

CONTRACT MA-080-20011397

FOR

**ASPHALT CONCRETE PAVEMENT MAINTENANCE
SERVICES**

BETWEEN

OC PUBLIC WORKS

AND

HARDY & HARPER, INC.



CONTRACT MA-080-20011397
FOR
ASPHALT CONCRETE PAVEMENT MAINTENANCE SERVICES
WITH
HARDY & HARPER, INC.

Amendment No. 1: Amend language to include Orange County Flood Control District

THIS Contract MA-080-20011397 for Asphalt Concrete Pavement Maintenance Services (hereinafter referred to as "Contract") is made and entered into as of the date fully executed by and between the County of Orange, a political subdivision of the State of California (hereinafter referred to as "County"), Orange County Flood Control District, a body corporate and politic (hereinafter referred to as "District"), and Hardy & Harper, Inc., with a place of business at 32 Rancho Circle, Lake Forest, CA 92630 (hereinafter referred to as "Contractor") with County, District and Contractor sometimes referred to as "Party" or collectively as "Parties."

ATTACHMENTS

THIS Contract is comprised of this document and the following Attachments, which are attached hereto and incorporated by reference into this Contract:

Attachment A – Scope of Work

Attachment B – Payment/Compensation

RECITALS

WHEREAS, Contractor and County are entering into this Contract for Asphalt Concrete Pavement Maintenance Services under a Usage Contract; and,

WHEREAS, County solicited Contract for Asphalt Concrete Pavement Maintenance Services as set forth herein, and Contractor represented that it is qualified to provide Asphalt Concrete Pavement Maintenance Services to the County as further set forth here; and,

WHEREAS, Contractor agrees to provide Asphalt Concrete Pavement Maintenance Services to the County as further set forth in the Scope of Work, attached hereto as Attachment A; and,

WHEREAS, County agrees to pay Contractor based on the schedule of fees set forth in Payment/Compensation, attached hereto as Attachment B; and,

WHEREAS, the District relies on County staff to carry out its duties pursuant to the Orange County Flood Control District Act, Water Code App. §§ 36-1 et seq., and County staff may request Contractor to perform services under this Contract on behalf of District; and,

NOW, THEREFORE, the Parties mutually agree as follows:

ARTICLES

General Terms and Conditions:

A. **Governing Law and Venue:** This Contract has been negotiated and executed in the state of California and shall be governed by and construed under the laws of the state of California. In the event of any legal action to enforce or interpret this Contract, the sole and exclusive venue shall

be a court of competent jurisdiction located in Orange County, California, and the parties hereto agree to and do hereby submit to the jurisdiction of such court, notwithstanding Code of Civil Procedure Section 394. Furthermore, the parties specifically agree to waive any and all rights to request that an action be transferred for adjudication to another county.

- B. **Entire Contract:** This Contract contains the entire Contract between the parties with respect to the matters herein, and there are no restrictions, promises, warranties or undertakings other than those set forth herein or referred to herein. No exceptions, alternatives, substitutes or revisions are valid or binding on County unless authorized by County in writing. Electronic acceptance of any additional terms, conditions or supplemental Contracts by any County employee or agent, including but not limited to installers of software, shall not be valid or binding on County unless accepted in writing by County's Procurement Officer or designee.
- C. **Amendments:** No alteration or variation of the terms of this Contract shall be valid unless made in writing and signed by the parties; no oral understanding or agreement not incorporated herein shall be binding on either of the parties; and no exceptions, alternatives, substitutes or revisions are valid or binding on County unless authorized by County in writing.
- D. **Taxes:** Unless otherwise provided herein or by law, price quoted does not include California state sales or use tax. Out-of-state Contractors shall indicate California Board of Equalization permit number and sales permit number on invoices, if California sales tax is added and collectable. If no permit numbers are shown, sales tax will be deducted from payment. The Auditor-Controller will then pay use tax directly to the State of California in lieu of payment of sales tax to the Contractor.
- E. **Delivery:** Time of delivery of goods or services is of the essence in this Contract. County reserves the right to refuse any goods or services and to cancel all or any part of the goods not conforming to applicable specifications, drawings, samples or descriptions or services that do not conform to the prescribed statement of work. Acceptance of any part of the order for goods shall not bind County to accept future shipments nor deprive it of the right to return goods already accepted at Contractor's expense. Over shipments and under shipments of goods shall be only as agreed to in writing by County. Delivery shall not be deemed to be complete until all goods or services have actually been received and accepted in writing by County.
- F. **Acceptance Payment:** Unless otherwise agreed to in writing by County; 1) acceptance shall not be deemed complete unless in writing and until all the goods/services have actually been received, inspected, and tested to the satisfaction of County, and 2) payment shall be made in arrears after satisfactory acceptance.
- G. **Warranty:** Contractor expressly warrants that the goods covered by this Contract are 1) free of liens or encumbrances, 2) merchantable and good for the ordinary purposes for which they are used, and 3) fit for the particular purpose for which they are intended. Acceptance of this order shall constitute an agreement upon Contractor's part to indemnify, defend and hold County and its indemnities as identified in **article "Z"** below, and as more fully described in **article "Z,"** harmless from liability, loss, damage and expense, including reasonable counsel fees, incurred or sustained by County by reason of the failure of the goods/services to conform to such warranties, faulty work performance, negligent or unlawful acts, and non-compliance with any applicable state or federal codes, ordinances, orders, or statutes, including the Occupational Safety and Health Act (OSHA) and the California Industrial Safety Act. Such remedies shall be in addition to any other remedies provided by law.
- H. **Patent/Copyright Materials/Proprietary Infringement:** Unless otherwise expressly provided in this Contract, Contractor shall be solely responsible for clearing the right to use any patented or

copyrighted materials in the performance of this Contract. Contractor warrants that any software as modified through services provided hereunder will not infringe upon or violate any patent, proprietary right, or trade secret right of any third party. Contractor agrees that, in accordance with the more specific requirement contained in **article "Z"** below, it shall indemnify, defend and hold County and County Indemnitees harmless from any and all such claims and be responsible for payment of all costs, damages, penalties and expenses related to or arising from such claim(s), including, costs and expenses but not including attorney's fees.

- I. **Assignment:** The terms, covenants, and conditions contained herein shall apply to and bind the heirs, successors, executors, administrators and assigns of the parties. Furthermore, neither the performance of this Contract nor any portion thereof may be assigned by Contractor without the express written consent of County. Any attempt by Contractor to assign the performance or any portion thereof of this Contract without the express written consent of County shall be invalid and shall constitute a breach of this Contract.
- J. **Non-Discrimination:** In the performance of this Contract, Contractor agrees that it will comply with the requirements of Section 1735 of the California Labor Code and not engage nor permit any subcontractors to engage in discrimination in employment of persons because of the race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, or sex of such persons. Contractor acknowledges that a violation of this provision shall subject Contractor to penalties pursuant to Section 1741 of the California Labor Code.
- K. **Termination:** In addition to any other remedies or rights it may have by law, County has the right to immediately terminate this Contract without penalty for cause or after 30 days' written notice without cause, unless otherwise specified. Cause shall be defined as any material breach of contract, any misrepresentation or fraud on the part of the Contractor. Exercise by County of its right to terminate the Contract shall relieve County of all further obligation.
- L. **Consent to Breach Not Waiver:** No term or provision of this Contract shall be deemed waived and no breach excused, unless such waiver or consent shall be in writing and signed by the party claimed to have waived or consented. Any consent by any party to, or waiver of, a breach by the other, whether express or implied, shall not constitute consent to, waiver of, or excuse for any other different or subsequent breach.
- M. **Independent Contractor:** Contractor shall be considered an independent contractor and neither Contractor, its employees, nor anyone working under Contractor shall be considered an agent or an employee of County. Neither Contractor, its employees nor anyone working under Contractor shall qualify for workers' compensation or other fringe benefits of any kind through County.
- N. **Performance Warranty:** Contractor shall warrant all work under this Contract, taking necessary steps and precautions to perform the work to County's satisfaction. Contractor shall be responsible for the professional quality, technical assurance, timely completion and coordination of all documentation and other goods/services furnished by the Contractor under this Contract. Contractor shall perform all work diligently, carefully, and in a good and workmanlike manner; shall furnish all necessary labor, supervision, machinery, equipment, materials, and supplies, shall at its sole expense obtain and maintain all permits and licenses required by public authorities, including those of County required in its governmental capacity, in connection with performance of the work. If permitted to subcontract, Contractor shall be fully responsible for all work performed by subcontractors.

Amendment No. 1: Amend language to update to current requirements and include Orange County Flood Control District

- O. **Insurance Requirements:** Prior to the provision of services under this Contract, the Contractor agrees to carry all required insurance at Contractor's expense, including all endorsements required herein, necessary to satisfy the County that the insurance provisions of this Contract have been complied with. Contractor agrees to keep such insurance coverage current, provide Certificates of Insurance, and endorsements to the County during the entire term of this Contract. ~~In addition, all subcontractors performing work on behalf of Contractor pursuant to this Contract shall obtain insurance subject to the same terms and conditions as set forth herein for Contractor.~~

Contractor shall ensure that all subcontractors performing work on behalf of Contractor pursuant to this Contract shall be covered under Contractor's insurance as an Additional Insured or maintain insurance subject to the same terms and conditions as set forth herein for Contractor. Contractor shall not allow subcontractors to work if subcontractors have less than the level of coverage required by County from Contractor under this Contract. It is the obligation of Contractor to provide notice of the insurance requirements to every subcontractor and to receive proof of insurance prior to allowing any subcontractor to begin work. Such proof of insurance must be maintained by Contractor through the entirety of this Contract for inspection by County representative(s) at any reasonable time.

All self-insured retentions (SIR)'s shall be clearly stated on the Certificate of Insurance. Any SIR in excess of Fifty Thousand Dollars \$50,000 shall specifically be approved by the County's Risk Manager, or designee. The County reserves the right to require current audited financial reports from Contractor. If Contractor is self-insured, Contractor will indemnify the County for any and all claims resulting or arising from Contractor's services in accordance with the indemnity provision stated in this contract.

- ~~1) In addition to the duty to indemnify and hold the County harmless against any and all liability, claim, demand or suit resulting from Contractor's, its agents, employee's or subcontractor's performance of this Contract, Contractor shall defend the County at its sole cost and expense with counsel approved by Board of Supervisors against same; and~~
- ~~2) Contractor's duty to defend, as stated above, shall be absolute and irrespective of any duty to indemnify or hold harmless; and~~
- ~~3) The provisions of California Civil Code Section 2860 shall apply to any and all actions to which the duty to defend stated above applies, and the Contractor's SIR provision shall be interpreted as though the Contractor was an insurer and the County was the insured.~~

If the Contractor fails to maintain insurance acceptable to the County for the full term of this Contract, the County may terminate this Contract.

Qualified Insurer

The policy or policies of insurance must be issued by an insurer with a minimum rating of A- (Secure A.M. Best's Rating) and VIII (Financial Size Category as determined by the most current edition of the **Best's Key Rating Guide/Property-Casualty/United States or ambest.com**). ~~It is preferred, but not mandatory, that the insurer be licensed to do business in the state of California (California Admitted Carrier).~~

If the insurance carrier does not have an A.M. Best Rating of A-/VIII, the CEO/Office of Risk Management retains the right to approve or reject a carrier after a review of the company's performance and financial ratings.

The policy or policies of insurance maintained by the Contractor shall provide the minimum limits and coverage as set forth below:

<u>Coverage</u>	<u>Minimum Limits</u>
Commercial General Liability	\$1,000,000 per occurrence \$2,000,000 aggregate
Automobile Liability including coverage for owned, non-owned and hired vehicles	\$1,000,000 combined single limit each accident
Workers Compensation	Statutory
Employers Liability Insurance	\$1,000,000 per accident or disease

Increased insurance limits may be satisfied with Excess/Umbrella policies. Excess/Umbrella policies when required must provide Follow Form coverage.

Required Coverage Forms

The Commercial General Liability coverage shall be written on occurrence basis utilizing Insurance Services Office (ISO) form CG 00 01, or a substitute form providing liability coverage at least as broad.

The Business Auto Liability coverage shall be written on ISO form CA 00 01, CA 00 05, CA 0012, CA 00 20, or a substitute form providing coverage at least as broad.

Required Endorsements

The Commercial General Liability policy shall contain the following endorsements, which shall accompany the Certificate of Insurance:

- 1) An Additional Insured endorsement using ISO form CG 20 26 04 13, or a form at least as broad naming the *County of Orange, the Orange County Flood Control District, and their elected and appointed officials, officers, agents and employees* as Additional Insureds, or provide blanket coverage, which will state **AS REQUIRED BY WRITTEN CONTRACT.**
- 2) A primary non-contributing endorsement using ISO form CG 20 01 04 13, or a form at least as broad evidencing that the Contractor's insurance is primary and any insurance or self-insurance maintained by the County of Orange shall be excess and non-contributing.

The Workers' Compensation policy shall contain a waiver of subrogation endorsement waiving all rights of subrogation against the *County of Orange, the Orange County Flood Control District, and their elected and appointed officials, officers, agents and employees* or provide blanket coverage, which will state **AS REQUIRED BY WRITTEN CONTRACT.**

All insurance policies required by this Contract shall waive all rights of subrogation against the *County of Orange, the Orange County Flood Control District, and their elected and appointed officials, officers, agents and employees* when acting within the scope of their appointment or employment.

Contractor shall provide thirty (30) days prior written notice to the County of any policy cancellation or non-renewal and ten (10) days prior written notice where cancellation is due to

non-payment of premium and provide a copy of the cancellation notice to County. Failure to provide written notice of cancellation may constitute a material breach of the Contract, upon which the County may suspend or terminate this Contract.

The Commercial General Liability policy shall contain a severability of interests clause also known as a “separation of insureds” clause (standard in the ISO CG 0001 policy).

Insurance certificates should be emailed to OCPWCompliance@ocpw.ocgov.com

If email is not possible, then Insurance certificates should specifically be forwarded to:

OC Public Works
Attn: OCPW Procurement
601 N. Ross Street, 4th Floor
Santa Ana, CA 92701

If the Contractor fails to provide the insurance certificates and endorsements within seven (7) days of notification by CEO/Procurement or the agency/department procurement division, award may be made to the next qualified vendor.

County expressly retains the right to require Contractor to increase or decrease insurance of any of the above insurance types throughout the term of this Contract. Any increase or decrease in insurance will be as deemed by County of Orange Risk Manager as appropriate to adequately protect County.

County shall notify Contractor in writing of changes in the insurance requirements. If Contractor does not provide acceptable Certificates of Insurance and endorsements to County incorporating such changes within thirty (30) days of receipt of such notice, this Contract may be in breach without further notice to Contractor, and County shall be entitled to all legal remedies.

The procuring of such required policy or policies of insurance shall not be construed to limit Contractor's liability hereunder nor to fulfill the indemnification provisions and requirements of this Contract, nor act in any way to reduce the policy coverage and limits available from the insurer.

P. **Changes:** Contractor shall make no changes in the work or perform any additional work without the County's specific written approval.

Q. **Change of Ownership/Name, Litigation Status, Conflicts with County Interests:**

Contractor agrees that if there is a change or transfer in ownership of Contractor's business prior to completion of this Contract, and the County agrees to an assignment of the Contract, the new owners shall be required under the terms of sale or other instruments of transfer to assume Contractor's duties and obligations contained in this Contract, and complete them to the satisfaction of the County.

County reserves the right to immediately terminate the Contract in the event the County determines that the assignee is not qualified or is otherwise unacceptable to the County for the provision of services under the Contract.

In addition, Contractor has the duty to notify the County in writing of any change in the Contractor's status with respect to name changes that do not require an assignment of the Contract. The Contractor is also obligated to notify the County in writing if the Contractor becomes a party to any litigation against the County, or a party to litigation that may reasonably

affect the Contractor's performance under the Contract, as well as any potential conflicts of interest between Contractor and County that may arise prior to or during the period of Contract performance. While Contractor will be required to provide this information without prompting from the County any time there is a change in Contractor's name, conflict of interest or litigation status, Contractor must also provide an update to the County of its status in these areas whenever requested by the County.

The Contractor shall exercise reasonable care and diligence to prevent any actions or conditions that could result in a conflict with County interests. In addition to the Contractor, this obligation shall apply to the Contractor's employees, agents, and subcontractors associated with the provision of goods and services provided under this Contract. The Contractor's efforts shall include, but not be limited to establishing rules and procedures preventing its employees, agents, and subcontractors from providing or offering gifts, entertainment, payments, loans or other considerations which could be deemed to influence or appear to influence County staff or elected officers in the performance of their duties.

