in the contract to construct the improvement including all alterations, amendments, or extensions thereto made by change order or other written orders of the City Engineer.

The meaning of any other word not mentioned herein shall be clarified by the City Engineer at the request of the Contractor, who shall accept the furnished interpretation as representing the true meaning of such word.

**1-03 ABBREVIATIONS** - Following is a list of the most common abbreviations and symbols used on the plans and in the specifications.

<b><u>ABBREVIATIONS</u></b>	<b><u>WORD or WORDS</u></b>
<b>AC</b>	Asphalt concrete
<b>ASTM</b>	American Society for Testing Materials
<b>BC</b>	Beginning of curve
<b>BCR</b>	Beginning of curb return
<b>BHW</b>	Beverly Hills Water Department
<b>BM</b>	Bench mark
<b>BVC</b>	Beginning of vertical curve
<b>CB</b>	Catch basin
<b>CC or C/C</b>	Center to center
<b>CF</b>	Curb face
<b>cfs</b>	Cubic feet per second
<b>CIP</b>	Cast iron pipe
<b>CL or C</b>	Center line
<b>CMP</b>	Corrugated metal pipe
<b>Conc.</b>	Concrete
<b>Cu.</b>	Cubic
<b>D</b>	Diameter of pipe
<b>Dia.</b>	Diameter
<b>Dr</b>	Drive
<b>DW&amp;P</b>	Los Angeles Department of Water & Power
<b>Dwy.</b>	Driveway
<b>EC</b>	End of curve
<b>ECR</b>	End of curb return
<b>EG</b>	Edge of gutter
<b>Elev.</b>	Elevation
<b>EVC</b>	End of vertical curve
<b>Ex or Exist.</b>	Existing
<b>FB</b>	Field Book
<b>FH</b>	Fire hydrant
<b>FL</b>	Flow line
<b>fps</b>	Feet per second
<b>FS</b>	Finished surface
<b>Ft.</b>	Foot or feet
<b>Galv.</b>	Galvanized
<b>GL</b>	Ground line
<b>Gr</b>	Grade
<b>H</b>	High or height
<b>HC</b>	House connection (sewer)
<b>Hor.</b>	Horizontal

**ABBREVIATIONS****WORD or WORDS**

<b>ID</b>	Inside diameter
<b>JC</b>	Junction chamber
<b>JS</b>	Junction structure
<b>L</b>	Length
<b>LACFCD</b>	Los Angeles County Flood Control District
<b>L&amp;T</b>	Lead and tack
<b>LD</b>	Local depression
<b>Lin.</b>	Linear
<b>Long.</b>	Longitudinal
<b>MH</b>	Manhole
<b>MTD</b>	Multiple tile duct
<b>MWD</b>	Metropolitan Water District
<b>No.</b>	Number
<b>OD</b>	Outside diameter
<b>OLC.</b>	Ornamental lighting conduit
<b>PCC</b>	Portland cement concrete or point of compound curvature
<b>PI</b>	Point of intersection
<b>PL</b>	Property line
<b>PP</b>	Power pole
<b>PRC</b>	Point of reverse curvature
<b>Prop.</b>	Proposed
<b>psi</b>	Pounds per square inch
<b>PT</b>	Point of tangency
<b>PT&amp;T</b>	Pacific Telephone & Telegraph Co.
<b>Pvmt.</b>	Pavement
<b>Q</b>	Rate of flow
<b>R</b>	Radius
<b>RC</b>	Reinforced concrete
<b>RCP</b>	Reinforced concrete pipe
<b>Rdwy</b>	Roadway
<b>R&amp;O</b>	Rock and oil
<b>R/W</b>	Right of way
<b>S</b>	Slope
<b>San.</b>	Sanitary
<b>SCE</b>	Southern California Edison Company
<b>SCG</b>	Southern California Gas Company
<b>SD</b>	Storm drain
<b>Spec.</b>	Specifications
<b>SPCo</b>	Southern Pacific Company
<b>Sq.</b>	Square
<b>SS</b>	Sanitary sewer

**ABBREVIATIONS****WORD or WORDS**

<b>St.</b>	Street
<b>Sta.</b>	Station
<b>Std.</b>	Standard
<b>Str.Gr.</b>	Straight Grade
<b>T</b>	Tangent distance
<b>TC</b>	Top of curb
<b>TS</b>	Traffic signal or transition structure
<b>TSC</b>	Traffic signal conduit
<b>USC&amp;GS</b>	United States Coast and Geodetic Survey
<b>USGS</b>	United States Geological Survey
<b>V</b>	Depth of catch basin
<b>v</b>	Velocity
<b>VC</b>	Vertical curve
<b>Vert.</b>	Vertical
<b>W</b>	Width
<b>WS</b>	Water surface or wearing surface
<b>Yd.</b>	Yard or yards

The meaning of any other symbol or abbreviation not shown on the preceding list and not clarified in the plans, specifications, or contract, shall be interpreted by the City Engineer at the request of the Contractor, who shall accept such interpretation as representing the true meaning thereof.

REV 10-30-80  
REV 10-12-88  
REV 07-17-90  
REV 03-13-91  
REV 04-22-03

## PART 2

### PROPOSAL REQUIREMENTS

**2-01 PROPOSAL FORMS** - All bids must be submitted on the proposal form attached to the specifications for a given project, and shall be delivered at the office of the City Clerk of Beverly Hills, located at 455 North Rexford Drive, Beverly Hills, California 90210.

All proposals must give the prices bid, both in written words and in figures, and must be signed by the bidder, who must state his/her address. If the proposal is made by an individual, his/her name, post office address, and telephone number must be given. If made by a firm or partnership, the proposal must show the name, post office address, and telephone number of each member of the firm or partnership must be shown. If made by a corporation, the proposal must show the name of the state under the laws of which the corporation was chartered, and the names, title and business addresses of the president, secretary and treasurer.

**2-02 REJECTION OF PROPOSALS CONTAINING ALTERATIONS, ERASURES OR IRREGULARITIES** - Proposals may be rejected by the City Council if they show any alterations of form, additions not called for, conditional or alternative bids, incomplete bids, erasures or irregularities of any kind. The City reserves the right to reject any or all bids, and to waive any informality or irregularity in any bid.

**2-03 BIDDER'S SECURITY** - Each bid submitted must be accompanied by cash, cashier's check, or certified check made payable to the City, or a bidder's bond in favor of the City, in the form set forth in Exhibit "A" attached hereto. Any of the foregoing types of bidder's security must be in an amount equal to at least ten percent (10%) of the total bid submitted by the bidder for the project. A bidder's bond shall be executed by a corporate surety acceptable to, and approved by, the City Attorney. A bid will not be considered unless one of the above-mentioned forms of bidder's security is enclosed with it.

**2-04 FORFEITURE OF THE BIDDER'S SECURITY** - If the successful bidder fails to execute the contract and furnish the necessary bonds and insurance within ten (10) days from the date of award of the contract, the bidder's security shall be forfeited to the City as liquidated damages.

**2-05 BONDING LETTER** - If cash, or cashier's check, or a certified check is furnished for the bid bond, a letter is required from a bonding company stating that in the event the contract is awarded to the bidder the bonding company will furnish, at the bidder's expense, the bonds required by Paragraph 2-11 hereof.

**2-06 WITHDRAWAL OF BIDS** - A bid may be withdrawn by a bidder prior to, but not after, the date and hour fixed for the opening of the bids, as said date and hour are specified in the Notice to Bidders.

**2-07 JURISDICTION OF THE CITY COUNCIL REGARDING BIDS** - All bids shall be under the jurisdiction of the City Council and subject to final acceptance or rejection until after the City Council has awarded the contract and said contract has been duly entered into with the successful bidder.

**2-08 DECISION AS TO WHICH CONTRACTOR IS THE LOWEST AND BEST BIDDER** - All bidders must submit with their proposal satisfactory evidence that they are capable of performing the work in accordance with the plans and specifications. The City Engineer may require any bidder bidding on any public improvement to submit experience records covering a three-year period. The City Council may reject the bid of any bidder who has been delinquent or unfaithful in the performance of any previous contract work. The decision of the City Council as to which bidder is considered the "lowest responsible bidder" will be based not only on the actual amount of the bid but also on the relative competence and experience of the bidders, with particular regard to the quality of performance of any work done by them for the City in the past, and such decision shall be final and binding upon all persons.

**2-09 AWARDS** - A decision with reference to the acceptance of bid and the award of a contract will be made by the City Council within sixty (60) days after the opening of bids.

**2-10 EXECUTION OF THE CONTRACT** - The contract, in the form set forth in Exhibit "C" attached hereto, shall be executed by the successful bidder, in accordance with the instructions set forth in Exhibit "B" attached hereto, and returned to the City for execution by the City, and shall be accompanied by the bonds required in Paragraph 2-11 hereof and the evidence of insurance required by Paragraph 3-12 hereof, all within ten (10) days after the bidder has received notice of the award of the contract. No bid or proposal shall be considered binding upon the City until such time as it has been executed by the City. The failure of the successful bidder to execute the contract and to submit acceptable bonds and evidence of insurance as, and within the time, required shall be cause for the annulment of the award and the forfeiture of the bidder's security.

**2-11 CONTRACT BONDS** - The successful bidder shall furnish to the City, at his own expense, two surety bonds. One bond shall be in the amount of One Hundred percent (100%) of the contract price, in the form set forth in Exhibit "D" attached hereto, to guarantee faithful performance of the contract work. The "Performance Bond" shall guarantee that all materials and workmanship will be free from original or developed defects. The "Performance Bond" must remain in effect until the end of all warranty periods set forth in the contract.

All work shall be guaranteed by the Contractor against defective workmanship and materials furnished by the Contractor for a period of one (1) year from the date the work was accepted. The Contractor shall replace or repair any such defective work in a manner satisfactory to the City Engineer, after notice to do so from the City Engineer, and within the time specified in the notice. If the Contractor fails to make such replacement or repairs within the time specified in the notice, the City may perform this work and the Contractor's sureties shall be liable for the cost thereof.

The other bond, in an amount not less than One Hundred percent (100%) of the contract price in the form set forth in Exhibit "E" attached hereto, shall be furnished as required by Section 2-4 of the latest edition of the "Standard Specifications for Public Works Construction", adopted by a Joint Cooperative Committee of the Southern California Chapter of the American Public Works Association and Southern California District of the Associated General Contractors of California.

Each bond shall be executed in accordance with the instructions set forth in Exhibit "E" attached hereto, and each bond shall be executed by a corporate surety acceptable to, and approved by, the City Attorney.

**2-12 RETURN OF BIDDER'S SECURITY** - If cash, or cashier's check, or certified check is furnished as bidder's security, the City Clerk will return the bidder's security (excepting anyone subject to forfeiture) upon the occurrence of either of the following: the decision of the Council not to award a contract, or the compliance by a successful bidder with Paragraph 2-10 hereof.

**2-13 EXAMINATION OF THE SITE OF THE WORK, PLANS AND SPECIFICATIONS** - Before submitting their bids, all bidders are required to examine carefully the site of the project and the proposal, plans, specifications, and contract forms for the work contemplated, and it will be assumed that all bidders have investigated and are satisfied with the conditions to be encountered as to the character, quality, and quantities of work to be performed and materials to be furnished, as well as to the requirements of the plans, specifications, and the contract. Quantities and dimensions, as shown on the plans, specifications, and proposal form, shall be considered as being only approximate and merely intended to assist the bidders in checking their own figures as ascertained at the site of the proposed work. The submission of a proposal shall constitute a representation and warranty by the bidder that the bidder has made such an examination.

**2-14 COMPLIANCE WITH THE PROVISIONS OF THE GOVERNMENT CODE** - All contractors shall conform with the provisions of Sections 4100 to 4113, inclusive, of the Public Contract Code, as amended, concerning subcontractors and subcontracts.

**2-15 REJECTION OF BIDS** - Proposals may be rejected by the City Council, whereupon evidence of prior performance of the bidder, the City Council has made a finding that within a three-year period prior to the bid opening the bidder is not a responsible contractor because of past unsatisfactory performance with the City or with other public entities.

**2-16 COMPLIANCE WITH PROVISIONS OF THE FEDERAL EQUAL EMPLOYMENT OPPORTUNITY BID CONDITIONS** - All bidders to be eligible for the federally-assisted or non-exempt federal construction contracts in the area of jurisdiction of the Los Angeles Building and Construction Trades Council must comply with the provisions of the greater Los Angeles Plan or the affirmative action program, both of which are set forth in the Federal Equal Employment Opportunity Bid Conditions incorporated by reference herein and attached hereto as Exhibit "H" pursuant to the U.S. Department of Labor Orders dated September 23, 1971.

**NOTE:** Exhibit "H" will not be attached hereto for projects which are not financed with federal funds.

**2-17 INTERPRETATION OF CONTRACT DOCUMENTS** - No oral interpretations will be made to any bidder as to the meaning of the contract documents. Should a prospective bidder discover discrepancies or omissions in the contract documents or should a bidder be in doubt as to the meaning of the contract documents, the bidder shall request clarification or modification from the City. Request for an interpretation shall be made in writing and delivered to the City at least 10 days (240 hours) before the time announced for opening the proposals. Interpretations by the City will be in the form of an addendum to the contract documents and, when issued, will be sent as promptly as is practical to all parties to whom the contract documents have been issued. All such addenda shall become part of the contract. The submission of a proposal by the bidder shall constitute the acknowledgment that if awarded the contract, the bidder has carefully reviewed the contract documents, based a bid solely on these documents, found them free of any ambiguity and sufficient for bid purposes, and has not relied on any explanations or interpretations from any other source except as provided for herein.

REV 10-30-80  
REV 10-12-88  
REV 08-19-91  
REV 11-22-95  
REV 05-01-03

## PART 3

### LEGAL RELATIONS AND RESPONSIBILITY TO THE CITY

**3-01 LAWS TO BE OBSERVED** - The Contractor shall be knowledgeable of all existing and pending State and national laws and all municipal ordinances and regulations of the City, which in any manner affect those employed in the work, or the material used in the work, or which in any way affect the conduct of the work, and of all such orders and decrees of bodies or tribunals having jurisdiction or authority over the same. The Contractor shall particularly observe all ordinances of the City in relation to the obstruction of streets or conduct of the work, keeping open passageways and protecting the same where they are exposed or dangerous to traffic.

**3-02 SOCIAL SECURITY REQUIREMENTS** - The Contractor shall furnish to the City satisfactory evidence that he/she and all subcontractors are complying with all requirements of the Federal and State Social Security legislation. The Contractor, at any time on request, shall satisfy the City that the Social Security and Withholding Tax are being properly reported and paid.

**3-03 PREVAILING WAGES** - In accordance with the provisions of Section 1770 et seq., of the Labor Code, the Director of the Department of Industrial Relations of the State of California has ascertained the general prevailing rate of wages applicable to the work to be done under contract for public improvement. The Contractor will be required to pay to all employees on the project sums not less than the sums set forth in the documents entitled "General Prevailing Wage Determination made by the Director of Industrial Relations pursuant to California Labor Code Part 7, Chapter 1, Article 2, Sections 1770, 1773 and 1773.1."

A copy of said documents is on file and may be inspected in the office of the City Engineer in Room G10 of the Beverly Hills City Hall located at 455 North Rexford Drive, Beverly Hills, California 90210.

**3-04 PENALTIES** - The Contractor shall comply with Labor Code Section 1775 and shall forfeit, as a penalty to the City, the sum of twenty-five (\$25.00) dollars for each calendar day or portion thereof during which the Contractor or any subcontractor has paid to any worker employed in the project an amount less than that required by the provisions of the preceding Paragraph 3-03.

**3-05 PAYROLL RECORDS** - The Contractor's attention is directed to Section 1776 of the Labor Code, relating to accurate payroll records, which imposes responsibility upon the Contractor for the maintenance, certification, and availability for inspection of such records for all persons employed by the Contractor or by the subcontractors in connection with the project. The Contractor shall agree through the Contract to comply with this section and the remaining provisions of the Labor Code.

**3-06 WORKING HOURS** - The Contractor shall forfeit, as penalty to the City, the sum of twenty-five (\$25.00) dollars for each worker employed in the execution of the

contract by the Contractor or subcontractors for each calendar day during which such worker is required or permitted to work more than eight (8) hours in any one calendar day and forty (40) hours in any one calendar week, in violation of the provisions of Article 3, Chapter 1, Part 7, Division 2 of the Labor Code (Section 1810 et seq.).

**3-07 APPRENTICES** - Attention is directed to the provisions of Sections 1777.5 and 1777.6 of the Labor Code concerning the employment of apprentices by the Contractor or any subcontractor. The Contractor and all subcontractors shall comply with the requirements of said sections in the employment of apprentices.

Information relative to apprenticeship standards and administration of the apprenticeship program may be obtained from the Department of Industrial Relations, San Francisco, California, or from the Division of Apprenticeship Standards and its branch offices.

**3-08 COLLUSION IN BIDDING** - Any collusion between bidders bidding on the work and limiting free competition in bidding, shall be considered unlawful and may prevent a Contractor who has been a party thereto from receiving payment under the contract.

**3-09 REGISTRATION OF CONTRACTORS** - Only a Contractor licensed in accordance with the provisions of Chapter 9, Division 3 of the Business and Professions Code shall be permitted to enter into a contract with the City for any public improvement.

**3-10 PERMITS AND LICENSES** - The Contractor shall procure all permits and licenses, pay all charges and fees and give all notices necessary and incidental to the due and lawful prosecution of the work.

**3-11 PATENTS** - The Contractor shall assume all responsibility arising from the use of any patented, or allegedly patented, materials, equipment, devices, or processes used on or incorporated in the work, and shall defend, indemnify, and hold harmless the City, and each of its officers, agents, and employees from and against any and all liabilities, demands, claims, damages, losses, costs, and expenses, of whatsoever kind or nature, arising from such use.

**3-12 INDEMNITY** - The Contractor agrees to defend, indemnify, and save harmless the City and each of its officers, agents, and employees, from and against any and all liabilities, demands, claims, damages, losses, costs and expenses of whatsoever kind or nature, including, but not limited to, any and all direct and indirect cost of defense (including attorney fees and court costs), made against, or incurred or suffered by, any such indemnity as a direct or indirect consequence of entering into this contract or of injury, sickness, or disease, including death, to persons or injury to, or destruction of, property, including, but not limited to, the loss of use of property, resulting directly or indirectly from, or in any manner connected with or pertaining to any and all operations, and any and all activities, omissions and conditions in any manner connected therewith or pertaining thereto, of the Contractor under the contract.

**3-13 INSURANCE AND WORKER'S COMPENSATION** - Contractor shall procure and maintain for the duration of the contract, insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work by the Contractor, his agents, representatives, employees or subcontractors, pursuant to contractor's bid or any subsequent contract. Insurance, together with an endorsement in substantially the form set forth in Exhibit "F", attached hereto, shall be of the type, in the amounts and subject to the provisions described below.

(1) Commercial general liability coverage at least as broad as Insurance Services Office Commercial General Liability occurrence coverage ("occurrence" form CG0001, Ed. 11/88) with a limit of not less than \$2,000,000 per occurrence. If the insurance includes a general aggregate limit, that limit shall apply separately to this contract or it shall be at least twice the required per occurrence limit.

(2) Business automobile liability insurance at least as broad as Insurance Services office form CA 0001 (Ed. 12/90) covering Automobile Liability, code 1 "any auto" and endorsement CA 0029 (Ed. 12/88) with a limit not less than \$1,000,000 per accident.

(3) Workers Compensation Insurance as required by the State of California and employers liability insurance with a limit not less than \$1,000,000 per accident in substantially the form set forth in Exhibit "G", attached hereto.

(4) Evidence of Coverage:

(a) Prior to commencement of work under this contract, or within 10 days of notification of award of contract, whichever is shorter, Contractor shall file certificates of insurance with original endorsements evidencing coverage in compliance with this contract and in a form acceptable to City. The certificate shall be on the City's standard proof of insurance form.

(b) Contractor shall provide to City, on request, a complete copy, including all endorsements and riders, of any insurance policy.

(c) During the term of this agreement, Contractor shall maintain current valid proof of insurance coverage, with City at all times. Proof of renewals shall be filed prior to expiration of any required coverage and shall be provided on the City's standard proof of insurance form.

(d) Failure to submit any required evidences of insurance within the required time period shall be cause for termination for default, and shall be cause for forfeiture of this bidder's bid security, if applicable.

(e) In the event Contractor does not maintain current, valid evidence of insurance on file with City, City may, at its option, withhold payment of any moneys

owed to Contractor, or which it subsequently owes to Contractor, until proper proof is filed.

(5) All insurance coverages shall be provided by insurers with a rating of B+; VII, or better in the most recent edition of Best's Key Rating Guide, Property-Casualty Edition.

(6) Each insurance policy shall be endorsed to state that coverage shall not be suspended, voided or canceled and shall not be reduced in coverage or limits except after 45 days prior written notice provided to the City. Upon prior request of the carrier, the notice period may be reduced to 10 days in the event of non-payment of premium.

(7) All liability coverages shall name the City, its City Council and every officer, agent and employees of the City as additional insured with respect to work under this bid or any subsequent contract.

(8) Contractor's insurance and any insurance provided in compliance with these specifications, shall be primary with respect to any insurance or self-insurance programs covering the City, its City Council and any officer, agent or employee of City.

(9) Where available, the insurer shall agree to waive all rights of subrogation against the City, its City Council and every officer, agent and employee of City.

(10) Any deductibles or self-insured retentions shall be declared to and must be approved by City. At the option of the City, either the insurer shall reduce or eliminate the deductibles or self insured retentions as respects the City, or the Contractor shall procure a bond guaranteeing payment of losses and expenses.

(11) In the event that Contractor does not provide continuous insurance coverage, the City shall have the right, but not the obligation, to obtain the required insurance coverage at Contractor's cost, and the City may deduct all such costs from moneys the City owes to the Contractor or from moneys which it subsequently owes the Contractor.

**3-14 DISPUTE RESOLUTION MEETINGS** - In the event of any damage or injury caused by Contractor or its subcontractors in the performance of the Agreement, the contractor shall attend dispute resolution meetings with the City and interested parties as required by City.

REV. 4-22-03

## **PART 4**

### **PROSECUTION AND PROGRESS OF THE WORK**

**4-01 WORK SCHEDULE** - As soon as notified of the award of the contract, the Contractor shall prepare and submit to the City Engineer a work schedule for accomplishing the work. Said schedule must show the dates of the expected start and completion of the various items of the contract work. During a scheduling conference between the Contractor and the City Engineer, the work schedule will be discussed and modified, if necessary, by mutual agreement. The work schedule must be carefully conceived and adhered to, because it will be the basis for the contents of letters addressed to owners of property adjoining the work area, giving them an understanding of the dates on which their street will be under construction and that they may be prevented from using their driveways during the Contractor's operations. Should it become necessary for the City to delay temporarily the work schedule agreed upon during the scheduling conference, every effort will be made to permit a new work schedule at the time most convenient to the Contractor, thus permitting the project to proceed with the shortest intramural movement of equipment. The Contractor shall notify the City Engineer in all such cases, in order to arrive at a mutually satisfactory schedule.

**4-02 SUBLETTING AND ASSIGNMENT** - The Contractor shall give personal attention to the fulfillment of the contract and shall be in control of the work. The Contractor shall not assign, transfer nor sublet any part of the work without the written consent of the City by the City Engineer and of the Surety of the Contractor's bond, and such consent of Surety, together with a copy of the subcontract, shall be filed with the City Engineer. No assignment, transfer or subletting, even though consented to, shall relieve the Contractor of liability under the contract. Subcontractors shall not be recognized as such, and all persons engaged in the project will be considered as employees of the Contractor, their work being subject to the provisions of the contract and the specifications. Should any subcontractor fail to perform work to the satisfaction of the City Engineer, said subcontractor shall be removed immediately from the project upon request by the City Engineer and shall not again be employed on the work, and the Contractor shall be held liable for the deficient work.

The Contractor shall submit to the City a list with the names, addresses, and telephone numbers of all subcontractors, as a part of, and in addition to the requirements set forth in Paragraph 2-14 hereof.

**4-03 CHARACTER OF WORKMAN** - The Contractor shall employ none but competent foremen, laborers, and mechanics. Any overseer, superintendent, laborer or other person employed on the work by the Contractor who is intemperate, incompetent, troublesome, or otherwise undesirable, or who fails or refuses to perform the work in the manner specified herein, shall be discharged immediately and such person shall not again be employed on the work.

**4-04 AGENTS OR FOREMAN** - In the absence of the Contractor from the site of the project, even if such is only of a temporary duration, the Contractor must provide and leave at the site a competent and reliable agent or foreperson in charge. All notices, communications, orders, or instructions given, sent to, or served upon, such agent or foreperson by the City Engineer shall be considered as having been served upon the Contractor.

**4-05 TEMPORARY STOPPAGE OF CONSTRUCTION ACTIVITIES** - The City Engineer shall have the authority to suspend the contract work wholly or in part, for such a period of time as he may deem necessary, due to unsuitable weather, or to such other conditions as he considers unfavorable for the proper prosecution of the work, or for such time as he may deem necessary due to failure on the part of the Contractor to carry out orders or to perform any of the requirements of the contract. The Contractor shall immediately comply with such an order from the City Engineer and shall not resume operations until so ordered in writing.

**4-06 TIME OF COMPLETION AND LIQUIDATED DAMAGES** - If all the contract work is not completed in all parts and requirements within the time specified in the proposal form, the City shall have the right to grant or deny an extension of time for completion, as may seem best to serve the interest of the City. The Contractor shall not be assessed with liquidated damages during any delay in the completion of the work caused by acts of God or of the Public Enemy, acts of the State, fire not due to acts of contractors or subcontractors, floods, epidemics, quarantine, restrictions, strikes, freight embargo or unusually or severe weather, or delays of subcontractors due to such causes, provided that the Contractor shall, within ten (10) days from the beginning of such delay, notify the City, in writing, of the cause of the delay. The City will ascertain the facts and the extent of the delay, and the findings thereon shall be final and conclusive.

