

SPECIAL PROVISIONS

1.0 GENERAL

1.1 Scope of Services

It shall be the contractor's responsibility to provide and furnish all materials, tools, labor and incidentals to complete the work as outlined in the Project Description and as shown in the Specifications and Contract Documents for **Thermal Town Street Improvement Project, Project No. MS4227**.

It shall be the Contractor's responsibility to thoroughly review the project area, familiarize itself with the scope of proposed work and submit the proposal for the work accordingly.

1.2 Project Descriptions

In general, the proposed work will include construction of curb, gutters, cross gutters, sidewalk, access ramps and driveways. The proposed work will also construct new asphalt concrete pavement over crushed aggregate base, asphalt concrete pavement overlay, adjustment of sewer and utility manholes, adjustment and relocation of vaults, valves, and meters, plus the relocation and modification of fire hydrants as well as mail boxes. The removal of existing curb and gutter is to be included along with providing new signing and striping and high pressure sodium street lights.

All project work and incidental items to complete the project shall be performed in accordance with the plans, specifications, and other provisions of the contract. All the above improvements are to be constructed in a workmanlike manner, leaving the entire project in a neat and presentable condition.

1.3 Project Plans

The area of work is shown on the attached plan sets for "**Thermal Town Street Improvement Project, Project No. MS4227**" The project consists of **4 individual plan sets**, titled:

1. **Street Improvement**
2. **Signing and Striping**
3. **Street Lighting (Location Only)**
4. **Street Lighting Construction Plan**

1.4 Time Allowed for Construction

In accordance with the provisions of Time of Completion, this project shall be completed within **60 working days**.

1.5 Record Drawings

The Contractor shall keep one clean, set of bond originals to note any changes which take place during construction. These changes to the original plans and/or specifications shall be

noted at the appropriate locations with the appropriate changes indicated in red pencil or ink. The Contractor shall note in large letters "RECORD DRAWINGS" on the Title Sheet of the plans. The job will not be finalized by the Engineer until these record drawings have been completed to the satisfaction of the Engineer. The changes shall be noted on the plans as the changes occur. The record drawings shall be submitted to the Engineer, and become the property of the County at conclusion of the project.

Full compensation for maintaining and compiling the record drawings shall be considered to be included in other items of work and no additional compensation will be allowed therefor.

1.6 Specifications

This project shall conform to the requirements of the May 2006 edition of the Standard Specifications and Standard Plans as issued by the State of California Department of Transportation.

Requirements on the construction plans for Portland Cement Concrete are modified to the PCC Class designations, as described in Section 90-1.01 of the 2006 Standard Specifications, as follows:

Class "A" shall mean Class "2"
Class "B" shall mean Class "3"
Class "C" shall mean Class "4"
Class "D" shall mean Class "1"

1.7 Disposal Of Excess Excavation Or Materials

Excess earth excavation, pavement grindings and other excess materials resulting from construction operations shall be disposed of by the Contractor outside of the street right of way, as provided in Section 7-1.13 of the Standard Specifications.

The second paragraph of Section 7-1.13 of the Standard Specifications is modified to read as follows:

When any material is to be disposed of outside the highway right of way, and the County of Riverside has not made arrangements for the disposal of such material, the Contractor shall first obtain written authorization from the property owner on whose property the disposal is to be made and he shall file with the Engineer said authorization or a certified copy thereof together with a written release from the property owner absolving the County of Riverside from any and all responsibility in connection with the disposal of material on said property. If the disposal of materials is to be made at established disposal facility that is available for public use, the Contractor shall retain all authorizations and receipts from said disposal facility and shall provide copies to the Engineer upon request.

1.8 Liquidated Damages

The Contractor shall diligently prosecute the work to completion before the expiration of prescribed working days from the date stated in the "Notice to Proceed". The Contractor shall pay to the County of Riverside the sum of \$800.00 per day, for each and every calendar days delay in finishing the work in excess of the number of working days prescribed above.

In addition to the liquidated damages set forth above, the first lift of asphalt concrete paving shall be placed within seven (7) calendar days of the removal of existing asphalt concrete for each street segment. A street segment is hereby defined as that area of road removed in one (1) day. Contractor shall pay to the County of Riverside the sum of \$800.00 per day, for each and every calendar day's delay in completing paving within' the number of calendar day prescribed above, for each street segment subjected to delay, and shall apply separately to each street segment within the scope of work.

1.9 Insurance

In addition to the requirements of Section 3-1.025(B), "Insurance — Hold Harmless" of the Contract Documents, the Contractor's Certificate of Insurance and endorsements for the project shall name the following listed entities as additional insured under the Contractor's general liability, excess liability, and auto liability insurance policies, and each listed entity shall be named on the Waiver of Subrogation for the Contractor's Workers Compensation policy.

1. "Economic Development Agency, its officers, directors, agents and employees".
2. "Coachella Valley Water District, its officers, directors, agents and employees".
3. "Imperial Irrigation District, its officers, directors, agents and employees".
4. "Redevelopment Agency for the County of Riverside, its officers, directors, agents and employees".

Each of the above listed entities shall also be held harmless, in accordance with the requirements of subsection IV, "Hold Harmless" of Section 3-1.025(B), "Insurance — Hold Harmless" of the contract documents.

Full compensation for compliance with the requirements of this Section shall be considered as included in the various items of work, and no additional compensation will be allowed therefor.

2.0 TECHNICAL SPECIFICATIONS

2.1 Mobilization

The contractor mobilization shall conform to the provisions in Section 11 of the State Standard Specifications and these Special Provisions.

Mobilization shall consist of preparatory work and operations, including but not limited to, those necessary for the movement of personnel, equipment, supplies, and incidentals to the project site; for the establishment of all offices, buildings, construction yards, sanitary facilities, and any other facilities necessary for work on the project; and for all other work and operations which must be performed or costs incurred prior to beginning work on the various contract items on the project site, as well as the related demobilization costs anticipated at the completion of the project. The cost of all bonds and insurance policies, including premiums and incidentals, shall be included in mobilization.

No additional compensation will be allowed for Additional Mobilizations required, including but not limited to, delays caused by the relocation of existing utility facilities shown on the plans or discovered during construction operations.

The deletion of work or the addition of extra work as provided for herein shall not affect the price paid for Mobilization.

2.2 Water Pollution Control

Throughout the term of this contract, the total soil-disturbed area of the project site is more than 1 acre.

National Pollutant Discharge Elimination System - NPDES:

The Contractor shall comply with the requirements of Board Order No. 01-077 (NPDES No. CAS617002). NPDES Area-Wide Municipal Storm Water Permit, hereafter referred to in this section as the "Permit", issued by the California Regional Water Quality Control Board (CRWQCB) - Colorado River Basin Region. This permit regulates both stormwater and non-stormwater discharges associated with Contractor's construction activities. The Contractor shall prepare and implement a Storm Water Pollution Prevention Plan (SWPPP) in accordance with this section entitled "Stormwater and Non-Stormwater pollution Control" of these Special Provisions.

A copy of the Permit may be obtained at the office of the County of Riverside Transportation Department, 14th Street Annex, 3525 14th Street, Riverside, California. (951) 955—6780, or may be obtained on the internet at: <http://www.swrcb.ca.gov/rwgcb8/pdf/02-11.pdf>.

The Contractor's attention is directed to:

1. Allow the Engineer to withhold progress payments if the Contractor fails to fully implement "Stormwater and Non-Stormwater Pollution Control" or is deemed to be in noncompliance with provisions of the permit;
2. "Stormwater Pollution Prevention Plan Preparation and approval" which requires that a SWPPP be prepared and approved prior to the pre-construction meeting;

"SWPPP Implementation" which allows the Engineer to suspend construction operations if the Contractor fails to implement the approved SWPPP and any amendments thereto.

Stormwater and Non-Stormwater Pollution Control:

The term "Stormwater and Non-Stormwater Pollution Control" shall include preparing, obtaining approval of, amending and implementing the Storm Water Pollution Prevention Plan (SWPPP) as required by the State Water Resources Control Board (SWRCB) and the California Regional Water Quality Control Board (CRWQCB)— Colorado River Basin Region.

The SWPPP shall identify site specific Best Management Practices (BMPs) to be implemented during and after construction to minimize the potential pollution of stormwater

runoff and receiving waters. The identified BMPs shall be practices designed to minimize or eliminate the discharge of pollutions from the construction site and the Contractor's construction activities, including, but not limited to:

1. Good housekeeping practices for solid and sanitary/septic waste management, vehicle and equipment cleaning/maintenance, and material handling and storage.
2. Construction procedures such as stabilized construction access points, schedule/phasing to minimize areas of soil disturbance, soil stabilization, and erosion/sediment control.

The SWPPP shall also stipulate an ongoing program for monitoring and maintenance of all BMPs.

General Requirements

All activities performed by the Contractor for this project shall conform to the requirements in the latest version of the statewide National Pollutant Discharge Elimination System (NPDES) General Permit (Permit No. CAS000002) for Stormwater Discharges Associated with Construction Activity and Modifications (Resolution No- 2001046) to Water Quality Order 99-08-DWQ SWRCB NPDES General Permit for Stormwater Discharges Associated with Construction Activity, hereafter referred to collectively as the "General Permit", issued by the SWRCB. This General Permit regulates both stormwater and non-stormwater discharges associated with Contractor's construction activities.

A copy of the Permit and Resolution may be obtained at the office of the County of Riverside Transportation Department, 14th Street Annex, 3525 14th Street, Riverside, California. (951) 955-6780, or may be obtained on the internet at

<http://www.swrcb.ca.gov/resdec/wgorders/1999/wgo99-08.html>

and

wwwswrcb.ca.gov/resdec/resltn/2001/rs2001-046.doc.

In the event the County incurs any Administrative Civil Liability (fine) imposed by the CRWQCB-Colorado River Basin Region, as a result of Contractor's failure to fully implement the provisions of "Stormwater and Non-Stormwater Pollution Control", the Engineer, may, in the exercise of his sole judgment and discretion, withhold from payments otherwise due Contractor a sufficient amount to cover the Civil Liability. Liability may be in an amount up to \$27,500 per day per deemed occurrence.

"Stormwater and Non-Stormwater Pollution Control" work shall conform to the requirements in the latest version of Caltrans Storm Water Quality Handbooks entitled "Construction Site Best Management Practices (BMPs) Manual" and "Storm Water Pollution Prevention Plan (SWPPP) and Water Pollution Control Program (WPCP) Preparation Manual". Copies of the "Construction Site BMPs manual" and "SWPPP and WPCP Preparation Manual", hereafter referred to collectively as the "Caltrans Handbooks", may be obtained from the California Department of Transportation Publication Distribution Unit, 1900 Royal Oaks Drive, Sacramento, California, 95815-3800. Telephone: (916) 445-3520. Copies of the Caltrans Handbooks can also be downloaded from the Caltrans internet site at

<http://www.dot.ca.gov/hq/construc/stormwater.html>.