- R. **Force Majeure:** Contractor shall not be assessed with liquidated damages or unsatisfactory performance penalties during any delay beyond the time named for the performance of this Contract caused by any act of God, war, civil disorder, employment strike or other cause beyond its reasonable control, provided Contractor gives written notice of the cause of the delay to County within 36 hours of the start of the delay and Contractor avails himself of any available remedies.
- S. **Confidentiality:** Contractor agrees to maintain the confidentiality of all County and County-related records and information pursuant to all statutory laws relating to privacy and confidentiality that currently exist or exist at any time during the term of this Contract. All such records and information shall be considered confidential and kept confidential by Contractor and Contractor's staff, agents and employees.
- T. **Compliance with Laws:** Contractor represents and warrants that services to be provided under this Contract shall fully comply, at Contractor's expense, with all standards, laws, statutes, restrictions, ordinances, requirements, and regulations (collectively "laws"), including, but not limited to those issued by County in its governmental capacity and all other laws applicable to the services at the time services are provided to and accepted by County. Contractor acknowledges that County is relying on Contractor to ensure such compliance, and pursuant to the requirements of **article "Z"** below, Contractor agrees that it shall defend, indemnify and hold County and County INDEMNITEES harmless from all liability, damages, costs and expenses arising from or related to a violation of such laws.
- U. **Freight:** Prior to the County's express acceptance of delivery of products. Contractor assumes full responsibility for all transportation, transportation scheduling, packing, handling, insurance, and other services associated with delivery of all products deemed necessary under this Contract.
- V. **Severability:** If any term, covenant, condition or provision of this Contract is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remainder of the provisions hereof shall remain in full force and effect and shall in no way be affected, impaired or invalidated thereby.
- W. **Attorney Fees:** In any action or proceeding to enforce or interpret any provision of this Contract, each party shall bear their own attorney's fees, costs and expenses.
- X. **Interpretation:** This Contract has been negotiated at arm's length and between persons sophisticated and knowledgeable in the matters dealt with in this Contract. In addition, each

party had been represented by experienced and knowledgeable independent legal counsel of their own choosing or has knowingly declined to seek such counsel despite being encouraged and given the opportunity to do so. Each party further acknowledges that they have not been influenced to any extent whatsoever in executing this Contract by any other party hereto or by any person representing them, or both. Accordingly, any rule or law (including California Civil Code Section 1654) or legal decision that would require interpretation of any ambiguities in this Contract against the party that has drafted it is not applicable and is waived. The provisions of this Contract shall be interpreted in a reasonable manner to effect the purpose of the parties and this Contract.

- Y. **Employee Eligibility Verification:** The Contractor warrants that it fully complies with all Federal and State statutes and regulations regarding the employment of aliens and others and that all its employees performing work under this Contract meet the citizenship or alien status requirement set forth in Federal statutes and regulations. The Contractor shall obtain, from all employees performing work hereunder, all verification and other documentation of employment eligibility status required by Federal or State statutes and regulations including, but not limited to, the Immigration Reform and Control Act of 1986, 8 U.S.C. §1324 et seq., as they currently exist and as they may be hereafter amended. The Contractor shall retain all such documentation for all covered employees for the period prescribed by the law. The Contractor shall indemnify, defend with counsel approved in writing by County, and hold harmless, the County, its agents, officers, and employees from employer sanctions and any other liability which may be assessed against the Contractor or the County or both in connection with any alleged violation of any Federal or State statutes or regulations pertaining to the eligibility for employment of any persons performing work under this Contract.

- Z. **Indemnification:** Contractor agrees to indemnify, defend with counsel approved in writing by County, and hold County, District, and their elected and appointed officials, officers, employees, agents and those special districts and agencies which County’s Board of Supervisors acts as the governing Board (“County Indemnitees”) harmless from any claims, demands or liability of any kind or nature, including but not limited to personal injury or property damage, arising from or related to the services, products or other performance provided by Contractor pursuant to this Contract. If judgment is entered against Contractor and County or District by a court of competent jurisdiction because of the concurrent active negligence of County, District or County Indemnitees, Parties agree that liability will be apportioned as determined by the court. No party shall request a jury apportionment.

- AA. **Audits/Inspections:** Contractor agrees to permit the County’s Auditor-Controller or the Auditor-Controller’s authorized representative (including auditors from a private auditing firm hired by the County) access during normal working hours to all books, accounts, records, reports, files, financial records, supporting documentation, including payroll and accounts payable/receivable records, and other papers or property of Contractor for the purpose of auditing or inspecting any aspect of performance under this Contract. The inspection and/or audit will be confined to those matters connected with the performance of the Contract including, but not limited to, the costs of administering the Contract. The County will provide reasonable notice of such an audit or inspection.

The County reserves the right to audit and verify the Contractor’s records before final payment is made.

Contractor agrees to maintain such records for possible audit for a minimum of three years after final payment, unless a longer period of records retention is stipulated under this Contract or by law. Contractor agrees to allow interviews of any employees or others who might reasonably have information related to such records. Further, Contractor agrees to include a similar right to

the County to audit records and interview staff of any subcontractor related to performance of this Contract.

Should the Contractor cease to exist as a legal entity, the Contractor's records pertaining to this Contract shall be forwarded to the County's project manager.

- BB. **Contingency of Funds:** Contractor acknowledges that funding or portions of funding for this Contract may be contingent upon state budget approval; receipt of funds from, and/or obligation of funds by, the state of California to County; and inclusion of sufficient funding for the services hereunder in the budget approved by County's Board of Supervisors for each fiscal year covered by this Contract. If such approval, funding or appropriations are not forthcoming, or are otherwise limited, County may immediately terminate or modify this Contract without penalty.
- CC. **Expenditure Limit:** The Contractor shall notify the County of Orange assigned Deputy Purchasing Agent in writing when the expenditures against the Contract reach 75 percent of the dollar limit on the Contract. The County will not be responsible for any expenditure overruns and will not pay for work exceeding the dollar limit on the Contract unless a change order to cover those costs has been issued.

Additional Terms and Conditions:

1. **Scope of Contract:** This Contract specifies the contractual terms and conditions by which the County will procure Asphalt Concrete Pavement Maintenance Services from Contractor as further detailed in the Scope of Work, identified and incorporated herein by this reference as "Attachment A".
2. **Term of Contract:** The term of this Contract shall be effective upon execution of all authorized signatures or approval by the Orange County Board of Supervisors, whichever occurs later, and shall continue for three (3) years from that date unless otherwise terminated as provided herein.

Amendment No. 1: Renew Contract for 1 year

3. **Renewal:** This Contract may be renewed upon expiration of the initial term, for two (2) additional one year terms, upon mutual agreement of both parties. The County is not obligated to give a reason or notice if elects not to renew. Renewal amendments may require County Board of Supervisors approval.

Contract is renewed effective July 1, 2023 and shall continue for one (1) year from that date, unless otherwise terminated as provided herein.

4. **Adjustments – Scope of Work:** No adjustments made to the Scope of Work will be authorized without prior written approval of the County assigned Deputy Purchasing Agent.
5. **Breach of Contract:** The failure of the Contractor to comply with any of the provisions, covenants or conditions of this Contract shall be a material breach of this Contract. In such event the County may, and in addition to any other remedies available at law, in equity, or otherwise specified in this Contract:
 - a) Terminate the Contract immediately, pursuant to Section K herein;
 - b) Afford the Contractor written notice of the breach and ten (10) calendar days or such shorter time that may be specified in this Contract within which to cure the breach;

- c) Discontinue payment to the Contactor for and during the period in which the Contractor is in breach; and
 - d) Offset against any monies billed by the Contractor but yet unpaid by the County those monies disallowed pursuant to the above.
6. **Civil Rights:** Contractor attests that services provided shall be in accordance with the provisions of Title VI and Title VII of the Civil Rights Act of 1964, as amended, Section 504 of the Rehabilitation Act of 1973, as amended; the Age Discrimination Act of 1975 as amended; Title II of the Americans with Disabilities Act of 1990, and other applicable State and federal laws and regulations prohibiting discrimination on the basis of race, color, national origin, ethnic group identification, age, religion, marital status, sex or disability.
7. **Conflict of Interest – Contractor’s Personnel:** The Contractor shall exercise reasonable care and diligence to prevent any actions or conditions that could result in a conflict with the best interests of the County. This obligation shall apply to the Contractor; the Contractor’s employees, agents, and subcontractors associated with accomplishing work and services hereunder. The Contractor’s efforts shall include, but not be limited to establishing precautions to prevent its employees, agents, and subcontractors from providing or offering gifts, entertainment, payments, loans or other considerations which could be deemed to influence or appear to influence County staff or elected officers from acting in the best interests of the County.
8. **Conflict of Interest – County Personnel:** The County of Orange Board of Supervisors policy prohibits its employees from engaging in activities involving a conflict of interest. The Contractor shall not, during the period of this Contract, employ any County employee for any purpose.
9. **Contractor’s Project Manager and Key Personnel:** Contractor shall appoint a Project Manager to direct the Contractor’s efforts in fulfilling Contractor’s obligations under this Contract. This Project Manager shall be subject to approval by the County and shall not be changed without the written consent of the County’s Project Manager, which consent shall not be unreasonably withheld.
- The Contractor’s Project Manager shall be assigned to this project for the duration of the Contract and shall diligently pursue all work and services to meet the project time lines. The County’s Project Manager shall have the right to require the removal and replacement of the Contractor’s Project Manager from providing services to the County under this Contract. The County’s Project manager shall notify the Contractor in writing of such action. The Contractor shall accomplish the removal within five (5) business days after written notice by the County’s Project Manager. The County’s Project Manager shall review and approve the appointment of the replacement for the Contractor’s Project Manager. The County is not required to provide any additional information, reason or rationale in the event it requires the removal of Contractor’s Project Manager from providing further services under the Contract.
10. **Contractor Personnel – Reference Checks:** The Contractor warrants that all persons employed to provide service under this Contract have satisfactory past work records indicating their ability to adequately perform the work under this Contract. Contractor’s employees assigned to this project must meet character standards as demonstrated by background investigation and reference checks, coordinated by the agency/department issuing this Contract.
11. **Contractor’s Expense:** The Contractor will be responsible for all costs related to photo copying, telephone communications, email communications, and parking while on County sites during the

performance of work and services under this Contract. The County will not provide free parking for any service in the County Civic Center.

12. **Contractor Personnel – Uniform/Badges/Identification:** The Contractor warrants that all persons employed to provide service under this Contract have satisfactory past work records indicating their ability to accept the kind of responsibility under this Contract.

All Contractor’s employees shall be required to wear uniforms, badges, or other means of identification which are to be furnished by the Contractor and must be worn at all times while working on County property. The assigned Deputy Purchasing Agent must be notified in writing, within seven (7) days of notification of award of Contract of the uniform and/or badges and/or other identification to be worn by employees prior to beginning work and notified in writing seven (7) days prior to any changes in this procedure.

13. **Conditions Affecting Work:** The Contractor shall be responsible for taking all steps reasonably necessary to ascertain the nature and location of the work to be performed under this Contract and to know the general conditions which can affect the work or the cost thereof. Any failure by the Contractor to do so will not relieve Contractor from responsibility for successfully performing the work without additional cost to the County. The County assumes no responsibility for any understanding or representations concerning the nature, location(s) or general conditions made by any of its officers or agents prior to the execution of this Contract, unless such understanding or representations by the County are expressly stated in the Contract.

14. **Cooperative Agreement:** The provisions and pricing of this Contract will be extended to other California local or state governmental entities. Governmental entities wishing to use the pre-negotiated prices and terms in this Contract will be responsible for issuing their own purchase documents/contracts, providing for their own acceptance, and making any subsequent payments. Contractor shall be required to include in any contract entered into with another department or entity that is entered into and incorporates by reference the pre-negotiated prices and terms of this Contract a contractual clause that will hold harmless the County of Orange from all claims, demands, actions or causes of actions of every kind resulting directly or indirectly, arising out of, or in any way connected with the use of this Contract. Failure to do so will be considered a material breach of this Contract by Contractor and grounds for immediate Contract termination. Departments or entities making use of the pre-negotiated prices and terms of this Contract are responsible for obtaining all certificates of insurance and bonds required when entering into their own contract. The Contractor is responsible for providing each cooperative entity a copy of the Contract upon request by the cooperative entity. The County of Orange makes no guarantee of usage by other users of this Contract.

The Contractor shall be required to maintain a list of the cooperative entities using this Contract. The list shall report dollar volumes spent annually and shall be provided on an annual basis to the County, at the County’s request.

15. **Data – Title To:** All materials, documents, data or information obtained from the County data files or any County medium furnished to the Contractor in the performance of this Contract will at all times remain the property of the County. Such data or information may not be used or copied for direct or indirect use by the Contractor after completion or termination of this Contract without the express written consent of the County. All materials, documents, data or information, including copies, must be returned to the County at the end of this Contract.

16. **Default – Reprocurement Costs:** In case of Contract breach by Contractor, resulting in termination by the County, the County may procure the goods and/or services from other sources. If the cost for those goods and/or services is higher than under the terms of the existing Contract,

Contractor will be responsible for paying the County the difference between the Contract cost and the price paid, and the County may deduct this cost from any unpaid balance due the Contractor. The price paid by the County shall be the prevailing market price at the time such purchase is made. This is in addition to any other remedies available under this Contract and under law.

17. Disputes – Contract:

- A. The parties shall deal in good faith and attempt to resolve potential disputes informally. If the dispute concerning a question of fact arising under the terms of this Contract is not disposed of in a reasonable period of time by the Contractor’s Project Manager and the County’s Project Manager, as specified in Article 24. “Notices,” such matter shall be brought to the attention of the County Deputy Purchasing Agent by way of the following process:
 - 1. The Contractor shall submit to the agency/department assigned Deputy Purchasing Agent a written demand for a final decision regarding the disposition of any dispute between the parties arising under, related to, or involving this Contract, unless the County, on its own initiative, has already rendered such a final decision.
 - 2. The Contractor’s written demand shall be fully supported by factual information, and, if such demand involves a cost adjustment to the Contract, the Contractor shall include with the demand a written statement signed by a senior official indicating that the demand is made in good faith, that the supporting data are accurate and complete, and that the amount requested accurately reflects the Contract adjustment for which the Contractor believes the County is liable.
- B. Pending the final resolution of any dispute arising under, related to, or involving this Contract, the Contractor agrees to diligently proceed with the performance of this Contract, including the delivery of goods and/or provision of services. The Contractor’s failure to diligently proceed shall be considered a material breach of this Contract.

Any final decision of the County shall be expressly identified as such, shall be in writing, and shall be signed by the County Deputy Purchasing Agent or his designee. If the County fails to render a decision within 90 days after receipt of the Contractor’s demand, it shall be deemed a final decision adverse to the Contractor’s contentions. Nothing in this section shall be construed as affecting the County’s right to terminate the Contract for cause or termination for convenience as stated in section K herein.

18. Drug-Free Workplace: The Contractor hereby certifies compliance with Government Code Section 8355 in matters relating to providing a drug-free workplace. The Contractor will:

- 1. Publish a statement notifying employees that unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited and specifying actions to be taken against employees for violations, as required by Government Code Section 8355(a)(1).
- 2. Establish a drug-free awareness program as required by Government Code Section 8355(a)(2) to inform employees about all of the following:
 - a. The dangers of drug abuse in the workplace;
 - b. The organization’s policy of maintaining a drug-free workplace;

- c. Any available counseling, rehabilitation and employee assistance programs; and
 - d. Penalties that may be imposed upon employees for drug abuse violations.
3. Provide as required by Government Code Section 8355(a)(3) that every employee who works under this Contract:
- a. Will receive a copy of the company's drug-free policy statement; and
 - b. Will agree to abide by the terms of the company's statement as a condition of employment under this Contract.

Failure to comply with these requirements may result in suspension of payments under the Contract or termination of the Contract or both, and the Contractor may be ineligible for award of any future County contracts if the County determines that any of the following has occurred:

- 1. The Contractor has made false certification, or
- 2. The Contractor violates the certification by failing to carry out the requirements as noted above.

19. **EDD Independent Contractor Reporting Requirements:** Effective January 1, 2001, the County of Orange is required to file in accordance with subdivision (a) of Section 6041A of the Internal Revenue Code for services received from a "service provider" to whom the County pays \$600 or more or with whom the County enters into a contract for \$600 or more within a single calendar year. The purpose of this reporting requirement is to increase child support collection by helping to locate parents who are delinquent in their child support obligations.

The term "service provider" is defined in California Unemployment Insurance Code Section 1088.8, subarticle B.2 as "an individual who is not an employee of the service recipient for California purposes and who received compensation or executes a contract for services performed for that service recipient within or without the state." The term is further defined by the California Employment Development Department to refer specifically to independent Contractors. An independent Contractor is defined as "an individual who is not an employee of the ... government entity for California purposes and who receives compensation or executes a contract for services performed for that ... government entity either in or outside of California."

The reporting requirement does not apply to corporations, general partnerships, limited liability partnerships, and limited liability companies.

Additional information on this reporting requirement can be found at the California Employment Development Department web site located at http://www.edd.ca.gov/Employer_Services.htm

20. **Emergency/Declared Disaster Requirements:** In the event of an emergency or if Orange County is declared a disaster area by the County, state or federal government, this Contract may be subjected to unusual usage. The Contractor shall service the County during such an emergency or declared disaster under the same terms and conditions that apply during non-emergency/disaster conditions. The pricing quoted by the Contractor shall apply to serving the County's needs regardless of the circumstances. If the Contractor is unable to supply the goods/services under the terms of the Contract, then the Contractor shall provide proof of such

disruption and a copy of the invoice for the goods/services from the Contractor's supplier(s). Additional profit margin as a result of supplying goods/services during an emergency or a declared disaster shall not be permitted. In the event of an emergency or declared disaster, emergency purchase order numbers will be assigned. All applicable invoices from the Contractor shall show both the emergency purchase order number and the Contract number.