**4-07 SUSPENSION OF CONTRACT** - If at any time, in the opinion of the City Council, the Contractor fails to supply an adequate working force, manufactured articles, or material of proper quality, or has failed in any other respect to prosecute the work with the diligence and force specified and intended in and by the terms of the contract, notice thereof in writing will be served upon the Contractor, and should the Contractor neglect or refuse to provide means for a satisfactory compliance with the contract within the time specified in said notice and as directed by the City Engineer, City Council shall have the power to suspend the operation of the contract and discontinue all work or any part thereof. Thereupon, the Contractor shall discontinue such work, or such part thereof as the City may designate, and the City may thereupon, by contract or otherwise, as it may determine, complete the work or such part thereof, and charge the entire expense of so completing the work or any part thereof to the Contractor, and for such completion the City itself or its contractors may take possession of and use, or cause to be used in the completion of the work, or any part thereof, any such materials, implements and tools of every description as may be found at the place of such work. All expense charged under this paragraph shall be deducted and paid for by the City out of any monies then due or to become due the Contractor

under the contract, or any part thereof, and in such accounting the City shall not be held to obtain the lowest figure for the work for completing the contract, or any part thereof, or for insuring its proper completion, but all sums paid therefor shall be charged to the Contractor. In case the expenses so charged are less than a sum which would have been payable under the contract, if the same had been completed by the Contractor, the Contractor shall be entitled to receive the difference, and in case such expense shall exceed the amount payable under the contract, then the Contractor shall pay the amount of the excess to the City, upon completion of the work, without further demand being made therefor. In the determination of the question as to whether or not there has been any such noncompliance with the contract as to warrant the suspension or annulment thereof, the decision of the City Council shall be binding on all parties to the contract.

## PART 5

### CONTROL OF THE WORK

**5-01 AUTHORITY OF THE CITY ENGINEER** - The City Engineer shall decide any and all questions that may arise as to the quality and acceptability of materials furnished and work performed, as to the manner of performance and rate of progress of the work, and any and all questions which may arise as to the interpretation of the plans and specifications. The City Engineer shall likewise decide any and all questions as to the acceptable fulfillment of the contract on the part of the Contractor, and all questions as to claims and compensations. The decision of the City Engineer shall be final and he shall have relative authority to enforce and make effective such decisions and actions as the Contractor fails to carry out promptly.

**5-02 CONFORMITY WITH PLANS AND ALLOWABLE VARIATION** - Finished surfaces shall in all cases conform with the lines, grades, cross-sections and dimensions shown on the plans. Minor deviations from approved plans, whenever required by the exigencies of construction, shall be determined in all cases by the City Engineer and authorized in writing.

**5-03 PROGRESS OF THE WORK** - The Contractor shall begin work on the date agreed upon following the scheduling conference mentioned in Paragraph 4-01 hereof, and shall diligently prosecute the same to completion before the expiration of the time limit appearing in the specifications and in the proposal form.

**5-04 SAMPLES** - The Contractor shall furnish all products and materials required to complete the work. All materials and products must be of the specified quality and fully equal to samples, when samples are required. Whenever required, the Contractor shall submit to the City Engineer for test, and free of charge, samples of any one of the materials or products proposed to be used in the work. Said samples shall be delivered by the Contractor to the place within the City designated by the City Engineer. Rejected material must be immediately removed from the work by the Contractor and shall not again be brought back to the site.

**5-05 TRADE NAMES AND ALTERNATIVES** - For convenience in designation on the plans or in the specifications, certain equipment or articles or materials to be incorporated in the work may be designated under a trade name or the name of a manufacturer and his catalog information. The use of an alternative equipment or an article or equipment which is of equal quality and of the required characteristics for the purpose intended will be permitted, subject to the approval of the City Engineer, in accordance with the following requirements.

The burden of proof as to the comparative quality and suitability of alternative equipment or articles or materials shall be upon the Contractor and he shall furnish, at his own expense, all information necessary or related thereto as required by the City Engineer. The City Engineer shall be the sole judge as to the comparative quality and

suitability of alternative equipment or articles or materials and his decision shall be final. All requests for substitution shall be submitted seven (7) days in advance of bid opening to permit, if the request is approved, an addendum to be issued to all bidders.

**5-06 PROTECTION OF THE WORK** - The Contractor shall continuously maintain adequate protection of all work from damage, and the City will not be held responsible for the care or protection of any material, equipment, or parts of work, except as expressly provided for in the specifications.

**5-07 ACCESS TO RESIDENTS DRIVEWAYS** - The Contractor shall notify residents of property adjoining the location of the work, sufficiently in advance of construction, as of the date when such construction work will start. In case of work requiring excavation of the roadway which may interfere with the use by residents of their driveways, suitable provisions shall be made by the Contractor to make it possible for residents to gain access to their driveways until such time as the exigencies of construction may demand a temporary blocking of said driveways. Efforts shall be made by the Contractor to minimize the duration of said blocking and to notify the residents of this need well in advance, thus allowing them to make suitable arrangements to keep their automobiles elsewhere.

**5-08 CONFLICT OF TERMS** - The notice to bidders, proposal, plans, specifications, and Standard Contractual Requirements are essential parts of the contract for a given project. These documents, together with the necessary bonds and bidder's guarantee, constitute the contract as defined herein and a requirement included in one document shall be as binding as though included in all, as they are intended to be cooperative and to provide a description of the work to be done. Should there be any conflict or discrepancy between terms used, then the specifications shall govern over the plans, and change orders and supplemental agreements shall govern over any other contract document.

Special specifications of other agencies, engineering societies or industrial associations and Standard Drawings of the City or of other agencies referred to in the specifications or on the plans shall also be considered as essential parts of the contract. Where a given specification is incorporated by reference, said reference shall apply to the latest modification, unless otherwise shown on the plans or in the specifications. Whenever an object, thing, or work of any kind is indicated only on either the plans or in the specifications, it shall be deemed that the intent was to show said item in both places, and the work shall be done in the place where it is shown. In case of doubt about the meaning of any contracting clause the interpretation shall be made by the City Engineer and shall be so accepted by the Contractor.

**5-09 INTERPRETATION OF PLANS AND SPECIFICATIONS** - Should it appear that the work to be done, or any matter relative thereto, is not sufficiently detailed or explained on the plans or in the specifications, the Contractor shall request the City Engineer for such further explanation as may be necessary, and shall conform to such explanation or interpretation as part of the contract, so far as may be consistent with the intent of the original specifications. In the event of doubt or question relative to the true

meaning of the specifications, reference shall be made to the City Council, whose decision thereon shall be final.

**5-10 ALTERATIONS, INCREASES AND DECREASES OF WORK TO BE DONE**

- The City reserves the right to increase or decrease the quantity of any item or portion of the work described on the plans, the specifications, or the proposal form or to omit portions of the work so described as may be deemed necessary or expedient by the City Engineer and the Contractor shall agree not to claim or bring suit for damages, whether for loss of profits or otherwise, on account of any decrease or omission of any kind of work to be done. By mutual consent of the parties signatory to the contract, alterations, modifications or deviations from the type of work described on the plans, specifications, or on the proposal form, may be made without in any way making the contract void. The price to be paid by the City to the Contractor for such altered or modified work shall be agreed upon in writing, endorsed upon the original contract and signed by the proper parties to said contract.

Whenever, during the progress of the work, such changes or modifications are deemed necessary by the City Engineer and agreed upon, as aforesaid, said deviations shall be considered and treated as though originally contracted for, and shall be subject to all the terms, conditions and provisions of the original contract.

**5-11 CHANGE ORDERS** - If for any reason it may become desirable during the course of the Work to change the alignment, dimensions or design of the Work, the City reserves the right to issue change orders in writing to give effect to such changes as may be necessary or desirable. The changes may or may not result in a change in the amount of Work. When the Contractor considers that any change order in writing by the City involves extra work, the Contractor shall immediately notify the City in writing as to when and where extra work is to be performed and shall make claim for compensation therefor each month not later than the first day of the month following that in which the work claimed as extra work was performed. If the changes do, in the opinion of the City, change the amount of Work, the Contract Price shall be adjusted as "extra work", pursuant to Section 6-01.

New and unforeseen work will be classed as extra work only when said work is not covered and cannot be paid for under any of the various items or combination of items for which a bid price appears on the proposal form. The Contractor shall not do any extra work except upon written order from the City Engineer. Compensation for such extra work shall be previously agreed upon in writing between the Contractor and the City Engineer.

**5-12 LINES AND GRADES** - Except when, as per orders from the City Engineer, minor changes in the work are to be made by the Contractor, all work shall, during its progress and upon completion, conform to the lines, grades and elevations shown on the plans. All distances and measurements are given thereon and will be made in a horizontal plane. Three consecutive points shown on the same rate of slope must be used in common in order to detect any variation from a straight line, and in case any

such discrepancy exists, it must be reported to the City Engineer. Failure to make this report shall make the Contractor responsible for any error in the finished work.

**5-13 GRADE STAKES** - The Contractor shall give at least twenty-four (24) hours notice in writing prior to requiring the services of the City Engineer for laying out any portion of the work, and shall dig all holes necessary for line and grade stakes. The Contractor shall preserve all stakes set for the lines, grades or measurements of the work in their proper place until authorized to remove them by the City Engineer. Any expense incurred in replacing said stakes as the Contractor may have failed to preserve shall be borne by the Contractor.

**5-14 PROTECTION OF SURVEY MONUMENT** - All survey monuments existing along the portions of any street where work is to be done shall be carefully protected and preserved by the Contractor. Any displacement or damage to said monuments resulting from carelessness in spotting their location during the progress of the work or from negligent use of equipment in their vicinity shall be corrected by the Contractor at the Contractor's expense.

**5-15 PUBLIC UTILITIES** - In case it should be necessary to remove the property of a public utility or franchise, such owner will, upon proper application by the Contractor, be notified by the City Engineer to move such property within a reasonable time and the Contractor shall not interfere with said property until after the expiration of the time specified. The right is reserved to the owners of public utilities or franchises to enter upon the streets for the purpose of making repairs or changes in their property which may be necessary as a result of the work. Employees of the City shall likewise have the privilege of entering upon the streets for the purpose of making any necessary repairs or replacements.

**5-16 UNIDENTIFIED EXISTING UTILITIES** - The City shall be responsible for the timely removal, relocation or protection of existing main or trunk line utility facilities located on the site, if such utilities are not identified by the City in the plans and specifications made a part of the invitation for bids. The Contractor will be compensated by the City for the costs of locating repairing damage not due to failure of the Contractor to exercise reasonable care, and removing or relocating such utility facilities not indicated in the plans and specifications, with reasonable accuracy, and for equipment on the project necessarily idled during such work.

The Contractor shall not be assessed for liquidated damages for delay in completion of the project, when such delay was caused by failure of the City or owner of the utility to provide for removal or location of such utility facilities. This shall not be deemed to require the City to indicate the presence of existing service laterals or appurtenances whenever the presence of such utilities on the site of the project can be inferred from the presence of other visible facilities, such as buildings, meter and junction boxes on or adjacent to the side of the construction; provided, however, nothing herein shall relieve the City from identifying main or trunk lines in the plans and specifications. If the Contractor performing services required under the contract discovers utility facilities not identified by the City in the contract plan and specifications, the Contractor shall

immediately notify the City and the utility in writing. The City, if it is the owner of the public utility shall have the sole discretion to perform repairs or relocation work or permit the contractor to do such repairs or relocation at a reasonable price.

**5-17 REMOVAL OF INTERFERING OBSTRUCTIONS** -The Contractor shall remove and dispose of all debris, abandoned structures, tree roots, and obstructions of any character met during the process of excavation, it being understood that the cost of said removals are made a part of the unit price bid by the Contractor under the item for excavation or removal of existing work.

**5-18 PROCEDURE IN CASE OF DAMAGE TO ADJOINING WORK** - Any portions of adjoining curb, gutter, sidewalk or any other City improvements damaged by the Contractor during the course of construction shall be replaced by the Contractor at the Contractor's expense, free of all charges to the City. The cost of additional replacement of curb, gutter or sidewalk in excess of the estimated quantities shown in the proposal form and specifications, and found necessary during the process of construction, (but not due to damage resulting from carelessness on the part of the Contractor during operations), shall be paid to the Contractor at the unit prices submitted in the bid.

**5-19 AVOIDANCE OF PATCHWORK APPEARANCE** - New PCC work shall conform in grade, finish and color to the adjoining portions. Any sections of said work having a patchwork appearance will be rejected by the City Engineer and the Contractor shall replace them at the Contractor's expense. To insure a neat break line between existing and new portions of PCC work, the Contractor will be required to use a concrete cutting saw of a type approved by the City Engineer. The cost of saw cutting shall be included by the Contractor in the unit prices bid for removal of existing work. Likewise, whenever adjoining PCC work is damaged during the process of new construction, the damaged portions shall be removed in such a way that a neat, straight joint is provided between the new portions and existing work.

**5-20 CARE OF GUTTERS ADJACENT TO AREAS TO BE PAVED** - During the process of resurfacing the roadways or construction of new pavement, the Contractor shall exercise particular care to remove all excess resurfacing material which may be deposited upon the PCC gutters. Whenever specifications call for the resurfacing material to overlap the existing gutters the overlapping portions shall not exceed the dimensions shown on the plans and a wavy overlapping line shall be avoided. Any undulation of the overlapping line accidentally resulting from the application of the paving or resurfacing material shall be corrected by the Contractor before the work is accepted by the City Engineer.

**5-21 DEPTH OF THE REQUIRED EXCAVATION** - When the contract work requires excavation and removal of existing pavement and excess of underlying soil, these materials shall be removed to the depth shown on the plans. Whenever the subgrade exposed after the removal of the excess underlying soil is found to be of the desirable kind, excavation need not proceed below the depth specified on the plans. However, if the excavation discloses the fact that there is mud or any other soft material

in the subgrade, said material shall be removed to a minimum depth of six inches (6"), at the discretion of the City Engineer. Backfill of the additional excavated portions shall be made with select material removed from other portions of the work, provided said material is found suitable by the City Engineer. The volume in place of the additional soil excavation will be determined by the field representatives of the City Engineer, and the Contractor will be entitled in this case to extra payment based on the additional number of cubic yards excavated, at the unit price bid under the item for excavation in the proposal form. Should imported material be required for the backfill, the unit cost per cubic yard of said imported material shall be agreed in advance, in writing, between the Contractor and the City Engineer, and extra payment for said material will be made to the Contractor for the actual volume used, as verified in the field by representatives of the City Engineer.

**5-22 SEQUENCE OF THE WORK OF EXCAVATION** - Whenever the contract work calls for excavation of existing pavement and excess soil and for construction of base material, the process of excavation shall be conducted by the Contractor so that, at the end of any working day, the area where excavation is proceeding shall not be more than 300 feet in advance of the area where the untreated rock base over sections already excavated is being laid, unless otherwise indicated in the specifications.

**5-23 AVOIDANCE OF DUST NUISANCE** - During the process of breaking, excavating and removing any material from the site of the project and until completion of the work, the Contractor shall take every precaution to avoid the nuisance of unnecessary dust by using any measures advocated by the City Engineer.

**5-24 MAINTENANCE OF TRAFFIC AND SAFETY REQUIREMENT** - Any Contractor performing work in a street right-of-way shall conduct operations so as to cause the least possible obstruction and inconvenience to public traffic and safety, and shall take all necessary measures to maintain an adequate traffic flow, to prevent accidents and to protect the site of the work. During construction the Contractor shall, as far as practicable, keep the project free of rubbish and debris and in as clean a condition as possible.

A suitable width of any intersecting street shall be kept in reasonably good condition for traffic, including the necessary provisions for proper drainage. Should the requirements of construction demand closing the full width of an intersection, such closing shall be allowed only after the Contractor has secured permission from the City Engineer and the duration of the closing must be for the minimum length of time possible. After said permission is granted, the Contractor shall make the necessary arrangements to provide temporary crossings, or to reroute traffic away from said intersection and provide and maintain barriers, guards, directional signs, watchpersons, and lights at all detour points, in order to give adequate warning to the public at all times that the streets are under construction and of the dangerous conditions as a result thereof. The Contractor shall also erect and maintain such additional warning and directional signs as may be furnished by the City.

**5-25 BARRIERS, LIGHTS, ETC.** - The above-mentioned barriers, safety lights, warning and regulatory signs, guards, temporary crossovers, and watchpersons shall also be provided and maintained by the Contractor at the Contractor's expense over all portions of the work during construction and until completion. Provisions shall be made by the Contractor to insure operation of the safety lights throughout the evenings without interruption. No safety lights using the inflammable liquids shall be permitted during the progress of the work, and only electric battery operated safety lamps will be approved for this purpose.

**5-26 REMOVAL OF DEFECTIVE OR UNAUTHORIZED WORK** - It is the intent of the specifications that only first class work, materials, and workmanship will be acceptable. All work which is defective in its construction or deficient in any of the requirements of the specifications shall be remedied, or removed and replaced by the Contractor in an acceptable manner, and no compensation will be allowed for such correction. Any work done beyond the lines shown on the plans or established by the City Engineer, or any extra work done without written authority will be considered as unauthorized and will not be paid for. Upon failure on the part of the Contractor to comply forthwith with any order of the City Engineer made under the provisions of this paragraph, the City Engineer shall have authority to cause defective work to be remedied or removed and replaced, and unauthorized work to be removed, and to deduct the costs thereof from any monies due or to become due the Contractor. If the work is found to be in compliance with these specifications, the City Engineer will furnish the Contractor with a certificate to that effect.

**5-27 SUPERVISION** - All manufactured products, materials, and appliances used and installed and all details of the work done shall at all times be subject to the supervision, test, and approval of the City Engineer or his authorized representatives. The City Engineer or his authorized representatives shall have access to the work at all times during construction, and shall be furnished with every reasonable facility for securing full knowledge with regard to the progress, workmanship and character of the materials used or employed in the work.

**5-28 INSPECTORS** - The Contractor shall prosecute work only in the presence of Inspectors appointed by the City Engineer and any work done in the absence of said Inspectors will be subject to rejection. All instructions given to the Contractor by such assistants shall be regarded as having been given directly by the City Engineer. The Contractor shall make a written application for an Inspector at least twenty-four (24) hours before his services are required on the work. Whenever the cost of an improvement or the cost of any portion thereof is defrayed from the Gas Tax Funds allocated to the City by the County of Los Angeles, or by the State of California, Inspectors appointed by the State or County shall likewise be given full access to the site of the work in order that they may perform their inspection duties efficiently and without interference. The inspection of the work shall not relieve the Contractor of any of his obligations to fulfill the contract as prescribed. Defective work shall be made good and unsuitable materials rejected, notwithstanding the fact that such defective work and unsuitable materials may have been previously overlooked by the Inspectors and accepted or estimated for payment.

**5-29 FINAL CLEANING UP** - Upon completion of the project and before making application to the City Engineer for acceptance of the work, the Contractor shall clean all the streets and grounds occupied by him in connection with the project, of all rubbish, debris, excess material, temporary structures and equipment, leaving the entire site of the work in a neat presentable condition.

**5-30 LOSS OR DAMAGE** - Any loss or damage arising from any omission or act of the Contractor or any agent or person employed by him or by any action which had not been authorized in the provisions of the specifications, shall be sustained by the Contractor.

## PART 6

### MEASUREMENT AND PAYMENT

**6-01 EXTRA WORK** - Extra work as hereinbefore defined, when ordered and accepted, shall be paid for under a written work order in accordance with the terms therein provided. Payment for extra work will be made at the unit price or lump sum previously agreed upon between the Contractor and prepared by the City Engineer. All extra work shall be adjusted daily upon report sheets prepared by the City Engineer, furnished to the Contractor, and signed by both parties, and said daily reports shall be considered thereafter the true record of extra work done.

**6-02 PAYMENTS** - Monthly payments will be made to the Contractor in amounts equal to ninety percent (90%) of the value of all work done during the preceding calendar month, calculated at the unit price bid by the Contractor for the work and on the basis of the percentage of work performed, as estimated by the representative of the City Engineer, it being understood that the sums thus figured to be due the Contractor will become payable thirty (30) days after the approval and acceptance of said estimate by the City Engineer. The Contractor shall submit an invoice for all payments requested. No such estimate of work done or payment to be made shall be required when, in the judgment of the City Engineer, the work is not proceeding in accordance with the provisions of the contract, or when the total value of the work done since the beginning of the project or since the preceding monthly payment is estimated to amount to less than three hundred (\$300.00) dollars.

After completion of the project, the City Engineer will make a final inspection of its site and, if the work is found satisfactory, he will recommend the official approval of the contract work. The City Engineer will also make a final estimate of the actual amount of work done on each item appearing on the proposal form, including extra work, if any, and of the value of such work, and the City will pay the entire sum so found to be due after deducting therefrom all previous payments and ten percent (10%) to be retained. All previous partial estimates shall be subject to correction in the final estimate and payment. The ten percent (10%) retained shall not be due and payable until the Notice of Completion of the project has been filed by the City Clerk with the Los Angeles County Recorder and until after the expiration of thirty-five (35) days after the date of the official approval of the work by the City Council.

In accordance with Government Code Section 4590, the Contractor will be paid the amount of any funds retained by the City, if the Contractor so requests in writing, and the Contractor provides to the Director of Finance Administration a bank or savings and loan certificate of deposit or a security as described in Government Code Section 16430 in the amount equivalent to the amount withheld as determined by the Director of Finance Administration. In lieu of providing such securities to the Director of Finance Administration, the Contractor may deposit such security with a state or federally chartered bank as an escrow agent, said escrow agreement to be satisfactory to the City Attorney. The escrow shall provide that payment of the funds shall not be made to the Contractor until satisfactory completion of the contract as provided in this Section above and shall include the satisfaction of any Stop Notices filed as provided by law and the satisfaction by the Contractor assessed against the Contractor as provided for herein. Any such security shall be provided by the Contractor at the sole expense of the Contractor and the Contractor shall be the beneficial owner of any securities substituted for moneys withheld and shall receive any interest therein. To cover the expenses of the City in processing any request by Contractor for payment of funds retained pursuant to this subsection, Contractor shall pay City the amount of One Hundred (\$100.00) Dollars for processing the first application for withdrawal of funds retained and the amount of Fifty (\$50.00) Dollars for each additional withdrawal of funds retained.

It shall be mutually agreed between the parties to the contract that no certificate given, with the exception of the certificate of final payment, shall be conclusive evidence of the faithful performance of the contract, either in whole or in part, and that no payment shall be construed to be in acceptance of any defective work or improper materials.

CITY OF BEVERLY HILLS

REV 01-22-82  
REV 12-10-86  
REV 08-19-91  
REV 04-22-03

STDCREQ

BIDDER'S BOND

(Public Contract)

KNOW ALL MEN BY THESE PRESENTS: That

as Principal (herein called "Principal") and

as surety (herein called "Surety") are held and firmly bound unto the CITY OF BEVERLY HILLS, a municipal corporation of the State of California (herein called "Obligee"), in just and full sum of ten per cent (10%) of the total amount of the bid of Principal for the herein described work of improvement,

lawful money of the United States of America, for the payment of which, well and truly to be made, we hereby bind ourselves and our, and each of our, heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THE ABOVE OBLIGATION IS SUCH, That

WHEREAS, Principal is bidding, or is about to bid, for the following described work of improvement, all in accordance with the Notice to Bidders, Proposal form, Improvement Map, Specifications, and Standard Contractual Requirements of Obligee therefor: **FY15-16 STREET AND ALLEY IMPROVEMENTS**

NOW, THEREFORE, if Obligee shall make an award to Principal for said work of improvement according to the terms of such bid, and Principal shall duly execute, or cause to be executed, and delivered to Obligee the Contract, bonds, and evidence of insurance coverage as, and within the time, required by the Standard Contractual Requirements, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

No extension of time granted to the Principal and no change or alteration in any of the terms of the bid or the bid requirements, whether made after notice or not, shall release or otherwise affect the obligations of the Surety hereunder, and the Surety waives notice of any such extension, change, or alteration. The Surety, by the execution of this bond, represents and warrants that this bond has also been duly executed by the Principal with proper authority, and the Surety hereby waives any defense which it might have by reason of any failure of the Principal to execute or properly execute this bond.

In the event suit is brought upon this bond by the Obligee and judgement is recovered by the Obligee, court costs, including reasonable attorney's fees, shall be an additional obligation of this bond for which Principal and Surety shall be liable.

Signed and sealed the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
\_\_\_\_\_  
PRINCIPAL

\_\_\_\_\_  
\_\_\_\_\_  
SURETY

APPROVED AS TO FORM:  
City Attorney

NOTE TO SURETY COMPANY: The following form of acknowledgement should be used. If any other form of acknowledgement is used, there must be submitted a certified copy of unrevoked resolution of authority for the attorney-in-fact.

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

\_\_\_\_\_ 20\_\_\_\_.

(SURETY CO. ATTORNEY-IN-FACT)

STATE OF CALIFORNIA: COUNTY OF LOS ANGELES: SS.

On \_\_\_\_\_, before me, the undersigned, a Notary Public in and for said County and State, personally appeared \_\_\_\_\_, known to me to be the duly authorized attorney-in-fact of the corporate surety named in the within Instrument, known to me to be authorized to execute said Instrument on behalf of said corporation, known to me to be the person whose name is subscribed to said Instrument as the attorney-in-fact of said corporation, and acknowledged to me that he (she) subscribed the name of said corporation thereto as surety, and his (her) own name as attorney-in-fact and that said corporation executed the same.

WITNESS my hand and official seal \_\_\_\_\_

(Seal)

Notary Public on and for said County and State

**EXHIBIT "A"**



**AGREEMENT**

THIS AGREEMENT, made and entered into this \_\_\_\_ day of \_\_\_\_\_, **2016**, by and between the CITY OF BEVERLY HILLS, a municipal corporation, hereinafter referred to as "City", and

Company  
Address  
Address

hereinafter referred to as "Contractor";

WITNESSETH

In this consideration of their covenants the parties hereto agree as follows:

1. Contractor shall furnish all labor, materials and equipment necessary to perform the following work in the City of Beverly Hills, California, strictly in accordance with the Notice to Bidders, Proposal form, Plans and Specifications for such improvement, Standard Contractual Requirements and inclusive of Addendums, each of which documents are made a part of this Contract as though fully set forth herein:

**FY15-16 STREET AND ALLEY IMPROVEMENTS**

2. In consideration of such work City agrees to pay Contractor and Contractor agrees to accept the sum of \_\_\_\_\_ **Dollars and** \_\_\_\_\_ **Cents (\$\_\_\_\_\_.)** in the manner provided in subject Plans and Specifications and subject to adjustment provided therein.