The Contractor shall be responsible for all costs and for any liability imposed by law as a result of the Contractor's failure to comply with the requirements set forth in "Stormwater and Non-Stormwater Pollution Control", including but not limited to, compliance with the applicable provisions of the Caltrans Handbooks, General Permit, Federal, State, and local regulations. For the purpose of this paragraph, costs and liabilities include, but not limited to, fines, penalties and damages whether assessed against the District or the Contractor, including those levied under the Federal Clean Water Act and the State Porter-Cologne Water Quality Act.

The Contractor shall become fully informed of and comply with the applicable provisions of the Caltrans Handbooks, General Permit, Federal, State and local regulations that govern the Contractor's activities and operation pertaining to both stormwater and non-stormwater discharges from both the project site and areas of disturbance outside the project limits during construction. The Contractor shall, at all times, keep copies of the General Permit, approved SWPPP and all amendments at the project site. The SWPPP shall be made available upon request of a representative of the SWRCB, CRWQCB, United States Environmental Protection Agency (USEPA) or local stormwater management agency. Requests by the public shall be directed to the Engineer.

The Contractor is solely and exclusively responsible for any arrangements made between the Contractor and other property owners or entities that results in disturbance of areas or construction activities being conducted outside limits of the designated rights-of-way and temporary construction easements as shown on the project drawings.

The Contractor shall, at reasonable times, allow authorized agents of the CRWQCB, SWRCB, USEPA or local stormwater management agency, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the construction site and the Contractor's facilities pertinent to the work;
2. Have access to and copy any records required to be kept as specified in the General Permit;
3. Inspect the construction site, including any off-site staging areas or material storage areas, and related soil stabilization practices and sediment control BMPs; and
4. Sample or monitor for the purpose of ensuring compliance with the General Permit.

The Contractor shall notify the Engineer immediately upon request from regulatory agencies to enter, inspect, sample, monitor or otherwise access the project site or the Contractor's records.

SWPPP Preparation and Approval

The Contractor shall prepare and obtain approval of the SWPPP as part of the Stormwater and Non-Stormwater Pollution Control work for this contract. The SWPPP shall include an appropriate sampling and analysis plan (SAP) as required by Section B, "Monitoring Program and Reporting Requirements" of the General Permit. The SAP shall comply with the requirements in the Caltrans Sample Contractor's Water Quality SAPs that are available on the Caltrans Internet site at <http://www.dot.ca.gov/hq/construc/stormwater.html>.

An additional guidance document titled "Construction Storm Water Sampling and Analysis Guidance Document" is available from the California Stormwater Quality Association internet at <http://www.stonwaterforce.org/swgtf/products.htm>.

The Contractor shall prepare and implement the SWPPP in accordance with the Caltrans Handbooks and Sample Contractor's Water Quality SAPs, the General Permit and these Special Provisions.

In case of conflict between the Caltrans Handbooks and Sample Contractor's Water Quality SAPs and these Special Provisions, these Special Provisions shall govern; in case of conflict between these Special Provisions and the General Permit, the latter shall govern.

Within five (5) working days after the award of the contract, the Contractor shall submit two (2) copies of the SWPPP to the Engineer for review and approval. The Contractor shall allow ten (10) working days for the Engineer to review the SWPPP. If revisions are required as determined by the Engineer, the Contractor shall revise and resubmit the SWPPP within three (3) working days of receipt of the Engineer's comments and shall allow ten (10) working days for the Engineer to review the revisions. The Contractor shall submit four (4) copies of the approved SWPPP to the Engineer prior to pre-construction meeting. The Contractor must have an approved SWPPP prior to the pre-construction meeting.

The objectives of the SWPPP shall be to identify all pollution sources associated with Contractor's construction activities that may adversely affect the quality of stormwater discharges; to identify all non-stormwater discharges; to identify, construct, implement and maintain water pollution control best management practices, hereafter referred to as "BMPs", to reduce to the maximum extent practicable pollutants in both stormwater discharges and authorized non-stormwater discharges from the construction site during construction and to develop a maintenance schedule for BMPs after construction is completed under this contract.

The SWPPP shall incorporate BMPs in each of the following categories:

1. Soil stabilization practices;
2. Sediment control practices;
3. Sediment tracking control practices;
4. Wind erosion control practices; and
5. Non-Stormwater management, and - waste management and disposal control practices.

Specific objectives and minimum requirements for each category of BMPs are described in the Caltrans Handbooks. The Contractor shall consider the objectives and minimum requirements presented in the Caltrans Handbooks for each of the above categories. When minimum requirements are listed for any category, the Contractor shall incorporate one or more of the listed minimum BMPs required into the SWPPP and implement on the project to meet the pollution control objectives for the category. In addition, the Contractor shall consider other BMPs presented in the Caltrans Handbooks to supplement the minimum BMPs required when necessary to meet the objectives of the SWPPP and maintain compliance with the General Permit. The Contractor shall document the selection process in accordance with the procedure specified in the Caltrans Handbooks.

The Contractor shall not assume that the minimum BMPs required for each category presented in the Caltrans Handbooks are adequate to meet the pollution control objectives. The Contractor may use other effective BMPs, as approved by the Engineer, in addition to the minimum BMPs required in the Caltrans Handbooks to achieve the pollution control objectives.

The SWPPP shall include the following items as described in the Caltrans Handbooks, Sample Contractor's Water Quality SAPs and General Permit:

1. Title Page;
2. Certification and Approval;
3. Table of Contents;
4. Source Identification;
5. Stormwater and Non-Stormwater Pollution Control Drawings;
6. Erosion Control;
7. Stabilization;
8. Sediment Control;
9. Non—Stormwater Management;
10. Waste Management and Disposal;
11. Maintenance; Inspection and Repair Program;
12. Training;
13. List of Contractors and Subcontractors;
14. Sampling and Analysis Plan;
15. Post—Construction Stormwater Management;
16. Current Inventory of BMP related materials;
17. Mobilization Plan for BMP deployment;
18. A copy of the Notice Of Intent (NOI) form submitted by the District for this project;
19. A copy of the Waste Discharge Identification (WDID) number or proof of mailing of the NOI (provided by the District)
20. A copy of the General Permit;
21. A copy of other applicable Plans/Permits, if any;
22. Construction Site Inspection Checklist;
23. Pre/Post Storm Inspection Checklist;
24. Inspection Log;
25. A copy of the Amendments, if any;
26. Amendment Certification and Approval, if any;
27. Amendment Log;
28. Annual compliance Certification;
29. BMPs Consideration Checklist; and;
30. SWPPP Checklist.

Stormwater pollution Prevention Plan Amendments

The Contractor shall prepare amendments to the SWPPP, both graphically and in narrative form, whenever there is a change in Contractor's construction activities or operations which may result in the discharge of pollutants to surface waters, ground waters, municipal storm drain systems or when deemed necessary by the Engineer. The Contractor shall also amend the SWPPP if it is in violation of any condition of the General Permit, or has not effectively achieving the objective of reducing pollutants in stormwater discharges. Amendments shall show additional BMPs, revised Contractor's construction activities or

operations, including those in areas not shown in the initially approved SWPPP, which are required on the project to effectively control water pollution.

Amendments to the SWPPP shall be submitted for review and approval by the Engineer in the same manner specified for the initial approval of the SWPPP. The Contractor shall date and attach all approved amendments to the SWPPP. Upon approval of the amendment, the Contractor shall implement the additional BMPs, revised construction activities or operations.

Annual Compliance Certification

The Contractor shall certify annually that construction activities are in compliance with the requirements of the General Permit and the approved SWPPP. The certification must be completed by July 1st of each year.

Non-Compliance Reporting

If the project is in non-compliance at any time, the Contractor shall make a written report to the Engineer within two (2) calendar days of identification of non-compliance activities.

Stormwater Pollution Prevention Plan Implementation

Upon approval of the SWPPP, the Contractor shall be responsible throughout the duration of the project for placing, installing, constructing, inspecting and maintaining the BMPs as well as conducting the sampling and analysis plan as included in the SWPPP and any amendments thereto and for removing and disposing of temporary BMPs. Unless otherwise directed by the Engineer or specified in these Special Provisions, the Contractor's responsibility for SWPPP implementation shall continued throughout any temporary suspension of work ordered in accordance with Section 8-1.05, "Temporary Suspension of the Work", of the Standard Specifications. Requirements for installation, construction, inspection, maintenance, removal and disposal of BMPs are specified in the Caltrans Handbooks and these Special Provisions.

The Engineer may order the suspension of construction operations if the Contractor fails to comply with the requirements of "Stormwater and Non-Stormwater Pollution Control" as determined by the Engineer.

The Contractor will not be compensated for sampling and analysis work because of the Contractor's failure to properly implement, inspect, maintain, and repair BMPs in the approved SWPPP and any amendments thereto, or for failing to store construction materials or wastes in watertight conditions.

- a. Stormwater Pollution Control -The Contractor shall implement soil stabilization practices and sediment control BMPs, including minimum requirements as presented in the Caltrans Handbooks, on all disturbed areas of the project site throughout the winter season, defined as between October 1st and May 31st.

Implementation of soil stabilization practices and sediment control BMPs for soil-disturbed areas, including but not limited to, rough graded access roads, slopes,

channel inverts, operational inlets and outlets of the project site shall be completed no later than ten (10) calendar day prior to the-start of the winter season or upon start of applicable Contractor's construction activities for projects which begin either during or within ten (10) calendar days of the winter season.

The Engineer may require the Contractor, on a case-by-case basis, to reduce the active soil-disturbed area limit of the project. The Contractor shall demonstrate the ability and preparedness to fully deploy soil stabilization practices and sediment control BMPs to protect soil-disturbed areas of the project site by maintaining an adequate quantity of soil stabilization and sediment control materials onsite to protect exposed, soil-disturbed areas and a detailed plan for the mobilization of sufficient labor and equipment to fully deploy the required BMPs prior to the onset of precipitation and for the duration of the project.

Throughout the winter season, active soil-disturbed areas of the project site shall be fully protected at the end of each day with soil stabilization practices and sediment control BMPs. The Contractor shall monitor the weather forecast on a daily basis. The National Weather Service forecast shall be used or an alternative weather forecast proposed by the Contractor may be used if approved by the Engineer. If precipitation is predicted prior to the end of the following workday, construction scheduling shall be modified, as required, and the Contractor shall deploy functioning control measures prior, to the onset of the precipitation.