21. **Equal Employment Opportunity:** The Contractor shall comply with U.S. Executive Order 11246 entitled, "Equal Employment Opportunity" as amended by Executive Order 11375 and as supplemented in Department of Labor regulations (41 CFR, Part 60) and applicable state of California regulations as may now exist or be amended in the future. The Contractor shall not discriminate against any employee or applicant for employment on the basis of race, color, national origin, ancestry, religion, sex, marital status, political affiliation or physical or mental condition.

Regarding handicapped persons, the Contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap in regard to any position for which the employee or applicant for employment is qualified. The Contractor agrees to provide equal opportunity to handicapped persons in employment or in advancement in employment or otherwise treat qualified handicapped individuals without discrimination based upon their physical or mental handicaps in all employment practices such as the following: employment, upgrading, promotions, transfers, recruitments, advertising, layoffs, terminations, rate of pay or other forms of compensation, and selection for training, including apprenticeship. The Contractor agrees to comply with the provisions of Sections 503 and 504 of the Rehabilitation Act of 1973, as amended, pertaining to prohibition of discrimination against qualified handicapped persons in all programs and/or activities as detailed in regulations signed by the Secretary of the Department of Health and Human Services effective June 3, 1977, and found in the Federal Register, Volume 42, No. 68 dated May 4, 1977, as may now exist or be amended in the future.

Regarding Americans with disabilities, Contractor agrees to comply with applicable provisions of Title 1 of the Americans with Disabilities Act enacted in 1990 as may now exist or be amended in the future.

22. **Hazardous Conditions:** Whenever the Contractor's operations create a condition hazardous to traffic or to the public, the Contractor shall provide flagmen and furnish, erect and maintain control devices as are necessary to prevent accidents or damage or injury to the public at Contractor's expense and without cost to the County. The Contractor shall comply with County directives regarding potential hazards.

Emergency lights and traffic cones must also be readily available at all times and must be used in any hazardous condition. Emergency traffic cones must be placed in front of and behind vehicles to warn oncoming traffic.

Signs, lights, flags, and other warning and safety devices shall conform to the requirements set forth in Chapter 6 of the current traffic manual, Traffic Control for Construction and Maintenance Work Zones, published by the state of California Department of Transportation.

23. **News/Information Release:** The Contractor agrees that it will not issue any news releases in connection with either the award of this Contract or any subsequent amendment of or effort under this Contract without first obtaining review and written approval of said news releases from the County through the County's Project Manager.

24. **Notices:** Any and all notices, requests demands and other communications contemplated, called for, permitted, or required to be given hereunder shall be in writing with a copy provided to the assigned Deputy Purchasing Agent (DPA), except through the course of the parties' project

managers' routine exchange of information and cooperation during the terms of the work and services. Any written communications shall be deemed to have been duly given upon actual in-person delivery, if delivery is by direct hand, or upon delivery on the actual day of receipt or no greater than four (4) calendar days after being mailed by US certified or registered mail, return receipt requested, postage prepaid, whichever occurs first. The date of mailing shall count as the first day. All communications shall be addressed to the appropriate party at the address stated herein or such other address as the parties hereto may designate by written notice from time to time in the manner aforesaid.

Contractor: Hardy & Harper, Inc.
Attn: Ashlie Blanchard
32 Rancho Circle
Lake Forest, CA 92630
Phone: 714-444-1851
Email: ablanchard@hardyandharper.com

County's Project Manager: OC Public Works/OC Operations and Maintenance
Attn: Kris Ruiz
2301 N. Glassell St.
Orange, CA 92865
Phone: 714-955-0346
Email: Kris.Ruiz@ocpw.ocgov.com

OC Public Works/OC Facilities Maintenance
Attn: Robert Kmetz
1143 East Fruit Street
Santa Ana, CA 92701-4204
Phone: 714-667-3281
Email: Robert.Kmetz@ocpw.ocgov.com

cc: OC Public Works/Procurement Services
Attn: Richard Nguyen, County DPA
1143 E. Fruit St.
Santa Ana, CA 92701
Phone: 714-667-9633
Email: Richard.Nguyen@ocpw.ocgov.com

25. **Payroll Records:** Contractor and any Subcontractor(s) shall comply with the requirements of Labor Code Section 1776. Such compliance includes the obligation to furnish the records specified in Section 1776 directly to the Labor Commissioner in an electronic format, or other format as specified by the Commissioner, in the manner provided by Labor Code Section 1771.4. The requirements of Labor Code Section 1776 provide, in summary:

1.1.1. Contractor and any Subcontractor(s) performing any portion of the work under this Contract shall keep an accurate record, showing the name, address, social security number, work classification, straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker, or other employee employed by Contractor or any Subcontractor(s) in connection with the work.

1.1.2. Each payroll record shall contain or be verified by a written declaration that it is made under penalty of perjury, stating both of the following:

(a) The information contained in the payroll record is true and correct.

- (b) The employer has complied with the requirements of Labor Code Sections 1771, 1811, and 1815 for any work performed by his or her employees in connection with the Contract.
- 1.1.3. The payroll records shall be certified and shall be available for inspection at the principal office of Contractor on the basis set forth in Labor Code Section 1776.
- 1.1.4. Contractor shall inform County of the location of the payroll records, including the street address, city and county, and shall, within five working days, provide a notice of any change of location and address of the records.
- 1.1.5. Pursuant to Labor Code Section 1776, Contractor and any Subcontractor(s) shall have 10 days in which to provide a certified copy of the payroll records subsequent to receipt of a written notice requesting the records described herein. In the event that Contractor or any Subcontractor fails to comply within the 10-day period, he or she shall, as a penalty to County, forfeit \$100, or a higher amount as provided by Section 1776, for each calendar day, or portion thereof, for each worker to whom the noncompliance pertains, until strict compliance is effectuated. Contractor acknowledges that, without limitation as to other remedies of enforcement available to County, upon the request of the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement of the California Department of Industrial Relations, such penalties shall be withheld from progress payments then due Contractor. Contractor is not subject to a penalty assessment pursuant to this section due to the failure of a subcontractor to comply with this section.

Contractor and any Subcontractor(s) shall comply with the provisions of Labor Code Sections 1771 et seq., and shall pay workers employed on the Contract not less than the general prevailing rates of per diem wages and holiday and overtime wages as determined by the Director of Industrial Relations. Contractor shall post a copy of these wage rates at the job site for each craft, classification, or type of worker needed in the performance of this Contract, as well as any additional job site notices required by Labor Code Section 1771.4(b). Copies of these rates are on file at the principal office of County's representative, or may be obtained from the State Office, Department of Industrial Relations ("DIR") or from the DIR's website at www.dir.ca.gov. If the Contract is federally funded, Contractor and any Subcontractor(s) shall not pay less than the higher of these rates or the rates determined by the United States Department of Labor.

- 26. **Precedence:** The Contract documents consist of this Contract and its exhibits and attachments. In the event of a conflict between or among the Contract documents, the order of precedence shall be the provisions of the main body of this Contract, i.e., those provisions set forth in the recitals and articles of this Contract, and then the exhibits and attachments.
- 27. **County's Project Manager:** The County shall appoint a project manager to act as liaison between the County and the Contractor during the term of this Contract. The County's project manager shall coordinate the activities of the County staff assigned to work with the Contractor.

The County's project manager shall have the right to require the removal and replacement of the Contractor's project manager and key personnel. The County's project manager shall notify the Contractor in writing of such action. The Contractor shall accomplish the removal within three (3) business days after written notice from the County's project manager. The County's project manager shall review and approve the appointment of the replacement for the Contractor's project manager and key personnel. Said approval shall not be unreasonably withheld. The County is not required to provide any additional information, reason or rationale in the event it requires the removal of Contractor's Project Manager from providing further services under the Contract.

28. **Registration of Contractors:** All contractors and subcontractors must comply with the requirements of Labor Code Section 1771.1(a), pertaining to registration of contractors pursuant to Section 1725.5. Bids cannot be accepted from unregistered contractors except as provided in Section 1771.1. This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations. After award of the contract, Contractor and each Subcontractor shall furnish electronic payroll records directly to the Labor Commissioner in the manner specified in Labor Code Section 1771.4.

Awarding agencies are not required to submit the notice of contract award through DIR's PWC-100 system on projects that fall within the small project exemption. The small project exemption applies for all public works projects that do not exceed:

- \$25,000 for new construction, alteration, installation, demolition or repair
- \$15,000 for maintenance

If the project meets or exceeds these amounts, the County and the Contractor are required to register the project with the California Department of Industrial Relations.

<https://www.dir.ca.gov/Public-Works/PublicWorks.html>

29. **Safety Data Sheets (SDS):** The Contractor is required to provide a completed Safety Data Sheet (SDS) for each hazardous substance provided to the County under the Contractor's Contract with the County. This includes hazardous substances that are not directly included in the Contract, but are included in the goods or services provided by the Contractor to the County. The provision of the SDSs must be in accordance with the requirements of California Labor Code Sections 6380 through 6399, General Industry Safety Order Section 5194, and Title 8, California Code of Regulations. The SDSs for each substance must be sent to the place of shipment or provision of goods/service.
30. **Subcontracting:** No performance of this Contract or any portion thereof may be subcontracted by the Contractor without the express written consent of the County. Any attempt by the Contractor to subcontract any performance of this Contract without the express written consent of the County shall be invalid and shall constitute a breach of this Contract.
31. **Termination – Orderly:** After receipt of a termination notice from the County of Orange, the Contractor may submit to the County a termination claim, if applicable. Such claim shall be submitted promptly, but in no event later than 60 days from the effective date of the termination, unless one or more extensions in writing are granted by the County upon written request of the Contractor. Upon termination County agrees to pay the Contractor for all services performed prior to termination which meet the requirements of the Contract, provided, however, that such compensation combined with previously paid compensation shall not exceed the total compensation set forth in the Contract. Upon termination or other expiration of this Contract, each party shall promptly return to the other party all papers, materials, and other properties of the other held by each for purposes of performance of the Contract.
32. **Usage:** No guarantee is given by the County to the Contractor regarding usage of this Contract. Usage figures, if provided, are approximations. The Contractor agrees to supply services and/or commodities requested, as needed by the County of Orange, at rates/prices listed in the Contract, regardless of quantity requested.
33. **Usage Reports:** The Contractor shall submit usage reports on an annual basis to the assigned Deputy Purchasing Agent of the County of Orange user agency/department. The usage report

shall be in a format specified by the user agency/department and shall be submitted 90 days prior to the expiration date of the contract term, or any subsequent renewal term, if applicable.

34. **Prevailing Wage: (Labor Code §1773):** Pursuant to the provisions of Section 1773 of the Labor Code of the state of California, the contractor shall comply with the general prevailing rates of per diem wages and the general prevailing rates for holiday and overtime wages in this locality for each craft, classification, or type of worker needed to execute this contract. The rates are available from the Director of the Department of Industrial Relations at the following website: <http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm>. The contractor shall post a copy of such wage rates at the job site and shall pay the adopted prevailing wage rates. The Contractor shall comply with the provisions of Sections 1775 and 1813 of the Labor Code.
35. **Payment and Performance Bonds:** A payment bond and performance is required for a public works contract involving expenditure in excess of twenty-five thousand dollars (\$25,000) and no work can be commenced prior to both bonds being approved the County.

The Contractor shall furnish, at time of signing the Contract, one surety bond which shall protect the laborers and material men and shall be for \$60,000, in accordance with *Section 9554 of the Civil Code*, and one surety bond in the amount of \$60,000, guaranteeing the faithful performance of the Contract. If at any time the value of the total task orders is expected to exceed \$60,000, the Contractor shall furnish, in a manner acceptable to the County, evidence that the Contractor is bonded to the expected total value of outstanding task orders for both the faithful performance and laborers and material men bonds. Contractor shall not be entitled to, nor shall County authorize, task orders when the total outstanding value of the task orders under this contract exceeds the bond values for which the County is an obligee. Said bonds to be approved by the office of the County Counsel and the County Executive Office of Orange County. Such bonds shall be the forms provided in these specifications and issued and executed by an admitted surety insurer (authorized to transact surety insurance in California). (e.g., if the bonds are issued through a surplus line broker, both the surplus line broker and the insurer with whom he is doing business for purposes of this project must be licensed in California to issue such bonds.)

The faithful performance bond shall be issued by a Surety company with a minimum insurance rating of A- (Secure Best's Rating) and VIII (Financial Size Category) as determined by the most current edition of the Best's Key Rating Guide/Property-Casualty/United States or ambest.com. The Surety Company must also be authorized to write in California by the Department of the Treasury, and must be listed on the most current edition of the Department of Treasury's Listing of Approved Securities.

If any surety upon any bond furnished in connection with this Contract becomes unacceptable to the County, or if any such surety fails to furnish reports as to his financial condition from time to time as requested by OC Public Works, the Contractor shall promptly furnish such additional security as may be required by OC Public Works or the Board of Supervisors from time to time to protect the interests of the County and of persons supplying labor or materials in the prosecution of the Work contemplated by this Contract.

If the County increases the total Contract amount the Contractor is to provide a new bond for the new total Contract amount or a bond for the difference.

Execution of the Agreement and Notice to Proceed: County will not execute the Agreement or issue a Notice to Proceed with the work until Bidder has submitted and County has approved Bidder's Faithful Performance and Labor and Material Payment Bonds, proof of insurance, and initial job progress schedule. All such submittals must be received by County within 10 calendar days of award of the Contract. Any claims by Contractor for adjustments in time and/or cost for

delays in issuing the Notice to Proceed due to Contractor's failure to deliver bonds, insurance, and initial job progress schedule acceptable to County will not be considered.

36. **Execution of the Agreement and Notice to Proceed:** County will not execute the Contract or issue a Notice to Proceed with the work until Bidder has submitted and County has approved Bidder's Faithful Performance and Labor and Material Payment Bonds, proof of insurance, and initial job progress schedule. All such submittals must be received by County within 10 calendar days of award of the Contract. Any claims by Contractor for adjustments in time and/or cost for delays in issuing the Notice to Proceed due to Contractor's failure to deliver bonds, insurance, and initial job progress schedule acceptable to County will not be considered.
37. **Apprenticeship requirements:** The Contractor shall comply with Section 230.1(A), California Code of Regulations as required by the Department of Industrial Relations, Division of Apprenticeship Standards by submitting DAS Form to the Joint Apprenticeship Committee of the craft or trade in the area of the site.
38. **County of Orange Local Small Business Preference Requirements:** Contractor certifies it is in compliance with County of Orange Local Small Business Preference requirements at the time this Contract is executed.

Amendment No. 1: Reserve Article

39. **Reserved.**

Signature Page follows

Signature Page

IN WITNESS WHEREOF, the Parties hereto have executed this Contract on the date following their respective signatures.

HARDY & HARPER, INC.*

Signature	Name	Title	Date
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Signature	Name	Title	Date
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COUNTY OF ORANGE, A political subdivision of the State of California
COUNTY AUTHORIZED SIGNATURE:

Signature	Name	Title	Date
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APPROVED AS TO FORM:
County Counsel

By _____
Deputy

Date _____

* If the contracting party is a corporation, (2) two signatures are required: one (1) signature by the Chairman of the Board, the President or any Vice President; and one (1) signature by the Secretary, any Assistant Secretary, the Chief Financial Officer or any Assistant Treasurer. The signature of one person alone is sufficient to bind a corporation, as long as he or she holds corporate offices in each of the two categories described above. For County purposes, proof of such dual office holding will be satisfied by having the individual sign the instrument twice, each time indicating his or her office that qualifies under the above described provision. In the alternative, a single corporate signature is acceptable when accompanied by a corporate resolution demonstrating the legal authority of the signee to bind the corporation.

**ATTACHMENT A
SCOPE OF WORK**

I. DESCRIPTION OF WORK

- A. The work to be done consists, in general, of minor road maintenance (removal and replacement of isolated areas of deteriorated pavement, filling potholes, patching low spots, paving and/or installing road shoulders and roadside ditches, crack sealing and fog sealing of asphalt concrete curbs) on roads throughout Orange County. Work locations for this contract will include public roads within the unincorporated portions of Orange County and cities for which the County is under contract to perform road maintenance (Dana Point, Lake Forest, and Mission Viejo), County-owned facilities and flood control properties.
- B. Other items of work or details not mentioned above that are required by OC Public Works Standard Plans, http://www.ocpublicworks.com/about/oc_public_works_standard_plans (hereinafter, "Plans"); the "Greenbook" – Standard Specifications for Public Works Construction (hereinafter "Standard Specifications"), or this Scope of Work, shall be performed, placed, constructed or installed.