3. Concurrently with the execution of this Contract, Contractor shall file with the City the bonds and certificates of insurance specified in said Standard Contractual Requirements.

4. This Contract shall not be assigned without the written permission of the City Council.

IN WITNESS WHEREOF, the parties hereto have executed this instrument the day and year first above written.

ATTEST:

CITY OF BEVERLY HILLS,  
A municipal corporation

\_\_\_\_\_  
BYRON POPE, City Clerk

\_\_\_\_\_  
JOHN A. MIRISCH, Mayor

APPROVED AS TO CONTENT:

CONTRACTOR:

\_\_\_\_\_  
MAHDI ALUZRI, City Manager

\_\_\_\_\_  
SHARON L'HEUREUX DRESSEL, Interim Risk Manager

\_\_\_\_\_  
GEORGE CHAVEZ, Assistant City Manager/Director of  
Public Works Services

FUNDS AVAILABLE:

APPROVED AS TO FORM:

\_\_\_\_\_  
DON RHOADS, Director of Administrative Services/Chief  
Financial Officer

\_\_\_\_\_  
LAURENCE S. WIENER, City Attorney

PERFORMANCE BOND

(Public Contract)

KNOW ALL MEN BY THESE PRESENTS: That (**contractor**)

as Principal (herein called "Principal") and

as surety (herein called "Surety") are held and firmly bound unto the CITY OF BEVERLY HILLS, a municipal corporation of the State of California (herein called "Obligee"), in just and full sum \_\_\_\_\_ **Dollars and** \_\_\_\_\_ **Cents (\$\_\_\_\_\_.)** lawful money of the United States of America, (said sum being equal to 100% of the estimated amount payable by the terms of the hereinafter described Contract) for the payment of which, well and truly to be made, we hereby bind ourselves, and our, and each of our, heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THE ABOVE OBLIGATION IS SUCH, That

WHEREAS, Principal has been awarded a Contract for the following described work of improvement and is required by Obligee to give this bond in connection with the execution of the written Contract therefor: **FY15-16 STREET AND ALLEY IMPROVEMENTS**

NOW, THEREFORE, if Principal shall well and truly do and perform each and all of the covenants, conditions, and agreements of said Contract on the Principal's part to be done and performed, and any and all alterations thereof made as therein provided, at the time and in the manner therein specified, and shall indemnify and save harmless the Obligee, its officers, agents, and employees, as therein stipulated, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

No extension of time granted to the Principal and no change or alteration in any of the terms of the Contract or the Contract documents or the work to be performed thereunder, whether made after notice or not, shall release or otherwise affect the obligation of the Surety hereunder, and the Surety waives notice of any such extension, change, or alteration. The Surety, by the execution of this bond, represents and warrants that this bond has also been duly executed by the Principal with proper authority, and the Surety hereby waives any defense which it might have by reason of any failure of the Principal to execute or properly execute this bond.

In the event suit is brought upon this bond by the Obligee and judgment is recovered by the Obligee, court costs, including reasonable attorney's fees, shall be an additional obligation of this bond for which Principal and Surety shall be liable.

Signed and sealed the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
\_\_\_\_\_  
PRINCIPAL

\_\_\_\_\_  
\_\_\_\_\_  
SURETY

APPROVED AS TO FORM:  
City Attorney

NOTE TO SURETY COMPANY: The following form of acknowledgement should be used. If any other form of acknowledgement is used, there must be submitted a certified copy of unrevoked resolution of authority for the attorney-in-fact.

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

\_\_\_\_\_20\_\_\_\_.

**ATTACH APPROPRIATE JURAT**

**EXHIBIT "D"**

CONTRACTOR'S PAYMENT BOND

(Public Contract)

KNOW ALL MEN BY THESE PRESENTS: That **(contractor name)**

as Principal (herein called "Principal") and

as Surety (herein called "Surety") are held and firmly bound unto the CITY OF BEVERLY HILLS, a municipal corporation of the State of California (herein called "Obligee"), in just and full sum of \_\_\_\_\_ **Dollars and** \_\_\_\_\_ **Cents (\$\_\_\_\_\_.)**, lawful money of the United States of America, (said sum being equal to 100% of the estimated amount payable by the terms hereinafter described Contract) for the payment of which, well and truly to be made, we hereby bind ourselves, and our, and each of our, heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THE ABOVE OBLIGATION IS SUCH, That

WHEREAS, Principal has been awarded a Contract for the following described work of improvement and is required by Obligee to give this bond in connection with the execution of the written Contract therefor: **FY15-16 STREET AND ALLEY IMPROVEMENTS**

NOW, THEREFORE, if Principal or his subcontractors shall fail to pay for any materials, provisions, provender or other supplies, or teams, used in, upon, for, or about the performance of the work contracted to be done, or for any work or labor thereon of any kind, or for amounts due under the Unemployment Insurance Act with respect to such work or labor, the surety will pay for the same, in an amount not exceeding the sum specified above, and also in case suit is brought upon this bond, a reasonable attorney's fee to be fixed by the court. This bond shall insure to the benefit of any and all persons entitled to file claims under the Civil Code so as to give a right of action to them or their assigns in any suit brought upon the bond.

No extension of time granted to the Principal and no change or alteration in any of the terms of the Contract or the Contract documents or the work to be performed thereunder, whether made after notice or not, shall release or otherwise affect the obligation of the Surety hereunder, and the Surety waives notice of any such extension, change, or alteration. The Surety, by the execution of this bond, represents and warrants that this bond has also been duly executed by the Principal with proper authority, and the Surety hereby waives any defense which it might have by reason of any failure of the Principal to execute or properly execute this bond.

Signed and sealed the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
\_\_\_\_\_  
PRINCIPAL

\_\_\_\_\_  
\_\_\_\_\_  
SURETY

APPROVED AS TO FORM:  
City Attorney

NOTE TO SURETY COMPANY: The following form of acknowledgement should be used. If any other form of acknowledgement is used, there must be submitted a certified copy of unrevoked resolution of authority for the attorney-in-fact.

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

\_\_\_\_\_ 20\_\_\_\_.

**ATTACH APPROPRIATE JURAT**

**EXHIBIT "E"**

**CERTIFICATE OF INSURANCE**  
**(PUBLIC LIABILITY)**

This is to certify that the following endorsement is part of the policy(ies) described below:

Named Insured (Contractor) \_\_\_\_\_ Companies Affording Coverage  
 A. \_\_\_\_\_

Address \_\_\_\_\_ B. \_\_\_\_\_  
 C. \_\_\_\_\_

Policy Number	Company A,B,C	Coverage	Expiration Date	B.I.	Limits P.D.	Aggregate
		<input type="checkbox"/> Automobile Liability				
		<input type="checkbox"/> General Liability				
		<input type="checkbox"/> Products/Completed Operations				
		<input type="checkbox"/> Blanket Contractual				
		<input type="checkbox"/> Contractor's Protective				
		<input type="checkbox"/> Personal injury				
		<input type="checkbox"/> Other				
		<input type="checkbox"/> Excess Liability				
		<input type="checkbox"/> Workers' Compensation				

It is hereby understood and agreed that the City of Beverly Hills, its City Council and each member thereof and every officer and employee of the City shall be named as a joint and several assureds with respect to claims arising out of the following project: **FY15-16 STREET AND ALLEY IMPROVEMENTS within the City of Beverly Hills, California**

It is further agreed that the following indemnity agreement between the City of Beverly Hills and the named insured is covered under the policy: Contractor agrees to indemnify, hold harmless and defend City, its City Council and each member thereof and every officer and employee of City from any and all liability or financial loss resulting from any suits, claims, losses or actions brought against and from all cost and expenses of litigation brought against City, its City Council and each member thereof and any officer or employee of City which results directly or indirectly from the wrongful or negligent actions of contractor's officers, employees, agents, or others employed by contractor while engaged by contractor in the (performance of this agreement) construction of this project.

It is further agreed that the inclusion of more than one assured shall not operate to increase the limit of the company's liability and that insurer waives any right on contribution with insurance which may be available to City of Beverly Hills.

In the event of cancellation or material change in the above coverage, the company will give 45 days' written notice of cancellation or material change to the certificate holder.

Except to certify that the policy(ies) described above have the above endorsement attached, this certificate or verification of insurance is not an insurance policy and does not amend, extend or alter the coverage afforded by the policies listed herein. Notwithstanding any requirement, term, condition of any contract or other document with respect to which this certification or verification of insurance may be issued or may pertain, the insurance afforded by the policies described herein is subject to all the terms, exclusions and conditions of such policies.

DATE \_\_\_\_\_ BY \_\_\_\_\_  
 \_\_\_\_\_ AUTHORIZED INSURANCE  
 \_\_\_\_\_ REPRESENTATIVE

AGENCY \_\_\_\_\_ TITLE \_\_\_\_\_  
 \_\_\_\_\_ ADDRESS \_\_\_\_\_  
 \_\_\_\_\_

**CERTIFICATE OF INSURANCE**  
(Worker's Compensation)

WHEREAS, the City of Beverly Hills has requires certain insurance to be provided by:

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

NOW, THEREFORE, the undersigned insurance company does hereby certify that it has issued the policy or policies described below to the following named insureds and that the same are in force at this time.

1. This certificate is issued to: City of Beverly Hills, City Hall, 455 North Rexford Drive, Beverly Hills, California.
2. The insureds under such polity or policies are:

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

3. Worker's Compensation Policy or Policies in a form approved by the Insurance Commissioner of California covering all operations of the named insureds, as follows:

<u>POLICY NUMBER</u>	<u>EFFECTIVE DATE</u>	<u>EXPIRATION DATE</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

4. Said policy or policies shall not be canceled, nor shall there be any reduction in coverage or limits of liability, unless and until thirty days written notice thereof has been served upon the City Clerk of the City of Beverly Hills.

\_\_\_\_\_  
\_\_\_\_\_  
By \_\_\_\_\_  
Its Authorized Representative

Approved as to form:

\_\_\_\_\_ 20 \_\_\_\_\_

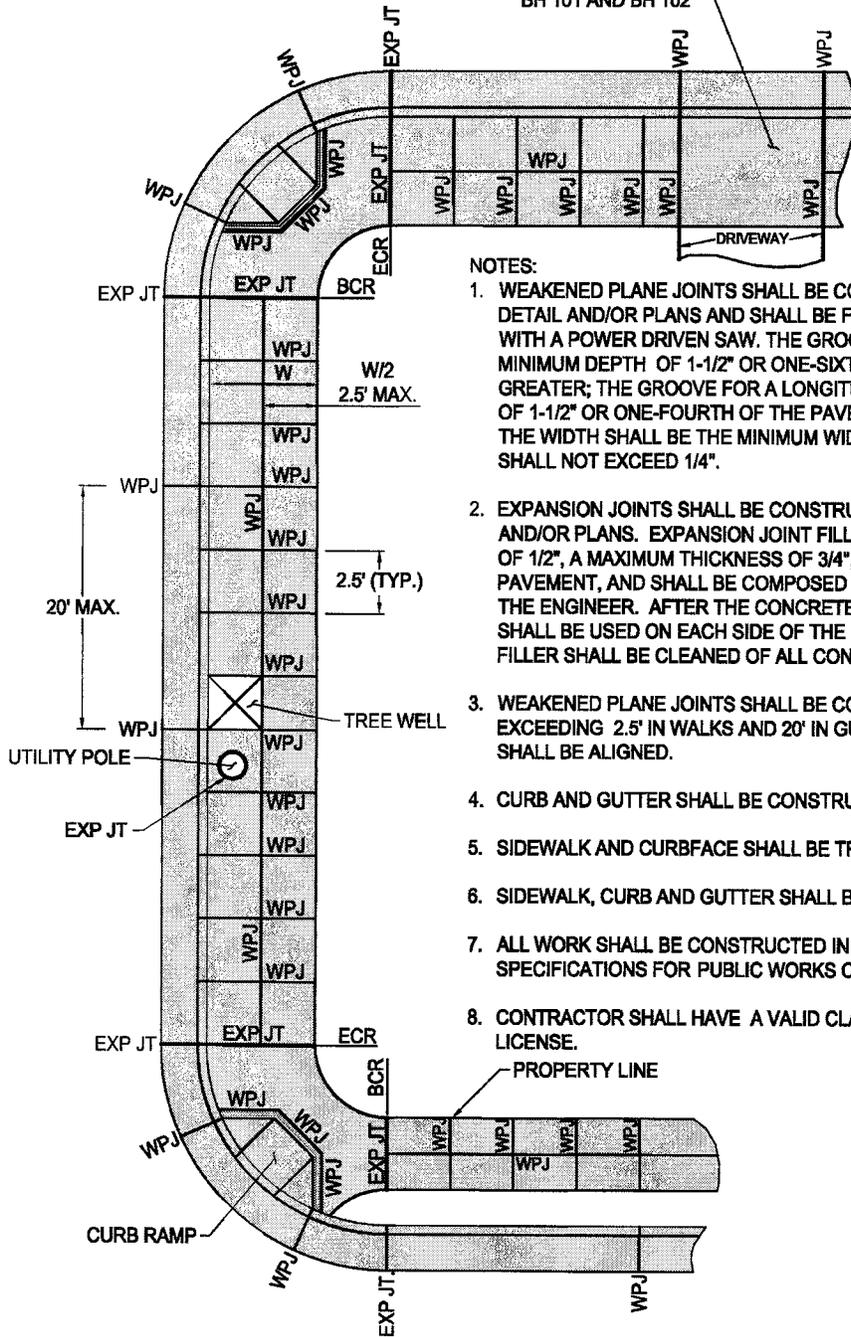
\_\_\_\_\_  
LAURENCE S. WIENER, City Attorney

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

# **APPENDIX A**

## **City of Beverly Hills Standard Drawings**

JOINTS PER STANDARD DRAWINGS  
BH 101 AND BH 102



**ABBREVIATIONS:**

- WPJ - WEAKENED PLANE JOINT
- EXP JT - EXPANSION JOINT
- BCR - BEGINNING OF CURB RETURN
- ECR - END OF CURB RETURN

**NOTES:**

1. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT LOCATIONS SHOWN ON THE DETAIL AND/OR PLANS AND SHALL BE FORMED BY CUTTING A GROOVE IN THE PAVEMENT WITH A POWER DRIVEN SAW. THE GROOVE FOR A TRANSVERSE JOINT SHALL BE CUT TO A MINIMUM DEPTH OF 1-1/2" OR ONE-SIXTH OF THE PAVEMENT THICKNESS, WHICHEVER IS GREATER; THE GROOVE FOR A LONGITUDINAL JOINT SHALL BE CUT TO A MINIMUM DEPTH OF 1-1/2" OR ONE-FOURTH OF THE PAVEMENT THICKNESS, WHICHEVER IS GREATER; AND THE WIDTH SHALL BE THE MINIMUM WIDTH POSSIBLE WITH THE SAW BEING USED, BUT SHALL NOT EXCEED 1/4".
2. EXPANSION JOINTS SHALL BE CONSTRUCTED AT LOCATIONS SHOWN ON THE DETAIL AND/OR PLANS. EXPANSION JOINT FILLER MATERIAL SHALL HAVE A MINIMUM THICKNESS OF 1/2", A MAXIMUM THICKNESS OF 3/4", A DEPTH EQUAL TO THE THICKNESS OF THE PAVEMENT, AND SHALL BE COMPOSED OF MATERIALS AS SPECIFIED OR APPROVED BY THE ENGINEER. AFTER THE CONCRETE HAS BEEN FINISHED, AN EDGER OF 1/4" RADIUS SHALL BE USED ON EACH SIDE OF THE EXPANSION JOINT FILLER. THE EXPANSION JOINT FILLER SHALL BE CLEANED OF ALL CONCRETE MORTAR.
3. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT REGULAR INTERVALS NOT EXCEEDING 2.5' IN WALKS AND 20' IN GUTTERS. JOINTS IN CURB, GUTTER, AND WALK SHALL BE ALIGNED.
4. CURB AND GUTTER SHALL BE CONSTRUCTED SEPARATELY FROM SIDEWALK.
5. SIDEWALK AND CURBFACE SHALL BE TROWELED AND LIGHT BROOM FINISHED.
6. SIDEWALK, CURB AND GUTTER SHALL BE CONSTRUCTED OF CLASS 520-C-2500 PCC.
7. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREENBOOK").
8. CONTRACTOR SHALL HAVE A VALID CLASS "A" OR "C8" CALIFORNIA CONTRACTOR'S LICENSE.

# CURB AND SIDEWALK JOINTS

**REVISIONS**

MARK	DATE	DESCRIPTION



## CITY OF BEVERLY HILLS, CALIFORNIA

DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION  
CIVIL ENGINEERING DIVISION

RECOMMENDED *[Signature]* DATE 7-30-09  
CITY ENGINEER

APPROVED *[Signature]* DATE 7-31-09  
PUBLIC WORKS DIRECTOR

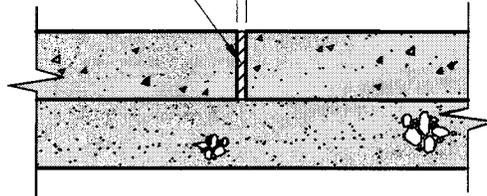
STANDARD DRAWING

**BH 104**

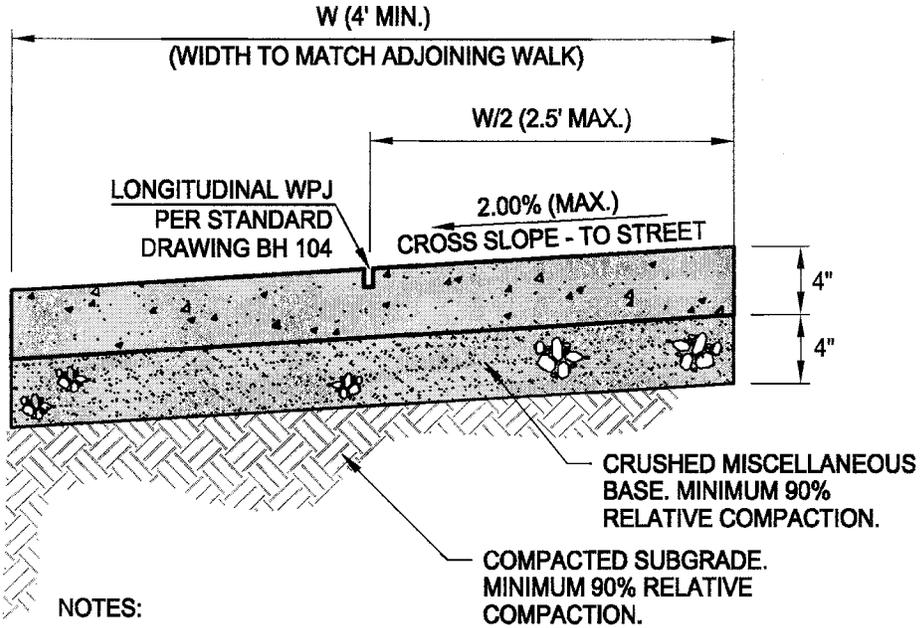
SHEET 1 OF 1

TRANSVERSE EXPANSION  
JOINT PER STANDARD  
DRAWING BH 104

1/2" MIN.  
3/4" MAX.



**EXPANSION JOINT SECTION**

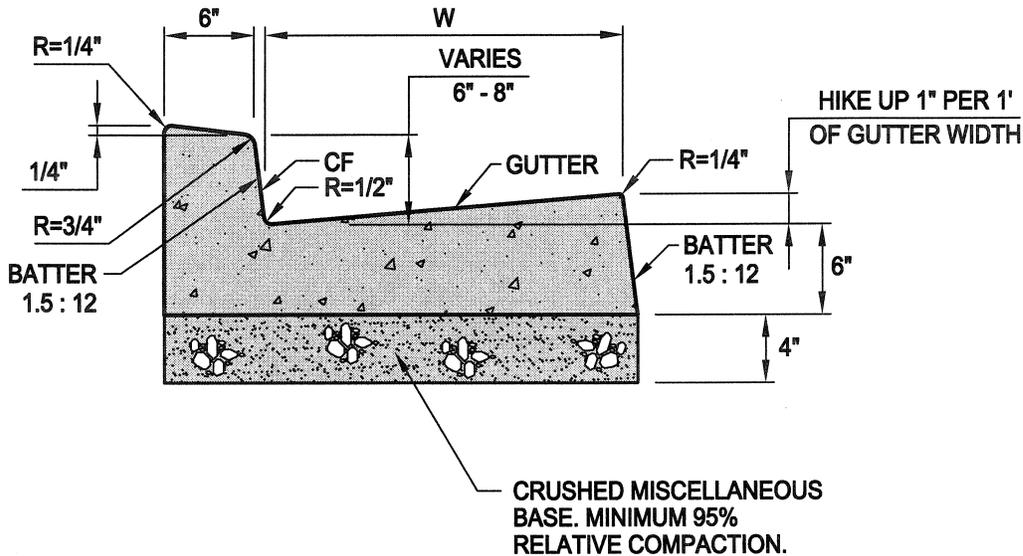


**NOTES:**

1. SIDEWALK SHALL BE CONSTRUCTED OF CLASS 520-C-2500 PCC.
2. SEE BH 104 FOR JOINT LOCATION PLACEMENT.
3. CRUSHED MISCELLANEOUS BASE TO BE APPROVED BY THE CITY ENGINEER.
4. SIDEWALK SHALL BE TROWLED AND LIGHT BROOM FINISHED.
5. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREENBOOK").
6. CONTRACTOR SHALL HAVE A VALID CLASS "A" OR "C8" CALIFORNIA CONTRACTOR'S LICENSE.

## STANDARD SIDEWALK SECTION

REVISIONS				CITY OF BEVERLY HILLS, CALIFORNIA	
MARK	DATE	DESCRIPTION		DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION CIVIL ENGINEERING DIVISION	
			RECOMMENDED <i>Clint Torin</i> <small>CITY ENGINEER</small>	DATE	7-30-09
				APPROVED <i>[Signature]</i> <small>PUBLIC WORKS DIRECTOR</small>	DATE
			STANDARD DRAWING		<b>BH 105</b> SHEET 1 OF 1



**RESIDENTIAL  
INTEGRAL CURB AND GUTTER SECTION**

NOT TO SCALE

**NOTES:**

1. CURB AND GUTTER SHALL BE CONSTRUCTED OF CLASS 520-C-2500 PCC.
2. GUTTER WIDTH, W, SHALL MATCH EXISTING OR 24" MINIMUM, UNLESS OTHERWISE SPECIFIED.
3. AFTER THE CONCRETE HAS BEEN THOROUGHLY TAMPED TO FORCE THE LARGER AGGREGATE INTO THE CONCRETE AND BRING TO THE TOP SUFFICIENT FREE MORTAR FOR FINISHING, THE SURFACE SHALL BE WORKED TO A TRUE AND EVEN GRADE BY MEANS OF A FLOAT, TROWELED WITH A LONG HANDLED TROWEL OR "FRESNO", AND WOOD-FLOAT FINISHED. THE FLOWLINE OF THE GUTTER SHALL BE TROWELED SMOOTH FOR A WIDTH OF 4 INCHES FOR INTEGRAL CURB AND GUTTER. SIDE FORMS SHALL REMAIN IN PLACE FOR AT LEAST 24 HOURS AFTER COMPLETION OF THE GUTTER, BUT MUST BE REMOVED BEFORE THE WORK WILL BE ACCEPTED.
4. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREENBOOK").
5. CONTRACTOR SHALL HAVE A VALID CLASS "A" OR "C8" CALIFORNIA CONTRACTOR'S LICENSE.