Throughout the winter season, soil-disturbed areas of the project site shall be considered to be non-active whenever soil disturbing activities are expected to be discontinued for a period of fifteen (15) calendar days or more. Areas that will become non-active either during the winter season or within ten (10) calendar days thereof shall be fully protected with soil stabilization practices such as covering with mulch, temporary seeding, fiber rolls, blankets, etc. within ten (10) calendar days of the discontinuance of soil disturbing activities or prior to the onset of precipitation, whichever is first to occur. Areas that will become non-active either during the winter season or within ten (10) calendar days thereof shall be fully protected with sediment control BMPs within ten (10) calendar days of the discontinuance of soil disturbing activities or prior to the onset of precipitation, whichever is first to occur.

- b. Non-Stormwater Pollution Control - The Contractor shall implement, year-round and throughout the duration of the project, BMPs included in the SWPPP for sediment tracking, wind erosion, non-stormwater management, and waste management and disposal.
- c. Inspections and Reporting - The Contractor shall regularly inspect the construction site for BMPs identified in the SWPPP to ensure the proper implementation and functioning of BMPs. The Contractor shall identify corrective actions and time-frames to address any damaged BMPs or reinstate any BMPs that have been discontinued.

At a minimum, the Contractor shall inspect the construction site as follows:

1. Prior to a forecast storm;
2. After any precipitation which causes runoff capable of carrying sediment from the construction site;

3. At 24 hour intervals during extended precipitation events; and
4. At regular interval of once every 2 weeks.

The construction site inspection checklist provided in the Caltrans Handbooks shall be used to ensure that the necessary BMPs are being properly implemented and are functioning adequately. The Contractor shall submit one copy of each site inspection record to the Engineer.

- d. Maintenance - The Contractor shall maintain construction site BMPs identified in the SWPPP to ensure the proper implementation and functioning of BMPs. If the Contractor or the Engineer identifies a deficiency in the deployment or functioning of an identified BMP, the deficiency shall be corrected by the Contractor immediately, or by a later date and time if requested by the Contractor and approved by the Engineer in writing, but not later than the onset of subsequent precipitation events. The correction of deficiencies shall be at no additional cost to the District.
- e. Training - The Contractor shall describe the types of training that the Contractor's BMP inspection, maintenance, and repair personnel have received or will receive that is directly related to stormwater pollution prevention.
- f. National Pollutant Discharge Elimination System (NPDES) Permit (Required Urban Runoff Management Training) - The Contractor shall provide National Pollutant Discharge Elimination System (NPDES) Permit training for Urban Runoff Management to Contractor's employees and subcontractors if any. Failure to provide Urban Runoff Management training is a violation of Order No. R8-2002- 0011, NPDES No. CAS 618033 (Municipal Separate Storm Sewer System NPDES Permit), Section XI.I, for each day of which such failure, occurs and shall in addition, be, a breach of the contract with the County. Contractor understands and agrees that NPDES Permit violations are grounds for enforcement action by the Environmental Protection Agency, the State/Regional Water Resources Control Board and the County and may result in permit termination (stop work order), civil and criminal fines, and termination of contract. By submitting a bid, the Contractor certifies to the County that he has trained his employees and subcontractors, if any, for Urban Runoff Management and included sufficient sums in his base bid price to cover such costs of said training.

2.3 Traffic Control System

Contractor shall prepare construction staging and traffic control plans for review and approval by the Transportation Department.

Proposed plans shall be submitted by the Contractor for review and approval by the Transportation Department at least two weeks prior to the start of construction. The construction staging and traffic control plans shall be prepared, signed and stamped by a Civil Engineer or Traffic Engineer who is registered as such in the State of California, unless otherwise specifically allowed by the Engineer. The Contractor shall revise and implement the plans as directed by the Construction Engineer. Construction shall not begin until the Engineer provides Contractor with County approval of the plans.

Construction staging and traffic control plans shall be in accordance with the appropriate standards and specifications for construction staging, detour roads, traffic control, including

the State of California Highway Design Manual, the 2006 California Manual of Uniform Traffic Control Devices (MUTCD), the May 2006 Standard Plans and Standard Specifications, and the Work Area Traffic Control Handbook (WATCH), as published by Building News, Inc. Any requests for deviation from the established design standards or specifications are to be submitted to the Construction Engineer for review and approval prior to submission of the required plans.

With regard to the preparation and implementation of the plans, attention is especially directed to Sections 7-1.06, 7-1.08, 7-1.09, 7-1.11, 7-1.12 and Section 12 of the State of California Standard Specifications. Section 12-2.02 of the Standard Specifications is deleted.

Maintaining traffic shall conform to the provisions in 7-1.02 "Load Limitations", 7-1.06 "Safety and Health Provisions", 7-1.08 "Public Convenience", 7-1.09 "Public Safety", and 12-3.04 "Portable Delineators" of the Standard Specifications, the 2006 California Manual of Uniform Traffic Control Devices (MUTCD), the Section of these contract documents entitled "Insurance-Hold Harmless", and these Special Provisions.

All existing traffic control signs and street name signs shall be maintained in visible locations as directed by the Engineer.

No detours will be provided, unless specifically allowed herein. The Contractor will be required to conduct his operations in such a manner that traffic will be permitted to pass through the work area with as little delay as possible.

All warning lights, signs, flares, barricades and other facilities for the sole convenience and direction of public traffic shall be furnished and maintained by the Contractor. All traffic control devices, shall conform to and be placed in accordance with the 2006 California Manual of Uniform Traffic Control Devices (MUTCD), the corresponding California Supplement, and subsequent modifications as adopted by the State of California Department of Transportation.

All construction signs shall be either covered or removed when not required by the nature of the work or if no present hazard to the motorist exists.

The Contractor shall notify the appropriate regional notification center for operators of subsurface installations at least 2 working days, but not more than 14 calendar days, prior to commencing excavation for construction area sign posts. The regional notification centers include, but not limited to, the following:

Notification Center	Telephone Number
Underground Service Alert-Southern California (USA)	1-800-422-4133 1-800-227-2600 or 811

Excavations required to install construction area signs shall be performed by hand methods without the use of power equipment, except that power equipment may be used if it is determined there are no utility facilities in the area of the proposed post holes.

No payment for extra work will be allowed for work performed as specified in Section 12-2.02 (Flagging Costs) of the Standard Specifications. Flagging costs will be borne entirely by the Contractor.

Dust control shall conform to the provision of Section 10 of the Standard Specifications except that no extra work will be allowed when the Engineer orders the application of water for the purpose of controlling dust caused by public traffic as provided for in the last paragraph of Section 10.

The Contractor shall be responsible to distribute an information letter pertaining to the planned work to all affected residences and businesses, at least one week prior to commencing work adjacent to those residences and businesses. It shall be the responsibility of the Contractor to design the information letter, obtain design approval from the Engineer, print sufficient copies, and distribute the letter. The Transportation Department logo shall be included on the letter. A computer file of the logo may be obtained from the Engineer in .WPG, .DXF, .DGN or .DWG format. The letter shall be similar to the sample provided by the Engineer, and shall include a project description, the scope of work, the anticipated construction schedule, and other information as appropriate.

The Contractor shall post temporary no parking signs on affected streets 24 hours prior to work on those streets. The temporary no parking signs shall state the anticipated dates and hours of work on those streets.

2.4 Clearing And Grubbing

Clearing and grubbing (including the trimming of trees and bushes, removal of trees/shrubs unless otherwise specified elsewhere, dirt-driveway grading for tie-in, and the installation of 6-inches irrigation sleeves for future use) shall conform to the provisions in Section 16 of the Standard Specifications.

Attention is directed to the Federal Migratory Bird Treaty Act (15 USC 703 711) 50 CFR Part 21 and 50 CFR Part 10, and the California Department of Fish and Game Code Sections 3503, 3513 and 3800, that protect migratory birds, their occupied nests, and their eggs from disturbance or destruction.

Ground disturbance, tree, shrub and/or vegetation removal that occurs between February 1 and September 1 will not commence until a preconstruction survey for nesting birds has verified that no active nests have been located or the Engineer has approved the beginning of work. If an active nest is located, construction within 500 feet of the nest must be avoided until the nest has been vacated and the young are independent of their parents.

The Contractor shall use exclusion techniques directed by the Engineer to prevent migratory birds from nesting in trees within the project limits.

If evidence of bird nesting is discovered, the Contractor shall not disturb the nesting birds or nests until the birds have naturally left the nests. If evidence of migratory bird nesting is discovered after beginning work, the Contractor shall immediately stop work within 500 feet of the nests and notify the Engineer. Work shall not resume until the Engineer provides a

written notification that work may begin at or adjacent areas of the discovered bird nest locations.

Attention is directed to Section 8-1.05, "Temporary Suspension of Work" of the Standard Specifications.

For the purpose of making partial payments pursuant to Section 9-1.06, "Partial Payments" of the Standard Specifications, the amount set forth for the contract item of work hereinafter listed shall be deemed to be maximum total value of said contract item of work which will be recognized for progress payment purposes:

Clearing and Grubbing - \$ 10,000.00
Mobilization - \$ 15,000.00

After acceptance of the contract pursuant to Section 7-1.17, "Acceptance of contract" of the Standard Specifications, the amount, if any, payable for a contract item of work in excess of the maximum value for progress payment purposes herein above listed for said item, will be included for payment in the first estimate made after acceptance of the contract.

2.5 Roadway Excavation

Roadway excavation shall conform to the provisions of Section 19 of the Standard Specifications and these Special Provisions.

At road connections and at limits of asphalt paving, existing pavement shall be header cut as shown on the plans or as directed by the Engineer.

Existing pavement including any base material shall be cut back to neat lines and removed as shown on the plans or as directed by the Engineer. Excess material will become the property of the Contractor and will be disposed of as provided in Section 7-1.13 of the Standard Specifications.

Relative Compaction

Whenever relative compaction is specified to be determined by Test Method No. Calif. 216, the in-place density may be determined by Test Method No. Calif. 231. The in-place density required by Test Method No. Calif. 312 may be determined by Test Method No. 231. The wet weight or dry weight basis and English Units of Measurement may be used at the option of the Materials Engineer.

Roadway Excavation shall include furnishing all labor, tools and doing all the work necessary including grinding, cold plane, cold milling, sawcutting, compaction and the removal of asphalt concrete as shown on the plan and as directed by the Engineer.

Payment of Roadway Excavation shall be considered as included in the contract bid prices paid for the various items of work, and no additional compensation will be allowed therefor.

2.6 Finishing Roadway

Finishing roadway shall conform to Section 22 of the Standard Specifications and these specifications.

Shoulders: Roadways shoulders shall be trimmed and shaped to conform to the requirements of the approved typical section. This will include grading on optimum slope to the property lines if so directed. Included in this portion of the work shall be additional clearing, grubbing, or removal of debris not previously completed by the Contractor.

Concrete curbs-and-gutters, and cross-gutters shall be broomed clean and flushed with water to insure proper operation. Any underground drainage systems or storm drain facilities shall be thoroughly flushed out to insure proper operation.

Appurtenances: Street name signs, barricades and warning devices shall be completed and in place.