II. MOBILIZATION

- A. Mobilization shall include compensation for providing bonds, insurance, financing, and moving equipment and labor to the job site, and contract administration for the entire duration of the Contract.
- B. **Full compensation for conforming to requirements of "Mobilization" will be considered as included in the various items of work involved and no additional compensation will be allowed therefore.**

III. IDENTIFICATION AND SCHEDULING OF WORK

- A. County conducts recurring inspections of all County maintained roads and investigates citizen complaints of potholes and road damage. Inspector designates the limits of damaged areas with paint, documents the damage with Digital photos, a short summary of damage and required maintenance/repairs using a Work Order form. This report includes the specific location and Thomas Guide reference.
- B. County staff reviews, prioritizes, and "packages" these reports to include several locations in the same general geographic area. Work packages, including photos, will be prepared for the Contractor biweekly. A biweekly work package may include any of the work items in the Contract.
- C. Contractor will furnish a work plan indicating the day/date for work on each location in the biweekly work package. The County reserves the right to insert additional locations into a biweekly work package at any time. When this occurs, Contractor may request Inspector to delete one or more other work locations from that biweekly work package if the total work package, including additional work, cannot be completed during designated completion period. Inspector will respond to Contractor requests for deletion of work by close of business the next workday.

- D. Contractor shall send to a county inspector a daily worksheet anytime work is being performed for the County of Orange indicating job location/s, how many crew members with foreman name, equipment, tonnage of asphalt, how many loads in and out of job site. This should be done for each work order.

IV. WORK COMPLETION SCHEDULE

- A. Inspector will complete preparation of the biweekly work package by close of business Tuesday for the two week period beginning the following Monday. All work in the work package is to be completed by close of business the second Friday following the beginning of the work period. All work in each biweekly work package is to be completed within the two week period designated for that work package. Contractor is responsible for notifying Inspector if weather or other conditions preclude working on some or the entire work package. Such notification will be made within four hours of the event/occurrence.
- B. Inspector and Contractor are required to discuss the impact of weather or other agreed to delays in an attempt to identify these locations in the biweekly work package that cannot be completed on schedule. Inspector will normally include deleted items in the next biweekly work package.
- C. **Failure to complete the biweekly work package by the described date without Inspector's approved extension will result in a deduction of two hundred and fifty dollars (\$250.00) per day late penalty fee for each uncompleted locations.**

V. DEFICIENT PERFORMANCE

Liquidated Damages will be applied to deficient performance and/or late completion. Parties hereto agree that it is impracticable or extremely difficult to determine actual damages the County will sustain by reason of delay in performance. Therefore, Two Hundred Fifty Dollars (\$250.00) will be deducted and withheld from payments due or to become due to Contractor for each calendar day work is incomplete beyond the scheduled day. Contractor will be granted extension of time and will not be assessed Liquidated Damages for delays caused by acts of God.

VI. CONDUCT

Contractor personnel providing services under this Contract shall not be incompetent, disorderly, under the influence of alcohol or drugs; who fails or otherwise refuses to perform the work properly and acceptably, or is otherwise objectionable. County expressly retains the right to request any specific Contract personnel be precluded from providing services to County under this Contract. County is not required to provide any reason for requested removal of specified Contract personnel. Contractor shall effectuate removal of the requested Contractor personnel within three (3) calendar days.

VII. SUPERVISION

- A. Contractor shall provide a supervisor or foreman who shall be present at all times during Contract operations, and who shall be responsible for both conduct and workmanship. Said supervisor or foreman shall be able to communicate effectively in both written and oral English.

- B. **Full compensation for conforming to requirements of "Supervision" will be considered as included in the various items of work involved and no additional compensation will be allowed therefore.**

VIII. REPORTING COMPLETED WORK

Each completed package must have Contractor's name, date of completion and name and signature of Contractor's representative certifying completion of work. Completed work requests will be delivered to the Inspector by the close of business, the Tuesday following the end of the biweekly work period.

IX. ACCEPTANCE OF WORK

Each work location reported as complete will be accepted by Inspector for payment unless Contractor is notified otherwise by close of business, the second Friday following Report of Completion.

X. WARRANTY OF WORK

Contractor warrants all work to be free from defects of design material and workmanship, for a period of one (1) year from the date of acceptance of work. Expressly included is the warranty of compaction of existing base material or sub-grade and asphalt concrete placed under this Contract and that traffic will not result in a depression of the patch or repaved area greater than 1/4" below the surrounding pavement. Contractor, promptly after receipt of notice shall make good, at his expense, all defects developing during this period, including labor and material.

XI. EMERGENCY/ON CALL WORK

- A. Contractor will be required to provide emergency/on call response, 24 hours per day, seven days a week, to potholes, sinkholes, and other emergency maintenance/repairs as required. Contractor will be given specific locations to fix via telephone call and/or email from a County authorized representative. Contractor shall be compensated for responding to the emergency call and for the quantity of the work done. Contractor will be required to start the work indicated within 120 minutes of the initial telephone call/ email and report back to County Representative upon completion of work specified.
- B. Contractor shall provide a 24 hour emergency phone numbers, emails, and names of a minimum of two contact individuals within one week of award of Contract. Should the phone number or contact person change during the course of the Contract those changes must be provided to County.
- C. **Failure by Contractor to respond to an emergency within allotted 120 minutes will result in damage for additional inspection, administration and public safety sustained. Two Hundred and Fifty Dollars (\$250.00) per hour will be deducted and forfeited from payment to Contractor for each and every hour over the 120 minutes specified with each emergency requested.**
- D. Contractor will be required to provide all traffic control required during emergency operations.
- E. **Emergency/On Call Work will be considered as included in the Contract unit bid price per "Each" in accordance with this Scope of Work and no additional compensation will be allowed therefore.**

XII. COOPERATION

- A. The Contractor shall cooperate with all private property owners affected by the Project, notifying them at least 24 hours before commencement of any work on/or adjacent to their property.
The Contractor shall cooperate with utility companies doing on-going work and allow them sufficient time to finish their work
- B. **Full compensation for conforming to the requirements of “Cooperation” shall be considered as included in the various items of work involved and no additional compensation will be allowed therefore.**

XIII. SOUND CONTROL

- A. Contractor will comply with all County and local sound control and noise level rules, regulations, and ordinance, which apply to any work performed pursuant to the Contract, and will make every effort to control any undue noise resulting from its operation.
- B. **Full compensation for conforming to requirements of “Sound Control” will be considered as included in the various items of work involved and no additional compensation will be allowed therefore.**

XIV. DUST CONTROL

- A. No separate payment will be made for any work performed or material used to control dust resulting from the Contractor's performance of the work, or by public traffic, either inside or outside the right-of-way.
- B. Contractor will perform his operations in such a manner as to limit dust. Contractor will not create dust in such a quantity as to violate the South Coast Air Quality Management District's regulations.
- C. **Full compensation for conforming to requirements of “Dust Control” will be considered as included in the various items of work involved and no additional compensation will be allowed therefore.**

XV. DEBRIS REMOVAL

- A. All trash and debris shall be removed from work area by the end of each working day. At other times during the progress of work, when required, Contractor shall remove all surplus materials, rubbish, and debris resulting from the work. Work area will be left in a neat, clean and acceptable condition as approved by Inspector. No stockpile of debris will be allowed at the site.
- B. Contractor will pick up and dispose of materials at a site outside of County right-of-way approved for disposal of such materials. Any debris dropped on the public street during entrance or exit of the site will be removed immediately by Contractor.
- C. **Full compensation for conforming to requirements of “Debris Removal” will be considered as included in the various items of work involved and no additional compensation will be allowed therefore.**

XVI. WATER

- A. Contractor will furnish all water required for performance of this work, will make all arrangements for obtaining all water with the governing water district, and will comply with all requirements set forth by the governing water district.
- B. **Full compensation for conforming to requirements of “Water” will be considered as included in the various items of work involved and no additional compensation will be allowed therefore.**

XVII. PARKING CONTROL

- A. Parked cars may interfere with the work to be performed. Therefore, Contractor is required to post, maintain, and subsequently remove, temporary "Tow Away No Parking" signs along the streets work is to be performed with no less than 24 hours prior to the start of said work. Contractor will furnish signs per sample provided by County. Contractor will fill in day and date for scheduled work. Contractor will be responsible for replacing any signs which are damaged or removed in order to maintain notice to the public. Contractor will be responsible for the removal of all temporary "Tow Away No Parking" signs upon completion of the work in posted area.
- B. **Full compensation for conforming to requirements of “Parking Control” will be considered as included in the various items of work involved and no additional compensation will be allowed therefore.**

XVIII. TRAFFIC CONTROL

- A. Contractor will conduct its operations in a manner which will minimize traffic congestion during A.M. and P.M. peak-hour traffic. This may require beginning work after the A.M. peak-hour traffic and ending work before the P.M. peak-hour traffic.
- B. Night work will be permitted only by direction of county project manager
- C. Contractor will maintain access to schools and commercial areas at all times during project operation.
- D. If roadway needs to be closed anytime during maintenance/repairs. The contractor shall notify with advisor notices to all local businesses and residents which will be affected by the street closures. Said notices shall be in the form of a doorknob card or letter for activities that will affect access and operations. notices shall have time date for scheduled work at least 24 hours before the start of work.
- E. Contractor shall be responsible for adequate barricading of work area and controlling traffic in the vicinity of the work area
- F. Spillage resulting from hauling operations along or across any public traveled way will be removed immediately by the Contractor, at his expense. When entering or leaving roadways carrying public traffic, the Contractor's equipment, whether empty or loaded, will in all cases yield to public traffic.
- G. Special emphasis will be placed on the use of “Construction Zone Ahead” (C18R) signs at the beginning, end and all access and/or intersecting streets with roads under

construction. In addition to the construction zone signs, “Rough Road” (W33) signs will be used on all roads with a posted or marked bicycle trail.

Contractor will provide and maintain all signs, barricades, pedestals, flashers, delineators and other necessary facilities for the protection of the motoring public within the limits of the construction area and all its approaches, including advanced signing and barricades. He will also post proper signs to notify the public regarding the condition of the roadway, all in accordance with the provisions of the Vehicle Code and latest edition of the Manual of Uniform Traffic Control Devices (MUTCD), as published by the State of California, Department of Transportation.

- H. Flashing arrow signs, of the appropriate type per MUTCD, will be provided for all lane closures on all arterial highways and collector streets.
- I. Portable delineators, either conical (traffic cone) or tubular shaped plastic devices, with a minimum height of 28 inches will be used for delineation of the travel way.
- J. If the traffic cones or portable delineators are damaged, displaced or unacceptable for any reason by Inspector or are not in an upright position from any cause, said cones or portable delineators will immediately be replaced or restored to their original location, in an upright position, by Contractor.
- K. Contractor will maintain 11 Foot lanes of traffic in each direction at all times.
- L. Contractor will furnish such flagmen as are necessary to give adequate warning to traffic or to the public of any dangerous conditions to be encountered. Flagmen, while on duty and assigned to give warning to the public that the street is under construction and of any dangerous conditions to be encountered as a result thereof, will perform their duties and will be provided with the necessary equipment in accordance with the current "Instructions to Flaggers", by the State of California, Department of Transportation. The equipment will be furnished and kept clean and in good condition by the Contractor, at its expense.
- M. Should Contractor appear to be neglectful or negligent in furnishing warning and protective measures as provided, Inspector may direct attention to the existence of a hazard and necessary warning and protective measures will be furnished and installed by Contractor, at its expense. Should Inspector point out the inadequacy of warning and protective measures, such action on the part of Inspector will not relieve Contractor from responsibility for public safety or abrogate its obligation to furnish and pay for these devices.
- N. Contractor will maintain safe working conditions at each work location. At the end of each day, all equipment and other obstructions will be removed from the roadway. The contractor shall place temporary traffic markings (tabs) when any traffic markings are removed.
- O. **Full compensation for conforming to requirements of “Traffic Control” will be considered as included in the various items of work involved and no additional compensation will be allowed therefore.**
- P. If the Contractor is required to submit **Traffic Control Plan prepared and stamped by a Registered Civil or Traffic Engineer**, the Contractor **shall be reimbursed for the actual cost** of the preparation and implementation of the plan without mark-up or profit margin.

XIX. PROTECTION AND RESTORATION OF EXISTING AREAS

Contractor will protect all furnishings and improvements from damage by its operations. All damage will be Restored or replaced, at the option of County, at Contractor's expense within three (3) days after notification of such damage by Inspector. Restorations and/or replacements will be equal to original in all aspects.

XX. SAFETY

Contractor agrees to perform all work outlined in this Contract in such a manner as to meet all accepted standards for safe practices during operations and to maintain safe conditions or premises and ways at all times, including safely stored equipment, machines and materials. This includes compliance with local County, State or other legal intents and terms of the applicable OSHA and CAL/OSHA Safety orders at all times so as to protect all persons, including Contractor's employees and Agency against injury or damage to their property.

XXI. BEST MAINTENANCE PRACTICES (BMP):

- A. The Santa Ana and San Diego Regional Water Quality Control Boards (RWQCB) have issued permits which govern storm water and non-storm water discharges resulting from areas owned and operated by the County of Orange, Orange County Flood Control District and incorporated cities of Orange County (collectively referred to as Permittees). RWQCB Permits are National Pollutant Discharge Elimination System (NPDES) Permits No. R8-2002-0001 and R8-2009-0030, respectively. Copies of the RWQCB Permits are available for review.
- B. In order to comply with the Permit requirements, the Permittees have developed a Drainage Area Management Plan (DAMP) which contains Model Maintenance Procedures with Best Management Practices (BMPs) that parties conducting the municipal activities must adhere to. These Model Maintenance Procedures apply to any party conducting municipal activities and contain pollution prevention and source control techniques to minimize the impact of those activities upon dry weather urban runoff, storm water runoff, and receiving water quality.
- C. Work performed under this Contract will conform to the Permit requirements, the DAMP, and the Model Maintenance Procedures. Contractor will fully understand the Model Maintenance Procedures applicable to activities that are being conducted under this Contract prior to conducting them and maintain copies of the Model Maintenance Procedures throughout Contract duration.
- D. Work shall be performed in conformance with BMP; see fact sheet "Roads, Streets and Highways Operation and Maintenance" (FP-3) downloaded at: www.ocwatersheds.com/documents/bmp/municipalactivities
- E. Evaluation of activities subject to DAMP requirements performed under this Contract will be conducted to verify compliance with DAMP requirements and may be required through Contractor self-evaluation as determined by County.

XXII. PERMIT REQUIREMENTS

- A. The Contractor shall comply with the requirements of the following Permits, listed under Attachment "C. Permits":
 - 1. NPDES Permit No. CAS618030

2. NPDES Permit No. CAG919002
- B. The Contractor shall review all permit requirements and shall modify the construction schedule, modify construction access, provide temporary protection and modify construction practices as necessary to comply with the provisions of the Attachment "C. Permits".
- C. **Full compensation for complying with the requirements of Attachment "C. Permits"** (with the exception of the Construction Permit which will be paid for by County), **shall be included in the various items of work and no additional compensation will be allowed therefore.**

XXIII. DEWATERING

- A. Any groundwater that may be encountered shall be controlled and removed by methods of the Contractor's choice subject to the requirements of the California Regional Water Quality Control Board Individual Dewatering Permit, Section 401 Permit, and Flow and Acceptance of Water (see Section C).
- B. The dewatering system chosen shall relieve seepage pressure and keep the subgrade free from water. Regardless of the dewatering method chosen by the Contractor, the subgrade elevations shall be maintained. If the material at subgrade is unstable due to high moisture content, the Contractor shall remove the material and place fill at 90% Relative Compaction to re-establish the subgrade at no cost to the County. The Contractor may provide other methods of stabilization at subgrade at no cost to the County.
- C. The Contractor shall control the water level below the subgrade to prevent pumping of gravel base material.
- D. No discharge water quality problems are anticipated other than de-silting prior to discharging into the downstream portion of the channel. The cost of de-silting the discharge shall be included in the Contract price for dewatering.
- E. A de-silting basin will be required in at least one location to conform to the provisions of CRWQCB dewatering permit.
- F. **Full compensation for conforming to the requirements of "Dewatering" shall be included in the various items of work involved and no additional compensation will be allowed therefore.**

XXIV. UTILITIES

- A. The County has endeavored to locate and show on the plans the approximate locations of all private and public utilities and facilities to be encountered during construction. However, it is possible that, during the work, unknown substructures requiring relocation or protection may be encountered. Such unknown substructures will generally fall into two classes:
Class I - Those requiring relocation or protection at the expense of the owner, and
Class II - Those requiring relocation or protection at the expense of the County.
- B. For Class I utilities, the Contractor shall provide time and working space for protection or relocation activities and may be entitled to an extension of time for completion and/or extra compensation under the provisions of Subsection 5-5, "Delays."