**RESIDENTIAL INTEGRAL CURB AND GUTTER DETAIL**

REVISIONS		
MARK	DATE	DESCRIPTION



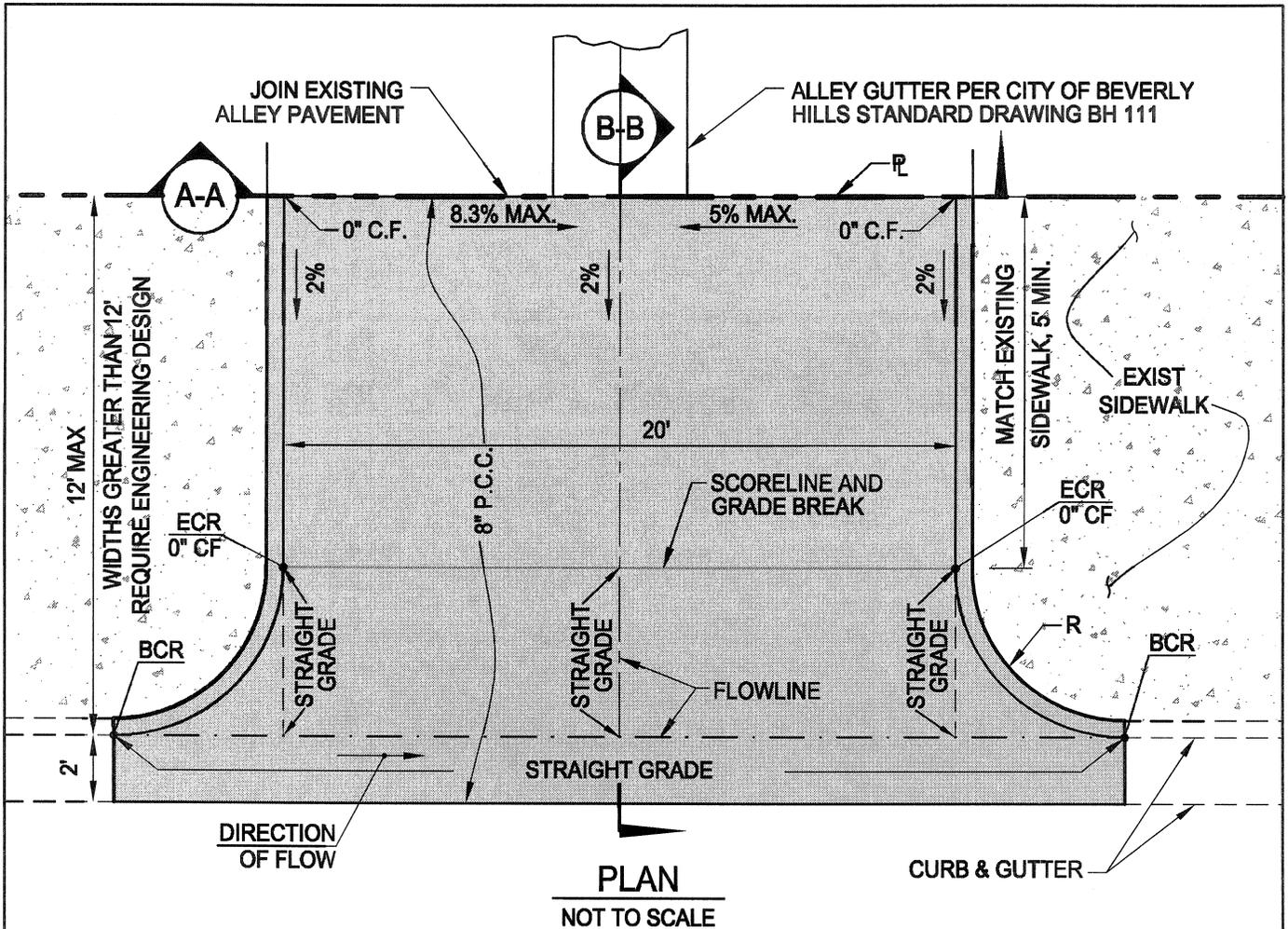
**CITY OF BEVERLY HILLS, CALIFORNIA**  
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION  
CIVIL ENGINEERING DIVISION

RECOMMENDED [Signature] DATE 7-30-09  
CITY ENGINEER

APPROVED [Signature] DATE 7-31-09  
PUBLIC WORKS DIRECTOR

STANDARD DRAWING  
**BH 106**  
SHEET 1 OF 1





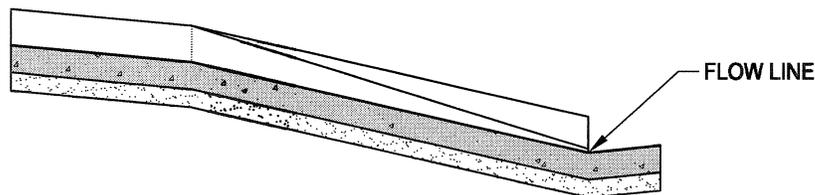
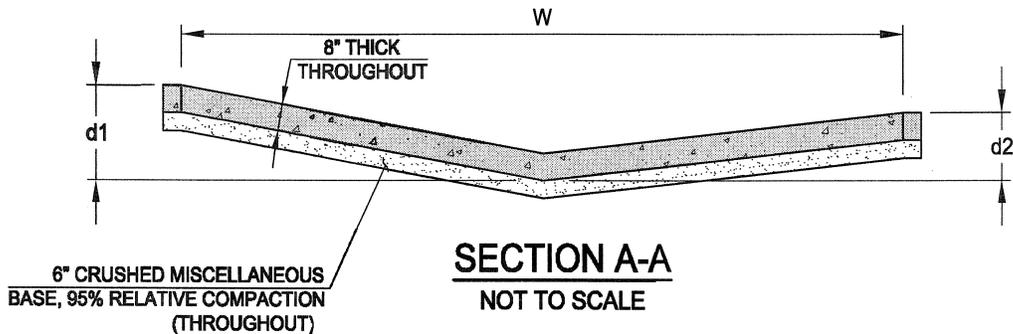
**NOTES:**

1. CURB RETURN RADIUS, R, SHALL BE 5' TYPICAL, UNLESS OTHERWISE SPECIFIED.
2. TOP OF CURB ELEVATIONS SHALL MATCH EXISTING SIDEWALK ELEVATIONS.
3. ALLEY APPROACH WITH A SLOPE EXCEEDING 16.66% SLOPE SHALL REQUIRE A SPECIAL PERMIT FROM THE TRANSPORTATION/ ENGINEERING OFFICIAL.
4. ACTUAL SHAPE AND LOCATION OF ALLEY APPROACH SHALL BE DETERMINED IN THE FIELD BY THE CITY ENGINEER.
5. ALLEY APPROACH AND NEW SIDEWALK WITHIN ALLEY APPROACH SHALL BE A CLASS 520-C-2500 8" THICK MONOLITHIC POUR OVER 6" CRUSHED MISCELLANEOUS BASE AT 95% RELATIVE COMPACTION.
6. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDITION OF STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREENBOOK").
7. CONTRACTOR SHALL HAVE A VALID CLASS "A" OR "C8" CALIFORNIA CONTRACTOR'S LICENSE.

## ALLEY APPROACH DETAIL

REVISIONS				CITY OF BEVERLY HILLS, CALIFORNIA	
MARK	DATE	DESCRIPTION		DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION CIVIL ENGINEERING DIVISION	
				RECOMMENDED <i>Chris Tsou</i> DATE <i>7-30-09</i> <small>CITY ENGINEER</small>	STANDARD DRAWING <b>BH 108</b> SHEET 1 OF 2
				APPROVED <i>[Signature]</i> DATE <i>7-31-09</i> <small>PUBLIC WORKS DIRECTOR</small>	

W	8'	10'	15'	20'	25'	30'
d1, MAX	4"	5"	7.5"	10"	12.5"	15"
d2, MIN	2"	3"	3"	3"	3"	3"

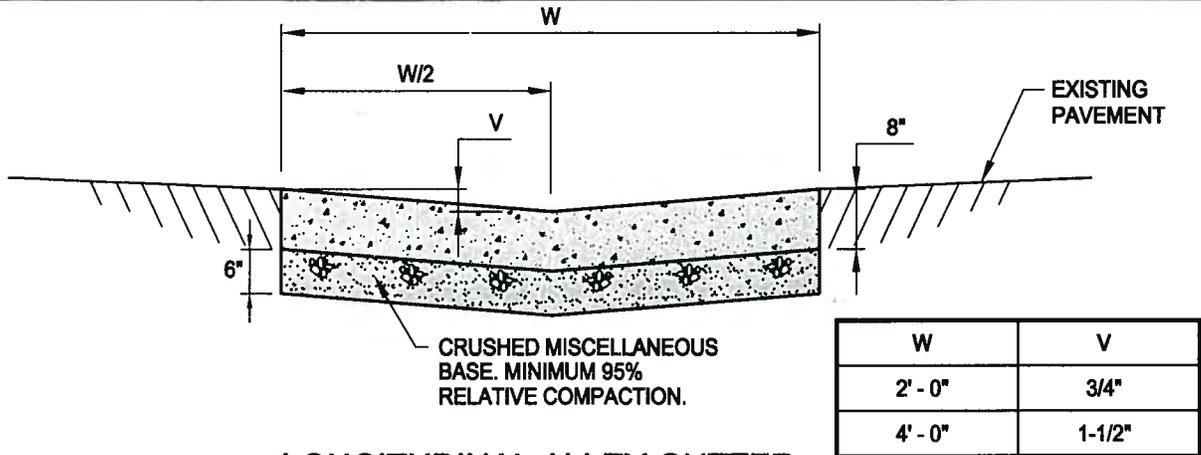


## ALLEY APPROACH DETAIL

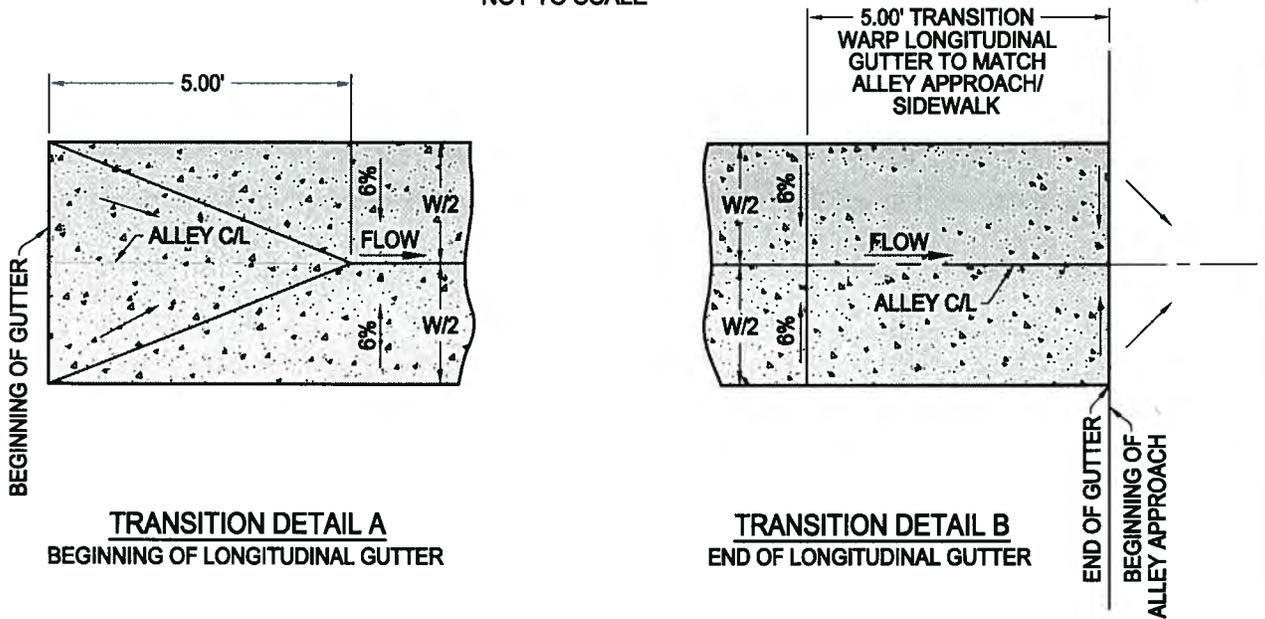
REVISIONS				CITY OF BEVERLY HILLS, CALIFORNIA	
MARK	DATE	DESCRIPTION		DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION CIVIL ENGINEERING DIVISION	

RECOMMENDED	 <small>CITY ENGINEER</small>	DATE	7-30-09
APPROVED	 <small>PUBLIC WORKS DIRECTOR</small>	DATE	7-31-09

STANDARD DRAWING
<b>BH 108</b>
SHEET 2 OF 2



**LONGITUDINAL ALLEY GUTTER**  
NOT TO SCALE



**TRANSITION DETAIL A**  
BEGINNING OF LONGITUDINAL GUTTER

**TRANSITION DETAIL B**  
END OF LONGITUDINAL GUTTER

**NOTES:**

1. LONGITUDINAL ALLEY GUTTER SHALL BE CLASS 520-C-2500 PCC.
2. CONTROL JOINTS SHALL BE PLACED AT 10' INTERVALS FOR FULL LENGTH OF LONGITUDINAL GUTTER.
3. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREENBOOK").
4. CONTRACTOR SHALL HAVE A VALID CLASS "A" OR "C8" CALIFORNIA CONTRACTOR'S LICENSE.

**LONGITUDINAL ALLEY GUTTER DETAIL**

REVISIONS		
MARK	DATE	DESCRIPTION

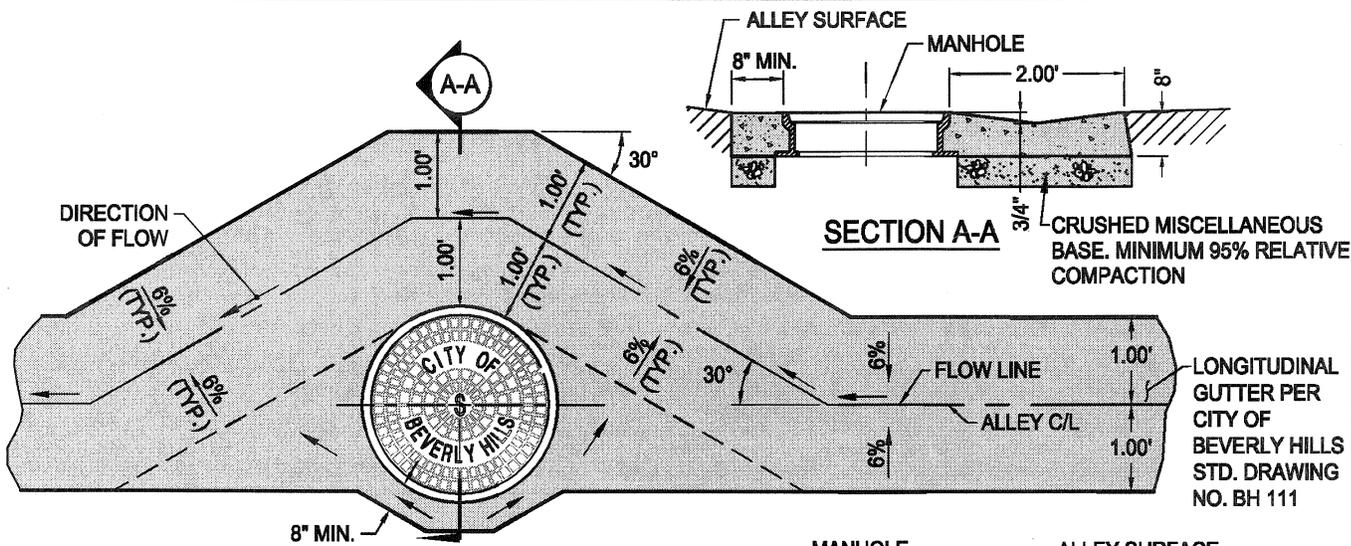


**CITY OF BEVERLY HILLS, CALIFORNIA**

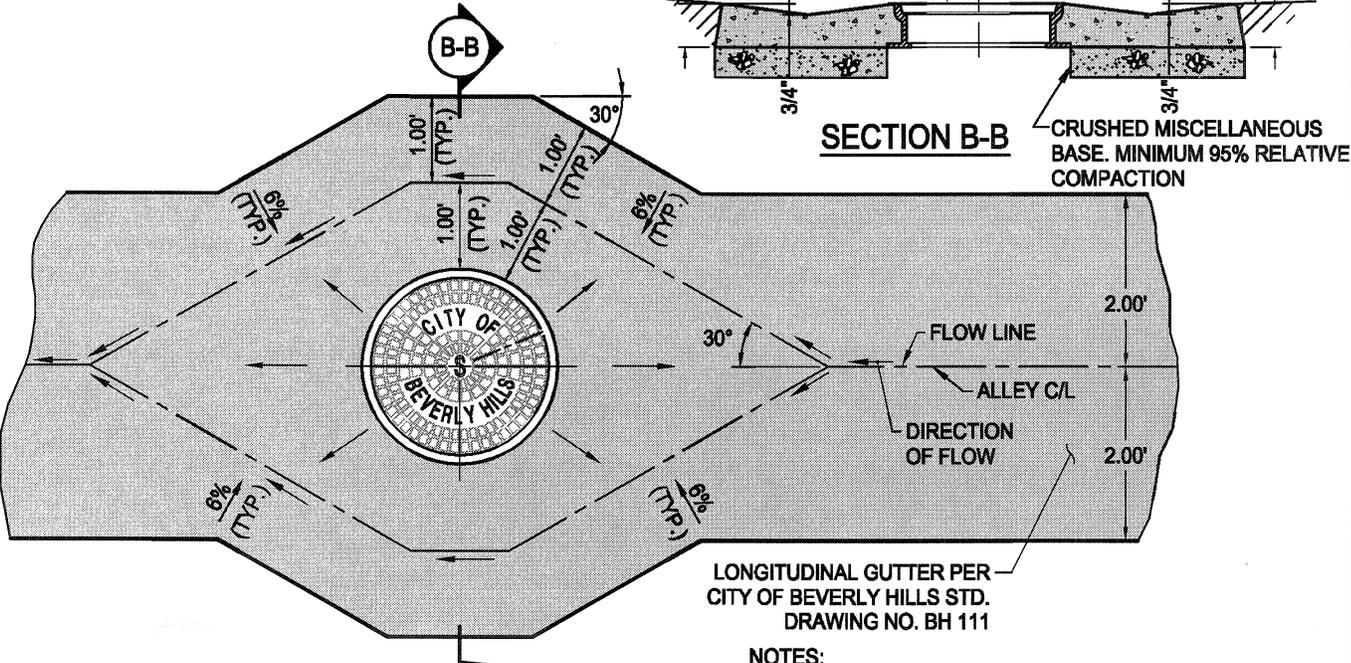
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION  
CIVIL ENGINEERING DIVISION

RECOMMENDED *[Signature]* DATE 11-18-10  
CITY ENGINEER  
APPROVED *[Signature]* DATE 11-18-10  
PUBLIC WORKS DIRECTOR

STANDARD DRAWING  
**BH 111**  
SHEET 1 OF 1



**CASE 1 (2'-0" LONGITUDINAL GUTTER)**



**CASE 2 (4'-0" LONGITUDINAL GUTTER)**

- NOTES:**
1. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREENBOOK").
  2. CONTRACTOR SHALL HAVE A VALID CLASS "A" OR "C8" CALIFORNIA CONTRACTOR'S LICENSE.

# LONGITUDINAL ALLEY GUTTER AT MANHOLE

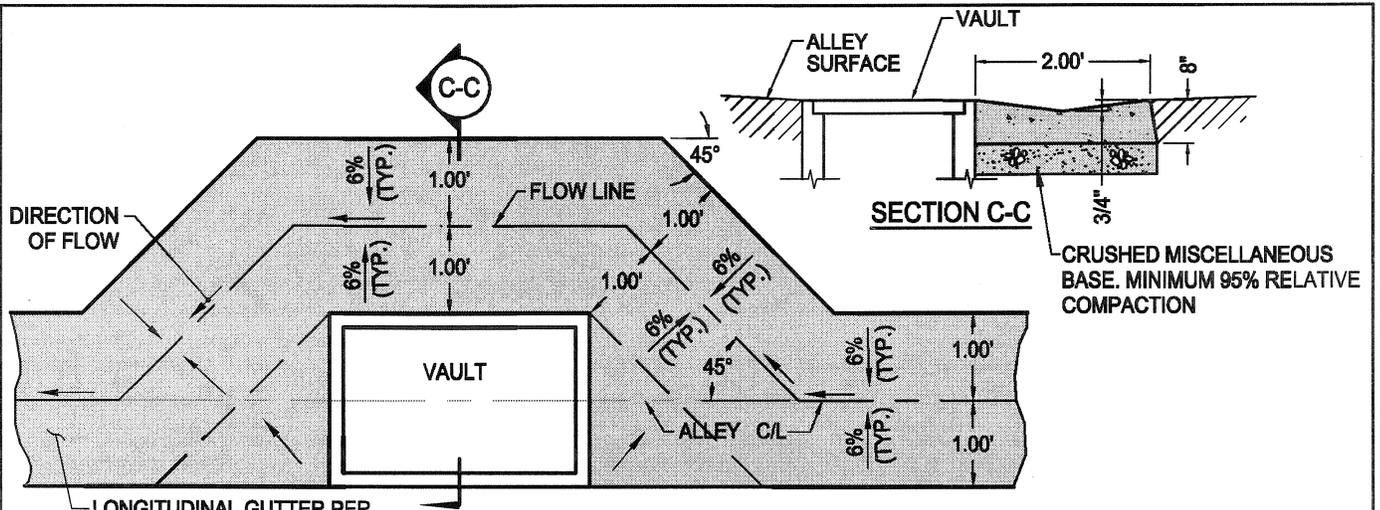
REVISIONS		
MARK	DATE	DESCRIPTION



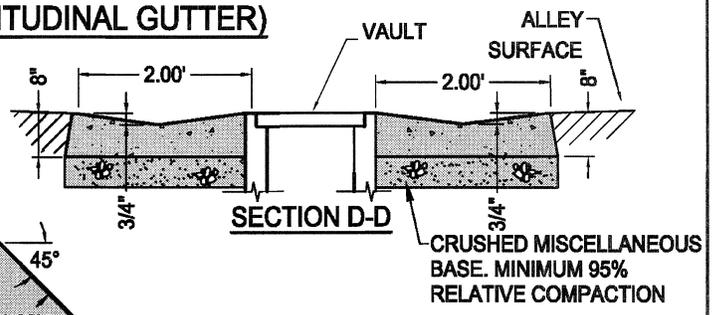
**CITY OF BEVERLY HILLS, CALIFORNIA**  
 DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION  
 CIVIL ENGINEERING DIVISION

RECOMMENDED *[Signature]* DATE *7-30-09*  
 CITY ENGINEER  
 APPROVED *[Signature]* DATE *7-31-09*  
 PUBLIC WORKS DIRECTOR

STANDARD DRAWING  
**BH 112**  
 SHEET 1 OF 2



LONGITUDINAL GUTTER PER CITY OF BEVERLY HILLS STD. DRAWING NO. BH 111  
**CASE 3 (2'-0" LONGITUDINAL GUTTER)**



**CASE 4 (4'-0" LONGITUDINAL GUTTER)**

- NOTES:
1. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREENBOOK").
  2. CONTRACTOR SHALL HAVE A VALID CLASS "A" OR "C8" CALIFORNIA CONTRACTOR'S LICENSE.

# LONGITUDINAL ALLEY GUTTER AT VAULT

REVISIONS		
MARK	DATE	DESCRIPTION

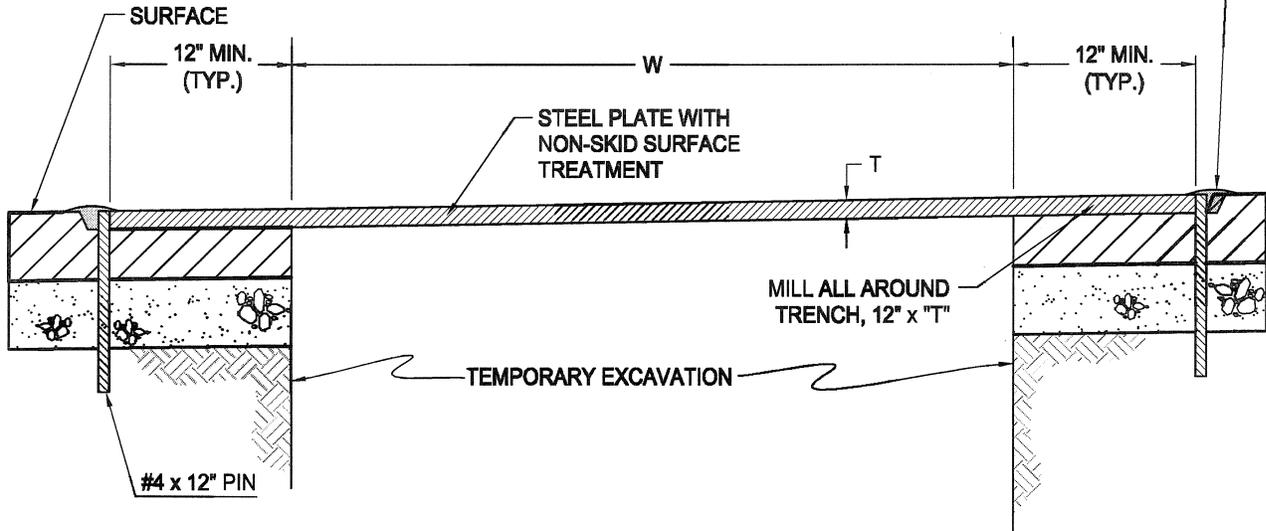


**CITY OF BEVERLY HILLS, CALIFORNIA**  
 DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION  
 CIVIL ENGINEERING DIVISION

RECOMMENDED *Christina* DATE 7-30-09  
 CITY ENGINEER  
 APPROVED *Debra* DATE 7-31-09  
 PUBLIC WORKS DIRECTOR

STANDARD DRAWING  
**BH 112**  
 SHEET 2 OF 2

TEMPORARY PAVING OR COLD-MIX ASPHALT CONCRETE (CUTBACK) PLACED AROUND ALL EDGES OF PLATE AND ROAD SURFACE. USE WEDGES TO PREVENT RATTLING.



"W" TRENCH WIDTH	"T" MINIMUM STEEL PLATE THICKNESS
≤ 3' - 0"	1 INCH
> 3' - 0", UP TO 4' - 0"	1-1/4 INCH

NOTES:

1. ALL STEEL TRENCH PLATES SHALL BE FULLY SUPPORTED AROUND THE PERIMETER TO PREVENT TIPPING.
2. TRENCHES AND EXCAVATIONS SHALL BE ADEQUATELY SHORED OR BRACED TO WITHSTAND HIGHWAY TRAFFIC LOADS.
3. WHEN TWO OR MORE PLATES ARE USED, THE PLATES SHALL BE TACK WELDED AT EACH CORNER OR AS REQUIRED BY THE CITY ENGINEER.
4. ALL TRENCH PLATES SHALL BE PINNED IN EACH CORNER WITH PINS MADE OF #4 REBAR, OR EQUIVALENT DIAMETER STEEL ROD, WITH A MINIMUM LENGTH OF 12"
5. ALL TRENCH PLATING SHALL BE DESIGNED FOR HS20-44 TRUCK LOADING.
6. FOR TRENCHES AND EXCAVATIONS WITH SPANS GREATER THAN FOUR FEET (4'), A STRUCTURAL DESIGN SHALL BE PREPARED BY A REGISTERED CIVIL OR STRUCTURAL ENGINEER AND REVIEWED BY THE CITY.
7. TRENCH PLATES SHALL BE USED WHEN TRENCH WORK CAN NOT BE COMPLETED WITHIN THE SAME WORKING DAY TO MAINTAIN ALL VEHICULAR, BICYCLE AND PEDESTRIAN TRAFFIC FLOW.
8. CONTRACTOR SHALL HAVE A VALID CLASS "A" OR "C8" CALIFORNIA CONTRACTOR'S LICENSE.