Monuments: Unless otherwise approved by the Director of Transportation, all survey monuments located within the improved street area shall be in place and pavement cuts neatly patched.

Final Cleanup: Prior to inspection and acceptance of the completed work, all items of finish work as outline above must be completed.

Back of Sidewalk Cut/Fill Slope: Grading of back of sidewalk cut and fill slope shall be completed as shown on plans and as directed by the Engineer.

Full compensation for Finishing Roadway shall be considered as included in and distributed proportionately through all the contract items of work and no additional compensation will be allowed therefor.

2.7 Asphalt Concrete

2.7.01 General:

Asphalt concrete shall be composed of mineral aggregate and asphalt binder, mixed in a suitable central mixing plant, and placed on the roadbed in accordance with these specifications and in conformity with the lines, grades and dimensions shown on the plans and typical cross-sections. When required by the Director of Transportation, the Subdivider shall provide an asphalt concrete mix design as appropriate for the designated location, prepared under the direction of an Engineer registered in the State of California competent to perform the work.

Asphalt concrete shall be placed on the prepared subgrade or base course in one or more courses to the required thicknesses, grades and cross-sections as shown on the plans and/or specified in the Agreement. All underground utilities shall be in place prior to paving.

In advance of spreading the asphalt concrete, a prime coat of liquid asphalt or asphaltic emulsion shall be applied to the areas to be surfaced if so indicated on the plans. Prime coat shall be applied to all roadbeds to receive surfacing, which have a gradient of ten percent or greater.

2.7.02 Asphalt Concrete:

Asphalt concrete shall be Type A for roads with a TI of 8.0 or greater and Type B for all others or as determined by a special mix design and shall conform to the provisions in Section 39 or the Standard Specifications. Unless otherwise directed, the gradation of the mineral aggregate shall be one-half inch (1/2-inch) maximum for final course and three-quarter inch (3/4-inch) maximum for base course. Aggregate gradation shall be medium or coarse depending on the TI specified.

Paving asphalt shall conform to the provisions in this Section, "Asphalt." The asphalt binder to be mixed with aggregate shall conform to the provisions in "Asphalt," of these special provisions and shall be of the Performance Grade (PG) designated below or as determined by the Engineer.

- A. Grade PG 64-10 (Inland Valleys)
- B. Grade PG 64-16 (South Mountain)
- C. Grade PG 70-10 (Desert)

The amount of asphalt binder to be mixed with the mineral aggregate shall be between three percent and seven percent by weight, of the dry mineral aggregate. The exact amount of asphalt binder to be mixed with the mineral aggregate will be determined by the Contractor and submitted to the Engineer for approval or as determined by a special mix design.

Liquid asphalt for prime coat shall conform to the provisions in Section 93, "Liquid Asphalts," of the Standard Specifications and shall be Grade PG 64-10 unless otherwise specified in the Special Provisions.

Asphalt emulsion for paint binder (tack coat) shall conform to the provisions in Section 94, "Asphaltic Emulsions," of the Standard Specifications for the rapid-setting or slow-setting type and shall be grade PG 64-10.

Paving asphalt for Asphalt Rubber Hot Mix (ARHM) shall be grade PG 64-16 for all regions.

Paving asphalt to be used as a binder for pavement reinforcing fabric shall conform to the provisions in "Asphalt," of these special provisions and the grade shall be Grade PG 64-10 unless otherwise specified in the Special Provisions.

2.7.03 Placing Asphalt Concrete:

Asphalt concrete will not be permitted to be placed upon unstable, yielding or working subgrade.

In addition to the provisions in Section 39-5.01, "Spreading Equipment," of the Standard Specifications, asphalt paving equipment shall be equipped with automatic screed controls and a sensing device or devices.

When placing asphalt concrete to the lines and grades established in the Plans and as directed by the Engineer, the automatic controls shall control the longitudinal grade and

straightedge requirements in Section 39 6.03, "Compacting," of the Standard Specifications:

- A. Pavement with a total thickness less than 0.24 ft (75 mm).
- B. Pavement on horizontal curves with a centerline curve radius of less than 1000 ft (300m) and the pavement within the superelevation transition on those curves.
- C. Pavement placed in a single lift when required by the special provisions.
- D. Pavement with extensive grade or cross slope correction which does not receive advance leveling operations in conformance with the provisions in Section 39-6.02, "Spreading," of the Standard Specifications.
- E. Pavement for ramps and connectors with steep grades and high rates of superelevation, as determined by the Engineer.
- F. Shoulders and miscellaneous areas.

The Contractor shall conform to California Test 526, except a zero (null) blanking band shall be used for determining the Profile Index. Prior to beginning profiles, the profilograph shall be calibrated in the presence of the Engineer. Two profiles shall be obtained within each traffic lane, 3 feet (one meter) from and parallel with the edges of the lane. Pavements profiled shall conform to the following Profile Index requirements:

- A. Pavement on tangent alignment and pavement on horizontal curves having a centerline curve radius of 2000 ft (600 m) or more shall have a Profile Index of 0.16 ft (48 mm) or less for each 330 ft (100 m) section profiled.
- B. Pavement on horizontal curves having a centerline curve radius of 1000 ft (300 m) or more but less than 2000 ft (600 m), including the pavement within the superelevation transition of these curves, shall have a Profile Index of 0.32 ft (96 mm) or less for each 330 ft (100 m) section profiled.
- C. Pavement within any 330 ft (100 m) section, containing high point areas with deviations in excess of 0.025 ft (7.5 mm) in a length of 25 ft (7.5 m) or less, when tested in conformance with the requirements in California Test 526, shall be corrected by the Contractor regardless of the Profile Index.

The Contractor shall complete initial runs of the profilograph prior to opening the pavement to public traffic. Profilograph operations shall be in conformance with the lane closure requirements in Section 7, "Public Safety" of these specifications. If initial profiles cannot be made prior to opening the pavement to public traffic, the initial runs of the profilograph shall be made the next day that traffic control is permitted for the area to be profiled.

Areas of the top surface of the uppermost layer of asphalt concrete pavement that do not meet the specified surface tolerances shall be brought within tolerance by abrasive grinding. Abrasive grinding shall be performed to reduce individual deviations in excess of 0.025 ft (7.5 mm), and to reduce the Profile Index of the pavement to be within the specified tolerance. Areas which have been subjected to abrasive grinding shall receive a seal coat. Deviations in excess of 0.025 ft (7.5 mm) which cannot be brought into specified tolerance by abrasive grinding shall be corrected by either (1) removal and replacement or (2) placing an overlay of asphalt concrete. The corrective method for each area shall be selected by the

Contractor and shall be approved by the Engineer prior to beginning the corrective work. Replacement or overlay pavement not meeting the specified tolerances shall be corrected by the methods specified above. Corrective work shall be at the Contractor's expense. The Contractor shall run profilograms on the areas that have received abrasive grinding or corrective work until the final profilograms indicate the Profile Index of the area is within the specified tolerance.

When abrasive grinding is used to bring the top surface of the uppermost layer of asphalt concrete surfacing within the specified surface tolerances, additional abrasive grinding shall be performed as necessary to extend the area ground in each lateral direction so that the lateral limits of grinding are at a constant offset from, and parallel with, the nearest lane line or pavement edge, and in each longitudinal direction so that the grinding begins and ends at lines normal to the pavement centerline, within a ground area. Ground areas shall be neat rectangular areas of uniform surface appearance and shall receive a seal coat prior to acceptance of the work.

The original of the final profilograms that indicate the pavement surface is within the Profile Index specified shall become the property of the County and shall be delivered to the Engineer prior to acceptance of the contract.

2.7.04 Seal Coat

A fog seal coat shall be required on all asphalt concrete surfaces. After fourteen days following placement of the asphalt surfacing the fog seal coat shall be applied at a rate of 0.05 gallon per square yard. Asphalt emulsion shall conform to Sections 37, 39, and 94 of the State Standard Specifications.

2.7.05 Asphalt

Asphalt shall consist of refined petroleum or a mixture of refined liquid asphalt and refined solid asphalt, prepared from crude petroleum. Asphalt shall be:

- A. Free from residues caused by the artificial distillation of coal, coal tar, or paraffin.
- B. Free from water.
- C. Homogeneous.

The Contractor shall furnish asphalt in conformance with the State of California Department of Transportation's "Certification Program for Suppliers of Asphalt." The Department maintains the program requirements, procedures, and a list of approved suppliers at: <http://www.dot.ca.gov/hq/esc/Translab/fpmcoc.htm>.

The Contractor shall ensure the safe transportation, storage, use, and disposal of asphalt.

The Contractor shall prevent the formation of carbonized particles caused by overheating asphalt during manufacturing or construction.

Performance grade paving asphalt shall conform to the testing requirements in the table below:

Performance Graded Asphalt Binder

Property	AASHTO Test Method	PG 64-10	PG 64-16	PG 70-10
Original Binder				
Flash Point, Minimum °C	T48	230	230	230
Solubility, Minimum % ^a	T44	99	99	99
Viscosity at 135°C, ^b Maximum, Pa·s	T316	3.0	3.0	3.0
Dynamic Shear, Test Temp. at 10 rad/s, °C Minimum G*/sin(delta), kPa	T315	64 1.00	64 1.00	70 1.00
RTFO Test ^d , Mass Loss, Maximum, %	T240	1.00	1.00	1.00
RTFO Test Aged Binder				
Dynamic Shear, Test Temp. at 10 rad/s, °C Minimum G*/sin(delta), kPa	T315	64 2.20	64 2.20	70 2.20
Ductility at 25°C Minimum, cm	T51	75	75	75
PAV ^e Aging, Temperature, °C	R28	100	100	110
RTFO Test and PAV Aged Binder				
Dynamic Shear, Test Temp. at 10 rad/s, °C Minimum G*/sin(delta), kPa	T315	31 ^c 5000	28 ^c 5000	34 ^c 5000
Creep Stiffness, Test Temperature, °C Maximum S-value, MPa Minimum M-value	T313	0 300 0.300	-6 300 0.300	0 300 0.300

Notes:

- The Engineer will waive this specification if the supplier is a Quality Supplier as defined by the Department's "Certification Program for Suppliers of Asphalt."
- The Engineer will waive this specification if the supplier certifies the asphalt binder can be adequately pumped and mixed at temperatures meeting applicable safety standards.
- Test the sample at 3°C higher if it fails at the specified test temperature. G*/sin(delta) shall remain 5000 kPa maximum.
- "RTFO Test" means the asphaltic residue obtained using the Rolling Thin Film Oven Test, AASHTO Test Method T240 or ASTM Designation: D 2827.
- "PAV" means Pressurized Aging Vessel.

The Contractor shall provide a sampling device in the asphalt feed line connecting the plant storage tanks to the asphalt weighing system or spray bar. The sampling device shall be accessible between 2.0 ft (600 mm) and 2.5 ft (750 mm) above the platform. The Contractor shall provide a receptacle for flushing the sampling device.