- C. For Class II utilities, the County will make arrangements for the protection or relocation by the Owner or by the Contractor or by others. In the event either the protection or the relocation is to be accomplished by the Contractor, the procedures of Section 3, "Changes in Work," of the Standard Specifications shall be used. In the event protection or relocation is accomplished by the owner or by others, the Contractor shall provide time and working space and may be entitled to an extension of time for completion and/or extra compensation under the provisions of said Section 5-5, "Delays."
- D. In the event any such unknown substructures should be disturbed or damaged, by no fault of the Contractor exercising reasonable care, the Contractor shall at once make necessary emergency preservations at no cost to the Contractor. Permanent preservations, if necessary, and/or relocation will be arranged by the County at no cost to the Contractor.
- E. Where facilities are shown on the plans, "To Be Relocated by Others," the County will issue the owner a "Notice to Relocate" or, by County agreement with owner, require owner to relocate. In the event difficulties delay relocation, which in the judgment of the Inspector cannot reasonably be foreseen, and require a delay in Contractor's completion date after all reasonable remedies for keeping Contract on schedule have been exhausted by Contractor including, but not limited to flow-charts and critical path scheduling, work simplification, and alternative construction methods, Inspector may allow extra compensation and extra time to the Contractor.
- F. The Contractor shall protect facilities shown on the plans, "To Be Relocated by Others," in both original and relocated positions and any damage to such facilities shall be immediately fixed to the owner's satisfaction at no cost to the County.
- G. The Contractor's attention is directed to the utility notification service provided by Underground Service Alert (USA). USA member utilities will provide the Contractor with the locations of their substructures in the construction area when the Contractor gives at least two working days notice to the Underground Service Alert by calling 1-800-422-4133. The Contractor shall call USA prior to any work over substructures to allow owners to locate and/or obtain accurate "ties" on their manholes, valve covers, meter boxes, etc.
- H. **Full compensation for conforming to the requirements of "Utilities" shall be considered as included in the various items of work involved and no additional compensation will be allowed therefore.**

XXV. VERIFICATION OF UTILITY LOCATION AND DEPTH

- A. Prior to the commencement of work, the Contractor shall verify the location and depth of all utilities, including service laterals and service connections, which have been indicated on the plans or marked by the respective owners and which may affect or be affected by its operations.
- B. All utilities designated on the plans to be protected in place shall be carefully uncovered if located within the lines of excavation and time shall be allowed for the Inspector to field check the location of such utilities to make certain that they will not interfere with maintenance. In the event a utility conflict exists, the County will either arrange for utility owner to relocate the utility or adjust grade and/or alignment of the proposed improvement. In the event any such facility should be disturbed or damaged, the Contractor shall at once make restorations to the satisfaction of the owner, or arrange with the owner to make restorations, at no cost to the County. Any delays or reconstruction of

maintenance resulting from the Contractor's failure to verify utility locations and depths shall be made at the Contractor's expense.

- C. **Full compensation for “Verification of Utility Location and Depth” shall be considered as included in the various contract items of work involved and no additional compensation will be allowed therefore.**

XXVI. EXISTING FACILITIES

- A. This work shall consist of removing, relocating, or protecting existing facilities which interfere with maintenance. Removed facilities shall be disposed of, salvaged, relocated as specified in this Scope of Work, as shown on the Plans, or as directed by the Inspector.
- B. Trenches, holes, depressions and pits caused by the removal of highway facilities shall be backfilled with embankment material as provided in Section 300, "Earthwork", of the Standard Specifications. Such trenches, holes, depressions and pits that are in surfaced areas, otherwise to remain undisturbed, shall be backfilled with materials equal to or better in quality and to the same thickness as the surrounding materials.
- C. Material, shown on the plans or designated in this Scope of Work, which is to be salvaged or used in the maintenance work and which has been damaged or destroyed as a result of the Contractor's operations, shall be fixed or replaced by the Contractor, at his expense.
- D. Payment for these items shall be as described in Attachment B.

XXVII. HAND PATCH ASPHALT CONCRETE PAVEMENT

- A. Quantities and approximate sizes of “Hand Patch Asphalt Concrete Pavement” areas will vary for each location.
- B. Inspector will designate and mark the hand patch limits when preparing work request.
- C. Prior to placing the asphalt concrete, the area will be thoroughly cleaned by removing all loose and damaged material, moisture, dirt, and other foreign matter.
- D. Prior to placement of asphalt concrete, a tack coat of SS-1h emulsified asphalt will be uniformly applied to all contact surfaces at a rate of 0.05 gallon per square yard.
- E. Asphalt concrete used to hand patch the existing pavement will be AR-4000 and will conform to the provisions of OCPW Standard Plan 1805 and this Scope of Work.
- F. Asphalt concrete will not be placed when the atmospheric temperature is below 50 degrees Fahrenheit or during unsuitable weather.
- G. Contractor will notify Inspector via phone and/or e-mail at the end of the working day when striping and/or stenciling are damaged as a result of asphalt concrete maintenance/repair.
- H. **Full compensation for conforming to the requirements of “Hand Patch Asphalt Concrete Pavement” including:**
 - 1. **Cleaning and preparing the surface area to be patched;**
 - 2. **Applying the tack coat to the surface;**

3. **Placement and compaction of asphalt concrete pavement; and,**
4. **Furnishing all labor, materials including asphalt concrete, tools, equipment and incidentals necessary to perform the work will be considered as included in Contract unit price bid per “Square Foot” in accordance with this Scope of Work and no additional compensation will be allowed therefore.**

XXVIII. REMOVE AND REPLACE ASPHALT CONCRETE PAVEMENT

- A. Quantities and approximate sizes of “Remove and Replace Asphalt Concrete Pavement” areas will vary for each project.
- B. Inspector will designate and mark the remove and replace asphalt concrete pavement limits when preparing work request.
- C. Spalled or loose blocks of pavement and pavement cracks wider than 3/8” may be deemed justification for extending or adding new areas to the “Remove and Replace Asphalt Concrete Pavement”. Contractor must notify the Inspector when the limits marked on the pavement appear incorrect. Inspector will notify Contractor of the decision within four hours of notification.
- D. Areas indicated for “Remove and Replace Asphalt Concrete Pavement” will be saw cut and excavated to the full depth of the existing asphalt concrete, a minimum of 4” on local streets and 6” on arterial and collector streets, to include aggregate base and/or native soil. Additional aggregate base and/or native soil will be removed to permit correction of a subsurface problem.
- E. Asphalt pavement will be removed to clean straight lines before replacement to ensure that all areas are accessible to equipment used to compact replacement materials. Subgrade will be compacted to a relative compaction of not less than ninety-five (95) percent.
- F. All materials removed will be disposed of outside of the right-of-way, which will be left with a clean and finished appearance.
- G. Prior to placement of asphalt concrete, a tack coat of SS-1h emulsified asphalt will be uniformly applied to all contact surfaces at a rate of 0.05 gallon per square yard.
- H. Asphalt concrete used for replacement of existing pavement will be AR-4000 and will conform to the provisions of OCPW Standard Plan 1805 and this Scope of Work. Replacement will be made full depth with asphalt concrete. Depth of 4” or more requires two lifts.
- I. Asphalt concrete will not be placed when the atmospheric temperature is below 50 degrees Fahrenheit or during unsuitable.
- J. Asphalt concrete will not be placed when the Rain is forecasted for the day of the maintenance/repairs or during any unsuitable weather.
- K. Contractor shall place temporary traffic markings (tabs) when any traffic markings are removed.

- L. Contractor shall supply the necessary equipment or material to eliminate/ minimize asphalt tracking for Job site
- M. Contractor will notify Inspector, at the end of the working day when striping and/or stenciling are damaged as a result of asphalt concrete maintenance/repairs.
- N. **Full compensation for conforming to requirements of “Remove And Replace Asphalt Concrete Pavement” including:**
 - 1. **Saw cutting;**
 - 2. **Removal and disposal of pavement, base material, and/or native soil;**
 - 3. **Compaction of sub-grade;**
 - 4. **Placement of tack coat;**
 - 5. **Placement and compaction of asphalt concrete pavement; and,**
 - 6. **Furnishing all labor, materials including asphalt concrete, tools, equipment and incidentals necessary to perform the work will be considered as included in Contract unit price bid per “Square Foot” in accordance with this Scope of Work and no additional compensation will be allowed therefore. There are 27 pay items for this Section: price per “Square Foot” for 4” to 30”, for areas less than 100 S.F. or area greater than 100 S.F.**

XXIX. REPLACEMENT ONLY ASPHALT CONCRETE PAVEMENT

- A. Quantities and approximate sizes of “replacement of Asphalt Concrete Pavement” areas will vary for each project.
- B. Inspector will designate and mark the remove and replace asphalt concrete pavement limits when preparing work requests.
- C. Areas will have asphalt removed prior to placement of asphalt, the contractor will need to Replace Asphalt Concrete Pavement only”. The contractor must notify the Inspector when the limits marked on the pavement appear incorrect. Inspector will notify the Contractor of the decision within four hours of notification. In some cases, coordination with county inspectors will be needed to remove Steel plates from the roadway. The contractor may be required to remove steel plates and place them to a safe area within the project area.
- D. Areas indicated for “Replacement of Asphalt Concrete Pavement” will require the full depth of the existing asphalt concrete, a minimum of 2” to a maximum of 10”. In most cases, aggregate base and/or native soil will be replaced by county staff.
- E. Subgrade will be compacted to a relative compaction of not less than ninety-five (95) percent.
- F. All materials replaced will be left with a clean and finished appearance.
- G. Prior to placement of asphalt concrete, a tack coat of SS-1h emulsified asphalt will be uniformly applied to all contact surfaces at a rate of 0.05 gallon per square yard.

- H. Asphalt concrete used for replacement of existing pavement will be AR-4000 and will conform to the provisions of OCPW Standard Plan 1805 and this Scope of Work. The replacement will be made full depth with asphalt concrete. Depth of 4” or more requires two lifts.
- I. Asphalt concrete will not be placed when the atmospheric temperature is below 50 degrees Fahrenheit or during unsuitable.
- J. Asphalt concrete will not be placed when the Rain is forecasted for the day of the maintenance/repairs or during any unsuitable weather.
- K. The contractor shall place temporary traffic markings (tabs) when any traffic markings are removed.
- L. The contractor shall supply the necessary equipment or material to eliminate/ minimize asphalt tracking for Job site
- M. The contractor will notify Inspector, at the end of the working day when striping and/or stenciling are damaged as a result of asphalt concrete maintenance/repairs. When asphalt replacement is not being done on the same day, the contractor shall place temporary traffic markings (tabs) when any traffic markings are removed.
- N. **Full compensation for conforming to requirements of “Replacement of Asphalt Concrete Pavement” including:**
 - 1. **Removal and disposal of the base material, and/or native soil;**
 - 2. **Compaction of sub-grade;**
 - 3. **Placement of tack coat;**
 - 4. **Placement and compaction of asphalt concrete pavement; and,**
 - 5. **Furnishing all labor, materials including asphalt concrete, tools, equipment and incidentals necessary to perform the work will be considered as included in Contract unit price bid per “Square Foot” in accordance with this Scope of Work and no additional compensation will be allowed, therefore. There are 13 pay items for this Section: price per “Square Foot” for 2” to 14”, for areas less than 100 S.F. or area greater than 100 S.F**

XXX. TYPE D1 ASPHALT CONCRETE CURB

- A. County may request replacement or installation of either 6” or 8” high asphaltic concrete curb conforming to the requirements of “Type D1 Curb” per OCPW Standard Plan 120-2
- B. Inspector will designate and mark location and limits for the curb and specify size as either 6” or 8” curb face.
- C. Prior to placing asphalt concrete on existing pavement, the area will be thoroughly cleaned by removing all dirt, moisture and other foreign matter, including washing as necessary, and will install a uniformly applied tack coat of SS-1h emulsified asphalt to all contact surfaces of the existing pavement at a rate of 0.05 gallon per square yard.
- D. Asphalt concrete for curbs will be AR-4000 or AR-8000 and will conform to the provisions of OCPW Standard Plan 1805 (see “Notes, Special Provisions and Miscellaneous Details”).

- E. **Full compensation for conforming to requirements of “Type D1-Asphalt Concrete Curb” including:**
1. **Removing existing asphaltic concrete curb (if necessary);**
 2. **Cleaning and preparing the surface location of the new curb;**
 3. **Applying the tack coat to the surface;**
 4. **Placement and compaction of asphalt concrete material using a machine specifically manufactured for asphalt concrete curb construction; and,**
 5. **Furnishing all labor, material including asphalt concrete, tools, equipment and incidentals necessary to perform the work will be considered in Contract unit price bid per “Linear Foot” in accordance with this Scope of Work and no additional compensation will be allowed therefore. There are two pay items for this Section, price per Foot for 6” high curb and for 8” high curb.**

XXXI. PAVE ROAD DITCHES 3 INCH

- A. Quantities and approximate sizes of pave road ditches will vary for each project.
- B. Inspector will designate and mark exact limits of each road ditch location to be paved.
- C. Contractor is responsible for reshaping or re-grading existing road ditches as necessary to ensure that water has positive flow in completed paved ditch and that compacted asphalt depth will be a minimum of 3” thick on all surfaces. Loose materials and all vegetation will be removed prior to beginning paving. Where additional fill material is required to shape the ditch prior to paving, it will be compacted to a relative compaction of not less than ninety (90) percent.
- D. All materials removed will be properly disposed of by Contractor and not left on County property. Completed project will be left with a clean and finished appearance.
- E. Prior to placement of asphalt concrete, a tack coat of SS-lh emulsified asphalt will be uniformly applied to all pavement contact surfaces at a rate of 0.05 gallon per square yard.
- F. Asphalt concrete used for paving road ditches will be AR-4000 or AR-8000 and will conform to the provisions of OCPW Standard Plan 1805 and this Scope of Work.
- G. Pavement will be made with a full depth of 3” with asphalt concrete.
- H. Asphalt concrete will not be placed when atmospheric temperature is below 50 degrees Fahrenheit or during unsuitable weather.
- I. Particular care will be taken to ensure the edge of new asphalt paved ditch adjacent to existing paved road edge is flush with existing pavement edge so as to not pond water on road pavement surface or create a drop off at end of road surface.
- J. Opposite edge of the road ditch will be slightly below the edge of adjacent ground surface to ensure positive run off into the paved ditch. Pavement edge may be between ½” and 1½” below existing ground surface.

- K. Invert of the paved ditch must be sloped to drain. The maximum depth of ponded water in finished paved invert is ½”.
- L. **Full compensation for conforming to requirements of “Pave Road Ditches 3 Inch” including:**
 - 1. **Re-grading of existing earth ditch;**
 - 2. **Removal and disposal of all vegetation, trash debris, loose or excess soil;**
 - 3. **Refilling eroded areas of slope as necessary including furnishing material and re-compacting to 90%;**
 - 4. **Placement of a tack coat along edge of existing road pavement and other paved areas;**
 - 5. **Placement and compaction of asphalt concrete pavement; and,**
 - 6. **Furnishing all labor, materials including asphalt concrete, tools, equipment and incidentals necessary to perform the work will be considered as included in Contract unit price bid per “Square Foot” in accordance with this Scope of Work and no additional compensation will be allowed therefore.**

XXXII. REMOVE AND REPLACE EXISTING 3 INCH ROAD DITCHES

- A. Quantities and approximate sizes of “Remove and Replace Existing 3 Inch Road Ditches” areas will vary for each location.
- B. Inspector will designate and mark exact limits of each road ditch to be removed and replaced when preparing work request.
- C. Contractor is responsible for removing existing asphalt, reshaping or re-grading as necessary to ensure that water has positive flow in the completed paved ditch and that compact asphalt depth will be a minimum of 3" thick asphalt on all surfaces. Loose materials and all vegetation will be removed prior to beginning paving. Where additional fill is required to shape the ditch prior to paving it will be compacted to a relative compaction of not less than ninety (90) percent.
- D. All materials removed will be properly disposed of by Contractor and not left on County property. Completed project will be left with a clean and finished appearance.
- E. Prior to placement of asphalt concrete, a tack coat of SS-1h emulsified asphalt will be uniformly applied to all contact surfaces at a rate of .05 gallon per square yard.
- F. Asphalt concrete used to for replacement of paving road ditches will be AR-4000 or AR-8000 and will conform to the provisions of OCPW Standard Plan 1805 and this Scope of Work.
- G. Asphalt concrete will not be placed when atmospheric temperature is below 50 degrees Fahrenheit or during unsuitable weather.

- H. Particular care will be taken to ensure the edge of new asphalt paved ditch adjacent to existing paved road edge is flush with existing pavement edge so as to not pond water on the road pavement surface or create a drop off at the end of road surface.
- I. Opposite edge of road ditch will be slightly below edge of the adjacent ground surface to ensure positive run off into paved ditch. Pavement edge may be between ½" and 1½" below existing ground surface.
- J. Invert of the paved ditch must be sloped to drain. The maximum depth of ponded water in finished paved invert is ½”.
- K. **Full compensation for conforming to requirements of “Remove And Replace Existing 3 Inch Road Ditches” including:**
 - 1. **Saw cutting as necessary;**
 - 2. **Removal and disposal of pavement, base materials and/or native soil;**
 - 3. **Removal and disposal of all vegetation, trash debris, loose or excess soil;**
 - 4. **Refilling eroded areas of slope as necessary including furnishing material and re-compacting to 90% relative compaction;**
 - 5. **Placement of a tack coat along edge of existing road pavement and other paved areas;**
 - 6. **Placement and compaction of asphalt concrete pavement; and,**
 - 7. **Furnishing all labor and materials including asphalt concrete, tools, equipment and incidentals necessary to perform the work will be considered as included in Contract unit price bid per “Square Foot” in accordance with this Scope of Work and no additional compensation will be allowed therefore.**

XXXIII. PAVE ROAD SHOULDERS 4 INCH

- A. Quantity and approximate sizes of “Pave Road Shoulders 4 Inch” will vary from each project.
- B. Inspector will designate and mark exact limits of road shoulder to be paved.
- C. Areas indicated for paving of road shoulder will be excavated or reshaped and re-compacted as necessary to provide for 4” of compacted asphalt concrete. Subgrade will be compacted to a relative compaction of not less than ninety-five (95) percent.
- D. All materials removed will be properly disposed of by Contractor and not left on County property. Completed project will be left with a clean and finished appearance.
- E. Prior to placement of asphalt concrete, a tack coat of SS-1h emulsified asphalt will be uniformly applied to all pavement contact surfaces at a rate of 0.05 gallon per square yard.
- F. Asphalt concrete used for replacement of paving of road shoulder will be AR-4000 and will conform to the provisions of OCPW Standard Plan 1805 and this Scope of Work.