## STEEL PLATE FOR OPEN TRENCH DETAIL

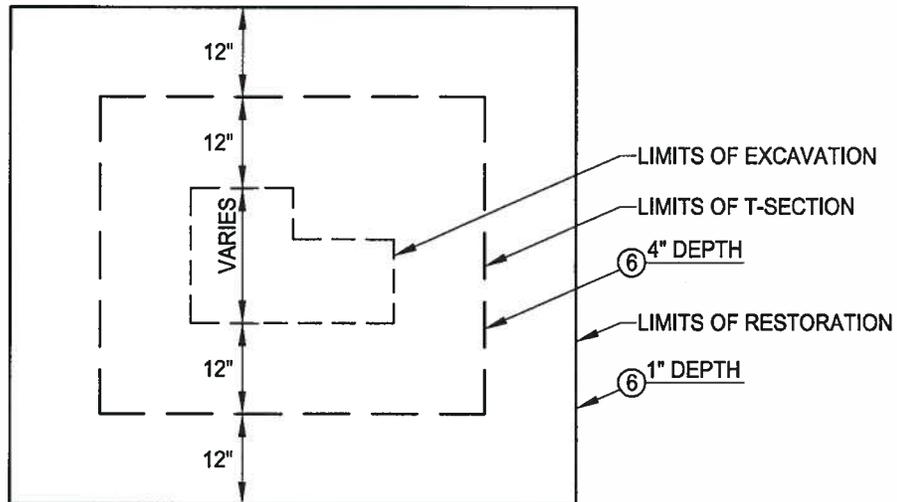
REVISIONS		
MARK	DATE	DESCRIPTION



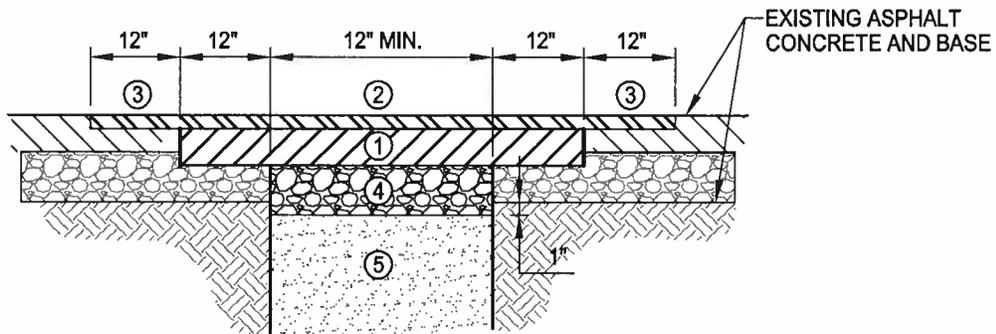
**CITY OF BEVERLY HILLS, CALIFORNIA**  
 DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION  
 CIVIL ENGINEERING DIVISION

RECOMMENDED [Signature] DATE 7-30-09  
CITY ENGINEER  
 APPROVED [Signature] DATE 7-31-09  
PUBLIC WORKS DIRECTOR

STANDARD DRAWING  
**BH 113**  
 SHEET 1 OF 1



**CASE I - PLAN**



**CASE I - EXISTING SECTION: ASPHALT CONCRETE**

- ① CONSTRUCT NEW ASPHALT CONCRETE BASE COURSE, TYPE B, PG 64-10, 1" THICKER THAN THE EXISTING SECTION.
- ② CONSTRUCT NEW ASPHALT CONCRETE WEARING COURSE:

TYPES OF STREETS	DEPTH	ASPHALT CONCRETE
LOCAL RESIDENTIAL STREETS	1"	TYPE D2, PG-64-10
STREETS WITH RUBBERIZED ASPHALT	2" MIN	ARHM-GG PG-64-16
COLLECTOR/MAJOR STREETS	1-1/2"	TYPE C2, PG-64-10

① AND ②: THE TOTAL THICKNESS OF ① + ② SHALL BE 4" MINIMUM FOR LOCAL OR COLLECTOR STREETS AND 6" MINIMUM FOR MAJOR STREETS. ASPHALT CONCRETE LAYERS SHALL BE COMPACTED TO 95% OF MAXIMUM THEORETICAL SPECIFIC GRAVITY.

**PAVEMENT REPLACEMENT SECTION - CASE I**

REVISIONS		
MARK	DATE	DESCRIPTION



**CITY OF BEVERLY HILLS, CALIFORNIA**

DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION  
CIVIL ENGINEERING DIVISION

RECOMMENDED *[Signature]* DATE 11/18/2011  
CITY ENGINEER  
APPROVED *[Signature]* DATE 11-18-11  
PUBLIC WORKS DIRECTOR

STANDARD DRAWING  
**BH 114**  
SHEET 1 OF 4

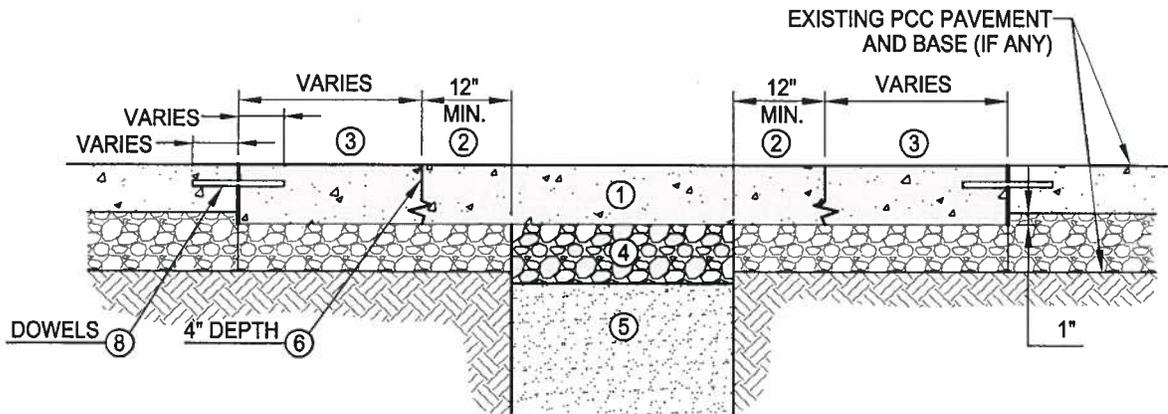
- ③ A. THE LIMITS OF THE RESTORATION SHALL BE A RECTANGULAR AREA EXTENDING A MINIMUM OF 12" BEYOND THE OUTER EDGE OF THE WIDEST PORTION OF THE T-SECTION. THE LIMITS SHALL BE SAWCUT AFTER BACKFILL OF TRENCH IS COMPLETED. THE EXISTING A.C. SHALL BE REMOVED TO A DEPTH EQUAL TO THE THICKNESS OF THE WEARING COURSE. REMOVAL BY COLD MILLING OR PNEUMATIC HAMMER IS ACCEPTABLE. IF THE REMOVALS ARE LESS THAN 5' APART OR LESS THAN 2' FROM A CONCRETE CURB, GUTTER OR CROSS GUTTER, THE RESTORATION SHALL BE CONTINUOUS BETWEEN EXCAVATIONS AND/OR THE EDGE OF THE CONCRETE.
- ④ CONSTRUCT NEW CRUSHED AGGREGATE BASE TO MATCH EXISTING THICKNESS OR 4" THICKNESS, WHICHEVER IS GREATER. COMPACT TO 95% OF RELATIVE DENSITY.
- ⑤ TRENCH BACKFILL SHALL BE EITHER:
  - A. NATIVE MATERIAL OR IMPORTED SOIL (IF NATIVE IS UNSUITABLE)
  - B. CRUSHED AGGREGATE BASE
  - C. TWO SACK CEMENT SAND SLURRY

COMPACTION TEST (USING CITY APPROVED METHOD) ARE REQUIRED UNLESS SLURRY IS USED.
- ⑥ SAWCUTTING WILL BE REQUIRED AROUND THE PERIMETER OF THE FINAL EDGE OF ALL EXCAVATIONS TO PROVIDE CLEAN, STRAIGHT, VERTICAL SIDES.
- 7. T-SECTIONS ARE 12" WIDE AS MEASURED FROM THE FINAL EDGE OF TRENCH (AFTER SLUFFING).
- 8. ALL TRAFFIC STRIPING AND/OR MARKINGS REMOVED BY RESTORATION WORK SHALL BE REPLACED.
- 9. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDITION OF STANDARD SPECIFICATIONS FOR PUBLIC WORKS ("GREENBOOK").
- 10. CONTRACTOR SHALL HAVE A VALID CLASS "A" OR "C8" CALIFORNIA CONTRACTOR'S LICENSE.

## PAVEMENT REPLACEMENT SECTION - CASE I

REVISIONS				CITY OF BEVERLY HILLS, CALIFORNIA	
MARK	DATE	DESCRIPTION		DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION CIVIL ENGINEERING DIVISION	

RECOMMENDED	 <small>CITY ENGINEER</small>	DATE <u>11/18/2011</u>	STANDARD DRAWING
APPROVED	 <small>PUBLIC WORKS DIRECTOR</small>	DATE <u>11-18-11</u>	<b>BH 114</b>
			SHEET 2 OF 4



**CASE II - EXISTING SECTION: PORTLAND CONCRETE CEMENT**

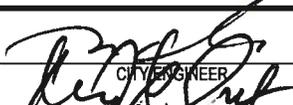
- ① CONSTRUCT NEW PCC PAVEMENT 1" THICKER THAN THE EXISTING CONCRETE, 6" MINIMUM.
- ② THE EXACT LIMITS FOR REMOVAL SHALL BE DETERMINED BY THE CITY ENGINEER SUCH THAT JOIN LINES ARE NOT WITHIN 2'-6" OF EXISTING PAVEMENT JOINTS OR SIGNIFICANT CRACKS. IF THE EXCAVATIONS ARE LESS THAN 5' APART OR LESS THAN 2'-6" FROM A CONCRETE CURB, GUTTER OR EXPANSION JOINT, THE RESTORATION SHALL BE CONTINUOUS BETWEEN EXCAVATIONS AND/OR THE EDGE OF CONCRETE.
- ③ FOR PCC STREETS OR INTERSECTIONS THE LIMITS OF THE RESTORATION SHALL BE A RECTANGULAR AREA EXTENDING TO THE NEAREST CONSTRUCTION JOINT. THE STRUCTURAL SECTION OUTSIDE THE UTILITY TRENCH AREA SHALL BE EQUAL TO ① + ④.
- ④ CONSTRUCT NEW CRUSHED AGGREGATE BASE TO MATCH EXISTING THICKNESS OR 4" THICKNESS, WHICHEVER IS GREATER. COMPACT TO 95% OF RELATIVE DENSITY.
- ⑤ TRENCH BACKFILL SHALL BE EITHER:
  - A. NATIVE MATERIAL OR IMPORTED SOIL (IF NATIVE IS UNSUITABLE)
  - B. CRUSHED AGGREGATE BASE
  - C. TWO SACK CEMENT SAND SLURRY
 COMPACTION TEST (USING CITY APPROVED METHOD) ARE REQUIRED UNLESS SLURRY IS USED.
- ⑥ SAWCUTTING WILL BE REQUIRED AROUND THE PERIMETER OF THE FINAL EDGE OF ALL EXCAVATIONS TO PROVIDE CLEAN, STRAIGHT, VERTICAL SIDES.
- ⑦ DOWEL SIZE, SPACING, AND EMBEDMENT SHOULD BE AS FOLLOWS:

CONCRETE THICKNESS	SIZE AND SPACING	EMBEDMENT
6"	#4 @ 16" O.C.	4"
8"	#5 @ 16" O.C.	6"
10"	#6 @ 16" O.C.	8"

- 8. ALL TRAFFIC STRIPING AND/OR MARKINGS REMOVED BY RESTORATION WORK SHALL BE REPLACED.
- 9. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDITION OF STANDARD SPECIFICATIONS FOR PUBLIC WORKS ("GREENBOOK").
- 10. CONTRACTOR SHALL HAVE A VALID CLASS "A" OR "C8" CALIFORNIA CONTRACTOR'S LICENSE.

**PAVEMENT REPLACEMENT SECTION - CASE II**

REVISIONS				CITY OF BEVERLY HILLS, CALIFORNIA		DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION CIVIL ENGINEERING DIVISION
MARK	DATE	DESCRIPTION				

RECOMMENDED  DATE 11/18/2011

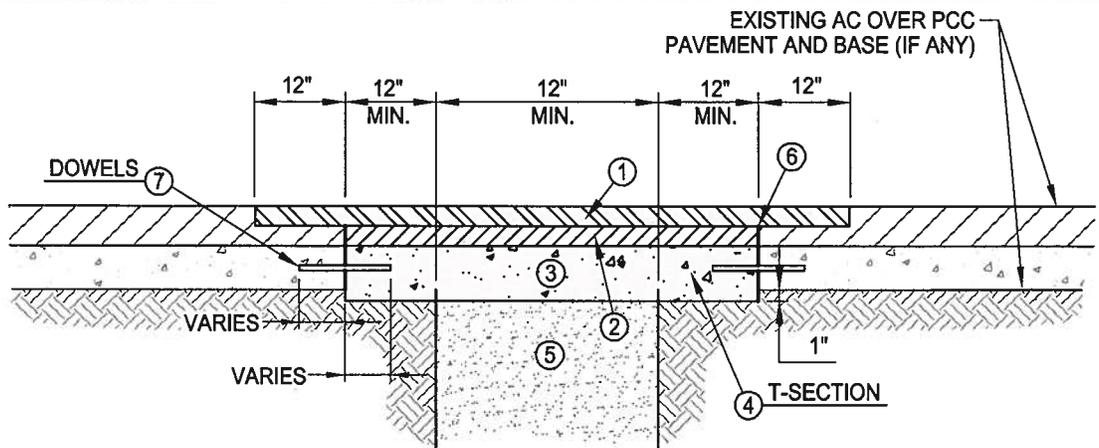
APPROVED  DATE 11-18-11

CITY ENGINEER  
PUBLIC WORKS DIRECTOR

STANDARD DRAWING

**BH 114**

SHEET 3 OF 4



### CASE III - EXISTING SECTION: ASPHALT OVER CONCRETE

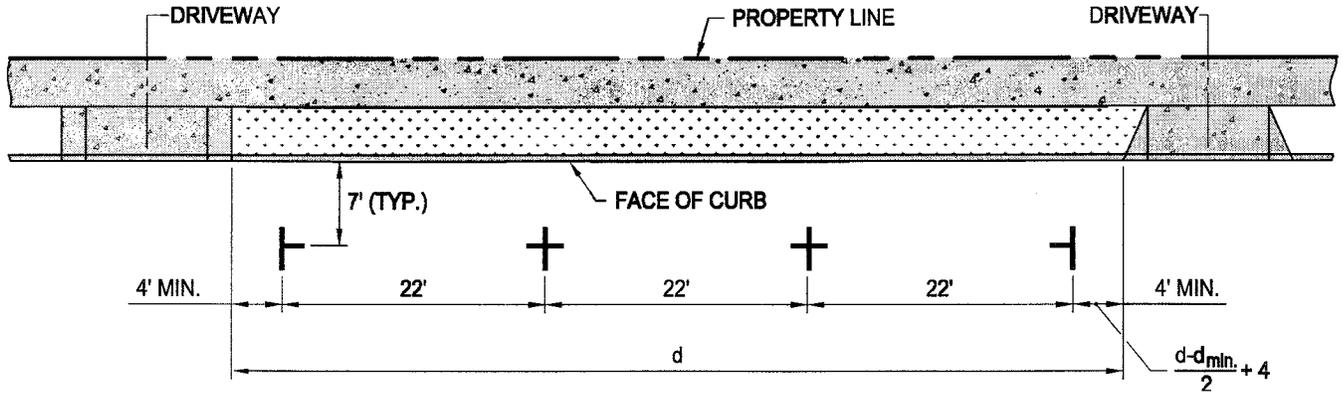
- ① CONSTRUCT 1" NEW ASPHALT CONCRETE WEARING COURSE TYPE D2, PG 64-10. FOR STREETS WITH RUBBERIZED ASPHALT USE ARHM-GG PG-64-16, 2" MIN.
- ② CONSTRUCT NEW ASPHALT CONCRETE BASE COURSE, TYPE B, PG 64-10.
- ③ CONSTRUCT NEW PCC PAVEMENT BASE, 560-C-3250, 1" THICKER THAN THE EXISTING CONCRETE, 6" MINIMUM. ASPHALT CONCRETE LAYERS SHALL BE COMPACTED TO 95% OF MAXIMUM THEORETICAL SPECIFIC GRAVITY.
- ④ THE EXACT LIMITS FOR REMOVAL SHALL BE DETERMINED BY THE CITY ENGINEER SUCH THAT JOIN LINES ARE NOT WITHIN 2'-6" OF EXISTING PAVEMENT JOINTS OR SIGNIFICANT CRACKS. IF THE EXCAVATIONS ARE LESS THAN 5' APART OR LESS THAN 2'-6" FROM A CONCRETE CURB, GUTTER OR EXPANSION JOINT, THE RESTORATION SHALL BE CONTINUOUS BETWEEN EXCAVATIONS AND/OR THE EDGE OF CONCRETE.
- ⑤ TRENCH BACKFILL SHALL BE EITHER:
  - A. NATIVE MATERIAL OR IMPORTED SOIL (IF NATIVE IS UNSUITABLE)
  - B. CRUSHED AGGREGATE BASE
  - C. TWO SACK CEMENT SAND SLURRY
 COMPACTION TEST (USING CITY APPROVED METHOD) ARE REQUIRED UNLESS SLURRY IS USED.
- ⑥ SAWCUTTING WILL BE REQUIRED AROUND THE PERIMETER OF THE FINAL EDGE OF ALL EXCAVATIONS TO PROVIDE CLEAN, STRAIGHT, VERTICAL SIDES.
- ⑦ DOWEL SIZE, SPACING, AND EMBEDMENT SHOULD BE AS FOLLOWS:

CONCRETE THICKNESS	SIZE AND SPACING	EMBEDMENT
6"	#4 @ 16" O.C.	4"
8"	#5 @ 16" O.C.	6"
10"	#6 @ 16" O.C.	8"

8. ALL TRAFFIC STRIPING AND/OR MARKINGS REMOVED BY RESTORATION WORK SHALL BE REPLACED.
9. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDITION OF STANDARD SPECIFICATIONS FOR PUBLIC WORKS ("GREENBOOK").
10. CONTRACTOR SHALL HAVE A VALID CLASS "A" OR "C8" CALIFORNIA CONTRACTOR'S LICENSE.

## PAVEMENT REPLACEMENT SECTION - CASE III

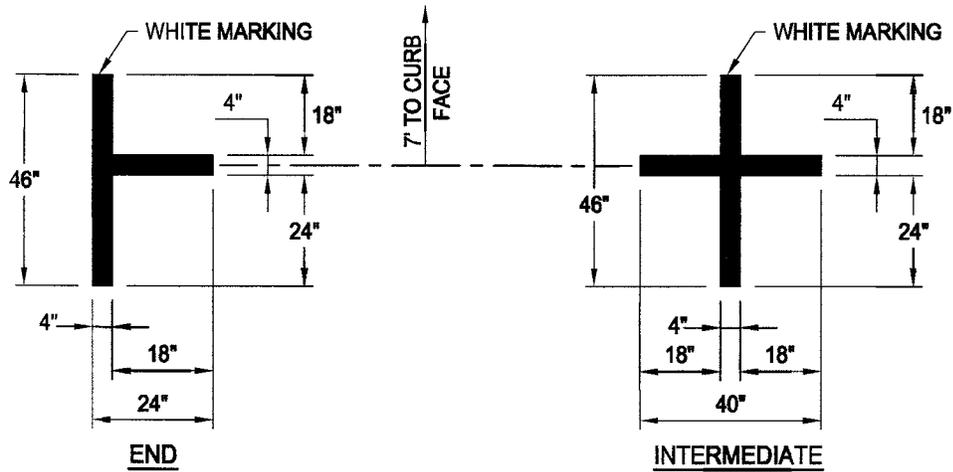
REVISIONS			 <b>CITY OF BEVERLY HILLS, CALIFORNIA</b> DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION CIVIL ENGINEERING DIVISION	STANDARD DRAWING <b>BH 114</b> SHEET 4 OF 4
MARK	DATE	DESCRIPTION		
			RECOMMENDED  DATE 11/18/11 CITY ENGINEER	
			APPROVED  DATE 11-18-11 PUBLIC WORKS DIRECTOR	



d (IN FEET)	NUMBER OF SPACES	d (IN FEET)	NUMBER OF SPACES
0-30	1	140-162	7
30-52	2	162-184	8
52-74	3	184-206	9
74-96	4	206-228	10
96-118	5	228-250	11
118-140	6	250-272	12

### SYMMETRICAL

RESIDENTIAL AND COMMERCIAL FRONTAGE



### PAINTING DETAILS

## PARKING SPACE MARKINGS

REVISIONS		
MARK	DATE	DESCRIPTION



CITY OF BEVERLY HILLS, CALIFORNIA

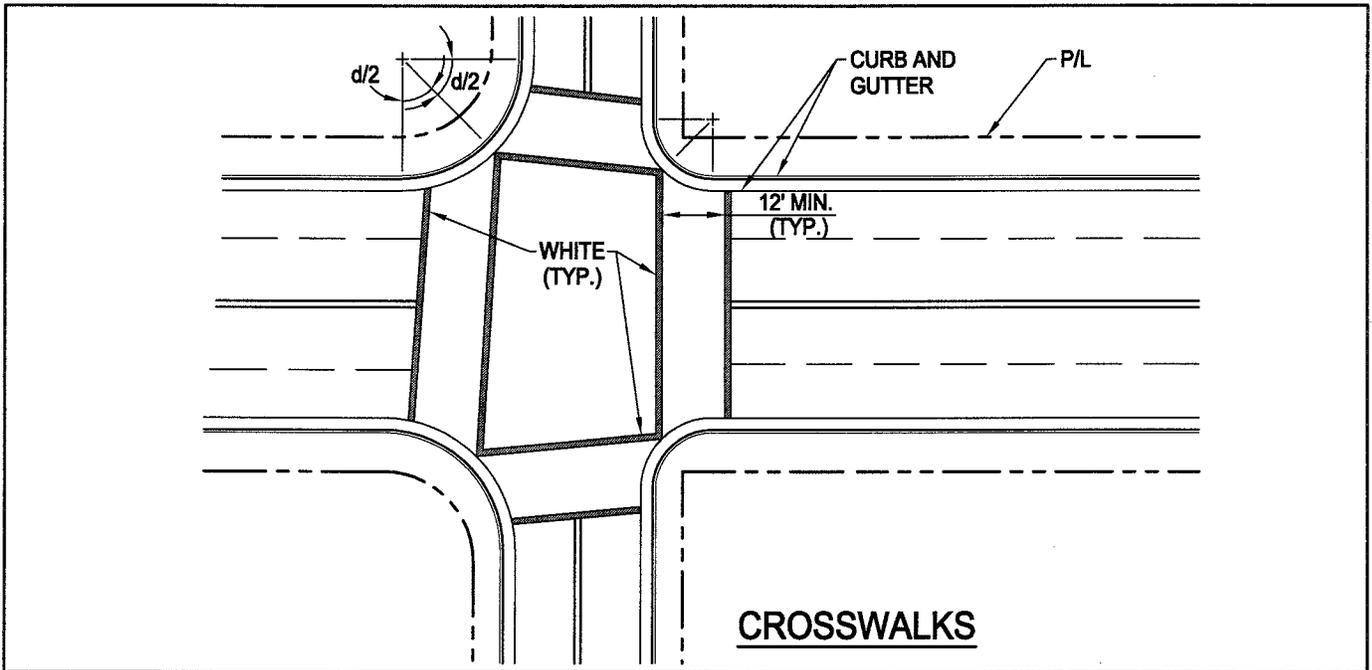
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION  
CIVIL ENGINEERING DIVISION

RECOMMENDED *[Signature]* DATE 7-30-09  
CITY ENGINEER  
APPROVED *[Signature]* DATE 7-31-09  
PUBLIC WORKS DIRECTOR

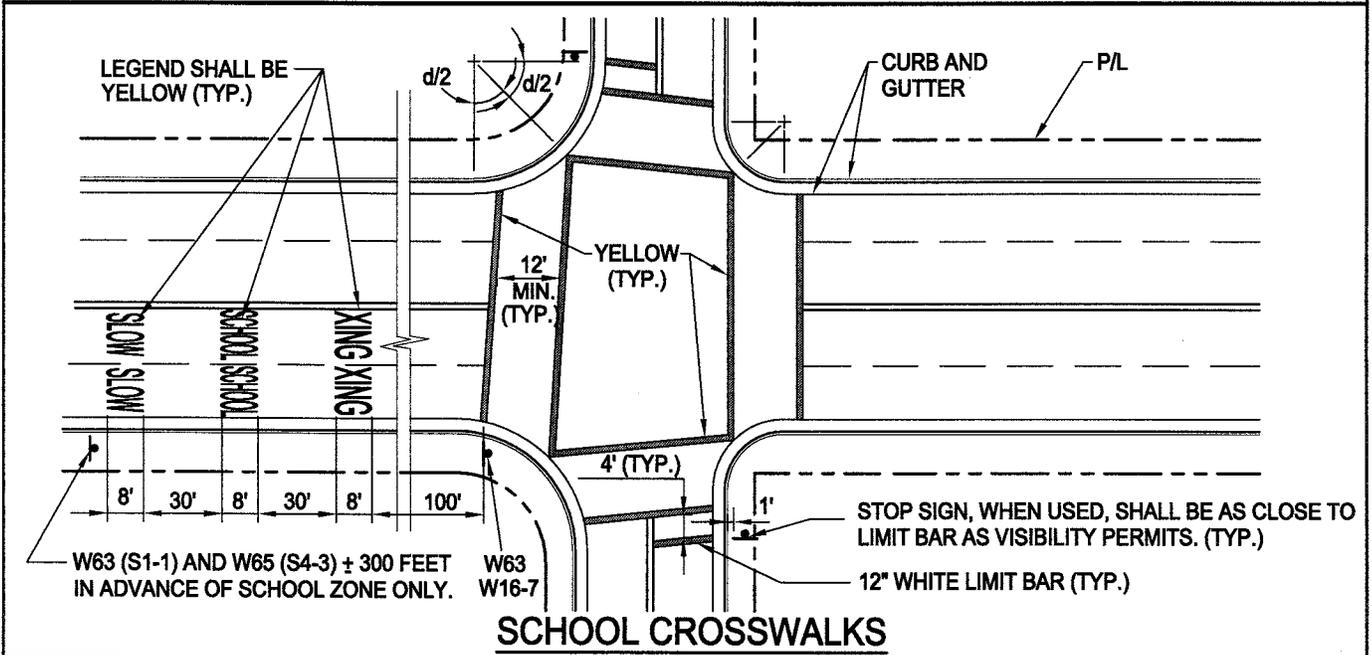
STANDARD DRAWING

**BH 601**

SHEET 1 OF 1



**CROSSWALKS**



**SCHOOL CROSSWALKS**

**NOTES:**

1. ALL CROSSWALK LINES SHALL BE 12" STROKE.
2. CROSSWALK WIDTH SHALL BE EQUAL TO ADJACENT MAXIMUM SIDEWALK WIDTH, BUT NO LESS THAN 12 FEET.
3. OMIT LEGEND ON INTERSECTION APPROACHES WHEN SIGNALS, STOP OR YIELD SIGNS ARE IN PLACE.
4. REFER TO M.U.T.C.D CA SUPPLEMENT (LATEST EDITION).