The sampling device shall include a valve:

- A. With a diameter between 10 mm and 20 mm.
- B. Manufactured in a manner that a one-liter sample may be taken slowly at any time during plant operations.
- C. Maintained in good condition.

The Contractor shall replace failed valves.

In the presence of the Engineer, the Contractor shall take 2 one-liter samples per operating day. The Contractor shall provide round friction top containers with one-liter capacity for storing samples.

Unless otherwise specified, the Contractor shall heat and apply asphalt in conformance with the provisions in Section 93, "Liquid Asphalts." Paving asphalt shall be applied at a temperature between 250°F (120°C) and 375°F (190°C). The Engineer will determine the exact temperature of paving asphalt.

2.8 Aggregate Base

Aggregate base shall be Class 2 and shall conform to the provisions in Section 26, "Aggregate Bases" of the Standard Specifications and these Special Provisions and shall meet the gradation requirements for 3/4 inch maximum.

The first paragraph of Section 26-1.02A, "Class 2 Aggregate Base" shall be modified to read:

Aggregate for Class 2 aggregate base shall be free from organic matter and other deleterious matter, and shall be of such nature that it can be compacted readily under watering and rolling to form a firm and stable base. Aggregate may consist of broken and crushed asphalt concrete or Portland cement concrete and may contain crushed aggregate base or other rock materials. The material may contain no more than 3 percent brick by weight as determined by California Test Method 202 as modified: Brick material retained on a No.4 sieve shall be identified visually and separated manually. Brick quantification shall be based on total weight of dry sample. Also, material retained on the 4.75 mm (No.4) sieve shall contain no more than 15 percent of particles (gravel) that have no more than one fractured face.

The Quality Requirements contained in Section 26-1.02A shall be modified to read:

QUALITY REQUIREMENTS

Test	Contract Compliance
Resistance (R-Value)	
Virgin Rock	78 Minimum
Crushed Miscellaneous	80 Minimum
Sand Equivalent	35 Minimum
Durability Index	35 Minimum
Percentage Wear	
100 Revolutions	15 Maximum
500 Revolutions	52 Maximum

Quantities of Aggregate Base will be paid for at the contract unit price per cubic yard and in accordance with the provisions of Sections 26-1.06 and 26-1.07 of the Standard Specifications.

2.9 Concrete Curb, Gutter, Cross-Gutter, Driveway Approach/Tie-In, Alley, Sidewalk, and Curb Ramps

Concrete curb, gutter, cross-gutter, driveway approach/tie-in, alley, sidewalk, and curb ramps shall be constructed in accordance with the County Road Improvement Standards and Specifications, or as directed by the Engineer and in conformance with Section 51, 73 and 90 of Standard Specifications, except as herein modified:

Class 2 concrete shall be used for concrete cross-gutter and Class 3 concrete for concrete curb, gutter, driveway approach/tie-in, alley, sidewalk and curb ramps.

The Contractor is hereby notified that the existing soils have a high sulfate/chloride solution content. In order to decrease the probability of these solutions penetrating the concrete, the concrete mix shall be Class 1 with Type V Portland cement with a maximum W/C ratio of 0.4. Additionally, an impermeable membrane (6-mil visqueen) shall be placed under all concrete improvements.

Preparation of subgrade for the concrete structures shall be done in conformance with the requirements of Section 73-1.02 of the Standard Specifications.

The placement of aggregate base material is required under all concrete in accordance with County Road Improvement Standards and Specifications.

Excess material resulting from the excavation of the subgrade shall be disposed of as elsewhere provided in these Special Specifications. Full compensation for the removal of existing concrete structures shall be included in the contract bid prices for such items.

The Contractor is responsible for meeting all requirements of the Americans with Disability Act (ADA).

Construction of sidewalk and curb ramps shall include, but not be limited to, the following:

- 1) Removal and disposal of existing sidewalk, curb, and/or curb and gutter and existing soil and aggregate as required;
- 2) Establishing grades, and assuring that all grades are met;
- 3) Performing all grading and compaction — including all required aggregate import, as directed by the Engineer and in accordance with County Standard 403;
- 4) Construction of new sidewalk, curb, and/or curb and gutter;
- 5) All scoring/grooving and required saw cutting;
- 6) Repair of existing asphalt and PCC surfacing;
- 7) Installing 1/2" wide expansion joints;

- 8) All landscaping, and related work, to return the area adjacent to the curb ramp to its original condition and to conform the area to the new improvements;

At a minimum, the area from the BCR to ECR shall meet all required ADA standards. Therefore, to conform to existing conditions and/or to achieve the required four-foot level area (maximum of 2.0% crossfall) at the top portion of the curb ramp, it may be necessary to extend the work beyond the BCR/ECR in certain instances.

Compensation for constructing driveway tie-ins shall be included in the price paid for the adjacent driveway approach and no additional compensation will be allowed therefore.

The area behind and along the sidewalk shall be filled and compacted with native or select material and graded to match and provide a smooth transition from the back of sidewalk, to the satisfaction of the Engineer.

Full compensation for driveway approaches shall include the installation and/or replacement of the curb, gutter and wings as necessary to complete the installation.

2.10 Thermoplastic Crosswalk And Pavement Marking

Thermoplastic crosswalk and pavement markings shall conform to the provisions in Sections 84-1, "General," and 84-2, "Thermoplastic - Traffic Stripes and Pavement Markings," of the Standard Specifications and these Special Provisions.

At the option of the Contractor, STAMARK Brand Pavement Tape, Pliant Polymer Grade, manufactured by the 3M Company; or Cata-Tile Elastoplastic Roadmarking Tile, manufactured by the Cataphote Division of the Ferro Corporation; or STANARK Brand Pavement Tape, Bisymmetric 1.75 Grade, manufactured by the 3M Company, may be placed instead of the thermoplastic crosswalk and pavement markings specified herein. Pavement tape and roadmarking tile, if used, shall be installed in accordance with the manufacturer's specifications. If pavement tape or road marking tile is placed instead of thermoplastic crosswalk and pavement markings, the pavement tape or roadmarking tile will be measured and paid for as thermoplastic crosswalk and pavement markings.

2.11 Paint Traffic Stripe

Painting traffic stripe shall conform to the provisions in Sections 84-1, "General" and 84-3, "Painted Traffic Stripes and Pavement Markings of the Standard Specification Special Provisions.

Traffic striping shall be applied in two coats with airless equipment and shall be performed with a roadliner truck mounted striping machine. Where the configuration or location of a traffic stripe is such that the use of a roadliner truck mounted striping machine is unsuitable, traffic striping and glass spheres may be applied by other methods and equipment approved by the Engineer.

Newly painted traffic striping shall be protected from damage by public traffic or other causes until the paint is thoroughly dry. Any newly painted traffic striping which are damaged as a result of the construction, including wheel markings by public traffic and the

construction equipment, shall be repainted by the Contractor and any associated removals shall be performed as called for in these Special Provisions.

The contract price paid per linear foot for Paint Traffic Stripe (2 Coats) shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in painting traffic stripe (regardless of the number, widths, and types of individual stripes involved in each traffic stripe) including any necessary cat tracks, dribble lines any layout work, complete in place as shown on the plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer.

2.12 Pavement Markers

Pavement markers shall conform to the provisions in Section 85, "Pavement Markers" of the Standard Specifications and these Special Provisions.

Pavement markers shall be placed to the line established by the Engineer. All additional work necessary to establish satisfactory lines for markers shall be performed by the Contractor.

Pavement markers shall be installed where indicated on the plans in accordance with the indicated striping detail. Refer to Standard Plans A20-A through A20-D for striping and markings details.

Markers and adhesive removal shall be performed by a method approved by the Engineer. Any pavement scarring resulting from the markers removal shall be repaired to the satisfaction of the Engineer.

Payment for furnishing and placing Pavement Markers shall be considered as included in the contract bid prices paid for the various items of striping work, and no additional compensation will be allowed therefor.

2.13 Roadside Signs (Install/Relocate)

Roadside signs (install/relocate) shall conform to the provisions in Section 56-2, "Roadside Signs" of the Standard Specifications, and in accordance with Standard Plans RS2 and as directed by the Engineer.

Roadside signs shall be installed at the locations shown on the construction plans or where directed by the Engineer.

Roadside signs furnished by the Contractor shall be of the standard size specified in the State of California Department of Transportation Sign Specification Sheets, unless otherwise indicated on the construction plans.

Sheeting shall be guaranteed against defects for a period of ten years from the-date of fabrication.

The base metal shall be new aluminum, 0.08 gauge, of alloys 6061- T6 or 5052-H38 conforming to the requirements of ASTM Designation B209.

Any reflective sheeting supplied as a part of this contract, whether as a legend or background, shall be FHWA FP-85 Type IIA or AASHTO M268 Type III.

Reflective sheeting shall be applied to the sign by a method approved by the manufacturer of the sheeting and shall produce a durable bond equal to or greater than the strength of the reflective sheeting. No air pockets or bubbles shall exist between the sheeting and aluminum backing.

The reflective material and screening inks or overlay film shall be graffiti proof. The graffiti proofing method shall be supplied by and/or approved by the sheeting manufacturer. Neither the color nor the reflective intensity of the finished sign shall be significantly diminished by the use of graffiti remover when used in a manner approved by the Transportation Department in conjunction with the sheeting manufacturer. Any signs graffitied by over the counter spray paint or marking pens, which fail to be restored, shall be replaced by the sign sheeting manufacturer.

All letters and numerals shall be in accordance with the "Standard Alphabet of Highway Signs" as used by the State of California, Department of Transportation.

All signs shall be installed using hex head bolts, washers, nuts and jam nuts in accordance with Standard Plans RS2 or as directed by the Engineer.

2.14 Lighting

The street lighting system shall be constructed in accordance with the current edition of the National Electric Code, the standards and specifications of the Imperial Irrigation District, the electrical plans as prepared by the Imperial Irrigation District, which are included in the plan set issued to plan holders, and as directed by the Engineer.

The standards and specifications of the Imperial Irrigation District, entitled "Developer Energy Planning Guide" and "Electrical Service and Metering Equipment Guide" will be posted on the County of Riverside Transportation Department's public works bidding website: http://www.tlma.co-riverside.ca.us/trans/con_bid_advertisements.html) during the bid period.

These documents, and additional information are also available at the Imperial Irrigation District's website, <http://iid.com/Energv/NewConstruction>. The contractor shall provide necessary coordination with the Imperial Irrigation District for all work associated with the street lighting system.

The Contractor shall furnish and install all conduits, conductors, trenching, trench backfill, street lighting foundations, transformer foundations, conduit and pull ropes between transformer pads and power poles, including sweeps and 10 feet of riser conduit, street light standards, bulbs, and luminaries, and shall perform all other work and furnish all other materials required for the installation of the street lighting system, complete and in-place, except for the specific tasks that will be performed by the Imperial Irrigation District, as listed below.