- G. Placement will be made full depth with asphalt concrete.
- H. Asphalt concrete will not be placed when atmospheric temperature is below 50 degrees Fahrenheit or during unsuitable weather.
- I. Contractor will notify Inspector at end of the working day when striping and/or stenciling are damaged as a result of asphalt concrete maintenance/repairs.
- J. **Full compensation for conforming to requirements of “Pave Road Shoulders 4 Inch” including:**
 - 1. **Saw cutting as necessary;**
 - 2. **Removal and disposal of pavement, base material, and/or native soil;**
 - 3. **Compaction of sub-grade;**
 - 4. **Placement of tack coat along edge of existing road pavement and other paved areas;**
 - 5. **Placement and compaction of asphalt concrete pavement; and,**
 - 6. **Furnishing all labor and materials including asphalt concrete, tools, equipment and incidentals necessary to perform the work will be considered as included in Contract unit price bid per “Square Foot” in accordance with this Scope of Work and no additional compensation will be allowed therefore.**

XXXIV. REMOVE AND REPLACE EXISTING 4 INCH ROAD SHOULDER

- A. Quantities and approximate sizes of “Remove and Replace Existing 4 inch Road Shoulder” areas will vary for each location.
- B. Inspector will designate and mark exact limits of each road shoulder to be removed and replaced when preparing work request.
- C. Areas indicated for removing and replacing of road shoulder will be excavated or reshaped and re-compacted as necessary to provide for 4" of compacted asphalt concrete. Subgrade will be compacted to a relative compaction of not less than ninety-five (95) percent.
- D. All materials removed will be properly disposed of by Contractor and not left on County property. Completed project will be left with a clean and finished appearance.
- E. Prior to placement of asphalt concrete, a tack coat of SS-1h emulsified asphalt will be uniformly applied to all contact surfaces at a rate of .05 gallon per square yard.
- F. Asphalt concrete used to for replacement of paving road shoulders will be AR-4000 and will conform to provisions of OCPW Standard Plan 1805 and this Scope of Work.
- G. Asphalt concrete will not be placed when atmospheric temperature is below 50 degrees Fahrenheit or during unsuitable weather.

- H. Contractor will notify Inspector at end of the working day when striping and/or striping and/or stenciling are damaged as a result of asphalt concrete maintenance/repairs.
- I. **Full compensation for conforming to requirements of “Remove And Replace Existing 4 inch Road Shoulder” including:**
 - 1. **Saw cutting as necessary;**
 - 2. **Removal and disposal of pavement, base material, and/or native soil;**
 - 3. **Compaction of subgrade;**
 - 4. **Placement of tack coat along edge of existing road pavement and other paved areas;**
 - 5. **Placement and compaction of asphalt concrete pavement; and,**
 - 6. **Furnishing all labor and materials including asphalt concrete, tools, equipment and incidentals necessary to perform the work will be considered as included in Contract unit price bid per “Square Foot” in accordance with this Scope of Work and no additional compensation will be allowed therefore.**

XXXV. FOG SEAL

- A. Quantities and approximated sizes of “Fog Seal” areas will vary for each project.
- B. Inspector will designate and mark exact limits of each area to be fog sealed.
- C. Fog seal will be SS-1h type emulsified asphalt and uniformly applied at a rate of 0.05 gallons per square yard to all exposed surfaces of existing asphalt concrete (such as berms, v-ditches, sidewalks, driveway approaches, etc.). All loose materials and vegetation will be removed prior to spraying.
- D. Fog seal will not be applied when atmospheric temperature is below 40 degrees Fahrenheit or when humidity is greater than 70 percent.
- E. **Full compensation for conforming to requirements of “Fog Seal” including:**
 - 1. **Removing all loose materials and vegetation;**
 - 2. **Cleaning and preparing the surface location;**
 - 3. **Applying fog seal to the surface; and,**
 - 4. **Furnishing all labor, materials including fog seal, tools, equipment and incidentals necessary to perform the work will be considered as included in Contract unit price bid per “Square Foot” in accordance with this Scope of Work and no additional compensation will be allowed therefore.**

XXXVI. CRACK SEALANT MATERIAL

- A. Unless otherwise specified, asphalt rubber sealant material will be hot-applied, elastically modified asphalt, and will meet the following requirements:

Property	Test Specification	Requirement
Cone Penetration (@77 Degrees Fahrenheit)	ASTM D3407	15-45
Softening Point	ASTM D36	200 Degrees Fahrenheit
Resilience	ASTM D3407	30 percent
Ductility (77 Degrees Fahrenheit)	ASTM D113	30 Centimeters minimum

- B. Asphalt rubber sealant material will be accompanied by a certificate of compliance from the manufacturer.
- C. **This item to be used only in conjunction with crack seal routed or crack seal**
- D. County reserves the right to furnish, at County expense, a different sealant material for particular applications.

XXXVII. CRACK SEAL - ROUTED

- A. Quantity of “Crack -Routed” will vary from each project. Inspector will supply estimated quantity only.
- B. Sealant will not be placed when pavement temperature is below 40 degrees Fahrenheit or during unsuitable weather.
- C. Cracks in size from 1/8” and greater in width will be widened using a router to form a sealant reservoir which is at least 1/2" wide and 3/4" to 1” deep. The routed crack will then be cleaned with compressed air to remove all dust and free moisture immediately prior to filling.
- D. Contractor will protect all existing utility covers, traffic loop detectors and pullboxes during routing operation and will fix or replace any damaged facilities to its original condition. Existing facilities will include but not be limited to the above items.
- E. All debris resulting from crack routing will be removed from the roadway by hand or mechanical sweeping prior to the end of each work day.
- F. Sealant will be placed to ensure the bottom of crack is filled first with sealant continuing to the pavement surface in a manner which does not result in sealant bridging or entrapping air pockets. With deep cracks, settlement may occur, thus requiring application of a second layer of sealant. Level of sealant will be allowed to be slightly below the level of existing pavement. All excess sealant will be removed from crack with a minimum overlap onto adjacent pavement.
- G. Contractor will furnish and spread sufficient sand necessary to eliminate tracking or damage to crack sealant. On all arterial highways where sand will be applied over fresh crack sealant, Contractor will post "Loose Gravel" (C6) construction signs. Signs will be posted from commencement of crack sealing until all sand has been cleaned from roadway. Contractor will remove all sand by sweeping within 24 hours after opening street to traffic.

- H. **Full compensation for conforming to requirements of “Crack Seal –Routed” including:**
1. **Crack routing;**
 2. **Crack cleaning;**
 3. **Application of sealant; and,**
 4. **Furnishing all labor, materials, exclusive of sealant, tools, equipment and incidentals necessary to perform the work will be considered as included in Contract unit price bid per “Linear Foot” in accordance with this Scope of Work and no additional compensation will be allowed therefore.**

XXXVIII. CRACK SEAL – NON-ROUTED

- A. Quantity of “Crack seal: Non-Routed” will vary from each project. Inspector will supply estimated quantity only.
- B. County may, at its option specify an alternative method of crack cleaning and filling.
- C. Sealant will not be placed when the pavement temperature is below 40 degrees Fahrenheit or during unsuitable weather.
- D. Under this method cracks will be cleaned and dried by use of a high pressure hot air wand with a minimum pressure of 120 PSI heated to 350°F with all loose material blown from the crack and the adjacent pavement dried and heated to improve adhesion of the sealant. All loose material will be swept from pavement surface and disposed of by Contractor.
- E. Sealant will be placed while crack surface is still hot to increase adhesion of the sealant to existing pavement. Sealant will be placed to ensure the bottom of the crack is filled first with sealant continuing to pavement surface in a manner which does not result in sealant bridging or entrapping air pockets. With deep cracks, settlement may occur, thus requiring the application of a second layer of sealant. Level of the sealant will be allowed to be slightly below the level of existing pavement.
- F. All excess sealant will be removed from the crack with a minimum overlap onto adjacent pavement.
- G. Contractor will furnish and spread sufficient sand necessary to eliminate tracking or damage to crack sealant. On all arterial highways where sand will be applied over fresh crack sealant, Contractor will post "Loose Gravel" (CG) construction signs. Signs will be posted from commencement of crack sealing until all sand has been cleaned from roadway. Contractor will remove all sand by sweeping within 24 hours after opening the street to traffic.
- H. **Full compensation for conforming to requirements of “Crack Seal: Non-Routed” including:**
1. **Crack cleaning and heating;**
 2. **Application of sealant;**

3. **Removal of debris; and,**
4. **Furnishing all labor, materials (exclusive of sealant) tools, equipment and incidentals necessary to perform the work will be considered as included in Contract unit price bid per "Linear Foot" in accordance with this Scope of Work and no additional compensation will be allowed therefore.**

XXXIX. APPLICATION OF "PERCOL" SEALANT

- A. County may specify the application of "Percol" brand sealant for particular applications. This may include filling unusually wide cracks or as a surface treatment on the pavement to fix damaged pavement without disruption of traffic signal loops in the pavement. Application will be by personnel trained and qualified in the application of Percol.
- B. **Full compensation for conforming to the requirements of "Application Of "Percol" Sealant" including:**
 1. **Cleaning of the surface to be sealed, cracks and/or pavement surface;**
 2. **Application of "Percol" sealant; and,**
 3. **Furnishing all labor, materials, tools, equipment and incidentals necessary to perform the work will be considered as included in Contract unit price per "Gallon" in accordance with this Scope of Work and no additional compensation will be allowed therefore.**

XL. UNTREATED BASE MATERIAL

- A. Untreated base will be used where directed by Inspector and/or Engineer to correct a subsurface problem or where required minor paving work justifies its use.
- B. Untreated base to be used for the base course under asphalt concrete pavement will conform to Section 200-2 and OCPW Standard Plan 1804.
- C. Payment for "Untreated Base Material" will be made at Contract unit price per TON which will include full compensation for furnishing all material required in accordance with the plans and these special provisions and no additional compensation will be allowed therefore. This item includes removal of native/existing material below the depth of excavation for new asphalt included.
- D. Quantity set forth in bid item for "Untreated Base Material" is an anticipated amount only to establish a unit price. No adjustment in compensation will be made in Contract unit price for "Untreated Base Material" regardless of the amount or reason for the increase or decrease in quantity of these items required. Provisions in Section 3-2, "Change Initiated by the Agency," of the Standard Specifications will not apply to the item of "Untreated Base Material".

XLI. COLD MILLING OF ASPHALT CONCRETE PAVEMENT

- A. Quantities and approximate sizes of Cold Milling areas will vary for each project.
- B. Inspector will designate and mark exact limits of each area to be cold milled.
- C. Areas indicated for Cold Milling may be anywhere from 0" to 3" in depth.

- D. “Cold Milling of Asphalt Concrete Pavement” will be in accordance with Section 302-5-2 of the Standard Specifications.
- E. While all material removed by Cold Milling operations will be considered property of Contractor and disposed of by Contractor at his expense, County, at its option, may identify and offer disposal sites to Contractor when County has a potential for reuse of cold milled material. Contractor’s use, at his option, of County disposal sites will not result in a change of unit price of “Cold Milling of Asphalt Concrete Pavement”.
- F. **Full compensation for conforming to requirements of “Cold Milling Of Asphalt Concrete Pavement” including:**
 - 1. **Cold milling of asphalt;**
 - 2. **Removal of debris from work area; and,**
 - 3. **Furnishing all labor, materials including fog seal, tools, equipment and incidentals necessary to perform the work will be considered as included in Contract unit price bid per “Square Foot” in accordance with this Scope of Work and no additional compensation will be allowed therefore.**

XLII. PAVEMENT REINFORCEMENT FABRIC

- A. Work will consist of placing reinforcing fabric over existing pavement and/or between layers of pavement on leveling course and overlay if specified on work order for a particular location.
- B. “Pavement Reinforcing Fabric” will conform to special provisions in OCPW Standard Plan 1808, to the Special Provisions and the following:
 - 1. Asphalt cutbacks will not be used in the asphalt binder
 - 2. Binder application should be accomplished with an asphalt distributor for all surfaces and will be applied at a temperature of not less than 295 degrees Fahrenheit, nor more than 325 degrees Fahrenheit, the exact temperature to be determined by the Inspector
 - 3. Fabric can withstand direct application of asphalt concrete up to 300 degrees Fahrenheit without shrinkage or damage. Asphalt concrete will be placed at as high a temperature as practicable, but will not exceed 300 degrees Fahrenheit

Note: Where the narrow strip of pavement reinforcing fabric is required over the joint between a concrete median curb and the asphalt pavement, a tack coat of 0.45 gallon per square yard of SS-1h may be used.
- C. Prior to placing pavement reinforcing fabric, all raised pavement markers will be removed.
- D. Pavement reinforcing fabric will be placed in standard 6½’ wide and 12½’ wide increments to most closely approximate actual pavement width, unless specifically designated on the plans or directed by the Inspector.

- E. Public traffic will not be allowed on the bare reinforcing fabric, except that public cross traffic will be allowed to cross the fabric, under traffic control, after Contractor has broadcast a small quantity of asphalt concrete over the fabric.
- F. Pavement reinforcement fabric will be measured for payment by the square yard of existing pavement covered and no payment will be made for laps.
- G. **Full compensation for conforming to requirements of “Pavement Reinforcement Fabric” including:**
 - 1. **Cleaning and preparing the surface location;**
 - 2. **Applying tack coat to surface;**
 - 3. **Placing fabric; and,**
 - 4. **Furnishing all labor, materials including fog seal, tools, equipment and incidentals necessary to perform work will be considered as included in Contract unit price bid per “Square Yard” in accordance with this Scope of Work and no additional compensation will be allowed therefore.**

XLIII. ASPHALT CONCRETE RAMP ON CONCRETE SIDEWALK

- A. County ramps raised sidewalk panels over ½” with asphalt concrete.
- B. Quantities and approximate sizes of Asphalt Concrete Ramp on Concrete Sidewalk areas will vary for each location.
- C. Inspector will designate and mark the area when preparing work request.
- D. Prior to placing asphalt concrete, area will be thoroughly cleaned by removing all loose and damaged materials, moisture, dirt and other foreign matter.
- E. Prior to placement of asphalt concrete, a tack coat of SS-1h emulsified asphalt will be uniformly applied to all contact surfaces at a rate of .05 gallon per square yard.
- F. Asphalt concrete used to ramp the sidewalk panel will be AR-4000 or AR-8000 and will conform to the provisions of OCPW Standard Plan 1805 and this Scope of Work.
- G. DELETE paragraph four of Subsection 302-5.5, “Distribution and Spreading”, and SUBSTITUTE the following:

Asphalt concrete will not be placed when the atmospheric temperature is below 50 degrees Fahrenheit or during unsuitable weather.

Contractor will furnish and spread sufficient sand necessary to eliminate tracking.
- H. **Full compensation for conforming to requirements of “Asphalt Concrete Ramp On Concrete Sidewalk” including:**
 - 1. **Cleaning and preparing the surface area to be ramped;**
 - 2. **Applying tack coat to surface;**

3. **Placing and compacting the asphalt concrete pavement; and,**
4. **Furnishing all labor and materials including asphalt concrete, tools, equipment and incidentals necessary to perform the work will be considered as included in Contract unit price bid per “Square Foot” in accordance with this Scope of Work and no additional compensation will be allowed therefore.**

XLIV. PAVE ASPHALT CONCRETE SLOT WITHIN THREE (3) WORKING DAYS

- A. It is the responsibility of Contractor to fill in the asphalt slot area behind new concrete installation. Contractor will be notified by email with location, square footage and depth and has three (3) days after notification to have the area backfilled with asphalt concrete (not including weekends or holidays). Quantities and approximate sizes of areas will vary for each location. Areas will be ready for new asphalt installation with no other work required, except in front of a drive approach where base material may be required to be removed. Contractor will notify Inspector upon completion so that barricades may be picked up.
- B. All materials removed will be properly disposed of by Contractor and not left on County property. Completed project will be left with a clean and finished appearance.
- C. Prior to placement of asphalt concrete, a tack coat of SS-1h emulsified asphalt will be uniformly applied to all contact surfaces at a rate of 0.05 gallon per square yard.
- D. Asphalt concrete used for PAVE AC SLOT will be AR-4000 and will, conform to provisions of OCPW Standard Plan 1805 and this Scope of Work.
- E. Asphalt concrete will not be placed when the atmospheric temperature is below 50 degrees Fahrenheit or during unsuitable weather.
- F. **Full compensation for conforming to requirements of “Pave Asphalt Slot Within 3 Working Days” including:**
 1. **Removal and disposal of base material (as needed);**
 2. **Compaction of sub-grade;**
 3. **Placement of tack coat;**
 4. **Placement and compaction of asphalt concrete pavement; and,**
 5. **Furnishing all labor and materials including asphalt concrete, tools, equipment and incidentals necessary to perform the work will be considered as included in Contract unit price bid per “Square Foot” in accordance with this Scope of Work and no additional compensation will be allowed therefore. There are two pay items for this Section, price per Square Foot for 4” and 6” depths.**

XLV. SPEED BUMP INSTALLATION

- A. There are occasions when speed bumps are requested by parks. Inspector will designate and mark each location where a speed bump is requested. Speed Bump exhibits that

depict a sample style requested will be provided and actual placement will vary and be approved by Inspector.