**CROSSWALKS STRIPING**

REVISIONS		
MARK	DATE	DESCRIPTION



**CITY OF BEVERLY HILLS, CALIFORNIA**

DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION  
CIVIL ENGINEERING DIVISION

RECOMMENDED

*[Signature]*  
CITY ENGINEER

DATE 7-30-09

APPROVED

*[Signature]*  
PUBLIC WORKS DIRECTOR

DATE 7-31-09

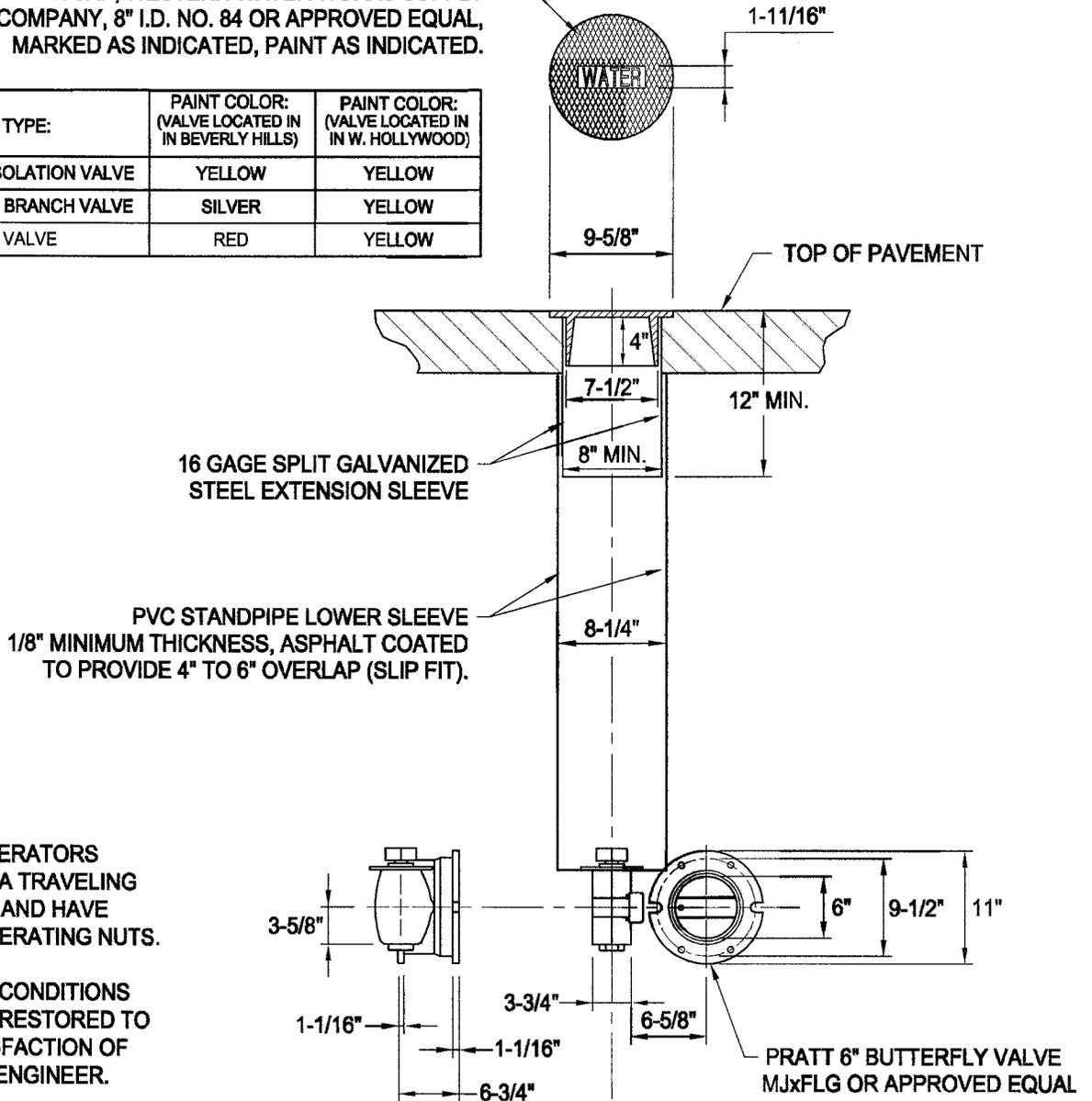
STANDARD DRAWING

**BH 602**

SHEET 1 OF 1

PROVIDE HEAVY DUTY CAST IRON VALVE BOX CAP, WESTERN WATER WORKS SUPPLY COMPANY, 8" I.D. NO. 84 OR APPROVED EQUAL, MARKED AS INDICATED, PAINT AS INDICATED.

VALVE TYPE:	PAINT COLOR: (VALVE LOCATED IN IN BEVERLY HILLS)	PAINT COLOR: (VALVE LOCATED IN IN W. HOLLYWOOD)
WATER MAIN ISOLATION VALVE	YELLOW	YELLOW
FIRE HYDRANT BRANCH VALVE	SILVER	YELLOW
ZONE VALVE	RED	YELLOW



NOTES:

1. VALVE OPERATORS SHALL BE A TRAVELING NUT TYPE AND HAVE 2-INCH OPERATING NUTS.
2. SURFACE CONDITIONS SHALL BE RESTORED TO THE SATISFACTION OF THE CITY ENGINEER.

## VALVE BOX DETAIL

REVISIONS		
MARK	DATE	DESCRIPTION



### CITY OF BEVERLY HILLS, CALIFORNIA

DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION  
CIVIL ENGINEERING DIVISION

RECOMMENDED

*Chris Toia*  
CITY ENGINEER

DATE 7-30-09

APPROVED

*[Signature]*  
PUBLIC WORKS DIRECTOR

DATE 7-31-09

STANDARD DRAWING

**BH 707**

SHEET 1 OF 1

## **APPENDIX B**

### **Technical Specifications**

## PART 1

### ASPHALT RUBBER HOT MIX (ARHM)

**302-9.1 General.** Replace the entire subsection with the following: ARHM shall conform to 203-11. Unless otherwise shown on the Plans, ARHM shall be Class ARHM-GG-C.

The Contractor shall schedule the paving work such that no longitudinal drop-offs on the pavement will remain overnight in the travelled way. Any transverse drop-offs on the pavement over 1 inch in height that will remain overnight shall be ramped with temporary AC pavement.

Roadways to receive full-width cold milling shall be resurfaced within **24 hours** of cold milling any portion of the Work.

**302-9.3 Distribution and Spreading.** Replace the second sentence with the following: Asphalt rubber hot mix shall not be placed until the atmospheric temperature is a minimum of 55° F and rising, and the surface temperature of the underlying material is a minimum of 55° F, or during unsuitable weather.

The spreading and finishing machine shall be equipped with a fully automatic screed control system which shall be in operation at all times. The system shall be either a contact (skid) or non-contact (sonic averaging) system. The skid shall be a minimum of 30-feet long, mounted on the side of the spreading and finishing machine which will receive the next mat of material, and be placed in contact with the pavement surface. The sonic averaging system shall have a ski, a minimum of 24 feet long, mounted on the side of the spreading and finishing machine which will receive the next mat of material. A joint maker placed on the side of the spreading and finishing machine to ride on the existing or previously constructed surface or mat of material may be required as directed by the Engineer.

## PART 2

### ENGINEERING GEOSYNTHETICS, PAVING MAT HS (HIGH STRENGTH) INTERLAYER

#### PART 1-GENERAL

##### 1.01 Description

This work shall consist of furnishing and placing an engineered paving mat HS (high strength) within the pavement structure as shown on the plans or directed by the engineer. The engineered paving mat HS (high strength) shall provide a moisture barrier/stress relieving membrane and shall be placed beneath a hot-mix asphalt (HMA), warm-mix asphalt (WMA) or rubber hot-mix asphalt (RHMA) overlay.

##### 1.02 Quality Control

- A. Pre-Construction Conference: Prior to the installation of the interlayer, the Contractor shall arrange a meeting at the site with the manufacturer representative and, where applicable, the paving mat installer. The engineer shall be notified at least 3 days in advance of the time of the meeting.
- B. A manufacturer representative shall be present, at minimum, for the first day of installation of the engineered paving mat and available thereafter upon request by the engineer.

##### 1.03 Measurement and Payment:

- A. Paving Mat HS (high strength) shall be measured by the square yard (square meter) of paving mat HS placed.
- B. Payment for the Paving Mat HS will be made at the Contract Unit price for square yard (square meter), or as specified in the Special Provisions.

#### PART 2-PRODUCT

##### 2.01 Material

The engineered paving mat material shall be GlasPave50 Paving Mat, Manufactured by Tensar or an approved equal, meeting the following physical properties table and the additional "In-asphalt" performance requirements. Fiberglass Polyester Paving Mat materials submitted as "or equals" shall demonstrate that the product – as installed - meets all requirements in the properties table.

PHYSICAL PROPERTIES OF FIBERGLASS POLYESTER PAVING MAT			
Property	Test Method	Units	MARV*
<b>Index Properties for Quality Control</b>			
Asphalt Retention	ASTM D6140	l/m <sup>2</sup> (gal./yd <sup>2</sup> )	0.46 (0.10)
Mass per unit area	ASTM D5261	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	237 (7.0)
Tensile strength, MD	ASTM D5035	kN/m (lb/in)	50 min (280)
Tensile Strength, CD	ASTM D5035	kN/m (lb/in)	50 min (280)
CBR Puncture**	ASTM D6241	N	1779 (400)
Elongation at maximum load, MD	ASTM D5035	percent	<5
Elongation at maximum load, CD	ASTM D5035	percent	<5
Melting point	ASTM D276	C ( F)	>232 (>450)
<b>In Asphalt Performance Requirements</b>			
Stress Improvement Factor	TTI Overlay Tester	Relative to Control	6
Permeability	FM 5-565	cm/sec	< 6x10 <sup>-08</sup> ●
Recyclability without screening	AASHTO T283-07	%	> 95% of control
* MARV = Minimum Average Roll Value ** Assess 360° tensile strength symmetry Using a PG64 hot mix asphalt with a 12.5mm nominal maximum aggregate size ● Using a hot mix asphalt 2" thick with a permeability > 6 x 10 <sup>-06</sup> cm/sec 30% by weight of RAP was used for both the control RAP and GlasPave Rap			

## 2.02 Millability and Recyclability

The material supplier shall provide proof that the paving mat can be milled and the resulting RAP containing the milled paving mat can be recycled (without screening) back into a new mix. Proof of millability and recyclability for this RAP shall consist of written documentation from an independent asphalt recycling plant and/or testing lab. Composite interlayers with paving fabrics are not eligible for consideration.

## 2.03 Storage and Handling

The engineered paving mat HS (high strength) shall be stored as per the manufacturer's recommendations in a dry covered condition free from dust, dirt and moisture. The engineered paving mat HS (high strength) shall be installed in accordance with the manufacturer's specifications and this specification. Where a conflict exists between the specifications, the more stringent specification will apply. A copy of the manufacturer's

specifications shall be provided to the engineer at the pre-construction meeting or no later than five working days prior to installation.

#### 2.04 Tack Coat

- A. Asphalt binder for application of the mat shall be PG 64–10 or PG 70-10. Higher ambient installation temperatures will require PG 70–10 asphalt binder to reduce the chances of over-saturation and improve the stability of the mat under construction traffic.
- B. On a new pavement surface, use an application rate of 0.15 Gal/SY, on an aged oxidized surface use an application rate of 0.17 Gal/SY, and use an application rate of 0.2 Gal/SY on a milled surface.

### PART 3 - EXECUTION

#### 3.01 Placement

- A. The surface on which the engineered paving mat HS (high strength) is to be placed shall be reasonably free of dirt, water, vegetation or other debris. The engineered paving mat HS (high strength) shall be placed on a drainable surface, and any rutting or low spots in the pavement shall be removed by milling or by the use of a leveling course. Potholes shall be properly repaired as directed by the engineer. Cracks exceeding 1/4 inch in width shall be filled with suitable crack filler. Crack and pothole fillers shall be allowed to cure. When placing on a milled surface, it is critical to have a pneumatic tire roller to facilitate full adhesion.
- B. When placement of the engineered paving mat HS occurs on a leveling course the surface shall be allowed to cool sufficiently and stabilize, prior to placement of the engineered paving mat, to prevent lift up of paving mat.
- C. Neither the asphalt binder nor the engineered paving mat HS (high strength) shall be placed when weather conditions, in the judgment of the engineer, are not suitable. Air and pavement temperature shall be sufficient to allow the tack coat to hold the engineered paving mat HS (high strength) in place. The air temperature shall be 50 F and rising for placement of the asphalt tack coat.
- D. Application of the tack coat shall be by a calibrated distributor truck spray bar. Emulsified Asphalt shall not be allowed. Temperature of the tack coat shall be sufficiently high enough to permit uniform spray pattern and shall be between 300° F and 400° F. *It is recommended that tack coat be at least 325° F.*
- E. The target width of the tack coat application shall be the engineered paving mat HS (high strength) material width plus 4 inches. Tack coat application shall be wide enough to cover the entire width of engineered paving mat HS (high strength) material overlaps. The tack coat shall be applied only as far in advance of the engineered paving mat HS (high strength) material installation as is appropriate to

ensure a tacky surface at the time of the engineered paving mat material placement. Traffic shall not be allowed on the tack coat.

- F. The engineered paving mat HS (high strength) shall be placed onto the tack coat with minimum folds or wrinkles and before the tack coat has cooled and lost tackiness. As directed by the engineer, wrinkles or folds in excess of 1 inch shall be slit and laid flat or pulled out and replaced. In these repaired areas, additional tack coat shall be applied as needed to achieve a sound bond to the substrate. Damaged engineered paving mat shall be removed and replaced, per the manufacturer's recommendations, at the contractor's expense with the same type of material.
- G. Brooming, squeegee or pneumatic tire rolling shall be used to remove any air bubbles and to maximize engineered paving mat HS (high strength) contact with the pavement surface and shall be done in accordance with the manufacturer's specifications and to the satisfaction of the engineer. When there is difficulty getting adhesion such as windy conditions, placement shall be closer behind the tack application as the wind can create a skim on the asphalt surface quickly, It is also recommended that a rubber tire roller (do not use a steel roller) be used to aid in full embedment of the interlayer into the hot asphalt tack.
- H. Excess tack coat that bleeds through the engineered paving mat HS (high strength) under normal construction traffic shall be countered by broadcasting clean sand or hot mix to create a bond break between the excess tack and the construction equipment tires. If sand is applied, any excess sand shall be removed from the interlayer prior to placing the HMA, WMA OR RHMA overlay. No other material, such as asphalt release agents or diesel, shall be used for this purpose.
- I. No traffic, except necessary construction traffic or emergency vehicles, shall be driven on the engineered paving mat HS (high strength), unless approved by the engineer. If traffic on the interlayer is approved by the engineer, clean sand shall be lightly broadcasted over the engineered paving mat HS (high strength) interlayer, and any loose sand shall be removed prior to paving.
- J. Placement of the first lift of the HMA/WMA overlay shall closely follow placement of the engineered paving mat HS (high strength). All areas in which the engineered paving mat has been placed shall be paved during the same day, unless approved otherwise by the engineer. In the event of rainfall on the engineered paving mat HS (high strength) prior to the placement of the first HMA, WMA OR RHMA overlay lift, the engineered paving mat HS (high strength) shall be allowed to dry before the HMA, WMA OR RHMA is placed. The compacted thickness of the first lift of the HMA, WMA OR RHMA overlay on the engineered paving mat HS (high strength) shall not be less than 1.5 inches, and the temperature of the mix at placement shall not exceed the engineered paving mat HS (high strength) melting point temperature. Where the total HMA, WMA OR RHMA overlay thickness is less than 1.5 inches, engineered paving mat HS (high strength) shall not be placed.



## Installation Procedures for GlasPave®

### A Hybrid Geosynthetic Waterproofing Paving Mat

A hybrid geosynthetic paving material, GlasPave® is a unique combination of fiberglass mesh embedded into high performance polyester mats or veils. The result is an engineered fiberglass reinforced paving mat that delivers the highest tensile strength in the market compared to any other paving mat or fabric. The distinctive design allows for quick wet out and strong bond with a variety of tack coats. GlasPave is manufactured by Saint-Gobain ADFORS – the global leader in engineered grids and fabrics for the paving marketplace.



*GlasPave is a unique combination of fiberglass mesh embedded into high performance polyester mats.*

#### KEY STEPS

1. Vacuum or power broom all surfaces prior to spraying a tack coat and installing the GlasPave paving mat. All surfaces must be free from dirt and loose debris.
2. All cracks greater than ¼ in. (6 mm) must be filled with approved crack sealant and all pot holes must be repaired.
3. If finish or profile milling has been performed, a leveling course is typically not required prior to the placement of the paving mat. This will depend on the smoothness of the surface created during the milling operation and the specific interlayer material being placed. The milling equipment and operation shall have the capability to:
  - a. Remove asphalt concrete to a minimum depth of ¼ in. (6 mm).
  - b. Provide a surface relief (distance between ridges) of no more than ¼ in. (6 mm).
  - c. Maintain a ¼ in. (6 mm) grade tolerance over the surface (transverse and longitudinally).
  - d. There shall be no more than ¼ in. (6 mm) vertical height variation between planed and unplaned surfaces at the inside edge of conform and taper mills.
  - e. If cold planing is performed, a leveling course is required prior to the placement of the paving mat.
  - f. A leveling course is required over all Portland cement concrete prior to placement of the GlasPave paving mat.
4. A hot asphalt cement spray tack coat must be used prior to installing the GlasPave paving mat. If a chip seal is placed on top of the GlasPave paving mat, then either asphalt hot spray or emulsions can be used. In no situation shall cut backs or solvent based bitumen be used.
5. The tack coat shall be applied by a motorized distributor (spreader) that has the capability of adjusting spray rates by 1/10 gal/sq yd. The valves on the distributor bar must fan in an overlap fashion at the recommended application rate.
6. The recommended application is 0.15 gal/sq yd or 0.70 liters/m<sup>2</sup>.
7. If the tack coat must be placed by hand, then a spray can or squeegee should be used. This practice is not recommended and should only be considered for unique circumstances.
8. All traffic should be kept off of the tack coat.

9. GlasPave® can be placed by tractor or a distributor truck with a fabric applicator attached to the back. If GlasPave needs to be placed by hand, then it should be broomed into the hot tack coat. Any wrinkling must be repaired by slitting and lapping in the direction of the paving train.
10. Asphalt concrete (AC) or chip seal (CS) should be placed the same day. Vehicular traffic shall be kept off the GlasPave until the AC or CS is installed.

### TACK COATS

Types - AC-20 or PG64-22 shall be used. When ambient temperatures are above 90°F, the use of AC-30 or PG70-10 is recommended.

### APPLICATION RATE

Optimum application rate is 0.15 gal/sq yd. This rate can vary +/- 0.05 gal/sq yd depending on the condition of the existing surface. Tack coat coverage shall be across the full width of the GlasPave paving mat and over any overlaps.

### INSTALLATION

Use either a fabric tractor or an oil distributor equipped with a fabric applicator. A full width broom shall be attached to the applicator to push the GlasPave into the tack coat.

Surface and ambient temperature during fabric installation shall be warm enough to allow adequate “tack” from the asphalt binder to hold the GlasPave in place. A minimum temperature for application of most asphalt cement binders is approximately 50°F (10°C) and rising, however, the temperature should not be below the project specifications except as waived by the engineer.

### OVERLAPS

1. Transverse - minimum 3 in. (75 mm)  
Longitudinal - 2 in. (50 mm)
2. All transverse overlaps should be “shingled” in the direction of the paving train.
3. Traffic - Only construction traffic should be allowed to run on the GlasPave paving mat and no traffic should be allowed on the tack coat.

### PAVING

All paving machines are allowed to run on the GlasPave paving mat, however, all turns should be made gradually. All normally accepted paving operations, including belly dumps, etc., can be deployed. A nominal 2 in. (50 mm) asphalt overlay, with any location having a minimum compacted thickness of 1½ in. (40 mm), is required. In the event that too much tack coat has been applied to the surface, then small quantities of asphalt concrete can be broadcast on the GlasPave. Best practices used on any paving mat may be used on GlasPave.

### STORAGE

GlasPave is resistant to rot, chemicals and mildew, however, best practices dictate that the material be stored indoors prior to use.



**Tensar**®

Tensar International Corporation  
2500 Northwinds Parkway  
Suite 500  
Alpharetta, GA 30009  
800-TENSAR-1  
tensarcorp.com



Exclusive distributors in the Americas for:

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## PART 3

### PCC PAVEMENT GRINDING

**901-1 GENERAL.** PCC pavement grinding shall consist of grinding existing concrete pavement at the locations shown on the Plans and disposal of the residue.

**901-2 EQUIPMENT.** Grinding shall be performed with abrasive grinding equipment utilizing diamond cutting blades mounted on a self-propelled machine specifically designed and constructed for grinding and texturing PCC pavement. Grinding equipment that causes raveling, aggregate fracturing, or spalling, or that damages transverse or longitudinal joints shall not be used.

**901-3 GRINDING REQUIREMENTS.** Grinding shall be performed in the longitudinal direction of the traveled way. The noise level created by grinding operations shall not exceed 86 dBA at a distance of 50 feet at right angles to the direction of travel.

Grinding shall result in a parallel corduroy texture consisting of grooves 5/64 inch to 1/8 inch wide with 55 grooves to 60 grooves per foot width of grinding. Tops of ridges shall be between 1/16 inch and 5/64 inch from the bottom of the blade grooves.

Grinding shall be performed as necessary to extend the area ground in each lateral direction so that the lateral limits of grinding are at a constant offset from, and parallel with, the nearest lane line or pavement edge, and in each longitudinal direction so that the grinding begins and ends at lines normal to the pavement centerline, within any one ground area. Ground areas shall be neat rectangular areas of uniform surface appearance.

Grinding shall be performed such that the resulting pavement surface on both sides of transverse joints and cracks has the same depth of texture and does not vary from a true plane enough to permit a 5/64-inch thick shim 3-inches wide to pass under a 3-foot straightedge adjacent to either side of the joint or crack when the straightedge is laid on the pavement parallel to the centerline with its midpoint at the joint or crack.

The finished surface shall not vary from a true plane enough to permit a 1/8 inch thick shim, 3 inches wide to pass under a straightedge 12 feet  $\pm$  2-1/2 inches long when the straightedge is laid on the finished surface parallel with the centerline.

Cross-slope uniformity and positive drainage shall be maintained across the entire traveled way. The cross-slope shall be uniform such that when tested with a straightedge 12 feet  $\pm$  2-1/2 inches long placed perpendicular to the centerline, the ground pavement surface shall not vary more than 1/4 inch from the lower edge of the straightedge.

Ground surfaces shall not be smooth or polished and shall have a coefficient of friction of not less than 0.30 as determined by California Test 342.

## PART 4

### MICRO-MILLING

**900-1 GENERAL.** Micro-milling shall consist of the cold milling of existing asphalt concrete pavement with a milling machine equipped with a cutting drum specifically designed and constructed for micro-milling.

**900-2 MILLING MACHINES.** Milling machines shall conform to 302-1.2 and the following:

- a) Be equipped with a micro-milling drum with tungsten-carbide-tipped cutting teeth spaced no greater than 1/4 inch apart on center. The configuration of the teeth shall be such that the deviation in elevation between any 2 teeth does not exceed 1/16 inch.
- b) Be capable of removing asphalt concrete pavement to a tolerance of  $\pm 1/8$  inch.
- c) Be equipped with an automatic grade control system operating in "profile" mode. The system shall be either:
  - i) a 30-foot-long paving machine ski with spring-loaded feet attached to the bottom on not more than 1.5-foot increments, such that the feet rise and fall over small irregularities on the pavement surface. The upper part of the ski shall be one piece and of such construction that it will not flex or bend by more than 1/8 inch at either end when supported off the grade by a fixture located at its center of gravity. The grade control system shall be referenced off the center of the ski, with skis mounted on each side of the milling machine such that the ski's longitudinal center is even with the center of the milling machine's cutting drum; or,
  - ii) a sonic averaging system with automated controls. Each corner of the the milling machine shall be equipped with sonic grade averaging and slope sensors. The system shall feature plug-in connections, internal cable routing, capable of controlling each side of the milling machine, and a separate control box for the operator.
- d) Be equipped with a Tier V or higher engine compliant with the regulations of the California Air Resources Board.

**900-3 MILLING OPERATIONS.** Milling operations shall progress from the low side of each roadway barrel or lane and progress towards the high side. Each successive pass of the milling machine shall meet the line and grade of the previous pass. The speed of the milling machine shall be maintained at a rate which results in a uniform pavement texture.

Micro-milling shall result in a grid-patterned textured pavement surface with longitudinal ridges approximately the same distance apart as the cutting teeth. The ridges shall be consistent in depth, width, and profile. The distance between the top of

each ridge and the adjacent valleys shall not exceed 1/8 inch.

The resulting profile and cross slope of the milled pavement surface shall be such that a 12-foot long straightedge laid perpendicular or parallel to the centerline will not allow a shim with a width of 1 inch and a thickness of 3/16 inch to pass under the straightedge at any point except at breaks in profile grade or cross slope.

Milled pavement surfaces which do not conform to the requirements above shall be corrected by the Contractor. The Contractor shall prepare and submit to the Engineer for approval a correction plan prior to initiating corrective action.

During milling operations, the cutter teeth shall be regularly checked and replaced as necessary to maintain the tolerances specified in 900-2.