The Imperial Irrigation District, as owner of the electrical system, will furnish and install transformers, furnish and connect conductors between transformers and primary electric conductors, install risers on power poles, and will make final connections of street lighting conductors to transformers. Imperial Irrigation District will remove existing street lights after installation, and energization of the new street lighting system.

The Contractor shall also be responsible for obtaining County encroachment permit for lighting related construction, if needed.

2.15 Obstructions

Attention is directed to Sections 8-1.10, "Utility and Non-Highway Facilities", and 15, "Existing Highway Facilities" of the Standard Specifications and these Special Provisions.

Existing utility and privately owned facilities shall be protected in accordance with Section 7-1.11, "Preservation of Property" and these Special Provisions. The Contractor is also responsible to protect those facilities that are to be relocated by others prior to or during construction, and shall protect those facilities in both their existing and their ultimate locations. The Contractor shall cooperate with owners and their Contractors of utility and privately owned facilities, for the relocation of said facilities, in accordance with Section 7-1.14, "Cooperation" of the Standard Specifications.

All water valves and covers, gas valves and covers, sewer manholes, survey monuments, survey markers and any other utility appurtenances shall be protected in place.

The existing water meters, water boxes, gas meters, and fire hydrants behind the proposed back of sidewalk shall be protected in place unless otherwise directed by the Engineer. Contractor will be required to make adjustments of the existing water meter boxes which are not in the plane of final grade. Adjustment of water meter boxes which exist within 4 inches of the final grade will be considered as minor adjustment. The work of adjusting meter boxes to grade shall be done without interruption of water service. Payment for adjustment other than minor adjustment of meter boxes to grade shall be paid for Each.

The Contractor's attention is directed to the existence of certain underground facilities that may require special precautions be taken by the Contractor to protect the health, safety and welfare of workmen and the public. Facilities requiring special precautions include, but are not limited to: conductors of petroleum products, oxygen, chlorine, and toxic or flammable gases; natural gas in pipe lines greater than 6 inches in diameter or pipe lines operating at pressures greater than 60 psi (gage); underground electric supply system conductors or cables either directly buried or in duct or conduit which do not have concentric neutral conductors or other effectively grounded metal shields or sheaths; and underground electrical conductors with potential to ground of more than 300 volts. The Contractor shall notify the Engineer at least twenty-four hours prior to performing any work in the vicinity of such facilities.

Attention is directed to the requirements of Government Code Sections 4216-4216.9 pertaining to existing utility facilities.

The Contractor shall assume that every house, building and lot within the project limits has utility service pipes and conductors (laterals), and that utility main and trunk facilities exist within the project limits. The Contractor shall determine if it is warranted to determine the exact location of these utility service laterals and existing main lines, unless directed by the Engineer to pot-hole at specific locations, or as otherwise required herein. The Contractor will not be directly reimbursed for determining the exact location of the utility main lines or services laterals but shall include any compensation for this work in the contract price paid for the various items of work. Any damage to existing main lines or service laterals for which pot-holing was not performed shall be considered damage due to not using reasonable care and the damage shall be repaired at the Contractor's expense.

The Contractor shall conduct his operations with the assumption that underground utility facilities exist within the project limits. The Contractor shall exercise caution and best construction practices for safety and for protection of underground facilities. The approximate locations of underground utility facilities, as shown on the plans, are based on information provided by the respective owners, listed below. The Contractor shall also utilize the markings of the regional notification center (Underground Service Alert), and above-ground utility appurtenances to determine the existence and approximate location of underground utilities.

No excavation shall be made within 4 feet of any underground utilities, as shown on the plans and/or marked by Underground Service Alert, unless and until such utilities have been positively located as to horizontal and vertical position. This requirement applies to all underground electric, natural gas, toxic or flammable gas, chlorine, oxygen or petroleum facilities.

Forty-eight hours prior to beginning construction, the Contractor shall notify the following agencies:

Underground Service Alert	800-227-2600
Coachella Valley Water District	760-398-2651
Imperial Irrigation District	760-398-5825
Southern California Gas Company	909-335-7561
Time Warner Cable	909-975-3402
Verizon Communications	951-925-5319

Full compensation for all costs, including labor, equipment, materials and incidentals, required to comply with the requirements of this section above, including protection of water valves and covers, gas valves and covers, sewer manholes, survey monuments, survey markers and any other utility appurtenances, and minor adjustment of water meter boxes shall be considered as included in the various items of work, and no additional compensation will be allowed therefor.

Adjustments to Grade for Obstructions

The Contractor shall adjust to finish grade any valve covers encountered within the project limits, as required, for those utility valves that are provided with slip cans and are adjustable without the replacement of parts or the removal of concrete collars. In cases where the owning utility company insists upon upgrades in the standards, or when additional parts or

the removal of concrete collars are required for the adjustment, said adjustment will be the responsibility of the owning utility company. Communication and coordination with the owning utility company shall be the responsibility of the contractor.

For public safety, traffic shall not be allowed on temporary or permanent pavement until all manholes are either adjusted to grade or otherwise protected, as approved by the Engineer.

The Contractor shall adjust to grade manholes and valves when and as necessary for the protection of the traveling public during construction, and shall coordinate all work on said facilities with the owning utility companies. This requirement is intended for traffic that is to be allowed on temporary surfaces during the course of construction. Final adjustment to grade will be the responsibility of the owning utility company, except as provided herein.

Said work shall be performed in accordance with Section 15-2.05A, "Frames, Covers, Grates, and Manholes" of the Standard Specifications. Full compensation for adjustment of valve covers, including initial lowering of valves and manholes when required, shall be considered as included in the contract price paid for asphalt concrete. Communication and coordination with the owning utility company shall be the responsibility of the contractor.

Unless otherwise provided herein, the owning utility companies will not lower their surface utilities (manholes and valve covers) for the convenience of the Contractor's grading, grinding and/or paving operations. Surface facilities shall be protected in-place. However, if the Contractor desires to lower such surface facilities for his convenience to facilitate construction, the following shall apply:

1. Contractor shall coordinate all work with the utility owner.
2. Contractor shall be responsible for all costs and shall be responsible for any damage to the owner's facilities.
3. Contractor shall, after removing grade rings and covers, arrange for pickup by, or delivery to, the owner's yard. Any and all concrete collars removed by the Contractor shall become the property of the Contractor, and shall be disposed of as specified elsewhere in these special provisions.
4. The Contractor is advised that he is responsible for ensuring that construction materials do not enter the utility owner's facilities. The Contractor shall install a traffic bearing steel plate for this purpose. It is recommended that the Contractor request the utility owner to provide such steel plates.
5. The Contractor shall notify the utility owner, upon completion of the Contractor's work, when the utility owner may move in to make the final adjustments to grade.

Full compensation for initial lowering of surface utilities facilities shall be considered as included in the contract price paid for asphalt concrete, or applicable items of work in the event that there is no asphalt concrete bid item, and no additional compensation will be allowed therefor.

2.16 Force Account

General

1.1 Description of Work

The work to be performed in accordance with this section includes additional work that is outside the general scope of the proposed project. The work to be performed shall be specifically requested in writing by the OWNER or the ENGINEER. As the project is completed, it is anticipated that the OWNER may request additional work to be performed that currently is not a part of this Contract and it is the intent that the requested work shall be performed in accordance with this section.

Materials

2.1 General

Any materials utilized under this Section shall conform specifically to the appropriate Materials Section of the Standard Specifications and Special Provisions unless the OWNER specifically requests in writing a deviation from the Specifications. If the materials are not covered by an appropriate Specification of this document, then the OWNER will provide a written specification for the materials requested.

Execution

3.1 Workmanship

Furnish all materials, equipment and labor required to complete the work. All workmanship shall meet or exceed the applicable section(s) of the Standard Specifications and Special Provisions included in the contract documents or any supplemental specifications that may be provided. Perform work in accordance with the contract documents and Plans or in accordance with any supplemental plans that may be provided by the OWNER.

Measurement and Payment

4.1 Measurement

The method of measurement shall be in accordance with the applicable section(s) of the Standard Specifications and Special Provisions or as included in specific written instructions from the OWNER or the ENGINEER.

4.2 Payment

Payment for work performed under this section shall be made for those items specifically requested in writing by the OWNER. The value of any work performed in this Section shall be determined by one or more of the following methods in the order of precedence listed below.

- a. Unit prices previously approved.
- b. An agreed lump sum.
- c. The actual cost for labor, materials, supplies, equipment and other services necessary to complete the work. In addition, there shall be added an amount to be agreed upon but not to exceed fifteen (15) percent of the actual cost of the work to cover the cost of general overhead and profit.

The amount specified for Force Account in the Bid Schedule is an estimate that is provided so each potential bidder has an equal opportunity in the bidding. The amount does not in any way represent what work, if any, may be requested or the quantity or value of the work. The **CONTRACTOR** shall only be compensated for the actual work requested and performed. A final Change Order will be issued to reflect the amount of work actually completed to adjust the final contract amount.

3.0 Bid Item Descriptions

It shall be understood that bid item descriptions shall be constructed as shown on the Plans and/or specified by these Specifications. Payment will be made at the contract bid price for work complete in place and shall be the full compensation for furnishing all labor, materials, tools, equipment that is necessary to perform and complete the bid item work and all incidental appurtenant work as shown on the plans, as specified in the Specifications and as directed by the Engineer. The bid item descriptions shall not be considered specifications on how the work is to be performed.

Bid Item 1 - Mobilization

The contractor mobilization shall conform to the provisions in Section 11 "Mobilization" of the State Standard Specifications and Special Provisions 2.1.

Mobilization shall be measured and paid for on a Lump Sum basis as shown on the Bid Schedule.

Bid Item 2 – Water Pollution Control

Water Pollution Control shall conform to the Section 7 "Water Pollution" of the State Standard Specifications and section 2.2 of the Special Provisions.

Payment for implementing erosion control measures will be paid for on a lump sum basis for Water Pollution Control and shall include full compensation for the work performed, including developing, preparing, obtaining approval of, revising and amending the SWPPP, and installing, constructing, maintaining, removing and disposing of BMPs as shown in the SWPPP, as specified in the Caltrans Handbooks and Sample Contractor's Water Quality SAPs, General Permit and these Special Provisions, and as directed by the Engineer.

Bid Item 3 – Traffic Control System

Traffic Control System shall conform to the Section 7 and Section 12 of the State Standard Specifications and section 2.3 of the Special Provisions.

Full compensation, except as otherwise provided herein, for conforming to the requirements of this specifications, including furnishing, installing and maintaining all traffic control devices shown on the construction staging and traffic control plans, including construction area signs, channelizers, portable changeable message signs, temporary pavement markers, temporary traffic stripes, shall be considered as included in the contract lump sum price paid for Traffic Control System, and no additional compensation will be allowed therefor.