- B. Prior to placing asphalt concrete on existing pavement, the area will be thoroughly cleaned by removing all dirt, moisture and other foreign matter, including washing as necessary, and will install a uniformly applied tack coat of SS-h emulsified asphalt to all contact surfaces of existing pavement at a rate of 0.05 gallon per square yard.
- C. This work shall conform to Section 302-5, "Asphalt Concrete Pavement," of the Standard Specifications, OCPW Standard Plan 1805 and this Scope of Work.
- D. Asphalt concrete shall be C2-AR-4000.
- E. **Full compensation for conforming to requirements of "Speed Bump Installation" including:**
 - 1. **Removal and disposal of existing speed bump;**
 - 2. **Cleaning and preparing existing pavement for a new speed bump;**
 - 3. **Providing all traffic control;**
 - 4. **Forming and placing and compacting new asphalt concrete speed bump; and,**
 - 5. **Furnishing all labor, materials, tools, equipment and incidentals necessary to perform work will be considered as included in Contract unit price bid per "Square Foot" in accordance with this Scope of Work and no additional compensation will be allowed therefore.**

XLVI. RUBBERIZED EMULSION-AGGREGATE SLURRY (REAS)

- A. General:
 - 1. Slurry seal with rubberized emulsion shall conform to the requirements of the Standard Specifications and Section 600-3, "Rubberized Emulsion – Aggregate Slurry," of the Standard Specifications for Public Works Construction, and this Scope of Work.
 - 2. Slurry seal with rubberized emulsion shall be "Flex Seal" slurry seal, manufactured by Petrochem Marketing, Inc., 3033 Washington Boulevard, Los Angeles, California, (323) 526-4078. An equal product such as Tire Rubber Modified Slurry Seal (TRMSS) can be substituted, subject to approval by the Engineer.
- B. Material:
 - 1. The Rubberized Polymer Modified Emulsion (RPME) shall be slow-set emulsion and shall contain asphalt, crumb rubber, and polymer modifiers.
 - 2. At the time of delivery of each shipment of RPME or REAS, the Contractor shall deliver to the County certified copies of the test report. The test report shall indicate the name of the vendor, type and grade of asphalt emulsion delivered, date and point of delivery, quantity delivered, delivery ticket number, purchase

order number, latex brand, designation and rate mixed with the emulsified asphalt, and results of the specified tests. The test report shall be signed by an authorized representative of the vendor, shall certify that the product delivered conforms to the standard specifications and is compatible with the proposed aggregate. At the request of the Engineer, samples of the emulsion at the stockpile site or the plant will be tested to determine compliance with the above requirements. Testing shall be accomplished by an accredited materials testing laboratory approved by the Engineer. Records of the test results shall be provided to the Engineer and the testing required in connection with those results and all additional testing shall be provided by the Contractor at no cost to the County.

3. No material from that shipment of RPME or REAS shall be utilized or employed in performance of the work until the certified test reports and samples of the material have been furnished to, checked by, and approved by the Engineer to determine their conformity with the prescribed requirements. Delays by the Contractor in furnishing the required test reports will not be grounds for any extension of contract time.

4. Composition of REAS

Aggregate Type	RPME % of Dry Aggregate Weight	Residual RPME % of Dry Aggregate Weight	Pounds of Dry Aggregate per Gallon of RPME
Fine Slurry Aggregate	60 - 80	30 - 40	10.6 – 14.2
Type I Slurry Aggregate	50 - 75	25 - 38	11.3 – 17.0
Type II Slurry Aggregate	28 - 35	24 - 36	21.3 – 28.3

5. For continuous flow mixing, the Contractor shall schedule and coordinate the delivery of aggregate to the stockpile(s) such that: (1) deliveries originate at the plant and arrive at the stockpile site no earlier than 7:00 A.M. or later than 4:00 P.M. on the same calendar day, (2) delivery site and project name are explicitly stated on each delivery ticket, (3) successive deliveries on the same calendar day show the cumulative total for that day, (4) copies of all delivery tickets are delivered to the Engineer before the end of the working day, whereas any delivery tickets not so delivered may be rejected by the Engineer. Any deviation from this process must have the prior approval of the Engineer.

6. Type I aggregate shall be used.

7. Gradation of Aggregates

	% By	Weight Passing Sieve	Size
Sieve Size	Fine Slurry Aggregate	Type I Slurry Aggregate	Type II Slurry Aggregate
9.5mm (3/8 in.)	100	100	100
4.75mm (No. 4)	100	100	90 – 100

	% By	Weight Passing Sieve	Size
Sieve Size	Fine Slurry Aggregate	Type I Slurry Aggregate	Type II Slurry Aggregate
2.36mm (No. 8)	95 – 100	90 - 100	65 – 90
1.18mm (No. 16)	75 – 92	65 – 90	45 – 70
600 µm (No.30)	50 -75	40- 60	30 -50
300 µm (No. 50)	35 -50	25 – 42	18 – 36
150 µm (No 100)	15 -30	15 -30	10 – 24
75 µm (No. 200)	10 – 20	10 – 20	5 – 15

C. Mix Design:

1. At least 15 working days prior to starting the placement of slurry seal, the Contractor, at its expense, shall submit a current signed original of mix designs and the test results of the slurry components, which include aggregate, emulsion, water, and additives. Test results shall include Consistency Test, Set Time, Cure Time, and the Wet Track Abrasion Test (WTAT). All testing shall be performed with samples that are representative of the actual materials to be used.
2. All material testing and mix designs shall be performed by a qualified laboratory, approved by the Engineer, and capable of performing the applicable ASTM and California tests.
3. The laboratory report shall clearly show the proportions of aggregate, filler (minimum and maximum), water (minimum and maximum), residual percent asphalt based on dry weight of the aggregate, emulsion percent based on dry weight of the aggregate, designation, rate and method of mixing with the emulsion, additives required for an optimum slurry seal mix, and weight per gallon of REAS.
4. The Engineer will determine if the mix design is best suited to its needs, based upon the test results, including the content of emulsion and water needed to produce slurry with a maximum loss of 75 grams per square foot by WTAT. The standard WTAT template may be modified to a thickness of 3.18mm (0.125 in.), when using fine aggregate.
5. Once the proportions of materials to be used are approved by the Engineer, no substitution of other material will be permitted unless the materials proposed for substitution are first tested by the same approved laboratory that performed the mix design testing, and a laboratory report is submitted for the substituted design as specified above. Substituted materials shall not be used until the mix design for that material is approved by the Engineer.
6. Adjustments may be required during construction, based on field conditions. The Contractor shall obtain the Engineer's approval prior to any adjustments.

D. Mixing And Equipment:

1. For central mixing plant, combining of the RPME and aggregate in the mixing tank shall be in the presence of the Engineer. The tank shall be calibrated in gallons and equipped with load cells and a full sweep agitator capable of producing a homogeneous slurry mix. All storage tanks and delivery vehicles shall be equipped with an agitator. The REAS shall be delivered to the slurry site and spread directly behind the truck with a mechanical-type squeegee distributor, or the slurry may be pumped into smaller trucks equipped with mechanical-type squeegee distributors. All spreading equipment shall contain fog/water systems per 302-4.3.2. The mixing tank shall not be used to supply more than one job at a time.
2. The weight per gallon of REAS delivered to the spreader box shall be within 0.92 lbs/gal of the mix design.
3. A central mixing plant shall not be used for quick set REAS.
4. For continuous flow mixing, the mixing equipment shall be a multi-blade or spiral continuous-flow unit in good working condition. All units used on the project shall have a visual readout display and have the means to accurately meter the individual quantities of aggregate, water, emulsion, and additives being fed into the mixer. All feeding mechanisms must be continuous feed and proportioning must remain constant at all times.
5. Calibration for the introduction of emulsion into the mixer shall include pumping the emulsion to establish a volumetric consistency within 2.0 percent of the mathematical average of 3 runs of at least 300 gallons. Emulsion pumps shall be equipped with an electronic automatic shut-down device which activates and shuts down the belt feeder when the emulsion level is lowered.
6. Variable volume pumps shall be equipped with a lock and shall be locked following calibration.
7. Calibration for the introduction of aggregate into the mixer shall include the delivery of aggregate with the volumetric consistency that shall not exceed 2.0 percent of the mathematical average of 3 runs of at least 3 tons.
8. The belt delivering the aggregate to the pugmill shall be equipped with a device to monitor the depth of the aggregate being delivered to the pugmill. Said device for monitoring depth of aggregate shall automatically shut down the power to the aggregate belt feeder whenever the depth of aggregate is less than 70 percent of the target depth flow.
9. In the event that the metering devices stop working, the slurry units will stop the application of slurry until they are fixed.
10. The spreader box shall be equipped with flexible material in contact with the pavement and shall be maintained so as to prevent loss of slurry. It shall be adjustable to ensure a uniform controlled spread and be equipped with a mechanical or hydraulic type horizontal shifting device.
11. The mixture of slurry seal shall not bleed, ravel, separate, or show other signs of

distress following its placement.

12. ADD the Section 600-3.3.1, "Field Mixing and Spreading Equipment Calibration," the following: The Contractor shall allow 14 days prior to the start of work for calibration and for all required testing at a location to be designated by the Engineer. The Contractor, at its expense, shall arrange for field samples to be obtained at the time of calibration by the same approved laboratory that performed the mix design testing.

E. Application:

1. The Contractor shall provide a coordinator, at least one competent and experienced slow-set man, and one competent experienced driver for the truck applying the slurry. The Contractor shall also provide sufficient laborers for any hand work and clean-up required ensuring proper progress of work.
2. The streets or lots to be slurried shall be closed from the time the application begins until the Engineer determines the mixture has achieved sufficient set to be opened to traffic. If possible, slurry seal shall be applied to tree shaded areas in the early morning to allow proper curing.
3. At the discretion of the Engineer, the placement of slurry seal may be suspended due to unsuitable weather, air or pavement temperature, or other conditions that are considered unfavorable for the prosecution of the work. The Contractor shall immediately comply with the written order for suspension by the Engineer, and work shall not be resumed until approved by the Engineer in writing.
4. The days during which the suspension of work is in effect shall not be considered as working days as defined in Section 6-7.3, "Contract Time Accounting," and the date of completion shall be extended accordingly. In the event of a suspension of work, the Contractor shall provide for satisfactory passage of traffic through any incomplete portions of the project. No adjustment of unit prices of any items or other increase compensation shall be allowed due to a suspension of work as described above.
5. Prior to applying slurry, all vegetation previously sprayed with an herbicide shall be removed from cracks in the pavement and joints between the pavement and concrete gutters by the Contractor. Prior to applying slurry, all raised pavement markers shall be removed by the Contractor. The surface to be sealed shall be cleaned by the Contractor by washing, heating, scraping, or other means necessary to remove moisture, dirt, grease, or other foreign matter which would reduce the bond between the slurry and the pavement. Immediately ahead of the slurry truck, the pavement shall be pre-wetted by a pressure water distribution system equipped with a fog type spray bar which will completely dampen the surface of the pavement. The rate of application will be determined by the Engineer based upon pavement conditions at the time of application.
6. Slurry shall be applied utilizing such equipment and methods such that no longitudinal or transverse ridges are noticeable either visually or in vehicle ride quality. All loose aggregate shall be removed by sweeping within 24 hours after application.
7. The Contractor shall fix, replace, or reseal all pavement areas which have not been

properly or completely sealed, which have been damaged by traffic due to premature opening or softening from warm weather, or which develop bleeding, raveling, separation or other distress. All remedial maintenance shall be completed within 14 days after notification by the Engineer and shall be completed at no cost to the County.

8. During slurry seal operations it shall be the Contractor's responsibility to thoroughly and adequately protect all manhole covers, water valve covers and utility vault covers, all survey "monumentation", and all drainage facilities. The Contractor shall employ all means necessary to protect and clean these existing facilities to their original condition or shall bear the cost to replace them where necessary.
9. Any manhole cover, water valve cover, utility vault cover or drainage facility cover found to be inadequately protected and cleaned shall be cleaned by means such as sandblasting to remove all slurry material (including material remaining from previous applications) from the metal surface or it shall be replaced by the Contractor at its expense.
10. A sand blotter shall be spread at selected driveways, intersections, or other areas designated by the Engineer to accommodate pedestrian or vehicular traffic until the slurry sets. Sand blotters used at intersections shall be swept within 14 hours of placement or sooner if directed by the Engineer. **Failure to remove sand blotters within 14 hours will result in removal by County forces and the costs of the removal charged to the Contractor**
11. The start and finish of a slurry application shall be a straight line which, unless otherwise approved by the Engineer, shall be obtained by laying a strip of building paper or other material, approved by the Engineer, on the pavement surface. After application of slurry, the paper shall be removed, leaving a straight edge.
12. Spillage resulting from hauling operations along or across any publicly travel way shall be removed immediately by the Contractor at its expense.
13. RPME Application Rates

Aggregate Type	Application Rate Square Feet /Gallon of RPME
Fine Slurry Aggregate	35 – 40
Type I Slurry Aggregate	28 – 35
Type II Slurry Aggregate	24 – 30

F. Field Sampling:

1. Quality assurance testing and sampling of the slurry seal mixture will be performed by the County of Orange OC Public Works Materials Laboratory, which shall include all the components necessary and required in the laboratory approved mix design.
2. The testing and sampling shall be performed by the County of Orange OC Public Works Materials Laboratory. The Engineer may, at any time during the project, suspend work in order to verify or interpret test results.
3. During the performance of the work, the Contractor shall arrange for taking at

least 2 field samples of the mixed slurry per slurry truck, per day, for the purpose of wet track abrasion tests.

4. The slurry seal mixture sample shall be taken from the slurry truck by a qualified technician from the approved material testing laboratory.
5. Test results for the slurry seal mixture used during the course of the job will be based on random samples taken from the slurry seal truck at the time the material is being placed. These test results shall comply to the requirements of the wet track abrasion test, ASTM D3910, this Scope of Work, and the following values:

Test	Test Method	Requirement	
		Minimum	Maximum
Wet Track Abrasion (weight loss in grams per square foot)	ASTM D3910	0	75
Consistency (CMS)	ASTM D3910	20	30
Extraction Test (emulsion content, percentage)	ASTM D2172	± 1.0 Percent of mix design	
Water Content (percentage of dry aggregate weight)	ASTM D2172	---	25

Note: It is brought to the Contractor's attention that the results from the field sampling and testing will be compared to the results of the design testing performed prior to the starting of the job.

6. The slurry mixture sampled shall be of aggregate, asphalt emulsion, water, and additives, and shall be mixed in the slurry truck mixer and spreader or pre-mixed from the plant. It shall reflect the same slurry produced in the approved mix design and shall be prepared to a homogeneous flowing consistency and shall meet the requirements of the consistency test.
7. The slurry seal mixture sample taken from the slurry truck shall be formed into a disk by pouring it in the circular opening of a poly (methyl) methacrylate (PMMA) template resting on a larger circlet of roofing felt.
8. The method for testing shall follow ASTM D3910, as follows: After removal of the template, the disk-shaped specimen is dried to constant weight at 140°F. The cured slurry is placed in a water bath for one hour, then mechanically abraded under water with a rubber hose for 5 minutes. The abraded specimen is washed free of debris, dried at 140°F and weighed. The loss in weight expressed as grams per square foot is reported as the wear value (WTAT loss).
9. For continuous flow mixing, the Contractor shall arrange and schedule an aggregate moisture test taken for each day of the slurry operation. Results of the test shall be submitted to the Engineer for review.
10. For continuous flow mixing, the Contractor shall perform an aggregate gradation test (ASTM 136) for every 250 tons of aggregate used during the job.

11. For continuous flow mixing, the Contractor shall perform at least one sieve analysis test (ASTMD244) for each load of emulsion delivered to the job site. An additional sieve analysis test shall be performed on the first day for each work week that the job is in progress.

G. Measurement and Payment:

Payment for Slurry Seal-Type I will be made at the contract unit price per "Gallon" which shall include full compensation for furnishing the complete Rubberized Emulsion Aggregate Slurry (REAS) Type I material (including aggregate), all labor, materials, tools, equipment and incidentals required for all necessary property owner notification, posting of "No Parking" signs, traffic control, vegetation removal and street cleaning, mix design material testing and providing of mix design, mixing and placing REAS, sanding and sweeping for traffic access, removing excess slurry, fixing damaged or improperly cured slurry, securing and cleaning stockpile areas, and clean-up in accordance with this Scope of Work and no additional compensation will be allowed therefore.