**900-3 WORK SITE MAINTENANCE.** Work site maintenance shall conform to 7-8. A self-loading motorized street sweeper equipped with both brooms and a vacuum system, and a functional water spray system shall immediately follow the milling machine. Sweeping shall continue until loose millings have been completely removed and as requested by the Engineer. The Contractor shall maintain the micro-milled surface until the surface treatment is applied.

**900-4 DISPOSAL OF MILLINGS.** Millings shall be considered the property of the Contractor and shall be disposed of by the Contractor. The Contractor shall notify the Engineer a minimum of 2 Working Days prior to the start of milling operations of the disposal location.

**900-5 MEASUREMENT.** Micro-milling will be measured by the square foot.

**900-6 PAYMENT.** Payment for micro milling will be made at the Contract Unit Price per square yard for "MICRO-MILL AC PAVEMENT."

## Part 5

### MICROSURFACING

**602-1 General.** Microsurfacing shall consist of mixing a microsurfacing emulsion (MSE), water, additives, mineral filler, and aggregate; and spreading the mixture on a pavement surface as shown on the Plans.

#### 602-2 Materials.

**602-2.1 Microsurfacing Emulsion (MSE).** MSE shall be a quick-traffic, homogeneous, polymer-modified, cationic asphalt emulsion. MSE shall conform to the requirements specified in AASHTO M208 or ASTM D2397 for CSS-1h and Table 602-2.1 (A). The cement mixing test shall be waived for MSE.

**TABLE 602-2.1 (A)**

Test	Test Method	Requirement
Viscosity @ 25°C, SSF	AASHTO T 59	15-90 sec
Sieve Test, max.	AASHTO T 59	0.30%
Settlement, 5 days, max.	ASTM D 244	5%
Storage Stability, 1 day, max.	AASHTO T 59	1%
Residue by Evaporation, min.	California Test 331	64 %
Tests on Residue:		
Test	Test Method	Requirement
Penetration @ 77°F (25°C)	AASHTO T 49	40-90
Softening Point, min.	AASHTO T 53	135°F (57°C)

Polymers shall be milled or blended into the asphalt or blended into the emulsifier solution prior to the emulsification process. MSE shall contain a minimum of 3 percent polymer solids based on the weight of residual asphalt and shall be certified by the MSE supplier.

The 5-day settlement test may be waived, provided MSE stored for use on the Work site is used within 36 hours from the time of shipment-

A Certificate of Compliance conforming to 4-1.5 shall be furnished with each shipment of MSE and submitted to the Engineer.

**602-2.2 Water and Additives.** Water shall be potable, free of harmful soluble salts, reactive chemicals, and any other contaminants, and of such quality that the asphalt will not separate from the MSE before the microsurfacing mixture is placed.

If necessary for workability, liquid additives that will not adversely affect the microsurfacing mixture may be used if so approved by the Engineer.

**602-2.3 Mineral Filler.** Mineral filler shall be non-air entrained portland cement or hydrated lime that is free of lumps. Portland cement shall be Type I, Type II, Type III or a combination thereof. The type of mineral filler shall be determined by the Contractor based on laboratory mix designs. Mineral filler will be considered part of the aggregate gradation requirement. An increase or decrease of 1 percent may be approved by the Engineer if necessary for better consistency or set times.

**602-2.4 Aggregate.** Aggregate type shall be as shown on the Plans. Aggregate shall be free from vegetable matter and other deleterious substances, lumps and oversize particles.

Aggregate shall conform to the grading and quality requirements prior to the addition of the MSE. If aggregates are blended, each component aggregate shall conform to the sand equivalent and durability index requirements.

The percentage composition by weight of aggregate, including mineral filler, shall conform to Table 602-2.4 (A) for Type II and Table 602-2.4 (B) for Type III.

**TABLE 602-2.4 (A)**  
**TYPE II**

<b>Sieve Sizes</b>	<b>Percentage Passing</b>
3/8 (9.5 mm)	100
#4 (4.75 mm)	94 – 100
#8 (2.36 mm)	65 – 90
#16 (1.18 mm)	40 – 70
#30 (600 μm)	25 – 50
#200 (75 μm)	5 – 15

**TABLE 602-2.4 (B)**  
**TYPE III**

<b>Sieve Sizes</b>	<b>Percentage Passing</b>
3/8 (9.5 mm)	100
#4 (4.75 mm)	70 – 90
#8 (2.36 mm)	45 – 70
#16 (1.18 mm)	28 – 50
#30 (600 μm)	19 – 34
#200 (75 μm)	5 – 15

The aggregate, excluding mineral filler, shall conform to the requirements shown in Table 602-2.4 (C).

**TABLE 602-2.4 (C)**

Test	California Test	Requirement
Sand Equivalent, min.	217	65
Durability Index, min.	229	55
Percentage of Crushed Particles, min. <sup>1</sup>	205	100%
Los Angeles Rattler Loss at 500 Rev., max. <sup>2</sup>	211	35%

Notes:

1. California Test 205, Section D, is amended to read: "Any particle having 2 or more freshly, mechanically fractured faces shall be considered a crushed particle."
2. California Test 211, Los Angeles Rattler, shall be performed on the parent aggregate before crushing

No single aggregate grading or sand equivalent test shall represent more than 275 tons or one day's production, whichever is smaller.

**602-2.5 Mix Design.** The Contractor shall submit in accordance with 2-5.3 of Section G a laboratory report of tests and a proposed mix design covering the specific materials proposed for use on the Work. The component materials used in the mix design must be the same materials that will be used during microsurfacing placement.

The percentages of each individual material proposed in the mix design shall be shown in the laboratory report. Adjustments may be required during construction based on field conditions. Individual materials shall be within the limits shown in Table 602-2.5 (A).

**TABLE 602-2.5 (A)**

<b>MSE Residual Asphalt</b>	5.5% to 10.5% by dry weight of aggregate
<b>Water and Additives</b>	No Limit
<b>Mineral Filler</b>	0% to 3% by dry weight of aggregate

Binder content shall be determined by the mix design, not specified.

The mix designs and aggregate tests shall be performed by a laboratory capable of performing the applicable International Slurry Surfacing Association (ISSA) tests. The proposed microsurfacing mixtures shall conform to the specified requirements when tested in conformance with the tests shown in Table 602-2.5 (B).

**TABLE 602-2.5 (B)**

<b>Test</b>	<b>ISSA Test Method</b>	<b>Requirements</b>
Wet Cohesion @ 30 Minute (Set), min. @ 60 Minute (Traffic), min.	TB* 139	12 kg-cm 20 kg-cm
Excess Asphalt, max.	TB* 109	50 g/ft <sup>2</sup> (540 g/m <sup>2</sup> )
Wet Stripping, min.	TB* 114	Pass (90% Minimum)
Wet Track Abrasion Loss 6-day Soak, max.	TB* 100	75g/ft <sup>2</sup> (810 g/m <sup>2</sup> )
Displacement Lateral, max. Specific Gravity After 1000 Cycles of 125 lbs (57 kg), Max.	TB* 147A	5%  2.10
Classification Compatibility, min.	TB* 144	(AAA, BAA) 11 Grade Points Minimum
Mix Time @ 77°F, min.	TB* 113	Controllable to 120 Seconds Minimum

TB\* = Technical Bulletin

The laboratory that performed the tests and designed the mixtures shall sign the laboratory report. The report shall show the results of the tests on individual materials and shall compare their values to those required by these Special Provisions. The report shall clearly show the proportions of aggregate, water (minimum and maximum), additive usage, mineral filler (minimum and maximum), and MSE residual asphalt content (minimum and maximum) based on the dry weight of aggregate. The laboratory shall report the quantitative effects of moisture content on the unit weight of the aggregate (bulking effect) in conformance with the requirements of ASTM C29M. Previous laboratory reports covering the same materials may be accepted provided the material test reports were completed within the previous 12 months. The mix design shall further show the recommended changes in water, additive, and mineral filler proportions for high temperature weather conditions by reporting proportions of materials required for 60 seconds of mix time with materials heated to 100°F.

The component materials used in the mix design shall be representative of the microsurfacing materials proposed by the Contractor for use on the Work.

Once the mix design is approved by the Engineer, no substitution of other material will be permitted unless the materials proposed for substitution are first tested and a laboratory report is submitted for the substituted design in conformance with these special provisions. Substituted materials shall not be used until the mix design for those materials has been approved by the Engineer.

The completed mixture, after addition of water and additives, if additives are used, shall be such that the microsurfacing mixture has proper workability. At the expiration of the time allowed for closure of lanes, the microsurfacing mixture shall be sufficiently cured to support unrestricted traffic.

**602-2.6 Proportioning.** Aggregate, water, additives (if used), mineral filler, and MSE shall be proportioned by volume utilizing the mix design approved by the Engineer. If more than one kind of aggregate is used, the correct amount of each kind of aggregate to produce the required grading shall be proportioned separately, prior to adding the other materials of the mixture, in a manner that will result in a uniform and homogeneous blend.

The aggregate shall be proportioned using a belt feeder operated with an adjustable cutoff gate. The height of the gate opening shall be determinable. The MSE shall be proportioned by a positive displacement pump. Variable rate emulsion pumps, if used, shall be calibrated and sealed in the pump's calibrated condition in conformance with California Test 109 prior to usage.

The delivery rate of aggregate and MSE per revolution of the aggregate feeder shall be calibrated at the appropriate gate settings for each mixer-spreader truck used on the project in conformance with California Test 109.

The aggregate belt feeder shall deliver aggregate to the pugmill with such volumetric consistency that the deviation for any individual aggregate delivery rate check-run shall not exceed 2 percent of the mathematical average of 3 runs of a minimum of 3 tons each. The emulsion pump shall deliver MSE to the pugmill with such volumetric consistency that the deviation for any individual delivery rate check-run shall be within 2 percent of the mathematical average of 3 runs of a minimum of 300 gallons each.

The MSE storage tank shall be located immediately before the emulsion pump and shall be equipped with a device which will automatically shut down the power to the emulsion pump and aggregate belt feeder when the MSE level is lowered to a point where the pump suction line is exposed.

A temperature-indicating device shall be installed in the emulsion storage tank at the pump suction level. The device shall indicate the temperature of the MSE and shall be accurate to within 5°F.

The belt delivering the aggregate to the pugmill shall be equipped with a device to monitor the depth of aggregate being delivered to the pugmill. The device for monitoring the depth of aggregate shall automatically shut down the power to the aggregate belt feeder whenever the depth of aggregate is less than the target depth of flow. A second device shall be located where the device will monitor the movement of the aggregate belt by detecting revolutions of the belt feeder. The devices for monitoring no flow or belt movement shall automatically shut down the power to the aggregate belt when the aggregate belt movement is interrupted. The device to detect revolutions of the belt feeder will not be required where the aggregate delivery belt is an integral part of the drive chain. To avoid erroneous shutdown by normal fluctuation, a delay of 3 seconds will be permitted between sensing and shutdown of the operation.

### **602-3 MIXING AND SPREADING EQUIPMENT.**

**[Use 602-3.1 and 3.2 as follows unless continuous mixers cannot be used due to roadway constraints such as tight curves, winding alignments, etc:]**

**602-3.1 General.** Mixing and spreading equipment shall be approved by the Engineer prior to the start of the Work. Mixer-spreader machines shall conform to 602-3.2 except that mixer-spreader trucks may be used in the following areas only:

1. Cul-de-sacs.
2. Side streets.
3. Gore areas.
4. Areas requiring hand work.

**602-3.2 Mixer-Spreader Machines.** Mixer-spreader machines (machines) shall be specifically designed and manufactured to place microsurfacing, self-propelled, self-loading, and capable of loading materials while continuing to lay microsurfacing. Machines shall be equipped with a continuous-flow mixing unit capable of accurately proportioning and delivering the aggregate, MSE, mineral filler, water and additives to a revolving double-shafted mixer and discharging the resulting microsurfacing mixture on continuous-flow basis. Batch machines will not be acceptable. Machines shall have sufficient storage capacity for aggregate, MSE, mineral filler, water and additives to maintain an adequate supply to the proportioning controls. All indicators shall be in working order prior to commencing mixing and spreading operations. Rotating and reciprocating equipment shall be covered with metal guards.

Machines shall not be operated unless low-flow and no-flow devices and revolution counters are in good working condition and functioning and metal guards are in place. The required indicators shall be visible while walking alongside a machine.

Aggregate feeders shall be connected directly to the drive on the emulsion pump. The drive shaft of the aggregate feeder shall be equipped with a revolution counter reading to the nearest one-tenth of a revolution.

The identifying number of each machine shall be a minimum of 3 inches in height, located on the front and rear of the vehicle.

The microsurfacing mixture shall be spread by means of a spreader box. However, when wheel path depressions have a cross section that is deformed 1/2 inch or more, the individual wheel paths shall first be filled utilizing a wheel path depression (rut) box.

**[Use 602-3.1 and 3.2 as follows if mixer-spreader trucks will be allowed. Do not include the provisions above.]**

**602-3.1 General.** Mixing and spreading equipment shall be approved by the Engineer prior to the start of the Work.

**602-3.2 Mixer-Spreader Trucks.** Mixer-spreader trucks shall be continuous-flow mixers conforming to 302-4.2.2 modified as necessary to be capable of producing and placing microsurfacing. Trucks shall have sufficient storage capacity for aggregate, MSE, mineral filler, water and additives to maintain an adequate supply to the proportioning controls. Aggregate feeders shall be connected directly to the drive on the emulsion pump. The drive shaft of the aggregate feeder shall be equipped with a revolution counter reading to the nearest one-tenth of a revolution.

The identifying number of each machine shall be a minimum of 3 inches in height, located on the front and rear of the vehicle.

The mixer-spreader truck shall not be operated unless low-flow and no-flow devices and revolution counters are in good working condition and functioning and metal guards are in place. The required indicators shall be visible while walking alongside the mixer-spreader truck. All indicators shall be in working order prior to commencing mixing and spreading operations.

The microsurfacing mixture shall be spread by means of a spreader box conforming to 602-3.3. However, when wheel path depressions have a cross section that is deformed 1/2 inch or more, the individual wheel paths shall first be filled utilizing a wheel path depression (rut) box conforming to 602-3.4.

**602-3.3 Spreader Box.** Spreader boxes shall be capable of placing the microsurfacing mixture a minimum of 14 feet wide and preventing loss. Spreader boxes over 8 feet in application width shall have baffles, reversible motor driven augers or other suitable means to insure uniform application on super-elevated sections and shoulder slopes. Spreader boxes shall be maintained in such manner as to prevent chatter (wash boarding) in the finished mat. Spreader boxes shall be clean and free of microsurfacing mixture at the start of each work shift.

Spreader boxes shall have a series of strike-off devices at the rear. The leading strike-off device shall be fabricated of steel, stiff rubber or other suitable material. The number of strike-off devices shall be determined by the Contractor. The first strike-off device shall be designed to maintain close contact with the pavement during the spreading operations, shall obtain the thickness required, and shall be capable of being adjusted to the various pavement cross sections for application of a uniform microsurfacing finished surface. All strike-off devices shall be fabricated of flexible material suitable for the intended use and shall be designed and operated to ensure that a uniform texture is achieved in the finished surface. The final strike-off device shall be cleaned daily and changed if problems with longitudinal scouring occur.

Flexible fabric drags attached to the rear of the spreader box shall not be used.

**602-3.4 Wheel Path Depression (Rut) Box.** Rut boxes shall be designed to have

adjustable strike-off devices to regulate the depth and shall have a width of between 5 and 6 feet. Hydraulic augers, or similar devices, shall be installed and shall be capable of moving the mixed material from the rear to the front of the filling chamber. These devices shall also be capable of guiding the larger aggregate into the center, deeper section of the wheel path depression, and forcing the finer material toward the outer edges of the spreader box.

In areas inaccessible to a rut box, the microsurfacing mixture may be spread by other methods approval by the Engineer.

**602-4 JUST-IN-TIME-TRAINING (JITT).** Attendance at a 2-hour-minimum Just-In-Time-Training (JITT) class shall be mandatory, and shall consist of a formal joint training class on microsurfacing materials, equipment and placement. Microsurfacing placement shall not begin until the Contractor's personnel, the Engineer, and Agency staff have completed the mandatory JITT. The Contractor's personnel involved in microsurfacing quality control, as well as equipment operators and crew involved in the microsurfacing operation, shall attend. The Engineer, and Agency staff involved will also attend. JITT shall be in addition to the preconstruction conference.

The training class shall be conducted at a Project field location convenient for both the Contractor and the Engineer. The JITT class shall be completed not more than 5 days, not including Saturdays, Sundays or holidays, prior to the start of microsurfacing operations. The class shall be held during normal working hours.

The JITT instructor shall be provided by the Contractor. The instructor shall be experienced in the construction methods, materials, and test methods associated with construction of microsurfacing projects. A copy of the course syllabus, handouts, and presentation material shall be submitted in accordance with 2-5.3 and 6-1.2 of Section G. The Contractor and the Engineer shall mutually agree to the course instructor, course content, and training site.

**602-5 PREPARATION FOR MICROSURFACING.** Before placing microsurfacing, the pavement surface shall be cleaned by sweeping, flushing or other means necessary to remove loose particles of paving, dirt, and other extraneous material. When required by local conditions, the roadway surface may be fogged with water ahead of the spreader box. The application of the fog spray may be adjusted to suit temperatures, surface texture, humidity, and dryness of pavement.

Thermoplastic striping and pavement markings, raised pavement markers, and raised pavement marker adhesive shall be removed.

Manhole covers, utility vaults and the surfaces of other utility facilities, survey monuments and benchmarks, shall be covered using a material approved by the Engineer. The material and procedure shall result in no adherence of the microsurfacing to the facility and no stripping of the microsurfacing from the adjacent pavement.

**602-6 PLACEMENT.** Microsurfacing shall be uniformly spread on the existing surfacing within the rate specified without spotting, re-handling, or otherwise shifting the mixture. Placement shall not begin until the Contractor's personnel, the Engineer, and Agency staff have attended the Just-In-Time-Training in conformance with 602-4.

Mixer-spreaders shall be capable of spreading the microsurfacing mixture in one continuous application per work shift. Other than joints at the start and end of each work shift, joints no other joints will be allowed.

Microsurfacing shall not be placed when either the ambient or pavement temperature is below 50°F or during unsuitable weather. Microsurfacing shall not be placed if rain is imminent or if there is the possibility that there will be freezing temperatures within 24 hours.

When wheel path depressions have a cross section that is deformed ½ inch or more, the individual wheel paths shall first be filled utilizing a wheel path depression (rut) box. The depth of the wheel path depression shall be determined after adjacent ridges have been removed. The maximum single application for wheel path depressions shall be 1 inch. Wheel path depressions of depths greater than 1 inch shall require multiple applications in each depression.

Wheel path depression repair shall be constructed with a slight crown to allow for initial compaction by traffic on the microsurfacing.

Freshly filled wheel path depressions shall be compacted by traffic for a minimum of 48 hours before additional lifts of microsurfacing are placed for rut filling purposes or as surface courses.

Microsurfacing shall be spread at the rates of pounds of dry aggregate per square yard shown in Table 602-6 (A).

**TABLE 602-6 (A)**

Microsurfacing Type	Location	Spread Rate(lbs/yd <sup>2</sup> )
Type II	Full Lane Width	18-24
Type III <sup>1</sup>	Full Lane Width	18-24
Type III <sup>2</sup>	Full Lane Width	22-31

Notes:

1. For microsurfacing over asphalt concrete pavement.
2. For microsurfacing over portland cement concrete pavement and concrete bridge decks.

Longitudinal joints shall correspond with the edges of the final traffic lanes. The Engineer may permit other patterns of longitudinal joints if the patterns will not adversely affect the quality of the finished product.

Through traffic lanes shall be spread in full lane widths only. Longitudinal joints common to 2 traffic lanes shall be butt joints with overlaps not to exceed 3 inches. Building paper shall be placed at the transverse joints to avoid double placement of the microsurfacing. Transverse joints shall be straight, clean and have no variation in surface texture from the rest of the mat. Other suitable methods to avoid double placement of the microsurfacing will be allowed. Hand tools shall be available to remove spillage.

The mixture shall be uniform and homogeneous after placing on the surfacing and shall not show separation of the MSE and aggregate after setting. The completed surface shall be of uniform texture and free from ruts, humps, depressions, or irregularities.

Microsurfacing shall be protected from damage by traffic until such time that the mixture has cured sufficiently so that the microsurfacing will not adhere to or be picked up by the tires of vehicles.

Microsurfacing shall be swept approximately 24 hours after placement to remove loosened or shed aggregate particles. Thereafter, microsurfacing shall be swept, when directed by the Engineer, for up to 10 days after placement to remove loosened or shed aggregate particles. Sweeping shall be performed in such a manner that the microsurfacing will not be damaged.

**602-7 TRAFFIC CONTROL.** In addition to the requirements of 7-10 of Section G, the contractor shall comply with the following requirements:

- a) Microsurfacing operations shall cease a minimum of 1 hour before the expiration of the times specified for lane closures in 7-10 of Section G.
- a) Microsurfacing shall only be applied to half the width of the traveled way at a time. The remaining half width shall be kept free of obstructions and open for use by public traffic at all times.
- b) Traffic shall not be allowed on newly placed microsurfacing until it has sufficiently set and bonded.
- d) When the newly completed surface treatment is open to public traffic, traffic shall be controlled by the use of flaggers and a pilot car for a period of 6 hours or for such time as deemed necessary by the Engineer as follows:
  - i) Station a flagger at the beginning of each newly completed section, to stop oncoming traffic preparatory to piloting operations. Keep the flaggers on duty during the entire control period.
  - ii) Move traffic control as described above, ahead progressively as the newly completed surface is open to traffic.

**602-8 TEST STRIP.** The Contractor shall construct a minimum of 2 test strips for evaluation by the Engineer. Each test strip shall be 300 to 500 feet long, a minimum of 1500 square yards in size, shall replicate the full production placement of microsurfacing, and shall consist of the application courses specified. Each test strip shall be constructed at the same time of day that the full production of microsurfacing will be placed. Each test strip may be constructed in 2 days when multiple course applications are specified. If the microsurfacing is to be placed on a scrub seal or chip seal, the test strips must be placed over the underlying seal coat. The Contractor shall propose adjustments in the mixture to compensate for sudden changes in weather conditions.

The Engineer will evaluate each completed test strip for 48 hours after traffic has been allowed on it to determine if the mix design and placement procedure are acceptable. If the mix design or the placement procedure is determined by the Engineer to be unacceptable, the test strips will be rejected, the Contractor shall make modifications, and new test strips shall be constructed. The new test strips will be evaluated by the Engineer as previously specified. Rejected test strips shall be removed if so directed by the Engineer.

**602-9 MEASUREMENT.** Microsurfacing will be measured by the combined weight of the tons of dry aggregate, excluding mineral filler, and the tons of MSE used in the microsurfacing mixture placed and accepted by the Engineer. The weight of added water, additives, and mineral filler used in the microsurfacing mixture will not be included in the weight measured for payment. No deduction will be made for water in the aggregate and MSE.

The Contractor shall furnish the Engineer with a written plan covering the intended method of delivery, storage and measurement of dry aggregate and MSE. The Contractor shall furnish the Engineer with licensed weighmaster tickets for each load of dry aggregate and MSE delivered to the stockpile site or directly to each mixer-spreader machine.

The Contractor shall furnish and have in place at the stockpile site operable portable scales with a current seal affixed by the County of Los Angeles Agricultural Commissioner/Weights and Measures. Upon completion of the Work, the Contractor shall determine the net weight of the remaining dry aggregate and MSE in the presence of the Engineer.

**602-10 PAYMENT.** Payment for microsurfacing will be made at the Contract Unit Price per ton for "MICROSURFACING (TYPE II)" and "MICROSURFACING (TYPE III)." The Contract Unit Price per ton shall include performing all the work involved in placing microsurfacing, complete in place, including testing for and furnishing mix design(s), test strips, just-in-time-training, portable scales, cleaning the surface, furnishing added water, additives, and mineral filler, protecting the microsurfacing until it has set, repair of early distress, and sweeping the microsurfacing.

No payment will be made for test strips which have been rejected or for removal of rejected test strips.

C:\Special Provisions\Scrub-Micro (2-6-13)

## PART 6

### FIBERIZED EMULSION

1. Submittals: Submit copies of product certificates signed by the material producer and contractor certifying that each material item complies with or exceeds specified requirements. Provide the mix design for review and approval.
2. Products:
  - a. General: Use locally available products which exhibit a satisfactory record of previous installations. All tests necessary to locate an acceptable source of suitable products shall be provided by the Contractor. Test results by a commercial testing laboratory shall be furnished to the City at least 20 days before the delivery of products to the site.
  - b. Fiberized Emulsion: CSS-1EP
    - Boiling point: 212°F
    - Appearance: Brown to black liquid
    - Non-flammable
    - Density: 8.3-8.5 lbs/gal
    - SG: 1.01
    - Slightly soluble
    - Odor: Asphalt-like

Material for micro surfacing shall conform to the following requirements:

TEST	MIN	MAX	RESULT
ODSR, 76°C, G*/SIN d, kPa	1.0	-----	<b>1.0</b> <b>7</b>
Saybolt Viscosity, 50°C, SSF	15	150	<b>127</b>
Sieve Test, %	-----	0.1	<b>0</b>
Residue by Evaporation, 163 deg C	62	-----	<b>63.</b> <b>3</b>
MSCR, 64°C, % recovery at 3.2 kPa	75	-----	<b>96.</b> <b>6</b>
MSCR, Jnr @ 3.2kPa, 64 C	-----	0.5	<b>.042</b> <b>6</b>

The polymer shall be milled or blended into the base asphalt solution prior to the emulsification process.

- c. Fiber: The fiber used in the fiberized micro surfacing shall be RoadChem Fiber 1 or equivalent chemical resistant glass fiber meeting the following specifications. It shall be cut to 3/8 +/- 1/8 inch in length by an automated fiber cutter system installed on truck prior to adding to the PMCQS-1h emulsion. The fiber shall be added at a rate of 0.15 % - 0.40 % by dry weight of aggregate for bottom lifts and 0.05 % - 0.30 % by dry weight of aggregate for surface lifts. The fiber shall meet the following requirements:

Alkalai and Acid Resistant Glass Fiber					
Linear	Linear	Moisture	Specific	Softening	Tensile
Weight of	Weight of	Content(%)	Gravity	Point (°C)	Strength
Roving (tex)	Strand (tex)	ISO 3344			(MPa)
ISO 1889	ISO 1889				
2500 min.	82min.	0.35 max.	2.68 g/cm <sup>3</sup>	860 min.	1700 min.
4800 min.	100 min.				