Bid Item 4 - Clearing and Grubbing (Including Trimming of Trees and Bushes)

The contractor shall provide clearing and grubbing including trimming of trees and bushes and shall conform to the provisions in Section 16 of the State Standard Specifications and Special Provisions 2.4.

Trimming of trees and bushes shall be at the direction and satisfaction of the Engineer or his appointed designee.

Full compensation, except as otherwise provided herein, for conforming to the requirements of this specifications shall be paid for on a lump sum basis and no additional compensation will be allowed therefor.

Bid Item 5 - Minor Concrete (Curb and Gutter) Type A-6

The contractor shall construct minor concrete curb and gutter type A-6 and shall conform to the provisions in Section 73 of the State Standard Specifications and Special Provision 2.9.

Base material and 6 mil plastic sheeting for Curb and Gutter construction is included in this bid item.

The Contract unit price paid per Linear Foot for Minor Concrete (Curb and Gutter) Type A-6 as shown on Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 6 - Asphalt Concrete Type A

The contractor shall construct asphalt concrete type A and shall conform to the provisions in Section 39 of the State Standard Specifications and Special Provisions 2.7.

The Contract unit price paid per Ton for Asphalt Concrete Type A as shown on the Bid Schedule shall include full compensation or furnishing all labor, materials, tools, equipment, and doing all work involved in asphalt concrete type A including surface preparation, distributing, spreading and rolling as shown on the plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 7 - Class 2 Aggregate Base

The contractor shall construct class 2 aggregate base and shall conform to the provisions in Section 26 of the State Standard Specifications and Special Provision 2.8.

The Contract unit price paid per Cubic Yard for Class 2 Aggregate Base as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in class 2 aggregate base including subgrade preparation, depositing, spreading and compaction as shown on the plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 8 - Asphalt Concrete Pavement Overlay (.17' Depth Minimum.)

The contractor shall provide asphalt concrete pavement overlay and shall conform to the provisions of Section 302-1, entitled "Cold Milling Existing Pavement," of the Standard Specifications for Public Works Construction.

The Contract unit price paid per Square Yard for Asphalt Concrete Pavement Overlay (.17' Depth minimum) as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in asphalt concrete overlay including surfacing and disposing of milled material, asphalt concrete pavement overlay at the locations shown on plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 9 - Construct 50' Header Grind

The contractor shall provide a 50' header grind and shall conform to the provisions of Section 302-1, entitled "Cold Milling Existing Pavement," of the Standard Specifications for Public Works Construction.

The Contract unit price paid per Square Foot for Construct 50' Header Grind as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in construct 50' header grind including surfacing and disposing of milled material, asphalt concrete pavement overlay at the locations shown on plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 10 - Minor Concrete Sidewalk (Construct 6" Thick Sidewalk)

The contractor shall construct minor concrete sidewalk and shall conform to the provisions in Section 73 of the State Standard Specifications and Special Provisions 2.9.

Base material and 6 mil plastic sheeting for Sidewalk construction is included in this bid item.

The Contract unit price paid per Cubic Yard for Minor Concrete Sidewalk (Construct 6" Thick Sidewalk) as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 11 - Minor Concrete (Curb Ramp) (CRS 403) (Case A)

The contractor shall construct minor concrete curb ramp per County of Riverside Standard Drawing (CRS) 403, Case A and shall conform to the provisions in Section 73 of the State Standard Specifications, Riverside County Ordinance 461 Road Improvement Specifications, and Special Provisions 2.9.

Base material and 6 mil plastic sheeting for Curb Ramp construction is included in this bid item.

The Contract unit price paid per Each for Minor Concrete (Curb Ramp) (CRS 403) (Case A) as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as

specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 12 - Minor Concrete (Curb Ramp) (CRS 403) (Case B)

The contractor shall construct minor concrete curb ramp per County of Riverside Standard Drawing (CRS) 403, Case B and shall conform to the provisions in Section 73 of the State Standard Specifications and Riverside County Ordinance 461 Specifications, and Special Provisions 2.9.

Base material and 6 mil plastic sheeting for Curb Ramp construction is included in this bid item.

The Contract unit price paid per Each for Minor Concrete (Curb Ramp) (CRS 403) (Case B) as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 13 - Minor Concrete (Curb Ramp) (CRS 403) (Case C)

The contractor shall construct minor concrete curb ramp per County of Riverside Standard Drawing (CRS) 403, Case C and shall conform to the provisions in Section 73 of the State Standard Specifications and Riverside County Ordinance 461 Specifications, and Special Provisions 2.9.

Base material and 6 mil plastic sheeting for Curb Ramp construction is included in this bid item.

The Contract unit price paid per Each for Minor Concrete (Curb Ramp) (CRS 403) (Case C) as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 14 - Minor Concrete (Driveway Approach) (CRS 207)

The contractor shall construct minor concrete (driveway approach) per County of Riverside Standard Drawing (CRS) 207 and shall conform to the provisions in Section 73 of the State Standard Specifications and Riverside County Ordinance 461, County Roadway Improvement Standards and Specifications, and Special Provisions section 2.9.

Base material and 6 mil plastic sheeting for Driveway Approach construction shall be included in this bid item.

The width (W) of the Driveway Approach as shown on the plans shall be measured in a horizontal plane along the length of the 1" curb face minus 4 feet.

Included in this bid item are all the tools, equipment, materials and work necessary to construct, in place, a tie-in of the existing driveway to join the newly constructed driveway approach. The driveway tie-in shall be the same width (W) as the adjacent driveway

approach and shall extend from the back of the new driveway approach, at a grade of 12 per cent (maximum), the necessary distance to join the existing driveway. The driveway tie-in shall be constructed of the same material as that of the existing driveway. PCC driveway tie-in shall be a minimum of 5 inches thick and considered as minor concrete work and AC driveway tie-in shall be a minimum of 3 inches thick and considered as minor AC pavement work. The driveway tie-in for existing driveways which are other than PCC or AC shall be constructed of compacted crushed aggregate base a minimum of 6 inches thick.

The Contract unit price paid per Each for Minor Concrete (Driveway Approach) (CRS 207) shall be as shown on the Bid Schedule and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 15 - Minor Concrete (Driveway Approach) (CRS 213)

The contractor shall construct minor concrete (driveway approach) per County of Riverside Standard Drawing (CRS) 213 and shall conform to the provisions in Section 73 of the State Standard Specifications and Riverside County Ordinance 461 County Roadway Improvement Standards and Specifications, and Special Provisions section 2.9.

Base material and 6 mil plastic sheeting for Driveway Approach construction shall be included in this bid item.

The width (W) of the Driveway Approach as shown on the plans shall be measured in a horizontal plane along the length of the 1" curb face minus 4 feet.

Included in this bid item are all the tools, equipment, materials and work necessary to construct, in place, a tie-in of the existing driveway to join the newly constructed driveway approach. The driveway tie-in shall be the same width (W) as the adjacent driveway approach and shall extend from the back of the new driveway approach, at a grade of 12 per cent (maximum), the necessary distance to join the existing driveway. The driveway tie-in shall be constructed of the same material as that of the existing driveway. PCC driveway tie-in shall be a minimum of 5 inches thick and considered as minor concrete work and AC driveway tie-in shall be a minimum of 3 inches thick and considered as minor AC pavement work. The driveway tie-in for existing driveways which are other than PCC or AC shall be constructed of compacted crushed aggregate base a minimum of 6 inches thick.

The Contract unit price paid per Each for Minor Concrete (Driveway Approach) (CRS 213) shall be as shown on the Bid Schedule and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 16 - Minor Concrete (Alley Apron) (CRS 500)

The contractor shall construct minor concrete (alley apron) per County of Riverside Standard Drawing (CRS) 500 and shall conform to the provisions in Section 73 of the State Standard Specifications and Riverside County Ordinance 461 County Roadway Improvement Standards and Specifications, and Special Provisions 2.9.

Base material and 6 mil plastic sheeting for Alley Apron construction shall be included in this bid item.

The Contract unit price paid per Each for Minor Concrete (Alley Apron) (CRS 500) shall be as shown on the Bid Schedule and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in minor concrete alley apron including alley tie-in as the locations shown on plans and finishing driveway, as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 17 - Minor Concrete (Cross Gutter) (CRS 209)

The contractor shall construct minor concrete cross gutter per County of Riverside Standard Drawing (CRS) 209 and shall conform to the provisions in Section 73 of the State Standard Specifications and Riverside County Ordinance 461 Specifications, and Special Provisions 2.9.

Base material and 6 mil plastic sheeting for Cross Gutter construction is included in this bid item.

The Contract unit price paid per Square Foot for Minor Concrete (Cross Gutter) (CRS 209) as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 18 - Modify Curb Ramp and Install Detectable Warning Surface

The contractor shall modify curb ramp and install detectable warning surface per County of Riverside Standard Drawing (CRS) 403, and shall conform to the provisions in Section 73 of the State Standard Specifications and Riverside County Ordinance 461 Specifications, and Special Provisions 2.9.

Detectable warning surface shall be ADA compliant.

The Contract unit price paid per Each to Modify Curb Ramp and Install Detectable Warning Surface as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 19 - Modify Sidewalk and Install Detectable Warning Surface

The contractor shall modify sidewalk and install detectable warning surface, and shall conform to the provisions in Section 73 of the State Standard Specifications and Riverside County Ordinance 461 Specifications, and Special Provisions 2.9.

Detectable warning surface shall be ADA compliant.

The Contract unit price paid per Each to Modify Sidewalk and Install Detectable Warning Surface as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 20 - Adjust Sewer and Utility Manhole to Final Grade

The contractor shall adjust sewer and utility manhole to final grade and shall conform to the provisions in Section 15 of the State Standard Specifications, and Special Provisions 2.15.

The Contract unit price paid per Each to Adjust Sewer and Utility Manhole to Final Grade as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 21 – Adjust Vault/Valve/Meter/Pedestal/Fire Hydrant to Final Grade

The contractor shall adjust vault, valve, meter, pedestal, fire hydrant to final grade and shall conform to the provisions in Section 15 of the State Standard Specifications and, Special Provisions 2.15.

The Contract unit price paid per Each to Adjust Vault, Valve, Meter, Pedestal, Fire Hydrant to Final Grade as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 22 - Reset Existing Barb Wire Fence and Post

The contractor shall reset existing barb wire fence and shall conform to the provisions in Section 80 of the State Standard Specifications and these Special Provisions.

The Contractor shall reset the existing barb wire fence and post after rough grading has ended. The Contractor shall coordinate work prior to final fence placement with the Engineer and adjacent property owner.

The Contract unit price paid per Linear Foot to Reset Existing Barb Wire Fence and Post as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 23 - Restore Existing Landscaping

The contractor shall restore existing landscaping and shall conform to the provisions in Section 308 of the Standard Specifications for Public Work Construction, and these Special Provisions.