XLVII. TRAFFIC LOOPS

- A. Traffic loop detector sensor units shall be furnished by the Contractor.
- B. The third paragraph in Section 86-5.01A(4), "Construction Materials," of the CALTRANS Standard Specifications is amended to read:
- C. Loop detector lead-in cable, from the pull box adjacent to the loop to the field terminals in the cabinet, shall conform to the DC resistance (ohms per 1,000 feet) specifications of ASTM Designation: B 286, or shall conform to the calculated cross sectional area in circular mils of ASTM Designation: B 286, Table 1. The lead-in cable shall conform to the following:
- D. Type A lead-in cable shall consist of 2 No. 12 solid copper conductors with each conductor insulated with 30 mils minimum, at any point, high molecular weight, heat-stabilized, colored polyethylene, conforming to the requirements of ASTM Designation: D1248, Type I, Class B, Grade 4. The conductors shall be twisted together with not less than 2 turns per foot; Non-Hygroscopic fillers shall be used to form a firm compact cylindrical core. A non-hygroscopic core tape shall be applied spirally over the core. The cable shall be provided with an outer jacket consisting of extruded, black polyvinyl chloride conforming to ASTM Designation: D1047. The cable shall conform to the International Municipal Signal Association's Specifications: 19.1.
- E. In lieu of the requirements in the fourth paragraph of Section 86-5.01A(5), "Installation Details," of the CALTRANS Standard Specifications, slots in asphalt concrete pavement shall be filled as follows:
- F. After conductors are installed in the slots cut in the pavement, paint binder shall be applied to all vertical surfaces of slots in accordance with the provisions in Section 94, "Asphaltic Emulsions," of the CALTRANS Standard Specifications. The slots shall then be filled with asphaltic concrete sealant.
- G. Temperature of sealant material during installation shall be above 70 degrees Fahrenheit. Air temperature during installation shall be above 50 degrees Fahrenheit. Sealant placed in the slots shall be compacted by use of an 8-inch diameter by 1/8 inch thick steel hand

roller or other tool approved by the Engineer. Compacted sealant shall be flushed with the pavement surface. Minimum conductor coverage shall be 5/8 inch. Excess sealant remaining after rolling shall not be re-used. Traffic may be released immediately over impacted materials.

- H. **Full compensation for conforming to requirements of “Traffic Loop” will be considered as included in the Contract unit price bid per “Each” and no additional compensation will be allowed therefore.**

XLVIII. IMPORTED BORROW

- A. Imported Borrow will conform to Section 300-5 of Standard Specifications and this Scope of Work. Material will be free of organic material and other deleterious substances.
- B. Material shall meet following grading limits when tested in accordance with California TM #202.

Sieve Size	% Passing
1”	100
¾”	85-100
# 4	50-100
# 30	15-35
# 200	5-20

- C. Material will have a sand equivalent of not less than 15 and not greater than 35 when tested in accordance with California TM #217.
- D. **Full compensation for conforming to requirements of “Imported Borrow” including:**
 1. **Clearing and stripping material sites, if necessary;**
 2. **Excavating, loading, hauling, depositing, spreading and compacting material, complete in place; and no adjustment for shrinkage, subsidence, or any other allowance will be made therefore; and,**
 3. **Furnishing all labor, materials, tools, equipment and incidentals required to perform work will be considered as included in Contract unit price per “Cubic Yard” in accordance with this Scope of Work and no additional compensation will be allowed therefore.**

XLIX. ADJUSTMENT OF MANHOLE FRAME AND COVER

- A. There are occasions when utility manhole covers require adjustment in areas of current asphalt concrete operations or due to settlement.
- B. Inspector will designate and mark each manhole to be adjusted when preparing work request.
- C. Sewer and storm drain manhole frames within the area to be paved or graded will be set to finish grade by Contractor. Manholes in asphalt concrete pavement will be set to finish grade in accordance with provisions of Subsection 302-5.8. In the case of Portland

cement concrete pavement, manhole covers will be set to finish grade before paving. Repaving required as a result of reconstructing or adjusting all manhole and vault frames and covers to grade will be the responsibility of the Contractor and the cost thereof will be included in the bid item for pavement.

- D. Contractor will remove all debris from the interior of manholes and will clean all foreign material from the top of the frames and covers.
- E. Payment for preparing a sub-grade will be considered as included in the item of work for which the sub-grade is prepared.
- F. Adjusting manhole frames and covers to grade, where the difference between the lowest point of manhole removal and final elevation of the top of the frame is less than 375 mm (15 inches) or where the adjustment is accomplished by adjustment rings only, will be included in the unit price for adjusting each manhole frame.
- G. **Full compensation for conforming to requirements of “Adjustment Of Manhole Frame and Cover” including:**
 - 1. **Removal existing manhole cover and frame up to 15”;**
 - 2. **Removal of debris from work area;**
 - 3. **Compaction of sub-grade;**
 - 4. **Adjustment of manhole cover; and,**
 - 5. **Furnishing all labor and materials including asphalt concrete, tools, equipment and incidentals necessary to perform the work will be considered as included in Contract unit price per “Each” in accordance with this Scope of Work and no additional compensation will be allowed therefore.**

L. CREW RENTAL (CREW AND EQUIPMENT)

- A. County may request the Contractor to perform asphalt maintenance operations outside the scope of previous work items. The contractor will be given a specific location and job description by Inspector and meet prior to any work being performed. The contractor shall furnish a crew with the equipment necessary to perform the requested work.
- B. **Full compensation for conforming to requirements of ”Crew Rental (Crew And Equipment)” including:**
 - 1. **Supplying a crew with all the necessary equipment;**
 - 2. **Cleanup, removal and disposal of debris; and,**
 - 3. **Furnishing all labor, materials, tools, equipment, and incidentals necessary to perform work will be considered as included in Contract unit price bid per “Hour” in accordance with this Scope of Work and no additional compensation will be allowed therefore.**

LI. MISCELLANEOUS MATERIALS

- A. There may be occasions when County may request Contractor to supply materials to complete a project such as traffic loops, special subgrade material, utility covers, or manholes covers and rings.
- B. If this option is used, **Contractor will be required is to provide with invoice to County, a copy of supplier's invoice for any part costing \$100.00 or more.** Materials and supplies will be itemized separately on invoice.
- C. Cost of materials reported will be at invoice or lowest current price at which such materials are locally available and delivered to the job site in the quantities involved, plus sales tax.
- D. County reserves the right to approve materials and sources of supply, or to supply materials to the Contractor if necessary for the progress of the work. No markup will be applied to any materials provided by County.

**ATTACHMENT B
PAYMENT/COMPENSATION**

- I. COMPENSATION:** This is a usage Contract between County and Contractor for Asphalt Concrete Pavement Maintenance Services on an as needed basis, as set forth in Attachment A “Scope of Work”.

The Contractor agrees to accept the specified compensation as set forth in this Contract as full payment for performing all services and furnishing all staffing and materials required, for any reasonably unforeseen difficulties which may arise or be encountered in the execution of the services until acceptance, for risks connected with the services, and for performance by the Contractor of all its duties and obligations hereunder. The Contractor shall only be compensated as set forth herein for work performed in accordance with the Scope of Work. **The County shall have no obligation to pay any sum in excess of the Fixed Prices and Total Contract Amount specified herein unless authorized by amendment in accordance with Articles C and P of the County Contract Terms and Conditions, which may require approval by the County Board of Supervisors.**

- II. FEES AND CHARGES:** County will pay the following prices in accordance with the provisions of this Contract.

- A. Schedule of Work Items: Prices shown are lump sum:

Item No.	Estimated Quantity	Unit of Measure	Item Description	Item Price	Total
1	2	EA	Emergency/On-Call Work	\$4,000.00	\$8,000.00
2	2,500	SF	Hand Patch AC	\$2.50	\$6,250.00
3	1,500	SF	Remove & Replace AC 4" < 100 SF	\$16.00	\$24,000.00
4	2,500	SF	Remove & Replace AC 4" > 100 SF	\$7.00	\$17,500.00
5	5,000	SF	Remove & Replace AC 6" < 100 SF	\$18.00	\$90,000.00
6	2,500	SF	Remove & Replace AC 6" > 100 SF	\$10.00	\$25,000.00
7	4,000	SF	Remove & Replace AC 8" < 100 SF	\$20.00	\$80,000.00
8	6,000	SF	Remove & Replace AC 8" > 100 SF	\$9.00	\$54,000.00
9	500	SF	Remove & Replace AC 10" < 100 SF	\$24.00	\$12,000.00
10	1,000	SF	Remove & Replace AC 10" > 100 SF	\$10.00	\$10,000.00

Item No.	Estimated Quantity	Unit of Measure	Item Description	Item Price	Total
11	500	SF	Remove & Replace AC 12" < 100 SF	\$26.00	\$13,000.00
12	1,000	SF	Remove & Replace AC 12" > 100 SF	\$12.00	\$12,000.00
13	500	SF	Remove & Replace AC 14" < 100 SF	\$28.00	\$14,000.00
14	1,000	SF	Remove & Replace AC 14" > 100 SF	\$16.00	\$16,000.00
15	500	SF	Remove & Replace AC 16" < 100 SF	\$30.00	\$15,000.00
16	1,000	SF	Remove & Replace AC 16" > 100 SF	\$18.00	\$18,000.00
17	500	SF	Remove & Replace AC 18" < 100 SF	\$30.00	\$15,000.00
18	500	SF	Remove & Replace AC 18" > 100 SF	\$20.00	\$10,000.00
19	500	SF	Remove & Replace AC 20" < 100 SF	\$31.00	\$15,500.00
20	500	SF	Remove & Replace AC 20" > 100 SF	\$24.00	\$12,000.00
21	500	SF	Remove & Replace AC 22" < 100 SF	\$32.00	\$16,000.00
22	500	SF	Remove & Replace AC 22" > 100 SF	\$29.00	\$14,500.00
23	500	SF	Remove & Replace AC 24" < 100 SF	\$37.00	\$18,500.00
24	1000	SF	Remove & Replace AC 24" > 100 SF	\$30.00	\$30,000.00
25	500	SF	Remove & Replace AC 26" < 100 SF	\$38.00	\$19,000.00
26	750	SF	Remove & Replace AC 26" > 100 SF	\$32.00	\$24,000.00
27	2,500	SF	Remove & Replace AC 28" < 100 SF	\$44.00	\$110,000.00
28	500	SF	Remove & Replace AC 28" > 100 SF	\$34.00	\$17,000.00

Item No.	Estimated Quantity	Unit of Measure	Item Description	Item Price	Total
29	500	SF	Remove & Replace AC 30" < 100 SF	\$33.00	\$16,500.00
30	500	SF	Remove & Replace AC 30" > 100 SF	\$32.00	\$16,000.00
31	2,500	SF	Replace AC 3" 100 SF	\$4.00	\$10,000.00
32	5,000	SF	Replace AC 4" < 100 SF	\$7.00	\$35,000.00
33	15,000	SF	Replace AC 4" > 100 SF	\$4.50	\$67,500.00
34	500	SF	Replace AC 6" < 100 SF	\$9.00	\$4,500.00
35	500	SF	Replace AC 6" > 100 SF	\$4.20	\$2,100.00
36	500	SF	Replace AC 8" < 100 SF	\$11.00	\$5,500.00
37	500	SF	Replace AC 8" > 100 SF	\$5.30	\$2,650.00
38	500	SF	Replace AC 10" < 100 SF	\$12.00	\$6,000.00
39	500	SF	Replace AC 10" > 100 SF	\$8.00	\$4,000.00
40	500	SF	Replace AC 12" < 100 SF	\$14.00	\$7,000.00
41	500	SF	Replace AC 12" > 100 SF	\$12.00	\$6,000.00
42	500	SF	Replace AC 14" < 100 SF	\$16.00	\$8,000.00
43	500	SF	Replace AC 14" > 100 SF	\$15.00	\$7,500.00
44	500	LF	Type D1 Asphalt Concrete Curb 6"	\$9.00	\$4,500.00
45	500	LF	Type D1 Asphalt Concrete Curb 8"	\$10.00	\$5,000.00
46	2,000	SF	Pave Road Ditches 3"	\$4.60	\$9,200.00

Item No.	Estimated Quantity	Unit of Measure	Item Description	Item Price	Total
47	2,500	SF	Remove & Replace Existing 3" Road Ditches	\$5.60	\$14,000.00
48	2,000	SF	Pave Road Shoulders 4"	\$6.10	\$12,200.00
49	2,500	SF	Remove & Replace Existing 4" Road Shoulders	\$7.60	\$19,000.00
50	10,000	SF	Fog Seal	\$0.25	\$2,500.00
51	1,500	LF	Crack Seal-Routed	\$1.60	\$2,400.00
52	12,000	LF	Crack Seal-Non-Routed	\$1.20	\$14,400.00
53	50	GAL	Application of "Percol" Sealant	\$225.00	\$11,250.00
54	100	TON	Untreated Base Material	\$39.00	\$3,900.00
55	2,500	SF	Cold Milling of AC Pavement 3" < 100 SF	\$5.00	\$12,500.00
56	10,000	SF	Cold Milling of AC Pavement 3" > 100 SF	\$3.50	\$35,000.00
57	1,500	SF	Pavement Reinforcement Fabric	\$3.45	\$5,175.00
58	250	SF	AC Ramp on Concrete Sidewalk	\$9.50	\$2,375.00
59	1000	SF	Pave AC Slot Within 3 Days-4"	\$8.50	\$8,500.00
60	1,000	SF	Pave AC Slot Within 3 Days-6"	\$9.75	\$9,750.00
61	500	SF	Speed Bump Installation	\$7.50	\$3,750.00
62	500	SF	Speed Bump Installation	\$7.50	\$3,750.00
63	1500	GAL	Slurry Seal-Type I	\$8.00	\$12,000.00

Item No.	Estimated Quantity	Unit of Measure	Item Description	Item Price	Total
64	8	EA	Traffic Loops	\$300.00	\$2,400.00
65	250	CY	Imported Borrow	\$45.00	\$11,250.00
66	5	EA	Adjust Manhole Frame & Cover	\$1,100.00	\$5,500.00
67	50	HR	Crew Rental (Crew & Equipment)	\$660.00	\$33,000.00

- B. Materials Contractor cost plus 15% mark up
1. Material costs will be paid to Contractor on the basis of Contractor’s actual invoice cost plus mark up.
 2. All material items shall be listed on the invoice
 3. Contractor must provide Materials invoice for items \$100 or more
- C. **Miscellaneous Item Discount Structure:** Miscellaneous Items may be purchased against the Contract. Miscellaneous Item purchases shall not exceed \$5,000 per invoice including tax. County will obtain price quotes from Contractor for all miscellaneous items purchased. Contractor shall provide the list price and discount price on all invoice(s) for all miscellaneous items.

Amendment No. 1: Renew Contract for 1 year

- D. **TOTAL ANNUAL AGGREGATE CONTRACT AMOUNT SHALL NOT EXCEED:\$695,000**
FIRST RENEWAL TERM, TOTAL ANNUAL CONTRACT AMOUNT SHALL NOT EXCEED: ..\$715,000

Amendment No. 1: Renew Contract for 1 year

- E. **TOTAL AGGREGATE CONTRACT AMOUNT FOR THREE YEARS SHALL NOT EXCEED: \$2,085,000**
FIRST RENEWAL TERM, TOTAL CONTRACT AMOUNT SHALL NOT EXCEED: \$715,000

- III. **PRICE INCREASES/DECREASES:** No price increases will be permitted during the first period of the Contract. All price decreases will automatically be extended to County. County requires bona fide proof of cost increases on Contracts prior to any price adjustment. A minimum of one hundred twenty (120) days advance notice in writing is required to secure such adjustment. No retroactive price adjustments will be considered. County may enforce, adjust, negotiate, or cancel escalating price Contracts or take any other action it deems appropriate, as it sees fit. The net dollar amount of profit will remain firm during the period of the Contract. Adjustments increasing Contractor’s profit will not be allowed.
- IV. **FIRM DISCOUNT AND PRICING STRUCTURE:** Contractor guarantees that prices quoted are equal to or less than prices quoted to any other local, State or Federal government entity for services of

equal or lesser scope. Contractor agrees that no price increases shall be passed along to County during the term of this Contract not otherwise specified and provided for within this Contract.

- V. PAYMENT TERMS:** Invoices are to be submitted in arrears, after services have been received. Payment will be net 30 days after receipt of an invoice in a format acceptable to the County of Orange. Invoices shall be verified and approved by County and subject to routine processing requirements. The responsibility for providing an acceptable invoice to County for payment rests with Contractor. Incomplete or incorrect invoices are not acceptable and will be returned to Contractor for correction.

Billing shall cover services not previously invoiced. Contractor shall reimburse the County of Orange for any monies paid to Contractor for services not provided, or when services do not meet the contract requirements.

Payments made by County shall not preclude the right of County from thereafter disputing any items involved or billed under this contract and shall not be construed as acceptance of any part of the services.

- VI. INVOICING INSTRUCTIONS:** Contractor will provide an invoice on Contractor's letterhead. Each invoice will have a unique number and will include the following information:

- A. Contractor's name and address
- B. Contractor's remittance address, if different from (A), above
- C. Name of County agency/department
- D. Delivery/service address
- E. Contract number
- F. Service Date
- G. Description of Services/Locations
- H. Number of Catch Basins Cleaned
- I. Total Amount
- J. Taxpayer ID number

Invoices and support documentation are to be forwarded to:

OC Public Works
Attn: Kris Ruiz
2301 N. Glassell
Orange, CA 92865