## PART 7

### COLOR ADDITIVE FOR MICROSURFACING EMULSION

**Carbon Black.** The carbon black must be compatible with the emulsion system, polymers and additives being used.

Specification	Tolerances
Total Solids	40-44
% Black by Weight	35-37
Type Black	Medium Furnace Color
Type Dispersing	Non-ionic

**Content:** Carbon Black shall be added at 0.8 to 1% of the finished emulsion.

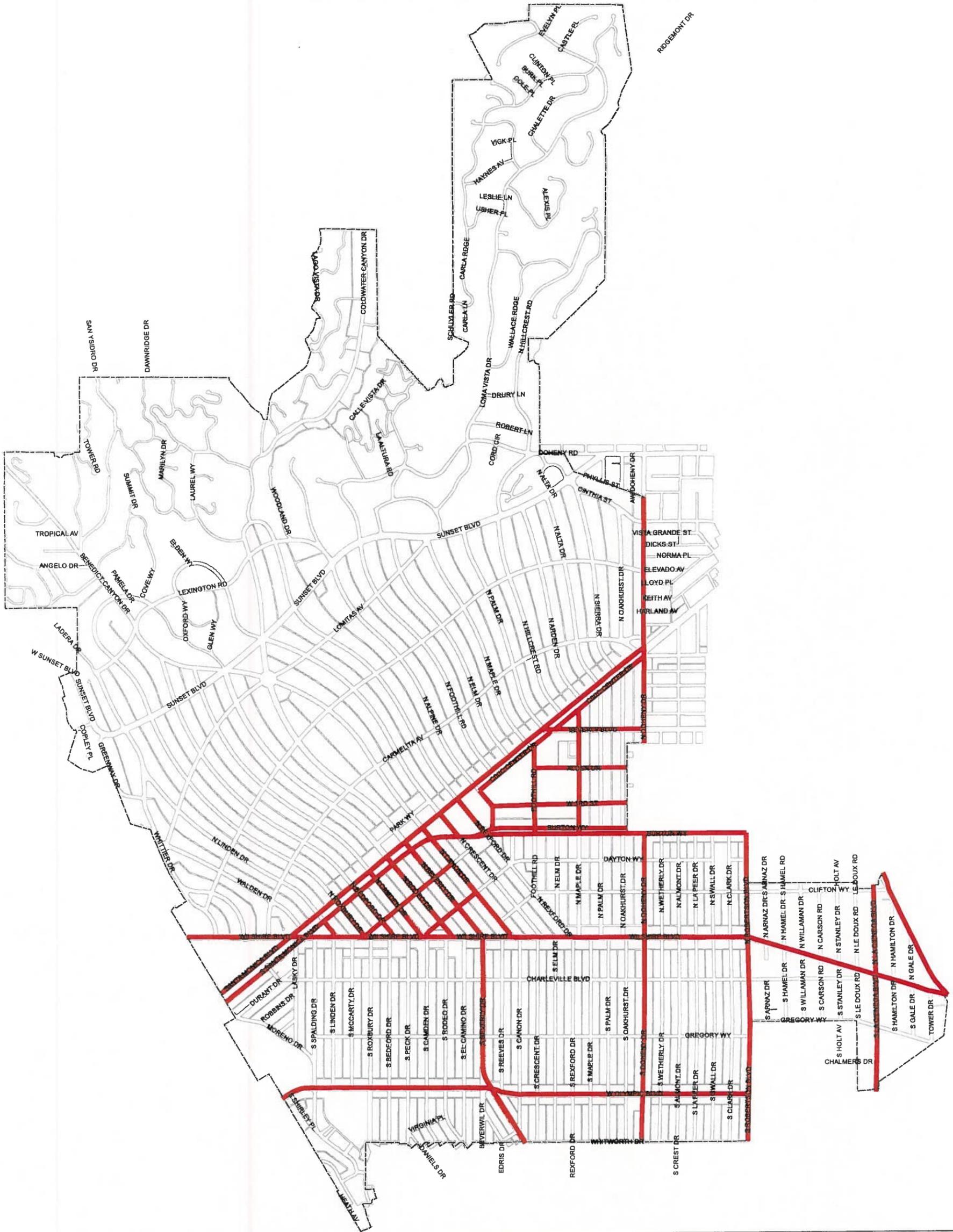
**Installation:** Carbon black shall be delivered to the mixer in the relative proportions required by the specification.

## **APPENDIX C**

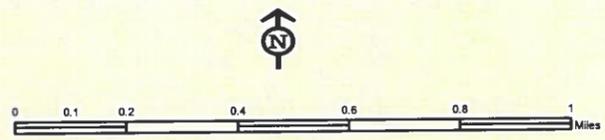
# **COBH Approved Heavy Haul Truck Route Map**



# Approved Heavy Haul Routes - City of Beverly Hills, California



 Heavy Haul Route  
 City Boundry



This map is for informational purposes. The City of Beverly Hills makes no representations or warranties of any kind with respect to the accuracy of the information or data furnished herein.

Map produced by: City of Beverly Hills - Information Technology - GIS  
 455 N. Rexford Dr. Beverly Hills, CA 90210  
 March 2009

Sterling Codifiers, Inc.

**7-2-203: STREETS DESIGNATED FOR HEAVY VEHICLE USAGE:** 

The following streets are designated for use by vehicles exceeding a maximum gross weight, including the vehicle and its load, of three (3) tons:

Alden Drive;

Bedford Drive from Wilshire Boulevard to Santa Monica Boulevard (north);

Beverly Boulevard;

Beverly Drive from the south city limits to Santa Monica Boulevard (north);

Brighton Way from Canon Drive to Wilshire Boulevard;

Burton Way;

Camden Drive from Wilshire Boulevard to Santa Monica Boulevard (north);

Canon Drive from Wilshire Boulevard to Santa Monica Boulevard (north);

Civic Center Drive from Burton Way to Santa Monica Boulevard (south);

Crescent Drive between the north and south roadways of Santa Monica Boulevard;

Dayton Way from Canon Drive to Wilshire Boulevard;

Doheny Drive;

Foothill Road from Burton Way to Santa Monica Boulevard (south);

La Cienega Boulevard;

Linden Drive from Wilshire Boulevard to Santa Monica Boulevard (south);

Maple Drive from Burton Way to Santa Monica Boulevard (south);

Olympic Boulevard;

Rexford Drive from Santa Monica Boulevard (north) to Burton Way;

Robertson Boulevard;

Rodeo Drive from Wilshire Boulevard to Santa Monica Boulevard (north);

Roxbury Drive from Wilshire Boulevard to Santa Monica Boulevard (north);

San Vicente Boulevard;

Santa Monica Boulevard (north and south roadways);

Third Street;

Wilshire Boulevard. (1962 Code § 3-6.1306)

## **APPENDIX D**

### **Street and Alley Lists**

FY15/16 STREET RESURFACING LIST

STREET NAME	FROM	TO	PCI	PAVEMENT REHABILITATION STRATEGY	SIDE NOTES	AC AREA (SF)	PCC AREA (SF)
Alpine Dr.	Burton Wy.	Dayton Wy.	44	2" grind, crack seal, overlay, striping	Leave delineators alone	16,450	
Alta Dr.	NSM	Sunset Blvd.	68	spot repairs, eFlex, & striping		119,000	
Angelo Dr.	Benedict Canyon Dr.	City limits	42	2" grind, crack seal, leveling course or micro-mill, GlaspPave 50, overlay 3" taper to 2", striping	Existing is AC over PCC. Grind AC 2" or until concrete.	64,000	
Bridle Ln.	Ridgedale Dr.	Angelo Dr.	36	2" grind, spot repairs, crack seal, overlay, striping		20,300	
Chevy Chase Dr.	Angelo Dr.	Benedict Canyon Dr.	66	spot repairs, MSE, & striping		33,930	
Civic Center Dr.	3rd St.	Burton Wy.	77	1" micro-mill, crack seal, 1" thin overlay, R/R curb & gutter (approx. 325 LF), spot repairs, striping	Check with SCE if their vault is sucking dirt.	14,400	
Civic Center Dr.	Civic Center Dr.	3rd St.	55	1" micro-mill, crack seal, 1" thin overlay, striping		13,320	
Civic Center Dr.	Palm Dr.	Doheny Dr.	46	2" grind, crack seal, overlay, striping		35,250	
Civic Center Dr. (exclude diagonal parking area)	Civic Center Dr.	Beverly Blvd.	40	2" grind, crack seal, 2" ARHM overlay, striping, Qwick Kurb elements	<b>Saturday work</b>	65,450	
Coldwater Canyon Dr.	Beverly Dr.	Monte Cielo Dr.	31	North bound repairs only: R/R curb & gutter (approx. 400 LF), PCC pavement (72'x14'), dowel between C&G, new pavement and existing pavement	Maintain 1 lane of thru traffic in each direction. Street width is 38'.		1008
Crescent Dr. (loop)	Lexington Rd.	Lexington Rd.	62	spot repairs, MSE, & striping	consult with tree inspector for root cutting	54,000	
Della Dr.	Summit Dr.	cul-de-sac	42	3" grind, R/R 60 SF C&G, crack seal, leveling course or micro-mill, GlaspPave 50, overlay, striping		7,500	
Elden Wy.	Crescent Dr.	cul-de-sac	81	spot repairs, MSE & striping		14,100	
Elevado Ave.	Elm Dr.	Palm Dr.	50	2" grind, crack seal, leveling course or micro-mill, GlaspPave 50, overlay, striping		47,040	
Foothill Rd.	Doheny Rd.	cul-de-sac	28	2" grind, crack seal, spot repair, overlay, striping		11,400	
Hanover Dr.	Ridgedale Dr.	City limits	38	2" grind, crack seal, overlay, striping		18,270	
Lasky Dr.	S. Santa Monica Blvd.	Charleville Blvd.	36	3" grind, leveling course or micro-mill, crack seal, GlasPave 50, 3" overlay, striping		30,000	
Laurel Wy.	Laurel Ln.	Pine Dr.	47	2" grind, crack seal, overlay, striping		39,000	
Le Doux Rd.	Wilshire Blvd.	Gregory Wy.	49	2" grind, crack seal, overlay, striping		30,960	
Moreno Dr.	Lasky Dr.	Spalding Dr.	41	3" grind, crack seal, leveling course or micro-mill, GlasPave 50, overlay, striping	Must be done in summer. Coordinate with BHHS.	17,500	
Palm Dr.	Civic Center Dr.	Beverly Blvd.	41	3" grind, crack seal, leveling course or micro-mill, GlasPave 50, 3" overlay, striping		22,400	
Reeves Dr.	Charleville Blvd.	Olympic Blvd.	58	1" micro-mill, crack seal, 1" thin overlay, striping, Qwick Kurb elements		60,000	
Reeves Dr.	Wilshire Blvd.	Charleville Blvd.	49	2" grind, crack seal, overlay, approx. 400 to 500 LF R/R C&G, gutter & dowels in front of 2 driveways, 1 driveway approach,		22,200	
Sutton Wy.	cul-de-sac	cul-de-sac	58	2" grind AC & PCC, spot repairs, leveling course or micro-mill, GlasPave 50, 3" overlay with taper to 2", & striping		28,000	8000
Wallace Ridge	Loma Vista Dr.	Hillcrest Rd.	46	1" micro-mill, crack seal, 1" thin overlay, striping		27,000	

FY15-16 ALLEY RESURFACING LIST

Street	From Street	To Street	Agency FunCL	PaveType	Pavement Width (Ft)	Pavement Length (Ft)	Area (ft2)	Pavement Condition Index (PCI)
ALLEY W/OF OAKHURST DR	CHARLEVILLE BLV	WILSHIRE BLVD	Alley	ACP	15	537	8,051	9
ALLEY W/OF ALMONT DR	WHITWORTH DR	OLYMPIC BLVD	Alley	ACP	12	650	7,795	14
ALLEY W/OF ELM DR	GREGORY WAY	CHARLEVILLE BLV	Alley	ACP	11	1,006	11,070	16
ALLEY W/OF ELM DR	CHARLEVILLE BLV	WILSHIRE BLVD	Alley	ACP	12	540	6,484	16
ALLEY W/OF RODEO DR	CARMELITA AVE	ELEVADO AVE	Alley	ACP	17	1,162	19,748	16
ALLEY W/OF PALM DR	CHARLEVILLE BLV	WILSHIRE BLVD	Alley	ACP	15	539	8,090	17
ALLEY N/OF OLYMPIC BLVD	CLARK DR	ROBERTSON BLVD	Alley	ACP	13	162	2,100	18
ALLEY W/OF PALM DR	WHITWORTH DR	OLYMPIC BLVD	Alley	ACP	11	655	7,204	19
ALLEY W/OF OAKHURST DR	GREGORY WAY	CHARLEVILLE BLV	Alley	ACP	12	1,006	12,069	21
ALLEY W/OF LINDEN DR	CHARLEVILLE BLV	WILSHIRE BLVD	Alley	ACP	16	566	9,056	23
ALLEY S/OF OLYMPIC BLVD	CLARK DR	ROBERTSON BLVD	Alley	ACP	11	164	1,799	24
ALLEY W/OF SWALL DR	GREGORY WAY	CHARLEVILLE BLV	Alley	ACP	13	1,007	13,096	24
ALLEY W/OF ROBERTSON BLVD	WILSHIRE BLVD	CLIFTON WAY	Alley	ACP	19	591	11,231	25
ALLEY W/OF PALM DR	OLYMPIC BLVD	GREGORY WAY	Alley	ACP	12	854	10,248	25
ALLEY W/OF LAPEER DR	CHARLEVILLE BLV	WILSHIRE BLVD	Alley	ACP	12	543	6,513	28
ALLEY W/OF OAKHURST DR	OLYMPIC BLVD	GREGORY WAY	Alley	ACP	13	855	11,110	28
ALLEY W/OF RODEO DR	ELEVADO AVE	LOMITAS AVE	Alley	ACP	18	1,375	24,754	29
ALLEY W/OF ELM DR	OLYMPIC BLVD	GREGORY WAY	Alley	ACP	13	854	11,096	29
ALLEY W/OF SPALDING DR	MORENO DR	CHARLEVILLE BLV	Alley	ACP	19	1,240	23,558	29
ALLEY W/OF PALM DR	ALDEN DR	BEVERLY BLVD	Alley	ACP	13	686	8,916	29
ALLEY W/OF MAPLE DR	OLYMPIC BLVD	GREGORY WAY	Alley	ACP	9	853	7,680	29
ALLEY W/OF DOHENY DR	CARMELITA AVE	ELEVADO AVE	Alley	ACP	17	1,209	20,557	30
ALLEY W/OF LAPEER DR	WHITWORTH DR	OLYMPIC BLVD	Alley	ACP	12	648	7,777	30
ALLEY W/OF CLARK DR	WHITWORTH DR	OLYMPIC BLVD	Alley	ACP	11	649	7,136	30
ALLEY W/OF CAMDEN DR	OLYMPIC BLVD	GREGORY WAY	Alley	ACP	13	738	9,588	31
ALLEY W/OF DOHENY DR	WILSHIRE BLVD	CLIFTON WAY	Alley	ACP	15	603	9,047	31
ALLEY S/OF BURTON WAY	WETHERLY DR	ALMONT DR	Alley	ACP	14	312	4,368	31
ALLEY W/OF ALMONT DR	GREGORY WAY	CHARLEVILLE BLV	Alley	ACP	13	1,012	13,152	33
ALLEY W/OF REXFORD DR	WILSHIRE BLVD	CLIFTON WAY	Alley	ACP	21	848	17,798	33
ALLEY W/OF SWALL DR	CHARLEVILLE BLV	WILSHIRE BLVD	Alley	ACP	10	545	5,451	33
ALLEY W/OF PALM DR	GREGORY WAY	CHARLEVILLE BLV	Alley	ACP	13	1,006	13,078	33
ALLEY W/OF CRESCENT DR	WHITWORTH	OLYMPIC BLVD	Alley	ACP	24	659	15,804	33
ALLEY W/OF CRESCENT DR	BRIGHTON WAY	SANTA MONICA BLVD SOUTH	Alley	ACP	19	445	8,452	34
ALLEY W/OF PALM DR	THIRD STREET	ALDEN DR	Alley	ACP	16	638	10,210	34
ALLEY W/OF PALM DR	DAYTON WAY	BURTON WAY	Alley	ACP	19	462	8,776	35

FY15-16 ADDITIONAL ALLEYS LIST

\*\*\*In the event that there is available funding, the alleys listed below are eligible for resurfacing. Any added alleys will be selected by the Engineer and Inspector.

Street	From Street	To Street	Agency FunCL	PaveType	Pavement Width (Ft)	Pavement Length (Ft)	Area (ft2)	Pavement Condition Index (PCI)
ALLEY N/OF WILSHIRE BLVD	WETHERLY DR	ALMONT DR	Alley	ACP	20	297	5,940	36
ALLEY S/OF OLYMPIC BLVD	ALMONT DR	LAPEER DR	Alley	ACP	16	306	4,896	36
ALLEY N/OF OLYMPIC BLVD	SPALDING DR	LINDEN DR	Alley	ACP	14	323	4,522	36
ALLEY W/ OF ROBERTSON BLVD	DAYTON WAY	BURTON	Alley		13	270	3,510	36
ALLEY W/OF REXFORD DR	CHARLEVILLE BLV	WILSHIRE BLVD	Alley	ACP	17	541	9,193	36
ALLEY N/OF OLYMPIC BLVD	MCCARTY DR	ROXBURY DR	Alley	ACP	14	334	4,669	37
ALLEY W/OF MCCARTY DR	OLYMPIC BLVD	GREGORY WAY	Alley	ACP	13	735	9,558	37
ALLEY W/OF REEVES DR	CHARLEVILLE BLV	WILSHIRE BLVD	Alley	ACP	16	529	8,460	37
ALLEY W/OF DOHENY DR	ELEVADO AVE	CINTHIA ST	Alley	ACP	15	905	13,576	37
ALLEY W/OF ALMONT DR	CLIFTON WAY	DAYTON WAY	Alley	ACP	12	561	6,732	38
ALLEY W/OF WETHERLY DR	CHARLEVILLE BLV	WILSHIRE BLVD	Alley	ACP	15	541	8,108	38
ALLEY W/OF RODEO DR	PARK WAY	CARMELITA AVE	Alley	ACP	18	1,012	18,208	38
ALLEY W/OF LAPEER DR	DAYTON WAY	BURTON WAY	Alley	ACP	15	316	4,738	38
ALLEY W/OF OAKHURST DR	WILSHIRE BLVD	CLIFTON WAY	Alley	ACP	16	605	9,680	38
ALLEY W/OF BEDFORD DR	OLYMPIC BLVD	GREGORY WAY	Alley	ACP	14	737	10,320	39
ALLEY W/OF ROBERTSON BLVD	WHITWORTH DR	OLYMPIC BLVD	Alley	ACP	14	833	11,664	39
ALLEY S/OF OLYMPIC BLVD	CRESCENT DR	ELM DR	Alley	ACP	14	313	4,375	39
ALLEY S/OF OLYMPIC BLVD	CANON DR	CRESCENT DR	Alley	ACP	13	318	4,134	39
ALLEY S/OF OLYMPIC BLVD	WETHERLY DR	ALMONT DR	Alley	ACP	13	311	4,037	39
ALLEY W/OF MAPLE DR	WHITWORTH DR	OLYMPIC BLVD	Alley	ACP	22	655	14,419	40
ALLEY W/OF PALM DR	CLIFTON WAY	DAYTON WAY	Alley	ACP	17	564	9,580	40
ALLEY S/OF OLYMPIC BLVD	LAPEER DR	SWALL DR	Alley	ACP	13	315	4,089	40
ALLEY W/OF OAKHURST DR	BEVERLY BLVD	CIVIC CENTER DR	Alley	ACP	18	826	14,865	41
ALLEY S/OF OLYMPIC BLVD	ELM DR	REXFORD DR	Alley	ACP	14	317	4,438	41
ALLEY W/OF LAPEER DR	WILSHIRE BLVD	CLIFTON WAY	Alley	ACP	20	599	11,980	41
ALLEY W/OF REXFORD DR	OLYMPIC BLVD	GREGORY WAY	Alley	ACP	12	853	10,234	41
ALLEY W/OF RODEO DR	CHARLEVILLE BLV	WILSHIRE BLVD	Alley	ACP	14	559	7,823	42
ALLEY N/OF OLYMPIC BLVD	LAPEER DR	SWALL DR	Alley	ACP	15	313	4,695	42
ALLEY W/OF SPALDING DR	CHARLEVILLE BLV	SPALDING DR	Alley	ACP	17	579	9,845	42
ALLEY W/OF REXFORD DR	CARMELITA AVE	ELEVADO AVE	Alley	ACP	19	1,410	26,795	43
ALLEY W/OF CAMDEN DR	BRIGHTON WAY	SANTA MONICA BLVD SOUTH	Alley	ACP	18	662	11,917	43
ALLEY W/OF RODEO DR	BRIGHTON WAY	SANTA MONICA BLVD SOUTH	Alley	ACP	19	662	12,585	43
ALLEY W/OF DOHENY DR	CLIFTON WAY	DAYTON WAY	Alley	ACP	14	563	7,884	43

FY15-16 ADDITIONAL ALLEYS LIST

Street	From Street	To Street	Agency FunCL	PaveType	Pavement Width (Ft)	Pavement Length (Ft)	Area (ft2)	Pavement Condition Index (PCI)
ALLEY W/OF CLARK DR	OLYMPIC BLVD	GREGORY WAY	Alley	ACP	17	853	14,505	43
ALLEY W/OF WETHERLY DR	GREGORY WAY	CHARLEVILLE BLV	Alley	ACP	18	1,011	18,192	43
ALLEY W/OF LINDEN DR	OLYMPIC BLVD	GREGORY WAY	Alley	ACP	17	734	12,482	44
ALLEY W/OF REXFORD DR	WHITWORTH DR	OLYMPIC BLVD	Alley	ACP	13	656	8,531	44
ALLEY S/OF OLYMPIC BLVD	PALM DR	OAKHURST DR	Alley	ACP	14	316	4,424	44
ALLEY W/OF OAKHURST DR	DAYTON WAY	BURTON WAY	Alley	ACP	18	461	8,300	44
ALLEY W/OF SWALL DR	WILSHIRE BLVD	CLIFTON WAY	Alley	ACP	18	598	10,764	44
ALLEY W/OF OAKHURST DR	WHITWORTH DR	OLYMPIC BLVD	Alley	ACP	15	655	9,820	44
ALLEY W/OF DOHENY DR	DAYTON WAY	BURTON WAY	Alley	ACP	17	461	7,835	44
ALLEY S/OF BURTON WAY	ALMONT DR	LAPEER DR	Alley	ACP	14	298	4,165	44
ALLEY W/OF PALM DR	BEVERLY BLVD	CIVIC CENTER DR	Alley	ACP	15	513	7,697	44
ALLEY N/OF OLYMPIC BLVD	LINDEN DR	MCCARTY DR	Alley	ACP	18	334	6,003	44
ALLEY W/OF WETHERLY DR	OLYMPIC BLVD	GREGORY WAY	Alley	ACP	17	1,031	17,520	44
ALLEY W/OF OAKHURST DR	ALDEN DR	BEVERLY BLVD	Alley	ACP	19	685	13,023	44
ALLEY W/OF RODEO DR	LOMITAS AVE	SUNSET BLVD	Alley	ACP	16	663	10,602	45
ALLEY W/OF ELM DR	DAYTON WAY	BURTON WAY	Alley	ACP	17	458	7,782	45
ALLEY S/OF OLYMPIC BLVD	CITY LIMITS	SHIRLEY PL	Alley	ACP	18	195	3,501	45
ALLEY W/OF ROBERTSON BLVD	DAYTON WAY	BURTON WAY	Alley	ACP	13	315	4,095	45
ALLEY W/OF ELM DR	CLIFTON WAY	DAYTON WAY	Alley	ACP	20	569	11,375	46
ALLEY S/OF WILSHIRE BLVD	CLARK DR	ROBERTSON BLVD	Alley	ACP	14	303	4,244	46
ALLEY W/OF WETHERLY DR	WILSHIRE BLVD	CLIFTON WAY	Alley	ACP	14	601	8,414	46
ALLEY N/OF WILSHIRE BLVD	REXFORD DR	MAPLE DR	Alley	ACP	20	304	6,070	46
ALLEY W/OF OAKHURST DR	THIRD STREET	ALDEN DR	Alley	ACP	27	629	16,996	47
ALLEY W/OF DOHENY DR	BEVERLY BLVD	CIVIC CENTER DR	Alley	ACP	20	1,143	22,863	47
ALLEY S/OF OLYMPIC BLVD	EL CAMINO	BEVERWIL DR	Alley	ACP	12	329	3,949	47
ALLEY W/OF REXFORD DR	CLIFTON WAY	DAYTON WAY	Alley	ACP	19	656	12,455	47
ALLEY W/OF DOHENY DR	CITY LIMITS	BEVERLY BLVD	Alley	ACP	15	251	3,759	47
ALLEY W/OF REEVES DR	GREGORY WAY	CHARLEVILLE BLV	Alley	ACP	18	1,009	18,153	47
ALLEY S/OF LOMITAS AVE	BEVERLY DR	CANON DR	Alley	ACP	16	402	6,433	48
ALLEY W/OF ALMONT DR	CHARLEVILLE BLV	WILSHIRE BLVD	Alley	ACP	11	540	5,935	48
ALLEY W/OF SWALL DR	CLIFTON WAY	DAYTON WAY	Alley	ACP	16	561	8,970	48
ALLEY S/OF WILSHIRE BLVD	ALMONT DR	LAPEER DR	Alley	ACP	17	302	5,126	48
ALLEY N/OF OLYMPIC BLVD	PECK DR	CAMDEN DR	Alley	ACP	15	330	4,943	49
ALLEY W/OF ROBERTSON BLVD	OLYMPIC BLVD	GREGORY WAY	Alley	ACP	14	1,028	14,395	49
ALLEY W/OF REXFORD DR	SUNSET BLVD	LEXINGTON DR	Alley	ACP	21	1,404	29,482	49