The Contractor shall restore existing trees, shrub planting, and decorative rocks. The restoration work will be coordinated with the Engineer and the adjacent property owners.

The Contract unit price paid per Linear Foot to Restore Existing Landscaping as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 24 – Relocate/Replace Existing Chain Link Fence in Kind

The contractor shall relocate/replace existing chain link fence in kind at the locations shown on plan and shall conform to the provisions in Section 80-4 of the State Standard Specifications.

The Contract unit price paid per Linear Foot to Relocate/Replace Existing Chain Link Fence in Kind at the locations shown on the plan and on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary to replace existing chain link fence in kind as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 25 - Relocate and/or Modify Existing Mail Box

The Contractor will be responsible for the relocation and/or modification of the existing mail boxes as shown on the plans or at the direction of the Engineer or his appointed designee. It is the responsibility of the Contractor to temporarily relocate mail boxes for the convenience of construction operations, but shall remain upright, visible, and readily accessible by residents and postal carriers at all times during construction operations to ensure continuous mail delivery. Mail boxes shall not be located in the roadway at any time.

The method used by the Contractor for the temporary relocation and/or modification of existing mail boxes shall be approved by the Engineer. Existing mail boxes shown on the Plans to be removed shall not be removed prior to the installation of new mail boxes. Any existing or new mail boxes that are damaged, lost, or stolen during construction operations shall be repaired or replaced at the Contractor's expense.

The Contract unit price paid per Each to Relocate and/or Modify Existing Mail Box as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 26 - Relocate Vault/Valve/Pedestal

The contractor shall relocate vault, valve, pedestal and shall conform to the provisions in Section 15 of the State Standard Specifications, and these Special Provisions.

The relocation of vault, valves, meters, pedestals shall be at the direction and satisfaction of the Engineer or his appointed designee. Any additional expenses incurred through error,

accident or failure of relocating said existing items shall be paid by the contractor at their own expense.

The Contract unit price paid per Each to Relocate Vault, Valve, Pedestal as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 27 - Relocate Existing Sign Structure

The contractor shall relocate existing sign structure and shall conform to the provisions in Section 56 of the State Standard Specifications, and these Special Provisions.

The Contractor will coordinate with the Engineer and the property owner prior to final placement of the relocated sign structure. The relocated sign structure shall include all appurtenant lighting equipment and shall include a new foundation. Any additional expenses incurred through error, accident or failure of relocating said existing items shall be paid by the contractor at their own expense.

The Contract unit price paid per Each to Relocate Existing Sign Structure as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 28 - Remove Existing Curb and Gutter

The Contractor will be responsible for the removal of the existing curb and gutter as shown on the plans or at the direction of the Engineer or his appointed designee. It is the responsibility of the Contractor to see that any and all existing utilities are protected during the removal process. Any additional expenses incurred through error, accident or failure to protect said existing items as previously noted shall be restored and/or replaced by the contractor at their own expense. The removed curb and gutter will become the property of the contractor and shall be disposed off from the project site.

The Contract unit price paid per Linear Foot to Remove Existing Curb and Gutter as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 29 - Remove Existing Median Type "D" Curb

The Contractor will be responsible for the removal of the existing median type "d" curb as shown on the plans or at the direction of the Engineer or his appointed designee. It is the responsibility of the Contractor to see that any and all existing utilities are protected during the removal process. Any additional expenses incurred through error, accident or failure to protect said existing items as previously noted shall be restored and/or replaced by the

contractor at their own expense. The removed median type "d" curb will become the property of the contractor and shall be disposed off from the project site.

Removal of the existing median type "d" curb shall include parkway excavation. Subgrade to be compacted set for new aggregate base and asphalt concrete.

The Contract unit price paid per Linear Foot to Remove Existing Median Type "D" Curb as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 30 - Remove Existing Concrete Block Wall

The Contractor will be responsible for the removal of the existing concrete block wall as shown on the plans or at the direction of the Engineer or his appointed designee. It is the responsibility of the Contractor to see that any and all existing utilities are protected during the removal process. Any additional expenses incurred through error, accident or failure to protect said existing items as previously noted shall be restored and/or replaced by the contractor at their own expense. The removed concrete block wall will become the property of the contractor and shall be disposed off from the project site.

The Contract unit price paid per Linear Foot to Remove Existing Concrete Block Wall as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 31 - Remove Existing Trees

The Contractor will be responsible for the removal of existing trees and stumps to 18" below surface as shown on the plans or at the direction of the Engineer or his appointed designee. It is the responsibility of the Contractor to see that any and all existing utilities are protected during the removal process. Any additional expenses incurred through error, accident or failure to protect said existing items as previously noted shall be restored and/or replaced by the contractor at their own expense. The removed trees will become the property of the contractor and shall be disposed off from the project site.

The Contract unit price paid per Each to Remove Existing Trees as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 32 – Paint 8" Traffic Stripe

The contractor shall install an 8" traffic stripe and shall conform to the provisions in Section 84 of the State Standard Specifications, and Special Provisions 2.11.

The Contract unit price paid per Linear Foot for 8" Traffic Stripe as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee and no additional compensation will be allowed therefor.

Bid Item 33 – Paint 4" Traffic Stripe

The contractor shall install a 4" traffic stripe and shall conform to the provisions in Section 84 of the State Standard Specifications, and Special Provisions 2.11.

The Contract unit price paid per Linear Foot for 4" Traffic Stripe as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee and no additional compensation will be allowed therefor.

Bid Item 34 - Paint 4" Traffic Stripe (with RPM's)

The contractor shall install a 4" traffic stripe with retroreflective pavement markers and shall conform to the provisions in Section 84 and Section 85 of the State Standard Specifications, and Special Provisions 2.11 and 2.12.

The Contract unit price paid per Linear Foot for 4" Traffic Stripe (with RPM's) as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee and no additional compensation will be allowed therefor.

Bid Item 35 - Thermoplastic Crosswalk and Pavement Markings

The contractor shall install thermoplastic crosswalk and pavement markings and shall conform to the provisions in Section 84 of the State Standard Specifications, and Special Provisions 2.10.

The Contract unit price paid per Square Foot for Thermoplastic Crosswalk and Pavement Markings as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee and no additional compensation will be allowed therefor.

Bid Item 36 – Paint Red Curb

Paint Red Curb shall conform to the provisions in Section 84 of the State Standard Specifications, and Special Provisions 2.11.

The Contract unit price paid per Linear Foot to Paint Red Curb as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard

Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee and no additional compensation will be allowed therefor.

Bid Item 37 - Install Roadside Sign and Post

The contractor shall install roadside sign and post furthermore shall conform to the provisions in Section 56 of the State Standard Specifications, and Special Provisions 2.13.

The Contract unit price paid per Each to Install Roadside Sign and Post as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee and no additional compensation will be allowed therefor.

Bid Item 38 - Install Roadside Sign Panel

The contractor shall install roadside sign panel and shall conform to the provisions in Section 56 of the State Standard Specifications, and Special Provisions 2.13.

The Contract unit price paid per Each to Install Roadside Sign Panel as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee and no additional compensation will be allowed therefor.

Bid Item 39 - Relocate Existing Roadside Sign and Install New Post

The contractor shall relocate existing roadside sign and install new post and shall conform to the provisions in Section 56 of the State Standard Specifications, and Special Provisions 2.13.

The Contract unit price paid per Each to Relocate Existing Roadside Sign and Install New Post shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee and no additional compensation will be allowed therefor.

Bid Item 40 - Remove Existing Roadside Sign and Post

The Contractor will be responsible to remove existing roadside sign and post as shown on the plans or at the direction of the Engineer or his appointed designee. It is the responsibility of the Contractor to see that any and all existing utilities are protected during the removal process. Any additional expenses incurred through error, accident or failure to protect said existing items as previously noted shall be restored and/or replaced by the contractor at their own expense.

The Contract unit price paid per Each to Remove Existing Roadside Sign and Post as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work necessary as specified in the

Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee and no additional compensation will be allowed therefor.

Bid Item 41 - Lighting

The street lighting system shall be constructed in accordance with Special Provisions Section 2.14 and the current edition of the National Electric Code, Imperial Irrigation District Developers Planning Guide, the electrical plans as prepared by the Imperial Irrigation District, which are included in the plan set issued to plan holders, and as directed by the Engineer.

The contractor shall install 100 watt or 200 watt high pressure sodium type street light as shown on plans per County of Riverside Standard Drawing 1000 and Standard Drawing 1001, and shall conform to the provisions in Section 86 of the State Standard Specifications and Riverside County Ordinance 461 Specifications section 22.

Full compensation for the installation of the Street Lighting System shall be considered as included in the Lump Sum price paid for Lighting, including all labor, materials, equipment, personnel and incidentals, and including all necessary coordination with the Imperial Irrigation District.

Bid Item 42 – Remove 6” Dia. Abandoned Water Pipe

The contractor shall remove the 6” dia. abandoned water pipe and shall conform to the provisions in Section 19 of the State Standard Specifications and these Special Provisions.

The Contractor will remove the existing 6” diameter abandoned water pipe which is 5 feet under ground on Main Street between Church Street and Date Street. The Contractor shall provide a trench to safely remove the existing underground abandoned water pipe. The Contractor shall backfill and compact the excavated area once the pipe is removed to the satisfaction of the Engineer. The Contractor shall coordinate with CVWD utility agency and the field Engineer prior to commencement of work.

The Contract unit price paid per Linear Foot to Remove 6” Dia. Abandoned Water Pipe as shown on the Bid Schedule shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in abandon water pipe including excavation and compacting the material complete in place as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer or his appointed designee.

Bid Item 43 - Miscellaneous Directed Work

Miscellaneous directed work shall consist of necessary work that is not included in other contract bid items, as determined by the Engineer. Miscellaneous directed work shall be performed as directed by the Engineer and in accordance with the applicable standards and specifications. Payment for implementing miscellaneous directed work and if necessary to obtain utility agency permits will be paid for on a force account basis, in accordance with Section 9-1.03 of the Standard Specifications, and section 2.16 of the Special Provisions, up to the fixed bid price, for the work performed.



38000 Monroe Street
Indio, Ca. 92203

DO NOT OPEN WITH REGULAR MAIL
SEALED BID FOR COUNTY OF RIVERSIDE--
THERMAL TOWN STREET IMPROVEMENT PROJECT
BIDS DUE: 6/22/11 @ 2:00 PM

County of Riverside
Clerk of the Board
4080 Lemon Street, 1st Floor
Riverside, CA 92501

SEALED BID RECEIVED
CLERK OF THE BOARD OF SUPERVISORS

RECEIVED RIVERSIDE COUNTY
CLERK/BOARD OF SUPERVISORS
2011 JUN 22 PM 4:54